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May 24, 2017

Ms. Joyce Munie, P.E.
Manager, Permit Section
Illinois Environmental Protection Agency
Bureau of Land
1021 North Grand Avenue East
Springfield, Illinois 62794

Submittal of Corrected Information
Groundwater Monitoring Report – 1st Quarter 2014
Roxana, Illinois
1191150002 – Madison County
Equilon Enterprises LLC d/b/a Shell Oil Products US
Log No. B-43R

Dear Ms. Munie:

On behalf of Shell Oil Products US (SOPUS), AECOM Technical Services, Inc. (AECOM) hereby submits the enclosed addendum to the above-referenced report (the Report).

AECOM collects a variety of samples for SOPUS as part of the work performed in connection with the above-referenced site including the samples referenced and utilized in the Report. AECOM contracts with independent laboratories to analyze the samples collected. As noted in SOPUS' initial disclosure letter and our subsequent communications, Accutest Laboratories (Accutest) issued revised laboratory analyses in response to an internal evaluation performed of its process. Please note, the majority of the corrected analyses were issued only to include a revised footnote and the numeric value of the analytical results reported remained unchanged. If any numeric values of analytical results presented in the Report were updated by Accutest, the updated results are presented as part of the information included in the Report addendum. Moreover, based upon our evaluation of the Report and the revised information received from Accutest, the conclusion(s) of the Report as originally issued are unaffected.

The information provided within and the format of this addendum is as discussed during our meeting with IEPA on March 23, 2017. This addendum includes the following information:

- IEPA LPC form
- Data Review Addendum Table (summarizing changed information)
- Revised analytical results table
- Revised laboratory reports (on CD)

If you have any questions during your review, please contact Kevin Dyer, SOPUS Senior Principal Program Manager, at kevin.dyer@shell.com (618/288-7237), or Bob Billman at bob.billman@aecom.com (314/743-4108).

Sincerely,

AECOM, on behalf of Shell Oil Products US

Robert Billman, PG
Senior Project Manager

Robert E. Mooshegian, CHMM
Senior Program Manager

Enclosures: 2 copies

cc: Kevin Dyer, SOPUS
Eric Petersen, Phillips 66
Shannon Haney, Greensfelder, Hemker & Gale P.C.
Repositories – Village Hall, Roxana Public Library, website
Project File

Illinois Environmental Protection Agency

Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

RCRA FACILITY GROUNDWATER, LEACHATE AND GAS REPORTING FORM

This form must be used as a cover sheet for the notices and reports, identified below as required by: (1) a facility's RCRA interim status closure plan; (2) the RCRA interim status regulations; or (3) a facility's RCRA permit. All reports must be submitted to the Illinois EPA's Bureau of Land Permit Section. This form is for use by Hazardous Waste facilities only. Reporting for Solid Waste facilities should be submitted on a separate form. All reports submitted to the Illinois EPA's Bureau of Land Permit Section must contain an original, plus a minimum of two copies.

Note: This form is not to be used with permit or closure plan modification requests. The facility's approved permit or closure plan will state whether the document you are submitting is required as a report or a modification request.

Facility Name: Equilon Enterprises LLC dba Shell Oil Products US

Facility Address: 900 South Central Ave., Roxana, IL 62048

Site ID #: 1191150002 Fed ID #: ILD 080 012 305

Check the appropriate heading. Only one heading may be checked for each corresponding submittal. Check the appropriate sub-heading, where applicable. Attach the original and all copies behind this form.

☐ LPC-160 Forms

Groundwater	Leachate
____ Quarterly - Enter: 1, 2, 3, or 4	____ Quarterly - Enter: 1, 2, 3, or 4
☐ Semi-Annual	☐ Semi-Annual
☐ Annual	☐ Annual
☐ Biennial	☐ Biennial

☐ Groundwater Data (without LPC-160 Forms)

____ Quarterly - Enter: 1, 2, 3, or 4 ☐ Annual ☐ Semi-Annual ☐ Biennial

☐ Well Construction Information

- ☐ Well Construction Forms, Boring Logs and/or Abandonment Forms
- ☐ Well Survey Data (e.g., Stick-up Elevation Data)

☐ Notice of Statistically Significant Evidence of Groundwater Contamination (35 Ill. Adm. Code 724.198)

☐ Notice of Exceedence of Groundwater Concentration Limit (35 Ill. Adm. Code 724.199(h))

☐ Notice of Alternate Source or Error in Sampling Analysis or Evaluation of Groundwater (35 Ill. Adm. Code 724.199(i))

☐ Gas Monitoring Reports

☑ Other (identify)

1Q14, 2Q14, 3Q14, 4Q14, 1Q15, & 2Q15 Groundwater Sampling Report Addenda - Addenda being issued due to revised laboratory reports.

Analytical Method	Sample ID	Lab Sample ID	Sample Date	Analyte	Original Result	Corrected Result	Laboratory Qualifier	Units	Laboratory Footnote	AECOM Qualifier
SW846 8260C	MW6D-ROX-011614	MC27745-1	01/16/2014	1,4-Dioxane	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW6D-ROX-011614	MC27745-1	01/16/2014	Naphthalene	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW6C-ROX-011614	MC27745-2	01/16/2014	1,4-Dioxane	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW6C-ROX-011614	MC27745-2	01/16/2014	Naphthalene	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW6B-ROX-011614	MC27745-3	01/16/2014	1,4-Dioxane	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW6B-ROX-011614	MC27745-3	01/16/2014	Naphthalene	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW6A-ROX-011614	MC27745-5	01/16/2014	1,4-Dioxane	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW6A-ROX-011614	MC27745-5	01/16/2014	Naphthalene	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW6A-ROX-011614-DUP	MC27745-6	01/16/2014	1,4-Dioxane	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW6A-ROX-011614-DUP	MC27745-6	01/16/2014	Naphthalene	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ

Analytical Method	Sample ID	Lab Sample ID	Sample Date	Analyte	Original Result	Corrected Result	Laboratory Qualifier	Units	Laboratory Footnote	AECOM Qualifier
SW846 8260C	MW3-ROX-011614	MC27745-7	01/16/2014	1,4-Dioxane	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW3-ROX-011614	MC27745-7	01/16/2014	Naphthalene	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW2-ROX-012014	MC27802-1	01/20/2014	Bromoform	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW22-ROX-012014	MC27802-2	01/20/2014	1,4-Dioxane	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW22-ROX-012014-DUP	MC27802-3	01/20/2014	1,4-Dioxane	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P56-ROX-012214	MC27828-1	01/22/2014	Methyl Tert Butyl Ether	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased high.	
SW846 8260C	P93C-ROX-012414	MC27893-2	01/24/2014	Acetone	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P93C-ROX-012414	MC27893-2	01/24/2014	2-Butanone (MEK)	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P93C-ROX-012414	MC27893-2	01/24/2014	2-Hexanone	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P93C-ROX-012414	MC27893-2	01/24/2014	Methyl Tert Butyl Ether	4.7	4.7		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased high.	J

Analytical Method	Sample ID	Lab Sample ID	Sample Date	Analyte	Original Result	Corrected Result	Laboratory Qualifier	Units	Laboratory Footnote	AECOM Qualifier
SW846 8260C	P93B-ROX-012814	MC27954-1	01/28/2014	Dichlorodifluoromethane	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P93B-ROX-012814-DUP	MC27954-2	01/28/2014	Acetone	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P93B-ROX-012814-DUP	MC27954-2	01/28/2014	2-Butanone (MEK)	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P93B-ROX-012814-DUP	MC27954-2	01/28/2014	2-Hexanone	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P93B-ROX-012814-DUP	MC27954-2	01/28/2014	1,1,1-Trichloroethane	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased high.	
SW846 8260C	P114-ROX-012814	MC27954-3	01/28/2014	Acetone	142	142		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	J
SW846 8260C	P114-ROX-012814	MC27954-3	01/28/2014	2-Butanone (MEK)	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P114-ROX-012814	MC27954-3	01/28/2014	2-Hexanone	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P114-ROX-012814	MC27954-3	01/28/2014	1,1,1-Trichloroethane	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased high.	
SW846 8260C	P93A-ROX-012914	MC27977-4	01/29/2014	Dichlorodifluoromethane	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ

Analytical Method	Sample ID	Lab Sample ID	Sample Date	Analyte	Original Result	Corrected Result	Laboratory Qualifier	Units	Laboratory Footnote	AECOM Qualifier
SW846 8260C	MW13-ROX-012914	MC27977-5	01/29/2014	Methyl Tert Butyl Ether	8.0	8.0		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased high.	J
SW846 8260C	MW4-ROX-013014	MC28017-1	01/30/2014	Carbon disulfide	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW4-ROX-013014	MC28017-1	01/30/2014	Dichlorodifluoromethane	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW4-ROX-013014	MC28017-1	01/30/2014	1,4-Dioxane	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW7-ROX-013014	MC28017-2	01/30/2014	Carbon disulfide	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW7-ROX-013014	MC28017-2	01/30/2014	Dichlorodifluoromethane	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW7-ROX-013014	MC28017-2	01/30/2014	1,4-Dioxane	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW8-ROX-013014	MC28017-3	01/30/2014	Carbon disulfide	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW8-ROX-013014	MC28017-3	01/30/2014	Dichlorodifluoromethane	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW8-ROX-013014	MC28017-3	01/30/2014	1,4-Dioxane	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW8-ROX-013014-DUP	MC28017-4	01/30/2014	Carbon disulfide	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ

Analytical Method	Sample ID	Lab Sample ID	Sample Date	Analyte	Original Result	Corrected Result	Laboratory Qualifier	Units	Laboratory Footnote	AECOM Qualifier
SW846 8260C	MW8-ROX-013014-DUP	MC28017-4	01/30/2014	Dichlorodifluoromethane	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW8-ROX-013014-DUP	MC28017-4	01/30/2014	1,4-Dioxane	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P93D-ROX-013114	MC28046-1	01/31/2014	Carbon disulfide	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P93D-ROX-013114	MC28046-1	01/31/2014	Dichlorodifluoromethane	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P93D-ROX-013114	MC28046-1	01/31/2014	1,4-Dioxane	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P59-ROX-020314	MC28118-1	02/03/2014	Bromoform	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P59-ROX-020314	MC28118-1	02/03/2014	Carbon disulfide	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P59-ROX-020314	MC28118-1	02/03/2014	Dichlorodifluoromethane	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P57-ROX-020314	MC28118-3	02/03/2014	Bromoform	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P57-ROX-020314	MC28118-3	02/03/2014	Carbon disulfide	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P57-ROX-020314	MC28118-3	02/03/2014	Dichlorodifluoromethane	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ

Analytical Method	Sample ID	Lab Sample ID	Sample Date	Analyte	Original Result	Corrected Result	Laboratory Qualifier	Units	Laboratory Footnote	AECOM Qualifier
SW846 8260C	P58-ROX-020314	MC28118-4	02/03/2014	Bromoform	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P58-ROX-020314	MC28118-4	02/03/2014	Carbon disulfide	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P58-ROX-020314	MC28118-4	02/03/2014	Dichlorodifluoromethane	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ

LABORATORY QUALIFIERS:

ND = Not detected.

AECOM QUALIFIERS:

J = The result is estimated.

UJ = Estimated nondetect.

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						VOCs																				
						Acetone[5]	Benzene	Butane[5]	2-Butanone[5]	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	4-Chlorotoluene	Cymene (p-isopropyltoluene)	1,1-Dichloroethane	1,2-Dichloropropane	trans-1,3-Dichloropropene	1,4-Dioxane	Ethylbenzene	Ethyl methacrylate
					Screening Values (mg/L)	6.3 [1]	0.005 [1]		4.2 [1]	0.35 [3]			0.7 [1]	0.005 [1]	0.1 [1]		0.0002 [2]				0.7 [2]	0.005 [2]	0.001 [2]	0.0077 [1]	0.7 [1]	
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
MW-01	MW1-ROX-042911	4/29/2011	43.41 - 58.41	38.37	NE	<0.0145 U	0.0363		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW1-ROX-072711	7/27/2011		35.77	NE	<0.005	0.0053		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW1-ROX-120511	12/5/2011		37.10	NE	<0.005 UJ	0.00097		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW1-ROX-011612	1/16/2012	48.80 - 58.80	37.75	NE	<0.005	0.0142		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW1-ROX-050112	5/1/2012		39.09	NE	<0.005	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW1-ROX-073012	7/30/2012		39.39	NE	<0.005	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW1-ROX-102612	10/26/2012		41.22	NE																					
	MW1-ROX-121712	12/17/2012		41.22	NE	<0.005 UJ	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW1-ROX-011013	1/10/2013		41.89	NE	<0.005	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW1-ROX-040913	4/9/2013		42.55	NE	<0.005	0.0004 J		<0.01	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW1-ROX-070813	7/8/2013		39.56	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW1-ROX-100313	10/3/2013		40.28	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW1-ROX-011414	1/14/2014	48.80 - 58.80	42.77	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
MW-02	MW02-ROX-051011	5/10/2011	47.19 - 62.19	39.14	NE	<0.005	1.18		<0.005	<0.005	0.0029 J	0.0012 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0027 J	<0.001	<0.002	<0.0005	<0.025	1.24	<0.005
	MW2-ROX-072711	7/27/2011		37.04	NE	<0.05	1.98		<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.02	<0.01	<0.02	<0.05	<0.05	<0.01	<0.02	<0.005	<0.25	1.76	<0.05
	MW2-ROX-072711-DUP	7/27/2011		37.04	NE	<0.05	1.79		<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.02	<0.01	<0.02	<0.05	<0.05	<0.01	<0.02	<0.005	<0.25	1.57	<0.05
	MW2-ROX-112811	11/28/2011	49.87 - 59.87	38.03	NE	<0.005	0.0216		<0.005	<0.005	0.0106	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0121	<0.001	<0.002	<0.0005	<0.025	0.503	<0.005
	MW2-ROX-011612	1/16/2012		38.89	NE	<0.025	0.0161		<0.025	<0.025	<0.025	<0.025	<0.025	<0.005	<0.005	<0.01	<0.005	<0.01	<0.025	<0.025	<0.005	<0.01	<0.0025	<0.13	0.777	<0.025
	MW2-ROX-050112	5/1/2012		40.25	NE	<0.025	0.0145		<0.025	<0.025	0.0068 J	<0.025	<0.025	<0.005	<0.005	<0.01	<0.005	<0.01	<0.025	0.008 J	<0.005	<0.01	<0.0025	<0.13	0.948	<0.025
	MW2-ROX-073012	7/30/2012		40.60	NE	<0.005	0.01		<0.005	<0.005	0.0078	0.001 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.009	<0.001	<0.002	<0.0005	<0.025	0.952	<0.005
	MW2-ROX-102612	10/26/2012		42.35	NE	<0.025 UJ	0.0142		<0.025	<0.025	<0.025	<0.025	<0.025	<0.005	<0.005	<0.01	<0.005	<0.01	0.0172 J	<0.025	<0.005	<0.01	<0.0025	<0.13	0.763	<0.025
	MW2-ROX-011113	1/11/2013		42.94	NE	<0.01	0.0192		<0.01	0.0176 J	0.0077 J	0.002 J	<0.01	<0.002	<0.002	0.0083	<0.002	<0.004	<0.01	0.0094 J	<0.002	<0.004	<0.001	<0.05	0.676	<0.01
	MW2-ROX-040913	4/9/2013		43.70	NE	<0.05	0.0174		<0.025	0.0191 J	0.0085 J	<0.025	<0.025	<0.005	<0.005	<0.01	<0.005	<0.01	<0.025	0.0101 J	<0.005	<0.01	<0.0025	<0.13	0.91	<0.025
	MW2-ROX-071113	7/11/2013		40.82	NE	<0.01 UJ	0.006		<0.005 UJ	<0.005	0.0073	0.0029 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0075	<0.001	<0.002	<0.0005		1.57	<0.005
	MW2-ROX-100813	10/8/2013		41.73	NE	<0.01	0.0139		0.0133	<0.005	0.0082	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0104	<0.001	<0.002	<0.0005	<0.025	0.942	<0.005
	MW2-ROX-012014	1/20/2014	49.87 - 59.87	44.00	NE	<0.01	0.0238		<0.005	0.0254	0.0096	0.0015 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0106	0.0043	<0.002	<0.0005	<0.025	0.426	<0.005
MW-03	MW03-ROX-051011	5/10/2011	30.98 - 45.98	24.79	NE	<0.005	0.013		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW3-ROX-080311	8/3/2011		22.72	NE	<0.005	0.00056		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW3-ROX-112911	11/29/2011	34.67 - 44.67	24.06	NE	<0.005	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW3-ROX-112911-DUP	11/29/2011		24.06	NE	<0.005	0.00052		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW3-ROX-011612	1/16/2012		24.93	NE	<0.005	0.00091		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW3-ROX-043012	4/30/2012		26.19	NE	<0.005	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW3-ROX-072712	7/27/2012		26.60	NE	<0.005 UJ	0.0089		<0.005 UJ	<0.005	<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.002 UJ	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005		<0.001	<0.005
	MW3-ROX-102512	10/25/2012		28.39	NE	<0.005 UJ	0.0017		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW3-ROX-010913	1/9/2013		29.35	NE	<0.005	0.0014		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW3-ROX-040813	4/8/2013		29.74	NE	<0.005 UJ	0.008		<0.005	<0.005	<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW3-ROX-071113	7/11/2013		26.32	NE	<0.01 UJ	0.0059		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005		<0.001	<0.005
	MW3-ROX-100813	10/8/2013		27.38	NE	<0.01	0.00057		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0025	<0.005
	MW3-ROX-011614	1/16/2014	34.67 - 44.67	29.91	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025 UJ	<0.001	<0.005

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						VOCs																				
						Acetone[5]	Benzene	Butane[5]	2-Butanone[5]	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	4-Chlorotoluene	Cymene (p-Isopropyltoluene)	1,1-Dichloroethane	1,2-Dichloropropane	trans-1,3-Dichloropropene	1,4-Dioxane	Ethylbenzene	Ethyl methacrylate
					Screening Values (mg/L)	6.3 [1]	0.005 [1]		4.2 [1]	0.35 [3]			0.7 [1]	0.005 [1]	0.1 [1]		0.0002 [2]				0.7 [2]	0.005 [2]	0.001 [2]	0.0077 [1]	0.7 [1]	
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
MW-04	MW04-ROX-051111	5/11/2011	42.63 - 57.63	36.19	NE	<0.005	0.0625		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW4-ROX-072611	7/26/2011		34.15	NE	<0.005	0.114		<0.005	<0.005	0.0058	0.0063	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0023	<0.005
	MW4-ROX-072611-DUP	7/26/2011		34.15	NE	<0.005	0.108		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0021	<0.005
	MW4-ROX-121511	12/15/2011		33.99	NE	<0.005	0.0381		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW4-ROX-011612	1/16/2012	46.06 - 56.06	36.00	NE	<0.005	0.115		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	0.0017 J
	MW4-ROX-050312	5/3/2012		37.45	NE	<0.005	0.0941		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW4-ROX-050312-DUP	5/3/2012		37.45	NE	<0.063 U	0.0933		<0.005	<0.005	<0.005	0.0012 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW4-ROX-072512	7/25/2012		37.63	NE	<0.005	0.191		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.00082 J	<0.005
	MW4-ROX-072512-Dup	7/25/2012		37.63	NE	<0.005	0.199		<0.005	0.0014 J	0.0017 J	0.002 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.00083 J	<0.005
	MW4-ROX-102912	10/29/2012		39.45	NE	<0.01 UJ	0.354		<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<0.002	<0.004	<0.002	<0.004 UJ	<0.01	<0.01	<0.002	<0.004	<0.001	<0.05	<0.002	<0.01
	MW4-ROX-011113	1/11/2013		40.20	NE	<0.005	9.04 J		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.00052 J	<0.005
	MW4-ROX-011113-DUP	1/11/2013		40.20	NE	<0.005	8.96 J		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.00056 J	<0.005
	MW4-ROX-030413	3/4/2013		40.20	NE	<0.5	21.4		<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<0.1	<0.2	<0.05	<2.5	<0.1	<0.5
	MW4-ROX-040913	4/9/2013		40.90	NE	<0.02	64.2		<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<0.002	<0.004	<0.002	<0.004	<0.01	<0.01	<0.002	<0.004	<0.001	<0.05	<0.002	<0.01
	MW4-ROX-040913-DUP	4/9/2013		40.90	NE	<0.01	72.9		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.00081 J	<0.005
	MW4-ROX-071713	7/17/2013		37.61	NE	<0.01	12.2		<0.005	<0.005	0.0016 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.001 UJ	<0.05	0.0015	<0.005
	MW4-ROX-101613	10/16/2013		38.80	NE	<0.1	1.7		<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.02	<0.01	<0.02	<0.05	<0.05	<0.01	<0.02	<0.005	<0.25	<0.01	<0.05 UJ
	MW4-ROX-013014	1/30/2014	46.06 - 56.06	41.09	NE	<0.01	2.01		<0.005	0.00058 J	<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025 UJ	0.00048 J	<0.005
MW-05	MW05-ROX-051211	5/12/2011	31.13 - 46.13	23.98	NE	<0.005 UJ	0.0055		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW5-ROX-072611	7/26/2011		22.00	NE	<0.005	0.0222		<0.005	0.0054	0.0061	0.0078	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW5-ROX-072611-DUP	7/26/2011		22.00	NE	<0.005	0.0221		<0.005	0.0054	0.0061	0.0078	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW5-ROX-112111	11/21/2011	33.97 - 43.97	23.46	NE	<0.005 UJ	0.0109		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005		<0.001	<0.005
	MW5-ROX-011712	1/17/2012		24.76	NE	<0.005	0.0442		<0.005	<0.005	<0.005	0.0057	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW5-ROX-050312	5/3/2012		25.89	NE	<0.005	0.0532		<0.005	<0.005	0.0029 J	0.0073	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0014 J	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW5-ROX-072512	7/25/2012		26.18	NE	<0.005	0.0925		<0.005	<0.005	0.0015 J	0.007	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.00099 J	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW5-ROX-102912	10/29/2012		28.16	NE	<0.005 UJ	0.0628		<0.005	<0.005	<0.005	0.0059	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW5-ROX-011113	1/11/2013		28.75	NE	<0.005	0.0072		<0.005	<0.005	0.0016 J	0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW5-ROX-040913	4/9/2013		29.41	NE	<0.005	0.0018		<0.01	<0.005	0.0018 J	0.0063	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW5-ROX-070913	7/9/2013		26.04	NE	<0.01	0.0075		<0.005	<0.005	<0.005	0.0085	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005		<0.001	<0.005
	MW5-ROX-100813	10/8/2013		26.97	NE	<0.01	0.0016		<0.005	<0.005	<0.005	0.0064	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW5-ROX-011714	1/17/2014	33.97 - 43.97	29.59	NE	<0.01	0.002		<0.005	<0.005	0.002 J	0.0064	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
MW-06A	MW6A-ROX-051611	5/16/2011	31.98 - 46.98	26.10	NE	<0.005 UJ	0.0031		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW6A-ROX-072611	7/26/2011		23.76	NE	<0.005 U	0.0032		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW6A-ROX-112111	11/21/2011	34.83 - 44.83	25.49	NE	<0.0059 UJ	0.0105 J		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005		<0.001	<0.005
	MW6A-ROX-112111-DUP	11/21/2011		25.49	NE	<0.005 UJ	0.0137 J		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005		<0.001	<0.005
	MW6A-ROX-011712	1/17/2012		26.74	NE	<0.005	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW6A-ROX-050212	5/2/2012		27.77	NE	<0.005	0.00077		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW6A-ROX-080112	8/1/2012		28.36	NE	<0.005	0.0016		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW6A-ROX-102412	10/24/2012		30.06	NE	<0.12 UJ	0.00073		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW6A-ROX-011413	1/14/2013		31.00	NE	<0.005	0.0276		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW6A-ROX-040313	4/3/2013		31.62	NE	<0.005 UJ	0.0017		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW6A-ROX-070913	7/9/2013		28.25	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005		<0.001	<0.005
	MW6A-ROX-070913-DUP	7/9/2013		28.25	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005		<0.001	<0.005
	MW6A-ROX-100713	10/7/2013		28.87	NE	<0.01 UJ	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW6A-ROX-100713-DUP	10/7/2013		28.87	NE	<0.01 UJ	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW6A-ROX-011614	1/16/2014	34.83 - 44.83	31.62	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025 UJ	<0.001	<0.005
	MW6A-ROX-011614-DUP	1/16/2014		31.62	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025 UJ	<0.001	<0.005

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						VOCs																			
						Acetone[5]	Benzene	Butane[5]	2-Butanone[5]	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	4-Chlorotoluene	Cymene (p-isopropyltoluene)	1,1-Dichloroethane	1,2-Dichloropropane	trans-1,3-Dichloropropene	1,4-Dioxane	Ethylbenzene	Ethyl methacrylate
					Screening Values (mg/L)	6.3 [1]	0.005 [1]		4.2 [1]	0.35 [3]			0.7 [1]	0.005 [1]	0.1 [1]		0.0002 [2]				0.7 [2]	0.005 [2]	0.001 [2]	0.0077 [1]	0.7 [1]	
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																			
MW-06B	MW6B-ROX-051611	5/16/2011	64.05 - 69.05	25.95	NE	<0.005 UJ	0.0033		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW6B-ROX-051611-DUP	5/16/2011		25.95	NE	<0.005 UJ	0.0033		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW6B-ROX-072311	7/23/2011		23.60	NE	<0.005 UJ	0.0022		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW6B-ROX-110311	11/3/2011		24.67	NE	<0.05	0.961		<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.02	<0.01	<0.02 UJ	<0.05	<0.05	<0.01	<0.02	<0.005	<0.25	<0.01	<0.05
	MW6B-ROX-011712	1/17/2012		26.77	NE	<0.005	0.0013		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW6B-ROX-050212	5/2/2012		27.82	NE	<0.005	0.00086		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW6B-ROX-080112	8/1/2012		28.39	NE	<0.0032 UJ	0.00045 J		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW6B-ROX-102412	10/24/2012		30.11	NE	<0.005 UJ	0.0015		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW6B-ROX-011713	1/17/2013		31.11	NE	<0.005	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW6B-ROX-040313	4/3/2013		31.68	NE	<0.005 UJ	0.00043 J		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW6B-ROX-070913	7/9/2013		28.25	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005		<0.001	<0.005
	MW6B-ROX-100713	10/7/2013		28.93	NE	<0.01 UJ	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW6B-ROX-011614	1/16/2014	64.05 - 69.05	31.67	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025 UJ	<0.001	<0.005
MW-06C	MW6C-ROX-051611	5/16/2011	84.95 - 89.95	25.76	NE	<0.005 UJ	0.0071		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW6C-ROX-072411	7/24/2011		23.43	NE	<0.005 UJ	0.0027		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW6C-ROX-110311	11/3/2011		24.47	NE	<0.005	0.0017		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW6C-ROX-011712	1/17/2012		26.50	NE	<0.005	0.0028		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW6C-ROX-050212	5/2/2012		27.62	NE	<0.005	0.0015		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW6C-ROX-080112	8/1/2012		28.15	NE	<0.003 UJ	0.00061		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW6C-ROX-102412	10/24/2012		27.85	NE	<0.005 UJ	0.00035 J		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW6C-ROX-011713	1/17/2013		30.88	NE	<0.005 UJ	<0.0005 UJ		<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.001 UJ	<0.002 UJ	<0.001 UJ	<0.002 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.002 UJ	<0.0005 UJ	<0.025 UJ	<0.001 UJ	<0.005 UJ
	MW6C-ROX-040313	4/3/2013		31.41	NE	<0.005 UJ	0.00062		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW6C-ROX-070913	7/9/2013		28.03	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005		<0.001	<0.005
	MW6C-ROX-100713	10/7/2013		28.72	NE	<0.01 UJ	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW6C-ROX-011614	1/16/2014	84.95 - 89.95	31.48	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025 UJ	<0.001	<0.005
MW-06D	MW6D-ROX-051611	5/16/2011	104.72 - 109.72	25.60	NE	<0.005 UJ	0.002		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW6D-ROX-072311	7/23/2011		23.29	NE	<0.005 UJ	0.0027		<0.005	<0.005	<0.005	<0.005	0.007	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW6D-ROX-110311	11/3/2011		24.31	NE	<0.005	0.013		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW6D-ROX-011712	1/17/2012		26.33	NE	<0.005	0.0022		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW6D-ROX-050212	5/2/2012		27.45	NE	<0.005	0.0015		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW6D-ROX-080212	8/2/2012		30.56	NE	<0.005 UJ	0.00068		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005		<0.001	<0.005
	MW6D-ROX-102412	10/24/2012		29.71	NE	<0.005 UJ	0.00055		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW6D-ROX-011713	1/17/2013		30.75	NE	<0.005 UJ	0.00053 J		<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.001 UJ	<0.002 UJ	<0.001 UJ	<0.002 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.002 UJ	<0.0005 UJ	<0.025 UJ	<0.001 UJ	<0.005 UJ
	MW6D-ROX-040313	4/3/2013		31.27	NE	<0.005 UJ	0.00055		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW6D-ROX-070913	7/9/2013		27.91	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005		<0.001	<0.005
	MW6D-ROX-100713	10/7/2013		28.58	NE	<0.01 UJ	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW6D-ROX-011614	1/16/2014	104.72 - 109.72	31.33	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025 UJ	<0.001	<0.005
MW-07	MW07-ROX-051311	5/13/2011	42.92 - 52.92	37.50	NE	<0.005 UJ	1030 J		<0.005 UJ	<0.005 UJ	0.0011 J J	0.0016 J J	<0.005 UJ	<0.001 UJ	<0.001 UJ	<0.002 UJ	<0.001 UJ	<0.002 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.002 UJ	<0.0005 UJ	<0.025 UJ	0.0494 J	<0.005 UJ
	MW07-ROX-051311D	5/13/2011		37.50	NE	<0.005	922 J		<0.005	<0.005	0.0013 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0487	<0.005
	MW7-ROX-072411	7/24/2011		35.65	NE	<25 UJ	1840		<25	<25	<25	<25	<25	<5	<5	<10	<5	<10	<25	<25	<5	<10	<2.5	<130	<5	<25
	MW-7-ROX-110211	11/2/2011		35.95	NE	<5	774		<5	<5	<5	<5	<5	<1	<1	<2	<1	<2 UJ	<5	<5	<1	<2	<0.5	<25	<1	<5
	MW7-ROX-011812	1/18/2012		38.10	NE	<0.166 U	1330 J		<0.005	0.0026 J	0.0021 J	0.003 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0727	<0.005
	MW7-ROX-011812-DUP	1/18/2012		38.10	NE	<0.146 U	1110		<0.005	0.0027 J	0.0022 J	0.0029 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0015 J	<0.001	<0.002	<0.0005	<0.025	0.0718	<0.005
	MW7-ROX-050412	5/4/2012		39.19	NE	<0.5	738		<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<0.1	<0.2	<0.05	<2.5	<0.1	<0.5
	MW7-ROX-080712	8/7/2012		39.50	NE	0.199 J	591 J		<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.02	<0.01	<0.02	<0.05	<0.05	<0.01	<0.02	<0.005	<0.25	0.0619	<0.05
	MW7-ROX-103012	10/30/2012		41.23	NE	<10 UJ	833		<10	<10	<10	<10	<10	<2	<2	<4	<2	<4 UJ	<10	<10	<2	<4	<1	<50	<2	<10
	MW7-ROX-103012-DUP	10/30/2012		41.23	NE	<10 UJ	863		<10	<10	<10	<10	<10	<2	<2	<4	<2	<4 UJ	<10	<10	<2	<4	<1	<50	<2	<10
	MW7-ROX-011513	1/15/2013		42.21	NE	<20	1230		<20	<20	<20	<20	<20	<4	<4	<8	<4	<8	<20	<20	<4	<8	<2	<100	<4	<20
	MW7-ROX-011513-DUP	1/15/2013		42.21	NE	<20	1320		<20	<20	<20	<20	<20	<4	<4	<8	<4	<8	<20	<20	<4	<8	<2	<100	<4	<20
	MW7-ROX-041013	4/10/2013		42.70	NE	<20	475		<20	<10	<10	<10	<10	<2	<2	<4	<2	<4	<10	<10	<2	<4	<1	<50	<2	<10
	MW7-ROX-041013-DUP	4/10/2013		42.70	NE	<20	499		<20	<10	<10	<10	<10	<2	<2	<4	<2	<4	<10	<10	<2	<4	<1	<50	<2	<10
	MW7-ROX-071713	7/17/2013		39.60	NE	<0.01	1000 J		<0.005	<0.005	0.0023 J J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0016 J J	<0.001	<0.002	<0.001 UJ	<0.05	0.2 J	<0.005
	MW7-ROX-101613	10/16/2013		40.64	NE	<20	553		<10	<10	<10	<10	<10	<2	<2	<4	<2	<4	<10	<10	<2	<4	<1	<50	<2	<10 UJ
	MW7-ROX-013014	1/30/2014	42.92 - 52.92	42.94	NE	<25	1490		<13	<13	<13	<13	<13 UJ	<2.5	<2.5	<5	<2.5	<5	<13	<13	<2.5	<5	<1.3	<63 UJ	<2.5	<13

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						VOCs																			
						Acetone[6]	Benzene	Butane[6]	2-Butanone[5]	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	4-Chlorotoluene	Cymene (p-isopropyltoluene)	1,1-Dichloroethane	1,2-Dichloropropane	trans-1,3-Dichloropropene	1,4-Dioxane	Ethylbenzene	Ethyl methacrylate
					Screening Values (mg/L)	6.3 [1]	0.005 [1]		4.2 [1]	0.35 [3]			0.7 [1]	0.005 [1]	0.1 [1]		0.0002 [2]				0.7 [2]	0.005 [2]	0.001 [2]	0.0077 [1]	0.7 [1]	
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																			
MW-08	MW08-ROX-051311	5/13/2011	33.60 - 43.60	28.35	NE	<50	1310		<50	<50	<50	<50	<50	<10	<10	<20	<10	<20	<50	<50	<10	<20	<5	<250	<10	<50
	MW08-ROX-051311D	5/13/2011		28.35	NE	<5	952 J		<5	<5	<5	<5	<5	<1	<1	<2	<1	<2	<5	<5	<1	<2	<0.5	<25	<1	<5
	MW8-ROX-072411	7/24/2011		26.02	NE	<25	1650		<25 UJ	<25	<25	<25	<25	<5	<5	<10	<5	<10 UJ	<25	<25	<5	<10	<2.5	<130	<5	<25
	MW8-ROX-072411-DUP	7/24/2011		26.02	NE	<25 UJ	1860		<25	<25	<25	<25	<25	<5	<5	<10	<5	<10	<25	<25	<5	<10	<2.5	<130	<5	<25
	MW-8-ROX-110211	11/2/2011		27.02	NE	<5	934		<5	<5	<5	<5	<5	<1	<1	<2	<1	<2 UJ	<5	<5	<1	<2	<0.5	<25	<1	<5
	MW8-ROX-011812	1/18/2012		29.15	NE	<0.005	386		<0.005	0.0043 J	0.003 J	0.002 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0022 J	<0.001	<0.002	<0.0005	<0.025	0.285	<0.005
	MW8-ROX-050412	5/4/2012		30.21	NE	<0.5	1070		<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<0.1	<0.2	<0.05	<2.5	0.393	<0.5
	MW8-ROX-050412-DUP	5/4/2012		30.21	NE	<0.5	1040		<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<0.1	<0.2	<0.05	<2.5	0.396	<0.5
	MW8-ROX-080712	8/7/2012		30.97	NE	<0.378 UJ	397 J		<0.1	<0.1	<0.1	<0.1	<0.1	<0.02	<0.02	<0.04	<0.02	<0.04	<0.1	<0.1	<0.02	<0.04	<0.01	<0.5	0.249	<0.1
	MW8-ROX-080712-DUP	8/7/2012		30.97	NE	<0.235 UJ	653 J		<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.02	<0.01	<0.02	<0.05	<0.05	<0.01	<0.02	<0.005	<0.25	0.232	<0.05
	MW8-ROX-103012	10/30/2012		32.32	NE	<5 UJ	523		<5	<5	<5	<5	<5	<1	<1	<2	<1	<2 UJ	<5	<5	<1	<2	<0.5	<25	<1	<5
	MW8-ROX-011513	1/15/2013		33.30	NE	<10	1120 J		<10	<10	<10	<10	<10	<2	<2	<4	<2	<4	<10	<10	<2	<4	<1	<50	<2	<10
	MW8-ROX-041013	4/10/2013		33.77	NE	<50	969		<50	<25	<25	<25	<25	<5	<5	<10	<5	<10	<25	<25	<5	<10	<2.5	<130	<5	<25
	MW8-ROX-071713	7/17/2013		30.43	NE	<0.008 U	532		<0.005	<0.005	0.0033 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0023 J	<0.001	<0.002	<0.001 UJ	<0.05	0.508	<0.005
	MW8-ROX-071713-DUP	7/17/2013		30.43	NE	<0.01	494		<0.005	<0.005	0.0031 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0024 J	<0.001	<0.002	<0.001 UJ	<0.05	0.442 J	<0.005
	MW8-ROX-101613	10/16/2013		31.59	NE	<20	360		<10	<10	<10	<10	<10	<2	<2	<4	<2	<4	<10	<10	<2	<4	<1	<50	<2	<10 UJ
	MW8-ROX-101613-DUP	10/16/2013		31.59	NE	<20	351		<10	<10	<10	<10	<10	<2	<2	<4	<2	<4	<10	<10	<2	<4	<1	<50	<2	<10 UJ
	MW8-ROX-013014	1/30/2014	33.60 - 43.60	34.02	NE	<25	721		<13	<13	<13	<13	<13 UJ	<2.5	<2.5	<5	<2.5	<5	<13	<13	<2.5	<5	<1.3	<63 UJ	<2.5	<13
	MW8-ROX-013014-DUP	1/30/2014		34.02	NE	<25	748		<13	<13	<13	<13	<13 UJ	<2.5	<2.5	<5	<2.5	<5	<13	<13	<2.5	<5	<1.3	<63 UJ	<2.5	<13
MW-09	MW09-ROX-050611	5/6/2011	46.45 - 56.45	40.12	NE	<0.005	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW9-ROX-072311	7/23/2011		38.06	NE	<0.005 UJ	0.0024		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW9-ROX-110111	11/1/2011		37.78	NE	<0.005	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW9-ROX-011612	1/16/2012		39.50	NE	<0.005	0.0031		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW9-ROX-050312	5/3/2012		41.03	NE	<0.005	0.001		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW9-ROX-072712	7/27/2012		41.30	NE	<0.005 UJ	0.00058		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.002	<0.0005		<0.001	<0.005
	MW9-ROX-102912	10/29/2012		43.17	NE	<0.005 UJ	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW9-ROX-011113	1/11/2013		43.90	NE	<0.123 U	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW9-ROX-040913	4/9/2013		44.67	NE	<0.005	<0.0005		<0.01	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW9-ROX-070813	7/8/2013		42.35	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW9-ROX-100313	10/3/2013		42.27	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW9-ROX-011414	1/14/2014	46.45 - 56.45	44.47	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
MW-10	MW10-ROX-042811	4/28/2011	44.43 - 54.43	40.20	NE	<0.0088 U	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW10-ROX-072311	7/23/2011		38.01	NE	<0.005 UJ	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW10-ROX-110111	11/1/2011		37.72	NE	<0.005	0.0022		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW10-ROX-011612	1/16/2012		39.28	NE	<0.005	0.0026		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW10-ROX-050112	5/1/2012		40.86	NE	<0.005	0.00079		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW10-ROX-072712	7/27/2012		41.21	NE	<0.005 UJ	0.00058		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.002	<0.0005		<0.001	<0.005
	MW10-ROX-102612	10/26/2012		43.08	NE																				
	MW10-ROX-121712	12/17/2012		43.08	NE	<0.005 UJ	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	0.00095 J	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW10-ROX-011013	1/10/2013		44.10	NE	<0.101 U	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	0.0074	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW10-ROX-012113	1/21/2013		44.10	NE	<0.025	0.003		<0.0051 U	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.001	<0.01	<0.005	<0.005	<0.005	<0.005	<0.001		<0.005	<0.005
	MW10-ROX-040913	4/9/2013		44.60	NE	<0.005	0.00067		<0.01	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW10-ROX-070813	7/8/2013		42.27	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW10-ROX-100313	10/3/2013		42.38	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW10-ROX-011514	1/15/2014	44.43 - 54.43	44.42	NE	0.0174	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005

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SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						VOCs																			
						Acetone[5]	Benzene	Butane[5]	2-Butanone[5]	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	4-Chlorotoluene	Cymene (p-isopropyltoluene)	1,1-Dichloroethane	1,2-Dichloropropane	trans-1,3-Dichloropropene	1,4-Dioxane	Ethylbenzene	Ethyl methacrylate
					Screening Values (mg/L)	6.3 [1]	0.005 [1]		4.2 [1]	0.35 [3]			0.7 [1]	0.005 [1]	0.1 [1]		0.0002 [2]				0.7 [2]	0.005 [2]	0.001 [2]	0.0077 [1]	0.7 [1]	
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																			
MW-11	MW11-ROX-050611	5/6/2011	41.66 - 51.66	37.60	NE	<0.005	0.00041 J		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW11-ROX-072411	7/24/2011		34.3	NE	<0.005 UJ	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW-11-ROX-110211	11/2/2011		35.44	NE	<0.005	0.0019		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW11-ROX-011712	1/17/2012		37.44	NE	<0.005	0.0024		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW11-ROX-043012	4/30/2012		38.66	NE	<0.005	0.00087		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW11-ROX-072712	7/27/2012		38.90	NE	<0.005 UJ	0.00073		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.002	<0.0005		<0.001	<0.005
	MW11-ROX-102512	10/25/2012		40.59	NE	<0.005 UJ	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW11-ROX-011013	1/10/2013		41.43	NE	<0.005	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW11-ROX-040813	4/8/2013		42.02	NE	<0.005 UJ	<0.00065 U		<0.005	<0.005	<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW11-ROX-070813	7/8/2013		39.24	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW11-ROX-100713	10/7/2013		39.95	NE	<0.01 UJ	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW11-ROX-011514	1/15/2014	41.66 - 51.66	42.16	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
MW-12	MW12-ROX-051211	5/12/2011	41.92 - 51.92	37.58	NE	<0.005 UJ	0.0016		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW12-ROX-072411	7/24/2011		35.55	NE	<0.005 UJ	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002 UJ	<0.001	<0.002	<0.005	<0.005 UJ	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW-12-ROX-110211	11/2/2011		35.70	NE	<0.005	0.0012		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW-12-ROX-110211-DUP	11/2/2011		35.70	NE	<0.005	0.0014		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW12-ROX-011712	1/17/2012		37.70	NE	<0.005	0.0023		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW12-ROX-011712-DUP	1/17/2012		37.70	NE	<0.005	0.0028		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW12-ROX-043012	4/30/2012		38.98	NE	<0.005	0.00066		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW12-ROX-072712	7/27/2012		39.22	NE	<0.005 UJ	0.0013		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.002	<0.0005		<0.001	<0.005
	MW12-ROX-102512	10/25/2012		40.95	NE	<0.005 UJ	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW12-ROX-011013	1/10/2013		41.83	NE	<0.35 U	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW12-ROX-040813	4/8/2013		42.46	NE	<0.005 UJ	<0.00088 U		<0.005	<0.005	<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW12-ROX-070913	7/9/2013		39.28	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005		<0.001	<0.005
	MW12-ROX-100713	10/7/2013		40.22	NE	<0.01 UJ	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW12-ROX-011514	1/15/2014	41.92 - 51.92	42.54	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
MW-13	MW13-ROX-051311	5/13/2011	25.57 - 35.57	23.65	NE	<0.005 UJ	0.0005 J		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW13-ROX-080311	8/3/2011		21.67	NE	<0.005	<0.0005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW13-ROX-110311	11/3/2011		22.85	NE	<0.005	0.05		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW13-ROX-012012	1/20/2012		24.77	NE	<0.005	0.0742 J		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW13-ROX-050712	5/7/2012		25.79	NE	<0.005	0.009		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW13-ROX-080812	8/8/2012		26.67	NE	<0.037 U	0.0069 J		<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.001 UJ	<0.002 UJ	<0.001 UJ	<0.002 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.002 UJ	<0.0005 UJ	<0.025 UJ	<0.001 UJ	<0.005 UJ
	MW13-ROX-110812	11/8/2012		25.30	NE	<0.005	0.0048		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW13-ROX-012313	1/23/2013		29.26	NE	<0.005	0.0067 J		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025 UJ	<0.001	<0.005
	MW13-ROX-041213	4/12/2013		29.44	NE	<0.0319 UJ	0.0102 J		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW13-ROX-071213	7/12/2013		25.67	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001 UJ	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW13-ROX-100913	10/9/2013		26.94	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW13-ROX-012914	1/29/2014	25.57 - 35.57	29.63	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
MW-14	MW14-ROX-110911	11/9/2011	33.42 - 43.42			<0.005	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW14-ROX-051012	5/10/2012		NM	NE	<0.005	0.009		<0.005	0.0014 J	0.0026 J	0.0012 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW14-ROX-080312	8/3/2012		NM	NE	<0.005	0.0131		<0.005	0.0015 J	0.0027 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.00065 J	<0.005
	MW14-ROX-103112	10/31/2012		32.02	NE	<0.005 UJ	0.00093		<0.005	<0.005	0.0028 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW14-ROX-011813	1/18/2013		33.05	NE	<0.005	0.0017		<0.005	0.0014 J	0.0032 J	0.0011 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW14-ROX-041113	4/11/2013		33.31	NE	<0.01	0.0125 J		<0.01	0.0021 J	0.0048 J	0.0016 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW14-ROX-071213	7/12/2013		30.36	NE	<0.01	0.00064		<0.005	0.00066 J	0.002 J	0.0013 J	<0.005	<0.001 UJ	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW14-ROX-101013	10/10/2013		30.80	NE	<0.01	<0.0005		<0.005	<0.005	0.0013 J	0.0012 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0011 J	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW14-ROX-012914	1/29/2014	33.42 - 43.42	33.67	NE	<0.01	<0.0005		<0.005	<0.005	0.0013 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
MW-16	MW16-ROX-012313	1/23/2013	37.06 - 47.06	43.05	NE	<0.005	0.00057 J		0.0029 J	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025 UJ	<0.001	<0.005
	MW16-ROX-040813	4/8/2013		43.39	NE	<0.005 UJ	<0.00058 U		<0.005	<0.005	<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW16-ROX-070813	7/8/2013		40.62	NE	<0.01	<0.00062 U		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW16-ROX-100813	10/8/2013		41.62	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW16-ROX-011514	1/15/2014	37.06 - 47.06	43.76	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						VOCs																			
						Acetone[5]	Benzene	Butane[5]	2-Butanone[5]	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	4-Chlorotoluene	Cymene (p-isopropyltoluene)	1,1-Dichloroethane	1,2-Dichloropropane	trans-1,3-Dichloropropene	1,4-Dioxane	Ethylbenzene	Ethyl methacrylate
					Screening Values (mg/L)	6.3 [1]	0.005 [1]		4.2 [1]	0.35 [3]			0.7 [1]	0.005 [1]	0.1 [1]		0.0002 [2]				0.7 [2]	0.005 [2]	0.001 [2]	0.0077 [1]	0.7 [1]	
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																			
MW-22	MW22-ROX-012313	1/23/2013	37.88 - 47.88	41.80	NE	<0.25	2.12		<0.295 U	<0.25	<0.25	<0.25	<0.25	<0.05	<0.05	<0.1	<0.05	<0.1	<0.25	<0.25	<0.05	<0.1	<0.025	<1.3 UJ	3.45	<0.25
	MW22-ROX-012313-DUP	1/23/2013		41.80	NE	<0.25	2.09		<0.31 U	<0.25	<0.25	<0.25	<0.25	<0.05	<0.05	<0.1	<0.05	<0.1	<0.25	<0.25	<0.05	<0.1	<0.025	<1.3 UJ	3.19	<0.25
	MW22-ROX-040513	4/5/2013		42.23	NE	<0.005 UJ	1.5		<0.005	0.0413 J	0.0142 J	0.0171 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0122 J	<0.001	<0.002	<0.0005	<0.025	2.44	<0.005
	MW22-ROX-071113	7/11/2013		39.35	NE	<0.01 UJ	1.19		<0.005 UJ	<0.005	0.0116	0.0142	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0087	<0.001	<0.002	<0.0005		2.07	<0.005
	MW22-ROX-071113-DUP	7/11/2013		39.35	NE	<0.01 UJ	1.11		<0.005 UJ	<0.005	0.0116	0.0148	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0087	<0.001	<0.002	<0.0005		1.79	<0.005
	MW22-ROX-100913	10/9/2013		40.39	NE	<0.01	1.33		<0.005	0.0286	0.012	0.0167	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.01	<0.001	<0.002	<0.0005	<0.025	3.79	<0.005
	MW22-ROX-100913-DUP	10/9/2013		40.39	NE	<0.01	1.39		<0.005	0.0276	0.0118	0.0163	<0.005	<0.001	<0.001	0.0018 J	<0.001	<0.002	<0.005	0.0095	<0.001	<0.002	<0.0005	<0.025	3.97	<0.005
	MW22-ROX-012014	1/20/2014	37.88 - 47.88	42.49	NE	<0.01	1.47		0.0804	0.0357	0.0128	0.0147	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0094	0.0028	<0.002	<0.0005	<0.025 UJ	3.17	<0.005
	MW22-ROX-012014-DUP	1/20/2014		42.49	NE	<0.01	1.58		0.0815	0.0355	0.0127	0.0146	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0094	<0.001	<0.002	<0.0005	<0.025 UJ	3.4	<0.005
MW-24	MW24-ROX-040513	4/5/2013	38.89 - 48.89	43.39	NE	<0.005	0.0029		<0.01	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0012	<0.005
	MW24-ROX-071113	7/11/2013		40.35	NE	<0.0157 UJ	<0.0005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005		<0.001	<0.005
	MW24-ROX-100913	10/9/2013		41.27	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	MW24-ROX-011514	1/15/2014	38.89 - 48.89	43.47	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
P-54	P54-ROX-051111	5/11/2011	38.00 - 63.00	37.37	NE	<0.005	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	P54-ROX-072411	7/24/2011		35.38	NE	<0.005 UJ	0.0023		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002 UJ	<0.001	<0.002	<0.005	<0.005 UJ	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	P54-ROX-110311	11/3/2011		35.49	NE	<0.005	0.013		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	P54-ROX-011712	1/17/2012		37.17	NE	<0.005	0.0025		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	P54-ROX-050412	5/4/2012		38.77	NE	<0.005	0.00082		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	P54-ROX-080212	8/2/2012		38.95	NE	<0.005 UJ	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005		<0.001	<0.005
	P54-ROX-103012	10/30/2012		40.70	NE	<0.005 UJ	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	P54-ROX-011113	1/11/2013		41.56	NE	<0.005	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	P54-ROX-041013	4/10/2013		41.80	NE	<0.01	0.172		<0.01	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	P54-ROX-050313	5/3/2013		41.80	NE	<0.01 UJ	0.0028		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	P54-ROX-071113	7/11/2013		39.07	NE	<0.01 UJ	<0.0005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005		<0.001	<0.005
	P54-ROX-100813	10/8/2013		39.94	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	P54-ROX-011514	1/15/2014	38.00 - 63.00	42.20	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
P-55	P55-ROX-103111	10/31/2011	39.82 - 64.82	39.15	NE	<0.005	0.152		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0143	<0.005
	P55-ROX-011912	1/19/2012		41.09	NE	<0.005	<0.197 U		<0.005	<0.005	0.0036 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0656	<0.005
	P55-ROX-011912-D	1/19/2012		41.09	NE	<0.005	<0.202 U		<0.005	<0.005	0.0038 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0683	<0.005
	P55-ROX-050912	5/9/2012		42.44	NE	<0.005	0.388		<0.005	0.0099	0.0093	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0031 J	<0.001	<0.002	<0.0005	<0.025	0.41	<0.005
	P55-ROX-012113	1/21/2013	40.43 - 50.43	43.60	NE	<0.25	0.571		<0.25	0.0533	0.011 J	<0.05	<0.05	<0.05	<0.05	<0.1	<0.01	<0.1	<0.05	<0.05	<0.05	<0.05	<0.01		0.316	<0.05
	P55-ROX-012113	1/21/2013		43.60	NE	<0.005	0.538		<0.253 U	0.0203	0.0143	0.0013 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0055	<0.001	<0.002	<0.0005	<0.025	0.366	<0.005
	P55-ROX-041513	4/15/2013		43.63	NE	<0.02 UJ	0.434		<0.01	0.0052 J	0.0196	<0.01	<0.01	<0.002	<0.002	<0.004	<0.002	<0.004	<0.01	<0.01	<0.002	<0.004	<0.001	<0.05	0.35	<0.01
	P55-ROX-071613	7/16/2013		40.06	NE	<0.01	0.573	0.88	<0.005	0.0256	0.0155	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0065	<0.001	<0.002	<0.0005	<0.025	0.495	<0.005
	P55-ROX-101013	10/10/2013		41.67	NE	<0.01	0.757		<0.005	0.0239	0.0147	0.0013 J	<0.005	<0.001	<0.001	0.005	<0.001	0.0017 J J	<0.005	0.0066	<0.001	<0.002	<0.0005	<0.025	0.602	<0.005
P-56	P56-ROX-102711	10/27/2011	40.82 - 65.82	39.42	NE	<0.005	0.144		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.457 J	<0.005
	P56-ROX-011912	1/19/2012		41.81	NE	<0.005	0.335		<0.005	<0.005	0.0035 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.227	<0.005
	P56-ROX-050812	5/8/2012		43.09	NE	<0.23 U	0.144		<0.005	0.0086	0.0051	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	0.0069	<0.005	0.0044 J	<0.001	<0.002	<0.0005	<0.025	1.14	<0.005
	P56-ROX-080612	8/6/2012		43.60	NE	<0.025 UJ	0.164		<0.025 UJ	<0.025	<0.025	<0.025	<0.025	<0.005	<0.005	<0.01	<0.005	<0.01	<0.025	<0.025	<0.005	<0.01	<0.0025		0.101	<0.025
	P56-ROX-103112	10/31/2012		44.80	NE	<0.005 UJ	0.176		<0.005	<0.005	0.005	0.0021 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0041 J	<0.001	<0.002	<0.0005	<0.025	1.29	<0.005
	P56-ROX-011713	1/17/2013		45.65	NE	<0.025	0.191		<0.025	0.0031 J	<0.025	<0.025	<0.025	<0.005	<0.005	<0.01	<0.005	<0.01	<0.025	<0.025	<0.005	<0.01	<0.0025	<0.13	0.0088	<0.025
	P56-ROX-041213	4/12/2013		46.12	NE	<0.02 U	0.131		<0.01	<0.01	0.0142	<0.01	<0.01	<0.002	<0.002	<0.004	<0.002	<0.004	<0.01	<0.01	<0.002	<0.004	<0.001	<0.05	0.691	<0.01
	P56-ROX-071513	7/15/2013		43.25	NE	<0.156 U	0.131		<0.005	0.0141	0.0072	0.0038 J	<0.005	<0.001	<0.001	0.0047	<0.001	<0.002	<0.005	0.0061	<0.001	<0.002	<0.0005	<0.025	2	<0.005
	P56-ROX-101013	10/10/2013		44.48	NE	<0.01	0.14		<0.005	0.0088	0.005	0.0018 J	<0.005	<0.001	<0.001	0.0038	<0.001	<0.002	<0.005	0.0046 J	<0.001	<0.002	0.001	<0.025	1.58	<0.005
	P56-ROX-012214	1/22/2014	40.82 - 65.82	46.35	NE	<0.01	0.0895		<0.005	0.0033 J	0.0023 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0018 J	<0.001	<0.002	<0.0005	<0.025	0.305	<0.005
P-57	P57-ROX-110811	11/8/2011	40.46 - 65.46	39.20	NE	<0.5	123		<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<0.1	<0.2	<0.05	<2.5	1.1	<0.5
	P57-ROX-021312	2/13/2012		42.13	NE	<2.5 UJ	126		<2.5	<2.5	<2.5	<2.5	<2.5	<0.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<0.5	<1	<0.25	<13	0.719	<2.5
	P57-ROX-050712	5/7/2012		42.92	NE	<0.5	147		<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<0.1	<0.2	<0.05	<2.5	1.07	<0.5
	P57-ROX-080612	8/6/2012		43.53	NE	<0.25 UJ	99.4 J		<0.25 UJ	<0.25	<0.25	<0.25	<0.25	<0.05	<0.05	<0.1	<0.05	<0.1	<0.25	<0.25	<0.05	<0.1	<0.025		0.795	<0.25
	P57-ROX-080612-DUP	8/6/2012		43.53	NE	<0.005 UJ	106 J		<0.005 UJ	<0.005	0.0107	0.0124	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0109	<0.001	<0.002	<0.0005		0.759 E	<0.005
	P57-ROX-110512	11/5/2012		44.98	NE	<2.5	142		<2.5	<2.5	<2.5	<2.5	<2.5	<0.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<0.5	<1	<0.25	<13	1.09	<2.5
	P57-ROX-012913	1/29/2013		45.92	NE	<2.5	114		<2.5	<2.5	<2.5	<2.5	<2.5	<0.5	1.43	<1	<0.5	<1	<2.5	<2.5	<0.5	<1	<0.25	<13	1.1	<2.5
	P57-ROX-041113	4/11/2013		46.29	NE	<5	141		<5	<2.5	<2.5	<2.5	<2.5	<0.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<0.5	<1	<0.25	<13	1.19	<2.5
	P57-ROX-071613	7/16/2013		43.38	NE	<0.01	254		<0.005	0.0143 J	0.0131 J	0.0103 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0119 J	<0.001	<0.002	<0.0005	<0.025	1.59	<0.005
	P57-ROX-101413	10/14/2013		44.38	NE	<0.01	288		<0.005	0.0129	0.0116	0.0163	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0113	<0.001	<0.002	<0.0005	<0.025	1.1	<0.005
	P57-ROX-020314	2/3/2014	40.46 - 65.46	46.57	NE	<10	261		<5	<5	<5	<5	<5 UJ	<1	<1	<2	<1	<2	<5	<5	<1	<2	<0.5	<25	0.697 J	<5

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						VOCs																		
						Acetone[6]	Benzene	Butane[6]	2-Butanone[5]	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	4-Chlorotoluene	Cymene (p-isopropyltoluene)	1,1-Dichloroethane	1,2-Dichloropropane	trans-1,3-Dichloropropene	1,4-Dioxane	Ethylbenzene	Ethyl methacrylate
					Screening Values (mg/L)	6.3 [1]	0.005 [1]		4.2 [1]	0.35 [3]			0.7 [1]	0.005 [1]	0.1 [1]		0.0002 [2]				0.7 [2]	0.005 [2]	0.001 [2]	0.0077 [1]	0.7 [1]	
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
P-58	P58-ROX-102811	10/28/2011	40.21 - 65.21	37.31	NE	<0.005	430		<0.005	<0.005	0.0148	0.0344	<0.005	<0.001	0.0014	<0.002	<0.001	<0.002	<0.005	0.0113	<0.001	<0.002	<0.0005	<0.025	<5	<0.005
	P58-ROX-011912	1/19/2012		39.73	NE	<0.005	487		<0.005	0.027	0.0215	0.056 J	<0.005	<0.001	0.0013	<0.002	<0.001	<0.002	<0.005	0.0149	<0.001	<0.002	<0.0005	<0.025	0.97 J	<0.005
	P58-ROX-011912-D	1/19/2012		39.73	NE	<0.005	474		<0.005	0.0235 J	0.0168 J	0.0387 J	<0.005	<0.001	0.0014 J	<0.002	<0.001	<0.002	<0.005	0.0123 J	<0.001	<0.002	<0.0005	<0.025	1.03	<0.005
	P58-ROX-050712	5/7/2012		40.90	NE	<0.5	477		<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<0.1	<0.2	<0.05	<2.5	1.03	<0.5
	P58-ROX-050712-DUP	5/7/2012		40.90	NE	<0.5	440		<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<0.1	<0.2	<0.05	<2.5	1	<0.5
	P58-ROX-080612	8/6/2012		41.63	NE	<0.1 UJ	313 J		<0.1 UJ	<0.1	<0.1	0.0317 J	<0.1	<0.02	<0.02	<0.04	<0.02	<0.04	<0.1	<0.1	<0.02	<0.04	<0.01		0.889	<0.1
	P58-ROX-080612-DUP	8/6/2012		41.63	NE	<0.05	308 J		<0.05	<0.05	0.0176 J	0.0339 J	<0.05	<0.01	<0.01	<0.02	<0.01	<0.02	<0.05	0.0118 J	<0.01	<0.02	<0.005	<0.25	0.931	<0.05
	P58-ROX-110612	11/6/2012		43.09	NE	<0.5 UJ	415		<0.5	<0.5	<0.5	<0.5	<0.5	<0.1 UJ	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<0.1	<0.2	<0.05	<2.5	0.844	<0.5
	P58-ROX-121012	12/10/2012		43.09	NE																				
	P58-ROX-012213	1/22/2013		44.21	NE	<5	552		<5	<5	<5	<5	<5	<1	<1	<2	<1	<2	<5	<5	<1	<2	<0.5	<25	1.27	<5
	P58-ROX-041113	4/11/2013		44.40	NE	<20	532		<20	<10	<10	<10	<10	<2	<2	<4	<2	<4	<10	<10	<2	<4	<1	<50	1.28 J	<10
	P58-ROX-071613	7/16/2013		41.49	NE	<0.01	398		<0.005	0.0239	0.0215	0.0532	<0.005	<0.001	0.0017	<0.002	<0.001	<0.002	<0.005	0.0152	<0.001	<0.002	<0.0005	<0.025	1.07	<0.005
	P58-ROX-101413	10/14/2013		42.19	NE	<0.01	647		<0.005	0.023	0.0235	0.0483	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0143	<0.001	<0.002	<0.0005	<0.025	1.53	<0.005
	P58-ROX-020314	2/3/2014	40.21 - 65.21	44.66	NE	<10	496		<5	<5	<5	<5	<5 UJ	<1	<1	<2	<1	<2	<5	<5	<1	<2	<0.5	<25	0.767 J	<5
P-59	P59-ROX-102711	10/27/2011	47.91 - 72.91	41.06	NE	<0.25	6.01		<0.25	<0.25	<0.25	<0.25	<0.25	<0.05	<0.05	<0.1	<0.05	<0.1	<0.25	<0.25	<0.05	<0.1	<0.025	<1.3	1.49	<0.25
	P59-ROX-011912	1/19/2012		42.88	NE	<0.005	6.61		<0.158 U	<0.005 UJ	0.0054	0.0031 J J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0036 J	<0.001	<0.002	<0.0005	<0.025	1.28	<0.005
	P59-ROX-011912-DUP	1/19/2012		42.88	NE	<0.005	7.04		<0.185 U	0.0264 J	0.0055	0.0372 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0038 J	<0.001	<0.002	<0.0005	<0.025	1.4	<0.005
	P59-ROX-050912	5/9/2012		44.11	NE	<0.25	7.86		<0.25	<0.25	<0.25	<0.25	<0.25	<0.05	<0.05	<0.1	<0.05	<0.1	<0.25	<0.25	<0.05	<0.1	<0.025	<1.3	1.93	<0.25
	P59-ROX-080212	8/2/2012		44.07	NE	<0.1 UJ	11		<0.1	<0.1	<0.1	<0.1	<0.1	<0.02	<0.02	<0.04	<0.02	<0.04	<0.1	<0.1	<0.02	<0.04	<0.01		1.74	<0.1
	P59-ROX-110212	11/2/2012		45.98	NE	<0.5 UJ	10.3		<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<0.1	<0.2	<0.05	<2.5	1.87	<0.5
	P59-ROX-110212-DUP	11/2/2012		45.98	NE	<0.5 UJ	10.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<0.1	<0.2	<0.05	<2.5	1.94	<0.5
	P59-ROX-013013	1/30/2013		46.60	NE	<0.25	12.1		<0.25	<0.25	<0.25	<0.25	<0.25	<0.05	<0.05	<0.1	<0.05	<0.1	<0.25	<0.25	<0.05	<0.1	<0.025	<1.3	1.9	<0.25
	P59-ROX-041213	4/12/2013		46.95	NE	<0.5 UJ	15		<0.25	<0.25	0.289	<0.25	<0.25	<0.05	<0.05	<0.1	<0.05	<0.1	<0.25	<0.25	<0.05	<0.1	<0.025	<1.3	2.85	<0.25
	P59-ROX-041213-DUP	4/12/2013		46.95	NE	<0.5 UJ	13.4		<0.25	<0.25	0.288	<0.25	<0.25	<0.05	<0.05	<0.1	<0.05	<0.1	<0.25	<0.25	<0.05	<0.1	<0.025	<1.3	2.57	<0.25
	P59-ROX-071613	7/16/2013		44.13	NE	<0.01	10.2		<0.005	0.0213 J	0.0068 J	0.0027 J J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0046 J J	<0.001	<0.002	<0.0005	<0.025	2.4	<0.005
	P59-ROX-101013	10/10/2013		45.50	NE	<0.01	14.7		<0.005	0.0224	<0.005	0.0024 J	<0.005	<0.001	<0.001	0.0034	<0.001	<0.002	<0.005	0.0051	<0.001	<0.002	<0.0005	<0.025	3.19	<0.005
	P59-ROX-020314	2/3/2014	47.91 - 72.91	47.35	NE	<0.2	15.9		<0.1	0.0165 J	<0.1	<0.1	<0.1 UJ	<0.02	<0.02	<0.04	<0.02	<0.04	<0.1	<0.1	<0.02	<0.04	<0.01	<0.5	1.86	<0.1
P-66	P66-ROX-110111	11/1/2011	34.72 - 59.72	28.92	NE	<0.005	0.0171		<0.005	0.0153	0.0185	0.0063	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0016	<0.005
	P66-ROX-051012	5/10/2012		32.48	NE	<0.005	0.0193		<0.005	0.0139	0.019	0.0059	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0015	<0.005
	P66-ROX-080312	8/3/2012		30.51	NE	<0.005	0.0994		<0.005	0.0118	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0013	<0.005
	P66-ROX-103112	10/31/2012		34.75	NE	<0.005	0.223		<0.005	0.0145	0.02	0.0054	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0012	<0.005
	P66-ROX-011813	1/18/2013		35.70	NE	<0.005	0.0896		<0.005	0.0129	0.0227	0.0087	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0014	<0.005
	P66-ROX-041113	4/11/2013		36.03	NE	<0.01	0.0444		<0.01	0.0199	0.0249	0.0104	<0.005	<0.001	<0.001	0.00065 J	<0.001	<0.002	<0.005	0.0093	<0.001	<0.002	<0.0005	<0.025	0.0036	<0.005
	P66-ROX-071213	7/12/2013		33.20	NE	<0.01	0.187		<0.005	0.0146	0.0221	0.006	<0.005	<0.001 UJ	0.00059 J	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0022	<0.005
	P66-ROX-101013	10/10/2013		33.66	NE	0.0095 J	0.0646		<0.005	0.0141	0.0186	0.0067	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0045	<0.005
	P66-ROX-110713	11/7/2013		33.66	NE	<0.01	0.03		<0.005	0.0088	0.0102	0.0071	<0.005	<0.001	0.0007 J	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0016	<0.005
	P66-ROX-012914	1/29/2014	34.72 - 59.72	36.39	NE	<0.01	0.008		<0.005	0.016	0.0205	0.0053	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0013	<0.005
P-74	P74-ROX-103111	10/31/2011	44.43 - 69.43	36.26	NE	<0.005	5.02		<0.005	0.0242	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.229	<0.005
	P74-ROX-011912	1/19/2012		38.77	NE	<0.005	<0.205 U		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0095	<0.005
	P74-ROX-050712	5/7/2012		39.92	NE	<0.005	0.336		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0081	<0.005
	P74-ROX-080612	8/6/2012		40.71	NE	<0.05 UJ	2.46		<0.05 UJ	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.02	<0.01	<0.02	<0.05	<0.05	<0.01	<0.02	<0.005		0.0782	<0.05
	P74-ROX-110112	11/1/2012		41.72	NE	<0.1	3.5		<0.1	<0.1	<0.1	<0.1	<0.1	<0.02	<0.02	<0.04	<0.02	<0.04	<0.1	<0.1	<0.02	<0.04	<0.01	<0.5	0.0493	<0.1
	P74-ROX-011713	1/17/2013		42.65	NE	<0.1	4.99		<0.1	0.0143 J	<0.1	<0.1	<0.1	<0.02	<0.02	<0.04	<0.02	<0.04	<0.1	<0.1	<0.02	<0.04	<0.01	<0.5	0.0997	<0.1
	P74-ROX-041113	4/11/2013		42.83	NE	<0.01	0.144		<0.01	0.0026 J	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0086	<0.005
	P74-ROX-071513	7/15/2013		40.11	NE	<0.0046 U	0.117		<0.005	0.0088	0.002 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0017 J	<0.001	<0.002	<0.0005	<0.025	0.0306	<0.005
	P74-ROX-101413	10/14/2013		41.72	NE	<0.01	1.55		<0.005	0.0158	0.003 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0031 J	<0.001	<0.002	<0.0005	<0.025	0.0653	<0.005
	P74-ROX-012414	1/24/2014	44.43 - 69.43	43.35	NE	<0.01	4.45		<0.005	0.0252	0.0031 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0031 J	<0.001	<0.002	<0.0005	<0.025	0.115	<0.005

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						VOCs																			
						Acetone[6]	Benzene	Butane[6]	2-Butanone[5]	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	4-Chlorotoluene	Cymene (p-isopropyltoluene)	1,1-Dichloroethane	1,2-Dichloropropane	trans-1,3-Dichloropropene	1,4-Dioxane	Ethylbenzene	Ethyl methacrylate
					Screening Values (mg/L)	6.3 [1]	0.005 [1]		4.2 [1]	0.35 [3]			0.7 [1]	0.005 [1]	0.1 [1]		0.0002 [2]				0.7 [2]	0.005 [2]	0.001 [2]	0.0077 [1]	0.7 [1]	
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																			
P-93A	P93A-ROX-050511	5/5/2011	48.17 - 63.17	41.88	NE	<0.005	551		<0.005	<0.005	0.0054 J	0.0133 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0034 J J	<0.001	<0.002	<0.0005	<0.025	<5	<0.005
	P93A-ROX-081811	8/18/2011		39.40	NE	<0.005	467		<0.005	<0.005	0.0071	0.0177	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0049 J	<0.001	<0.002	<0.0005	<0.025	<10	<0.005
	P93A-ROX-102611	10/26/2011		39.43	NE	<0.005 UJ	543		<0.005	<0.005	0.006	0.015	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0081	<0.001	<0.002	<0.0005	<0.025	0.304	<0.005
	P93A-ROX-012012	1/20/2012		41.66	NE	<0.005	164 J		<0.005	0.0037 J J	0.0045 J	0.0122	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0023 J	<0.001	<0.002	<0.0005	<0.025	0.185	<0.005
	P93A-ROX-050812	5/8/2012		42.75	NE	<0.0441 U	200		<0.005 UJ	0.005 J	0.0069 J	0.0179 J	<0.005 UJ	<0.001 UJ	<0.001 UJ	<0.002 UJ	<0.001 UJ	<0.002 UJ	<0.005 UJ	0.0035 J J	<0.001 UJ	<0.002 UJ	<0.0005 UJ	<0.025 UJ	0.38 J	<0.005 UJ
	P93A-ROX-080912	8/9/2012		43.66	NE	<1.63 U	87		<0.005	0.0016 J	0.0048 J	0.0128	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0022 J	<0.001	<0.002	<0.0005	<0.025	0.225	<0.005
	P93A-ROX-110712	11/7/2012		45.00	NE	<0.5 UJ	148		<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<0.1	<0.2	<0.05	<2.5	0.265	<0.5
	P93A-ROX-110712-DUP	11/7/2012		45.00	NE	<0.5 UJ	156		<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<0.1	<0.2	<0.05	<2.5	0.262	<0.5
	P93A-ROX-012313	1/23/2013		45.89	NE	<2.5	101		<2.5	<2.5	<2.5	<2.5	<2.5	<0.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<0.5	<1	<0.25	<13 UJ	<0.5	<2.5
	P93A-ROX-012313-DUP	1/23/2013		45.89	NE	<2.5	98.5		<2.5	<2.5	<2.5	<2.5	<2.5	<0.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<0.5	<1	<0.25	<13 UJ	<0.5	<2.5
	P93A-ROX-041113	4/11/2013		46.29	NE	<5	120		<5	<2.5	<2.5	<2.5	<2.5	<0.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<0.5	<1	<0.25	<13	0.255 J	<2.5
	P93A-ROX-041113-DUP	4/11/2013		46.29	NE	<5	120		<5	<2.5	<2.5	<2.5	<2.5	<0.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<0.5	<1	<0.25	<13	<0.5	<2.5
	P93A-ROX-071813	7/18/2013		43.25	NE	<0.0053 U	89.1		<0.005	<0.005	0.0056	0.0916	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0024 J	<0.001	<0.002	<0.001 UJ	<0.05	0.162	<0.005
	P93A-ROX-101113	10/11/2013		44.18	NE	<0.01 UJ	197		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0025 J	<0.001	<0.002	<0.0005	<0.025	0.264	<0.005
	P93A-ROX-012914	1/29/2014	48.17 - 63.17	46.53	NE	<5	136		<2.5	<2.5	<2.5	<2.5	<2.5	<0.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<0.5	<1	<0.25	<13	<0.5	<2.5
P-93B	P93B-ROX-050511	5/5/2011	74.60 - 76.60	41.96	NE	<0.005	134		<0.005	<0.005	0.0045 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0169	<0.005
	P93B-ROX-081811	8/18/2011		39.44	NE	<5	304		<5	<5	<5	<5	<5	<1	<1	<2	<1	<2	<5	<5	<1	<2	<0.5	<25	<1	<5
	P93B-ROX-102611	10/26/2011		39.48	NE	<0.005 UJ	590		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0533	<0.005
	P93B-ROX-012012	1/20/2012		41.72	NE	<0.005	337		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	0.0831 J	0.0274 J	<0.005
	P93B-ROX-050812	5/8/2012		42.79	NE	<0.0747 U	304		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0379 J	<0.005
	P93B-ROX-080912	8/9/2012		43.69	NE	<0.0672 UJ	317		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0741	<0.005
	P93B-ROX-110712	11/7/2012		45.05	NE	<0.5 UJ	162 J		<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<0.1	<0.2	<0.05	<2.5	<0.1	<0.5
	P93B-ROX-110712-DUP	11/7/2012		45.05	NE	<0.5 UJ	413 J		<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<0.1	<0.2	<0.05	<2.5	0.0695 J	<0.5
	P93B-ROX-012313	1/23/2013		45.89	NE	<5	415		<5	<5	<5	<5	<5	<1	<1	<2	<1	<2	<5	<5	<1	<2	<0.5	<25 UJ	<1	<5
	P93B-ROX-041113	4/11/2013		46.32	NE	<5	618		<5	<2.5	<2.5	<2.5	<2.5	<0.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<0.5	<1	<0.25	<13	<0.5	<2.5
	P93B-ROX-071813	7/18/2013		43.30	NE	<0.01	296		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.001 UJ	<0.05	0.0652	<0.005
	P93B-ROX-101613	10/16/2013		44.43	NE	<20	187		<10	<10	<10	<10	<10	<2	<2	<4	<2	<4	<10	<10	<2	<4	<1	<50	<2	<10 UJ
	P93B-ROX-101613-DUP	10/16/2013		44.43	NE	<20	180		<10	<10	<10	<10	<10	<2	<2	<4	<2	<4	<10	<10	<2	<4	<1	<50	<2	<10 UJ
	P93B-ROX-012814	1/28/2014	74.60 - 76.60	46.58	NE	<10	242		<5	<5	<5	<5	<5	<1	<1	<2	<1	<2	<5	<5	<1	<2	<0.5	<25	<1	<5
	P93B-ROX-012814-DUP	1/28/2014		46.58	NE	<10 UJ	293		<5 UJ	<5	<5	<5	<5	<1	<1	<2	<1	<2	<5	<5	<1	<2	<0.5	<25	<1	<5
P-93C	P93C-ROX-050611	5/6/2011	94.26 - 96.26	41.84	NE	<0.005	15.7		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0029	<0.005
	P93C-ROX-081811	8/18/2011		39.32	NE	<0.005	1.2		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	P93C-ROX-102611	10/26/2011		39.36	NE	<0.005 UJ	0.0014		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	P93C-ROX-012012	1/20/2012		41.57	NE	<0.005	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	P93C-ROX-050812	5/8/2012		42.68	NE	<0.005	0.0057		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	P93C-ROX-080912	8/9/2012		43.57	NE	<0.0056 UJ	0.00084		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	P93C-ROX-110812	11/8/2012		45.12	NE	<0.005	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	P93C-ROX-012313	1/23/2013		45.78	NE	<0.005	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025 UJ	<0.001	<0.005
	P93C-ROX-041213	4/12/2013		46.21	NE	<0.0056 UJ	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	P93C-ROX-071813	7/18/2013		43.31	NE	<0.01	101		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.001 UJ	<0.05	0.0041	<0.005
	P93C-ROX-080813	8/8/2013		43.31	NE	<0.5	19.1		<0.25	<0.25	<0.25	<0.25	<0.25	<0.05	<0.05	<0.1	<0.05	<0.1	<0.25	<0.25	<0.05	<0.1	<0.025	<1.3	<0.05	<0.25
	P93C-ROX-101613	10/16/2013		44.31	NE	<0.01	1.4		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005 UJ
	P93C-ROX-012414	1/24/2014	94.26 - 96.26	46.44	NE	<0.01 UJ	<0.0005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
P-93D	P93D-ROX-050511	5/5/2011	125.75 - 127.75	41.96	NE	<0.005	0.0287		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	P93D-ROX-081811	8/18/2011		39.46	NE	<0.005	0.0059		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	P93D-ROX-102711	10/27/2011		39.59	NE	<0.005	0.00097		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	P93D-ROX-012012	1/20/2012		41.77	NE	<0.005	0.0513		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	P93D-ROX-050812	5/8/2012		42.96	NE	<0.005	0.0056		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	P93D-ROX-080812	8/8/2012		43.71	NE	<0.005 UJ	0.0134		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	P93D-ROX-110812	11/8/2012		NM	NE	<0.005	0.049		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	P93D-ROX-012213	1/22/2013		44.21	NE	<0.005	0.106		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.00069 J	<0.005
	P93D-ROX-041113	4/11/2013		46.37	NE	<0.01	<0.0005		<0.01	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	P93D-ROX-071213	7/12/2013		43.51	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001 UJ	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	P93D-ROX-101113	10/11/2013		44.24	NE	<0.01	0.0014		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005 UJ
	P93D-ROX-013114	1/31/2014	125.75 - 127.75	46.62	NE	<0.01	0.0012		<0.005	<0.005	<0.005	<0.005	<0.005 UJ	<0.001	0.00062 J	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	0.0044	<0.0005	<0.025 UJ	<0.001	<0.005

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TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						VOCs																			
						Acetone[5]	Benzene	Butane[5]	2-Butanone[5]	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	4-Chlorotoluene	Cymene (p-isopropyltoluene)	1,1-Dichloroethane	1,2-Dichloropropane	trans-1,3-Dichloropropene	1,4-Dioxane	Ethylbenzene	Ethyl methacrylate
					Screening Values (mg/L)	6.3 [1]	0.005 [1]		4.2 [1]	0.35 [3]			0.7 [1]	0.005 [1]	0.1 [1]		0.0002 [2]				0.7 [2]	0.005 [2]	0.001 [2]	0.0077 [1]	0.7 [1]	
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																			
P-114	P114-ROX-102811	10/28/2011	32.67 - 52.67	24.73	NE	<0.005	<0.001		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	P114-ROX-012012	1/20/2012		27.17	NE	<0.005	0.0011 J		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	P114-ROX-050912	5/9/2012		28.09	NE	<0.005	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	P114-ROX-080912	8/9/2012		29.13	NE	<0.0756 UJ	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	P114-ROX-110912	11/9/2012		30.90	NE	<0.0144 UJ	<0.0005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025 UJ	<0.001	<0.005
	P114-ROX-012313	1/23/2013		30.22	NE	<0.005	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025 UJ	<0.001	<0.005
	P114-ROX-041513	4/15/2013		31.80	NE	<0.0059 UJ	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	P114-ROX-071813	7/18/2013		27.22	NE	<0.251 U	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	P114-ROX-071813-DUP	7/18/2013		27.22	NE	<0.245 U	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	P114-ROX-101713	10/17/2013		29.43	NE	0.0047 J	0.00074		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	P114-ROX-012814	1/28/2014	32.67 - 52.67	32.11	NE	0.142 J	0.0013		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
ROST-3-PZ	ROST3PZ-ROX-051412	5/14/2012	40.00 - 50.00	38.82	NE	<0.61 U	0.0074		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0167	<0.005
	ROST3PZ-ROX-080712	8/7/2012		39.00	NE	<0.005	0.0041		<0.005	<0.005	<0.005	0.00072 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0047	<0.005
	ROST3PZ-ROX-110112	11/1/2012		40.82	NE	<0.005	0.0052		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0018	<0.005
ROST-3-MW	ROST3MW-ROX-012313	1/23/2013	37.81 - 47.81	41.50	NE	<0.005	0.0051 J		<0.005	0.0028 J	0.0013 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0011 J	<0.001	<0.002	<0.0005	<0.025 UJ	0.0296	<0.005
	ROST3MW-ROX-040513	4/5/2013				<0.005 UJ	0.0605		<0.005	<0.005	0.0011 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0012 J	<0.001	<0.002	<0.0005	<0.025	0.0136	<0.005
	ROST3MW-ROX-071113	7/11/2013		39.50	NE	<0.01 UJ	0.0125		<0.005 UJ	<0.005	0.0014 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0014 J	<0.001	<0.002	<0.0005		0.218	<0.005
	ROST3-MW-ROX-100913	10/9/2013		40.16	NE	<0.01	0.0033		<0.0164	0.00073 J	<0.005	<0.005	<0.005	<0.001	<0.001	0.0034	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0182	<0.005
	ROST3MW-ROX-011714	1/17/2014	37.81 - 47.81	42.20	NE	<0.01	0.004		<0.005	0.0012 J	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.008	<0.005
ROST-4-PZ(C)	ROST4PZ-C-051412	5/14/2012	34.95 - 44.95	39.04	NE	<0.005	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001	<0.005
	ROST4PZ-C-ROX-072512	7/25/2012		39.10	NE	<0.005	0.0849		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.177	<0.005
	ROST4PZC-ROX-102912	10/29/2012		40.75	NE	<0.005 UJ	0.0033		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0014	<0.005
	ROST4PZ(C)-ROX-011113	1/11/2013		41.42	NE	<0.005	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0013	<0.005
	ROST4PZC-ROX-041013	4/10/2013		42.27	NE	<0.01	0.0153 J		<0.01	<0.005	<0.005	<0.005	<0.005	<0.001 UJ	<0.001 UJ	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002 UJ	<0.0005 UJ	<0.025	0.0028 J	<0.005
	ROST4PZC-ROX-071113	7/11/2013		40.18	NE	<0.01 UJ	0.0497		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005		0.0651	<0.005
	ROST4PZC-ROX-100913	10/9/2013		39.91	NE	<0.01	0.00066		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0064	<0.005
	ROST4PZC-ROX-011714	1/17/2014	34.95 - 44.95	41.92	NE	<0.01	0.0015		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0039	<0.005
T-12	T12-ROX-102711	10/27/2011	46.72 - 72.72	38.54	NE	<0.05	1.09		<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.02	<0.01	<0.02	<0.05	<0.05	<0.01	<0.02	<0.005	<0.25	0.648	<0.05
	T12-ROX-011912	1/19/2012		41.0	NE	<0.005	1.51		<0.005	0.0062	0.0022 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0024 J	<0.001	<0.002	<0.0005	<0.025	0.285	<0.005
	T12-ROX-050912	5/9/2012		42.62	NE	<0.025	1.48		<0.025	<0.025	<0.025	<0.025	<0.025	<0.005	<0.005	<0.01	<0.005	<0.01	<0.025	<0.025	<0.005	<0.01	<0.0025	<0.13	1.88	<0.025
	T12-ROX-080212	8/2/2012		41.92	NE	<0.05 UJ	1.64		<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.02	<0.01	<0.02	<0.05	<0.05	<0.01	<0.02	<0.005		0.573	<0.05
	T12-ROX-110512	11/5/2012		43.91	NE	<0.05	1.71		<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.02	<0.01	<0.02	<0.05	<0.05	<0.01	<0.02	<0.005	<0.25	1.73	<0.05
	T12-ROX-011813	1/18/2013		44.50	NE	<0.025	2.03 J		<0.0795 U	0.0056 J	0.0036 J	<0.025	<0.025	<0.005	<0.005	<0.01	<0.005	<0.01	<0.025	<0.025	<0.005	<0.01	<0.0025	<0.13 UJ	0.426	<0.025
	T12-ROX-041513	4/15/2013		44.99	NE	<0.1 UJ	1.61		<0.05	<0.05	0.0595	<0.05	<0.05	<0.01	<0.01	<0.02	<0.01	<0.02	<0.05	<0.05	<0.01	<0.02	<0.005	<0.25	1.03	<0.05
	T12-ROX-071613	7/16/2013		42.33	NE	<0.01	1.65		<0.005	0.0069 J	0.003 J J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0025 J J	<0.001	<0.002	<0.0005	<0.025	0.45	<0.005
	T12-ROX-101513	10/15/2013		43.73	NE	0.0803	2.02		0.0246 J	0.0098 J	0.0038 J	<0.025	<0.025	<0.005	<0.005	<0.01	<0.005	<0.01	<0.025	<0.025	<0.005	<0.01	<0.0025	<0.13	1.82	<0.025
	T12-ROX-012414	1/24/2014	46.72 - 72.72	45.26	NE	<0.01	2.48		<0.005	0.0083	0.0029 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.518	<0.005

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TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						VOCs																				
						Hexachlorobutadiene	Hexane[6]	2-Hexanone (Methyl N-Butyl Ketone)	Isopentane[6]	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methyl tert-Butyl Ether (MTBE)	Naphthalene[4]	n-Propylbenzene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,2-Trichloroethane	1,2,3-Trimethylbenzene[6]	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)
					Screening Values (mg/L)	0.007 [3]	0.42 [3]	0.035 [3]		0.7 [1]	0.56 [3]	0.07 [1]	0.14 [1]	0.7 [3]	1.0 [1]	0.0056 [3]	0.07 [1]	0.005 [1]			0.07 [3]	7.0 [2]	10 [1]		10 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
MW-01	MW1-ROX-042911	4/29/2011	43.41 - 58.41	38.37	NE	<0.005		<0.005		<0.005	<0.005	0.0027	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.0016	<0.001	0.0016
	MW1-ROX-072711	7/27/2011		35.77	NE	<0.005		<0.005		<0.005	<0.005	0.0055	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW1-ROX-120511	12/5/2011		37.10	NE	<0.005		<0.005		<0.005	<0.005	0.0027	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW1-ROX-011612	1/16/2012	48.80 - 58.80	37.75	NE	<0.005		<0.005		<0.005	<0.005	0.0032	0.000079 J	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW1-ROX-050112	5/1/2012		39.09	NE	<0.005		<0.005		<0.005	<0.005	0.0031	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW1-ROX-073012	7/30/2012		39.39	NE	<0.005		<0.005		<0.005	<0.005	0.0022	0.0001 J	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW1-ROX-102612	10/26/2012		41.22	NE																				
	MW1-ROX-121712	12/17/2012		41.22	NE	<0.005		<0.005		<0.005	<0.005	0.0022	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW1-ROX-011013	1/10/2013		41.89	NE	<0.005		<0.005		<0.005	<0.005	0.0015	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW1-ROX-040913	4/9/2013		42.55	NE	<0.005		<0.005		<0.005	<0.005	0.0012	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW1-ROX-070813	7/8/2013		39.56	NE	<0.005		<0.005		<0.005	<0.005	0.0049	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW1-ROX-100313	10/3/2013		40.28	NE	<0.005		<0.005		<0.005	<0.005	0.0013	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW1-ROX-011414	1/14/2014	48.80 - 58.80	42.77	NE	<0.005		<0.005		<0.005	<0.005	0.0018	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
MW-02	MW02-ROX-051011	5/10/2011	47.19 - 62.19	39.14	NE	<0.005		<0.005		0.0539	<0.005	<0.001	0.0545 J	0.0669	3.51	<0.005	<0.005	<0.001		0.339	0.103	<0.005	2.05	0.549	2.6
	MW2-ROX-072711	7/27/2011		37.04	NE	<0.05		<0.05		0.0995	<0.05	<0.01	0.0671	0.111	4.69	<0.05	<0.05	<0.01		0.338	0.116	<0.05	2.91	0.823	3.74
	MW2-ROX-072711-DUP	7/27/2011		37.04	NE	<0.05		<0.05		0.0967	<0.05	<0.01	0.0659	0.1	4.67	<0.05	<0.05	<0.01		0.298	0.108	<0.05	2.63	0.728	3.36
	MW2-ROX-112811	11/28/2011	49.87 - 59.87	38.03	NE	<0.005		<0.005		0.128	<0.005	<0.001	0.0777	0.146	0.0328	<0.005	<0.005	<0.001		0.407	0.212	<0.005	0.747	0.0574	0.804
	MW2-ROX-011612	1/16/2012		38.89	NE	<0.025		<0.025		0.0832	<0.025	<0.005	0.0859	0.0993	0.0375	<0.025	<0.025	<0.005		0.388	0.162	<0.025	0.857	0.056	0.913
	MW2-ROX-050112	5/1/2012		40.25	NE	<0.025		<0.025		0.0886	<0.025	<0.005	0.0497	0.119	0.0445	<0.025	<0.025	<0.005		0.413	0.154	<0.025	1.14	0.0797	1.22
	MW2-ROX-073012	7/30/2012		40.60	NE	<0.005		<0.005		0.0818	<0.005	<0.001	0.0554	0.116	0.0374	<0.005	<0.005	<0.001		0.338	0.135	<0.005	1.27	0.0906	1.34
	MW2-ROX-102612	10/26/2012		42.35	NE	<0.025		<0.025		0.0764	<0.025	0.0115	0.0821	0.104	0.0216	<0.025	<0.025	<0.005		0.299	0.129	<0.025	0.878	0.052	0.93
	MW2-ROX-011113	1/11/2013		42.94	NE	<0.01		<0.01		0.0879	<0.01	<0.002	0.0768	0.121	0.0093	<0.01	<0.01	<0.002		0.219	0.105	<0.01	0.685	0.0287	0.713
	MW2-ROX-040913	4/9/2013		43.70	NE	<0.025		<0.025		0.085	<0.025	<0.005	0.0578	0.11	0.0073	<0.025	<0.025	<0.005		0.338	0.155	<0.025	1.01	0.0454	1.05
	MW2-ROX-071113	7/11/2013		40.82	NE	<0.005		<0.005 UJ		0.0931	<0.005	0.0062	0.114	0.127	0.11	<0.005	<0.005	<0.001		0.522	0.175	<0.005 UJ	1.88	0.174	1.88
	MW2-ROX-100813	10/8/2013		41.73	NE	<0.005		0.0079		0.0983	<0.005	0.0032	0.0939	0.132	0.0164	<0.005	<0.005	<0.001		0.368	0.174	0.0768	0.912	0.0519	0.912
	MW2-ROX-012014	1/20/2014	49.87 - 59.87	44.00	NE	<0.005		<0.005		0.102	<0.005	<0.001	0.0663	0.133	0.0099	<0.005	<0.005	<0.001		0.264	0.156	<0.005	0.486	0.0304	0.516
MW-03	MW03-ROX-051011	5/10/2011	30.98 - 45.98	24.79	NE	<0.005		<0.005		<0.005	<0.005	0.0026	0.00011 J	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.0022	<0.001	0.0022
	MW3-ROX-080311	8/3/2011		22.72	NE	<0.005		<0.005		0.0012 J	<0.005	<0.001	<0.000083 U	<0.005	0.0015	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW3-ROX-112911	11/29/2011	34.67 - 44.67	24.06	NE	<0.005		<0.005		<0.005	<0.005	0.0014	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW3-ROX-112911-DUP	11/29/2011		24.06	NE	<0.005		<0.005		<0.005	<0.005	0.0014	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW3-ROX-011612	1/16/2012		24.93	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW3-ROX-043012	4/30/2012		26.19	NE	<0.005		<0.005		<0.005	<0.005	0.0039	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW3-ROX-072712	7/27/2012		26.60	NE	<0.005		<0.005 UJ		<0.005	<0.005	<0.001	<0.00011	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW3-ROX-102512	10/25/2012		28.39	NE	<0.005		<0.005		<0.005	<0.005	0.0027	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW3-ROX-010913	1/9/2013		29.35	NE	<0.005		<0.005		<0.005	<0.005	0.0008 J	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	0.007	<0.001	<0.001	<0.001
	MW3-ROX-040813	4/8/2013		29.74	NE	<0.005		<0.005		<0.005	<0.005	<0.001 UJ	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW3-ROX-071113	7/11/2013		26.32	NE	<0.005		<0.005 UJ		0.0049 J	<0.005	0.0035	<0.005	0.0055	0.0013	<0.005	<0.005	<0.001		0.0013 J	<0.005	<0.005 UJ	0.0028	<0.001	0.0028
	MW3-ROX-100813	10/8/2013		27.38	NE	<0.005		<0.005		<0.005	<0.005	0.00075 J	<0.005	0.0021 J	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	0.0197	0.0011	<0.001	0.0011
	MW3-ROX-011614	1/16/2014	34.67 - 44.67	29.91	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005 UJ	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						VOCs																				
						Hexachlorobutadiene	Hexane[6]	2-Hexanone (Methyl N-Butyl Ketone)	Isopentane[6]	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methyl tert-Butyl Ether (MTBE)	Naphthalene[4]	n-Propylbenzene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,2-Trichloroethane	1,2,3-Trimethylbenzene[6]	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)
					Screening Values (mg/L)	0.007 [3]	0.42 [3]	0.035 [3]		0.7 [1]	0.56 [3]	0.07 [1]	0.14 [1]	0.7 [3]	1.0 [1]	0.0056 [3]	0.07 [1]	0.005 [1]			0.07 [3]	7.0 [2]	10 [1]		10 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
MW-04	MW04-ROX-051111	5/11/2011	42.63 - 57.63	36.19	NE	<0.005		<0.005		0.0036 J	<0.005	0.0096	<0.0001 UJ	0.0037 J	0.0125	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.0096	0.0016	0.0111
	MW4-ROX-072611	7/26/2011		34.15	NE	<0.005		<0.005		0.0088	<0.005	0.0113	0.00025	0.0085	0.017	<0.005	<0.005	<0.001		<0.005	0.0052	<0.005	0.0067	<0.001	0.0067
	MW4-ROX-072611-DUP	7/26/2011		34.15	NE	<0.005		<0.005		0.0088	<0.005	0.0103	0.00021	0.0083	0.0162	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.0063	<0.001	0.0063
	MW4-ROX-121511	12/15/2011		33.99	NE	<0.005		<0.005		<0.005	<0.005	0.0073 J	0.00023	<0.005	0.0092	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.0069	0.001	0.0079
	MW4-ROX-011612	1/16/2012	46.06 - 56.06	36.00	NE	<0.005		<0.005		0.0061	<0.005	<0.001	<0.0001	0.0061	0.0283	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.0148	0.0025	0.0173
	MW4-ROX-050312	5/3/2012		37.45	NE	<0.005		<0.005		0.0038 J	<0.005	0.0174	<0.0001	<0.005	0.0255	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.016	0.003	0.0189
	MW4-ROX-050312-DUP	5/3/2012		37.45	NE	<0.005		<0.005		0.0036 J	<0.005	0.0162	<0.0001	0.0043 J	0.0252	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.0151	0.0031	0.0182
	MW4-ROX-072512	7/25/2012		37.63	NE	<0.005 UJ		<0.005		0.0061	<0.005	0.015	<0.0001	0.0071	0.0418	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.0221	0.0042	0.0262
	MW4-ROX-072512-Dup	7/25/2012		37.63	NE	<0.005 UJ		<0.005		0.0063	<0.005	0.0154	<0.0001	0.0072	0.0427	<0.005	<0.005	<0.001		0.00068 J	0.0057	<0.005	0.0214	0.0043	0.0257
	MW4-ROX-102912	10/29/2012		39.45	NE	<0.01		<0.01		0.0029 J	<0.01	0.0324	<0.01	0.0033 J	0.0175	<0.01	<0.01	<0.002		<0.01	<0.01	<0.01	0.0114	<0.002	0.0114
	MW4-ROX-011113	1/11/2013		40.20	NE	<0.005		<0.005		0.0012 J	<0.005	0.0654	<0.005	0.0026 J	0.0075	<0.005	<0.005	<0.001		0.0019 J	0.0024 J	<0.005	0.0056	<0.001	0.0056
	MW4-ROX-011113-DUP	1/11/2013		40.20	NE	<0.005		<0.005		0.0014 J	<0.005	0.0681	<0.005	0.003 J	0.0083	<0.005	<0.005	<0.001		0.0019 J	0.0026 J	<0.005	0.006	<0.001	0.006
	MW4-ROX-030413	3/4/2013		40.20	NE	<0.5		<0.5		<0.5	<0.5	0.112	<0.5	<0.5	<0.1	<0.5	<0.5	<0.1		<0.5	<0.5	<0.5	<0.1	<0.1	<0.1
	MW4-ROX-040913	4/9/2013		40.90	NE	<0.01		<0.01		<0.01	<0.01	0.112	<0.01	<0.01	0.0057	<0.01	<0.01	<0.002		<0.01	<0.01	<0.01	0.0052	<0.002	0.0062
	MW4-ROX-040913-DUP	4/9/2013		40.90	NE	<0.005		<0.005		<0.005	<0.005	0.125	<0.005	0.004 J	0.0076	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.0073	0.0011	0.0084
	MW4-ROX-071713	7/17/2013		37.61	NE	<0.005		0.0041 J		0.0067	<0.005	0.0559 J	<0.005	0.008	0.0381	<0.005	<0.005	0.00085 J		0.0012 J	<0.005	0.0392 J	0.0302	0.0052	0.0353
	MW4-ROX-101613	10/16/2013		38.80	NE	<0.05		<0.05		<0.05	<0.05	0.0333 J	<0.05	<0.05	<0.01	<0.05	<0.05	<0.01		<0.05	<0.05	<0.05 UJ	<0.01	<0.01	0.0058 J
	MW4-ROX-013014	1/30/2014	46.06 - 56.06	41.09	NE	<0.005		<0.005		0.0021 J	<0.005	<0.001	<0.005	0.0026 J	0.0037	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.0132	0.0049	0.0181
MW-05	MW05-ROX-051211	5/12/2011	31.13 - 46.13	23.98	NE	<0.005		<0.005		<0.005	<0.005	0.0085	<0.00011 UJ	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	0.0035	<0.001	0.0035
	MW5-ROX-072611	7/26/2011		22.00	NE	<0.005		<0.005		0.0161	<0.005	0.0031	<0.0001 U	0.0105	0.0017	<0.005	<0.005	<0.001		<0.005	0.0055	<0.005	0.0074	<0.001	0.0074
	MW5-ROX-072611-DUP	7/26/2011		22.00	NE	<0.005		<0.005		0.016	<0.005	0.0031	<0.00015 U	0.0104	0.0016	<0.005	<0.005	<0.001		<0.005	0.0055	<0.005	0.0068	<0.001	0.0068
	MW5-ROX-112111	11/21/2011	33.97 - 43.97	23.46	NE	<0.005		<0.005		<0.005	<0.005	0.0069	<0.00014 U	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW5-ROX-011712	1/17/2012		24.76	NE	<0.005		<0.005		<0.005	<0.005	0.0187	<0.00011	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.00081 U
	MW5-ROX-050312	5/3/2012		25.89	NE	<0.005		<0.005		0.001 J	<0.005	0.022	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW5-ROX-072512	7/25/2012		26.18	NE	<0.005 UJ		<0.005		0.0066	<0.005	0.013	0.00032	0.0018 J	0.0032	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.008	0.0017	0.0097
	MW5-ROX-102912	10/29/2012		28.16	NE	<0.005		<0.005		0.002 J	<0.005	0.0219	<0.005	<0.005	0.0018	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.0018	<0.001	0.0018
	MW5-ROX-011113	1/11/2013		28.75	NE	<0.005		<0.005		0.00086 J	<0.005	0.0295	<0.005	<0.005	0.0008 J	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW5-ROX-040913	4/9/2013		29.41	NE	<0.005		<0.005		0.00085 J	<0.005	0.0427	<0.005	<0.005	0.002	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.001	<0.001	0.0014
	MW5-ROX-070913	7/9/2013		26.04	NE	<0.005		<0.005		0.0268	<0.005	0.0121	<0.005	0.0132	0.0029	<0.005	<0.005	0.0018		<0.005	<0.005	<0.005 UJ	0.0079	0.0018	0.0097
	MW5-ROX-100813	10/8/2013		26.97	NE	<0.005		<0.005		0.0045 J	<0.005	0.0221	<0.005	<0.005	0.002	<0.005	<0.005	<0.001		<0.005	<0.005	0.0129	0.0044	0.00097 J	0.0054
	MW5-ROX-011714	1/17/2014	33.97 - 43.97	29.59	NE	<0.005		<0.005		0.00097 J	<0.005	0.0282	<0.005	<0.005	0.0014	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.0081	0.0045	0.0127
MW-06A	MW6A-ROX-051611	5/16/2011	34.83 - 44.83	26.10	NE	<0.005		<0.005 UJ		<0.005	<0.005	0.0277	<0.0001 UJ	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-072611	7/26/2011		23.76	NE	<0.005		<0.005		<0.005	<0.005	0.0237	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-112111	11/21/2011		25.49	NE	<0.005		<0.005		<0.005	<0.005	0.0169	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-112111-DUP	11/21/2011		25.49	NE	<0.005		<0.005		<0.005	<0.005	0.0181	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-011712	1/17/2012		26.74	NE	<0.005		<0.005		<0.005	<0.005	0.0185	<0.00011	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-050212	5/2/2012		27.77	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-080112	8/1/2012		28.36	NE	<0.005		<0.005		<0.005	<0.005	0.0019	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-102412	10/24/2012		30.06	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-011413	1/14/2013		31.00	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-040313	4/3/2013		31.62	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-070913	7/9/2013		28.25	NE	<0.005		<0.005		<0.005	<0.005	0.0027	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW6A-ROX-070913-DUP	7/9/2013		28.25	NE	<0.005		<0.005		<0.005	<0.005	0.0025	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW6A-ROX-100713	10/7/2013		28.87	NE	<0.005		<0.005 UJ		<0.005	<0.005	0.0131	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-100713-DUP	10/7/2013		28.87	NE	<0.005		<0.005 UJ		<0.005	<0.005	0.0132	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-011614	1/16/2014	34.83 - 44.83	31.62	NE	<0.005		<0.005		<0.005	<0.005	0.0108	<0.005 UJ	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-011614-DUP	1/16/2014		31.62	NE	<0.005		<0.005		<0.005	<0.005	0.0103	<0.005 UJ	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						VOCs																				
						Hexachlorobutadiene	Hexane[6]	2-Hexanone (Methyl N-Butyl Ketone)	Isopentane[6]	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methyl tert-Butyl Ether (MTBE)	Naphthalene[4]	n-Propylbenzene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,2-Trichloroethane	1,2,3-Trimethylbenzene[6]	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)
					Screening Values (mg/L)	0.007 [3]	0.42 [3]	0.035 [3]		0.7 [1]	0.56 [3]	0.07 [1]	0.14 [1]	0.7 [3]	1.0 [1]	0.0056 [3]	0.07 [1]	0.005 [1]			0.07 [3]	7.0 [2]	10 [1]		10 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
MW-06B	MW6B-ROX-051611	5/16/2011	64.05 - 69.05	25.95	NE	<0.005		<0.005 UJ		<0.005	<0.005	0.0029	<0.000095 UJ	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6B-ROX-051611-DUP	5/16/2011		25.95	NE	<0.005		<0.005 UJ		<0.005	<0.005	0.0031	0.000044 J J	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6B-ROX-072311	7/23/2011		23.60	NE	<0.005		<0.005		<0.005	<0.005	0.0049	0.0012 B	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW6B-ROX-110311	11/3/2011		24.67	NE	<0.05		<0.05		<0.05	<0.05	0.036 J	<0.0001	<0.05	<0.01	<0.05	<0.05	<0.01		<0.05	<0.05	<0.05	<0.01	<0.01	<0.01
	MW6B-ROX-011712	1/17/2012		26.77	NE	<0.005		<0.005		<0.005	<0.005	0.0049	<0.00011	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6B-ROX-050212	5/2/2012		27.82	NE	<0.005		<0.005		<0.005	<0.005	0.0115	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6B-ROX-080112	8/1/2012		28.39	NE	<0.005		<0.005		<0.005	<0.005	0.0122	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6B-ROX-102412	10/24/2012		30.11	NE	<0.005		<0.005		<0.005	<0.005	0.0091	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6B-ROX-011713	1/17/2013		31.11	NE	<0.005		<0.005		<0.005	<0.005	0.0166	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6B-ROX-040313	4/3/2013		31.68	NE	<0.005		<0.005		<0.005	<0.005	0.0132	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6B-ROX-070913	7/9/2013		28.25	NE	<0.005		<0.005		<0.005	<0.005	0.0069	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW6B-ROX-100713	10/7/2013		28.93	NE	<0.005		<0.005 UJ		<0.005	<0.005	0.0113	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6B-ROX-011614	1/16/2014	64.05 - 69.05	31.67	NE	<0.005		<0.005		<0.005	<0.005	0.0069	<0.005 UJ	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
MW-06C	MW6C-ROX-051611	5/16/2011	84.95 - 89.95	25.76	NE	<0.005		<0.005 UJ		<0.005	<0.005	0.0034	<0.0001 UJ	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6C-ROX-072411	7/24/2011		23.43	NE	<0.005		<0.005		<0.005	<0.005	0.0027	0.00075 B	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW6C-ROX-110311	11/3/2011		24.47	NE	<0.005		<0.005		<0.005	<0.005	0.0039 J	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6C-ROX-011712	1/17/2012		26.50	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.00011	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6C-ROX-050212	5/2/2012		27.62	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6C-ROX-080112	8/1/2012		28.15	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6C-ROX-102412	10/24/2012		27.85	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6C-ROX-011713	1/17/2013		30.88	NE	<0.005 UJ		<0.005 UJ		<0.005 UJ	<0.005 UJ	0.0012 J	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ		<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.001 UJ	<0.001 UJ
	MW6C-ROX-040313	4/3/2013		31.41	NE	<0.005		<0.005		<0.005	<0.005	0.0022	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6C-ROX-070913	7/9/2013		28.03	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW6C-ROX-100713	10/7/2013		28.72	NE	<0.005		<0.005 UJ		<0.005	<0.005	0.00075 J	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6C-ROX-011614	1/16/2014	84.95 - 89.95	31.48	NE	<0.005		<0.005		<0.005	<0.005	0.00068 J	<0.005 UJ	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
MW-06D	MW6D-ROX-051611	5/16/2011	104.72 - 109.72	25.60	NE	<0.005		<0.005 UJ		<0.005	<0.005	<0.001	<0.00011 UJ	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6D-ROX-072311	7/23/2011		23.29	NE	<0.005		<0.005		<0.005	<0.005	<0.001	0.00074 B	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW6D-ROX-110311	11/3/2011		24.31	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6D-ROX-011712	1/17/2012		26.33	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.00016 U	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6D-ROX-050212	5/2/2012		27.45	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6D-ROX-080212	8/2/2012		30.56	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6D-ROX-102412	10/24/2012		29.71	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6D-ROX-011713	1/17/2013		30.75	NE	<0.005 UJ		<0.005 UJ		<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ		<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.001 UJ	<0.001 UJ
	MW6D-ROX-040313	4/3/2013		31.27	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6D-ROX-070913	7/9/2013		27.91	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW6D-ROX-100713	10/7/2013		28.58	NE	<0.005		<0.005 UJ		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6D-ROX-011614	1/16/2014	104.72 - 109.72	31.33	NE	<0.005		<0.005		<0.005	<0.005	0.00061 J	<0.005 UJ	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
MW-07	MW07-ROX-051311	5/13/2011	42.92 - 52.92	37.50	NE	<0.005 UJ		<0.005 UJ		0.0061 J	<0.005 UJ	0.0109 J	0.0114 J	0.0078 J	0.128 J	<0.005 UJ	<0.005 UJ	<0.001 UJ		0.0822 J	0.0193 J	<0.005 UJ	0.101 J	0.0418 J	0.143 J
	MW07-ROX-051311D	5/13/2011		37.50	NE	<0.005		<0.005		0.006	<0.005	0.012	0.011 J	0.0078	0.126	<0.005	<0.005	<0.001		0.0825	0.0193	<0.005	0.0984	0.0405	0.139
	MW7-ROX-072411	7/24/2011		35.65	NE	<25		<25		<25	<25	<5	0.0081	<25	<5	<25	<25	<5		<25	<25	<25 UJ	<5	<5	<5
	MW-7-ROX-110211	11/2/2011		35.95	NE	<5		<5		<5	<5	<1	0.0113	<5	<1	<5	<5	<1		<5	<5	<5	<1	<1	<1
	MW7-ROX-011812	1/18/2012		38.10	NE	<0.005		<0.005		0.0101	<0.005	0.0022	0.0134	0.0135	0.158	<0.005	<0.005	<0.001		0.148	0.0341	<0.005	0.137	0.0527	0.19
	MW7-ROX-011812-DUP	1/18/2012		38.10	NE	<0.005		<0.005		0.01	<0.005	0.0024	0.0138	0.0138	0.156	<0.005	<0.005	<0.001		0.146	0.0332	<0.005	0.134	0.051	0.184
	MW7-ROX-050412	5/4/2012		39.19	NE	<0.5		<0.5		<0.5	<0.5	<0.1	0.0158	<0.5	0.101	<0.5	<0.5	<0.1		<0.5	<0.5	<0.5	<0.1	<0.1	<0.1
	MW7-ROX-080712	8/7/2012		39.50	NE	<0.05		<0.05		<0.05	<0.05	<0.01	0.0089	0.0102 J	0.0629	<0.05	<0.05	<0.01		0.1	0.021 J	<0.05	0.12	0.0486	0.169
	MW7-ROX-103012	10/30/2012		41.23	NE	<10		<10		<10	<10	<2	<10	<10	<2	<10	<10	<2		<10	<10	<10	<2	<2	<2
	MW7-ROX-103012-DUP	10/30/2012		41.23	NE	<10		<10		<10	<10	<2	<10	<10	<2	<10	<10	<2		<10	<10	<10	<2	<2	<2
	MW7-ROX-011513	1/15/2013		42.21	NE	<20		<20		<20	<20	<4	<20	<20	<4	<20	<20	<4		<20	<20	<20	<4	<4	<4
	MW7-ROX-011513-DUP	1/15/2013		42.21	NE	<20		<20		<20	<20	<4	<20	<20	<4	<20	<20	<4		<20	<20	<20	<4	<4	<4
	MW7-ROX-041013	4/10/2013		42.70	NE	<10		<10		<10	<10	<2	<10	<10	<2	<10	<10	<2		<10	<10	<10	<2	<2	<2
	MW7-ROX-041013-DUP	4/10/2013		42.70	NE	<10		<10		<10	<10	<2	<10	<10	<2	<10	<10	<2		<10	<10	<10	<2	<2	<2
	MW7-ROX-071713	7/17/2013		39.60	NE	<0.005		<0.005		0.0096 J	<0.005	0.0031 J	0.0185 J	0.0173 J	0.289 J	<0.005	<0.005	<0.001		0.117 J	0.0264 J	0.0094 J	0.455 J	0.183 J	0.639 J
	MW7-ROX-101613	10/16/2013		40.64	NE	<10		<10		<10	<10	<2 UJ	<10	<10	<2	<10	<10	<2		<10	<10	<10 UJ	<2	<2	<2
	MW7-ROX-013014	1/30/2014	42.92 - 52.92	42.94	NE	<13		<13		<13	<13	<2.5	<13	<13	<2.5	<13	<13	<2.5		<13	<13	<13	<2.5	<2.5	<2.5

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						VOCs																				
						Hexachlorobutadiene	Hexane[6]	2-Hexanone (Methyl N-Butyl Ketone)	Isopentane[6]	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methyl tert-Butyl Ether (MTBE)	Naphthalene[4]	n-Propylbenzene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,2-Trichloroethane	1,2,3-Trimethylbenzene[6]	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)
					Screening Values (mg/L)	0.007 [3]	0.42 [3]	0.035 [3]		0.7 [1]	0.56 [3]	0.07 [1]	0.14 [1]	0.7 [3]	1.0 [1]	0.0056 [3]	0.07 [1]	0.005 [1]			0.07 [3]	7.0 [2]	10 [1]		10 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
MW-08	MW08-ROX-051311	5/13/2011	33.60 - 43.60	28.35	NE	<50		<50		<50	<50	<10	0.0241 J	<50	<10	<50	<50	<10		<50	<50	<50	<10	<10	<10
	MW08-ROX-051311D	5/13/2011		28.35	NE	<5		<5		<5	<5	0.657 J	0.0288 J	<5	<1	<5	<5	<1		<5	<5	<5	<1	<1	<1
	MW8-ROX-072411	7/24/2011		26.02	NE	<25		<25		<25	<25	<5	0.0237	<25	<5	<25	<25	<5		<25	<25	<25 UJ	<5	<5	<5
	MW8-ROX-072411-DUP	7/24/2011		26.02	NE	<25		<25		<25	<25	<5	0.023	<25	<5	<25	<25	<5		<25	<25	<25 UJ	<5	<5	<5
	MW-8-ROX-110211	11/2/2011		27.02	NE	<5		<5		<5	<5	4.94 J	0.0282	<5	<1	<5	<5	<1		<5	<5	<5	<1	<1	<1
	MW8-ROX-011812	1/18/2012		29.15	NE	<0.005		<0.005		0.0162	<0.005	1.41 J	0.0239	0.0377	<2	<0.005	<0.005	<0.001		0.163	0.061	<0.005	0.574	0.219	0.794
	MW8-ROX-050412	5/4/2012		30.21	NE	<0.5		<0.5		<0.5	<0.5	4.15	0.0186	<0.5	1.55	<0.5	<0.5	<0.1		<0.5	<0.5	<0.5	0.978	0.37	1.35
	MW8-ROX-050412-DUP	5/4/2012		30.21	NE	<0.5		<0.5		<0.5	<0.5	4.07	0.0188	<0.5	1.52	<0.5	<0.5	<0.1		<0.5	<0.5	<0.5	0.939	0.381	1.32
	MW8-ROX-080712	8/7/2012		30.97	NE	<0.1		<0.1		<0.1	<0.1	0.878	0.0164	0.0191 J	0.781	<0.1	<0.1	<0.02		0.104	0.0299 J	<0.1	0.623	0.246	0.868
	MW8-ROX-080712-DUP	8/7/2012		30.97	NE	<0.05		<0.05		<0.05	<0.05	0.885	0.0164	0.0176 J	0.729	<0.05	<0.05	<0.01		0.0921	0.0265 J	<0.05	0.598	0.235	0.833
	MW8-ROX-103012	10/30/2012		32.32	NE	<5		<5		<5	<5	<1	<5	<5	<5	<1	<5	<1		<5	<5	<5	<1	<1	<1
	MW8-ROX-011513	1/15/2013		33.30	NE	<10		<10		<10	<10	<2	<10	<10	2.09	<10	<10	<2		<10	<10	<10	<2	<2	<2
	MW8-ROX-041013	4/10/2013		33.77	NE	<25		<25		<25	<25	<5	<25	<25	<5	<25	<25	<5		<25	<25	<25	<5	<5	<5
	MW8-ROX-071713	7/17/2013		30.43	NE	<0.005		<0.005		0.0173	<0.005	0.197 J	0.0335	0.0374	0.348	<0.005	<0.005	<0.001		0.199	0.0598	<0.005 UJ	1.01	0.361	1.3
	MW8-ROX-071713-DUP	7/17/2013		30.43	NE	<0.005		<0.005		0.0174	<0.005	0.187 J	0.0347	0.0383	0.341	<0.005	<0.005	<0.001		0.203	0.0613	<0.005 UJ	0.818 J	0.364	1.05
	MW8-ROX-101613	10/16/2013		31.59	NE	<10		<10		<10	<10	<2 UJ	<10	<10	<2	<10	<10	<2		<10	<10	<10 UJ	<2	<2	<2
	MW8-ROX-101613-DUP	10/16/2013		31.59	NE	<10		<10		<10	<10	<2 UJ	<10	<10	<2	<10	<10	<2		<10	<10	<10 UJ	<2	<2	<2
	MW8-ROX-013014	1/30/2014	33.60 - 43.60	34.02	NE	<13		<13		<13	<13	1.92 J	<13	<13	<2.5	<13	<13	<2.5		<13	<13	<13	<2.5	<2.5	<2.5
	MW8-ROX-013014-DUP	1/30/2014		34.02	NE	<13		<13		<13	<13	1.99 J	<13	<13	<2.5	<13	<13	<2.5		<13	<13	<13	<2.5	<2.5	<2.5
MW-09	MW09-ROX-050611	5/6/2011	46.45 - 56.45	40.12	NE	<0.005		<0.005 UJ		<0.005	<0.005	<0.001	<0.000097 UJ	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW9-ROX-072311	7/23/2011		38.06	NE	<0.005		<0.005		<0.005	<0.005	<0.001	0.001 B	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW9-ROX-110111	11/1/2011		37.78	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW9-ROX-011612	1/16/2012		39.50	NE	<0.005		<0.005		<0.005	<0.005	<0.001	0.000062 J	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW9-ROX-050312	5/3/2012		41.03	NE	<0.005		<0.005		<0.005	<0.005	<0.001		<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW9-ROX-072712	7/27/2012		41.30	NE	<0.005		<0.005 UJ		<0.005	<0.005	<0.001	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW9-ROX-102912	10/29/2012		43.17	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW9-ROX-011113	1/11/2013		43.90	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW9-ROX-040913	4/9/2013		44.67	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW9-ROX-070813	7/8/2013		42.35	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW9-ROX-100313	10/3/2013		42.27	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW9-ROX-011414	1/14/2014	46.45 - 56.45	44.47	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
MW-10	MW10-ROX-042811	4/28/2011	44.43 - 54.43	40.20	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.0048	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW10-ROX-072311	7/23/2011		38.01	NE	<0.005		<0.005		<0.005	<0.005	<0.001	0.00062 B	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW10-ROX-110111	11/1/2011		37.72	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW10-ROX-011612	1/16/2012		39.28	NE	<0.005		<0.005		<0.005	<0.005	<0.001	0.000047 J	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW10-ROX-050112	5/1/2012		40.86	NE	<0.005		<0.005		<0.005	<0.005	<0.001	0.000052 J	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW10-ROX-072712	7/27/2012		41.21	NE	<0.005		<0.005 UJ		<0.005	<0.005	<0.001	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW10-ROX-102612	10/26/2012		43.08	NE																				
	MW10-ROX-121712	12/17/2012		43.08	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	0.00058 J
	MW10-ROX-011013	1/10/2013		44.10	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	0.016	<0.001	<0.001	<0.001
	MW10-ROX-012113	1/21/2013		44.10	NE	<0.005	<0.02	<0.025		<0.005	<0.025	<0.002	<0.0001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	
	MW10-ROX-040913	4/9/2013		44.60	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW10-ROX-070813	7/8/2013		42.27	NE	<0.005		<0.005	1.9	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW10-ROX-100313	10/3/2013		42.38	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW10-ROX-011514	1/15/2014	44.43 - 54.43	44.42	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001

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SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						VOCs																				
						Hexachlorobutadiene	Hexane[6]	2-Hexanone (Methyl N-Butyl Ketone)	Isopentane[6]	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methyl tert-Butyl Ether (MTBE)	Naphthalene[4]	n-Propylbenzene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,2-Trichloroethane	1,2,3-Trimethylbenzene[6]	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)
					Screening Values (mg/L)	0.007 [3]	0.42 [3]	0.035 [3]		0.7 [1]	0.56 [3]	0.07 [1]	0.14 [1]	0.7 [3]	1.0 [1]	0.0056 [3]	0.07 [1]	0.005 [1]			0.07 [3]	7.0 [2]	10 [1]		10 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
MW-11	MW11-ROX-050611	5/6/2011	41.66 - 51.66	37.60	NE	<0.005		<0.005 UJ		<0.005	<0.005	<0.001	<0.000095 UJ	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW11-ROX-072411	7/24/2011		34.3	NE	<0.005		<0.005		<0.005	<0.005	<0.001	0.00027 B	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW-11-ROX-110211	11/2/2011		35.44	NE	<0.005		<0.005		<0.005	<0.005	0.003 J	<0.00011	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW11-ROX-011712	1/17/2012		37.44	NE	<0.005		<0.005		<0.005	<0.005	<0.001		<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW11-ROX-043012	4/30/2012		38.66	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW11-ROX-072712	7/27/2012		38.90	NE	<0.005		<0.005 UJ		<0.005	<0.005	<0.001	<0.00012	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW11-ROX-102512	10/25/2012		40.59	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW11-ROX-011013	1/10/2013		41.43	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW11-ROX-040813	4/8/2013		42.02	NE	<0.005		<0.005		<0.005	<0.005	<0.001 UJ	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW11-ROX-070813	7/8/2013		39.24	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW11-ROX-100713	10/7/2013		39.95	NE	<0.005		<0.005 UJ		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW11-ROX-011514	1/15/2014	41.66 - 51.66	42.16	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
MW-12	MW12-ROX-051211	5/12/2011	41.92 - 51.92	37.58	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.0001 UJ	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW12-ROX-072411	7/24/2011		35.55	NE	<0.005		<0.005		<0.005	<0.005	<0.001	0.00098 B	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW-12-ROX-110211	11/2/2011		35.70	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.000095	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW-12-ROX-110211-DUP	11/2/2011		35.70	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.000095	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW12-ROX-011712	1/17/2012		37.70	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.00011	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW12-ROX-011712-DUP	1/17/2012		37.70	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.00011	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW12-ROX-043012	4/30/2012		38.98	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW12-ROX-072712	7/27/2012		39.22	NE	<0.005		<0.005 UJ		<0.005	<0.005	<0.001	<0.00011	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW12-ROX-102512	10/25/2012		40.95	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW12-ROX-011013	1/10/2013		41.83	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	0.00089 J	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW12-ROX-040813	4/8/2013		42.46	NE	<0.005		<0.005		<0.005	<0.005	<0.001 UJ	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW12-ROX-070913	7/9/2013		39.28	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW12-ROX-100713	10/7/2013		40.22	NE	<0.005		<0.005 UJ		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW12-ROX-011514	1/15/2014	41.92 - 51.92	42.54	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
MW-13	MW13-ROX-051311	5/13/2011	25.57 - 35.57	23.65	NE	<0.005		<0.005		<0.005	<0.005	0.0061 J	<0.000095 U	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW13-ROX-080311	8/3/2011		21.67	NE	<0.005		<0.005		<0.005	<0.005	0.004	<0.000045 U	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW13-ROX-110311	11/3/2011		22.85	NE	<0.005		<0.005		<0.005	<0.005	0.0156 J	0.00017	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW13-ROX-012012	1/20/2012		24.77	NE	<0.005		<0.005		<0.005	<0.005	0.0066 J	0.00021	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW13-ROX-050712	5/7/2012		25.79	NE	<0.005		<0.005		<0.005	<0.005	0.0083	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW13-ROX-080812	8/8/2012		26.67	NE	<0.005 UJ		<0.005 UJ		<0.005 UJ	<0.005 UJ	0.0133 J	<0.0013 U	<0.005 UJ	<0.001 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ		<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.001 UJ	<0.001 UJ
	MW13-ROX-110812	11/8/2012		25.30	NE	<0.005		<0.005		<0.005	<0.005	0.0093	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW13-ROX-012313	1/23/2013		29.26	NE	<0.005		<0.005		<0.005	<0.005	0.0082	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW13-ROX-041213	4/12/2013		29.44	NE	<0.005		<0.005		<0.005	<0.005	0.0093	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW13-ROX-071213	7/12/2013		25.67	NE	<0.005 UJ		<0.005		<0.005	<0.005	0.0094	<0.005	0.00064 J	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW13-ROX-100913	10/9/2013		26.94	NE	<0.005 UJ		<0.005		<0.005	<0.005	0.0072	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW13-ROX-012914	1/29/2014	25.57 - 35.57	29.63	NE	<0.005		<0.005		<0.005	<0.005	0.008 J	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
MW-14	MW14-ROX-110911	11/9/2011	33.42 - 43.42			<0.005		<0.005		<0.005	<0.005	<0.001	<0.00011	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW14-ROX-051012	5/10/2012		NM	NE	<0.005		<0.005		0.0104	<0.005	<0.001	0.00099	0.0078	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.0016	0.00041 J	0.002
	MW14-ROX-080312	8/3/2012		NM	NE	<0.005		<0.005		0.0173	<0.005	<0.001	0.0013	0.0137	0.00093 J	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.0033	0.00061 J	0.0039
	MW14-ROX-103112	10/31/2012		32.02	NE	<0.005		<0.005		0.0161	<0.005	<0.001	<0.005	0.0121	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.0024	<0.001	0.0024
	MW14-ROX-011813	1/18/2013		33.05	NE	<0.005		<0.005		0.021	<0.005	<0.001	<0.005	0.0162	0.00097 J	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.0026	<0.001	0.003
	MW14-ROX-041113	4/11/2013		33.31	NE	<0.005		<0.005		0.0346	<0.005	<0.001	<0.005	0.0206	0.0014	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.0038	<0.001	0.0043
	MW14-ROX-071213	7/12/2013		30.36	NE	<0.005 UJ		<0.005		0.0168	<0.005	<0.001	<0.005	0.0109	0.00059 J	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	0.0026	<0.001	0.0029
	MW14-ROX-101013	10/10/2013		30.80	NE	<0.005		<0.005		0.0011 J	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		0.00088 J	0.0011 J	<0.005	<0.001	<0.001	<0.001
	MW14-ROX-012914	1/29/2014	33.42 - 43.42	33.67	NE	<0.005		<0.005		0.0036 J	<0.005	<0.001	<0.005	0.002 J	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
MW-16	MW16-ROX-012313	1/23/2013	37.06 - 47.06	43.05	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW16-ROX-040813	4/8/2013		43.39	NE	<0.005		<0.005		<0.005	<0.005	<0.001 UJ	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW16-ROX-070813	7/8/2013		40.62	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW16-ROX-100813	10/8/2013		41.62	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW16-ROX-011514	1/15/2014	37.06 - 47.06	43.76	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						VOCs																				
						Hexachlorobutadiene	Hexane[6]	2-Hexanone (Methyl N-Butyl Ketone)	Isopentane[6]	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methyl tert-Butyl Ether (MTBE)	Naphthalene[4]	n-Propylbenzene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,2-Trichloroethane	1,2,3-Trimethylbenzene[6]	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)
					Screening Values (mg/L)	0.007 [3]	0.42 [3]	0.035 [3]		0.7 [1]	0.56 [3]	0.07 [1]	0.14 [1]	0.7 [3]	1.0 [1]	0.0056 [3]	0.07 [1]	0.005 [1]			0.07 [3]	7.0 [2]	10 [1]		10 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
MW-22	MW22-ROX-012313	1/23/2013	37.88 - 47.88	41.80	NE	<0.25		<0.25		0.126 J	<0.25	<0.05	0.396	0.22 J	10.5	<0.25	<0.25	<0.05		1.23	0.288	<0.25 UJ	7.56	3.73	11.3
	MW22-ROX-012313-DUP	1/23/2013		41.80	NE	<0.25		<0.25		0.124 J	<0.25	<0.05	0.377	0.234 J	9.06	<0.25	<0.25	<0.05		1.26	0.291	<0.25 UJ	6.96	3.52	10.5
	MW22-ROX-040513	4/5/2013		42.23	NE	<0.005		<0.005		0.159 J	0.0124 J	<0.001	0.286 J	0.29 J	6.14	<0.005	<0.005	<0.001		0.931	0.379 J	<0.005	5.15	2.64	7.79
	MW22-ROX-071113	7/11/2013		39.35	NE	<0.005		<0.005 UJ		0.131	0.0102	<0.001	0.345	0.242	3.92	<0.005	<0.005	<0.001		0.864	0.309	<0.005 UJ	4.13	2.26	6.39
	MW22-ROX-071113-DUP	7/11/2013		39.35	NE	<0.005		<0.005 UJ		0.133	0.0103	<0.001	0.362	0.245	3.57	<0.005	<0.005	<0.001		0.754	0.311	<0.005 UJ	3.83	2.05	5.88
	MW22-ROX-100913	10/9/2013		40.39	NE	<0.005 UJ		<0.005		0.137	0.0101	<0.001	0.47	0.244	6.02	<0.005	<0.005	<0.001		1.37	0.357	<0.005	7.46	3.48	10.9
	MW22-ROX-100913-DUP	10/9/2013		40.39	NE	<0.005 UJ		<0.005		0.136	0.0084	<0.001	0.445	0.243	6.32	<0.005	<0.005	<0.001		1.43	0.343	<0.005	7.75	3.65	11.4
	MW22-ROX-012014	1/20/2014	37.88 - 47.88	42.49	NE	<0.005		0.0082		0.169	0.007	<0.001	0.287	0.287	5.33	<0.005	<0.005	<0.001		1.3	0.298	<0.005	5.65	2.65	8.29
	MW22-ROX-012014-DUP	1/20/2014		42.49	NE	<0.005		0.0088		0.169	0.007	<0.001	0.262	0.286	5.71	<0.005	<0.005	<0.001		1.37	0.398	<0.005	6.01	2.81	8.83
MW-24	MW24-ROX-040513	4/5/2013	38.89 - 48.89	43.39	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	0.0014	<0.005	<0.005	<0.001		0.00051 J	<0.005	<0.005	0.0021	0.0009 J	0.003
	MW24-ROX-071113	7/11/2013		40.35	NE	<0.005		<0.005 UJ		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW24-ROX-100913	10/9/2013		41.27	NE	<0.005 UJ		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW24-ROX-011514	1/15/2014	38.89 - 48.89	43.47	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
P-54	P54-ROX-051111	5/11/2011	38.00 - 63.00	37.37	NE	<0.005		<0.005		<0.005	<0.005	<0.001	0.00013 J	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P54-ROX-072411	7/24/2011		35.38	NE	<0.005		<0.005		<0.005	<0.005	<0.001	0.000066 JB	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P54-ROX-110311	11/3/2011		35.49	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P54-ROX-011712	1/17/2012		37.17	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.000089 U	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P54-ROX-050412	5/4/2012		38.77	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P54-ROX-080212	8/2/2012		38.95	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.00011	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P54-ROX-103012	10/30/2012		40.70	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P54-ROX-011113	1/11/2013		41.56	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P54-ROX-041013	4/10/2013		41.80	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P54-ROX-050313	5/3/2013		41.80	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P54-ROX-071113	7/11/2013		39.07	NE	<0.005		<0.005 UJ		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	P54-ROX-100813	10/8/2013		39.94	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P54-ROX-011514	1/15/2014	38.00 - 63.00	42.20	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
P-55	P55-ROX-103111	10/31/2011	39.82 - 64.82	39.15	NE	<0.005		<0.005		<0.005	<0.005	0.0012	0.0015	<0.005	0.029	<0.005	<0.005	<0.001		0.0067	0.0056	<0.005	0.0466	0.0163	0.0629
	P55-ROX-011912	1/19/2012		41.09	NE	<0.005		<0.005		0.0105 J	<0.005	<0.001	0.0197	0.0173	0.0337	<0.005	<0.005	<0.001		0.017	0.009	<0.005	0.205	0.0683	0.271
	P55-ROX-011912-D	1/19/2012		41.09	NE	<0.005		<0.005		0.0105 J	<0.005	<0.001	0.0169	0.0176	0.0359	<0.005	<0.005	<0.001		0.0179	0.0097	<0.005	0.21	0.0649	0.275
	P55-ROX-050912	5/9/2012		42.44	NE	<0.005		<0.005		0.0392	<0.005	<0.001	0.0271	0.0699	0.227	<0.005	<0.005	<0.001		0.158	0.0368	<0.005	0.885	0.112	0.97
	P55-ROX-012113	1/21/2013	40.43 - 50.43	43.60	NE	<0.01	0.276	<0.25		0.0678	<0.25	<0.02	0.079 J	0.14	0.189	<0.05	<0.01	<0.05	0.183	0.039 J	0.026 J	<0.1	0.279	0.347	
	P55-ROX-012113	1/21/2013		43.60	NE	<0.005		<0.005		0.0937	<0.005	0.002	0.12	0.206	0.262	<0.005	<0.005	<0.001		0.046	0.0312	<0.005	0.356	0.382	0.738
	P55-ROX-041513	4/15/2013		43.63	NE	<0.01		<0.01		0.068	<0.01	<0.002	0.0974 J	0.148	0.143	<0.01	<0.01	<0.002		0.0241	0.0229	<0.01	0.235	0.362	0.597
	P55-ROX-071613	7/16/2013		40.06	NE	<0.005 UJ		<0.005	0.72	0.0884	<0.005	<0.001	0.0841	0.175	0.343	<0.005	<0.005	<0.001		0.073	0.0559	<0.005 UJ	0.535	0.558	1.11
	P55-ROX-101013	10/10/2013		41.67	NE	<0.005		<0.005		0.0851	<0.005	0.001	0.121	0.167	0.601	<0.005	<0.005	<0.001		0.151	0.062	<0.005	0.739	0.639	1.38
P-56	P56-ROX-102711	10/27/2011	40.82 - 65.82	39.42	NE	<0.005		<0.005		0.0512	<0.005	<0.001	0.067	0.0463	0.0422	<0.005	<0.005	<0.001		0.0962	0.0226	<0.005	0.476	0.0332	0.509
	P56-ROX-011912	1/19/2012		41.81	NE	<0.005		<0.005		0.0787 J	<0.005	<0.001	0.0596	0.0697	0.023	<0.005	<0.005	<0.001		0.0229	0.0077	<0.005	0.202	0.0161	0.218
	P56-ROX-050812	5/8/2012		43.09	NE	<0.005		<0.005		0.0876	<0.005	<0.001	0.0667	0.111	0.197	<0.005	<0.005	<0.001		0.312	0.0708	<0.005	1.37	0.197	1.53
	P56-ROX-080612	8/6/2012		43.60	NE	<0.025		<0.025 UJ		0.0442	<0.025	<0.005	0.0197	0.0439	0.0109	<0.025 UJ	<0.025 UJ	<0.005		0.0131 J	0.005 J	<0.025 UJ	0.11	0.0083	0.118
	P56-ROX-103112	10/31/2012		44.80	NE	<0.005		<0.005		0.0752	<0.005	<0.001	0.167	0.105	0.187	<0.005	<0.005	<0.001		0.387	0.0901	<0.005	1.62	0.144	1.73
	P56-ROX-011713	1/17/2013		45.65	NE	<0.025		<0.025		0.0398	<0.025	<0.005	0.0322	0.0456	0.0119	<0.025	<0.025	<0.005		0.0172 J	0.0092 J	<0.025	0.0745	<0.005	0.0745
	P56-ROX-041213	4/12/2013		46.12	NE	<0.01		<0.01		0.0581	<0.01	<0.002	0.0964 J	0.0805	0.0799	<0.01	<0.01	<0.002		0.27	0.0486	<0.01	1	0.0243	1.03
	P56-ROX-071513	7/15/2013		43.25	NE	<0.005		<0.005		0.0968	<0.005	<0.001	0.316	0.145	0.311	<0.005	<0.005	<0.001		0.551	0.134	<0.005	2.67	0.21	2.85
	P56-ROX-101013	10/10/2013		44.48	NE	<0.005		<0.005		0.0822	<0.005	0.00058 J	0.156	0.105	0.157	<0.005	<0.005	<0.001		0.33	0.0714	<0.005	1.7	0.0617	1.76
	P56-ROX-012214	1/22/2014	40.82 - 65.82	46.35	NE	<0.005		<0.005		0.0399	<0.005	<0.001	0.0566	0.0426	0.0263	<0.005	<0.005	<0.001		0.074	0.0172	<0.005	0.224	0.0093	0.233
P-57	P57-ROX-110811	11/8/2011	40.46 - 65.46	39.20	NE	<0.5		<0.5		<0.5	<0.5	0.221	0.152	<0.5	<0.1	<0.5	<0.5	<0.1		0.615	<0.5	<0.5	1.02	<0.1	1.02
	P57-ROX-021312	2/13/2012		42.13	NE	<2.5		<2.5		<2.5	<2.5	<0.5	0.271 J	<2.5	<0.5	<2.5	<2.5	<0.5		<2.5	<2.5	<2.5	0.502	<0.5	0.502
	P57-ROX-050712	5/7/2012		42.92	NE	<0.5		<0.5		<0.5	<0.5	0.453	0.0894	<0.5	<0.1	<0.5	<0.5	<0.1		0.632	0.159 J	<0.5	0.928	0.0563 J	0.984
	P57-ROX-080612	8/6/2012		43.53	NE	<0.25		<0.25 UJ		<0.25	<0.25	0.238	0.119	<0.25	0.0577	<0.25	<0.25	<0.05		0.506	0.123 J	<0.25 UJ	0.74	0.0328 J	0.773
	P57-ROX-080612-DUP	8/6/2012		43.53	NE	<0.005		<0.005 UJ		0.0432	<0.005	0.212	0.115	0.0519	0.0558	<0.005	<0.005	<0.001		0.505 E	0.137	<0.005 UJ	0.692	0.0348	0.727
	P57-ROX-110512	11/5/2012		44.98	NE	<2.5		<2.5		<2.5	<2.5	<0.5	1.53 J	<2.5	<0.5	<2.5	<2.5	<0.5		0.577 J	<2.5	<2.5	1.03	<0.5	1.03
	P57-ROX-012913	1/29/2013		45.92	NE	<2.5		<2.5		<2.5	<2.5	<0.5	<2.5	0.331 J	<0.5	<2.5	<2.5	<0.5		<2.5	<2.5	<2.5	<0.5	<0.5	<0.5
	P57-ROX-041113	4/11/2013		46.29	NE	<2.5		<2.5		<2.5	<2.5	<0.5	<2.5	<2.5	<0.5	<2.5	<2.5	<0.5		0.494 J	<2.5	<2.5	<0.5	<0.5	<0.5
	P57-ROX-071613	7/16/2013		43.38	NE	<0.005 UJ		<0.005		0.0698 J	<0.005	0.112 J	0.203 J	0.0802 J	0.202 J	<0.005	<0.005	<0.001		<5	0.129 J	<0.005 UJ	1.81	0.256 J	2.01
	P57-ROX-101413	10/14/2013		44.38	NE	<0.005		<0.005		0.0539	<0.005	0.107	0.206	0.0586	0.0421	<0.005	<0.005	<0.001		0.763 J	0.12	<0.005	0.468	0.0206	0.489
	P57-ROX-020314	2/3/2014	40.46 - 65.46	46.57	NE	<5		<5		<5	<5	<1	<5	<5	<1	<5	<5	<1		<5	<5	<5	<1	<1	<1

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						VOCs																			
						Hexachlorobutadiene	Hexane[6]	2-Hexanone (Methyl N-Butyl Ketone)	Isopentane[6]	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methyl tert-Butyl Ether (MTBE)	Naphthalene[4]	n-Propylbenzene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,2-Trichloroethane	1,2,3-Trimethylbenzene[6]	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)
					Screening Values (mg/L)	0.007 [3]	0.42 [3]	0.035 [3]		0.7 [1]	0.56 [3]	0.07 [1]	0.14 [1]	0.7 [3]	1.0 [1]	0.0056 [3]	0.07 [1]	0.005 [1]			0.07 [3]	7.0 [2]	10 [1]		10 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																			
P-58	P58-ROX-102811	10/28/2011	40.21 - 65.21	37.31	NE	<0.005		<0.005		0.0734	<0.005	<0.001	0.204	0.0862	0.13	<0.005	<0.005	<0.001		<25	0.104	<0.005	0.575	0.101	0.677
	P58-ROX-011912	1/19/2012		39.73	NE	<0.005		0.0097		0.108 J	<0.005	0.0082	0.212	0.129 J	0.155 J	<0.005	<0.005	<0.001			0.14 J	0.0408 J	0.679	0.108	0.787
	P58-ROX-011912-D	1/19/2012		39.73	NE	<0.005		<0.005		0.0832 J	<0.005	0.0101 J	0.191 J	0.0993 J	0.119 J	<0.005	<0.005	<0.001		<5	0.11	<0.005 UJ	<1	<1	<1
	P58-ROX-050712	5/7/2012		40.90	NE	<0.5		<0.5		<0.5	<0.5	<0.1	0.112 J	0.106 J	0.137	<0.5	<0.5	<0.1		0.776	0.108 J	<0.5	0.666	0.0982 J	0.764
	P58-ROX-050712-DUP	5/7/2012		40.90	NE	<0.5		<0.5		<0.5	<0.5	<0.1	0.0697 J	0.108 J	0.145	<0.5	<0.5	<0.1		0.757	0.109 J	<0.5	0.636	0.0968 J	0.733
	P58-ROX-080612	8/6/2012		41.63	NE	<0.1		<0.1 UJ		0.0649 J	<0.1	<0.02	0.142	0.0909 J	0.117	<0.1	<0.1	<0.02		0.705	0.0955 J	<0.1 UJ	0.652	0.0976	0.749
	P58-ROX-080612-DUP	8/6/2012		41.63	NE	<0.05		<0.05		0.0718	<0.05	<0.01	0.15	0.0996	0.128	<0.05	<0.05	<0.01		0.737	0.102	<0.05	0.656	0.104	0.759
	P58-ROX-110612	11/6/2012		43.09	NE	<0.5		<0.5		<0.5	<0.5	<0.1	<0.5	<0.5	0.124	<0.5	<0.5	<0.1		0.658	0.108 J	<0.5	0.544	0.0807 J	0.624
	P58-ROX-121012	12/10/2012		43.09	NE																				
	P58-ROX-012213	1/22/2013		44.21	NE	<5		<5		<5	<5	<1	<5	<5	<1	<5	<5	<1		<5	<5	<5	<1	<1	0.728 J
	P58-ROX-041113	4/11/2013		44.40	NE	<10		<10		<10	<10	<2	<10	<10	<2	<10	<10	<2		0.926 J	<10	<10	<2	<2	<2
	P58-ROX-071613	7/16/2013		41.49	NE	<0.005 UJ		<0.005		0.101	<0.005	<0.001	0.234	0.131	0.147	<0.005	<0.005	<0.001		0.634 J	0.13	<0.005 UJ	0.723	0.12	0.843
	P58-ROX-101413	10/14/2013		42.19	NE	<0.005		<0.005		0.0999	0.0055	0.0015	0.234	0.135	0.2	<0.005	<0.005	<0.001		1.17 J	0.131	<0.005	0.74	0.112	0.852
	P58-ROX-020314	2/3/2014	40.21 - 65.21	44.66	NE	<5		<5		<5	<5	<1	<5	<5	<1	<5	<5	<1		<5	<5	<5	<1	<1	<1
P-59	P59-ROX-102711	10/27/2011	47.91 - 72.91	41.06	NE	<0.25		<0.25		<0.25	<0.25	<0.05	0.0793	<0.25	0.321	<0.25	<0.25	<0.05		0.477	<0.25	<0.25	3.11	0.312	3.42
	P59-ROX-011912	1/19/2012		42.88	NE	<0.005		<0.005		0.0713	<0.005	<0.001	0.18	0.128	0.896	<0.005	<0.005	<0.001		0.483 J	0.198	<0.005	3.03	0.587	3.62
	P59-ROX-011912-DUP	1/19/2012		42.88	NE	<0.005		<0.005		0.0733	<0.005	<0.001	0.183	0.133	0.931	<0.005	<0.005	<0.001		0.536	0.203	<0.005	3.21	0.587	3.8
	P59-ROX-050912	5/9/2012		44.11	NE	<0.25		<0.25		0.0585 J	<0.25	<0.05	0.0925	0.123 J	2.35	<0.25	<0.25	<0.05		0.67	0.171 J	<0.25	4.56	1.08	5.64
	P59-ROX-080212	8/2/2012		44.07	NE	<0.1		<0.1		0.0452 J	<0.1	<0.02	0.0886	0.0974 J	0.506	<0.1	<0.1	<0.02		0.563	0.158	<0.1	4.35	0.376	4.73
	P59-ROX-110212	11/2/2012		45.98	NE	<0.5		<0.5		<0.5	<0.5	<0.1	<0.5	0.105 J	1.09	<0.5	<0.5	<0.1		0.558	0.154 J	<0.5	4.49	0.686	5.17
	P59-ROX-110212-DUP	11/2/2012		45.98	NE	<0.5		<0.5		<0.5	<0.5	<0.1	<0.5	0.111 J	1.1	<0.5	<0.5	<0.1		0.592	0.167 J	<0.5	4.68	0.721	5.4
	P59-ROX-013013	1/30/2013		46.60	NE	<0.25		<0.25		0.0455 J	<0.25 UJ	<0.05 UJ	0.376	0.085 J	0.296	<0.25	<0.25	<0.05		0.563	0.0491 J	<0.25	4.19	0.264	4.45
	P59-ROX-041213	4/12/2013		46.95	NE	<0.25		<0.25		0.062 J	<0.25	<0.05	0.664	0.136 J	0.523	<0.25	<0.25	<0.05		0.946	<0.25	<0.25	6.52	0.646	7.16
	P59-ROX-041213-DUP	4/12/2013		46.95	NE	<0.25		<0.25		0.0543 J	<0.25	<0.05	0.547	0.117 J	0.463	<0.25	<0.25	<0.05		0.843	<0.25	<0.25	5.89	0.591	6.48
	P59-ROX-071613	7/16/2013		44.13	NE	<0.005 UJ		<0.005		0.074 J	<0.005	<0.001	0.215 J	0.149 J	1.03	<0.005	<0.005	<0.001		0.784	0.219	<0.005 UJ	5.76	0.431	6.19
	P59-ROX-101013	10/10/2013		45.50	NE	<0.005		<0.005		0.086	<0.005	0.0012	0.285	0.176	2.89	<0.005	<0.005	<0.001		1.14	0.273	<0.005	7.47	1.28	8.75
	P59-ROX-020314	2/3/2014	47.91 - 72.91	47.35	NE	<0.1		<0.1		0.0409 J	<0.1	<0.02	0.0321 J	0.0824 J	0.66	<0.1	<0.1	<0.02		0.621	0.193	<0.1	3.79	0.438	4.23
P-66	P66-ROX-110111	11/1/2011	34.72 - 59.72	28.92	NE	<0.005		<0.005		0.158	<0.005	0.0845 J	0.0091	0.188	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P66-ROX-051012	5/10/2012		32.48	NE	<0.005		<0.005		0.123	<0.005	0.0771	<0.0001	0.152	0.0021	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.0012	0.0012	0.0024
	P66-ROX-080312	8/3/2012		30.51	NE	<0.005		<0.005		0.0874	<0.005	0.103	0.0013	0.112	0.0013	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.0011	0.0011	0.0022
	P66-ROX-103112	10/31/2012		34.75	NE	<0.005		<0.005		0.122	<0.005	0.0733	<0.005	0.156	0.0014	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P66-ROX-011813	1/18/2013		35.70	NE	<0.005		<0.005		0.146	<0.005	0.104	<0.005	0.193	0.0015	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	0.00093 J	0.00093 J
	P66-ROX-041113	4/11/2013		36.03	NE	<0.005		<0.005		0.287	<0.005	0.086	<0.005	0.384	0.0012	<0.005	<0.005	<0.001		0.0041 J	<0.005	<0.005	<0.001	<0.001	<0.001
	P66-ROX-071213	7/12/2013		33.20	NE	<0.005 UJ		<0.005		0.191	<0.005	<0.001	<0.005	0.229	0.0018	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	0.001	0.0015
	P66-ROX-101013	10/10/2013		33.66	NE	<0.005		<0.005		0.151	<0.005	0.085	0.0104	0.204	0.0013	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	0.00096 J	0.00096 J
	P66-ROX-110713	11/7/2013		33.66	NE	<0.005		<0.005		0.0958	<0.005	0.0528	0.0057	0.0658	0.00086 J	<0.005	<0.005	0.0015		<0.005	<0.005	<0.005	<0.001	0.00057 J	0.00057 J
	P66-ROX-012914	1/29/2014	34.72 - 59.72	36.39	NE	<0.005		<0.005		0.131	<0.005	<0.001	<0.005	0.157	0.0017	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	0.0045	0.0045
P-74	P74-ROX-103111	10/31/2011	44.43 - 69.43	36.26	NE	<0.005		<0.005		0.0123	<0.005	0.0222	0.0673	0.0222	0.669	<0.005	<0.005	<0.001		0.587	0.162	<0.005	0.177	<0.1	0.177
	P74-ROX-011912	1/19/2012		38.77	NE	<0.005		<0.005		<0.005	<0.005	<0.001	0.0158	0.0012 J	0.0038	<0.005	<0.005	<0.001		0.0292	0.0126	<0.005	0.0526	0.0262	0.0788
	P74-ROX-050712	5/7/2012		39.92	NE	<0.005		<0.005		<0.005	<0.005	<0.001	0.00024	0.001 J	0.0017	<0.005	<0.005	<0.001		0.0155	0.0063	<0.005	0.0273	0.0093	0.0366
	P74-ROX-080612	8/6/2012		40.71	NE	<0.05		<0.05 UJ		<0.05	<0.05	<0.01	0.0177	<0.05	0.159	<0.05	<0.05	<0.01		0.187	0.0663	<0.05 UJ	0.388	0.125	0.512
	P74-ROX-110112	11/1/2012		41.72	NE	<0.1		<0.1		<0.1	<0.1	<0.02	0.0834 J	<0.1	0.232	<0.1	<0.1	<0.02		0.125	0.0414 J	<0.1	0.246	0.0811	0.328
	P74-ROX-011713	1/17/2013		42.65	NE	<0.1		<0.1		<0.1	<0.1	<0.02	0.141	<0.1	0.278	<0.1	<0.1	<0.02		0.249	0.0973 J	<0.1	0.547	<0.02	0.555
	P74-ROX-041113	4/11/2013		42.83	NE	<0.005		<0.005		<0.005	<0.005	<0.001	0.0016 J	<0.005	0.003	<0.005	<0.005	<0.001		0.0184	0.0138	<0.005	0.0456	0.0146	0.0601
	P74-ROX-071513	7/15/2013		40.11	NE	<0.005		<0.005		0.0031 J	<0.005	<0.001	0.024	0.0054	0.0064	<0.005	<0.005	<0.001		0.101	0.0365	<0.005	0.109	0.027	0.136
	P74-ROX-101413	10/14/2013		41.72	NE	<0.005		<0.005		0.0052	0.0074	0.0011	0.0257	0.0094	0.0344	<0.005	<0.005	<0.001		0.192	0.0739	<0.005	0.237	0.0483	0.285
	P74-ROX-012414	1/24/2014	44.43 - 69.43	43.35	NE	<0.005		<0.005		0.0058	<0.005	<0.001	0.0322	0.0112	0.153	<0.005	<0.005	<0.001		0.292	0.11	<0.005	0.316	0.0579	0.374

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						VOCs																				
						Hexachlorobutadiene	Hexane[6]	2-Hexanone (Methyl N-Butyl Ketone)	Isopentane[6]	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methyl tert-Butyl Ether (MTBE)	Naphthalene[4]	n-Propylbenzene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,2-Trichloroethane	1,2,3-Trimethylbenzene[6]	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)
					Screening Values (mg/L)	0.007 [3]	0.42 [3]	0.035 [3]		0.7 [1]	0.56 [3]	0.07 [1]	0.14 [1]	0.7 [3]	1.0 [1]	0.0056 [3]	0.07 [1]	0.005 [1]			0.07 [3]	7.0 [2]	10 [1]		10 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
P-93A	P93A-ROX-050511	5/5/2011	48.17 - 63.17	41.88	NE	<0.005		<0.005 UJ		0.0206 J	<0.005	0.0684 J	0.0795 J	0.0228 J	0.0718 J	<0.005	<0.005	<0.001		0.169 J	0.0293 J	<0.005	0.628 J	0.0707 J	0.699 J
	P93A-ROX-081811	8/18/2011		39.40	NE	<0.005		<0.005		0.0236 J	<0.005	0.0356	0.0868	0.0254	0.0678	<0.005	<0.005	<0.001		0.237	0.0495	<0.005 UJ	0.745	0.09	0.835
	P93A-ROX-102611	10/26/2011		39.43	NE	<0.005		<0.005		0.0189	<0.005	0.0405	0.108	0.0172	0.0438	<0.005 UJ	<0.005	<0.001		0.171	0.0399	<0.005	0.482	0.0614	0.543
	P93A-ROX-012012	1/20/2012		41.66	NE	<0.005		0.0041 J		0.0134	<0.005	0.0604	0.059 J	0.0134	0.0196	<0.005	<0.005	<0.001		0.101	0.025	<0.005 UJ	0.292	0.0416	0.333
	P93A-ROX-050812	5/8/2012		42.75	NE	<0.005 UJ		<0.005 UJ		0.0218 J	<0.005 UJ	0.0557 J	0.0472	0.0239 J	0.0407 J	<0.005 UJ	<0.005 UJ	<0.001 UJ		0.194 J	0.0416 J	<0.005 UJ	0.647 J	0.0841 J	0.731 J
	P93A-ROX-080912	8/9/2012		43.66	NE	<0.005		<0.005		0.0126	<0.005	0.0485	0.0496	0.0137	0.0091	<0.005	<0.005	<0.001		0.145	0.0273	<0.005	0.436	0.0642	0.5
	P93A-ROX-110712	11/7/2012		45.00	NE	<0.5		<0.5		<0.5	<0.5	<0.1	<0.5	<0.5	<0.1	<0.5	<0.5	<0.1		<0.5	<0.5	<0.5	0.43	0.076 J	0.506
	P93A-ROX-110712-DUP	11/7/2012		45.00	NE	<0.5		<0.5		<0.5	<0.5	<0.1	<0.5	<0.5	<0.1	<0.5	<0.5	<0.1		<0.5	<0.5	<0.5	0.404	0.073 J	0.477
	P93A-ROX-012313	1/23/2013		45.89	NE	<2.5		<2.5		<2.5	<2.5	<0.5	<2.5	<2.5	<0.5	<2.5	<2.5	<0.5		<2.5	<2.5	<2.5 UJ	<0.5	<0.5	<0.5
	P93A-ROX-012313-DUP	1/23/2013		45.89	NE	<2.5		<2.5		<2.5	<2.5	<0.5	<2.5	<2.5	<0.5	<2.5	<2.5	<0.5		<2.5	<2.5	<2.5 UJ	<0.5	<0.5	<0.5
	P93A-ROX-041113	4/11/2013		46.29	NE	<2.5		<2.5		<2.5	<2.5	<0.5	<2.5	<2.5	<0.5	<2.5	<2.5	<0.5		<2.5	<2.5	<2.5	<0.5	<0.5	<0.5
	P93A-ROX-041113-DUP	4/11/2013		46.29	NE	<2.5		<2.5		<2.5	<2.5	<0.5	<2.5	<2.5	<0.5	<2.5	<2.5	<0.5		<2.5	<2.5	<2.5	<0.5	<0.5	<0.5
	P93A-ROX-071813	7/18/2013		43.25	NE	<0.005		<0.005		0.0101	<0.005	0.0054 J	0.0303	0.0113	0.0072	<0.005	<0.005	<0.001		0.0915	0.0116	<0.005 UJ	0.273	0.0426	0.316
	P93A-ROX-101113	10/11/2013		44.18	NE	<0.005		<0.005		0.0142	<0.005	0.0034	0.0621	0.015	0.0133	<0.005	<0.005	<0.001		0.146	0.0163	<0.005 UJ	0.451	0.0789	0.53
	P93A-ROX-012914	1/29/2014	48.17 - 63.17	46.53	NE	<2.5		<2.5		<2.5	<2.5	<0.5	<2.5	<2.5	<0.5	<2.5	<2.5	<0.5		<2.5	<2.5	<2.5	<0.5	<0.5	<0.5
P-93B	P93B-ROX-050511	5/5/2011	74.60 - 76.60	41.96	NE	<0.005		<0.005 UJ		0.0142	<0.005	0.0113	0.0013 J	0.0151	0.0488	<0.005	<0.005	<0.001		0.0057	0.0014 J	<0.005	0.0502	0.0112	0.0614
	P93B-ROX-081811	8/18/2011		39.44	NE	<5		<5		<5	<5	<1	0.0037	<5	<1	<5	<5	<1		<5	<5	<5	<1	<1	<1
	P93B-ROX-102611	10/26/2011		39.48	NE	<0.005		<0.005		0.0292	<0.005	<0.001	0.012	0.0359	0.0859	<0.005 UJ	<0.005	<0.001		0.0303	0.0082	<0.005	0.167	0.0352	0.202
	P93B-ROX-012012	1/20/2012		41.72	NE	<0.005		<0.005		0.022 J	<0.005	0.0063 J	0.0041 J J	0.0244 J	0.0678 J	<0.005	<0.005	<0.001		0.0114 J	0.0028 J J	<0.005 UJ	0.0598 J	0.0224 J	0.0822 J
	P93B-ROX-050812	5/8/2012		42.79	NE	<0.005		<0.005		0.0188 J	<0.005	<0.001	0.002	0.0272 J	0.0512 J	<0.005	<0.005	<0.001		0.0196 J	0.0054 J	<0.005	0.116 J	0.0251 J	0.141 J
	P93B-ROX-080912	8/9/2012		43.69	NE	<0.005		<0.005		0.0266	<0.005	<0.001	0.0049	0.0406	0.0786	<0.005	<0.005	<0.001		0.0372	0.0107	<0.005	0.245	0.0468	0.292
	P93B-ROX-110712	11/7/2012		45.05	NE	<0.5		<0.5		<0.5	<0.5	<0.1	<0.5	<0.5	<0.1	<0.5	<0.5	<0.1		<0.5	<0.5	<0.5	0.0986 J	<0.1	0.0986 J
	P93B-ROX-110712-DUP	11/7/2012		45.05	NE	<0.5		<0.5		<0.5	<0.5	<0.1	<0.5	<0.5	0.0719 J	<0.5	<0.5	<0.1		<0.5	<0.5	<0.5	0.237	<0.1	0.237
	P93B-ROX-012313	1/23/2013		45.89	NE	<5		<5		<5	<5	<1	<5	<5	<1	<5	<5	<1		<5	<5	<5 UJ	<1	<1	<1
	P93B-ROX-041113	4/11/2013		46.32	NE	<2.5		<2.5		<2.5	<2.5	<0.5	<2.5	<2.5	<0.5	<2.5	<2.5	<0.5		<2.5	<2.5	<2.5	<0.5	<0.5	<0.5
	P93B-ROX-071813	7/18/2013		43.30	NE	<0.005		<0.005		0.0247	<0.005	0.0035 J	0.0093	0.0357	0.0646	<0.005	<0.005	<0.001		0.025	0.0069	0.0176 J	0.195	0.0418	0.236
	P93B-ROX-101613	10/16/2013		44.43	NE	<10		<10		<10	<10	<2 UJ	<10	<10	<2	<10	<10	<2		<10	<10	<10 UJ	<2	<2	<2
	P93B-ROX-101613-DUP	10/16/2013		44.43	NE	<10		<10		<10	<10	<2 UJ	<10	<10	<2	<10	<10	<2		<10	<10	<10 UJ	<2	<2	<2
	P93B-ROX-012814	1/28/2014	74.60 - 76.60	46.58	NE	<5		<5		<5	<5	<1	<5	<5	<1	<5	<5	<1		<5	<5	<5	<1	<1	<1
	P93B-ROX-012814-DUP	1/28/2014		46.58	NE	<5		<5 UJ		<5	<5	<1	<5	<5	<1	<5	<5	<1		<5	<5	<5	<1	<1	<1
P-93C	P93C-ROX-050611	5/6/2011	94.26 - 96.26	41.84	NE	<0.005		<0.005 UJ		<0.005	<0.005	0.0052	0.00003 J J	<0.005	0.0018	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	0.00059 J
	P93C-ROX-081811	8/18/2011		39.32	NE	<0.005		<0.005		<0.005	<0.005	0.0067	<0.000054 U	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	P93C-ROX-102611	10/26/2011		39.36	NE	<0.005		<0.005		<0.005	<0.005	0.0096	<0.0001	<0.005	<0.001	<0.005 UJ	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93C-ROX-012012	1/20/2012		41.57	NE	<0.005		<0.005		<0.005	<0.005	0.006	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93C-ROX-050812	5/8/2012		42.68	NE	<0.005		<0.005		<0.005	<0.005	0.004	<0.00011	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93C-ROX-080912	8/9/2012		43.57	NE	<0.005		<0.005		<0.005	<0.005	0.0053	0.000065 J	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93C-ROX-110812	11/8/2012		45.12	NE	<0.005		<0.005		<0.005	<0.005	0.0056	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93C-ROX-012313	1/23/2013		45.78	NE	<0.005		<0.005		<0.005	<0.005	0.0044	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	P93C-ROX-041213	4/12/2013		46.21	NE	<0.005		<0.005		<0.005	<0.005	0.0045	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93C-ROX-071813	7/18/2013		43.31	NE	<0.005		<0.005		0.002 J	<0.005	0.0049 J	<0.005	0.002 J	0.007	<0.005	<0.005	<0.001		0.0016 J	<0.005	<0.005 UJ	0.0076	0.0015	0.0091
	P93C-ROX-080813	8/8/2013		43.31	NE	<0.25		<0.25		<0.25	<0.25	<0.05	<0.25	<0.25	<0.05	<0.25	<0.25	<0.05		<0.25	<0.25	<0.25	<0.05	<0.05	<0.05
	P93C-ROX-101613	10/16/2013		44.31	NE	<0.005		<0.005		<0.005	<0.005	0.0035 J	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	P93C-ROX-012414	1/24/2014	94.26 - 96.26	46.44	NE	<0.005		<0.005 UJ		<0.005	<0.005	0.0047 J	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
P-93D	P93D-ROX-050511	5/5/2011	125.75 - 127.75	41.96	NE	<0.005		<0.005 UJ		<0.005	<0.005	0.0014	0.000036 J J	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93D-ROX-081811	8/18/2011		39.46	NE	<0.005		<0.005		<0.005	<0.005	0.00095 J	<0.000087 U	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	P93D-ROX-102711	10/27/2011		39.59	NE	<0.005		<0.005		<0.005	<0.005	0.004 J	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93D-ROX-012012	1/20/2012		41.77	NE	<0.005		<0.005		<0.005	<0.005	<0.001	0.00016	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93D-ROX-050812	5/8/2012		42.96	NE	<0.005		<0.005		<0.005	<0.005	0.00077 J	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93D-ROX-080812	8/8/2012		43.71	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.0092 U	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93D-ROX-110812	11/8/2012		NM	NE	<0.005		<0.005		<0.005	<0.005	0.0023	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93D-ROX-012213	1/22/2013		44.21	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		0.0015 J	<0.005	<0.005	<0.001	<0.001	<0.001
	P93D-ROX-041113	4/11/2013		46.37	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93D-ROX-071213	7/12/2013		43.51	NE	<0.005 UJ		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	P93D-ROX-101113	10/11/2013		44.24	NE	<0.005		<0.005		<0.005	<0.005	0.00066 J J	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	P93D-ROX-013114	1/31/2014	125.75 - 127.75	46.62	NE	<0.005		<0.005		<0.005	<0.005	0.0011	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001

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TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						VOCs																				
						Hexachlorobutadiene	Hexane[6]	2-Hexanone (Methyl N-Butyl Ketone)	Isopentane[6]	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methyl tert-Butyl Ether (MTBE)	Naphthalene[4]	n-Propylbenzene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,2-Trichloroethane	1,2,3-Trimethylbenzene[6]	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)
					Screening Values (mg/L)	0.007 [3]	0.42 [3]	0.035 [3]		0.7 [1]	0.56 [3]	0.07 [1]	0.14 [1]	0.7 [3]	1.0 [1]	0.0056 [3]	0.07 [1]	0.005 [1]			0.07 [3]	7.0 [2]	10 [1]		10 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
P-114	P114-ROX-102811	10/28/2011	32.67 - 52.67	24.73	NE	<0.005		<0.005		<0.005	<0.005	0.0036 J	<0.000095	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P114-ROX-012012	1/20/2012		27.17	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P114-ROX-050912	5/9/2012		28.09	NE	<0.005		<0.005		<0.005	<0.005	0.0035 J	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P114-ROX-080912	8/9/2012		29.13	NE	<0.005		<0.005		<0.005	<0.005	0.00083 J	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		0.00039 J	<0.005	<0.005	<0.001	<0.001	<0.001
	P114-ROX-110912	11/9/2012		30.90	NE	<0.005		<0.005		<0.005	<0.005	0.0076 J	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	0.0013 J	<0.001	0.0013 J
	P114-ROX-012313	1/23/2013		30.22	NE	<0.005		<0.005		<0.005	<0.005	0.003 J	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	P114-ROX-041513	4/15/2013		31.80	NE	<0.005		<0.005		<0.005	<0.005	0.0051	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P114-ROX-071813	7/18/2013		27.22	NE	<0.005		<0.005		<0.005	<0.005	0.0023 J	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	P114-ROX-071813-DUP	7/18/2013		27.22	NE	<0.005		<0.005		<0.005	<0.005	0.0022 J	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	P114-ROX-101713	10/17/2013		29.43	NE	<0.005		<0.005		<0.005	<0.005	0.0036	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P114-ROX-012814	1/28/2014	32.67 - 52.67	32.11	NE	<0.005		<0.005 UJ		<0.005	<0.005	0.0153	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
ROST-3-PZ	ROST3PZ-ROX-051412	5/14/2012	40.00 - 50.00	38.82	NE	<0.005		<0.005		<0.005	<0.005	<0.001	0.00048	0.00096 J	0.0038	<0.005	<0.005	<0.001		0.0095	0.0023 J	<0.005	0.0607	0.0151	0.0758
	ROST3PZ-ROX-080712	8/7/2012		39.00	NE	<0.005		<0.005		<0.005	<0.005	<0.001	0.00038	<0.005	0.0015	<0.005	<0.005	<0.001		0.0042 J	0.0012 J	<0.005	0.0289	0.0074	0.0363
	ROST3PZ-ROX-110112	11/1/2012		40.82	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		0.0026 J	<0.005	<0.005	0.0122	0.0037	0.0159
ROST-3-MW	ROST3MW-ROX-012313	1/23/2013	37.81 - 47.81	41.50	NE	<0.005		<0.005		0.0066	<0.005	<0.001	0.0076	0.0156	0.0016	<0.005	<0.005	<0.001		0.0786	0.022	<0.005 UJ	0.114	0.0159	0.13
	ROST3MW-ROX-040513	4/5/2013				<0.005		<0.005		0.0032 J	<0.005	<0.001	0.132 J	0.0082	0.0076	<0.005	<0.005	<0.001		0.0531	0.0145	<0.005	0.0603	0.0126	0.0729
	ROST3MW-ROX-071113	7/11/2013		39.50	NE	<0.005		<0.005 UJ		0.0146	<0.005	<0.001	0.0411	0.0279	0.014	<0.005	<0.005	<0.001		0.164	0.0373	<0.005 UJ	0.644	0.124	0.768
	ROST3-MW-ROX-100913	10/9/2013		40.16	NE	<0.005 UJ		<0.005		0.0017 J	<0.005	<0.001	0.0045 J	0.0029 J	0.0018	<0.005	<0.005	<0.001		0.0168	0.0035 J	<0.005	0.0422	0.0123	0.0546
	ROST3MW-ROX-011714	1/17/2014	37.81 - 47.81	42.20	NE	<0.005		<0.005		0.00099 J	<0.005	<0.001	<0.005	0.002 J	0.0012	<0.005	<0.005	<0.001		0.0207	0.0057	<0.005	0.0377	0.0063	0.044
ROST-4-PZ(C)	ROST4PZ-C-051412	5/14/2012	34.95 - 44.95	39.04	NE	<0.005		<0.005		<0.005	<0.005	<0.001	0.0018	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	ROST4PZ-C-ROX-072512	7/25/2012		39.10	NE	<0.005 UJ		<0.005		0.0036 J	<0.005	<0.001	0.0331	0.0059	0.0596	<0.005	<0.005	<0.001		0.0374	0.0076	<0.005	0.373	0.207	0.581
	ROST4PZC-ROX-102912	10/29/2012		40.75	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.0021	<0.001	0.0021
	ROST4PZ(C)-ROX-011113	1/11/2013		41.42	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		0.002 J	0.0014 J	<0.005	0.0018	<0.001	0.0018
	ROST4PZC-ROX-041013	4/10/2013		42.27	NE	<0.005		<0.005 UJ		0.00061 J J	<0.005 UJ	<0.001	<0.005	0.0011 J	0.0006 J J	<0.005 UJ	<0.005 UJ	<0.001 UJ		0.0016 J	<0.005	<0.005	<0.001 UJ	<0.001 UJ	<0.001 UJ
	ROST4PZC-ROX-071113	7/11/2013		40.18	NE	<0.005		<0.005 UJ		0.0025 J	<0.005	<0.001	0.0189	0.0041 J	0.041	<0.005	<0.005	<0.001		0.0194	0.0044 J	<0.005 UJ	0.126	0.0649	0.191
	ROST4PZC-ROX-100913	10/9/2013		39.91	NE	<0.005 UJ		<0.005		0.00066 J	<0.005	<0.001	0.0054	0.0012 J	0.0013	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.0101	0.0054	0.0155
	ROST4PZC-ROX-011714	1/17/2014	34.95 - 44.95	41.92	NE	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	0.00073 J	0.0014	<0.005	<0.005	<0.001		0.0017 J	<0.005	<0.005	0.0124	0.0057	0.018
T-12	T12-ROX-102711	10/27/2011	46.72 - 72.72	38.54	NE	<0.05		<0.05		<0.05	<0.05	<0.01	0.105	<0.05	0.233	<0.05	<0.05	<0.01		0.358	0.0527	<0.05	1.13	0.108	1.24
	T12-ROX-011912	1/19/2012		41.0	NE	<0.005		<0.005		0.022	<0.005	0.0016	0.132	0.03	0.175	<0.005	<0.005	<0.001		0.34	0.0715	0.0952	0.684	0.0399	0.724
	T12-ROX-050912	5/9/2012		42.62	NE	<0.025		<0.025		0.0572	<0.025	<0.005	0.0924	0.101	0.388	<0.025	<0.025	<0.005		0.476	0.0765	<0.025	2.87	0.251	3.12
	T12-ROX-080212	8/2/2012		41.92	NE	<0.05		<0.05		0.0297 J	<0.05	<0.01	0.0625	0.0486 J	0.197	<0.05	<0.05	<0.01		0.403	0.0474 J	<0.05	1.32	0.0709	1.39
	T12-ROX-110512	11/5/2012		43.91	NE	<0.05		<0.05		0.0468 J	<0.05	<0.01	0.125	0.0831	0.322	<0.05	<0.05	<0.01		0.385	0.0543	<0.05	2.55	0.176	2.73
	T12-ROX-011813	1/18/2013		44.50	NE	<0.025		<0.025		0.031	<0.025	<0.005	0.129	0.0466	0.184	<0.025	<0.025	<0.005		0.42	0.0407	<0.025	1.11	0.0252	1.13
	T12-ROX-041513	4/15/2013		44.99	NE	<0.05		<0.05		0.0405 J	<0.05	<0.01	0.266 J	0.076	0.592	<0.05	<0.05	<0.01		0.309	<0.05	<0.05	1.2	0.104	1.3
	T12-ROX-071613	7/16/2013		42.33	NE	<0.005 UJ		<0.005		0.0363 J	<0.005	<0.001	0.122 J	0.0627 J	0.186 J	<0.005	<0.005	<0.001		0.361 J	0.0238 J	<0.005 UJ	0.794 J	0.0145 J	0.808 J
	T12-ROX-101513	10/15/2013		43.73	NE	<0.025		<0.025		0.0618	<0.025	<0.005	0.215 J	0.114	0.697	<0.025	<0.025	<0.005		0.575	0.0607	<0.025	2.43	0.139	2.57
	T12-ROX-012414	1/24/2014	46.72 - 72.72	45.26	NE	<0.005		<0.005		0.0362	<0.005	<0.001	0.171	0.0676	0.421	<0.005	<0.005	<0.001		0.526	0.0507	<0.005	1.12	0.0469	1.23

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						SVOCs																		
						Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic Acid	Benzyl alcohol	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl)phthalate	Butyl benzyl phthalate	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol	Dimethyl phthalate
			Screening Values (mg/L)			0.42 [1]	0.21 [3]	2.1 [1]	0.00013 [1]	0.0002 [1]	0.00018 [1]	0.21 [3]	0.00017 [1]	28 [1]	0.7 [3]	0.01 [2]	0.006 [2]	1.4 [2]		0.0015 [2]	0.0003 [1]	0.007 [3]	0.021 [2]	5.6 [1]	0.14 [2]	
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
MW-01	MW1-ROX-042911	4/29/2011	43.41 - 58.41	38.37	NE	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	<0.013 UJ	<0.013	<0.0063	<0.00077 U	<0.0063	<0.013	<0.0063	<0.0063	<0.0063	<0.013	<0.0063	<0.013	<0.0063
	MW1-ROX-072711	7/27/2011		35.77	NE	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005
	MW1-ROX-120511	12/5/2011		37.10	NE	<0.0001	<0.0001	<0.0001	<0.000051	<0.0001	<0.000056 U	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0001	<0.0001	<0.0051	<0.01	<0.0051	<0.01	<0.0051
	MW1-ROX-011612	1/16/2012	48.80 - 58.80	37.75	NE	0.000077 J	0.000035 J	0.000062 J	0.00011	0.0001	0.00011	<0.00011 U	0.00012	<0.01 UJ	<0.01	<0.0051	<0.002	<0.00039 U	<0.01	0.00011	<0.00011 U	<0.0051	<0.01	<0.0051	<0.01	<0.0051
	MW1-ROX-050112	5/1/2012		39.09	NE	<0.0001	<0.0001	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0001	<0.0001	<0.0051	<0.01	<0.0051	<0.01	<0.0051
	MW1-ROX-073012	7/30/2012		39.39	NE	<0.00011	<0.00011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	0.00032 J	<0.011	<0.0053
	MW1-ROX-102612	10/26/2012		41.22	NE	<0.00011	<0.00011	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0057	0.00099 J	<0.0057	<0.011	<0.00011	<0.00011	<0.0023	<0.011	<0.0057	<0.011	<0.0057
	MW1-ROX-121712	12/17/2012		41.22	NE																					
	MW1-ROX-011013	1/10/2013		41.89	NE	<0.000024 U	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052 UJ
	MW1-ROX-040913	4/9/2013		42.55	NE	<0.00011	<0.00011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.0011 U	<0.011	<0.0053 UJ
	MW1-ROX-070813	7/8/2013		39.56	NE	<0.000026 U	<0.0001	<0.0001	<0.000051	<0.0001	0.000027 J	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.0024 U	<0.0051	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01	<0.0051
	MW1-ROX-100313	10/3/2013		40.28	NE	<0.00011	<0.00011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.00065 J	<0.0054	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	MW1-ROX-011414	1/14/2014	48.80 - 58.80	42.77	NE	<0.00011	<0.00011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0021	<0.0053	<0.011 UJ	<0.00011	<0.00011	<0.0021	<0.011 UJ	<0.0053	<0.011 UJ	<0.0053
MW-02	MW02-ROX-051011	5/10/2011	47.19 - 62.19	39.14	NE	<0.0001 UJ	<0.0001 UJ	<0.0001 UJ	<0.000052 UJ	<0.0001 UJ	<0.000052 UJ	<0.0001 UJ	<0.0001 UJ	<0.01	0.0019 J	<0.0052	<0.0029 U	<0.0052 UJ	<0.01	<0.0001 UJ	<0.0001 UJ	<0.0052	<0.01	0.0016 J J	<0.01	<0.0052 UJ
	MW2-ROX-072711	7/27/2011		37.04	NE	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005
	MW2-ROX-072711-DUP	7/27/2011		37.04	NE	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005
	MW2-ROX-112811	11/28/2011	49.87 - 59.87	38.03	NE	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005
	MW2-ROX-011612	1/16/2012		38.89	NE	0.000057 J	<0.00011	<0.00011	<0.000053	0.000033 J	0.00004 J	<0.000047 U	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.00083 U	<0.00047 U	<0.011	<0.00011	<0.000047 U	<0.0053	<0.011	<0.0053	0.0035 J	<0.0053
	MW2-ROX-050112	5/1/2012		40.25	NE	<0.0001	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	0.0055 J	<0.0052
	MW2-ROX-073012	7/30/2012		40.60	NE	0.000051 J	<0.00011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	0.00059 J	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	0.00036 J	0.0045 J	<0.0053
	MW2-ROX-102612	10/26/2012		42.35	NE	0.000093 J	<0.00011	<0.00011	0.00016	<0.00011	<0.000054	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	0.0034 J	<0.0054
	MW2-ROX-011113	1/11/2013		42.94	NE	0.00016	0.000019 J	<0.00011	<0.000056	0.000027 J	0.000039 J	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056 UJ
	MW2-ROX-040913	4/9/2013		43.70	NE	<0.00011	<0.00011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	0.005 J	<0.0054 UJ
	MW2-ROX-071113	7/11/2013		40.82	NE	0.000035 J	<0.00011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0055	0.00063 J	<0.0055	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	0.005 J	<0.0055
	MW2-ROX-100813	10/8/2013		41.73	NE	<0.00011	<0.00011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	MW2-ROX-012014	1/20/2014	49.87 - 59.87	44.00	NE	<0.00011	0.00018	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
MW-03	MW03-ROX-051011	5/10/2011	30.98 - 45.98	24.79	NE	<0.0001 UJ	<0.0001 UJ	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.0001 UJ	<0.01	<0.01	<0.005	<0.0025 U	0.0064 J	<0.01	<0.0001 UJ	<0.0001 UJ	<0.005	<0.01	<0.005 UJ	<0.01	<0.005 UJ
	MW3-ROX-080311	8/3/2011		22.72	NE	<0.000095	<0.000095	<0.000095	<0.000048	<0.000095	<0.000048	<0.000095	<0.000095	<0.0095 UJ	<0.0095	<0.0048	0.0084	<0.0048	<0.0095	<0.000095	<0.000095	<0.0048	<0.0095	<0.0048	<0.0095	<0.0048
	MW3-ROX-112911	11/29/2011	34.67 - 44.67	24.06	NE	<0.0001	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	<0.01	<0.0052
	MW3-ROX-112911-DUP	11/29/2011		24.06	NE	<0.0001	<0.0001	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0001	<0.0001	<0.0051	<0.01	<0.0051	<0.01	<0.0051
	MW3-ROX-011612	1/16/2012		24.93	NE	<0.0001	<0.0001	0.000063 J	0.00011	0.00012	0.00013	<0.00013 U	0.00012	<0.01 UJ	<0.01	<0.0052	<0.0004 U	<0.00039 U	<0.01	0.000098 J	<0.00013 U	<0.0052	<0.01	<0.0052	<0.01	<0.0052
	MW3-ROX-043012	4/30/2012		26.19	NE	<0.0001	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	<0.01	<0.0052
	MW3-ROX-072712	7/27/2012		26.60	NE	<0.00011	<0.00011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011 UJ	<0.00011	<0.011	<0.011	<0.0053	<0.00067 U	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	MW3-ROX-102512	10/25/2012		28.39	NE	<0.0001	<0.0001	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.00059 U	<0.01	<0.0051
	MW3-ROX-010913	1/9/2013		29.35	NE	<0.0001	0.000023 J	0.000037 J	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005
	MW3-ROX-040813	4/8/2013		29.74	NE	<0.00011	<0.00011	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.011	<0.011	<0.0057	<0.0023	<0.0057	<0.011	<0.00011	<0.00011	<0.0023	<0.011	<0.0057	<0.011	<0.0057
	MW3-ROX-071113	7/11/2013		26.32	NE	0.000028 J	<0.00011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0054	0.0038	<0.0054	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	MW3-ROX-100813	10/8/2013		27.38	NE	<0.00011	<0.00011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	MW3-ROX-011614	1/16/2014	34.67 - 44.67	29.91	NE	<0.00011	<0.00011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0021	<0.0053	<0.011 UJ	<0.00011	<0.00011	<0.0021	<0.011 UJ	<0.0053	<0.011 UJ	<0.0053

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						SVOCs																		
						Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic Acid	Benzyl alcohol	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl)phthalate	Butyl benzyl phthalate	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol	Dimethyl phthalate
Screening Values (mg/L)						0.42 [1]	0.21 [3]	2.1 [1]	0.00013 [1]	0.0002 [1]	0.00018 [1]	0.21 [3]	0.00017 [1]	28 [1]	0.7 [3]	0.01 [2]	0.006 [2]	1.4 [2]		0.0015 [2]	0.0003 [1]	0.007 [3]	0.021 [2]	5.6 [1]	0.14 [2]	
Location	**Sample ID**	**Sample Date**	**Screened Interval (ft btoc)**	**Depth to Water (ft btoc)**	**Product Thickness (ft)**	**Analytical Results (mg/L)**																				
MW-04	MW04-ROX-051111	5/11/2011	42.63 - 57.63	36.19	NE	<0.0001 UJ	<0.0001 UJ	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.0001 UJ	<0.01	<0.01	<0.005	<0.0023 U	0.0063 J	<0.01	<0.0001 UJ	<0.0001 UJ	<0.005	<0.01	<0.005 UJ	<0.01	<0.005 UJ
	MW4-ROX-072611	7/26/2011		34.15	NE	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	0.0102	<0.01	<0.005	<0.0057 U	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005
	MW4-ROX-072611-DUP	7/26/2011		34.15	NE	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	0.0103	<0.01	<0.005	<0.002 U	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005
	MW4-ROX-121511	12/15/2011		33.99	NE	<0.0001	0.00011	<0.0001	<0.000052	0.00012	<0.000087 U	<0.00063 U	<0.0001	<0.01 UJ	<0.01	<0.0052	<0.0028 U	<0.0052	<0.01	<0.0001	<0.00035 U	<0.0052	<0.01	<0.0052	<0.01	<0.0052
	MW4-ROX-011612	1/16/2012	46.06 - 56.06	36.00	NE	<0.0001	<0.0001	0.00003 J	0.00012	0.00012	0.00013	<0.0002 U	0.00015	<0.01 UJ	<0.01	<0.0052	<0.0005 U	<0.00073 U	<0.01	0.00014	<0.00019 U	<0.0052	<0.01	<0.0052	<0.01	<0.0052
	MW4-ROX-050312	5/3/2012		37.45	NE	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005
	MW4-ROX-050312-DUP	5/3/2012		37.45	NE	<0.0001	<0.0001	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0001	<0.0001	<0.0051	<0.01	<0.0051	<0.01	<0.0051
	MW4-ROX-072512	7/25/2012		37.63	NE	<0.0001	<0.0001	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	0.0056 J	<0.01	<0.0051	<0.00079 U	0.00039 J	<0.01	<0.0001	<0.0001	<0.002	<0.01	0.0014 J	<0.01	<0.0051
	MW4-ROX-072512-Dup	7/25/2012		37.63	NE	<0.0001	<0.0001	<0.0001	<0.000051	<0.0001	<0.000046 U	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.00069 U	<0.0051	<0.01	<0.0001	<0.0001	<0.002	<0.01	0.0012 J	<0.01	<0.0051
	MW4-ROX-102912	10/29/2012		39.45	NE	<0.0001	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
	MW4-ROX-011113	1/11/2013		40.20	NE	<0.00011	<0.00011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056 UJ
	MW4-ROX-011113-DUP	1/11/2013		40.20	NE	<0.00012	<0.00012	<0.00012	<0.00006	<0.00012	<0.00006	<0.00012	<0.00012	<0.012	<0.012	<0.006	<0.0024	<0.006	<0.012	<0.00012	<0.00012	<0.0024	<0.012	<0.006	<0.012	<0.006 UJ
	MW4-ROX-030413	3/4/2013		40.20	NE																					
	MW4-ROX-040913	4/9/2013		40.90	NE	<0.00011	<0.00011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053 UJ
	MW4-ROX-040913-DUP	4/9/2013		40.90	NE	<0.00011	<0.00011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.0053 UJ	<0.011	<0.0053 UJ
	MW4-ROX-071713	7/17/2013		37.61	NE	<0.000036 U	<0.00011	<0.00011	<0.000055	0.00004 J	0.000034 J	0.000061 J	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011	<0.0055
	MW4-ROX-101613	10/16/2013		38.80	NE	<0.00011	<0.00011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0054	<0.0022	<0.0054	<0.011 UJ	<0.00011	<0.00011	<0.0022	<0.011 UJ	<0.0054	<0.011 UJ	<0.0054
	MW4-ROX-013014	1/30/2014	46.06 - 56.06	41.09	NE	<0.00011	<0.00011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0054	<0.0022	<0.0054	<0.011 UJ	<0.00011	<0.00011	<0.0022	<0.011 UJ	<0.0054	<0.011 UJ	<0.0054
MW-05	MW05-ROX-051211	5/12/2011	31.13 - 46.13	23.98	NE	<0.00011 UJ	<0.00011 UJ	<0.00011 UJ	<0.000053 UJ	<0.00011 UJ	<0.000053 UJ	<0.00011 UJ	<0.00011 UJ	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00011 UJ	<0.00011 UJ	<0.0053	<0.011	<0.0053	<0.011	<0.0053
	MW5-ROX-072611	7/26/2011		22.00	NE	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005
	MW5-ROX-072611-DUP	7/26/2011		22.00	NE	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005
	MW5-ROX-112111	11/21/2011	33.97 - 43.97	23.46	NE	<0.00011	<0.00011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	0.00079 J	<0.0053	<0.011	<0.00011	<0.00011	<0.0053	<0.011	<0.0053	<0.011	<0.0053
	MW5-ROX-011712	1/17/2012		24.76	NE	<0.00011	<0.00011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0015 U	<0.00049 U	<0.011	<0.00011	<0.00011	<0.0053	<0.011	<0.0053	<0.011	<0.0053
	MW5-ROX-050312	5/3/2012		25.89	NE	<0.0001	<0.0001	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0001	<0.0001	<0.0051	<0.01	<0.0051	<0.01	<0.0051
	MW5-ROX-072512	7/25/2012		26.18	NE	<0.0001	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.00064 U	<0.0052	<0.01	<0.0001	<0.0001	<0.0021	<0.01	0.0011 J	<0.01	<0.0052
	MW5-ROX-102912	10/29/2012		28.16	NE	<0.0001	<0.0001	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01	<0.0051
	MW5-ROX-011113	1/11/2013		28.75	NE	0.000071 J	0.000066 J	0.000028 J	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011	<0.0055 UJ
	MW5-ROX-040913	4/9/2013		29.41	NE	<0.00011	<0.00011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054 UJ
	MW5-ROX-070913	7/9/2013		26.04	NE	<0.0001	<0.0001	<0.0001	0.0001 J	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005
	MW5-ROX-100813	10/8/2013		26.97	NE	<0.00011	<0.00011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011	<0.0055
	MW5-ROX-011714	1/17/2014	33.97 - 43.97	29.59	NE	<0.00011	<0.00011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
MW-06A	MW6A-ROX-051611	5/16/2011	31.98 - 46.98	26.10	NE	<0.0001 UJ	<0.0001 UJ	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.0001 UJ	<0.01	<0.01	<0.005	0.0026	<0.005	<0.01	<0.0001 UJ	<0.0001 UJ	<0.005	<0.01	<0.00083 U	<0.01	<0.005
	MW6A-ROX-072611	7/26/2011		23.76	NE	0.00024	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002 U	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005
	MW6A-ROX-112111	11/21/2011	34.83 - 44.83	25.49	NE	<0.0001	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	0.0023	0.00077 J	<0.01	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	<0.01	<0.0052
	MW6A-ROX-112111-DUP	11/21/2011		25.49	NE	<0.0001	<0.0001	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0051	0.0011 J	0.00054 J	<0.01	<0.0001	<0.0001	<0.0051	<0.01	<0.0051	<0.01	<0.0051
	MW6A-ROX-011712	1/17/2012		26.74	NE	<0.00011	<0.00011	<0.00011	<0.000064 U	<0.00008 U	<0.00009 U	<0.00015 U	0.000094 J	<0.011 UJ	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.00011	<0.00014 U	<0.0054	<0.011	<0.0054	<0.011	<0.0054
	MW6A-ROX-050212	5/2/2012		27.77	NE	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.0029 UJ	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005
	MW6A-ROX-080112	8/1/2012		28.36	NE	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005
	MW6A-ROX-102412	10/24/2012		30.06	NE	<0.00011	<0.00011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	MW6A-ROX-011413	1/14/2013		31.00	NE	<0.0001	<0.0001	<0.0001	<0.000051	<0.0001	<0.000051	0.000073 J	<0.0001	<0.01 UJ	<0.01	<0.0051	0.00054 J	<0.0051	<0.01	<0.0001	0.000066 J	<0.002	<0.01	<0.0051	<0.01	<0.0051 UJ
	MW6A-ROX-040313	4/3/2013		31.62	NE	<0.00011	<0.00011 UJ	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011 UJ	<0.0053	0.00052 J	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	MW6A-ROX-070913	7/9/2013		28.25	NE	<0.00011	<0.00011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011	<0.0055
	MW6A-ROX-070913-DUP	7/9/2013		28.25	NE	<0.00011	<0.00011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011	<0.0055
	MW6A-ROX-100713	10/7/2013		28.87	NE	0.0001 J	<0.00011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.00082 U	<0.011	<0.0056 UJ
	MW6A-ROX-100713-DUP	10/7/2013		28.87	NE	0.000093 J	<0.00011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.00011	<0.00011	<0.0022	<0.011	0.00078 J	<0.011	<0.0054 UJ
	MW6A-ROX-011614	1/16/2014	34.83 - 44.83	31.62	NE	<0.0001	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
	MW6A-ROX-011614-DUP	1/16/2014		31.62	NE	<0.00011	<0.00011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						SVOCs																			
						Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic Acid	Benzyl alcohol	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl)phthalate	Butyl benzyl phthalate	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol	Dimethyl phthalate
					Screening Values (mg/L)	0.42 [1]	0.21 [3]	2.1 [1]	0.00013 [1]	0.0002 [1]	0.00018 [1]	0.21 [3]	0.00017 [1]	28 [1]	0.7 [3]	0.01 [2]	0.006 [2]	1.4 [2]		0.0015 [2]	0.0003 [1]	0.007 [3]	0.021 [2]	5.6 [1]	0.14 [2]	
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																			
MW-06B	MW6B-ROX-051611	5/16/2011	64.05 - 69.05	25.95	NE	<0.000095 UJ	0.000098 J	<0.000095 UJ	<0.000048 UJ	<0.000095 UJ	<0.000048 UJ	<0.000095 UJ	<0.000095 UJ	<0.0095	<0.0095	<0.0048	0.0023	<0.0048	<0.0095	<0.000095 UJ	<0.000095 UJ	<0.0048	<0.0095	<0.00078 U	<0.0095	<0.0048
	MW6B-ROX-051611-DUP	5/16/2011		25.95	NE	<0.0001 UJ	<0.0001 UJ	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.0001 UJ	<0.01	<0.01	<0.005	0.0024	<0.005	<0.01	<0.0001 UJ	<0.0001 UJ	<0.005	<0.01	<0.00096 U	<0.01	<0.005
	MW6B-ROX-072311	7/23/2011		23.60	NE	<0.00011	<0.00011	<0.00011	<0.00075 U	<0.0002 U	<0.00019 U	<0.00007 U	<0.00023 U	<0.011 UJ	<0.011	<0.0053	0.00077 J	<0.0053	<0.011	<0.0008 U	<0.000031 U	<0.0053	<0.011	<0.0053	<0.011	<0.0053 UJ
	MW6B-ROX-110311	11/3/2011		24.67	NE	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01 UJ	<0.005
	MW6B-ROX-011712	1/17/2012		26.77	NE	<0.00011	<0.00011	<0.00011	<0.000055	<0.00015 U	<0.00011 U	<0.00028 U	0.0001 J	<0.011 UJ	<0.011	<0.0055	<0.0011 U	<0.0055	<0.011	<0.00011	<0.00027 U	<0.0055	<0.011	<0.0055	<0.011	<0.0055
	MW6B-ROX-050212	5/2/2012		27.82	NE	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005
	MW6B-ROX-080112	8/1/2012		28.39	NE	<0.0001	<0.0001	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	0.00049 J	<0.0051	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01	<0.0051
	MW6B-ROX-102412	10/24/2012		30.11	NE	<0.0001	<0.0001	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	0.00057 J	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01	<0.0051
	MW6B-ROX-011713	1/17/2013		31.11	NE	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005
	MW6B-ROX-040313	4/3/2013		31.68	NE	<0.00011	<0.00011 UJ	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011 UJ	<0.0054	<0.0022	<0.0054	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	MW6B-ROX-070913	7/9/2013		28.25	NE	<0.00011	<0.00011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
	MW6B-ROX-100713	10/7/2013		28.93	NE	<0.00011	<0.00011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.00057 U	<0.0054	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.00084 U	<0.011	<0.0054 UJ
	MW6B-ROX-011614	1/16/2014	64.05 - 69.05	31.67	NE	<0.00011	<0.00011	<0.00011	<0.000054	<0.00011	<0.000054	0.000051 J	<0.00011	<0.011 UJ	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.00011	0.000042 J	<0.0022	<0.011	<0.0054	<0.011	<0.0054
MW-06C	MW6C-ROX-051611	5/16/2011	84.95 - 89.95	25.76	NE	<0.0001 UJ	0.000046 J J	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.0001 UJ	<0.01	<0.01	<0.005	0.0025	0.0064	<0.01	<0.0001 UJ	<0.0001 UJ	<0.005	<0.01	<0.00063 U	<0.01	<0.005
	MW6C-ROX-072411	7/24/2011		23.43	NE	<0.00011	<0.00011	<0.00011	0.00016 B	0.00013 B	0.00014 B	0.000041 J	0.00016 B	<0.011 UJ	<0.011	<0.0053	<0.0021	<0.0053	<0.011	0.00015 B	<0.00011	<0.0053	<0.011	<0.0053	<0.011	<0.0053 UJ
	MW6C-ROX-110311	11/3/2011		24.47	NE	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01 UJ	<0.005
	MW6C-ROX-011712	1/17/2012		26.50	NE	<0.00011	<0.00011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0054	<0.0022	<0.00046 U	<0.011	<0.00011	<0.00011	<0.0054	<0.011	<0.0054	<0.011	<0.0054
	MW6C-ROX-050212	5/2/2012		27.62	NE	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005
	MW6C-ROX-080112	8/1/2012		28.15	NE	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005
	MW6C-ROX-102412	10/24/2012		27.85	NE	<0.0001	<0.0001	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01	<0.0051
	MW6C-ROX-011713	1/17/2013		30.88	NE	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005
	MW6C-ROX-040313	4/3/2013		31.41	NE	<0.0001	<0.0001 UJ	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01 UJ	<0.0052	<0.0021	<0.0052	<0.01	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
	MW6C-ROX-070913	7/9/2013		28.03	NE	<0.00011	<0.00011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
	MW6C-ROX-100713	10/7/2013		28.72	NE	<0.00011	<0.00011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.00056 U	<0.0055	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0013 U	<0.011	<0.0055 UJ
	MW6C-ROX-011614	1/16/2014	84.95 - 89.95	31.48	NE	<0.00011	<0.00011	<0.00011	<0.000053	<0.00011	<0.000053	0.000041 J	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
MW-06D	MW6D-ROX-051611	5/16/2011	104.72 - 109.72	25.60	NE	<0.00011 UJ	<0.00011 UJ	<0.00011 UJ	<0.000055 UJ	<0.00011 UJ	<0.000055 UJ	<0.00011 UJ	<0.00011 UJ	<0.011	<0.011	<0.0055	0.0027	0.0069	<0.011	<0.00011 UJ	<0.00011 UJ	<0.0055	<0.011	<0.00085 U	<0.011	<0.0055
	MW6D-ROX-072311	7/23/2011		23.29	NE	<0.00011	<0.00011	<0.00011	<0.00038 U	<0.00015 U	<0.00017 U	<0.000049 U	<0.00019 U	<0.011 UJ	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00039 U	<0.00011	<0.0053	<0.011	<0.0053	<0.011	<0.0053 UJ
	MW6D-ROX-110311	11/3/2011		24.31	NE	<0.0001	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	<0.01 UJ	<0.0052
	MW6D-ROX-011712	1/17/2012		26.33	NE	<0.00011	<0.00011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.00011	<0.00011	<0.0055	<0.011	<0.0055	<0.011	<0.0055
	MW6D-ROX-050212	5/2/2012		27.45	NE	<0.0001	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.0044 UJ	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005
	MW6D-ROX-080212	8/2/2012		30.56	NE	<0.0001	<0.0001	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0001	<0.0001	<0.002	<0.01	0.00022 J	<0.01	<0.0051
	MW6D-ROX-102412	10/24/2012		29.71	NE	<0.0001	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
	MW6D-ROX-011713	1/17/2013		30.75	NE	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005
	MW6D-ROX-040313	4/3/2013		31.27	NE	<0.00011	<0.00011 UJ	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011 UJ	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	MW6D-ROX-070913	7/9/2013		27.91	NE	<0.00011	<0.00011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011	<0.0055
	MW6D-ROX-100713	10/7/2013		28.58	NE	<0.00011	<0.00011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.001 U	<0.011	<0.0054 UJ
	MW6D-ROX-011614	1/16/2014	104.72 - 109.72	31.33	NE	<0.0001	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
MW-07	MW07-ROX-051311	5/13/2011	42.92 - 52.92	37.50	NE	0.00011 J	<0.00011 UJ	0.000031 J J	<0.000054 UJ	<0.00011 UJ	<0.000054 UJ	<0.00011 UJ	<0.00011 UJ	<0.011	<0.011	<0.0054	<0.0032 U	<0.0071 U	<0.011	<0.00011 UJ	<0.00011 UJ	<0.0054	<0.011	<0.00097 U	<0.011	<0.0054
	MW07-ROX-051311D	5/13/2011		37.50	NE	0.00011 J	<0.00011 UJ	0.000034 J J	<0.000055 UJ	0.000018 J J	<0.000055 UJ	<0.00011 UJ	<0.00011 UJ	<0.011	<0.011	<0.0055	<0.0035 U	<0.007 U	<0.011	<0.00011 UJ	<0.00011 UJ	<0.0055	<0.011	<0.0055	<0.011	<0.0055
	MW7-ROX-072411	7/24/2011		35.65	NE	0.0001 J	<0.00011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0054	<0.0022	<0.0054	<0.011	0.000018 J	<0.00011	<0.0054	<0.011	<0.0054	<0.011	<0.0054 UJ
	MW-7-ROX-110211	11/2/2011		35.95	NE	<0.00026 U	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01 UJ	<0.005
	MW7-ROX-011812	1/18/2012		38.10	NE	0.00025	<0.0001	<0.0001	<0.00005	<0.000024 U	<0.00005	<0.0001	<0.0001		<0.01 UJ	<0.005	<0.002	0.00049 J	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005
	MW7-ROX-011812-DUP	1/18/2012		38.10	NE	0.00027	<0.00011	<0.00011	<0.000056	<0.00003 U	<0.000056	<0.00011	<0.00011		<0.011 UJ	<0.0056	0.00044 J	0.00048 J	<0.011	<0.00011	<0.00011	<0.0056	<0.011	<0.0056	<0.011	<0.0056
	MW7-ROX-050412	5/4/2012		39.19	NE	0.00028	<0.0001	<0.0001	0.00011	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	0.00071 J	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005
	MW7-ROX-080712	8/7/2012		39.50	NE	0.00024	0.000037 J	0.000022 J	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	0.0006 J	<0.0051	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.00058 U	<0.01	<0.0051
	MW7-ROX-103012	10/30/2012		41.23	NE	0.00031	<0.00012	<0.00012	<0.000058	<0.00012	<0.000058	<0.00012	<0.00012	<0.012	<0.012	<0.0058	0.0015 J	<0.0058	<0.012	<0.00012	<0.00012	<0.0023	<0.012	<0.0058	<0.012	<0.0058
	MW7-ROX-103012-DUP	10/30/2012		41.23	NE	0.00034	<0.00011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	0.0007 J	<0.0056	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
	MW7-ROX-011513	1/15/2013		42.21	NE	0.00073	0.00011	0.000059 J	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	0.00061 J	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053 UJ
	MW7-ROX-011513-DUP	1/15/2013		42.21	NE	0.00066	0.000093 J	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	0.00055 J	<0.0052	<0.01	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052 UJ
	MW7-ROX-041013	4/10/2013		42.70	NE	0.0012	0.00015	0.000089 J	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.00011	<0.00011	0.00083 J	<0.011	<0.0054	<0.011	<0.0054
	MW7-ROX-041013-DUP	4/10/2013		42.70	NE	0.0012	0.00016	0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	0.00088 J	<0.011	<0.0053	<0.011	<0.0053
	MW7-ROX-071713	7/17/2013		39.60	NE	0.00019	0.000031 J	0.000028 J	0.00004 J	0.000044 J	0.000045 J	0.00008 J	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.00011	0.000077 J	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	MW7-ROX-101613	10/16/2013		40.64	NE	0.00035	<0.00011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011	<0.0055
	MW7-ROX-013014	1/30/2014	42.92 - 52.92	42.94	NE	0.00028	<0.0001	0.00029	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						SVOCs																		
						Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic Acid	Benzyl alcohol	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl)phthalate	Butyl benzyl phthalate	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol	Dimethyl phthalate
				Screening Values (mg/L)		0.42 [1]	0.21 [3]	2.1 [1]	0.00013 [1]	0.0002 [1]	0.00018 [1]	0.21 [3]	0.00017 [1]	28 [1]	0.7 [3]	0.01 [2]	0.006 [2]	1.4 [2]		0.0015 [2]	0.0003 [1]	0.007 [3]	0.021 [2]	5.6 [1]	0.14 [2]	
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
MW-08	MW08-ROX-051311	5/13/2011	33.60 - 43.60	28.35	NE	0.00035 J	<0.00011 UJ	0.000063 J J	<0.000055 UJ	<0.00011 UJ	<0.000055 UJ	<0.00011 UJ	<0.00011 UJ	<0.011	<0.011	<0.0055	<0.0031 U	<0.0055	<0.011	<0.00011 UJ	<0.00011 UJ	<0.0055	<0.011	<0.0018 U	0.0225	<0.0055
	MW08-ROX-051311D	5/13/2011		28.35	NE	0.00029 J	<0.00011 UJ	0.000054 J J	<0.000056 UJ	<0.00011 UJ	<0.000056 UJ	<0.00011 UJ	<0.00011 UJ	<0.011	<0.011	<0.0056	<0.0034 U	<0.0056	<0.011	<0.00011 UJ	<0.00011 UJ	<0.0056	<0.011	<0.0011 U	0.0232	<0.0056
	MW8-ROX-072411	7/24/2011		26.02	NE	0.00029	<0.00011	0.000067 J	0.00013 B	0.00016 B	0.00016 B	0.000048 J	0.00017 B	<0.011 UJ	<0.011	<0.0054	0.0019 J	<0.0054	<0.011	0.000099 JB	<0.00011	<0.0054	<0.011	<0.0054	0.0228	<0.0054 UJ
	MW8-ROX-072411-DUP	7/24/2011		26.02	NE	0.00027	<0.00011	0.000062 J	0.00012 B	0.00019 B	0.00018 B	0.000058 J	0.00021 B	<0.011 UJ	<0.011	<0.0055	0.0013 J	<0.0055	<0.011	0.000099 JB	<0.00011	<0.0055	<0.011	<0.0055	0.0213	<0.0055 UJ
	MW-8-ROX-110211	11/2/2011		27.02	NE	<0.00023 U	<0.000095	<0.000095	<0.000048	<0.000095	<0.000048	<0.000095	<0.000095	<0.0095	<0.0095	<0.0048	<0.0019	<0.0048	<0.0095	<0.000095	<0.000095	<0.0048	<0.0095	<0.0048	0.0383 J	<0.0048
	MW8-ROX-011812	1/18/2012		29.15	NE	0.00038 J	<0.00053	<0.00053	<0.00026	<0.00053	<0.00026	<0.00053	<0.00053		<0.011 UJ	<0.0053	0.00052 J	0.00042 J	<0.011	<0.00053	<0.00053	0.0006 J	<0.011	<0.0053	0.015	<0.0053
	MW8-ROX-050412	5/4/2012		30.21	NE	<0.00011	<0.00011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	0.0204	<0.011	<0.0053	0.00053 J	<0.0053	<0.011	<0.00011	<0.00011	0.00044 J	<0.011	<0.0053	0.0595	<0.0053
	MW8-ROX-050412-DUP	5/4/2012		30.21	NE	<0.0001	<0.0001	<0.0001	0.00012	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	0.00047 J	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.005	0.0557	<0.005
	MW8-ROX-080712	8/7/2012		30.97	NE	0.00023	0.00013	0.000055 J	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.00051 J	<0.0054	<0.011	<0.00011	<0.00011	0.00035 J	<0.011	<0.0016 U	0.015	<0.0054
	MW8-ROX-080712-DUP	8/7/2012		30.97	NE	0.0002	0.00029	0.000071 J	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	0.00043 J	<0.0056	<0.011	<0.00011	<0.00011	0.0004 J	<0.011	<0.0018 U	0.0158	<0.0056
	MW8-ROX-103012	10/30/2012		32.32	NE	0.00026	0.00011	0.00044	<0.00087 U	0.00053 B	0.00057 B	0.00058 B	0.00064 B	<0.011	<0.011	<0.0053	0.0012 J	0.00086 J	<0.011	0.00066 B	0.00059 B	<0.0021	<0.011	<0.0053	0.0085 J	<0.0053
	MW8-ROX-011513	1/15/2013		33.30	NE	0.00017	0.000085 J	0.000029 J	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0056	0.00089 J	<0.0056	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	0.019	<0.0056 UJ
	MW8-ROX-041013	4/10/2013		33.77	NE	0.00018	0.000059 J	0.000072 J	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	0.0023	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	0.0358	<0.0053
	MW8-ROX-071713	7/17/2013		30.43	NE	0.0002	<0.0001	0.000049 J	<0.000052	0.000021 J	<0.000052	0.00004 J	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	0.009 J	<0.0052
	MW8-ROX-071713-DUP	7/17/2013		30.43	NE	0.00019	0.000056 J	0.000061 J	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.00011	<0.00011	0.0004 J	<0.011	<0.0054	0.0089 J	<0.0054
	MW8-ROX-101613	10/16/2013		31.59	NE	0.00021	0.000089 J	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.00011	<0.00011	0.0005 J	<0.011	<0.0054	0.0066 J	<0.0054
	MW8-ROX-101613-DUP	10/16/2013		31.59	NE	0.0002	0.000058 J	<0.00012	<0.000059	<0.00012	<0.000059	<0.00012	<0.00012	<0.012	<0.012	<0.0059	<0.0024	<0.0059	<0.012	<0.00012	<0.00012	0.0004 J	<0.012	<0.0059	0.0062 J	<0.0059
	MW8-ROX-013014	1/30/2014	33.60 - 43.60	34.02	NE	0.0002	0.000089 J	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	0.00053 J	<0.0051	<0.01	<0.0001	<0.0001	0.0005 J	<0.01	<0.0051	0.0124	<0.0051
	MW8-ROX-013014-DUP	1/30/2014		34.02	NE	0.00021	0.000083 J	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.00072 J	<0.0054	<0.011	<0.00011	<0.00011	0.00053 J	<0.011	<0.0054	0.0121	<0.0054
MW-09	MW09-ROX-050611	5/6/2011	46.45 - 56.45	40.12	NE	<0.000097 UJ	<0.000097 UJ	<0.000097 UJ	<0.000049 UJ	<0.000097 UJ	<0.000049 UJ	<0.000097 UJ	<0.000097 UJ	<0.0097	<0.0097	<0.0049	<0.0019	<0.0049	<0.0097	<0.000097 UJ	<0.000097 UJ	<0.0049	<0.0097	<0.0018 U	<0.0097	<0.0049
	MW9-ROX-072311	7/23/2011		38.06	NE	<0.00011	<0.00011	<0.00011	<0.00021 U	<0.00013 U	<0.00015 U	<0.000046 U	<0.00018 U	<0.01 UJ	<0.011	<0.0054	<0.0022	<0.0054	<0.01 UJ	<0.0002 U	<0.00011	<0.0054	<0.01 UJ	<0.0054	<0.01 UJ	<0.0054 UJ
	MW9-ROX-110111	11/1/2011		37.78	NE	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005
	MW9-ROX-011612	1/16/2012		39.50	NE	<0.00011	<0.00011	<0.00011	<0.000057	0.000058 J	0.000051 J	<0.000096 U	<0.00011	<0.011 UJ	<0.011	<0.0057	<0.00085 U	<0.00037 U	<0.011	<0.00011	<0.000078 U	<0.0057	<0.011	<0.0057	<0.011	<0.0057
	MW9-ROX-050312	5/3/2012		41.03	NE												0.0016 J J	0.00045 JB J								
	MW9-ROX-072712	7/27/2012		41.30	NE	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001 UJ	<0.0001	<0.01	<0.01	<0.005	<0.00043 U	<0.005	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005
	MW9-ROX-102912	10/29/2012		43.17	NE	<0.0001	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
	MW9-ROX-011113	1/11/2013		43.90	NE	0.000068 J	0.000064 J	0.00006 J	<0.000054	<0.00011	0.000026 J	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054 UJ
	MW9-ROX-040913	4/9/2013		44.67	NE	<0.0001 UJ	<0.0001 UJ	<0.0001 UJ	<0.000052 UJ	<0.0001 UJ	<0.000052 UJ	<0.0001 UJ	<0.0001 UJ	<0.01 UJ	<0.01 UJ	<0.0052 UJ	<0.0021 UJ	<0.0052 UJ	<0.01 UJ	<0.0001 UJ	<0.0001 UJ	<0.0021 UJ	<0.01 UJ	<0.0016 UJ	<0.01 UJ	<0.0052 UJ
	MW9-ROX-070813	7/8/2013		42.35	NE	<0.00011	<0.00011	<0.00011	<0.000056	<0.00011	0.000035 J	<0.00011	<0.00011		<0.011	<0.0056	<0.0022	<0.0056		<0.00011	<0.00011	<0.0022		<0.0056		<0.0056
	MW9-ROX-100313	10/3/2013		42.27	NE	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005
	MW9-ROX-011414	1/14/2014	46.45 - 56.45	44.47	NE	<0.00011	<0.00011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0021	<0.0053	<0.011 UJ	<0.00011	<0.00011	<0.0021	<0.011 UJ	<0.0053	<0.011 UJ	<0.0053 UJ
MW-10	MW10-ROX-042811	4/28/2011	44.43 - 54.43	40.20	NE	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0095 UJ	<0.0095	<0.0048	<0.00051 U	<0.0048	<0.0095	<0.0048	<0.0048	<0.0048	<0.0095	<0.0048	<0.0095	<0.0048
	MW10-ROX-072311	7/23/2011		38.01	NE	<0.0001	<0.0001	<0.0001	<0.00025 U	<0.00013 U	<0.00014 U	<0.000039 U	<0.00017 U	<0.01 UJ	<0.01	<0.005	<0.002	<0.005	<0.01	<0.00027 U	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005 UJ
	MW10-ROX-110111	11/1/2011		37.72	NE	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005
	MW10-ROX-011612	1/16/2012		39.28	NE	<0.00011	<0.00011	0.000027 J	0.000037 J	0.000031 J	0.000043 J	<0.000042 U	<0.00011	<0.011 UJ	<0.011	<0.0053	0.0255	<0.0013 U	<0.011	<0.00011	<0.00011	<0.0053	<0.011	<0.0053	<0.011	<0.0053
	MW10-ROX-050112	5/1/2012		40.86	NE	<0.0001	<0.0001	0.000018 J	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	<0.01	<0.0052
	MW10-ROX-072712	7/27/2012		41.21	NE	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001 UJ	<0.0001	<0.01	<0.01	<0.005	<0.00067 U	<0.005	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005
	MW10-ROX-102612	10/26/2012		43.08	NE	<0.00011	<0.00011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
	MW10-ROX-121712	12/17/2012		43.08	NE																					
	MW10-ROX-011013	1/10/2013		44.10	NE	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005 UJ
	MW10-ROX-012113	1/21/2013		44.10	NE	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.05	<0.02	<0.01	<0.006	<0.01	<0.02	<0.0001	<0.0001	<0.01	<0.01	<0.01	<0.01	<0.01
	MW10-ROX-040913	4/9/2013		44.60	NE	<0.00011	<0.00011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0018 U	<0.011	<0.0054 UJ
	MW10-ROX-070813	7/8/2013		42.27	NE	<0.00011	<0.00011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0027 U	<0.0056	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
	MW10-ROX-100313	10/3/2013		42.38	NE	<0.00011	<0.00011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
	MW10-ROX-011514	1/15/2014	44.43 - 54.43	44.42	NE	<0.00011	<0.00011	<0.00011	<0.000053	<0.00011	<0.000053	0.000096 J	<0.00011	<0.011 UJ	<0.011	<0.0053	0.00054 J	<0.0053	<0.011 UJ	<0.00011	0.000074 J	<0.0021	<0.011 UJ	<0.0053	<0.011 UJ	<0.0053

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						SVOCs																		
						Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic Acid	Benzyl alcohol	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl)phthalate	Butyl benzyl phthalate	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol	Dimethyl phthalate
					Screening Values (mg/L)	0.42 [1]	0.21 [3]	2.1 [1]	0.00013 [1]	0.0002 [1]	0.00018 [1]	0.21 [3]	0.00017 [1]	28 [1]	0.7 [3]	0.01 [2]	0.006 [2]	1.4 [2]		0.0015 [2]	0.0003 [1]	0.007 [3]	0.021 [2]	5.6 [1]	0.14 [2]	
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
MW-11	MW11-ROX-050611	5/6/2011	41.66 - 51.66	37.60	NE	<0.000095 UJ	<0.000095 UJ	<0.000095 UJ	<0.000042 UJ	<0.000095 UJ	0.000025 J J	0.000022 J J	0.000014 J J	<0.0095	<0.0095	<0.0048	<0.0028 U	<0.0048	<0.0095	0.000037 J J	<0.000095 UJ	<0.0048	<0.0095	<0.0009 U	<0.0095	<0.0048
	MW11-ROX-072411	7/24/2011		34.3	NE	<0.00011	<0.00011	<0.00011	0.00013 B	0.00012 B	0.00013 B	0.000035 J	0.00014 B	<0.011 UJ	<0.011	<0.0056	<0.0022	<0.0056	<0.011	0.00013 B	<0.00011	<0.0056	<0.011	<0.0056	<0.011	<0.0056 UJ
	MW-11-ROX-110211	11/2/2011		35.44	NE	<0.00011	<0.00011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.00011	<0.00011	<0.0054	<0.011	<0.0054	<0.011 UJ	<0.0054
	MW11-ROX-011712	1/17/2012		37.44	NE			0.000022 J J					0.000065 J J													
	MW11-ROX-043012	4/30/2012		38.66	NE	<0.0001	<0.0001	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0001	<0.0001	<0.0051	<0.01	<0.0051	<0.01	<0.0051
	MW11-ROX-072712	7/27/2012		38.90	NE	<0.00012	<0.00012	<0.00012	<0.000058	<0.00012	<0.000058	<0.00012 UJ	<0.00012	<0.012	<0.012	<0.0058	<0.00056 U	<0.0058	<0.012	<0.00012	<0.00012	<0.0023	<0.012	<0.0058	<0.012	<0.0058
	MW11-ROX-102512	10/25/2012		40.59	NE	<0.00011	<0.00011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.00042 U	<0.011	<0.0054
	MW11-ROX-011013	1/10/2013		41.43	NE	<0.0001 UJ	<0.0001 UJ	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.0001 UJ	<0.01 UJ	<0.01 UJ	<0.005 UJ	<0.002 UJ	<0.005 UJ	<0.01 UJ	<0.0001 UJ	<0.0001 UJ	<0.002 UJ	<0.01 UJ	<0.005 UJ	<0.01 UJ	<0.005 UJ
	MW11-ROX-040813	4/8/2013		42.02	NE	<0.00011	<0.00011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	MW11-ROX-070813	7/8/2013		39.24	NE	<0.00011	<0.00011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0052 U	<0.0054	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	MW11-ROX-100713	10/7/2013		39.95	NE	<0.00011	<0.00011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0011 U	<0.0055	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0011 U	<0.011	<0.0055 UJ
	MW11-ROX-011514	1/15/2014	41.66 - 51.66	42.16	NE	<0.00011	<0.00011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011	<0.0055
MW-12	MW12-ROX-051211	5/12/2011	41.92 - 51.92	37.58	NE	<0.0001 UJ	<0.0001 UJ	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.0001 UJ	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	0.000019 J J	<0.0001 UJ	<0.005	<0.01	<0.005	<0.01	<0.005
	MW12-ROX-072411	7/24/2011		35.55	NE	<0.0001	<0.0001	<0.0001	0.000072 B	0.00014 B	0.00014 B	0.000053 J	0.00019 B	<0.01 UJ	<0.01	<0.005	<0.002	<0.005	<0.01 UJ	0.000072 JB	0.000031 JB	<0.005	<0.01 UJ	<0.005	<0.01 UJ	<0.005 UJ
	MW-12-ROX-110211	11/2/2011		35.70	NE	<0.000095	<0.000095	<0.000095	<0.000048	<0.000095	<0.000048	<0.000095	<0.000095	<0.0095	<0.0095	<0.0048	<0.0019	<0.0048	<0.0095	<0.000095	<0.000095	<0.0048	<0.0095	<0.0048	<0.0095 UJ	<0.0048
	MW-12-ROX-110211-DUP	11/2/2011		35.70	NE	<0.000095	<0.000095	<0.000095	<0.000048	<0.000095	<0.000048	<0.000095	<0.000095	<0.0095	<0.0095	<0.0048	<0.0019	<0.0048	<0.0095	<0.000095	<0.000095	<0.0048	<0.0095	<0.0048	<0.0095 UJ	<0.0048
	MW12-ROX-011712	1/17/2012		37.70	NE	<0.00011	<0.00011	<0.00011	<0.000054	<0.00016 U	<0.00013 U	<0.00021 U	0.00013	<0.011 UJ	<0.011	<0.0054	<0.0022	<0.00029 U	<0.011	<0.00011	<0.00021 U	<0.0054	<0.011	<0.0054	<0.011	<0.0054
	MW12-ROX-011712-DUP	1/17/2012		37.70	NE	<0.00011	<0.00011	<0.00011	<0.000056	<0.000039 U	<0.00004 U	<0.000067 U	<0.00011	<0.011 UJ	<0.011	<0.0056	<0.0022	<0.00033 U	<0.011	<0.00011	<0.000051 U	<0.0056	<0.011	<0.0056	<0.011	<0.0056
	MW12-ROX-043012	4/30/2012		38.98	NE	<0.0001	<0.0001	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0001	<0.0001	<0.0051	<0.01	<0.0051	<0.01	<0.0051
	MW12-ROX-072712	7/27/2012		39.22	NE	<0.00011	<0.00011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011 UJ	<0.00011	<0.011	<0.011	<0.0053	<0.0019 U	0.00029 J	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	MW12-ROX-102512	10/25/2012		40.95	NE	<0.00011	<0.00011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.00077 U	<0.011	<0.0053
	MW12-ROX-011013	1/10/2013		41.83	NE	<0.0001	<0.0001	<0.0001	<0.000051	<0.0001	0.000026 J	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01	<0.0051 UJ
	MW12-ROX-040813	4/8/2013		42.46	NE	<0.0001	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
	MW12-ROX-070913	7/9/2013		39.28	NE	<0.00011	<0.00011	<0.00011	0.00012 J	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011	<0.0055
	MW12-ROX-100713	10/7/2013		40.22	NE	<0.00011	<0.00011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0055	<0.0022	<0.0055	<0.011 UJ	<0.00011	<0.00011	<0.0022	<0.011 UJ	<0.00062 U	<0.011 UJ	<0.0055 UJ
	MW12-ROX-011514	1/15/2014	41.92 - 51.92	42.54	NE	<0.0001	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	<0.0021	<0.0052	<0.01 UJ	<0.0001	<0.0001	<0.0021	<0.01 UJ	<0.0052	<0.01 UJ	<0.0052
MW-13	MW13-ROX-051311	5/13/2011	25.57 - 35.57	23.65	NE	<0.000099 UJ	0.000067 J J	0.000059 J J	0.000042 J J	0.000016 J J	<0.00005 UJ	<0.000099 UJ	<0.000099 UJ	<0.0099	<0.0099	<0.005	<0.0027 U	<0.005	<0.0099	0.000059 J J	<0.000099 UJ	<0.005	<0.0099	<0.00086 U	<0.0099	<0.005
	MW13-ROX-080311	8/3/2011		21.67	NE	<0.0001	<0.0001	0.00011	0.000037 J	0.000039 J	0.000037 J	0.000053 J	0.000036 J	<0.01 UJ	<0.01	<0.005	<0.002	<0.005	<0.01	0.000036 J	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005
	MW13-ROX-110311	11/3/2011		22.85	NE	<0.00011	<0.00011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.00011	<0.00011	<0.0056	<0.011	<0.0056	<0.011 UJ	<0.0056
	MW13-ROX-012012	1/20/2012		24.77	NE	<0.00011	0.00014	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	0.0087 J J	<0.011	<0.0053	<0.0007 U	<0.0007 U	<0.011	<0.00011	<0.00011	<0.0053	<0.011	<0.0053	<0.011	<0.0053
	MW13-ROX-050712	5/7/2012		25.79	NE	<0.0001	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	<0.01	<0.0052
	MW13-ROX-080812	8/8/2012		26.67	NE	0.0001 J	0.00019	0.000063 J	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	MW13-ROX-110812	11/8/2012		25.30	NE	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005
	MW13-ROX-012313	1/23/2013		29.26	NE	<0.00011	<0.00011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0055 UJ	<0.011	<0.0055 UJ
	MW13-ROX-041213	4/12/2013		29.44	NE	<0.0001	<0.0001	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01	<0.0051
	MW13-ROX-071213	7/12/2013		25.67	NE	<0.00011	<0.000063 U	<0.000058 U	<0.00014 U	<0.00011	<0.000054	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0054	0.00079 J	<0.0054	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054 UJ
	MW13-ROX-100913	10/9/2013		26.94	NE	0.000098 J	0.000071 J	<0.0001	0.000022 J	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.00068 J	<0.0052	<0.01	0.000034 J	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
	MW13-ROX-012914	1/29/2014	25.57 - 35.57	29.63	NE	<0.00011	<0.00011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011	<0.0055
MW-14	MW14-ROX-110911	11/9/2011	33.42 - 43.42			<0.00011	<0.00011 UJ	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	<0.0053	<0.011	<0.0053	<0.011	<0.0053
	MW14-ROX-051012	5/10/2012		NM	NE	0.00046	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.00042 U	<0.0052	<0.01	<0.0001	<0.0001	<0.0052	0.00084 J	<0.0052	<0.01	<0.0052
	MW14-ROX-080312	8/3/2012		NM	NE	0.00095	0.00015	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	0.00049 J	<0.0053	<0.011	<0.00011	<0.00011	0.00076 J	0.00096 J	<0.0053	<0.011	<0.0053
	MW14-ROX-103112	10/31/2012		32.02	NE	0.00074	0.00008 J	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	0.0003 J	<0.01	<0.005	<0.01 UJ	<0.005
	MW14-ROX-011813	1/18/2013		33.05	NE	0.00092	0.00013	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005 UJ
	MW14-ROX-041113	4/11/2013		33.31	NE	0.00068	0.000098 J	<0.00011	0.00013	<0.00011	0.000054	0.000053 J	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	MW14-ROX-071213	7/12/2013		30.36	NE	0.00046 B	<0.000062 U	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	0.00066 J	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053 UJ
	MW14-ROX-101013	10/10/2013		30.80	NE	0.00065	0.00011	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0057	<0.0023	<0.0057	<0.011	<0.00011	<0.00011	0.00019 J	<0.011	<0.0057	<0.011	<0.0057
	MW14-ROX-012914	1/29/2014	33.42 - 43.42	33.67	NE	0.00062	0.00012	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.00056 J	<0.0054	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
MW-16	MW16-ROX-012313	1/23/2013	37.06 - 47.06	43.05	NE	<0.00011	<0.00011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.0053 UJ	<0.011	<0.0053 UJ
	MW16-ROX-040813	4/8/2013		43.39	NE	<0.0001	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
	MW16-ROX-070813	7/8/2013		40.62	NE	<0.00011	<0.00011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
	MW16-ROX-100813	10/8/2013		41.62	NE	<0.0001 UJ	<0.0001 UJ	<0.0001 UJ	<0.000052 UJ	<0.0001 UJ	<0.000052 UJ	<0.0001 UJ	<0.0001 UJ	<0.01 UJ	<0.01 UJ	<0.0052 UJ	<0.0021 UJ	<0.0052 UJ	<0.01 UJ	<0.0001 UJ	<0.0001 UJ	<0.0021 UJ	<0.01 UJ	<0.0052 UJ	<0.01 UJ	<0.0052 UJ
	MW16-ROX-011514	1/15/2014	37.06 - 47.06	43.76	NE	<0.0001	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.00061 J	<0.0052	<0.01	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						SVOCs																		
						Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic Acid	Benzyl alcohol	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl)phthalate	Butyl benzyl phthalate	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol	Dimethyl phthalate
				Screening Values (mg/L)		0.42 [1]	0.21 [3]	2.1 [1]	0.00013 [1]	0.0002 [1]	0.00018 [1]	0.21 [3]	0.00017 [1]	28 [1]	0.7 [3]	0.01 [2]	0.006 [2]	1.4 [2]		0.0015 [2]	0.0003 [1]	0.007 [3]	0.021 [2]	5.6 [1]	0.14 [2]	
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
MW-22	MW22-ROX-012313	1/23/2013	37.88 - 47.88	41.80	NE	0.00018	<0.0001	0.00002 J	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	0.0031 J	<0.0052	<0.0021	<0.0052	<0.01	<0.0001	<0.0001	<0.0021	<0.01	<0.0052 UJ	0.0146	<0.0052 UJ
	MW22-ROX-012313-DUP	1/23/2013		41.80	NE	0.00018	<0.00011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	0.0033 J	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.0053 UJ	0.0149	<0.0053 UJ
	MW22-ROX-040513	4/5/2013		42.23	NE	0.00018	0.000049 J J	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	0.0269	<0.0053
	MW22-ROX-071113	7/11/2013		39.35	NE	0.00026	0.00048	0.000035 J	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0054	0.0017 J	<0.0054	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	0.104	<0.0054
	MW22-ROX-071113-DUP	7/11/2013		39.35	NE	0.00018	0.00047	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0056	0.0021 J	<0.0056	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	0.0978	<0.0056
	MW22-ROX-100913	10/9/2013		40.39	NE	0.00019	<0.00011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	0.0863	<0.0054
	MW22-ROX-100913-DUP	10/9/2013		40.39	NE	0.00018	<0.00011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	0.0826	<0.0054
	MW22-ROX-012014	1/20/2014	37.88 - 47.88	42.49	NE	0.00015	<0.00011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.053	<0.053	<0.027	<0.011	<0.027	<0.053	<0.00011	<0.00011	<0.011	<0.053	<0.027	0.0399 J	<0.027
	MW22-ROX-012014-DUP	1/20/2014		42.49	NE	0.00014	<0.00011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.054	<0.054	<0.027	<0.011	<0.027	<0.054	<0.00011	<0.00011	<0.011	<0.054	<0.027	0.0364 J	<0.027
MW-24	MW24-ROX-040513	4/5/2013	38.89 - 48.89	43.39	NE	<0.0001	<0.0001 UJ	<0.0001	<0.000052	<0.0001	0.000057	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
	MW24-ROX-071113	7/11/2013		40.35	NE	0.000024 J	<0.00011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0054	<0.0022	<0.0054	<0.011 UJ	<0.00011	<0.00011	<0.0022	<0.011 UJ	<0.0054	<0.011 UJ	<0.0054
	MW24-ROX-100913	10/9/2013		41.27	NE	<0.00011	<0.00011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	MW24-ROX-011514	1/15/2014	38.89 - 48.89	43.47	NE	<0.00011	<0.00011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
P-54	P54-ROX-051111	5/11/2011	38.00 - 63.00	37.37	NE	<0.00011 UJ	<0.00011 UJ	<0.00011 UJ	<0.000054 UJ	0.0001 J J	<0.000054 UJ	<0.00011 UJ	<0.00011 UJ	<0.01	<0.01	<0.005	<0.0024 U	<0.005 UJ	<0.01	0.000019 J J	<0.00011 UJ	<0.005	<0.01	<0.005 UJ	<0.01	<0.005 UJ
	P54-ROX-072411	7/24/2011		35.38	NE	<0.0001	<0.0001	<0.0001	0.000079 B	0.00014 B	0.00015 B	0.000053 J	0.00017 B	<0.01 UJ	<0.01	<0.005	<0.002	<0.005	<0.01	0.000081 JB	0.00002 JB	<0.005	<0.01	<0.005	<0.01	<0.005 UJ
	P54-ROX-110311	11/3/2011		35.49	NE	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005
	P54-ROX-011712	1/17/2012		37.17	NE	<0.0001	<0.0001	<0.0001	<0.000052	<0.000024 U	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	<0.01	<0.0052
	P54-ROX-050412	5/4/2012		38.77	NE	<0.0001	<0.0001	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	0.0045 J	<0.01	<0.0051	0.0133	<0.0051	<0.01	<0.0001	<0.0001	<0.0051	<0.01	<0.0051	<0.01	<0.0051
	P54-ROX-080212	8/2/2012		38.95	NE	<0.00011	<0.00011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	P54-ROX-103012	10/30/2012		40.70	NE	<0.0001	<0.0001	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01	<0.0051
	P54-ROX-011113	1/11/2013		41.56	NE	<0.00011	<0.00011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053 UJ
	P54-ROX-041013	4/10/2013		41.80	NE	<0.00011	<0.00011	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.011	<0.011	<0.0057	<0.0023	<0.0057	<0.011	<0.00011	<0.00011	<0.0023	<0.011	<0.0057	<0.011	<0.0057 UJ
	P54-ROX-050313	5/3/2013		41.80	NE	<0.00011	<0.00011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
	P54-ROX-071113	7/11/2013		39.07	NE	0.000032 J	0.000016 J	0.000018 J	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	0.00052 J	<0.0052	<0.01	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
	P54-ROX-100813	10/8/2013		39.94	NE	<0.00011	<0.00011	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.011	<0.011	<0.0057	<0.0023	<0.0057	<0.011	<0.00011	<0.00011	<0.0023	<0.011	<0.0057	<0.011	<0.0057
	P54-ROX-011514	1/15/2014	38.00 - 63.00	42.20	NE	<0.00011	<0.00011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.00058 J	<0.0054	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
P-55	P55-ROX-103111	10/31/2011	39.82 - 64.82	39.15	NE	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	0.0022	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005
	P55-ROX-011912	1/19/2012		41.09	NE	0.00017	<0.0001	<0.0001	<0.000052	0.000022 J	<0.000052	<0.0001	<0.0001		<0.01 UJ	<0.0052	<0.0021	<0.00048 U	<0.01	<0.0001	<0.0001	0.00035 J	<0.01	<0.0052	<0.01	<0.0052
	P55-ROX-011912-D	1/19/2012		41.09	NE	0.00015	<0.00011	<0.00011	<0.000054	0.000067 J	0.000061	0.00011	0.000071 J		<0.011 UJ	<0.0054	<0.0022	<0.00035 U	<0.011	<0.00011	0.000086 J	0.00033 J	<0.011	<0.0054	<0.011	<0.0054
	P55-ROX-050912	5/9/2012		42.44	NE	0.00036	0.000095 J	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0001	<0.0001	<0.0051	<0.01	<0.0051	<0.01	<0.0051
	P55-ROX-012113	1/21/2013	40.43 - 50.43	43.60	NE	0.00069	0.00019	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.05	<0.02	<0.01	<0.006	<0.01	<0.02	<0.0001	<0.0001	0.001 J	<0.01	<0.01	0.004 J	<0.01
	P55-ROX-012113	1/21/2013		43.60	NE	0.00054	0.00014	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0001	<0.0001	0.001 J	<0.01	0.00073 J	0.0024 J	<0.0051
	P55-ROX-041513	4/15/2013		43.63	NE	0.00073	0.00021	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001 UJ	<0.0001 UJ	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0001	<0.0001	0.0017 J	<0.01	<0.0052	<0.01	<0.0052
	P55-ROX-071613	7/16/2013		40.06	NE	0.00066	0.0002	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056 UJ	<0.00066 U	<0.0056	<0.011	<0.00011	<0.00011	0.0016 J	<0.011	<0.0056	0.0024 J	<0.0056
	P55-ROX-101013	10/10/2013		41.67	NE	0.00071	0.00019	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0055	0.0006 J	<0.0055	<0.011	<0.00011	<0.00011	0.0016 J	<0.011	<0.0055	0.0014 J	<0.0055
P-56	P56-ROX-102711	10/27/2011	40.82 - 65.82	39.42	NE	0.0007	0.00013	0.00013	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.0026	<0.0052	<0.01	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	<0.01	<0.0052
	P56-ROX-011912	1/19/2012		41.81	NE	0.00064	<0.0001	0.00011	<0.000051	0.000021 J	<0.000051	<0.0001	<0.0001		<0.01 UJ	<0.0051	<0.00066 U	<0.00053 U	<0.01	<0.0001	<0.0001	0.00064 J	<0.01	<0.0051	<0.01	<0.0051
	P56-ROX-050812	5/8/2012		43.09	NE	0.00057	0.0001	<0.0001	<0.00011 U	<0.00012 U	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	<0.01	<0.0052
	P56-ROX-080612	8/6/2012		43.60	NE	0.00058	0.000087 J	0.00013	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0001	<0.0001	0.00051 J	<0.01	<0.0014 U	<0.01	<0.0051
	P56-ROX-103112	10/31/2012		44.80	NE	0.0011	<0.0001	0.00012	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0001	<0.0001	0.00066 J	<0.01	<0.0051	<0.01 UJ	<0.0051
	P56-ROX-011713	1/17/2013		45.65	NE	0.00039	0.000083 J	0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	0.0044	<0.005	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005
	P56-ROX-041213	4/12/2013		46.12	NE	0.00053	0.000088 J	0.0001 J	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011	<0.0055
	P56-ROX-071513	7/15/2013		43.25	NE	0.00065	0.00013	0.00014	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055 UJ	<0.0022	<0.0055	<0.011	<0.00011	<0.00011	0.00075 J	<0.011	<0.0055	0.0086 J	<0.0055
	P56-ROX-101013	10/10/2013		44.48	NE	0.0006	0.000092 J	0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.00011	<0.00011	0.00059 J	<0.011	<0.0055	0.0042 J	<0.0055
	P56-ROX-012214	1/22/2014	40.82 - 65.82	46.35	NE	0.00055	<0.0001	0.00013	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0001	<0.0001	0.00047 J	<0.01	<0.0052	<0.01	<0.0052
P-57	P57-ROX-110811	11/8/2011	40.46 - 65.46	39.20	NE	0.00055	<0.00054	<0.00054	<0.00027	<0.00054	<0.00027	<0.00054	<0.00054	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.00054	<0.00054	<0.0054	<0.011	<0.0054	<0.011	<0.0054
	P57-ROX-021312	2/13/2012		42.13	NE	0.00056	<0.0001	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	0.00043 J	<0.00043 U	<0.01	<0.0001	<0.0001	0.00087 J	<0.01	<0.0051	0.0045 J	<0.0051
	P57-ROX-050712	5/7/2012		42.92	NE	0.00033	<0.0001	<0.0001	0.00011	0.00012	<0.000052	<0.0001	<0.0001	<0.01	<0.01	0.0008 J	<0.0021	<0.0052	<0.01	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	<0.01	<0.0052
	P57-ROX-080612	8/6/2012		43.53	NE	0.00056	0.0001	0.000073 J	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	0.00079 J	<0.01	<0.00096 U	0.0029 J	<0.005
	P57-ROX-080612-DUP	8/6/2012		43.53	NE	0.00051	0.0001	0.000064 J	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	0.00073 J	<0.01	<0.001 U	0.0029 J	<0.005
	P57-ROX-110512	11/5/2012		44.98	NE	0.00053	<0.0001	0.000061 J	<0.00005	<0.0001	<0.00005	0.00005 J	<0.0001	<0.01 UJ	<0.01	<0.005	0.00052 J	<0.005	<0.01	<0.0001	0.000049 J	0.0006 J	<0.01	<0.005	<0.01 UJ	<0.005
	P57-ROX-012913	1/29/2013		45.92	NE	0.00061	0.00013	0.000076 J	<0.000059	<0.00012	<0.000059	<0.00012	<0.00012	<0.012	<0.012	<0.0059	<0.0024	<0.0059	<0.012	<0.00012	<0.00012	<0.0024	<0.012	<0.0059	0.0023 J J	<0.0059
	P57-ROX-041113	4/11/2013		46.29	NE	0.00063	0.00012	0.000073 J	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01	<0.0051
	P57-ROX-071613	7/16/2013		43.38	NE	0.00047	0.0001 J	0.000077 J	0.00012	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056 UJ	<0.0022	<0.0056	<0.011	<0.00011	<0.00011	0.00088 J	<0.011	<0.0056	0.002 J	<0.0056
	P57-ROX-101413	10/14/2013		44.38	NE	0.00045	0.000071 J	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.0012 J	<0.0054	<0.011	<0.00011	<0.00011	0.00082 J	<0.011	<0.0054	0.0029 J	<0.0054
	P57-ROX-020314	2/3/2014	40.46 - 65.46	46.57	NE	0.00041	0.000075 J	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	0.00067 J	<0.011	<0.0053	<0.011	<0.0053

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						SVOCs																		
						Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic Acid	Benzyl alcohol	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl)phthalate	Butyl benzyl phthalate	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol	Dimethyl phthalate
					Screening Values (mg/L)	0.42 [1]	0.21 [3]	2.1 [1]	0.00013 [1]	0.0002 [1]	0.00018 [1]	0.21 [3]	0.00017 [1]	28 [1]	0.7 [3]	0.01 [2]	0.006 [2]	1.4 [2]		0.0015 [2]	0.0003 [1]	0.007 [3]	0.021 [2]	5.6 [1]	0.14 [2]	
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
P-58	P58-ROX-102811	10/28/2011	40.21 - 65.21	37.31	NE	0.0011	<0.000097	<0.000097	<0.000049	<0.000097	<0.000049	<0.000097	<0.000097	<0.0097	<0.0097	<0.0049	0.003	<0.0049	<0.0097	<0.000097	<0.000097	<0.0049	<0.0097	<0.0049	<0.0097	<0.0049
	P58-ROX-011912	1/19/2012		39.73	NE	0.001	<0.00011	<0.00011	0.000039 J	0.000051 J	0.000032 J	0.000047 J	<0.00011		<0.011 UJ	<0.0053	0.0361 J	<0.00059 U	<0.011	<0.00011	<0.00011	0.0026 J	<0.011	<0.0053	<0.011	<0.0053
	P58-ROX-011912-D	1/19/2012		39.73	NE	0.00092	<0.00011	<0.00011	0.000036 J	0.000036 J	<0.000053	<0.00011	<0.00011		<0.011 UJ	<0.0053	0.024 J	<0.0053	<0.011	<0.00011	<0.00011	0.0023 J	<0.011	<0.0053	<0.011	<0.0053
	P58-ROX-050712	5/7/2012		40.90	NE	0.00059	0.00019	0.00057 J	0.00017	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0001	<0.0001	0.0017 J	<0.01	<0.0051	<0.01	<0.0051
	P58-ROX-050712-DUP	5/7/2012		40.90	NE	0.00044	0.00015	<0.0001 UJ	0.00015	0.000032 J	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	<0.01	<0.0052
	P58-ROX-080612	8/6/2012		41.63	NE	0.00086	0.00029	0.000094 J	0.00024	0.00011	0.000064	0.000043 J	<0.0001	<0.01	<0.01	<0.005	0.00043 J	<0.005	<0.01	0.0001	<0.0001	0.0022	<0.01	<0.005	<0.01	<0.005
	P58-ROX-080612-DUP	8/6/2012		41.63	NE	0.00098	0.0003	0.00011	0.00021	0.000098 J	0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	0.00042 J	<0.005	<0.01	0.000099 J	<0.0001	0.0025	<0.01	<0.005	<0.01	<0.005
	P58-ROX-110612	11/6/2012		43.09	NE																					
	P58-ROX-121012	12/10/2012		43.09	NE	0.00093	0.00024	0.00083	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.0103	<0.0054	<0.011	<0.00011	<0.00011	0.002 J	<0.011	<0.0054	<0.011	<0.0054 UJ
	P58-ROX-012213	1/22/2013		44.21	NE	0.0011	0.0006	<0.00011	0.00038	0.00022	0.00012	0.00012	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	0.00039	0.000068 J	0.0038	<0.011	<0.0054	<0.011	<0.0054
	P58-ROX-041113	4/11/2013		44.40	NE	0.0015	0.0005	<0.00011	0.0003	0.00019	0.000095	0.000074 J	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	0.00032	<0.00011	0.0044	<0.011	<0.0054	<0.011	<0.0054
	P58-ROX-071613	7/16/2013		41.49	NE	0.00076	0.00027	0.000096 J	0.00018	0.000073 J	0.000045 J	<0.00011	<0.00011	<0.011	<0.011	<0.0055 UJ	<0.0022	<0.0055	<0.011	0.00012	<0.00011	0.0025	<0.011	<0.0055	<0.011	<0.0055
	P58-ROX-101413	10/14/2013		42.19	NE	0.00084	<0.00011	<0.00011	<0.000054	0.000067 J	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.0099	<0.0054	<0.011	0.000099 J	<0.00011	0.0024	<0.011	<0.0054	0.0016 J	<0.0054
	P58-ROX-020314	2/3/2014	40.21 - 65.21	44.66	NE	0.00061	0.00018	<0.0001	0.000035 J	0.000047 J	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	<0.0021	<0.0052	<0.01	0.000079 J	<0.0001	0.0016 J	<0.01	<0.0052	<0.01	<0.0052
P-59	P59-ROX-102711	10/27/2011	47.91 - 72.91	41.06	NE	0.00077	0.00012	0.00046	0.00019	<0.00011	0.000073	<0.00011	<0.00011	<0.011	<0.011	<0.0053	0.0028	<0.0053	<0.011	0.00034	<0.00011	<0.0053	<0.011	<0.0053	<0.011	<0.0053
	P59-ROX-011912	1/19/2012		42.88	NE	0.00036	<0.00011	0.00025	0.000055 J	0.000038 J	0.000037 J	0.000052 J	<0.00011		0.0011 J	<0.0057	<0.00079 U	<0.0011 U	<0.011	0.000085 J	<0.00011	<0.0057	<0.011	<0.0057	0.0133	<0.0057
	P59-ROX-011912-DUP	1/19/2012		42.88	NE	0.00037	<0.0001	0.00015	0.00005 J	0.000029 J	0.000027 J	<0.0001	<0.0001		0.00091 J	<0.0051	<0.002	<0.00061 U	<0.01	0.000074 J	<0.0001	0.00042 J	<0.01	<0.0051	0.0108	<0.0051
	P59-ROX-050912	5/9/2012		44.11	NE	0.00022	<0.0001	0.000095 J	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	0.0161	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.005	0.0085 J	<0.005
	P59-ROX-080212	8/2/2012		44.07	NE	0.00042	0.0001 J	0.00014	0.00021	0.000036 J	0.000047 J	<0.0001	<0.0001	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	0.00036 J	<0.011	<0.0053	0.0088 J	<0.0053
	P59-ROX-110212	11/2/2012		45.98	NE	0.00043	<0.00011	0.000086 J	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	0.00031 J	<0.011	<0.0053	0.0102 J J	<0.0053
	P59-ROX-110212-DUP	11/2/2012		45.98	NE	0.00042	<0.0001	0.000084 J	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0001	<0.0001	0.00029 J	<0.01	<0.0052	0.0092 J J	<0.0052
	P59-ROX-013013	1/30/2013		46.60	NE	0.00047	<0.0001	0.00012	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.0041	<0.0052	<0.01	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	0.0581	<0.0052 UJ
	P59-ROX-041213	4/12/2013		46.95	NE	0.00057	0.00013	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	0.0831 J	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	0.0919	<0.0054
	P59-ROX-041213-DUP	4/12/2013		46.95	NE	0.00058	0.00012	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	0.0518 J	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	0.0914	<0.0053
	P59-ROX-071613	7/16/2013		44.13	NE	0.00035	0.000071 J	0.000092 J	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054 UJ	<0.0022	<0.0054	<0.011	<0.00011	<0.00011	0.00041 J	<0.011	<0.0054	0.0583	<0.0054
	P59-ROX-101013	10/10/2013		45.50	NE	0.00055	0.000084 J	0.00021	0.000068	<0.00011	0.000039 J	<0.00011	<0.00011	<0.011 UJ	0.0009 J	<0.0054	0.00069 J	<0.0054	<0.011	0.000088 J	<0.00011	<0.0022	<0.011	<0.0054	0.078	<0.0054
	P59-ROX-020314	2/3/2014	47.91 - 72.91	47.35	NE	0.00046	<0.0001	0.00018	0.000035 J	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	<0.0021	<0.0052	<0.01	0.000046 J	<0.0001	<0.0021	<0.01	<0.0052	0.147 J	<0.0052
P-66	P66-ROX-110111	11/1/2011	34.72 - 59.72	28.92	NE	0.0018	<0.0001	<0.0001	<0.000095 U	<0.0001	<0.000088 U	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.00011 U	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005
	P66-ROX-051012	5/10/2012		32.48	NE	0.00078	<0.0001	<0.0001	<0.00005	<0.0001	0.000024 J	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.00053 U	<0.005	<0.01	<0.0001	<0.0001	0.0018 J	<0.01	<0.005	<0.01	<0.005
	P66-ROX-080312	8/3/2012		30.51	NE	0.00073	0.00025	<0.00011	0.00018	0.000066 J	0.00008	0.000066 J	<0.00011	<0.011	<0.011	<0.0053	0.00075 J	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	P66-ROX-103112	10/31/2012		34.75	NE	0.00078	0.00022	0.0006	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	0.0019 J	<0.01	<0.005	<0.01 UJ	<0.005
	P66-ROX-011813	1/18/2013		35.70	NE	0.00074	0.00034	<0.000055 U	<0.000053	<0.00011	<0.000028 U	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	0.0018 J	<0.011	<0.0053	<0.011	<0.0053 UJ
	P66-ROX-041113	4/11/2013		36.03	NE	0.0011	0.00028	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	0.0025	<0.011	<0.0053	<0.011	<0.0053
	P66-ROX-071213	7/12/2013		33.20	NE	0.00087	<0.00011	<0.0002 U	0.00018 B	<0.00015 U	0.00017 B	<0.00019 U	0.00015	<0.011 UJ	<0.011	<0.0056	0.0124	<0.0056	<0.011	0.00017	0.00017	0.0016 J	<0.011	<0.0056	<0.011	<0.0056 UJ
	P66-ROX-101013	10/10/2013		33.66	NE	0.00066	0.0002	<0.00011	0.000028 J	<0.00011	<0.000056	0.000036 J	<0.00011	<0.011 UJ	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.00011	<0.00011	0.0016 J	<0.011	<0.0056	<0.011	<0.0056
	P66-ROX-110713	11/7/2013		33.66	NE																					
	P66-ROX-012914	1/29/2014	34.72 - 59.72	36.39	NE	0.00099	0.00032	<0.00011	0.000039 J	0.000044 J	0.000048 J	0.000052 J	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	0.000047 J	0.000035 J	0.0019 J	<0.011	<0.0053	<0.011	<0.0053
P-74	P74-ROX-103111	10/31/2011	44.43 - 69.43	36.26	NE	0.00033	0.00012	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005
	P74-ROX-011912	1/19/2012		38.77	NE	<0.000095	<0.000095	<0.000095	<0.000048	<0.000095	<0.000048	<0.000095	<0.000095		<0.0095 UJ	<0.0048	<0.0019	<0.00043 U	<0.0095	<0.000095	<0.000095	<0.0048	<0.0095	<0.0048	<0.0095	<0.0048
	P74-ROX-050712	5/7/2012		39.92	NE	<0.0001	<0.0001	<0.0001	0.00012	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	<0.01	<0.0052
	P74-ROX-080612	8/6/2012		40.71	NE	0.00016	0.000056 J	0.000041 J	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.0012 U	0.0039 J	<0.005
	P74-ROX-110112	11/1/2012		41.72	NE	0.00023	<0.0001	0.000044 J	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	0.00044 J	<0.0052	<0.01	<0.0001	<0.0001	0.00031 J	0.001 J	<0.0052	0.008 J J	<0.0052
	P74-ROX-011713	1/17/2013		42.65	NE	0.00019	0.0001	0.000063 J	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	0.0028 J	<0.0051	<0.002	<0.0051	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.0051	0.0021 J	<0.0051
	P74-ROX-041113	4/11/2013		42.83	NE	<0.0001	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
	P74-ROX-071513	7/15/2013		40.11	NE	<0.000063 U	<0.00011	0.000032 J	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	P74-ROX-101413	10/14/2013		41.72	NE	0.0002	<0.00011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.00097 J	<0.0054	<0.011	<0.00011	<0.00011	0.00033 J	0.0012 J	<0.0054	0.0019 J	<0.0054
	P74-ROX-012414	1/24/2014	44.43 - 69.43	43.35	NE	0.00023	<0.0001	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	0.00063 J	0.00097 J	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01	<0.0051

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						SVOCs																		
						Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic Acid	Benzyl alcohol	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl)phthalate	Butyl benzyl phthalate	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol	Dimethyl phthalate
			Screening Values (mg/L)			0.42 [1]	0.21 [3]	2.1 [1]	0.00013 [1]	0.0002 [1]	0.00018 [1]	0.21 [3]	0.00017 [1]	28 [1]	0.7 [3]	0.01 [2]	0.006 [2]	1.4 [2]		0.0015 [2]	0.0003 [1]	0.007 [3]	0.021 [2]	5.6 [1]	0.14 [2]	
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
P-93A	P93A-ROX-050511	5/5/2011	48.17 - 63.17	41.88	NE	0.00026 J	<0.0001 UJ	0.000035 J J	<0.00005 UJ	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.0001 UJ	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001 UJ	<0.0001 UJ	0.00035 J	<0.01	<0.00073 U	<0.01	<0.005
	P93A-ROX-081811	8/18/2011		39.40	NE	0.00036	<0.0001	0.000058 J	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	0.003	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.0029 U	<0.01	<0.005
	P93A-ROX-102611	10/26/2011		39.43	NE	0.00024	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	0.0075	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005
	P93A-ROX-012012	1/20/2012		41.66	NE	0.00014	<0.000095	0.000032 J	<0.000048	<0.000095	<0.000048	<0.000095	<0.000095	<0.0095 UJ	<0.0095	<0.0048	<0.006 U	<0.00053 U	<0.0095	<0.000095	<0.000095	<0.0048	<0.0095	<0.0048	<0.0095	<0.0048
	P93A-ROX-050812	5/8/2012		42.75	NE	<0.0001	<0.0001	<0.0001	<0.0001 U	<0.00012 U	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	0.0029	<0.0051	<0.01	<0.0001	<0.0001	<0.0051	<0.01	<0.0051	<0.01	<0.0051
	P93A-ROX-080912	8/9/2012		43.66	NE	0.00015	<0.00011	0.000048 J	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	0.0032 J	<0.011	<0.0054	0.0153	<0.0054	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	P93A-ROX-110712	11/7/2012		45.00	NE	<0.00022 U	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.0026	<0.0052	<0.01	<0.0001	<0.0001	0.00027 J	<0.01	<0.0052	<0.01	<0.0052
	P93A-ROX-110712-DUP	11/7/2012		45.00	NE	0.00029 B	<0.0001	0.000061 J	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.0023	<0.0052	<0.01	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
	P93A-ROX-012313	1/23/2013		45.89	NE	0.00016	<0.0001	0.000028 J	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.0099	<0.0052	<0.01	<0.0001	<0.0001	<0.0021	<0.01	<0.0052 UJ	<0.01	<0.0052 UJ
	P93A-ROX-012313-DUP	1/23/2013		45.89	NE	0.00014	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.011	<0.0052	<0.01	<0.0001	<0.0001	<0.0021	<0.01	<0.0052 UJ	<0.01	<0.0052 UJ
	P93A-ROX-041113	4/11/2013		46.29	NE	0.00023	<0.0001	0.000074 J	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005
	P93A-ROX-041113-DUP	4/11/2013		46.29	NE	0.00021	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005
	P93A-ROX-071813	7/18/2013		43.25	NE	<0.00011	0.000032 J	0.00003 J	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.00011	<0.00011	0.00024 J	<0.011	<0.0056	<0.011	<0.0056
	P93A-ROX-101113	10/11/2013		44.18	NE	0.00017	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005
	P93A-ROX-012914	1/29/2014	48.17 - 63.17	46.53	NE	0.00022	<0.00011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
P-93B	P93B-ROX-050511	5/5/2011	74.60 - 76.60	41.96	NE	<0.0001 UJ	<0.0001 UJ	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.0001 UJ	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001 UJ	<0.0001 UJ	<0.005	<0.01	<0.005	<0.01	<0.005
	P93B-ROX-081811	8/18/2011		39.44	NE	<0.0001	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.001 J	<0.0052	<0.01	<0.0001	<0.0001	<0.0052	<0.01	<0.0021 U	<0.01	<0.0052
	P93B-ROX-102611	10/26/2011		39.48	NE	<0.0001	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.0103	<0.0052	<0.01	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	<0.01	<0.0052
	P93B-ROX-012012	1/20/2012		41.72	NE	<0.000095	0.000028 J	<0.000095	<0.000048	<0.000095	<0.000048	<0.000095	<0.000095	<0.0095 UJ	<0.0095	<0.0048	<0.0033 U	<0.00033 U	<0.0095	<0.000095	<0.000095	<0.0048	<0.0095	<0.0048	<0.0095	<0.0048
	P93B-ROX-050812	5/8/2012		42.79	NE	<0.0001	<0.0001	<0.0001	<0.000051	<0.00012 U	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0001	<0.0001	<0.0051	<0.01	<0.0051	<0.01	<0.0051
	P93B-ROX-080912	8/9/2012		43.69	NE	<0.00011	0.000087 J	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.0036	<0.0054	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.00051 U	<0.011	<0.0054
	P93B-ROX-110712	11/7/2012		45.05	NE	<0.0001	0.000073 JB	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	0.0017 J	<0.0051	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01	<0.0051
	P93B-ROX-110712-DUP	11/7/2012		45.05	NE	<0.000047 U	0.000058 J	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	0.00057 J	<0.005	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005
	P93B-ROX-012313	1/23/2013		45.89	NE	0.00014	0.000072 J	0.00013	0.00022	0.00011	0.00013	0.00012	0.00012	<0.011	<0.011	<0.0053	0.0055	0.0032 J	0.0013 J	0.00012	0.00012	<0.0021	<0.011	<0.0053 UJ	0.0021 J	0.00024 J J
	P93B-ROX-041113	4/11/2013		46.32	NE	<0.0001	<0.0001	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01	<0.0051
	P93B-ROX-071813	7/18/2013		43.30	NE	<0.00011	<0.00011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
	P93B-ROX-101613	10/16/2013		44.43	NE	<0.0001	0.000065 J	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005
	P93B-ROX-101613-DUP	10/16/2013		44.43	NE	<0.0001	0.000091 J	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01	<0.0051
	P93B-ROX-012814	1/28/2014	74.60 - 76.60	46.58	NE	<0.00011	<0.00011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	0.00072 J	<0.0055	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011	<0.0055
	P93B-ROX-012814-DUP	1/28/2014		46.58	NE	<0.0001	<0.0001	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	0.0012 J	<0.0051	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01	<0.0051
P-93C	P93C-ROX-050611	5/6/2011	94.26 - 96.26	41.84	NE	<0.0001 UJ	0.000041 J J	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.0001 UJ	<0.01	<0.01	<0.005	<0.0022 U	<0.005	<0.01	<0.0001 UJ	<0.0001 UJ	<0.005	<0.01	<0.005	<0.01	<0.005
	P93C-ROX-081811	8/18/2011		39.32	NE	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	0.0092	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.0015 U	<0.01	<0.005
	P93C-ROX-102611	10/26/2011		39.36	NE	<0.0001	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	<0.01	<0.0052
	P93C-ROX-012012	1/20/2012		41.57	NE	<0.0001	<0.0001	<0.0001	<0.000051	0.000019 J	0.000027 J	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0051	<0.0096 U	<0.00037 U	<0.01	<0.0001	<0.0001	<0.0051	<0.01	<0.0051	<0.01	<0.0051
	P93C-ROX-050812	5/8/2012		42.68	NE	<0.00011	<0.00011	<0.00011	<0.00012 U	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	0.008	<0.0053	<0.011	<0.00011	<0.00011	<0.0053	<0.011	<0.0053	<0.011	<0.0053
	P93C-ROX-080912	8/9/2012		43.57	NE	0.000089 J	0.000022 J	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.0043	<0.0052	<0.01	<0.0001	<0.0001	<0.0021	<0.01	<0.00046 U	<0.01	<0.0052
	P93C-ROX-110812	11/8/2012		45.12	NE	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	0.00081 J	<0.005	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005
	P93C-ROX-012313	1/23/2013		45.78	NE	<0.00011	<0.00011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	0.0049	<0.0055	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0055 UJ	<0.011	<0.0055 UJ
	P93C-ROX-041213	4/12/2013		46.21	NE	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005 UJ
	P93C-ROX-071813	7/18/2013		43.31	NE	<0.000045 U	<0.00011	0.000021 J	<0.000056	0.00015	<0.000056	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
	P93C-ROX-080813	8/8/2013		43.31	NE																					
	P93C-ROX-101613	10/16/2013		44.31	NE	<0.0001	<0.0001	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01	<0.0051
	P93C-ROX-012414	1/24/2014	94.26 - 96.26	46.44	NE	<0.0001	<0.0001	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01	<0.0051
P-93D	P93D-ROX-050511	5/5/2011	125.75 - 127.75	41.96	NE	<0.0001 UJ	<0.0001 UJ	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.0001 UJ	<0.01	<0.01	<0.005	<0.0027 U	<0.005	<0.01	<0.0001 UJ	<0.0001 UJ	<0.005	<0.01	<0.005	<0.01	<0.005
	P93D-ROX-081811	8/18/2011		39.46	NE	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.000015 U	<0.0001	<0.005	<0.01	<0.0018 U	<0.01	<0.005
	P93D-ROX-102711	10/27/2011		39.59	NE	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005
	P93D-ROX-012012	1/20/2012		41.77	NE	<0.00011	<0.00011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.00011	<0.00011	<0.0054	<0.011	<0.0054	<0.011	<0.0054
	P93D-ROX-050812	5/8/2012		42.96	NE	<0.0001	<0.0001	<0.0001	<0.0001 U	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0001	<0.0001	<0.0051	<0.01	<0.0051	<0.01	<0.0051
	P93D-ROX-080812	8/8/2012		43.71	NE	0.00017	0.000051 J	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.0021 U	<0.0052	<0.0021	<0.0052	<0.01	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
	P93D-ROX-110812	11/8/2012		NM	NE	<0.00011	<0.00011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011	<0.0055
	P93D-ROX-012213	1/22/2013		44.21	NE	<0.00011	<0.00011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	P93D-ROX-041113	4/11/2013		46.37	NE	<0.0001	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
	P93D-ROX-071213	7/12/2013		43.51	NE	<0.000026 U	<0.00011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0056	0.00057 J	<0.0056	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056 UJ
	P93D-ROX-101113	10/11/2013		44.24	NE	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.005	<0.002	<0.005	<0.01 UJ	<0.0001	<0.0001	<0.002	<0.01 UJ	<0.005	<0.01 UJ	<0.005
	P93D-ROX-013114	1/31/2014	125.75 - 127.75	46.62	NE	<0.00011	<0.00011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	0.0045	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						SVOCs																		
						Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic Acid	Benzyl alcohol	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl)phthalate	Butyl benzyl phthalate	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol	Dimethyl phthalate
					Screening Values (mg/L)	0.42 [1]	0.21 [3]	2.1 [1]	0.00013 [1]	0.0002 [1]	0.00018 [1]	0.21 [3]	0.00017 [1]	28 [1]	0.7 [3]	0.01 [2]	0.006 [2]	1.4 [2]		0.0015 [2]	0.0003 [1]	0.007 [3]	0.021 [2]	5.6 [1]	0.14 [2]	
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
P-114	P114-ROX-102811	10/28/2011	32.67 - 52.67	24.73	NE	<0.000095	<0.000095	<0.000095	<0.000048	<0.000095	<0.000048	<0.000095	<0.000095	<0.0095	<0.0095	<0.0048	0.0053	<0.0048	<0.0095	<0.000095	<0.000095	<0.0048	<0.0095	<0.0048	<0.0095	<0.0048
	P114-ROX-012012	1/20/2012		27.17	NE	<0.0001	<0.0001	<0.0001	<0.000051	0.000055 J	0.00005 J	0.000058 J	<0.0001	<0.01 UJ	<0.01	<0.0051	<0.0013 U	<0.00044 U	<0.01	<0.0001	0.000053 J	<0.0051	<0.01	<0.0051	<0.01	<0.0051
	P114-ROX-050912	5/9/2012		28.09	NE	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.0015 J	<0.0052	<0.01	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	<0.01	<0.0052
	P114-ROX-080912	8/9/2012		29.13	NE	<0.0001	0.000029 J	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	0.0039	<0.005	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005
	P114-ROX-110912	11/9/2012		30.90	NE	<0.0001	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
	P114-ROX-012313	1/23/2013		30.22	NE	<0.00011	<0.00011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	0.0059	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.0053 UJ	<0.011	<0.0053 UJ
	P114-ROX-041513	4/15/2013		31.80	NE	<0.0001	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001 UJ	<0.0001 UJ	<0.01	<0.01	<0.0052	0.0023	<0.0052	<0.01	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
	P114-ROX-071813	7/18/2013		27.22	NE	0.00013 B	<0.00011	0.00011	0.000045 J	0.000034 J	0.000064	0.000067 J	<0.00011	<0.011 UJ	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.00011	0.000073 J	<0.0022	<0.011	<0.0055	<0.011	<0.0055
	P114-ROX-071813-DUP	7/18/2013		27.22	NE	<0.00011	<0.00011	0.00013	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	P114-ROX-101713	10/17/2013		29.43	NE	<0.00011	<0.00011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	P114-ROX-012814	1/28/2014	32.67 - 52.67	32.11	NE	<0.00011	<0.00011	0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.00066 J	<0.0054	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
ROST-3-PZ	ROST3PZ-ROX-051412	5/14/2012	40.00 - 50.00	38.82	NE	0.000023 J	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.00065 J	<0.0052	<0.01	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	<0.01	<0.0052
	ROST3PZ-ROX-080712	8/7/2012		39.00	NE	<0.00011	<0.00011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	0.0016 J	<0.011	<0.00011	<0.00011	<0.0022	<0.011	0.0033 J	<0.011	<0.0054
	ROST3PZ-ROX-110112	11/1/2012		40.82	NE	<0.00011	<0.00011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011 UJ	<0.0053
ROST-3-MW	ROST3MW-ROX-012313	1/23/2013	37.81 - 47.81	41.50	NE	0.00025	0.000059 J	0.000074 J	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.005 UJ	<0.01	<0.005 UJ
	ROST3MW-ROX-040513	4/5/2013				0.00016	<0.00011 UJ	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	ROST3MW-ROX-071113	7/11/2013		39.50	NE	0.00029	<0.00011	0.000091 J	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0054	0.00061 J	<0.0054	<0.011 UJ	<0.00011	<0.00011	0.00025 J	<0.011 UJ	<0.0054	0.0016 J J	<0.0054
	ROST3-MW-ROX-100913	10/9/2013		40.16	NE	0.0001 J	<0.00011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0054	<0.0022	<0.0054	<0.011 UJ	<0.00011	<0.00011	<0.0022	<0.011 UJ	<0.0054	<0.011 UJ	<0.0054
	ROST3MW-ROX-011714	1/17/2014	37.81 - 47.81	42.20	NE	<0.00011	<0.00011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0021	<0.0053	<0.011 UJ	<0.00011	<0.00011	<0.0021	<0.011 UJ	<0.0053	<0.011 UJ	<0.0053
ROST-4-PZ(C)	ROST4PZ-C-051412	5/14/2012	34.95 - 44.95	39.04	NE	0.00027	0.000072 J	0.00011	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	0.00027 J	<0.01	<0.005	<0.01	<0.005
	ROST4PZ-C-ROX-072512	7/25/2012		39.10	NE	0.00039 B	<0.00011	<0.00018 U	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	0.00042 J	<0.0053	<0.00051 U	<0.0053	<0.011	<0.00011	<0.00011	0.00036 J	<0.011	0.0012 J	0.003 J	<0.0053
	ROST4PZC-ROX-102912	10/29/2012		40.75	NE	0.000054 J	<0.0001	0.00005 J	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.0045	<0.0052	<0.01	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
	ROST4PZ(C)-ROX-011113	1/11/2013		41.42	NE	<0.00011	<0.00011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053 UJ
	ROST4PZC-ROX-041013	4/10/2013		42.27	NE	0.000066 J	0.000018 J	0.000033 J	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011	<0.0055
	ROST4PZC-ROX-071113	7/11/2013		40.18	NE	0.00019	0.000073 J	0.00012	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0054	0.0032	<0.0054	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	ROST4PZC-ROX-100913	10/9/2013		39.91	NE	0.00012	<0.00011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	ROST4PZC-ROX-011714	1/17/2014	34.95 - 44.95	41.92	NE	<0.00012	<0.00012	<0.00012	<0.000059	<0.00012	<0.000059	<0.00012	<0.00012	<0.01 UJ	<0.012	<0.0059	<0.0024	<0.0059	<0.01 UJ	<0.00012	<0.00012	<0.0024	<0.01 UJ	<0.0059	<0.01 UJ	<0.0059
T-12	T12-ROX-102711	10/27/2011	46.72 - 72.72	38.54	NE	0.00079	0.00012	0.00017	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	0.0025	<0.0051	<0.01	<0.0001	<0.0001	<0.0051	<0.01	<0.0051	0.0109	<0.0051
	T12-ROX-011912	1/19/2012		41.0	NE	0.00047	<0.00011	0.00014	<0.000056	0.000032 J	0.000035 J	0.000069 J	<0.00011		<0.011 UJ	<0.0056	<0.0017 U	<0.00062 U	<0.011	<0.00011	0.00005 J	0.00029 J	<0.011	<0.0056	0.0095 J	<0.0056
	T12-ROX-050912	5/9/2012		42.62	NE	0.00032	<0.0001	0.000081 J	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005
	T12-ROX-080212	8/2/2012		41.92	NE	0.00044	0.000082 J	0.0001 J	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.00011	<0.00011	0.0003 J	<0.011	<0.0054	0.0153	<0.0054
	T12-ROX-110512	11/5/2012		43.91	NE	0.00044	<0.0001	0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.005	0.00054 J	<0.005	<0.01	<0.0001	<0.0001	0.00029 J	<0.01	<0.005	0.0028 J J	<0.005
	T12-ROX-011813	1/18/2013		44.50	NE	0.0005	0.000093 J	<0.00013 U	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	0.0065 J	<0.0053 UJ
	T12-ROX-041513	4/15/2013		44.99	NE	0.00063	0.00009 J	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001 UJ	<0.0001 UJ	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0001	<0.0001	0.00048 J	<0.01	<0.0051	<0.01	<0.0051
	T12-ROX-071613	7/16/2013		42.33	NE	0.00055	0.0001 J	0.00015	0.00013	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	0.001 J	<0.0054 UJ	<0.0044 U	<0.0054	<0.011	<0.00011	<0.00011	0.00042 J	<0.011	<0.0054	0.0096 J	<0.0054
	T12-ROX-101513	10/15/2013		43.73	NE	0.00036	<0.00011	0.00012	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	0.000028 J	<0.00011	0.00029 J	<0.011	<0.0054	0.0047 J	<0.0054
	T12-ROX-012414	1/24/2014	46.72 - 72.72	45.26	NE	0.0005	<0.0001	0.00014	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.0051	0.0073 J	<0.0051

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						SVOCs																				
						Di-n-butyl phthalate	Di-n-octyl phthalate	2,6-Dinitrotoluene	Fluoranthene	Fluorene	Hexachlorobenzene	Indene[6]	Indeno(1,2,3-cd)pyrene	Isophorone (3,5,5-trimethyl-2-cyclohexene-1-one)	1-Methylnaphthalene	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	3 & 4-Methylphenol (m & p-Cresol)	3-Nitroaniline	Nitrobenzene	N-Nitrosodimethylamine	N-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
					Screening Values (mg/L)	0.7 [1]	0.14 [2]	0.00031 [2]	0.28 [1]	0.28 [1]	0.00006 [2]		0.00043 [1]	1.4 [2]	0.49 [3]	0.028 [1]	0.35 [1]	0.35 [3]		0.0035 [2]	0.0006 [3]	0.0032 [2]	0.001 [1]	0.21 [3]	0.1 [1]	0.21 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
MW-01	MW1-ROX-042911	4/29/2011	43.41 - 58.41	38.37	NE	<0.00085 U	<0.0063	<0.013	<0.0063	<0.0063	<0.0063		<0.0063	<0.0063		<0.0063	<0.013	<0.013	<0.013	<0.0063	<0.0063 UJ	<0.0063	<0.013	<0.0063	<0.0063 UJ	<0.0063
	MW1-ROX-072711	7/27/2011		35.77	NE	<0.005	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	MW1-ROX-120511	12/5/2011		37.10	NE	<0.0051	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
	MW1-ROX-011612	1/16/2012	48.80 - 58.80	37.75	NE	<0.0051	<0.0051	<0.01	0.00011	0.000059 J	<0.0051		<0.00012 U	<0.0051	<0.0002	0.000098 J	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.000098	<0.0051	0.00009 J
	MW1-ROX-050112	5/1/2012		39.09	NE	<0.00054 U	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051 UJ	<0.0051	<0.01	<0.000051	<0.0051 UJ	<0.0001
	MW1-ROX-073012	7/30/2012		39.39	NE	<0.00043 U	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.000025 J	<0.0053	<0.00011
	MW1-ROX-102612	10/26/2012		41.22	NE	<0.0057	<0.0057	<0.011	<0.00011	<0.00011	<0.0057		<0.00011	<0.0057	<0.00023	<0.00023	<0.011	<0.011	<0.011	<0.0057	<0.0057	<0.0057	<0.011	<0.000057	<0.0057	<0.00011
	MW1-ROX-121712	12/17/2012		41.22	NE																					
	MW1-ROX-011013	1/10/2013		41.89	NE	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000021 U	<0.0052	<0.0001
	MW1-ROX-040913	4/9/2013		42.55	NE	<0.0012 U	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
	MW1-ROX-070813	7/8/2013		39.56	NE	<0.0051	<0.0051	<0.01	0.000033 J	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000043 U	<0.0051	<0.0001
	MW1-ROX-100313	10/3/2013		40.28	NE	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
	MW1-ROX-011414	1/14/2014	48.80 - 58.80	42.77	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011 UJ	<0.011 UJ	<0.011	<0.0053	<0.0053	<0.0053	<0.011 UJ	0.000031 J	<0.0053 UJ	<0.00011
MW-02	MW02-ROX-051011	5/10/2011	47.19 - 62.19	39.14	NE	<0.001 U	<0.0052	<0.01	<0.0001 UJ	<0.0001 UJ	<0.0052		<0.0001 UJ	<0.0052	0.0049 J J	0.0118 J	0.0062 J	0.0119	<0.01	<0.0052 UJ	<0.0052	<0.0052	<0.01	<0.000052 UJ	0.0057	<0.0001
	MW2-ROX-072711	7/27/2011		37.04	NE	<0.005	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	0.0098	0.0167	<0.01	0.0193 J	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	0.0086	<0.0001
	MW2-ROX-072711-DUP	7/27/2011		37.04	NE	<0.005	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	0.0096	0.0169	<0.01	0.0144 J	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	0.0075	<0.0001
	MW2-ROX-112811	11/28/2011	49.87 - 59.87	38.03	NE	<0.005	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	0.0141	0.0299	<0.01	<0.01	<0.01	<0.005	<0.005 UJ	<0.005	<0.01	<0.00005	<0.005 UJ	<0.0001
	MW2-ROX-011612	1/16/2012		38.89	NE	0.00056 J	<0.0053	<0.011	<0.00011	0.000052 J	<0.0053		<0.000054 U	<0.0053	0.0107	0.0229	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.000066	<0.0053	<0.00011
	MW2-ROX-050112	5/1/2012		40.25	NE	<0.0005 U	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	0.0105	0.021	<0.01	<0.01	<0.01	<0.0052	<0.0052 UJ	<0.0052	<0.01	<0.000052	<0.0052 UJ	<0.0001
	MW2-ROX-073012	7/30/2012		40.60	NE	<0.00047 U	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	0.0097	0.0229	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00004 J	<0.0053	0.000039 J
	MW2-ROX-102612	10/26/2012		42.35	NE	<0.0054	<0.0054	<0.011	0.000061 J	0.00011	<0.0054		<0.00011	<0.0054	0.0091	0.0182	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00011	<0.0054	0.000046 J
	MW2-ROX-011113	1/11/2013		42.94	NE	<0.0056	<0.0056	<0.011	0.00004 J	<0.00011	<0.0056		<0.00011	<0.0056	0.008	0.0162	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.000044 J	<0.0056	0.000039 J
	MW2-ROX-040913	4/9/2013		43.70	NE	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	0.012	0.0256	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
	MW2-ROX-071113	7/11/2013		40.82	NE	<0.0055	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	0.0123 J	0.0249	<0.011	<0.011	<0.011 UJ	<0.0055	<0.0055	<0.0055	<0.011	<0.000051 U	<0.0055 UJ	<0.00011
	MW2-ROX-100813	10/8/2013		41.73	NE	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	0.009	0.0201	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
	MW2-ROX-012014	1/20/2014	49.87 - 59.87	44.00	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	0.0094	0.0208	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000043 U	<0.0053	<0.00011
MW-03	MW03-ROX-051011	5/10/2011	30.98 - 45.98	24.79	NE	<0.0014 U	<0.005	<0.01	<0.0001 UJ	<0.0001 UJ	<0.005		<0.0001 UJ	<0.005	<0.005 UJ	0.00019 J J	<0.01	<0.01	<0.01	<0.005 UJ	<0.005	<0.005	<0.01	<0.00005 UJ	<0.005	<0.0001
	MW3-ROX-080311	8/3/2011		22.72	NE	<0.00061 U	<0.0048	<0.0095	<0.000095	<0.000095	<0.0048		<0.000095	<0.0048	0.00029	0.00017 J	<0.0095	<0.0095	<0.0095	<0.0048	<0.0048	<0.0048	<0.0095	<0.000048	<0.0048 UJ	<0.000095
	MW3-ROX-112911	11/29/2011	34.67 - 44.67	24.06	NE	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052 UJ	<0.0052	<0.01	<0.000052	<0.0052 UJ	<0.0001
	MW3-ROX-112911-DUP	11/29/2011		24.06	NE	<0.0051	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051 UJ	<0.0051	<0.01	<0.000051	<0.0051 UJ	<0.0001
	MW3-ROX-011612	1/16/2012		24.93	NE	<0.0052	<0.0052	<0.01	0.000098 J	<0.0001	<0.0052		<0.00015 U	<0.0052	<0.00021	0.00015 J	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.000095	<0.0052	0.000078 J
	MW3-ROX-043012	4/30/2012		26.19	NE	<0.00047 U	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
	MW3-ROX-072712	7/27/2012		26.60	NE	<0.00066 U	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011 UJ	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.000025 J J	<0.0053	<0.00011
	MW3-ROX-102512	10/25/2012		28.39	NE	<0.0051	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051 UJ	<0.0001
	MW3-ROX-010913	1/9/2013		29.35	NE	0.0025 J	<0.005	<0.01	0.000047 J	0.000052 J	<0.005		<0.0001	<0.005	<0.0002	0.000081 J	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.000068	<0.005 UJ	0.000036 J
	MW3-ROX-040813	4/8/2013		29.74	NE	<0.0057	<0.0057	<0.011	<0.00011	<0.00011	<0.0057		<0.00011	<0.0057	<0.00023	<0.00023	<0.011	<0.011	<0.011	<0.0057	<0.0057	<0.0057	<0.011	<0.000057	<0.0057	<0.00011
	MW3-ROX-071113	7/11/2013		26.32	NE	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	0.00044 J	0.00038	<0.011	<0.011	<0.011 UJ	<0.0054	<0.0054	<0.0054	<0.011	<0.000039 U	<0.0054 UJ	<0.000072 U
	MW3-ROX-100813	10/8/2013		27.38	NE	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	0.00013 J	0.00014 J	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
	MW3-ROX-011614	1/16/2014	34.67 - 44.67	29.91	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011 UJ	<0.011 UJ	<0.011	<0.0053	<0.0053 UJ	<0.0053	<0.011 UJ	<0.000053	<0.0053 UJ	<0.00011

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						SVOCs																				
						Di-n-butyl phthalate	Di-n-octyl phthalate	2,6-Dinitrotoluene	Fluoranthene	Fluorene	Hexachlorobenzene	Indene[6]	Indeno(1,2,3-cd)pyrene	Isophorone (3,5,5-trimethyl-2-cyclohexene-1-one)	1-Methylnaphthalene	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	3 & 4-Methylphenol (m & p-Cresol)	3-Nitroaniline	Nitrobenzene	N-Nitrosodimethylamine	N-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
					Screening Values (mg/L)	0.7 [1]	0.14 [2]	0.00031 [2]	0.28 [1]	0.28 [1]	0.00006 [2]		0.00043 [1]	1.4 [2]	0.49 [3]	0.028 [1]	0.35 [1]	0.35 [3]		0.0035 [2]	0.0006 [3]	0.0032 [2]	0.001 [1]	0.21 [3]	0.1 [1]	0.21 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
MW-04	MW04-ROX-051111	5/11/2011	42.63 - 57.63	36.19	NE	<0.0012 U	<0.005	<0.01	<0.0001 UJ	<0.0001 UJ	<0.005		<0.0001 UJ	<0.005	<0.005 UJ	0.00033 J	<0.01	<0.01	<0.01	<0.005 UJ	<0.005	<0.005	<0.01	<0.00005 UJ	<0.005	<0.0001
	MW4-ROX-072611	7/26/2011		34.15	NE	<0.005	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	0.00044	0.00029	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	MW4-ROX-072611-DUP	7/26/2011		34.15	NE	<0.005	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	0.00031	0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	MW4-ROX-121511	12/15/2011		33.99	NE	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.00043 U	<0.0052	0.00028	0.00026	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
	MW4-ROX-011612	1/16/2012	46.06 - 56.06	36.00	NE	0.00077 J	<0.0052	<0.01	0.000047 J	<0.0001	<0.0052		<0.00018 U	<0.0052	0.0006	0.00059	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.000057	<0.0052	0.000065 J
	MW4-ROX-050312	5/3/2012		37.45	NE	<0.00062 U	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	0.00032	0.00025	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	MW4-ROX-050312-DUP	5/3/2012		37.45	NE	<0.00061 U	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
	MW4-ROX-072512	7/25/2012		37.63	NE	0.00075 J	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	0.00054	0.00045 B	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	0.0018 J	<0.0001
	MW4-ROX-072512-Dup	7/25/2012		37.63	NE	0.00057 J	<0.0051	<0.01	<0.000047 U	<0.0001	<0.0051		<0.0001	<0.0051	0.00049	0.0004 B	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000031 U	0.0023 J	<0.0001
	MW4-ROX-102912	10/29/2012		39.45	NE	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	0.00025	0.00016 J	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
	MW4-ROX-011113	1/11/2013		40.20	NE	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	0.00014 J	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	0.0608	<0.00011
	MW4-ROX-011113-DUP	1/11/2013		40.20	NE	<0.006	<0.006	<0.012	<0.00012	<0.00012	<0.006		<0.00012	<0.006	<0.00024	0.000099 J	<0.012	<0.012	<0.012	<0.006	<0.006	<0.006	<0.012	<0.00006	0.0665	<0.00012
	MW4-ROX-030413	3/4/2013		40.20	NE																					
	MW4-ROX-040913	4/9/2013		40.90	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00022	0.000082 J	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000054	0.11	<0.00011
	MW4-ROX-040913-DUP	4/9/2013		40.90	NE	<0.00062 U	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	0.000076 J	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	0.103	<0.00011
	MW4-ROX-071713	7/17/2013		37.61	NE	<0.0055	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		0.000052 J	<0.0055	0.00037	0.00023	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.00003 U	0.0661	<0.00011
	MW4-ROX-101613	10/16/2013		38.80	NE	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	0.00016 J	0.00015 J	<0.011 UJ	<0.011 UJ	<0.011	<0.0054	<0.0054	<0.0054	<0.011 UJ	<0.000054	0.0168 J	<0.00011
	MW4-ROX-013014	1/30/2014	46.06 - 56.06	41.09	NE	<0.0013 U	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	0.00027	0.00022	<0.011 UJ	<0.011 UJ	<0.011	<0.0054	<0.0054	<0.0054	<0.011 UJ	<0.000022 U	0.0164 J	<0.00011
MW-05	MW05-ROX-051211	5/12/2011	31.13 - 46.13	23.98	NE	<0.0009 U	<0.0053	<0.011	<0.00011 UJ	<0.00011 UJ	<0.0053		<0.00011 UJ	<0.0053	<0.0053 UJ	0.00004 J J	<0.011	<0.011	<0.011	<0.0053 UJ	<0.0053	<0.0053	<0.011	<0.000053 UJ	<0.0053 UJ	<0.00011
	MW5-ROX-072611	7/26/2011		22.00	NE	<0.005	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	0.00056	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	MW5-ROX-072611-DUP	7/26/2011		22.00	NE	<0.005	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	0.00075	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	MW5-ROX-112111	11/21/2011	33.97 - 43.97	23.46	NE	0.00052 J	<0.0053	<0.011	0.00041	<0.00011	<0.0053		<0.00011	<0.0053	0.00051 J	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
	MW5-ROX-011712	1/17/2012		24.76	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	0.0016	<0.00021	<0.011	<0.011	<0.011	<0.0053	0.00078 J	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
	MW5-ROX-050312	5/3/2012		25.89	NE	<0.0005 U	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	0.00072 J	0.0117	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
	MW5-ROX-072512	7/25/2012		26.18	NE	0.00057 J	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	0.003	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000025 U	0.0015 J	<0.0001
	MW5-ROX-102912	10/29/2012		28.16	NE	<0.0051	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	0.0091	0.000084 J	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
	MW5-ROX-011113	1/11/2013		28.75	NE	<0.0055	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	0.0043	0.000084 J	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	0.000048 J	<0.0055	<0.00011
	MW5-ROX-040913	4/9/2013		29.41	NE	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	0.004	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
	MW5-ROX-070913	7/9/2013		26.04	NE	<0.005	<0.005	<0.01	<0.0001	<0.00099 U	<0.005		<0.0001	<0.005	0.0015	<0.0002 UJ	<0.01	<0.01	<0.01 UJ	<0.005	<0.005	<0.005	<0.01	<0.000074 U	<0.005	<0.0001
	MW5-ROX-100813	10/8/2013		26.97	NE	<0.0055	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	0.0038	0.00009 J	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011
	MW5-ROX-011714	1/17/2014		29.59	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	0.0035	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
MW-06A	MW6A-ROX-051611	5/16/2011	31.98 - 46.98	26.10	NE	<0.0016 U	<0.005	<0.01	<0.0001 UJ	0.00025 J	<0.005		<0.0001 UJ	<0.005	<0.005 UJ	<0.0002 UJ	<0.01	<0.01	<0.01	<0.005 UJ	<0.005	<0.005	<0.01	<0.00005 UJ	<0.005	<0.0001
	MW6A-ROX-072611	7/26/2011		23.76	NE	<0.005	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	MW6A-ROX-112111	11/21/2011	34.83 - 44.83	25.49	NE	0.00053 J	0.00093 J	<0.01	<0.0001	<0.0001	<0.0052		0.0015 J	<0.0052	<0.00021 UJ	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
	MW6A-ROX-112111-DUP	11/21/2011		25.49	NE	0.00069 J	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001 UJ	<0.0051	<0.0002 UJ	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
	MW6A-ROX-011712	1/17/2012		26.74	NE	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00015 U	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
	MW6A-ROX-050212	5/2/2012		27.77	NE	<0.005	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	MW6A-ROX-080112	8/1/2012		28.36	NE	0.00049 J	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	MW6A-ROX-102412	10/24/2012		30.06	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
	MW6A-ROX-011413	1/14/2013		31.00	NE	<0.0051	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		0.000072 J	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051 UJ	<0.0051	<0.01	<0.000051	<0.0051 UJ	<0.0001
	MW6A-ROX-040313	4/3/2013		31.62	NE	0.0018 J	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053 UJ	<0.0053	<0.011	0.000084	<0.0053 UJ	0.000053 J
	MW6A-ROX-070913	7/9/2013		28.25	NE	<0.0055	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.00022	<0.00022	<0.011	<0.011	<0.011 UJ	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011
	MW6A-ROX-070913-DUP	7/9/2013		28.25	NE	<0.0055	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.00022	<0.00022	<0.011	<0.011	<0.011 UJ	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011
	MW6A-ROX-100713	10/7/2013		28.87	NE	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011
	MW6A-ROX-100713-DUP	10/7/2013		28.87	NE	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
	MW6A-ROX-011614	1/16/2014	34.83 - 44.83	31.62	NE	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052 UJ	<0.0052	<0.01	<0.000052	<0.0052 UJ	<0.0001
	MW6A-ROX-011614-DUP	1/16/2014		31.62	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053 UJ	<0.0053	<0.011	<0.000053	<0.0053 UJ	<0.00011

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						SVOCs																			
						Di-n-butyl phthalate	Di-n-octyl phthalate	2,6-Dinitrotoluene	Fluoranthene	Fluorene	Hexachlorobenzene	Indene[6]	Indeno(1,2,3-cd)pyrene	Isophorone (3,5,5-trimethyl-2-cyclohexene-1-one)	1-Methylnaphthalene	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	3 & 4-Methylphenol (m & p-Cresol)	3-Nitroaniline	Nitrobenzene	N-Nitrosodimethylamine	N-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
					Screening Values (mg/L)	0.7 [1]	0.14 [2]	0.00031 [2]	0.28 [1]	0.28 [1]	0.00006 [2]		0.00043 [1]	1.4 [2]	0.49 [3]	0.028 [1]	0.35 [1]	0.35 [3]		0.0035 [2]	0.0006 [3]	0.0032 [2]	0.001 [1]	0.21 [3]	0.1 [1]	0.21 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																			
MW-06B	MW6B-ROX-051611	5/16/2011	64.05 - 69.05	25.95	NE	<0.0012 U	<0.0048	<0.0095	<0.000095 UJ	<0.000095 UJ	<0.0048		<0.000095 UJ	<0.0048	<0.0048 UJ	<0.00019 UJ	<0.0095	<0.0095	<0.0095	<0.0048 UJ	<0.0048	<0.0048	<0.0095	<0.000048 UJ	<0.0048	<0.000095
	MW6B-ROX-051611-DUP	5/16/2011		25.95	NE	<0.0014 U	<0.005	<0.01	<0.0001 UJ	<0.0001 UJ	<0.005		<0.0001 UJ	<0.005	<0.005 UJ	<0.0002 UJ	<0.01	<0.01	<0.01	<0.005 UJ	<0.005	<0.005	<0.01	<0.00005 UJ	<0.005	<0.0001
	MW6B-ROX-072311	7/23/2011		23.60	NE	<0.00047 U	<0.0053	<0.011	<0.00021 U	<0.00011	<0.0053		<0.000057 U	<0.0053	<0.00021	<0.000022 U	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000044 U	<0.0053 UJ	<0.00023 U
	MW6B-ROX-110311	11/3/2011		24.67	NE	<0.005	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	MW6B-ROX-011712	1/17/2012		26.77	NE	0.00055 J	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00028 U	<0.0055	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011
	MW6B-ROX-050212	5/2/2012		27.82	NE	0.00039 J	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	MW6B-ROX-080112	8/1/2012		28.39	NE	0.0007 J	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
	MW6B-ROX-102412	10/24/2012		30.11	NE	0.00079 J	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
	MW6B-ROX-011713	1/17/2013		31.11	NE	0.0026 J	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	MW6B-ROX-040313	4/3/2013		31.68	NE	0.0012 J	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	0.0002 J	<0.011	<0.011	<0.011	<0.0054	<0.0054 UJ	<0.0054	<0.011	<0.000054	<0.0054 UJ	<0.00011
	MW6B-ROX-070913	7/9/2013		28.25	NE	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.011 UJ	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011
	MW6B-ROX-100713	10/7/2013		28.93	NE	<0.0054	<0.0054	0.0224	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
	MW6B-ROX-011614	1/16/2014	64.05 - 69.05	31.67	NE	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		0.000043 J	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054 UJ	<0.0054	<0.011	<0.000054	<0.0054 UJ	<0.00011
MW-06C	MW6C-ROX-051611	5/16/2011	84.95 - 89.95	25.76	NE	<0.0013 U	<0.005	<0.01	<0.0001 UJ	<0.0001 UJ	<0.005		<0.0001 UJ	<0.005	<0.005 UJ	<0.0002 UJ	<0.01	<0.01	<0.01	<0.005 UJ	<0.005	<0.005	<0.01	<0.00005 UJ	<0.005	<0.0001
	MW6C-ROX-072411	7/24/2011		23.43	NE	<0.0004 U	<0.0053	<0.011	0.000024 JB	<0.00011	<0.0053		0.000025 J	<0.0053	<0.00021	0.000017 JB	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00002 JB	<0.0053 UJ	0.000023 JB
	MW6C-ROX-110311	11/3/2011		24.47	NE	<0.005	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00011 U	<0.005	<0.0001
	MW6C-ROX-011712	1/17/2012		26.50	NE	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
	MW6C-ROX-050212	5/2/2012		27.62	NE	<0.005	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	MW6C-ROX-080112	8/1/2012		28.15	NE	0.001 J	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	MW6C-ROX-102412	10/24/2012		27.85	NE	<0.0051	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
	MW6C-ROX-011713	1/17/2013		30.88	NE	0.0022 J	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	MW6C-ROX-040313	4/3/2013		31.41	NE	0.00077 J	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	0.00016 J	<0.01	<0.01	<0.01	<0.0052	<0.0052 UJ	<0.0052	<0.01	<0.000052	<0.0052 UJ	<0.0001
	MW6C-ROX-070913	7/9/2013		28.03	NE	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.011 UJ	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011
	MW6C-ROX-100713	10/7/2013		28.72	NE	0.00043 J	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011
	MW6C-ROX-011614	1/16/2014	84.95 - 89.95	31.48	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053 UJ	<0.0053	<0.011	<0.000053	<0.0053 UJ	<0.00011
MW-06D	MW6D-ROX-051611	5/16/2011	104.72 - 109.72	25.60	NE	<0.0015 U	<0.0055	<0.011	<0.00011 UJ	<0.00011 UJ	<0.0055		<0.00011 UJ	<0.0055	<0.0055 UJ	<0.00022 UJ	<0.011	<0.011	<0.011	<0.0055 UJ	<0.0055	<0.0055	<0.011	<0.000055 UJ	<0.0055	<0.00011
	MW6D-ROX-072311	7/23/2011		23.29	NE	<0.00046 U	<0.0053	<0.011	<0.000067 U	<0.00011	<0.0053		<0.000033 U	<0.0053	<0.00021	<0.000018 U	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.00004 U	<0.0053 UJ	<0.000063 U
	MW6D-ROX-110311	11/3/2011		24.31	NE	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
	MW6D-ROX-011712	1/17/2012		26.33	NE	0.00047 J	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.00022	<0.000085 U	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011
	MW6D-ROX-050212	5/2/2012		27.45	NE	0.00047 J	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.0005 U	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.000052	<0.005	<0.0001
	MW6D-ROX-080212	8/2/2012		30.56	NE	<0.0051	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
	MW6D-ROX-102412	10/24/2012		29.71	NE	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
	MW6D-ROX-011713	1/17/2013		30.75	NE	<0.005	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	MW6D-ROX-040313	4/3/2013		31.27	NE	0.00069 J	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053 UJ	<0.0053	<0.011	<0.000053	<0.0053 UJ	<0.00011
	MW6D-ROX-070913	7/9/2013		27.91	NE	<0.0055	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.00022	<0.00022	<0.011	<0.011	<0.011 UJ	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011
	MW6D-ROX-100713	10/7/2013		28.58	NE	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
	MW6D-ROX-011614	1/16/2014	104.72 - 109.72	31.33	NE	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052 UJ	<0.0052	<0.01	<0.000052	<0.0052 UJ	<0.0001
MW-07	MW07-ROX-051311	5/13/2011	42.92 - 52.92	37.50	NE	<0.0017 U	<0.0054	<0.011	<0.00011 UJ	0.0001 J J	<0.0054		<0.00011 UJ	<0.0054	0.0026 J J	0.0049 J	<0.011	0.00082 J	<0.011	<0.0054 UJ	<0.0054	<0.0054	<0.011	0.00017 J	0.0774	0.000044 J
	MW07-ROX-051311D	5/13/2011		37.50	NE	<0.0018 U	<0.0055	<0.011	<0.00011 UJ	0.000097 J J	<0.0055		<0.00011 UJ	<0.0055	0.0026 J J	0.0047 J	<0.011	0.00078 J	<0.011	<0.0055 UJ	<0.0055	<0.0055	<0.011	0.00017 J	0.0793	0.000051 J
	MW7-ROX-072411	7/24/2011		35.65	NE	<0.00044 U	<0.0054	<0.011	0.00003 J	0.000066 J	<0.0054		<0.00011	<0.0054	0.0024	0.003	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.000082 B	<0.0513 UJ	0.00003 J
	MW-7-ROX-110211	11/2/2011		35.95	NE	<0.005	<0.005	<0.01	<0.0001	<0.00028 U	<0.005		<0.0001	<0.005	<0.0043 U	<0.0059 U	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00033 U	0.0702	<0.0001
	MW7-ROX-011812	1/18/2012		38.10	NE	0.00045 J	<0.005	<0.01	<0.0001	0.00018	<0.005		<0.0001	<0.005	0.0055	0.0069	<0.01	<0.01	<0.01 UJ	<0.005	<0.005	<0.005	<0.01	0.00029	0.15	<0.000042 U
	MW7-ROX-011812-DUP	1/18/2012		38.10	NE	<0.0056	<0.0056	<0.011	<0.00011	0.0002	<0.0056		<0.00011	<0.0056	0.0057	0.0071	<0.011	<0.011	<0.011 UJ	<0.0056	<0.0056	<0.0056	<0.011	0.00028	0.165	<0.000043 U
	MW7-ROX-050412	5/4/2012		39.19	NE	<0.00095 U	<0.005	<0.01	0.000039 J	0.00019	<0.005		<0.0001	<0.005	0.0075	0.0087	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.00028	0.0944	<0.0001
	MW7-ROX-080712	8/7/2012		39.50	NE	<0.0051	<0.0051	<0.01	<0.0001	0.00016	<0.0051		<0.0001	<0.0051	0.0055	0.0065	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.00019	0.0576	<0.0001
	MW7-ROX-103012	10/30/2012		41.23	NE	<0.0058	<0.0058	<0.012	<0.00012	0.00023	<0.0058		<0.00012	<0.0058	0.0061 J	0.0077	<0.012	<0.012	<0.012	<0.0058	<0.0058 UJ	<0.0058	<0.012	0.00036	0.0615 J	<0.00005 U
	MW7-ROX-103012-DUP	10/30/2012		41.23	NE	<0.0056	<0.0056	<0.011	<0.00011	0.00026	<0.0056		<0.00011	<0.0056	0.008 J	0.0098	<0.011	<0.011	<0.011	<0.0056	<0.0056 UJ	<0.0056	<0.011	0.00037	0.0812 J	<0.00005 U
	MW7-ROX-011513	1/15/2013		42.21	NE	<0.0053	<0.0053	<0.011	0.00004 J	0.00061	<0.0053		<0.00011	<0.0053	0.0187	0.0224	<0.011	<0.011	<0.011	<0.0053	<0.0053 UJ	<0.0053	<0.011	0.00086	0.0865 J	0.000089 J
	MW7-ROX-011513-DUP	1/15/2013		42.21	NE	<0.0052	<0.0052	<0.01	<0.0001	0.00057	<0.0052		<0.0001	<0.0052	0.0173	0.0207	<0.01	<0.01	<0.01	<0.0052	<0.0052 UJ	<0.0052	<0.01	0.00078	0.0735 J	0.000078 J
	MW7-ROX-041013	4/10/2013		42.70	NE	<0.0054	<0.0054	<0.011	0.000039 J	0.00081	<0.0054		<0.00011	<0.0054	0.0271	0.0351	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.0014	0.147	0.00015
	MW7-ROX-041013-DUP	4/10/2013		42.70	NE	<0.0053	<0.0053	<0.011	0.000068 J	0.00087	<0.0053		<0.00011	<0.0053	0.0274	0.0357	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.0015	0.148	0.00016
	MW7-ROX-071713	7/17/2013		39.60	NE	<0.0054	<0.0054	<0.011	<0.00011	0.00019	<0.0054		0.000078 J	<0.0054	0.0043	0.006	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00024	0.118	0.000039 J
	MW7-ROX-101613	10/16/2013		40.64	NE	<0.0055	<0.0055	<0.011	<0.00011	0.00022	<0.0055		<0.00011	<0.0055	0.0082	0.011	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	0.00019	0.0849	<0.00011
	MW7-ROX-013014	1/30/2014	42.92 - 52.92	42.94	NE	<0.0007 U	<0.005	<0.01	<0.0001	0.00021	<0.005		<0.0001	<0.005	0.0059	0.0083	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.00029	0.0314	<0.0001

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						SVOCs																			
						Di-n-butyl phthalate	Di-n-octyl phthalate	2,6-Dinitrotoluene	Fluoranthene	Fluorene	Hexachlorobenzene	Indene[6]	Indeno(1,2,3-cd)pyrene	Isophorone (3,5,5-trimethyl-2-cyclohexene-1-one)	1-Methylnaphthalene	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	3 & 4-Methylphenol (m & p-Cresol)	3-Nitroaniline	Nitrobenzene	N-Nitrosodimethylamine	N-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
					Screening Values (mg/L)	0.7 [1]	0.14 [2]	0.00031 [2]	0.28 [1]	0.28 [1]	0.00006 [2]		0.00043 [1]	1.4 [2]	0.49 [3]	0.028 [1]	0.35 [1]	0.35 [3]		0.0035 [2]	0.0006 [3]	0.0032 [2]	0.001 [1]	0.21 [3]	0.1 [1]	0.21 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
MW-08	MW08-ROX-051311	5/13/2011	33.60 - 43.60	28.35	NE	<0.0014 U	<0.0055	<0.011	0.00003 J J	0.00023 J	<0.0055		<0.00011 UJ	<0.0055	0.0053 J J	0.0075 J	0.0108 J	0.0243	<0.011	0.0041 J J	<0.0055	<0.0055	<0.011	0.000086 J	0.209	0.000028 J
	MW08-ROX-051311D	5/13/2011		28.35	NE	<0.0021 U	<0.0056	<0.011	<0.00011 UJ	0.00021 J	<0.0056		<0.00011 UJ	<0.0056	0.0055 J J	0.0089 J	0.0105 J	0.0249	<0.011	<0.0056 UJ	<0.0056	<0.0056	<0.011	0.00012 J	0.208	<0.00011
	MW8-ROX-072411	7/24/2011		26.02	NE	<0.0054	0.00077 J	<0.011	0.000031 JB	0.00034	<0.0054		0.000032 J	<0.0054	0.0055	0.0068	0.0205	0.0486	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00014 B	0.0972 J	0.000031 JB
	MW8-ROX-072411-DUP	7/24/2011		26.02	NE	<0.00038 U	0.00054 J	<0.011	0.000022 JB	0.0003	<0.0055		0.000042 J	<0.0055	0.0052	0.0064	0.0177	0.0423	<0.011	<0.0055	<0.0055	<0.0055	<0.011	0.00011 B	0.0906 J	0.000023 JB
	MW-8-ROX-110211	11/2/2011		27.02	NE	<0.0048	<0.0048	<0.0095	<0.000095	<0.00032 U	<0.0048		<0.000095	<0.0048	<0.0094 U	<0.0119 U	0.0152	0.0242	<0.0095	<0.0048	<0.0048	<0.0048	<0.0095	<0.000048	0.134	<0.000095
	MW8-ROX-011812	1/18/2012		29.15	NE	<0.0053	<0.0053	<0.011	<0.00053	0.00074	<0.0053		<0.00053	<0.0053	0.0165	0.0204	0.0044 J	0.0121	<0.011 UJ	<0.0053	<0.0053	<0.0053	<0.011	0.00041	0.375	<0.00053
	MW8-ROX-050412	5/4/2012		30.21	NE	<0.00063 U	<0.0053	<0.011	<0.00011	0.00024	<0.0053		<0.00011	<0.0053	0.0085	0.0099	0.0302	0.0657	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00014	0.258 J	<0.00011
	MW8-ROX-050412-DUP	5/4/2012		30.21	NE	<0.005	<0.005	<0.01	<0.0001	0.00031	<0.005		<0.0001	<0.005	0.0086	0.0102	0.0275	0.0569	<0.01	<0.005	<0.005	<0.005	<0.01	0.00014	0.12 J	<0.0001
	MW8-ROX-080712	8/7/2012		30.97	NE	<0.0054	<0.0054	<0.011	<0.00011	0.00027	<0.0054		<0.00011	<0.0054	0.0091	0.0109	0.0075 J	0.0231	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00015	0.136	<0.00011
	MW8-ROX-080712-DUP	8/7/2012		30.97	NE	<0.0056	<0.0056	<0.011	<0.00011	0.00026	<0.0056		<0.00011	<0.0056	0.0092	0.0111	0.0081 J	0.024	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.00014	0.134	<0.00011
	MW8-ROX-103012	10/30/2012		32.32	NE	0.00082 J	0.00063 J	<0.011	0.00059 B	0.00053	<0.0053		0.00059 B	<0.0053	0.0097	0.0112	0.0058 J	0.0158	<0.011	<0.0053	<0.0053 UJ	0.00052 J	0.003 J	0.00057	0.165 J	0.00054 B
	MW8-ROX-011513	1/15/2013		33.30	NE	<0.0056	<0.0056	<0.011	<0.00011	0.00041	<0.0056		<0.00011	<0.0056	0.011	0.0129	0.0332	0.102	<0.011	<0.0056	<0.0056 UJ	<0.0056	<0.011	0.00016	0.0997 J	<0.00011
	MW8-ROX-041013	4/10/2013		33.77	NE	0.0013 J	<0.0053	<0.011	0.000056 J	0.00032	<0.0053		<0.00011	<0.0053	0.0091	0.0113	0.0388	0.084	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00019	0.253 J	0.000042 J
	MW8-ROX-071713	7/17/2013		30.43	NE	<0.0052	<0.0052	<0.01	<0.0001	0.00033	<0.0052		<0.0001	<0.0052	0.0097 J	0.0113	0.0046 J	0.0106	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.00015	0.328	0.000062 J
	MW8-ROX-071713-DUP	7/17/2013		30.43	NE	<0.0054	<0.0054	<0.011	<0.00011	0.00036	<0.0054		<0.00011	<0.0054	0.0087 J	0.0098	0.0037 J	0.0091 J	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00016	0.303	<0.00011
	MW8-ROX-101613	10/16/2013		31.59	NE	<0.0054	<0.0054	<0.011	<0.00011	0.00041	<0.0054		<0.00011	<0.0054	0.0117	0.0136	0.0022 J	0.0052 J	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00011	0.0996	<0.00011
	MW8-ROX-101613-DUP	10/16/2013		31.59	NE	<0.0059	<0.0059	<0.012	<0.00012	0.00037	<0.0059		<0.00012	<0.0059	0.0108	0.0128	0.0019 J	0.0046 J	<0.012	<0.0059	<0.0059	<0.0059	<0.012	0.000097	0.108	<0.00012
	MW8-ROX-013014	1/30/2014	33.60 - 43.60	34.02	NE	<0.0011 U	<0.0051	<0.01	<0.0001	0.00054	<0.0051		<0.0001	<0.0051	0.0137	0.0123	0.0128	0.0198	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.00018	0.105	<0.0001
	MW8-ROX-013014-DUP	1/30/2014		34.02	NE	<0.00092 U	<0.0054	<0.011	<0.00011	0.00052	<0.0054		<0.00011	<0.0054	0.0136	0.0123	0.0129	0.019	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00019	0.135	<0.00011
MW-09	MW09-ROX-050611	5/6/2011	46.45 - 56.45	40.12	NE	<0.00046 U	<0.0049	<0.0097	0.00002 J J	<0.000097 UJ	<0.0049		<0.000097 UJ	<0.0049	<0.0049 UJ	<0.00019 UJ	<0.0097	<0.0097	<0.0097	<0.0049 UJ	<0.0049	<0.0049	<0.0097	<0.000049 UJ	<0.0049	<0.000097
	MW9-ROX-072311	7/23/2011		38.06	NE	<0.0054	<0.0054	<0.011	<0.000044 U	<0.00011	<0.0054		<0.000031 U	<0.0054	<0.00022	<0.00022	<0.01 UJ	<0.01 UJ	<0.011	<0.0054	<0.0054	<0.0054	<0.01 UJ	<0.00003 U	<0.005 UJ	<0.000046 U
	MW9-ROX-110111	11/1/2011		37.78	NE	<0.005	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	MW9-ROX-011612	1/16/2012		39.50	NE	0.00048 J	<0.0057	<0.011	<0.00011	<0.00011	<0.0057		<0.000098 U	<0.0057	<0.00023	<0.00023	<0.011	<0.011	<0.011	<0.0057	<0.0057	<0.0057	<0.011	<0.000057	<0.0057	<0.00011
	MW9-ROX-050312	5/3/2012		41.03	NE																				
	MW9-ROX-072712	7/27/2012		41.30	NE	<0.00054 U	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01 UJ	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	MW9-ROX-102912	10/29/2012		43.17	NE	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
	MW9-ROX-011113	1/11/2013		43.90	NE	<0.0054	<0.0054	<0.011	0.000066 J	0.00011	<0.0054		<0.00011	<0.0054	<0.00022	0.00014 J	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00012	<0.0054	0.000057 J
	MW9-ROX-040913	4/9/2013		44.67	NE	<0.0018 UJ	<0.0052 UJ	<0.01 UJ	<0.0001 UJ	<0.0001 UJ	<0.0052 UJ		<0.0001 UJ	<0.0052 UJ	<0.00021 UJ	<0.00021 UJ	<0.01 UJ	<0.01 UJ	<0.01 UJ	<0.0052 UJ	<0.0052 UJ	<0.0052 UJ	<0.01 UJ	<0.000052 UJ	<0.0052 UJ	<0.0001 UJ
	MW9-ROX-070813	7/8/2013		42.35	NE	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022				<0.0056	<0.0056	<0.0056		<0.000028 U		<0.00011
	MW9-ROX-100313	10/3/2013		42.27	NE	<0.005	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	MW9-ROX-011414	1/14/2014	46.45 - 56.45	44.47	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011 UJ	<0.011 UJ	<0.011	<0.0053	<0.0053	<0.0053	<0.011 UJ	<0.000053	<0.0053 UJ	<0.00011
MW-10	MW10-ROX-042811	4/28/2011	44.43 - 54.43	40.20	NE	<0.00061 U	<0.0048	<0.0095	<0.0048	<0.0048	<0.0048		<0.0048	<0.0048		<0.0048	<0.0095	<0.0095	<0.0095	<0.0048	<0.0048 UJ	<0.0048	<0.0095	<0.0048	<0.0048 UJ	<0.0048
	MW10-ROX-072311	7/23/2011		38.01	NE	<0.005	<0.005	<0.01	<0.000047 U	<0.0001	<0.005		<0.000031 U	<0.005	<0.0002	<0.00002 U	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.000027 U	<0.005 UJ	<0.000044 U
	MW10-ROX-110111	11/1/2011		37.72	NE	<0.005	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	MW10-ROX-011612	1/16/2012		39.28	NE	0.00081 J	<0.0053	<0.011	0.000052 J	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	0.000055 J	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.000072	<0.0053	0.00005 J
	MW10-ROX-050112	5/1/2012		40.86	NE	<0.00041 U	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052 UJ	<0.0052	<0.01	0.000033 J	<0.0052 UJ	<0.0001
	MW10-ROX-072712	7/27/2012		41.21	NE	<0.00043 U	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01 UJ	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	MW10-ROX-102612	10/26/2012		43.08	NE	<0.0056	<0.0056	<0.011	0.000052 J	0.000086 J	<0.0056		<0.00011	<0.0056	<0.00022	0.00009 J	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.000076	<0.0056	0.00004 J
	MW10-ROX-121712	12/17/2012		43.08	NE																				
	MW10-ROX-011013	1/10/2013		44.10	NE	<0.005	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.000021 U	<0.005	<0.0001
	MW10-ROX-012113	1/21/2013		44.10	NE	<0.01	<0.01	<0.001	<0.0001	<0.0001	<0.002		<0.0001	<0.01		<0.01	<0.01	<0.01	<0.002	<0.004	<0.02	<0.003	<0.004	<0.0001	<0.005	<0.0001
	MW10-ROX-040913	4/9/2013		44.60	NE	<0.0019 U	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
	MW10-ROX-070813	7/8/2013		42.27	NE	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000021 U	<0.0056	<0.00011
	MW10-ROX-100313	10/3/2013		42.38	NE	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011
	MW10-ROX-011514	1/15/2014	44.43 - 54.43	44.42	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		0.000072 J	<0.0053	<0.00021	<0.00021	<0.011 UJ	<0.011 UJ	<0.011	<0.0053	<0.0053	<0.0053	<0.011 UJ	0.000037 JB	<0.0054 UJ	<0.00011

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						SVOCs																				
						Di-n-butyl phthalate	Di-n-octyl phthalate	2,6-Dinitrotoluene	Fluoranthene	Fluorene	Hexachlorobenzene	Indene[6]	Indeno(1,2,3-cd)pyrene	Isophorone (3,5,5-trimethyl-2-cyclohexene-1-one)	1-Methylnaphthalene	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	3 & 4-Methylphenol (m & p-Cresol)	3-Nitroaniline	Nitrobenzene	N-Nitrosodimethylamine	N-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
					Screening Values (mg/L)	0.7 [1]	0.14 [2]	0.00031 [2]	0.28 [1]	0.28 [1]	0.00006 [2]		0.00043 [1]	1.4 [2]	0.49 [3]	0.028 [1]	0.35 [1]	0.35 [3]		0.0035 [2]	0.0006 [3]	0.0032 [2]	0.001 [1]	0.21 [3]	0.1 [1]	0.21 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
MW-11	MW11-ROX-050611	5/6/2011	41.66 - 51.66	37.60	NE	<0.001 U	<0.0048	<0.0095	0.000026 J J	<0.000095 UJ	<0.0048		0.000015 J J	<0.0048	<0.0048 UJ	<0.00019 UJ	<0.0095	<0.0095	<0.0095	<0.0048 UJ	<0.0048	<0.0048	<0.0095	0.000025 J J	<0.0048	0.000026 J
	MW11-ROX-072411	7/24/2011		34.3	NE	<0.0056	<0.0056	<0.011	0.000025 JB	<0.00011	<0.0056		0.000026 J	<0.0056	<0.00022	0.000023 JB	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.000021 JB	<0.0056 UJ	0.000024 JB
	MW-11-ROX-110211	11/2/2011		35.44	NE	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
	MW11-ROX-011712	1/17/2012		37.44	NE																					
	MW11-ROX-043012	4/30/2012		38.66	NE	<0.0051	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
	MW11-ROX-072712	7/27/2012		38.90	NE	<0.00057 U	<0.0058	<0.012	<0.00012	<0.00012	<0.0058		<0.00012	<0.0058	<0.00023	<0.00023	<0.012	<0.012 UJ	<0.012	<0.0058	<0.0058	<0.0058	<0.012	<0.000058	<0.0058	<0.00012
	MW11-ROX-102512	10/25/2012		40.59	NE	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054 UJ	<0.00011
	MW11-ROX-011013	1/10/2013		41.43	NE	<0.005 UJ	<0.005 UJ	<0.01 UJ	<0.0001 UJ	<0.0001 UJ	<0.005 UJ		<0.0001 UJ	<0.005 UJ	<0.0002 UJ	<0.0002 UJ	<0.01 UJ	<0.01 UJ	<0.01 UJ	<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.01 UJ	<0.000015 UJ	<0.005 UJ	<0.0001 UJ
	MW11-ROX-040813	4/8/2013		42.02	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
	MW11-ROX-070813	7/8/2013		39.24	NE	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
	MW11-ROX-100713	10/7/2013		39.95	NE	<0.0055	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011
	MW11-ROX-011514	1/15/2014	41.66 - 51.66	42.16	NE	<0.0055	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.000026 U	<0.0055	<0.00011
MW-12	MW12-ROX-051211	5/12/2011	41.92 - 51.92	37.58	NE	<0.0011 U	<0.005	<0.01	<0.0001 UJ	<0.0001 UJ	<0.005		<0.0001 UJ	<0.005	<0.005 UJ	<0.0002 UJ	<0.01	<0.01	<0.01	<0.005 UJ	<0.005	<0.005	<0.01	<0.00005 UJ	<0.005 UJ	<0.0001
	MW12-ROX-072411	7/24/2011		35.55	NE	<0.00039 U	<0.005	<0.01	0.000035 JB	<0.0001	<0.005		0.000047 J	<0.005	<0.0002	<0.0002	<0.01 UJ	<0.01 UJ	<0.01	<0.005	<0.005	<0.005	<0.01 UJ	0.000024 JB	<0.005 UJ	0.00004 JB
	MW-12-ROX-110211	11/2/2011		35.70	NE	<0.0048	<0.0048	<0.0095	<0.000095	<0.000095	<0.0048		<0.000095	<0.0048	<0.00019	<0.00019	<0.0095	<0.0095	<0.0095	<0.0048	<0.0048	<0.0048	<0.0095	<0.000048	<0.0048	<0.000095
	MW-12-ROX-110211-DUP	11/2/2011		35.70	NE	<0.0048	<0.0048	<0.0095	<0.000095	<0.000095	<0.0048		<0.000095	<0.0048	<0.00019	<0.00019	<0.0095	<0.0095	<0.0095	<0.0048	<0.0048	<0.0048	<0.0095	<0.000048	<0.0048	<0.000095
	MW12-ROX-011712	1/17/2012		37.70	NE	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00023 U	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
	MW12-ROX-011712-DUP	1/17/2012		37.70	NE	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00007 U	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011
	MW12-ROX-043012	4/30/2012		38.98	NE	<0.0051	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
	MW12-ROX-072712	7/27/2012		39.22	NE	<0.00063 U	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011 UJ	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
	MW12-ROX-102512	10/25/2012		40.95	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053 UJ	<0.00011
	MW12-ROX-011013	1/10/2013		41.83	NE	<0.0051	<0.0051	<0.01	0.000045 J	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000032 U	<0.0051	<0.0001
	MW12-ROX-040813	4/8/2013		42.46	NE	<0.0052	<0.0052	<0.01	0.000044 J	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
	MW12-ROX-070913	7/9/2013		39.28	NE	<0.0055	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.00022	<0.00022	<0.011	<0.011	<0.011 UJ	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011
	MW12-ROX-100713	10/7/2013		40.22	NE	<0.0055	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.00022	<0.00022	<0.011 UJ	<0.011 UJ	<0.011	<0.0055	<0.0055	<0.0055	0.0018 J J	<0.000055	<0.0053 UJ	<0.00011
	MW12-ROX-011514	1/15/2014	41.92 - 51.92	42.54	NE	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01 UJ	<0.01 UJ	<0.01	<0.0052	<0.0052	<0.0052	<0.01 UJ	<0.000022 U	<0.0052 UJ	<0.0001
MW-13	MW13-ROX-051311	5/13/2011	25.57 - 35.57	23.65	NE	<0.0013 U	<0.005	<0.0099	0.000032 J J	0.00023 J	<0.005		<0.000099 UJ	<0.005	<0.005 UJ	0.00015 J J	<0.0099	<0.0099	<0.0099	<0.005 UJ	<0.005	<0.005	<0.0099	0.000095 J	<0.005 UJ	0.000089 J
	MW13-ROX-080311	8/3/2011		21.67	NE	<0.00074 U	<0.005	<0.01	<0.0001	<0.0001	<0.005		0.00004 J	<0.005	<0.0002	0.00011 J	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.000054 U	<0.005 UJ	0.000041 J
	MW13-ROX-110311	11/3/2011		22.85	NE	<0.0056	<0.0056	<0.011	<0.00011	<0.00033 U	<0.0056		<0.00011	<0.0056	<0.00081 U	<0.0003 U	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00018 U
	MW13-ROX-012012	1/20/2012		24.77	NE	<0.00058 U	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	0.00022	<0.00027 U	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	0.0015 J	0.000065 J
	MW13-ROX-050712	5/7/2012		25.79	NE	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
	MW13-ROX-080812	8/8/2012		26.67	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	0.00021	<0.00014 UJ	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
	MW13-ROX-110812	11/8/2012		25.30	NE	0.00054 J	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	MW13-ROX-012313	1/23/2013		29.26	NE	0.0027 J	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.00022	0.00011 J	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011
	MW13-ROX-041213	4/12/2013		29.44	NE	<0.0051	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	0.00011 J	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
	MW13-ROX-071213	7/12/2013		25.67	NE	<0.0054	<0.0054	<0.011	<0.000042	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.000067 U	<0.011	<0.011	<0.011	<0.0054	<0.0054 UJ	<0.0054	<0.011	<0.000076	<0.0054 UJ	<0.00004
	MW13-ROX-100913	10/9/2013		26.94	NE	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
	MW13-ROX-012914	1/29/2014	25.57 - 35.57	29.63	NE	<0.0055	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.000096 U	<0.00022	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011
MW-14	MW14-ROX-110911	11/9/2011	33.42 - 43.42			<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
	MW14-ROX-051012	5/10/2012		NM	NE	0.00043 J	<0.0052	<0.01	<0.0001	0.00022	<0.0052		<0.0001	<0.0052	0.0101	0.0015	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
	MW14-ROX-080312	8/3/2012		NM	NE	<0.0053	<0.0053	<0.011	<0.00011	0.00071	<0.0053		<0.00011	<0.0053	0.019	0.0038	<0.011	<0.011	<0.011	0.00032 J	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
	MW14-ROX-103112	10/31/2012		32.02	NE	0.00044 J	<0.005	<0.01	<0.0001	0.00029	<0.005		<0.0001	<0.005	0.0192	0.004	<0.01	<0.01	<0.01	<0.005	<0.005 UJ	<0.005	<0.01	<0.000051	<0.005 UJ	<0.0001
	MW14-ROX-011813	1/18/2013		33.05	NE	<0.005	<0.005	<0.01	<0.0001	0.00064	<0.005		<0.0001	<0.005	0.0215	0.0084	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	MW14-ROX-041113	4/11/2013		33.31	NE	<0.0054	<0.0054	<0.011	0.000068 J	0.00016	<0.0054		<0.00011	<0.0054	0.0124	0.0018	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.0001	<0.0054	0.000053 J
	MW14-ROX-071213	7/12/2013		30.36	NE	0.00043 J	<0.0053	<0.011	<0.00011	<0.000093 U	<0.0053		<0.00011	<0.0053	0.0127	0.0027	<0.011	<0.011	<0.011	<0.0053	<0.0053 UJ	<0.0053	<0.011	<0.000032 U	<0.0053 UJ	<0.000067 U
	MW14-ROX-101013	10/10/2013		30.80	NE	<0.0057	<0.0057	<0.011	<0.00011	0.00034	<0.0057		<0.00011	<0.0057	0.0184	<0.00023	<0.011	<0.011	<0.011	<0.0057	<0.0057	<0.0057	<0.011	<0.000057	<0.0057	<0.00011
	MW14-ROX-012914	1/29/2014	33.42 - 43.42	33.67	NE	0.00045 J	<0.0054	<0.011	<0.00011	0.00041	<0.0054		<0.00011	<0.0054	0.0075	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
MW-16	MW16-ROX-012313	1/23/2013	37.06 - 47.06	43.05	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	0.000085 J	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.000025 J J	<0.0053	<0.00011
	MW16-ROX-040813	4/8/2013		43.39	NE	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	0.000058 J	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
	MW16-ROX-070813	7/8/2013		40.62	NE	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000018 U	<0.0056	<0.00011
	MW16-ROX-100813	10/8/2013		41.62	NE	<0.0052 UJ	<0.0052 UJ	<0.01 UJ	<0.0001 UJ	<0.0001 UJ	<0.0052 UJ		<0.0001 UJ	<0.0052 UJ	<0.00021 UJ	<0.00021 UJ	<0.01 UJ	<0.01 UJ	<0.01 UJ	<0.0052 UJ	<0.0052 UJ	<0.0052 UJ	<0.01 UJ	<0.000052 UJ	<0.0052 UJ	<0.0001 UJ
	MW16-ROX-011514	1/15/2014	37.06 - 47.06	43.76	NE	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000031 U	<0.0052	<0.0001

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						SVOCs																		
						Di-n-butyl phthalate	Di-n-octyl phthalate	2,6-Dinitrotoluene	Fluoranthene	Fluorene	Hexachlorobenzene	Indene[6]	Indeno(1,2,3-cd)pyrene	Isophorone (3,5,5-trimethyl-2-cyclohexene-1-one)	1-Methylnaphthalene	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	3 & 4-Methylphenol (m & p-Cresol)	3-Nitroaniline	Nitrobenzene	N-Nitrosodimethylamine	N-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
					Screening Values (mg/L)	0.7 [1]	0.14 [2]	0.00031 [2]	0.28 [1]	0.28 [1]	0.00006 [2]		0.00043 [1]	1.4 [2]	0.49 [3]	0.028 [1]	0.35 [1]	0.35 [3]		0.0035 [2]	0.0006 [3]	0.0032 [2]	0.001 [1]	0.21 [3]	0.1 [1]	0.21 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
MW-22	MW22-ROX-012313	1/23/2013	37.88 - 47.88	41.80	NE	0.0024 J	<0.0052	<0.01	<0.0001	0.00018	<0.0052		<0.0001	<0.0052	0.0276	0.05	0.018	0.0322	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.00019	0.0111	<0.0001
	MW22-ROX-012313-DUP	1/23/2013		41.80	NE	0.0024 J	<0.0053	<0.011	<0.00011	0.00018	<0.0053		<0.00011	<0.0053	0.028	0.0501	0.0187	0.0349	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.0002	0.0122	<0.00011
	MW22-ROX-040513	4/5/2013		42.23	NE	0.00057 J	<0.0053	<0.011	<0.00011	0.00018	<0.0053		<0.00011	<0.0053	0.0241	0.0413	0.0236	0.0403	<0.011	<0.0053	<0.0053 UJ	<0.0053	<0.011	0.00019	0.0123 J	<0.00011
	MW22-ROX-071113	7/11/2013		39.35	NE	<0.0054	<0.0054	<0.011	<0.00011	0.00027	<0.0054		<0.00011	<0.0054	0.0232 J	0.0393	0.0159	0.029	<0.011 UJ	<0.0054	<0.0054	<0.0054	<0.011	0.0002 B	0.0094 J	<0.00011
	MW22-ROX-071113-DUP	7/11/2013		39.35	NE	0.00052 J	<0.0056	<0.011	<0.00011	0.00017	<0.0056		<0.00011	<0.0056	0.0216 J	0.037	0.0147	0.0269	<0.011 UJ	<0.0056	<0.0056	<0.0056	<0.011	0.0002 B	0.0088 J	<0.00011
	MW22-ROX-100913	10/9/2013		40.39	NE	<0.0054	<0.0054	<0.011	<0.00011	0.00019	<0.0054		<0.00011	<0.0054	0.0276	0.0468	0.0152	0.0319	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00019	<0.0054	<0.00011
	MW22-ROX-100913-DUP	10/9/2013		40.39	NE	<0.0054	<0.0054	<0.011	<0.00011	0.0002	<0.0054		<0.00011	<0.0054	0.0265	0.0451	0.0139	0.0296	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00016	<0.0054	<0.00011
	MW22-ROX-012014	1/20/2014	37.88 - 47.88	42.49	NE	<0.027	<0.027	<0.053	<0.00011	0.00017	<0.027		<0.00011	<0.027	0.0258	0.0459	0.0124 J	0.0313 J	<0.053	<0.027	<0.027	<0.027	<0.053	0.0002 B	0.0071 J	<0.00011
	MW22-ROX-012014-DUP	1/20/2014		42.49	NE	<0.027	<0.027	<0.054	<0.00011	0.00015	<0.027		<0.00011	<0.027	0.0232	0.0416	0.0118 J	0.0296 J	<0.054	<0.027	<0.027	<0.027	<0.054	0.0002 B	0.007 J	<0.00011
MW-24	MW24-ROX-040513	4/5/2013	38.89 - 48.89	43.39	NE	0.00049 J	<0.0052	<0.01	0.000088 J	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	0.00015 J	<0.01	<0.01	<0.01	<0.0052	<0.0052 UJ	<0.0052	<0.01	<0.000052	<0.0052 UJ	0.000066 J
	MW24-ROX-071113	7/11/2013		40.35	NE	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022 UJ	0.000062 J	<0.011 UJ	<0.011 UJ	<0.011 UJ	<0.0054	<0.0054	<0.0054	<0.011 UJ	<0.000038 U	<0.0053 UJ	<0.00011
	MW24-ROX-100913	10/9/2013		41.27	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
	MW24-ROX-011514	1/15/2014	38.89 - 48.89	43.47	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
P-54	P54-ROX-051111	5/11/2011	38.00 - 63.00	37.37	NE	<0.0011 U	<0.005	<0.01	0.000031 J J	<0.00011 UJ	<0.005		<0.00011 UJ	<0.005	<0.005 UJ	<0.00022 UJ	<0.01	<0.01	<0.01	<0.005 UJ	<0.005	<0.005	<0.01	<0.000054 UJ	<0.005	0.000028 J
	P54-ROX-072411	7/24/2011		35.38	NE	<0.00049 U	<0.005	<0.01	0.000035 JB	<0.0001	<0.005		0.00004 J	<0.005	<0.0002	0.000026 JB	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.000025 JB	<0.005 UJ	0.000031 JB
	P54-ROX-110311	11/3/2011		35.49	NE	<0.005	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	P54-ROX-011712	1/17/2012		37.17	NE	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00081 U	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
	P54-ROX-050412	5/4/2012		38.77	NE	<0.00085 U	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	0.0026 J	<0.0001
	P54-ROX-080212	8/2/2012		38.95	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
	P54-ROX-103012	10/30/2012		40.70	NE	<0.0051	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051 UJ	<0.0051	<0.01	<0.000051	<0.0051 UJ	<0.0001
	P54-ROX-011113	1/11/2013		41.56	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.000032 J	<0.0053	<0.00011
	P54-ROX-041013	4/10/2013		41.80	NE	<0.0057	<0.0057	<0.011	<0.00011	<0.00011	<0.0057		<0.00011	<0.0057	<0.00023	<0.00023	<0.011	<0.011	<0.011	<0.0057	<0.0057	<0.0057	<0.011	<0.000057	<0.0057	<0.00011
	P54-ROX-050313	5/3/2013		41.80	NE	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011
	P54-ROX-071113	7/11/2013		39.07	NE	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021 UJ	0.000083 J	<0.01	<0.01	<0.01 UJ	<0.0052	<0.0052	<0.0052	<0.01	<0.000049 U	<0.0052 UJ	<0.0001
	P54-ROX-100813	10/8/2013		39.94	NE	<0.0057	<0.0057	<0.011	<0.00011	<0.00011	<0.0057		<0.00011	<0.0057	<0.00023	<0.00023	<0.011	<0.011	<0.011	<0.0057	<0.0057	<0.0057	<0.011	<0.000057	<0.0057	<0.00011
	P54-ROX-011514	1/15/2014	38.00 - 63.00	42.20	NE	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
P-55	P55-ROX-103111	10/31/2011	39.82 - 64.82	39.15	NE	<0.005	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	0.00065	0.00096	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.00016	<0.005	<0.0001
	P55-ROX-011912	1/19/2012		41.09	NE	<0.0052	<0.0052	<0.01	<0.0001	0.00038	<0.0052		<0.0001	<0.0052	0.0048	0.0076	<0.01	<0.01	<0.01 UJ	<0.0052	<0.0052	<0.0052	<0.01	0.00039	<0.0052	<0.0001
	P55-ROX-011912-D	1/19/2012		41.09	NE	<0.0054	<0.0054	<0.011	<0.00011	0.00032	<0.0054		0.00011	<0.0054	0.0046	0.0076	<0.011	<0.011	<0.011 UJ	<0.0054	<0.0054	<0.0054	<0.011	0.00036	0.0029 J	<0.00011
	P55-ROX-050912	5/9/2012		42.44	NE	<0.0051	<0.0051	<0.01	<0.0001	0.00069	<0.0051		<0.0001	<0.0051	0.0118	0.0179	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.00066	<0.0051	<0.0001
	P55-ROX-012113	1/21/2013	40.43 - 50.43	43.60	NE	<0.01	<0.01	<0.001	<0.0001	0.00133	<0.002		<0.0001	<0.01		0.042	<0.01	<0.01	<0.002	<0.004	<0.02	<0.003	<0.004	0.00211	0.004 J	<0.0001
	P55-ROX-012113	1/21/2013		43.60	NE	0.00069 J	<0.0051	<0.01	<0.0001	0.00093	<0.0051		<0.0001	<0.0051	0.0176	0.0254	<0.01	0.0018 J	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.0017	0.0034 J	<0.0001
	P55-ROX-041513	4/15/2013		43.63	NE	<0.0052	<0.0052	<0.01	<0.0001	0.0013	<0.0052		<0.0001	<0.0052	0.0268	0.0389	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.0021	<0.0052	<0.0001
	P55-ROX-071613	7/16/2013		40.06	NE	<0.0056	<0.0056	<0.011	<0.00011	0.0015	<0.0056		<0.00011	<0.0056	0.0244	0.0353	<0.011 UJ	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.0019	0.0048 J J	<0.00011
	P55-ROX-101013	10/10/2013		41.67	NE	<0.0055	<0.0055	<0.011	<0.00011	0.0014	<0.0055		<0.00011	<0.0055	0.0279	0.0415	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	0.0017	0.002 J	<0.00011
P-56	P56-ROX-102711	10/27/2011	40.82 - 65.82	39.42	NE	<0.0052	<0.0052	<0.01	<0.0001	0.00039	<0.0052		<0.0001	<0.0052	0.016	0.0224	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.0011	<0.0052	<0.0001
	P56-ROX-011912	1/19/2012		41.81	NE	<0.00044 U	<0.0051	<0.01	<0.0001	0.00046	<0.0051		<0.0001	<0.0051	0.0186	0.024	<0.01	<0.01	<0.01 UJ	<0.0051	<0.0051	<0.0051	<0.01	0.0012	<0.0051	0.000036 J
	P56-ROX-050812	5/8/2012		43.09	NE	<0.0052	<0.0052	<0.01	<0.0001	0.00033	<0.0052		<0.0001	<0.0052	0.0186	0.0236	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.0011	<0.0052	<0.0001
	P56-ROX-080612	8/6/2012		43.60	NE	<0.00075 U	<0.0051	<0.01	<0.0001	0.0003	<0.0051		<0.0001	<0.0051	0.0143	0.0178	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.0013	<0.0051	<0.0001
	P56-ROX-103112	10/31/2012		44.80	NE	<0.0051	<0.0051	<0.01	<0.0001	0.00046	<0.0051		<0.0001	<0.0051	0.024	0.0307	<0.01	0.0011 J	<0.01	<0.0051	<0.0051 UJ	<0.0051	<0.01	0.0013	<0.0051 UJ	<0.0001
	P56-ROX-011713	1/17/2013		45.65	NE	<0.005	<0.005	<0.01	<0.0001	0.00032	<0.005		<0.0001	<0.005	0.0147	0.0131	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.0012	0.0014 J	<0.0001
	P56-ROX-041213	4/12/2013		46.12	NE	<0.0055	<0.0055	<0.011	<0.00011	0.00032	<0.0055		<0.00011	<0.0055	0.0208	0.0239	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	0.0012	<0.0055	<0.00011
	P56-ROX-071513	7/15/2013		43.25	NE	<0.0055	<0.0055	<0.011	<0.00011	0.00059	<0.0055		<0.00011	<0.0055	0.0315	0.0431	<0.011 UJ	0.0064 J	<0.011	<0.0055	<0.0055	<0.0055	<0.011	0.0015	<0.0055 UJ	<0.00011
	P56-ROX-101013	10/10/2013		44.48	NE	<0.0055	<0.0055	<0.011	<0.00011	0.00044	<0.0055		<0.00011	<0.0055	0.0251	0.03	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	0.0013	<0.0055	<0.00011
	P56-ROX-012214	1/22/2014	40.82 - 65.82	46.35	NE	<0.0052	<0.0052	<0.01	<0.0001	0.00035	<0.0052		<0.0001	<0.0052	0.0193	0.0228	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.0012	<0.0052	<0.0001
P-57	P57-ROX-110811	11/8/2011	40.46 - 65.46	39.20	NE	<0.0054	<0.0054	<0.011	<0.00054	0.00076	<0.0054		<0.00054	<0.0054	0.0288	0.0388	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.0006	0.286	<0.00054
	P57-ROX-021312	2/13/2012		42.13	NE	<0.00046 U	<0.0051	<0.01	<0.0001	0.00087	<0.0051		<0.0001	<0.0051		0.0403	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.00051	0.297	<0.0001
	P57-ROX-050712	5/7/2012		42.92	NE	<0.0052	<0.0052	<0.01	<0.0001	0.00045	<0.0052		<0.0001	<0.0052	0.0169	0.0212	<0.01	0.0023 J	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.00035	0.141	<0.0001
	P57-ROX-080612	8/6/2012		43.53	NE	<0.00087 U	<0.005	<0.01	<0.0001	0.0006	<0.005		<0.0001	<0.005	0.0244	0.0326	<0.01	0.0013 J	<0.01	<0.005	<0.005	<0.005	<0.01	0.00053	0.0697 J	<0.0001
	P57-ROX-080612-DUP	8/6/2012		43.53	NE	<0.00089 U	<0.005	<0.01	<0.0001	0.00063	<0.005		<0.0001	<0.005	0.0242	0.0321	<0.01	0.0013 J	<0.01	<0.005	<0.005	<0.005	<0.01	0.00054	0.0921 J	<0.0001
	P57-ROX-110512	11/5/2012		44.98	NE	<0.005	<0.005	<0.01	<0.0001	0.00062	<0.005		0.00005 J	<0.005	0.0249	0.0305	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.00048	0.0547 J	<0.0001
	P57-ROX-012913	1/29/2013		45.92	NE	<0.0059	<0.0059	<0.012	<0.00012	0.00094	<0.0059		<0.00012	<0.0059	0.0369	0.0447	<0.012	<0.012	<0.012	<0.0059	<0.0059	<0.0059	<0.012	0.00074	<0.0059 UJ	<0.00012
	P57-ROX-041113	4/11/2013		46.29	NE	<0.0051	<0.0051	<0.01	<0.0001	0.00076	<0.0051		<0.0001	<0.0051	0.0348	0.0453	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.00074	0.146	<0.0001
	P57-ROX-071613	7/16/2013		43.38	NE	<0.0056	<0.0056	<0.011	0.000038 J	0.0008	<0.0056		<0.00011	<0.0056	0.0267	0.0365	<0.011 UJ	0.0086 J	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.00073	0.164 J	<0.000052 U
	P57-ROX-101413	10/14/2013		44.38	NE	0.00049 J	<0.0054	<0.011	<0.00011	0.00067	<0.0054		<0.00011	<0.0054	0.0252	0.0324	<0.011	<0.011	<0.011	<0.0054	<0.0054 UJ	<0.0054	<0.011	0.00049	0.202	0.000047 J
	P57-ROX-020314	2/3/2014	40.46 - 65.46	46.57	NE	<0.0053	<0.0053	<0.011	<0.00011	0.00062	<0.0053		<0.00011	<0.0053	0.0234	0.0314	<0.011	0.0027 J	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00052	0.168 J	<0.00011

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						SVOCs																			
						Di-n-butyl phthalate	Di-n-octyl phthalate	2,6-Dinitrotoluene	Fluoranthene	Fluorene	Hexachlorobenzene	Indene[6]	Indeno(1,2,3-cd)pyrene	Isophorone (3,5,5-trimethyl-2-cyclohexene-1-one)	1-Methylnaphthalene	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	3 & 4-Methylphenol (m & p-Cresol)	3-Nitroaniline	Nitrobenzene	N-Nitrosodimethylamine	N-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
					Screening Values (mg/L)	0.7 [1]	0.14 [2]	0.00031 [2]	0.28 [1]	0.28 [1]	0.00006 [2]		0.00043 [1]	1.4 [2]	0.49 [3]	0.028 [1]	0.35 [1]	0.35 [3]		0.0035 [2]	0.0006 [3]	0.0032 [2]	0.001 [1]	0.21 [3]	0.1 [1]	0.21 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																			
P-58	P58-ROX-102811	10/28/2011	40.21 - 65.21	37.31	NE	<0.0049	<0.0049	<0.0097	<0.000097	0.0016	<0.0049		<0.000097	<0.0049	0.049	0.0717	<0.0097	0.0347	<0.0097	<0.0049	<0.0049	<0.0049	<0.0097	0.00085	0.137	0.00012
	P58-ROX-011912	1/19/2012		39.73	NE	<0.00057 U	<0.0053	<0.011	0.000047 J	0.0017	<0.0053		<0.00011	<0.0053	0.0639	0.0904	<0.011	0.0171	<0.011 UJ	<0.0053	<0.0053	<0.0053	<0.011	0.00084	0.259	0.00012
	P58-ROX-011912-D	1/19/2012		39.73	NE	<0.00059 U	<0.0053	<0.011	0.000052 J	0.0018	<0.0053		<0.00011	<0.0053	0.0588	0.0821	<0.011	0.0156	<0.011 UJ	<0.0053	<0.0053	<0.0053	<0.011	0.0008	0.225	0.00012
	P58-ROX-050712	5/7/2012		40.90	NE	<0.0051	<0.0051	<0.01	<0.0001	0.0009 J	<0.0051		<0.0001	<0.0051	0.0351 J	0.0435 J	<0.01	0.0181	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.00056 J	0.161	0.0001
	P58-ROX-050712-DUP	5/7/2012		40.90	NE	<0.0052	<0.0052	<0.01	<0.0001	0.00067 J	<0.0052		<0.0001	<0.0052	0.0267 J	0.0338 J	<0.01	0.0122	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.00041 J	0.147	0.000076 J
	P58-ROX-080612	8/6/2012		41.63	NE	<0.00053 U	<0.005	<0.01	0.000068 J	0.0014	<0.005		<0.0001	<0.005	0.0524	0.0691	<0.01	0.0146	<0.01	<0.005	<0.005	<0.005	<0.01	0.001	0.15	<0.0001 UJ
	P58-ROX-080612-DUP	8/6/2012		41.63	NE	<0.00063 U	<0.005	<0.01	0.000066 J	0.0015	<0.005		<0.0001	<0.005	0.0596	0.079	<0.01	0.0195	<0.01	<0.005	<0.005	<0.005	<0.01	0.0011	0.19	0.00021 J
	P58-ROX-110612	11/6/2012		43.09	NE																				
	P58-ROX-121012	12/10/2012		43.09	NE	<0.0054	<0.0054	<0.011	<0.00011	0.0014	<0.0054		<0.00011	<0.0054	0.0616	0.0807	<0.011	0.0124	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00085	0.178	0.00012
	P58-ROX-012213	1/22/2013		44.21	NE	<0.0054	<0.0054	<0.011	0.00024	0.003	<0.0054		0.000072 J	<0.0054	0.068	0.0846	<0.011	0.0198	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.0023	0.208	0.00077
	P58-ROX-041113	4/11/2013		44.40	NE	<0.0054	<0.0054	<0.011	0.00019	0.0022	<0.0054		<0.00011	<0.0054	0.0692	0.0961	<0.011	0.014	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.0021	0.0985	0.00055
	P58-ROX-071613	7/16/2013		41.49	NE	<0.0055	<0.0055	<0.011	0.000071 J	0.0013	<0.0055		<0.00011	<0.0055	0.0544	0.0708	<0.011 UJ	0.0359	<0.011	<0.0055	<0.0055	<0.0055	<0.011	0.00099	0.247	<0.0002 U
	P58-ROX-101413	10/14/2013		42.19	NE	0.00058 J	<0.0054	<0.011	0.000066 J	0.0014	<0.0054		<0.00011	<0.0054	0.0488	0.0628	<0.011	0.0481	<0.011	<0.0054	<0.0054 UJ	<0.0054	<0.011	0.00095	0.213	0.00021
	P58-ROX-020314	2/3/2014	40.21 - 65.21	44.66	NE	<0.0052	<0.0052	<0.01	0.000058 J	0.0011	<0.0052		<0.0001	<0.0052	0.0353	0.0474	<0.01	0.0073 J	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.00069	0.123 J	0.00014
P-59	P59-ROX-102711	10/27/2011	47.91 - 72.91	41.06	NE	<0.0053	<0.0053	<0.011	0.00035	0.0012	<0.0053		<0.00011	<0.0053	0.0121	0.0184	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.002	0.0383	0.00057
	P59-ROX-011912	1/19/2012		42.88	NE	<0.0005 U	<0.0057	<0.011	0.000073 J	0.0008	<0.0057		<0.00011	<0.0057	0.0175	0.0279	0.0045 J	0.0092 J	<0.011 UJ	<0.0057	<0.0057	0.00079 J	<0.011	0.00081	0.0906 J	0.00013
	P59-ROX-011912-DUP	1/19/2012		42.88	NE	<0.00041 U	<0.0051	<0.01	0.000073 J	0.00063	<0.0051		<0.0001	<0.0051	0.0178	0.029	<0.01	0.0076 J	<0.01 UJ	<0.0051	<0.0051	0.00087 J	<0.01	0.00081	0.0646 J	0.00013
	P59-ROX-050912	5/9/2012		44.11	NE	<0.005	<0.005	<0.01	0.000062 J	0.00034	<0.005	0.0056 JN	<0.0001	<0.005	0.0117	0.018	<0.01	0.0062 J	<0.01	<0.005	<0.005	<0.005	<0.01	0.00053	0.0241	0.000092 J
	P59-ROX-080212	8/2/2012		44.07	NE	<0.0053	<0.0053	<0.011	0.00015	0.00048	<0.0053		<0.00011	<0.0053	0.0136	0.0207	0.0018 J	0.0032 J	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.001	0.0419	0.00021
	P59-ROX-110212	11/2/2012		45.98	NE	<0.0053	<0.0053	<0.011	0.000063 J	0.0005	<0.0053		<0.00011	<0.0053	0.0187	0.0282	0.0065 J	0.0137	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00075	0.0766 J	0.00009 J
	P59-ROX-110212-DUP	11/2/2012		45.98	NE	<0.0052	<0.0052	<0.01	0.000066 J	0.00048	<0.0052		<0.0001	<0.0052	0.0179	0.0268	0.0056 J	0.0116	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.00073	0.0656 J	0.000093 J
	P59-ROX-013013	1/30/2013		46.60	NE	0.0022 J	<0.0052	<0.01	<0.000079 U	0.00069	<0.0052		<0.0001	<0.0052	0.0222	0.0305	0.154	0.107	<0.01 UJ	<0.0052	<0.0052 UJ	<0.0052	<0.01	0.001	0.141 J	<0.00011 U
	P59-ROX-041213	4/12/2013		46.95	NE	<0.0054	<0.0054	<0.011	0.000077 J	0.00064	<0.0054		<0.00011	<0.0054	0.0247	0.0369	0.174	0.0842	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.0012	0.119	0.000098 J
	P59-ROX-041213-DUP	4/12/2013		46.95	NE	<0.0053	<0.0053	<0.011	0.000078 J	0.00065	<0.0053		<0.00011	<0.0053	0.0265	0.0383	0.154	0.0794	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.0012	0.101	0.0001 J
	P59-ROX-071613	7/16/2013		44.13	NE	<0.0054	<0.0054	<0.011	0.000061 J	0.00063	<0.0054		<0.00011	<0.0054	0.0189	0.0302	0.17	0.042	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00087	0.121 J	<0.000078 U
	P59-ROX-101013	10/10/2013		45.50	NE	<0.0054	0.00091 J	<0.011	0.00015	0.0007	<0.0054		<0.00011	<0.0054	0.0192	0.0305	0.201	0.0528	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.0014	0.0524	0.00028
	P59-ROX-020314	2/3/2014	47.91 - 72.91	47.35	NE	<0.0052	<0.0052	<0.01	0.00012	0.00067	<0.0052		<0.0001	<0.0052	0.0141	0.0214	0.31 J	0.0142	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.0014	0.0444 J	0.00019
P-66	P66-ROX-110111	11/1/2011	34.72 - 59.72	28.92	NE	<0.005	<0.005	<0.01	0.00017	0.003	<0.005		<0.0001	<0.005	0.093	0.0295	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.0013	<0.005	0.00029
	P66-ROX-051012	5/10/2012		32.48	NE	0.00054 J	<0.005	<0.01	0.000056 J	0.0015	<0.005		<0.0001	<0.005	0.0647	0.025	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.00057	<0.005	0.000082 J
	P66-ROX-080312	8/3/2012		30.51	NE	<0.0053	<0.0053	<0.011	0.000082 J	0.0011	<0.0053		<0.00011	<0.0053	0.0541	0.028	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00057	<0.0053	0.00013
	P66-ROX-103112	10/31/2012		34.75	NE	<0.005	<0.005	<0.01	<0.000051 U	0.0017	<0.005		<0.0001	<0.005	0.0689	0.0268	<0.01	<0.01	<0.01	<0.005	<0.005 UJ	<0.005	<0.01	0.00054	<0.005 UJ	<0.00007 U
	P66-ROX-011813	1/18/2013		35.70	NE	<0.0053	<0.0053	<0.011	0.000076 J	0.0019	<0.0053		<0.00011	<0.0053	0.0655	0.0315	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00082	0.0019 J	0.00011
	P66-ROX-041113	4/11/2013		36.03	NE	<0.0053	<0.0053	<0.011	0.000072 J	0.0017	<0.0053		<0.00011	<0.0053	0.0681	0.0131	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00091	<0.0053	0.000087 J
	P66-ROX-071213	7/12/2013		33.20	NE	<0.0056	<0.0056	<0.011	<0.00019 U	0.0018	<0.0056		0.00017	<0.0056	0.0688	0.0642	<0.011	<0.011	<0.011	<0.0056	<0.0056 UJ	<0.0056	<0.011	0.00088	0.0035 J J	<0.0002 U
	P66-ROX-101013	10/10/2013		33.66	NE	<0.0056	<0.0056	<0.011	0.000052 J	0.0013	<0.0056		<0.00011	<0.0056	0.0571	0.0218	<0.011	0.0034 J	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.0005	<0.0056	0.00009 J
	P66-ROX-110713	11/7/2013		33.66	NE																				
	P66-ROX-012914	1/29/2014	34.72 - 59.72	36.39	NE	<0.0053	<0.0053	<0.011	0.000065 J	0.0016	<0.0053		0.000041 J	<0.0053	0.0701	0.0284	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00077	<0.0053	0.000099 J
P-74	P74-ROX-103111	10/31/2011	44.43 - 69.43	36.26	NE	<0.005	<0.005	<0.01	<0.0001	0.00044	<0.005		<0.0001	<0.005	0.0177	0.0265	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.00025	0.0127	<0.0001
	P74-ROX-011912	1/19/2012		38.77	NE	<0.0048	<0.0048	<0.0095	<0.000095	<0.000095	<0.0048		<0.000095	<0.0048	<0.00019	<0.00019	<0.0095	<0.0095	<0.0095 UJ	<0.0048	<0.0048	<0.0048	<0.0095	<0.000048	0.002 J	<0.000095
	P74-ROX-050712	5/7/2012		39.92	NE	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	0.00016 J	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.000047 J	0.0089	<0.0001
	P74-ROX-080612	8/6/2012		40.71	NE	<0.00082 U	<0.005	<0.01	<0.0001	0.00021	<0.005		<0.0001	<0.005	0.009	0.0103	0.0014 J	0.001 J	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00012 U	0.0158	<0.0001
	P74-ROX-110112	11/1/2012		41.72	NE	<0.0052	<0.0052	<0.01	<0.0001	0.0003	<0.0052		<0.0001	<0.0052	0.0123	0.0136	0.0054 J	0.002 J	<0.01	<0.0052	<0.0052 UJ	<0.0052	<0.01	0.00013	0.0307 J	<0.0001
	P74-ROX-011713	1/17/2013		42.65	NE	<0.0051	<0.0051	<0.01	0.000038 J	0.00038	<0.0051		<0.0001	<0.0051	0.0156	0.0198	<0.01	0.001 J	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.00023	0.0298	0.000048 J
	P74-ROX-041113	4/11/2013		42.83	NE	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0046 U	<0.0001
	P74-ROX-071513	7/15/2013		40.11	NE	<0.0054	<0.0054	<0.011	0.00014	0.00011	<0.0054		<0.00011	<0.0054	0.0019	0.00019 J	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.00008 U	0.008	0.000074 J
	P74-ROX-101413	10/14/2013		41.72	NE	0.00047 J	<0.0054	<0.011	0.00015	0.00025	<0.0054		<0.00011	<0.0054	0.0073	0.0079	<0.011	<0.011	<0.011	<0.0054	<0.0054 UJ	<0.0054	<0.011	0.000079	0.0125	0.000057 J
	P74-ROX-012414	1/24/2014	44.43 - 69.43	43.35	NE	0.00048 J	<0.0051	<0.01	0.000088 J	0.00028	<0.0051		<0.0001	<0.0051	0.0088	0.0106	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.00014 U	0.0278	0.000049 J

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						SVOCs																					
						Di-n-butyl phthalate	Di-n-octyl phthalate	2,6-Dinitrotoluene	Fluoranthene	Fluorene	Hexachlorobenzene	Indene[6]	Indeno(1,2,3-cd)pyrene	Isophorone (3,5,5-trimethyl-2-cyclohexene-1-one)	1-Methylnaphthalene	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	3 & 4-Methylphenol (m & p-Cresol)	3-Nitroaniline	Nitrobenzene	N-Nitrosodimethylamine	N-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
					Screening Values (mg/L)	0.7 [1]	0.14 [2]	0.00031 [2]	0.28 [1]	0.28 [1]	0.00006 [2]		0.00043 [1]	1.4 [2]	0.49 [3]	0.028 [1]	0.35 [1]	0.35 [3]		0.0035 [2]	0.0006 [3]	0.0032 [2]	0.001 [1]	0.21 [3]	0.1 [1]	0.21 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
P-93A	P93A-ROX-050511	5/5/2011	48.17 - 63.17	41.88	NE	<0.001 U	<0.005	<0.01	0.000019 J J	0.00044 J	<0.005		<0.0001 UJ	<0.005	0.0172 J	0.0309 J	<0.01	0.0075 J	<0.01	<0.005 UJ	<0.005	<0.005	<0.01	0.0004 J	0.21	0.000026 J
	P93A-ROX-081811	8/18/2011		39.40	NE	<0.001 U	<0.005	<0.01	<0.000033 U	0.00047	<0.005		<0.0001	<0.005	0.0224	0.0302	<0.01	0.0093 J	<0.01	<0.005	<0.005	<0.005	<0.01	0.00043	0.183	0.000037 J
	P93A-ROX-102611	10/26/2011		39.43	NE	<0.005	<0.005	<0.01	<0.0001	0.00033	<0.005		<0.0001	<0.005	0.0162	0.0258	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.00032	0.193	<0.0001
	P93A-ROX-012012	1/20/2012		41.66	NE	<0.00038 U	<0.0048	<0.0095	<0.000095	<0.000095	<0.0048		<0.000095	<0.0048	0.0133	0.0188	<0.0095	0.0029 J	<0.0095	<0.0048	<0.0048	<0.0048	<0.0095	<0.00022 U	0.234	<0.000095
	P93A-ROX-050812	5/8/2012		42.75	NE	<0.0051	<0.0051	<0.01	<0.0001	0.00021	<0.0051		<0.0001	<0.0051	0.0121	0.0151	<0.01	0.0014 J	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.00021	<0.0051	<0.0001
	P93A-ROX-080912	8/9/2012		43.66	NE	<0.0054	<0.0054	<0.011	<0.00011	0.00021	<0.0054		<0.00011	<0.0054	0.0097	0.013	<0.011	0.00096 J	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00025	0.208	<0.00011
	P93A-ROX-110712	11/7/2012		45.00	NE	<0.0052	<0.0052	<0.01	<0.0001	0.00029	<0.0052		<0.0001	<0.0052	0.015	0.0194	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.00028 B	0.19	<0.0001
	P93A-ROX-110712-DUP	11/7/2012		45.00	NE	<0.0052	<0.0052	<0.01	<0.0001	0.00037	<0.0052		<0.0001	<0.0052	0.016	0.0206	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.00034 B	0.217	<0.0001
	P93A-ROX-012313	1/23/2013		45.89	NE	<0.0052	<0.0052	<0.01	<0.0001	0.00021	<0.0052		<0.0001	<0.0052	0.0096	0.0093	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.00024	0.168	<0.0001
	P93A-ROX-012313-DUP	1/23/2013		45.89	NE	<0.0052	<0.0052	<0.01	<0.0001	0.00019	<0.0052		<0.0001	<0.0052	0.0094	0.009	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.00023	0.165	<0.0001
	P93A-ROX-041113	4/11/2013		46.29	NE	<0.005	<0.005	<0.01	0.000046 J	0.0003	<0.005		<0.0001	<0.005	0.0146 J	0.0098	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.00035	0.2	0.00004 J
	P93A-ROX-041113-DUP	4/11/2013		46.29	NE	<0.005	<0.005	<0.01	<0.0001	0.00025	<0.005		<0.0001	<0.005	0.0146 J	0.0096	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.00024	0.179	<0.0001
	P93A-ROX-071813	7/18/2013		43.25	NE	<0.0056	<0.0056	<0.011	<0.00011	0.00023	<0.0056		<0.00011	<0.0056	0.0089	0.0062	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.00021	0.107	<0.00011
	P93A-ROX-101113	10/11/2013		44.18	NE	<0.005	<0.005	<0.01	<0.0001	0.00028	<0.005		<0.0001	<0.005	0.0128	0.0085	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.00013	0.0837 J	<0.0001
	P93A-ROX-012914	1/29/2014	48.17 - 63.17	46.53	NE	<0.0054	<0.0054	<0.011	<0.00011	0.00032	<0.0054		<0.00011	<0.0054	0.0133	0.0072	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00022 B	0.105	<0.00011
P-93B	P93B-ROX-050511	5/5/2011	74.60 - 76.60	41.96	NE	<0.001 U	<0.005	<0.01	<0.0001 UJ	<0.0001 UJ	<0.005		<0.0001 UJ	<0.005	<0.005 UJ	<0.0002 UJ	<0.01	<0.01	<0.01	<0.005 UJ	<0.005	<0.005	<0.01	0.00017 J J	0.0933	<0.0001
	P93B-ROX-081811	8/18/2011		39.44	NE	<0.00077 U	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	0.116	<0.0001
	P93B-ROX-102611	10/26/2011		39.48	NE	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	0.122	<0.0001
	P93B-ROX-012012	1/20/2012		41.72	NE	<0.0048	<0.0048	<0.0095	<0.000095	<0.000095	<0.0048		<0.000095	<0.0048	<0.00019	<0.00019	<0.0095	<0.0095	<0.0095	<0.0048	<0.0048	<0.0048	<0.0095	<0.000048	0.107	<0.000095
	P93B-ROX-050812	5/8/2012		42.79	NE	<0.0051	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
	P93B-ROX-080912	8/9/2012		43.69	NE	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	0.178	<0.00011
	P93B-ROX-110712	11/7/2012		45.05	NE	<0.0051	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	0.00026	0.00045 B	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	0.13	<0.0001
	P93B-ROX-110712-DUP	11/7/2012		45.05	NE	<0.005	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	0.0003	0.0005 B	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	0.114	<0.0001
	P93B-ROX-012313	1/23/2013		45.89	NE	0.003 J	<0.0053	<0.011	0.00013	0.00012	0.00058 J		0.00012	<0.0053	<0.00021	0.00012 J	<0.011	0.0014 J	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00016	0.176	0.00013
	P93B-ROX-041113	4/11/2013		46.32	NE	0.0013 J	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	0.122	<0.0001
	P93B-ROX-071813	7/18/2013		43.30	NE	0.0005 J	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.000034 J	0.151	<0.00011
	P93B-ROX-101613	10/16/2013		44.43	NE	<0.005	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	0.069	<0.0001
	P93B-ROX-101613-DUP	10/16/2013		44.43	NE	<0.0051	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	0.082	<0.0001
	P93B-ROX-012814	1/28/2014	74.60 - 76.60	46.58	NE	0.00045 J	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.000022 U	0.074	<0.00011
	P93B-ROX-012814-DUP	1/28/2014		46.58	NE	0.00048 J	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000024 U	0.0927	<0.0001
P-93C	P93C-ROX-050611	5/6/2011	94.26 - 96.26	41.84	NE	<0.0011 U	<0.005	<0.01	<0.0001 UJ	<0.0001 UJ	<0.005		<0.0001 UJ	<0.005	<0.005 UJ	0.00009 J J	<0.01	<0.01	<0.01	<0.005 UJ	<0.005	<0.005	<0.01	<0.00005 UJ	0.0144	<0.0001
	P93C-ROX-081811	8/18/2011		39.32	NE	<0.00064 U	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.000033 U	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	0.0046 J	<0.0001
	P93C-ROX-102611	10/26/2011		39.36	NE	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
	P93C-ROX-012012	1/20/2012		41.57	NE	<0.0051	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
	P93C-ROX-050812	5/8/2012		42.68	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
	P93C-ROX-080912	8/9/2012		43.57	NE	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
	P93C-ROX-110812	11/8/2012		45.12	NE	<0.005	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	P93C-ROX-012313	1/23/2013		45.78	NE	0.0025 J	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011
	P93C-ROX-041213	4/12/2013		46.21	NE	<0.005	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005 UJ	<0.005	<0.01	<0.00005	<0.005	<0.0001
	P93C-ROX-071813	7/18/2013		43.31	NE	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.000026 J	0.0352	<0.00011
	P93C-ROX-080813	8/8/2013		43.31	NE																					
	P93C-ROX-101613	10/16/2013		44.31	NE	<0.0051	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	0.005 J	<0.0001
	P93C-ROX-012414	1/24/2014	94.26 - 96.26	46.44	NE	0.00051 J	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
P-93D	P93D-ROX-050511	5/5/2011	125.75 - 127.75	41.96	NE	<0.0011 U	<0.005	<0.01	<0.0001 UJ	<0.0001 UJ	<0.005		<0.0001 UJ	<0.005	<0.005 UJ	0.000045 J J	<0.01	<0.01	<0.01	<0.005 UJ	<0.005	<0.005	<0.01	<0.00005 UJ	<0.005	<0.0001
	P93D-ROX-081811	8/18/2011		39.46	NE	<0.0011 U	<0.005	<0.01	<0.000023 U	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.000042 U	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	0.000021 J
	P93D-ROX-102711	10/27/2011		39.59	NE	<0.005	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	P93D-ROX-012012	1/20/2012		41.77	NE	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00006 U	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
	P93D-ROX-050812	5/8/2012		42.96	NE	<0.0051	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
	P93D-ROX-080812	8/8/2012		43.71	NE	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	0.0004	<0.00042 U	0.00076 J	0.0011 J	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.000054	<0.0052	<0.0001
	P93D-ROX-110812	11/8/2012		NM	NE	<0.0055	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011
	P93D-ROX-012213	1/22/2013		44.21	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	0.00027	0.00036	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.000042 J	<0.0053	<0.00011
	P93D-ROX-041113	4/11/2013		46.37	NE	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0087 U	<0.0001
	P93D-ROX-071213	7/12/2013		43.51	NE	0.00045 J	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.000059 U	<0.011	<0.011	<0.011	<0.0056	<0.0056 UJ	<0.0056	<0.011	<0.000056	<0.0056 UJ	<0.00011
	P93D-ROX-101113	10/11/2013		44.24	NE	<0.005	<0.005	<0.01	0.000087 J	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01 UJ	<0.01 UJ	<0.01	<0.005	<0.005	<0.005	<0.01 UJ	<0.00005	<0.005 UJ	0.000084 J
	P93D-ROX-013114	1/31/2014	125.75 - 127.75	46.62	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000024 U	<0.0053	<0.00011

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

						SVOCs																				
						Di-n-butyl phthalate	Di-n-octyl phthalate	2,6-Dinitrotoluene	Fluoranthene	Fluorene	Hexachlorobenzene	Indene[6]	Indeno(1,2,3-cd)pyrene	Isophorone (3,5,5-trimethyl-2-cyclohexene-1-one)	1-Methylnaphthalene	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	3 & 4-Methylphenol (m & p-Cresol)	3-Nitroaniline	Nitrobenzene	N-Nitrosodimethylamine	N-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
					Screening Values (mg/L)	0.7 [1]	0.14 [2]	0.00031 [2]	0.28 [1]	0.28 [1]	0.00006 [2]		0.00043 [1]	1.4 [2]	0.49 [3]	0.028 [1]	0.35 [1]	0.35 [3]		0.0035 [2]	0.0006 [3]	0.0032 [2]	0.001 [1]	0.21 [3]	0.1 [1]	0.21 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
P-114	P114-ROX-102811	10/28/2011	32.67 - 52.67	24.73	NE	<0.0048	<0.0048	<0.0095	<0.000095	<0.000095	<0.0048		<0.000095	<0.0048	<0.00019	<0.00019	<0.0095	<0.0095	<0.0095	<0.0048	<0.0048	<0.0048	<0.0095	<0.000048	<0.0048	<0.000095
	P114-ROX-012012	1/20/2012		27.17	NE	<0.0051	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		0.000066 J	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
	P114-ROX-050912	5/9/2012		28.09	NE	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.00005	<0.0052	<0.0001
	P114-ROX-080912	8/9/2012		29.13	NE	<0.005	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	P114-ROX-110912	11/9/2012		30.90	NE	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
	P114-ROX-012313	1/23/2013		30.22	NE	0.0024 J	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
	P114-ROX-041513	4/15/2013		31.80	NE	0.00047 J	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
	P114-ROX-071813	7/18/2013		27.22	NE	<0.0055	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		0.000071 J	<0.0055	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	0.000059	<0.0055	<0.00011
	P114-ROX-071813-DUP	7/18/2013		27.22	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.000052 J	<0.0053	<0.00011
	P114-ROX-101713	10/17/2013		29.43	NE	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
	P114-ROX-012814	1/28/2014	32.67 - 52.67	32.11	NE	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00015 B	<0.0054	<0.00011
ROST-3-PZ	ROST3PZ-ROX-051412	5/14/2012	40.00 - 50.00	38.82	NE	<0.00043 U	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	0.0002 J	0.00017 J	<0.01	0.0087 J	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.000043 J	<0.0052	<0.0001
	ROST3PZ-ROX-080712	8/7/2012		39.00	NE	0.0049 J	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	0.00031	0.00038 J	<0.011	0.0056 J	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
	ROST3PZ-ROX-110112	11/1/2012		40.82	NE	0.0017 J	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	0.00028	0.00031	<0.011	0.0019 J	<0.011	<0.0053	<0.0053 UJ	<0.0053	<0.011	<0.000053	<0.0053 UJ	<0.00011
ROST-3-MW	ROST3MW-ROX-012313	1/23/2013	37.81 - 47.81	41.50	NE	<0.005	<0.005	<0.01	<0.0001	0.00031	<0.005		<0.0001	<0.005	0.0061	0.0087	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.00068	<0.005	<0.0001
	ROST3MW-ROX-040513	4/5/2013				0.00044 J	<0.0054	<0.011	<0.00011	0.00017	<0.0054		<0.00011	<0.0054	0.0029	0.0039	<0.011	<0.011	<0.011	<0.0054	<0.0054 UJ	<0.0054	<0.011	0.00055	<0.0054 UJ	<0.00011
	ROST3MW-ROX-071113	7/11/2013		39.50	NE	<0.0054	<0.0054	<0.011	<0.00011	0.00043	<0.0054		<0.00011	<0.0054	0.0105 J	0.0142	<0.011 UJ	<0.011 UJ		<0.0054	<0.0054	<0.0054	<0.011 UJ	0.00073	<0.0054 UJ	<0.000044 U
	ROST3-MW-ROX-100913	10/9/2013		40.16	NE	<0.0054	<0.0054	<0.011	<0.00011	0.00012	<0.0054		<0.00011	<0.0054	0.0024	0.0026	<0.011 UJ	<0.011 UJ	<0.011	<0.0054	<0.0054	<0.0054	<0.011 UJ	0.00014	<0.0054 UJ	0.000044 J
	ROST3MW-ROX-011714	1/17/2014	37.81 - 47.81	42.20	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	0.0011	0.00099	<0.011 UJ	<0.011 UJ	<0.011	<0.0053	<0.0053	<0.0053	<0.011 UJ	0.0002	<0.0053 UJ	<0.00011
ROST-4-PZ(C)	ROST4PZ-C-051412	5/14/2012	34.95 - 44.95	39.04	NE	<0.00058 U	<0.005	<0.01	<0.0001	0.00022	<0.005		<0.0001	<0.005	0.0044	0.0049	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.00082	<0.005	0.000041 J
	ROST4PZ-C-ROX-072512	7/25/2012		39.10	NE	0.0015 J	<0.0053	<0.011	<0.000041 U	0.00032 B	<0.0053		<0.00011	<0.0053	0.0102	0.0136	<0.011	0.00098 J	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.0014	0.0023 J	<0.000081 U
	ROST4PZC-ROX-102912	10/29/2012		40.75	NE	0.0018 J	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	0.0004	0.00041	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.0002	<0.0052	<0.0001
	ROST4PZ(C)-ROX-011113	1/11/2013		41.42	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	0.000064 J	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00012	<0.0053	<0.00011
	ROST4PZC-ROX-041013	4/10/2013		42.27	NE	<0.0055	<0.0055	<0.011	<0.00011	0.000069 J	<0.0055		<0.00011	<0.0055	0.00062	0.000078 J	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	0.00018	<0.0055 U	<0.00011
	ROST4PZC-ROX-071113	7/11/2013		40.18	NE	<0.0054	<0.0054	<0.011	0.000099 J	0.00027	<0.0054		<0.00011	<0.0054	0.0027 J	0.0021	<0.011	<0.011	<0.011 UJ	<0.0054	<0.0054	<0.0054	<0.011	0.00052	0.00057 J J	<0.00009 U
	ROST4PZC-ROX-100913	10/9/2013		39.91	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	0.002	0.00095	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.0002	<0.0053	<0.00011
	ROST4PZC-ROX-011714	1/17/2014	34.95 - 44.95	41.92	NE	<0.0059	<0.0059	<0.012	<0.00012	<0.00012	<0.0059		<0.00012	<0.0059	0.00019 J	<0.00024	<0.01 UJ	<0.01 UJ	<0.012	<0.0059	<0.0059	<0.0059	<0.01 UJ	0.000077	<0.005 UJ	<0.00012
T-12	T12-ROX-102711	10/27/2011	46.72 - 72.72	38.54	NE	<0.0051	<0.0051	<0.01	<0.0001	0.0006	<0.0051		<0.0001	<0.0051	0.0264	0.0415	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.0015	0.0167	0.0001
	T12-ROX-011912	1/19/2012		41.0	NE	<0.00048 U	<0.0056	<0.011	0.000044 J	0.00043	<0.0056		0.000061 J	<0.0056	0.0158	0.0186	0.00091 J	<0.011	<0.011 UJ	<0.0056	<0.0056	<0.0056	<0.011	0.00054	0.0188	0.000067 J
	T12-ROX-050912	5/9/2012		42.62	NE	<0.005	<0.005	<0.01	<0.0001	0.00024	<0.005		<0.0001	<0.005	0.0164	0.0254	<0.01	0.0026 J	<0.01	<0.005	<0.005	<0.005	<0.01	0.00062	0.0094	0.000039 J
	T12-ROX-080212	8/2/2012		41.92	NE	<0.0054	<0.0054	<0.011	0.000046 J	0.00029	<0.0054		<0.00011	<0.0054	0.0199	0.0294	0.0021 J	0.0027 J	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00089	0.042	0.000062 J
	T12-ROX-110512	11/5/2012		43.91	NE	<0.005	<0.005	<0.01	<0.0001	0.00031	<0.005		<0.0001	<0.005	0.0232	0.0354	0.00096 J	0.0015 J	<0.01	<0.005	<0.005	<0.005	<0.01	0.00083	<0.005 UJ	0.000048 J
	T12-ROX-011813	1/18/2013		44.50	NE	<0.0053	<0.0053	<0.011	<0.00011	0.00046	<0.0053		<0.00011	<0.0053	0.0241	0.0322	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.0011	0.0265	0.000067 J
	T12-ROX-041513	4/15/2013		44.99	NE	<0.0051	<0.0051	<0.01	<0.0001	0.00037	<0.0051		<0.0001	<0.0051	0.0289	0.0444	0.0047 J	0.0042 J	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.0011	0.0149	0.000063 J
	T12-ROX-071613	7/16/2013		42.33	NE	<0.0054	<0.0054	<0.011	0.000044 J	0.00034	<0.0054		<0.00011	<0.0054	0.0236	0.0331	0.0029 J J	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.0011	0.0514 J	<0.00009 U
	T12-ROX-101513	10/15/2013		43.73	NE	<0.0054	<0.0054	<0.011	<0.00011	0.00029	<0.0054		<0.00011	<0.0054	0.0199	0.0319	0.0018 J	0.0032 J	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00077	0.0083	0.00009 J
	T12-ROX-012414	1/24/2014	46.72 - 72.72	45.26	NE	0.00044 J	<0.0051	<0.01	<0.0001	0.00035	<0.0051		<0.0001	<0.0051	0.0215	0.0326	0.0022 J	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.001	0.0498	0.00006 J

Notes:

[1] Denotes screening critieria source from 35 I.A.C. 620, Subpart D.

[2] Denotes screening critieria source from 35 I.A.C. 742 (TACO), Appendix B, Table E.

[3] Denotes screening criteria source from IL EPA Toxicity Assessment Unit (Chemicals not in TACO, Tier 1 Tables).

[4] Beginning in 4Q12, naphthalene was analyzed via 8260 VOC, and prior historic results were reported by PAH analysis.

[5] Beginning in 4Q13, professional judgement criteria used to review common laboratory contaminants were reevaluated. Acetone, 2-butanone, and methylene chloride are only U-qualified when present in the method blank.

[6] The laboratory was has been requested to perform a l brary search in all samples for butane, hexane, isopentane, 1,2,3-trimethylbenzene, and indene, which are reported as Tentatively Identified Compounds (TICs), when identified.

Indicates a historical exceedance of screening criteria.

Indicates a current exceedance of screening criteria.

Empty cell without a value indicates previous quarter analyte result was rejected, the analyte was not analyzed, or the TIC was not identified.

LABORATORY QUALIFIERS

B = Target analyte or common lab contaminant was identified in the method blank indicating poss ble field or lab contamination.

D = The result is from a diluted sample.

J = The analyte was detected below the reporting limit. Result is estimated.

URS QUALIFIERS

J = The result is estimated.

UJ = Estimated non-detect.

U = Result is non-detect.

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e-Hardcopy 2.0
Automated Report

Technical Report for

Shell Oil

URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana,

SGS Accutest Job Number: MC27657

Sampling Date: 01/14/14



Report to:

AECOM, INC.

Melissa.mansker@aecom.com

ATTN: Melissa Mansker

Total number of pages in report: 164

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

H. (Brad) Madadian
Lab Director

Client Service contact: Jeremy Vienneau 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO (MA00136) MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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Test results relate only to samples analyzed.

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SGS ACCUTEST

October 28, 2016

AECOM
1001 Highlands Plaza Drive West Suite 300
St. Louis, MO 63110

RE: SGS Accutest Job # MC27657

Dear Elizabeth Kunkel

As you are aware, SGS Accutest Inc. - Marlborough has been conducting an extensive review of data associated with some historical Gas Chromatography-Mass Spectroscopy volatiles analyses. As a result of this review it was determined that some revisions of the original test report for this job were needed. These corrections have been incorporated into the revised report.

Please be assured that corrective actions have been put in place to address this matter and prevent a recurrence.

We apologize for any inconvenience that this issue may have caused. Please don't hesitate to contact us if we can be of further assistance.

Sincerely,

H. (Brad) Madadian

Regional Laboratory Director
SGS Accutest Inc. - Marlborough

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.

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Sample Summary

Shell Oil

Job No: MC27657

URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample Number	Collected Date	Time By	Received	Matrix Code	Matrix Type	Client Sample ID
MC27657-1	01/14/14	14:35	01/15/14	AQ	Ground Water	MW1-ROX-011414
MC27657-2	01/14/14	14:55	01/15/14	AQ	Ground Water	MW9-ROX-011414-EB
MC27657-3	01/14/14	15:30	01/15/14	AQ	Ground Water	MW9-ROX-011414
MC27657-4	01/14/14	00:00	01/15/14	AQ	Trip Blank Water	TB-ROX-011414-HCL
MC27657-5	01/14/14	00:00	01/15/14	AQ	Trip Blank Water	TB-ROX-011414-ST

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: She O **Job No** MC27657

Site: URSMOSTL:Roxana Q 4 GW/ 2 562973 0300 900 South Centra **Report Date** 0/28/20 6 0: 5:46 A

3 Samp e(s), 2 Tr p B ank(s) and 0 F e d B ank(s) were co ected on 0 / 4/20 4 and were rece ved at SGS Accutest New Eng and on 0 / 5/20 4 proper y preserved, at 0 4 Deg C and ntact These Samp es rece ved a job number of MC27657 A st ng of the Laboratory Samp e ID, C ent Samp e ID and dates of co ect on are presented n the Resu ts Summary Sect on of th s repo t - Ch orohexane, Benzeneth o , D benz(a,h)acr d ne, Indene and Qu no ne were searched n the brary search and reported on y f detect ons were found

Except as noted be ow, a method spec f ed ca brat ons and qua ty contro performance cr ter a were met for th s job For more nformat on, p ease refer to QC summary pages

Volatiles by GCMS By Method SW846 8260C

Matrix: AQ **Batch ID:** MSV 025

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC27652-9MS, MC27652-9MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a
- B ank Sp ke Recove y(s) for 2-Ch oroethy v ny ether, Acro e n are outs de contro m ts
- Matr x Sp ke Recovery(s) for 2-Ch oroethy v ny ether, Acetone, Naphtha ene are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference
- Matr x Sp ke Dup cate Recovery(s) for ,2,4-Tr ch orobenzene, 2-Ch oroethy v ny ether, Acetone are outs de contro m ts Probab e cause due to matr x nterference
- Isopropy benzene, ,3,5-Tr methy benzene: Cont nu ng Ca brat on outs de of acceptance cr ter a Samp e resu t may be b ased h gh
- MSV 025-BS for 2-Ch oroethy v ny ether: Outs de contro m ts Assoc ated samp es are non-detect for th s compound
- Acro e n, 2-ch oroethy v ny ether cont nu ng check standard b ased h gh, assoc ated samp es are non-detect

Matrix: AQ **Batch ID:** MSV 026

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC27677- MS, MC27677- MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a
- B ank Sp ke Recove y(s) for 2-Ch oroethy v ny ether, Acro e n are outs de contro m ts
- Matr x Sp ke Recovery(s) for 2-Ch oroethy v ny ether, Acetone, Acro e n are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference
- Matr x Sp ke Dup cate Recovery(s) for ,2,4-Tr ch orobenzene, 2-Ch oroethy v ny ether, Acetone, Acro e n are outs de contro m ts Probab e cause due to matr x nte ference
- MSV 026-BS for 2-Ch oroethy v ny ether: Outs de contro m ts Assoc ated samp es are non-detect for th s compound
- Acro e n, 2-ch oroethy v ny ether cont nu ng check standard b ased h gh, assoc ated samp es are non-detect

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP36543

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC27500-3MS, MC27500-3MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a
- B ank Sp ke Recove y(s) for D methy phtha ate, Hexach orocyc opentad ene are outs de contro m ts
- Matr x Sp ke Recovery(s) for D methy phtha ate, Hexach orocyc opentad ene are outs de contro m ts Probab e cause due to matr x nterference
- Matr x Sp ke Dup cate Recovery(s) for Hexach orocyc opentad ene, D methy phtha ate are outs de contro m ts Probab e cause due to matr x nterference
- RPD(s) for MSD for D methy phtha ate are outs de contro m ts for samp e OP36543-MSD Probab e cause due to samp e homogene ty
- MC27657- : Conf rmat on run
- MC27657- for 2-F uoropheno , Pheno -d5: Outs de contro m ts due to poss b e matr x nterference Conf rmed by re-extract on/reana ys s
- MC27657- for 2,4,6-Tr bromopheno : Outs de contro m ts due to poss b e matr x nterference
- MC27657-3 for 2-F uoropheno , Pheno -d5, 2,4,6-Tr bromopheno : Outs de contro m ts due to poss b e matr x nterference Conf rmed by re-extract on/reana ys s

Matrix: AQ **Batch ID:** OP36620

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC27500- 5MS, MC27500- 5MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a
- B ank Sp ke Recove y(s) for b s(2-Ch oro sopropy)ether, 4-N tropheno are outs de contro m ts
- Matr x Sp ke Recovery(s) for b s(2-Ch oro sopropy)ether are outs de contro m ts Probab e cause due to matr x nterference
- Matr x Sp ke Dup cate Recovery(s) for 4-N tropheno , b s(2-Ch oro sopropy)ether are outs de contro m ts Probab e cause due to matr x nte ference
- MC27657-3: Conf rmat on run
- MC27657-3 for 2,4,6-Tr bromopheno , 2-F uoropheno , Pheno -d5: Outs de contro m ts due to poss b e matr x nterference Conf rmed by re-extract on/reana ys s
- OP36620-MS for 2,4,6-Tr bromopheno : Outs de contro m ts due to poss b e matr x nterference
- OP36620-MS/MSD for 2,4,6-Tr bromopheno : Outs de contro m ts due to poss b e matr x nterference
- MC27657- for 2-F uoropheno , Pheno -d5: Outs de contro m ts due to poss b e matr x nterference Conf rmed by re-extract on/reana ys s
- OP36620-BS/MS/MSD for b s(2-Ch oro sopropy)ether: Outs de contro m ts Assoc ated samp es are non-detect for th s compound

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP36544

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC27500-4MS, MC27500-4MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a

Volatiles by GC By Method SW846 8011

Matrix: AQ **Batch ID:** OP36542

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC27500- MS, MC27500- MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a
- Matr x Sp ke Recovery(s) for ,2-D bromo-3-ch oropropane are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference
- Matr x Sp ke Dup cate Recovery(s) for ,2-D bromo-3-ch oropropane are outs de contro m ts Probab e cause due to matr x nterference

SGS Accutest New Eng and ce t f es that a ana ys s were performed w th n method spec f cat on It s further recommended that th s report to be used n ts ent rety The Laborato y D rector for SGS Accutest New Eng and or ass gnee as ver f ed by the s gnature on the cover page has author zed the re ease of th s report(MC27657)

Summary of Hits

Job Number: MC27657
Account: Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL
Collected: 01/14/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC27657-1	**MW1-ROX-011414**					
Methyl Tert Butyl Ether		1.8	1.0	0.43	ug/l	SW846 8260C
Phenanthrene		0.031 J	0.053	0.013	ug/l	SW846 8270D BY SIM
MC27657-2	**MW9-ROX-011414-EB**					
No hits reported in this sample.						
MC27657-3	**MW9-ROX-011414**					
No hits reported in this sample.						
MC27657-4	**TB-ROX-011414-HCL**					
Acetone		4.6 J	10	2.8	ug/l	SW846 8260C
MC27657-5	**TB-ROX-011414-ST**					
No hits reported in this sample.						

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW1-ROX-011414		
Lab Sample ID:	MC27657-1	**Date Sampled:**	01/14/14
Matrix:	AQ - Ground Water	**Date Received:**	01/15/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V27157.D	1	01/17/14	AMY	n/a	n/a	MSV1026
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW1-ROX-011414		
Lab Sample ID:	MC27657-1	**Date Sampled:**	01/14/14
Matrix:	AQ - Ground Water	**Date Received:**	01/15/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
123-91-1	1,4-Dioxane	ND	25	16	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.8	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.70	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW1-ROX-011414		
Lab Sample ID:	MC27657-1	**Date Sampled:**	01/14/14
Matrix:	AQ - Ground Water	**Date Received:**	01/15/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		70-130%
2037-26-5	Toluene-D8	97%		70-130%
460-00-4	4-Bromofluorobenzene	105%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW1-ROX-011414		
Lab Sample ID:	MC27657-1	**Date Sampled:**	01/14/14
Matrix:	AQ - Ground Water	**Date Received:**	01/15/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W17416.D	1	01/28/14	KR	01/21/14	OP36620	MSW765
Run #2 [a]	R36590.D	1	01/21/14	KR	01/16/14	OP36543	MSR1348

	Initial Volume	Final Volume
Run #1	940 ml	1.0 ml
Run #2	940 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.3	0.41	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.52	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.35	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	1.3	ug/l	
95-48-7	2-Methylphenol	ND	11	1.4	ug/l	
	3&4-Methylphenol	ND	11	2.2	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.53	ug/l	
100-02-7	4-Nitrophenol	ND	21	0.62	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.3	ug/l	
108-95-2	Phenol	ND	5.3	0.54	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.61	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.34	ug/l	
62-53-3	Aniline	ND	11	0.68	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	0.22	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.3	0.91	ug/l	
100-51-6	Benzyl Alcohol	ND	11	0.61	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	0.98	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.27	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	0.22	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	0.25	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	0.14	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	0.21	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.3	0.69	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.72	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.68	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	0.53	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.17	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.3	0.41	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.3	0.46	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW1-ROX-011414		
Lab Sample ID:	MC27657-1	**Date Sampled:**	01/14/14
Matrix:	AQ - Ground Water	**Date Received:**	01/15/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.3	0.53	ug/l	
131-11-3	Dimethyl phthalate	ND	5.3	0.53	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.52	ug/l	
118-74-1	Hexachlorobenzene	ND	5.3	0.32	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.7	ug/l	
67-72-1	Hexachloroethane	ND	5.3	0.47	ug/l	
78-59-1	Isophorone	ND	5.3	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.30	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.53	ug/l	
100-01-6	4-Nitroaniline	ND	11	4.6	ug/l	
98-95-3	Nitrobenzene	ND	5.3	0.26	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.3	0.53	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	0.86	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.58	ug/l	
110-86-1	Pyridine	ND	11	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	3% [b]	2% [b]	15-110%
4165-62-2	Phenol-d5	6% [b]	5% [b]	15-110%
118-79-6	2,4,6-Tribromophenol	44%	12% [c]	15-110%
4165-60-0	Nitrobenzene-d5	75%	71%	30-130%
321-60-8	2-Fluorobiphenyl	80%	57%	30-130%
1718-51-0	Terphenyl-d14	97%	79%	30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

(a) Confirmation run.
(b) Outside control limits due to possible matrix interference. Confirmed by re-extraction/reanalysis.
(c) Outside control limits due to possible matrix interference.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW1-ROX-011414		
Lab Sample ID:	MC27657-1	**Date Sampled:**	01/14/14
Matrix:	AQ - Ground Water	**Date Received:**	01/15/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R36571.D	1	01/20/14	KR	01/16/14	OP36544	MSR1346
Run #2							

	Initial Volume	Final Volume
Run #1	940 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.11	0.073	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.053	ug/l	
120-12-7	Anthracene	ND	0.11	0.098	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.053	0.021	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.031	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.053	0.034	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.029	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.041	ug/l	
218-01-9	Chrysene	ND	0.11	0.025	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.034	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.043	ug/l	
86-73-7	Fluorene	ND	0.11	0.11	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.033	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.21	0.053	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.21	0.079	ug/l	
85-01-8	Phenanthrene	0.031	0.053	0.013	ug/l	J
129-00-0	Pyrene	ND	0.11	0.041	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	71%		30-130%
321-60-8	2-Fluorobiphenyl	58%		30-130%
1718-51-0	Terphenyl-d14	74%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW1-ROX-011414		
Lab Sample ID:	MC27657-1	**Date Sampled:**	01/14/14
Matrix:	AQ - Ground Water	**Date Received:**	01/15/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB53823.D	1	01/17/14	CZ	01/16/14	OP36542	GBB3144
Run #2							

	Initial Volume	Final Volume
Run #1	35.8 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0053	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	74%		36-173%
460-00-4	Bromofluorobenzene (S)	84%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW9-ROX-011414-EB		
Lab Sample ID:	MC27657-2	**Date Sampled:**	01/14/14
Matrix:	AQ - Ground Water	**Date Received:**	01/15/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V27158.D	1	01/17/14	AMY	n/a	n/a	MSV1026
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	

ND = Not detected MDL = Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW9-ROX-011414-EB		
Lab Sample ID:	MC27657-2	**Date Sampled:**	01/14/14
Matrix:	AQ - Ground Water	**Date Received:**	01/15/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
123-91-1	1,4-Dioxane	ND	25	16	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.70	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

ND = Not detected MDL = Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW9-ROX-011414-EB		
Lab Sample ID:	MC27657-2	**Date Sampled:**	01/14/14
Matrix:	AQ - Ground Water	**Date Received:**	01/15/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		70-130%
2037-26-5	Toluene-D8	97%		70-130%
460-00-4	4-Bromofluorobenzene	104%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW9-ROX-011414-EB		
Lab Sample ID:	MC27657-2	**Date Sampled:**	01/14/14
Matrix:	AQ - Ground Water	**Date Received:**	01/15/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R36591.D	1	01/21/14	KR	01/16/14	OP36543	MSR1348
Run #2							

	Initial Volume	Final Volume
Run #1	940 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.3	0.41	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.52	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.35	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	1.3	ug/l	
95-48-7	2-Methylphenol	ND	11	1.4	ug/l	
	3&4-Methylphenol	ND	11	2.2	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.53	ug/l	
100-02-7	4-Nitrophenol	ND	21	0.62	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.3	ug/l	
108-95-2	Phenol	ND	5.3	0.54	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.61	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.34	ug/l	
62-53-3	Aniline	ND	11	0.68	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	0.22	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.3	0.91	ug/l	
100-51-6	Benzyl Alcohol	ND	11	0.61	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	0.98	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.27	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	0.22	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	0.25	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	0.14	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	0.21	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.3	0.69	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.72	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.68	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	0.53	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.17	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.3	0.41	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.3	0.46	ug/l	

ND = Not detected MDL = Method Detection Limit
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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW9-ROX-011414-EB		
Lab Sample ID:	MC27657-2	**Date Sampled:**	01/14/14
Matrix:	AQ - Ground Water	**Date Received:**	01/15/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.3	0.53	ug/l	
131-11-3	Dimethyl phthalate	ND	5.3	0.53	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.52	ug/l	
118-74-1	Hexachlorobenzene	ND	5.3	0.32	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.7	ug/l	
67-72-1	Hexachloroethane	ND	5.3	0.47	ug/l	
78-59-1	Isophorone	ND	5.3	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.30	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.53	ug/l	
100-01-6	4-Nitroaniline	ND	11	4.6	ug/l	
98-95-3	Nitrobenzene	ND	5.3	0.26	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.3	0.53	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	0.86	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.58	ug/l	
110-86-1	Pyridine	ND	11	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	29%		15-110%
4165-62-2	Phenol-d5	20%		15-110%
118-79-6	2,4,6-Tribromophenol	42%		15-110%
4165-60-0	Nitrobenzene-d5	53%		30-130%
321-60-8	2-Fluorobiphenyl	39%		30-130%
1718-51-0	Terphenyl-d14	79%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW9-ROX-011414-EB		
Lab Sample ID:	MC27657-2	**Date Sampled:**	01/14/14
Matrix:	AQ - Ground Water	**Date Received:**	01/15/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R36572.D	1	01/20/14	KR	01/16/14	OP36544	MSR1346
Run #2							

	Initial Volume	Final Volume
Run #1	940 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.11	0.073	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.053	ug/l	
120-12-7	Anthracene	ND	0.11	0.098	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.053	0.021	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.031	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.053	0.034	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.029	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.041	ug/l	
218-01-9	Chrysene	ND	0.11	0.025	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.034	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.043	ug/l	
86-73-7	Fluorene	ND	0.11	0.11	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.033	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.21	0.053	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.21	0.079	ug/l	
85-01-8	Phenanthrene	ND	0.053	0.013	ug/l	
129-00-0	Pyrene	ND	0.11	0.041	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	54%		30-130%
321-60-8	2-Fluorobiphenyl	40%		30-130%
1718-51-0	Terphenyl-d14	74%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW9-ROX-011414-EB		
Lab Sample ID:	MC27657-2	**Date Sampled:**	01/14/14
Matrix:	AQ - Ground Water	**Date Received:**	01/15/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB53824.D	1	01/17/14	CZ	01/16/14	OP36542	GBB3144
Run #2							

	Initial Volume	Final Volume
Run #1	35.6 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0053	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	61%		36-173%
460-00-4	Bromofluorobenzene (S)	71%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW9-ROX-011414		
Lab Sample ID:	MC27657-3	**Date Sampled:**	01/14/14
Matrix:	AQ - Ground Water	**Date Received:**	01/15/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V27159.D	1	01/17/14	AMY	n/a	n/a	MSV1026
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW9-ROX-011414		
Lab Sample ID:	MC27657-3	**Date Sampled:**	01/14/14
Matrix:	AQ - Ground Water	**Date Received:**	01/15/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
123-91-1	1,4-Dioxane	ND	25	16	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.70	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW9-ROX-011414		
Lab Sample ID:	MC27657-3	**Date Sampled:**	01/14/14
Matrix:	AQ - Ground Water	**Date Received:**	01/15/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		70-130%
2037-26-5	Toluene-D8	97%		70-130%
460-00-4	4-Bromofluorobenzene	103%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW9-ROX-011414		
Lab Sample ID:	MC27657-3	**Date Sampled:**	01/14/14
Matrix:	AQ - Ground Water	**Date Received:**	01/15/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R36592.D	1	01/21/14	KR	01/16/14	OP36543	MSR1348
Run #2 [a]	W17417.D	1	01/28/14	KR	01/21/14	OP36620	MSW765

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2	930 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.3	0.40	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.52	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.35	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	1.3	ug/l	
95-48-7	2-Methylphenol	ND	11	1.4	ug/l	
	3&4-Methylphenol	ND	11	2.1	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.53	ug/l	
100-02-7	4-Nitrophenol	ND	21	0.61	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.3	ug/l	
108-95-2	Phenol	ND	5.3	0.54	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.60	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.33	ug/l	
62-53-3	Aniline	ND	11	0.67	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	0.21	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.3	0.90	ug/l	
100-51-6	Benzyl Alcohol	ND	11	0.61	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	0.97	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.26	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	0.22	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	0.24	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	0.14	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	0.21	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.3	0.69	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.71	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.68	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	0.53	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.3	0.41	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.3	0.46	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW9-ROX-011414		
Lab Sample ID:	MC27657-3	**Date Sampled:**	01/14/14
Matrix:	AQ - Ground Water	**Date Received:**	01/15/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.3	0.53	ug/l	
131-11-3	Dimethyl phthalate	ND	5.3	0.53	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.51	ug/l	
118-74-1	Hexachlorobenzene	ND	5.3	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.6	ug/l	
67-72-1	Hexachloroethane	ND	5.3	0.46	ug/l	
78-59-1	Isophorone	ND	5.3	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.29	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.53	ug/l	
100-01-6	4-Nitroaniline	ND	11	4.6	ug/l	
98-95-3	Nitrobenzene	ND	5.3	0.26	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.3	0.53	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	0.85	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.57	ug/l	
110-86-1	Pyridine	ND	11	0.54	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	1% [b]	2% [b]	15-110%
4165-62-2	Phenol-d5	4% [b]	5% [b]	15-110%
118-79-6	2,4,6-Tribromophenol	3% [b]	7% [b]	15-110%
4165-60-0	Nitrobenzene-d5	80%	74%	30-130%
321-60-8	2-Fluorobiphenyl	64%	77%	30-130%
1718-51-0	Terphenyl-d14	83%	93%	30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

(a) Confirmation run.
(b) Outside control limits due to possible matrix interference. Confirmed by re-extraction/reanalysis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW9-ROX-011414		
Lab Sample ID:	MC27657-3	**Date Sampled:**	01/14/14
Matrix:	AQ - Ground Water	**Date Received:**	01/15/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R36573.D	1	01/20/14	KR	01/16/14	OP36544	MSR1346
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.11	0.073	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.052	ug/l	
120-12-7	Anthracene	ND	0.11	0.097	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.053	0.021	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.030	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.053	0.033	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.028	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.041	ug/l	
218-01-9	Chrysene	ND	0.11	0.025	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.034	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.043	ug/l	
86-73-7	Fluorene	ND	0.11	0.10	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.032	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.21	0.053	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.21	0.078	ug/l	
85-01-8	Phenanthrene	ND	0.053	0.013	ug/l	
129-00-0	Pyrene	ND	0.11	0.040	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	81%		30-130%
321-60-8	2-Fluorobiphenyl	64%		30-130%
1718-51-0	Terphenyl-d14	77%		30-130%

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E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW9-ROX-011414		
Lab Sample ID:	MC27657-3	**Date Sampled:**	01/14/14
Matrix:	AQ - Ground Water	**Date Received:**	01/15/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB53825.D	1	01/17/14	CZ	01/16/14	OP36542	GBB3144
Run #2							

	Initial Volume	Final Volume
Run #1	34.7 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0055	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	67%		36-173%
460-00-4	Bromofluorobenzene (S)	77%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-011414-HCL		
Lab Sample ID:	MC27657-4	**Date Sampled:**	01/14/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/15/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V27126.D	1	01/16/14	AMY	n/a	n/a	MSV1025
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	4.6	10	2.8	ug/l	J
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-011414-HCL		
Lab Sample ID:	MC27657-4	**Date Sampled:**	01/14/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/15/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
123-91-1	1,4-Dioxane	ND	25	16	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
98-82-8	Isopropylbenzene [a]	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene [a]	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.70	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-011414-HCL		
Lab Sample ID:	MC27657-4	**Date Sampled:**	01/14/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/15/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		70-130%
2037-26-5	Toluene-D8	99%		70-130%
460-00-4	4-Bromofluorobenzene	105%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased high.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-011414-ST		
Lab Sample ID:	MC27657-5	**Date Sampled:**	01/14/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/15/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB53826.D	1	01/17/14	CZ	01/16/14	OP36542	GBB3144
Run #2							

	Initial Volume	Final Volume
Run #1	35.2 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0054	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	63%		36-173%
460-00-4	Bromofluorobenzene (S)	73%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

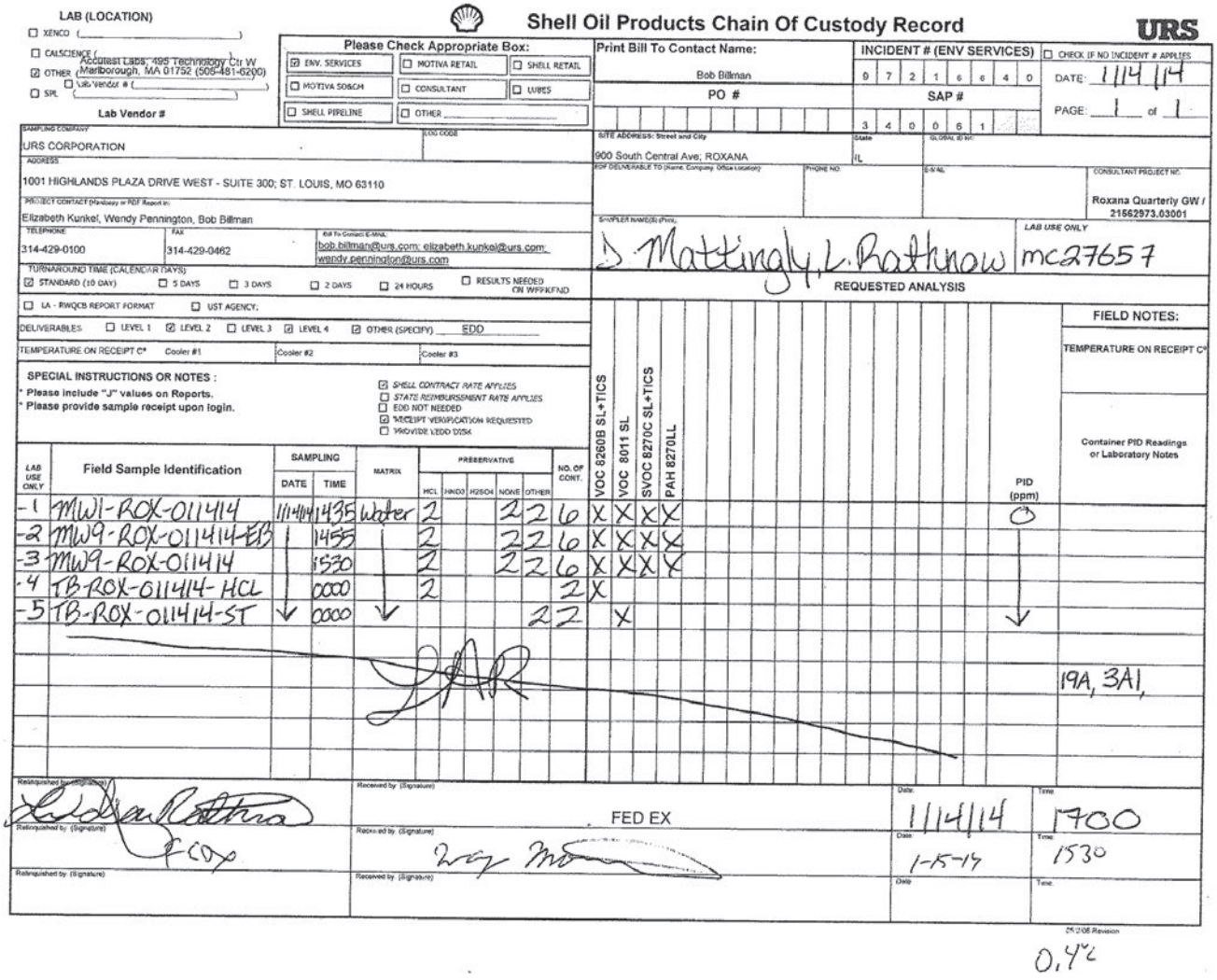
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- REPROC Form: Reprocessed/Corrected Data
- Sample Tracking Chronicle
- Internal Chain of Custody



LAB (LOCATION)
☐ XENCO (_____)
☐ CALSCIENCE (_____)
☑ OTHER (Accutest Labs; 495 Technology Ctr W Marlborough, MA 01752 (508-481-6200))
☐ SIL (_____)
Lab Vendor #

Shell Oil Products Chain Of Custody Record

URS

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SC&CH ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Bob Billman
PO #
INCIDENT # (ENV SERVICES): 0 7 2 1 6 6 4 0
SAP #: 3 4 0 0 6 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 1/14/14
PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
PROJECT CONTACT (Hardcopy or PDF Report to): Elizabeth Kunkel, Wendy Pennington, Bob Billman
TELEPHONE: 314-429-0100
FAX: 314-429-0462
E-mail To Contact E-MAIL: bob.billman@urs.com; elizabeth.kunkel@urs.com; wendy.pennington@urs.com
SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA
State: IL
GLOBAL ID NO.:
RDF DELIVERABLE TO (Name, Company, Office Location):
PHONE NO.:
E-MAIL:
CONSULTANT PROJECT NO.: Roxana Quarterly GW / 21562973.03001
SAMPLER NAME(S) (Print): D. Mattingly, L. Rathnow
LAB USE ONLY: mc27657

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (10 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WKEND
☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:
DELIVERABLES: ☐ LEVEL 1 ☑ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☑ OTHER (SPECIFY) EDD
TEMPERATURE ON RECEIPT C°: Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :
* Please include "J" values on Reports.
* Please provide sample receipt upon login.

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE EDD DISK

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8260B SL+TICS	VOC 8011 SL	SVOC 8270C SL+TICS	PAH 8270LL	PID (ppm)	Container PID Readings or Laboratory Notes
-1	MW1-ROX-011414	1/14/14	1435	Water	2			2	2	6	X	X	X	X	0	
-2	MW9-ROX-011414-EB		1455		2			2	2	6	X	X	X	X		
-3	MW9-ROX-011414		1530		2			2	2	6	X	X	X	X		
-4	TB-ROX-011414-HCL		0000		2					2	X					
-5	TB-ROX-011414-ST	↓	0000	↓					2	2		X			↓	
																19A, 3A1,

FIELD NOTES:
TEMPERATURE ON RECEIPT C°

Relinquished by: (Signature)	Received by: (Signature) FED EX	Date: 1/14/14	Time: 1700
Relinquished by: (Signature)	Received by: (Signature)	Date: 1-15-14	Time: 1530
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

5/2006 Revision

0.4°C

MC27657: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC27657 **Client:** URS **Immediate Client Services Action Required:** No

Date / Time Received: 1/15/2014 **Delivery Method:** **Client Service Action Required at Login:** No

Project: 900 SOUTH CENTRAL **No. Coolers:** 1 **Airbill #'s:**

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Infared gun		
3. Cooler media:	Ice (bag)		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

Marlborough, MA
www/accutest.com

5.1

5

MC27657: Chain of Custody
Page 2 of 2

Initial Calibration Summary

Job Number: MC27657 **Sample:** MSV1019-ICC1019
Account: SHELLWIC Shell Oil **Lab FileID:** V26938.D
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Response Factor Report MSV

Method : O:\msv\1\methods\v140107wx.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Calibration Files
0.25=v26932.d 0.5 =v26933.d 1 =v26934.d 2 =v26935.d
5 =v26936.d 10 =v26937.d 50 =v26938.d 100 =v26939.d
200 =v26940.d 400 =v26942.d = =

Compound

	0.25	0.5	1	2	5	10	50	100	200	400	Avg	%RSD
1) I tert butyl alcohol-d9 ----------ISTD----------												
2) Ethanol				0.166	0.141	0.140	0.070	0.095	0.070	0.077	0.108	36.81
---- Linear regression ---- Coefficient = 0.9924												
Response Ratio = 0.07206 + 0.07518 *A												
3) I pentafluorobenzene ----------ISTD----------												
4) chloroethane				0.708	0.546	0.470	0.438	0.407	0.399	0.368	0.311	0.456	27.04
---- Linear regression ---- Coefficient = 0.9911												
Response Ratio = 0.00673 + 0.37855 *A												

(#) = Out of Range ### Number of calibration levels exceeded format ###

v140107wx.m Mon Oct 12 12:04:54 2015

Initial Calibration Verification

Job Number: MC27657 **Sample:** MSV1019-ICV1019
Account: SHELLWIC Shell Oil **Lab FileID:** V26944.D
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Evaluate Continuing Calibration Report

Data File : O:\msv\1\databackup\v140107\v26944.d Vial: 22
Acq On : 7 Jan 2014 7:05 pm Operator: amym
Sample : icv1019-50 Inst : MSV
Misc : MS30921,MSV1019,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : O:\msv\1\methods\v140107wx.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Oct 12 12:03:49 2015
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	tert butyl alcohol-d9	1.000	1.000	0.0	110	-0.01	3.51
		Amount	Calc.	%Drift			
2 p	Ethanol	5000.000	6281.655	-25.6#	160	0.01	2.50
		AvgRF	CCRF	%Dev			
3 I	pentafluorobenzene	1.000	1.000	0.0	113	0.00	6.55
		Amount	Calc.	%Drift			
4 p	chloroethane	50.000	55.636	-11.3	119	0.00	2.15

(#) = Out of Range SPCC's out = 0 CCC's out = 0
v26938.d v140107wx.m Mon Oct 12 12:05:26 2015

Continuing Calibration Summary

Job Number: MC27657 **Sample:** MSV1025-CC1019
Account: SHELLWIC Shell Oil **Lab FileID:** V27120.D
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Evaluate Continuing Calibration Report

Data File : O:\msv\1\databackup\v140116\v27120.d Vial: 5
Acq On : 16 Jan 2014 10:26 am Operator: amym
Sample : cc1019-50 Inst : MSV
Misc : MS30964,MSV1025,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : O:\msv\1\methods\v140107wx.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Oct 12 12:03:49 2015
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	tert butyl alcohol-d9	1.000	1.000	0.0	80	0.00	3.53
		Amount	Calc.	%Drift			
2 p	Ethanol	5000.000	8728.673	-74.6#	159	0.03	2.52
		AvgRF	CCRF	%Dev			
3 I	pentafluorobenzene	1.000	1.000	0.0	83	0.01	6.57
		Amount	Calc.	%Drift			
4 p	chloroethane	50.000	61.056	-22.1#	95	0.00	2.16

(#) = Out of Range SPCC's out = 0 CCC's out = 0
v26938.d v140107wx.m Tue Nov 17 09:37:52 2015

Continuing Calibration Summary

Job Number: MC27657 **Sample:** MSV1026-CC1019
Account: SHELLWIC Shell Oil **Lab FileID:** V27151.D
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Evaluate Continuing Calibration Report

Data File : O:\msv\1\databackup\v140117\v27151.d Vial: 3
Acq On : 17 Jan 2014 10:03 am Operator: amym
Sample : cc1019-50 Inst : MSV
Misc : MS30964,MSV1026,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : O:\msv\1\methods\v140107wx.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Oct 12 12:03:49 2015
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	tert butyl alcohol-d9	1.000	1.000	0.0	104	0.00	3.52
		Amount	Calc.	%Drift			
2 p	Ethanol	5000.000	7689.267	-53.8#	183	0.02	2.51
		AvgRF	CCRF	%Dev			
3 I	pentafluorobenzene	1.000	1.000	0.0	107	0.00	6.57
		Amount	Calc.	%Drift			
4 p	chloroethane	50.000	55.686	-11.4	113	0.00	2.16

(#) = Out of Range SPCC's out = 0 CCC's out = 0
v26938.d v140107wx.m Tue Nov 17 11:29:31 2015

Data Path : O:\msv\1\databackup\v140107\
Data File : v26932.d
Acq On : 7 Jan 2014 12:30 pm
Operator : amym
Sample : ic1019-0.25
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 12 11:50:29 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

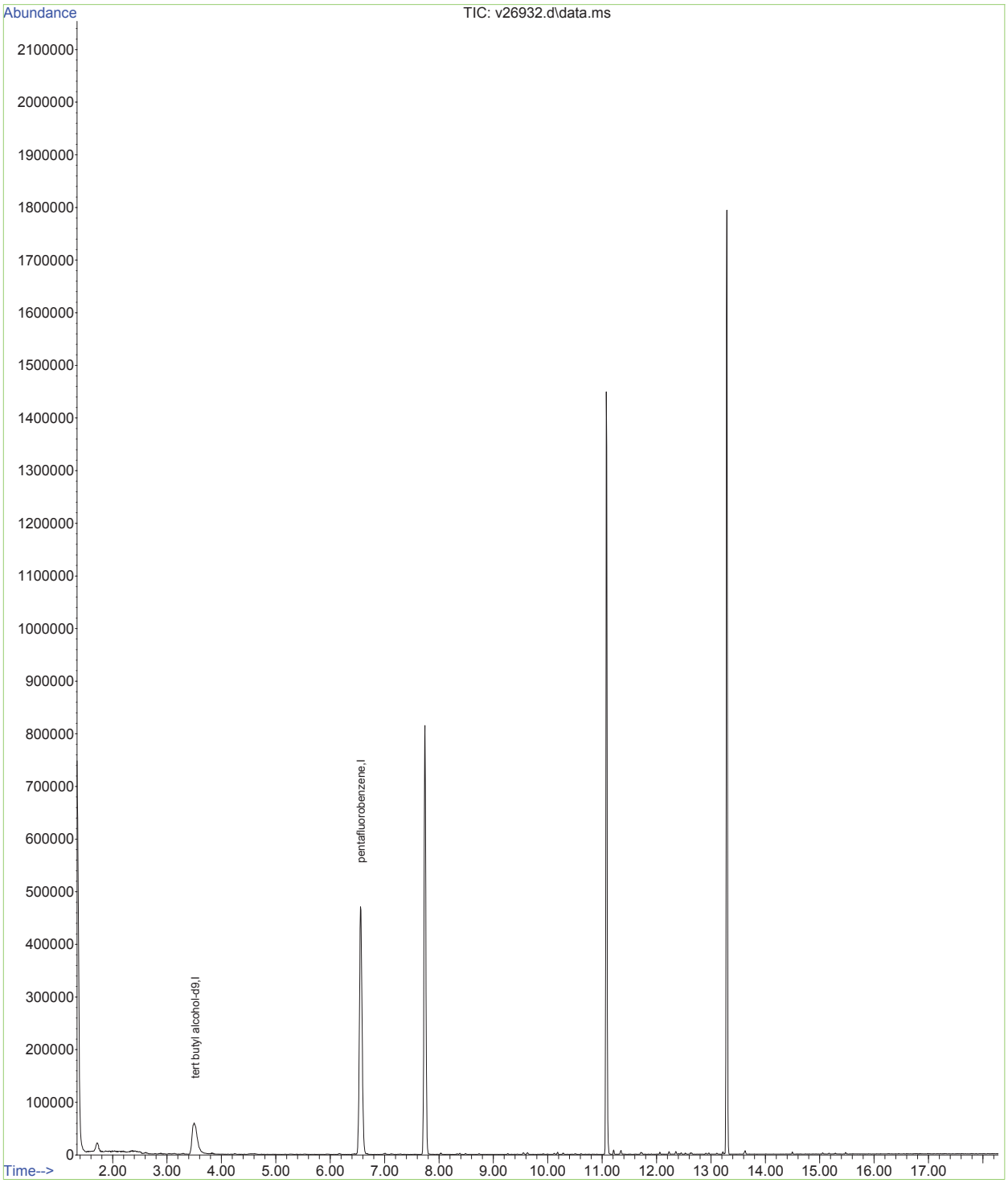
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.522	65	168440	500.00	ug/L	0.00
3) pentafluorobenzene	6.564	168	534929	50.00	ug/L	0.00

Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msv\1\databackup\v140107\
Data File : v26932.d
Acq On : 7 Jan 2014 12:30 pm
Operator : amym
Sample : ic1019-0.25
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 12 11:50:29 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Data Path : O:\msv\1\databackup\v140107\
Data File : v26933.d
Acq On : 7 Jan 2014 12:56 pm
Operator : amym
Sample : ic1019-0.5
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 12 11:50:59 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

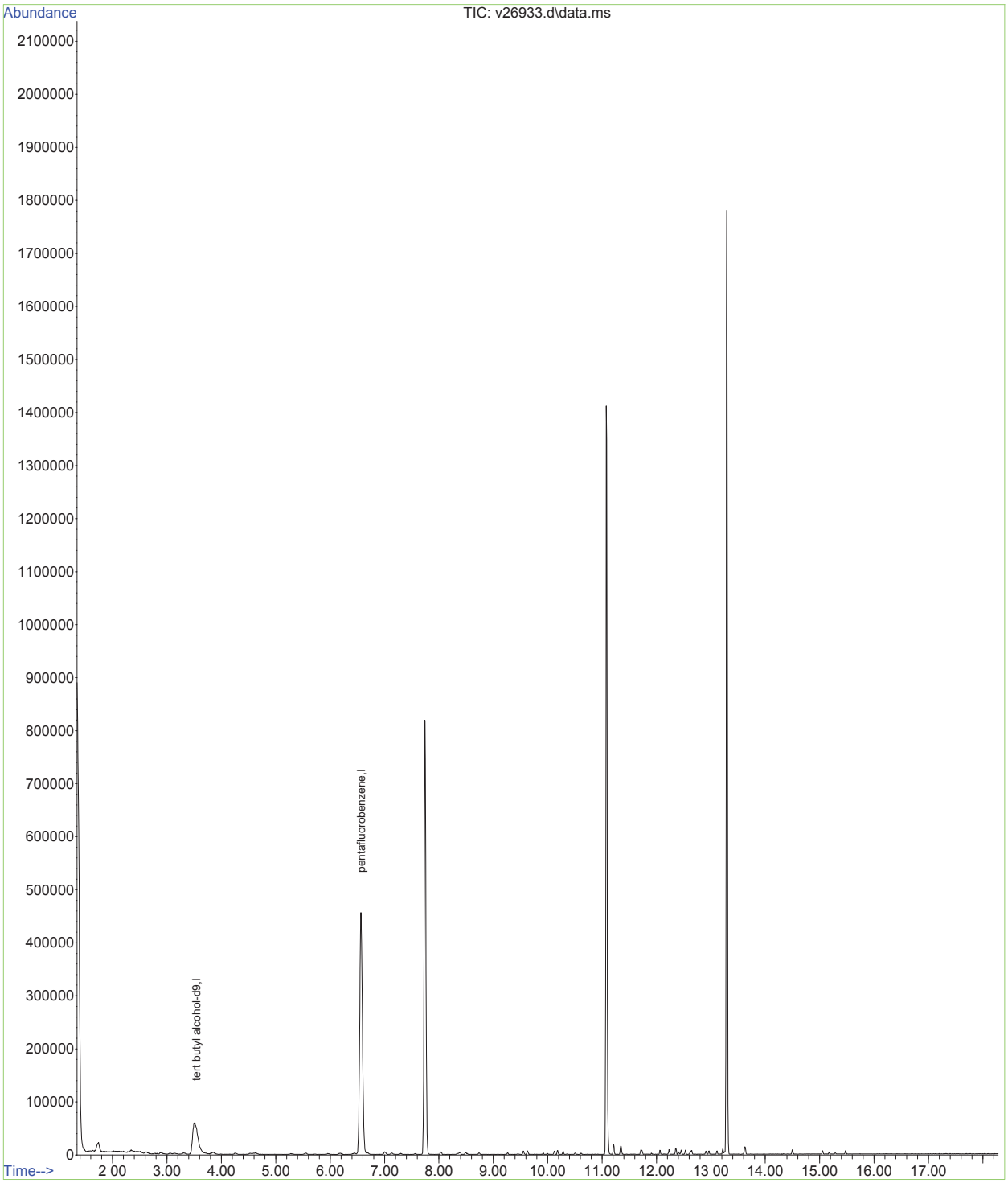
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.537	65	168993	500.00	ug/L	0.01
3) pentafluorobenzene	6.570	168	523768	50.00	ug/L	0.01

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msv\1\databackup\v140107\
Data File : v26933.d
Acq On : 7 Jan 2014 12:56 pm
Operator : amym
Sample : ic1019-0.5
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 12 11:50:59 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



SGS ACCUTEST MC27657

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26934.d
Acq On : 7 Jan 2014 1:22 pm
Operator : amym
Sample : ic1019-1
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

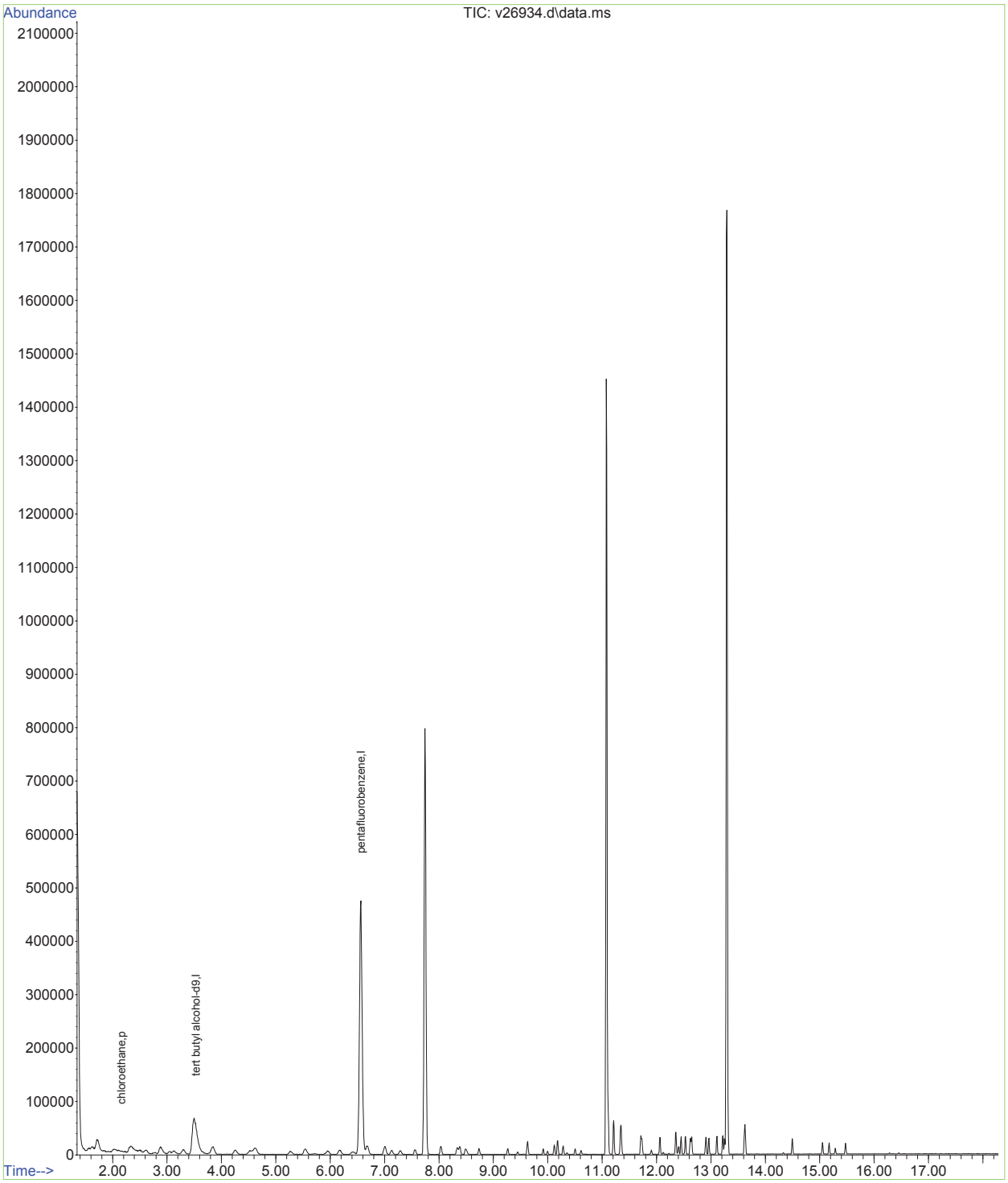
Quant Time: Oct 12 11:52:02 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.527	65	169438	500.00	ug/L	0.00
3) pentafluorobenzene	6.565	168	527887	50.00	ug/L	0.00
Target Compounds						Qvalue
4) chloroethane	2.159	64	7471m	1.74	ug/L	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

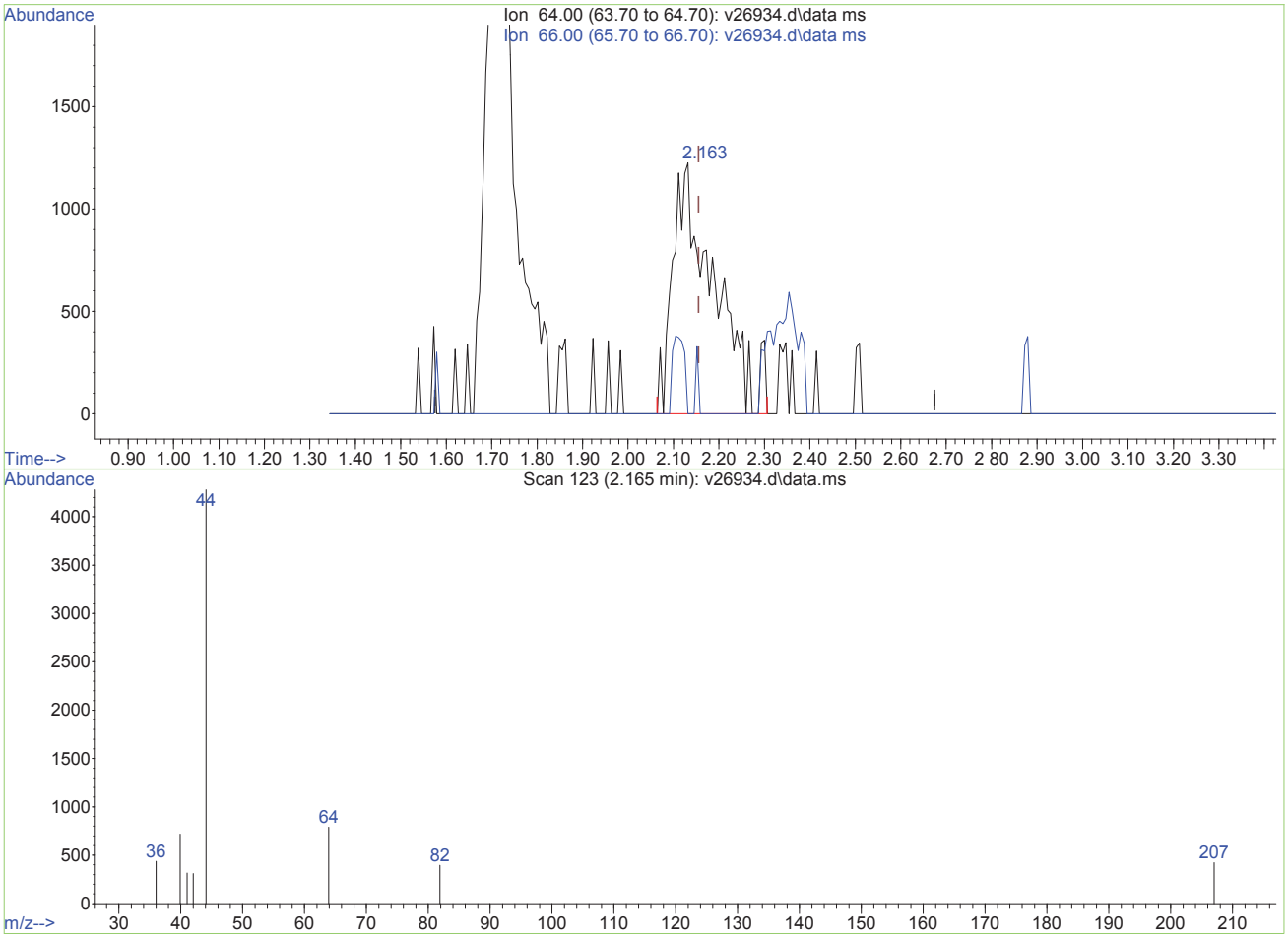
Data Path : O:\msv\1\databackup\v140107\
Data File : v26934.d
Acq On : 7 Jan 2014 1:22 pm
Operator : amym
Sample : ic1019-1
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 12 11:52:02 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Data Path : O:\msv\1\databackup\v140107\
Data File : v26934.d
Acq On : 7 Jan 2014 1:22 pm
Operator : amym
Sample : ic1019-1
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 12 11:49:53 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26934.d\data.ms

(4) chloroethane (p)

2.163min (+0.008) 1.81ug/L

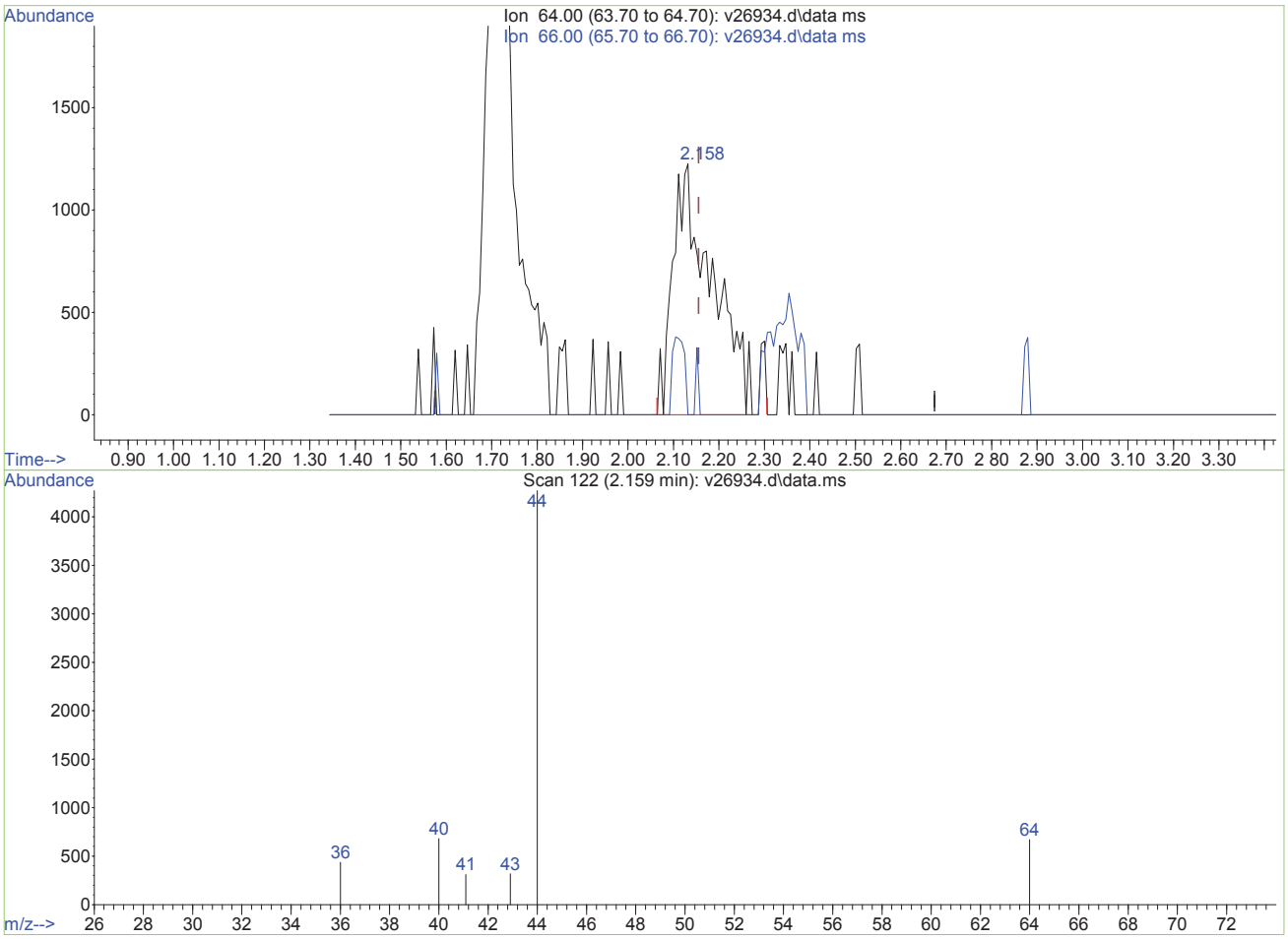
response 7756

Ion	Exp%	Act%
64.00	100	100
66.00	34.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26934.D edits: chloroethane

Data Path : O:\msv\1\databackup\v140107\
Data File : v26934.d
Acq On : 7 Jan 2014 1:22 pm
Operator : amym
Sample : ic1019-1
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 12 11:49:53 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26934.d\data.ms

(4) chloroethane (p)

2.159min (+0.003) 1.74ug/L m

response 7471

Ion	Exp%	Act%
64.00	100	100
66.00	34.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26934.D edits: chloroethane

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26935.d
Acq On : 7 Jan 2014 1:49 pm
Operator : amym
Sample : ic1019-2
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

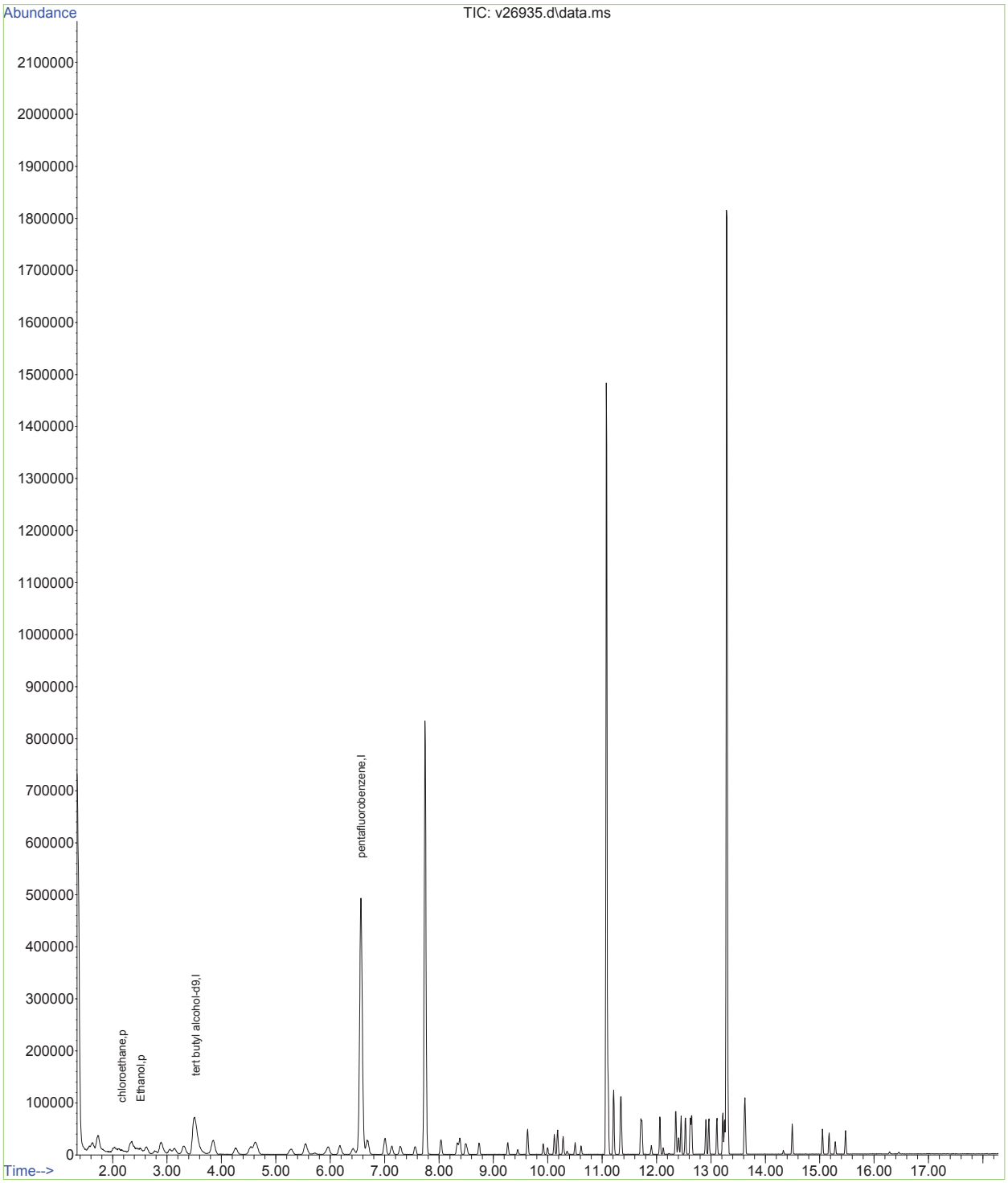
Quant Time: Oct 12 11:52:51 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.533	65	165100	500.00	ug/L	0.01
3) pentafluorobenzene	6.569	168	548060	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.516	45	10989m	474.44	ug/L	
4) chloroethane	2.170	64	11967	2.68	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

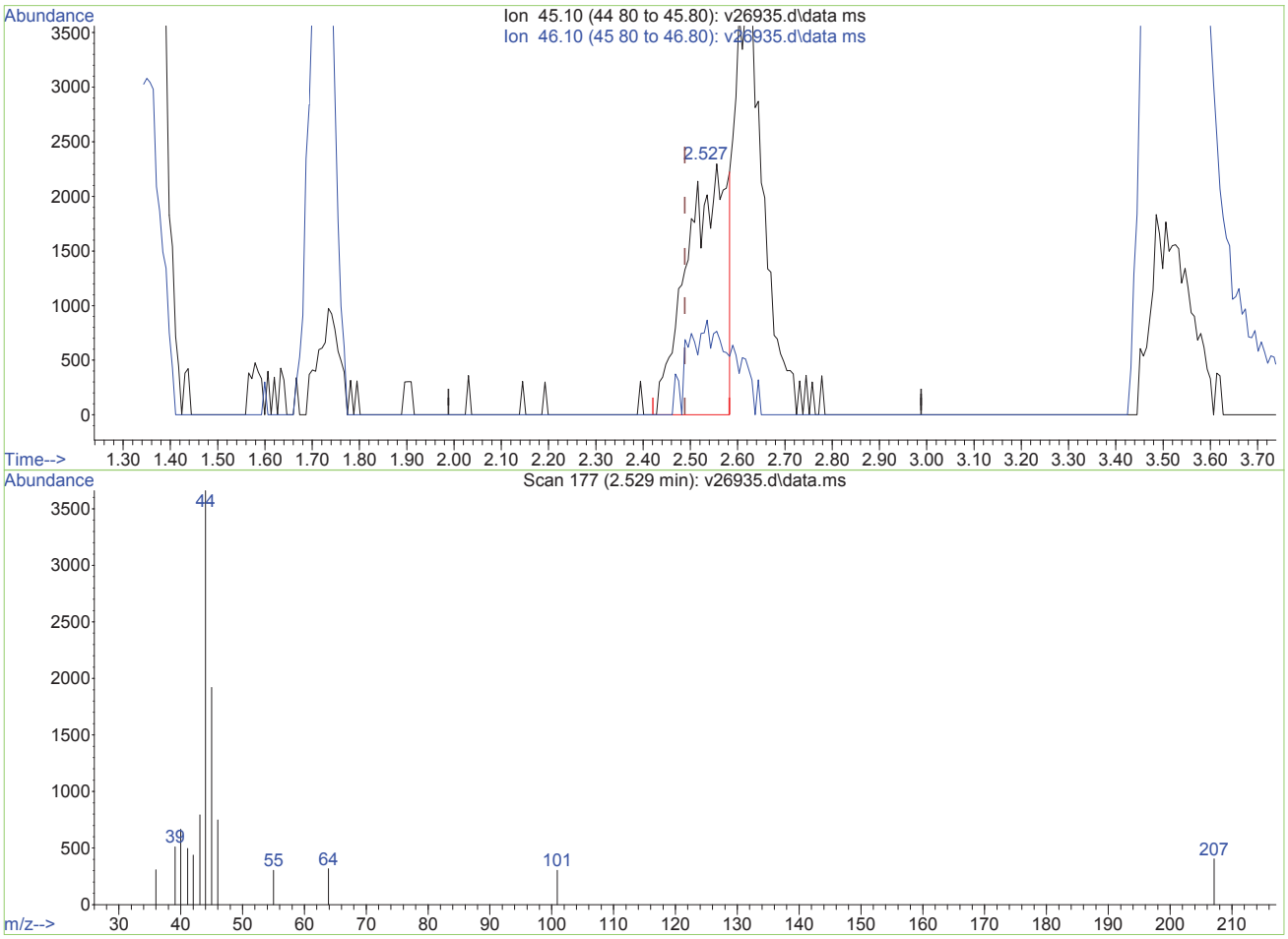
Data Path : O:\msv\1\databackup\v140107\
Data File : v26935.d
Acq On : 7 Jan 2014 1:49 pm
Operator : amym
Sample : ic1019-2
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 12 11:52:51 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Data Path : O:\msv\1\databackup\v140107\
Data File : v26935.d
Acq On : 7 Jan 2014 1:49 pm
Operator : amym
Sample : ic1019-2
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 12 11:49:55 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26935.d\data.ms

(2) Ethanol (p)

2.527min (+0.039) 585.36ug/L

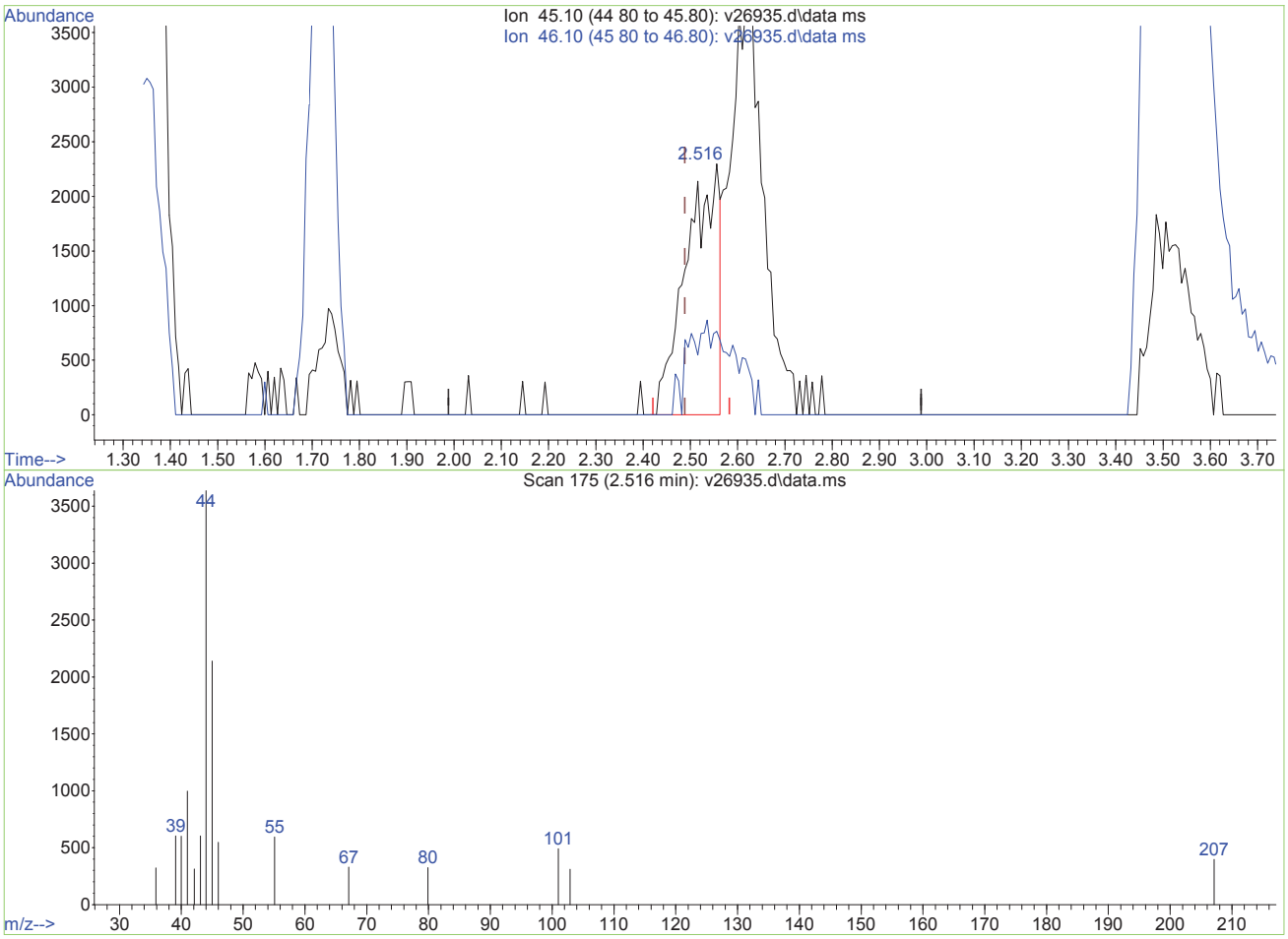
response 13558

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	43.04#
0.00	0.00	0.00
0.00	0.00	0.00

V26935.D edits: Ethanol

Data Path : O:\msv\1\databackup\v140107\
Data File : v26935.d
Acq On : 7 Jan 2014 1:49 pm
Operator : amym
Sample : ic1019-2
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 12 11:49:55 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26935.d\data.ms

(2) Ethanol (p)

2.516min (+0.027) 474.44ug/L m

response 10989

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	53.11#
0.00	0.00	0.00
0.00	0.00	0.00

V26935.D edits: Ethanol

Data Path : O:\msv\1\databackup\v140107\
Data File : v26936.d
Acq On : 7 Jan 2014 2:16 pm
Operator : amym
Sample : ic1019-5
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

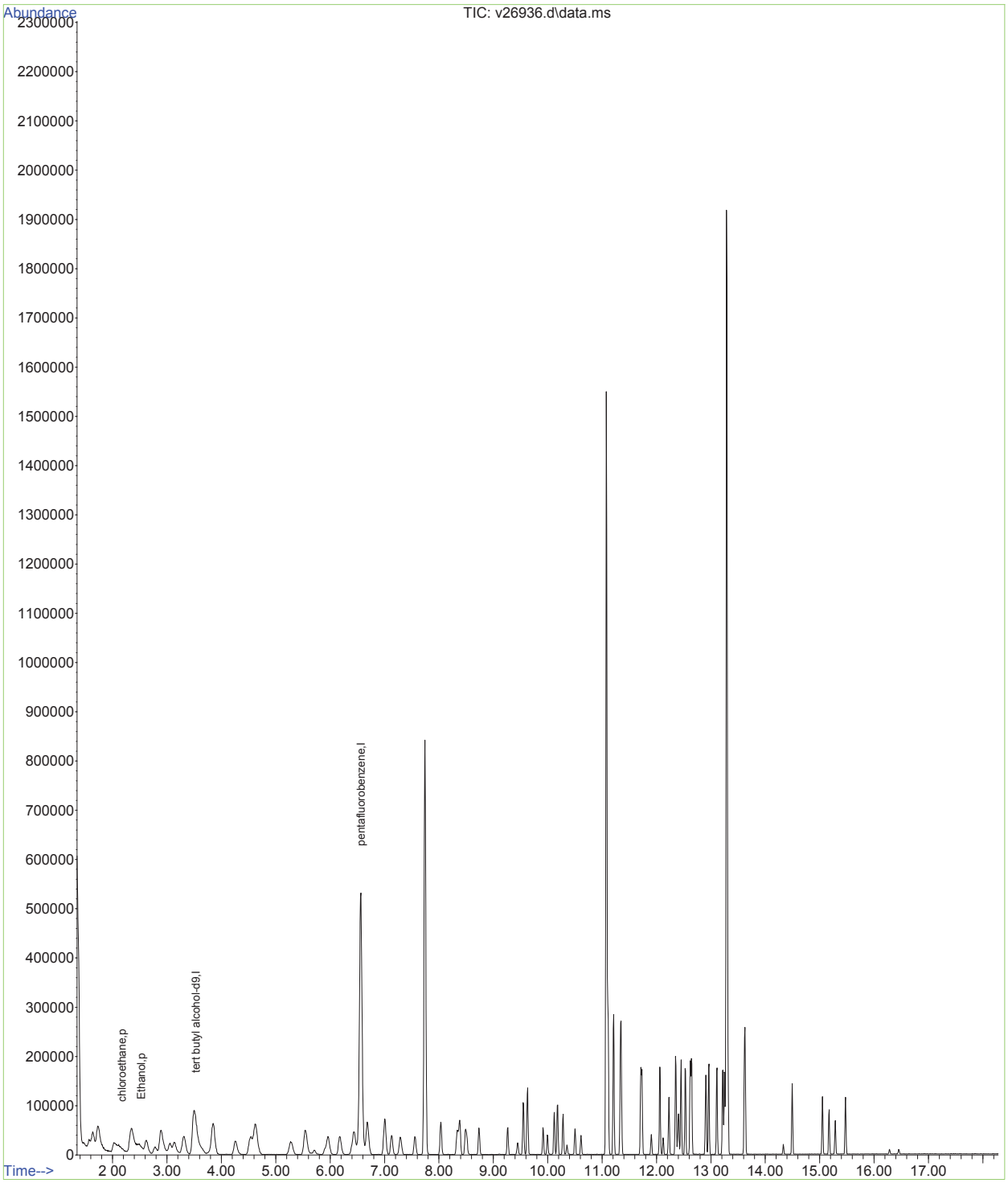
Quant Time: Oct 12 11:49:57 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.532	65	174193	500.00	ug/L	0.00
3) pentafluorobenzene	6.565	168	569450	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.523	45	24520	1003.38	ug/L	# 1
4) chloroethane	2.173	64	26754	5.77	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msv\1\databackup\v140107\
Data File : v26936.d
Acq On : 7 Jan 2014 2:16 pm
Operator : amym
Sample : ic1019-5
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 12 11:49:57 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26937.d
Acq On : 7 Jan 2014 2:42 pm
Operator : amym
Sample : ic1019-10
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 12 11:49:59 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

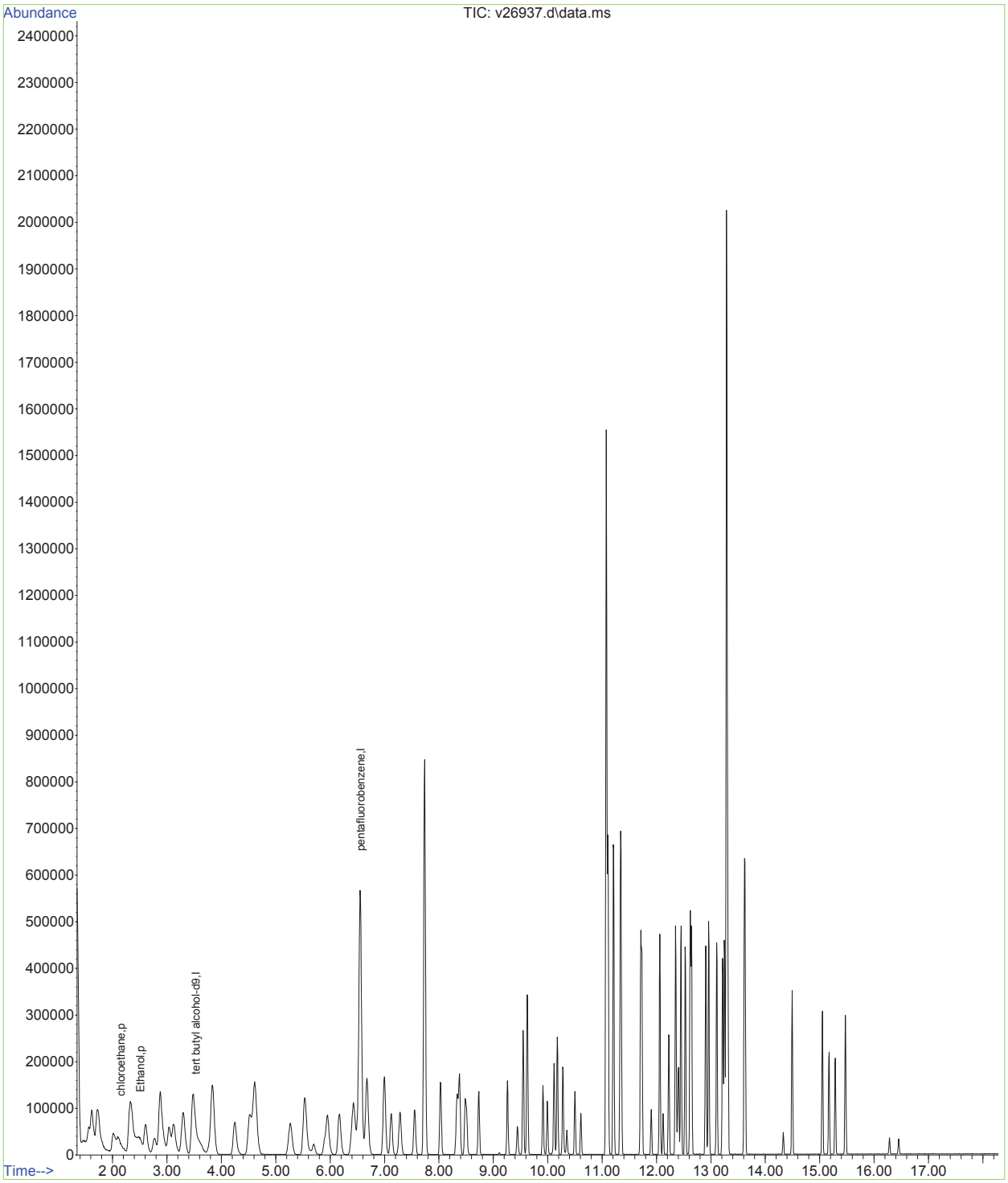
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.523	65	172384	500.00	ug/L	0.00
3) pentafluorobenzene	6.556	168	597997	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.509	45	48113	1989.48	ug/L	# 1
4) chloroethane	2.155	64	52409	10.77	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST MC27657

Data Path : O:\msv\1\databackup\v140107\
Data File : v26937.d
Acq On : 7 Jan 2014 2:42 pm
Operator : amym
Sample : ic1019-10
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 12 11:49:59 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Data Path : O:\msv\1\databackup\v140107\
Data File : v26938.d
Acq On : 7 Jan 2014 3:08 pm
Operator : amym
Sample : icc1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

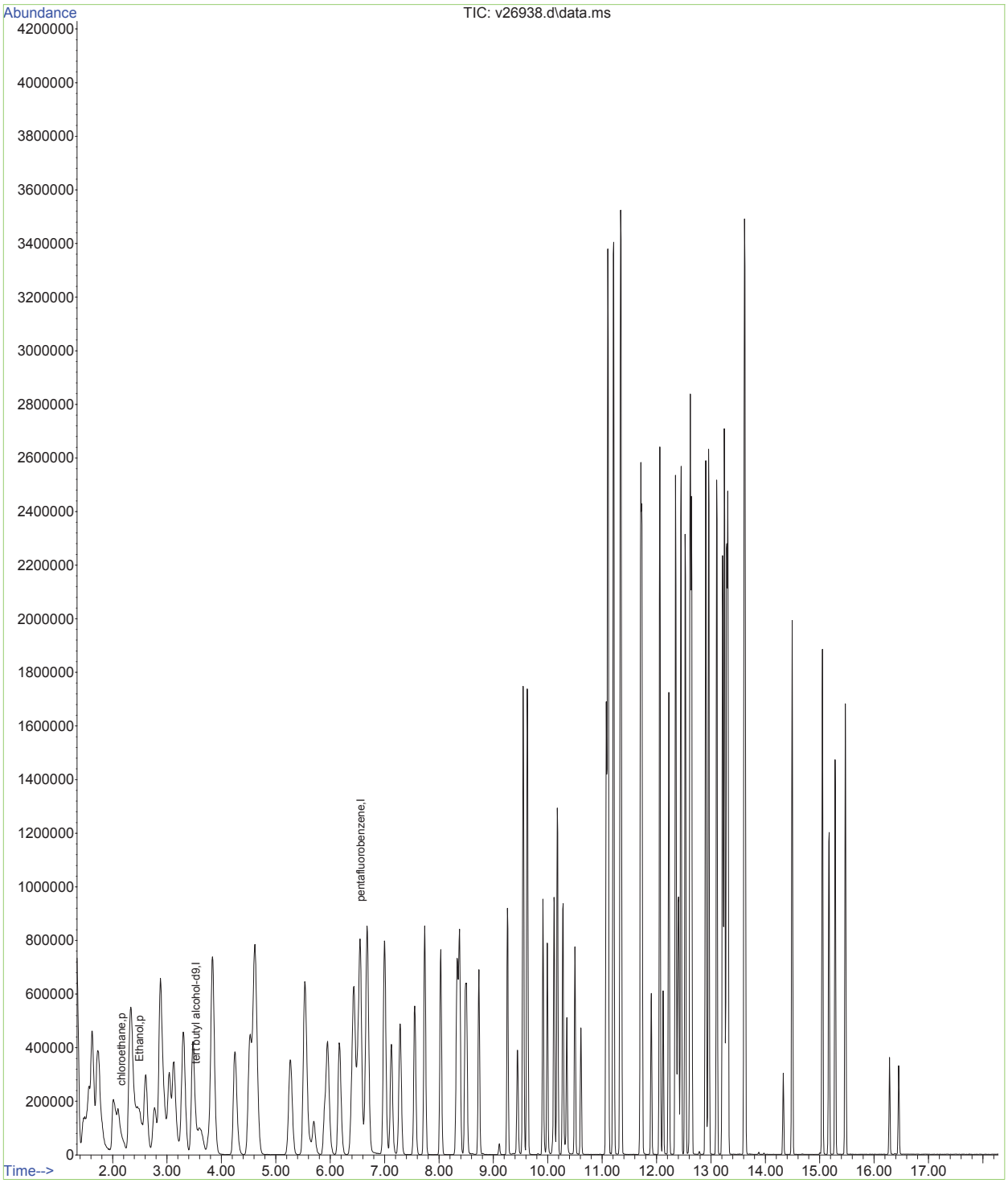
Quant Time: Oct 12 11:54:24 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.524	65	196490	500.00	ug/L	0.00
3) pentafluorobenzene	6.559	168	650576	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.489	45	137020m	4970.70	ug/L	
4) chloroethane	2.155	64	264750	50.00	ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

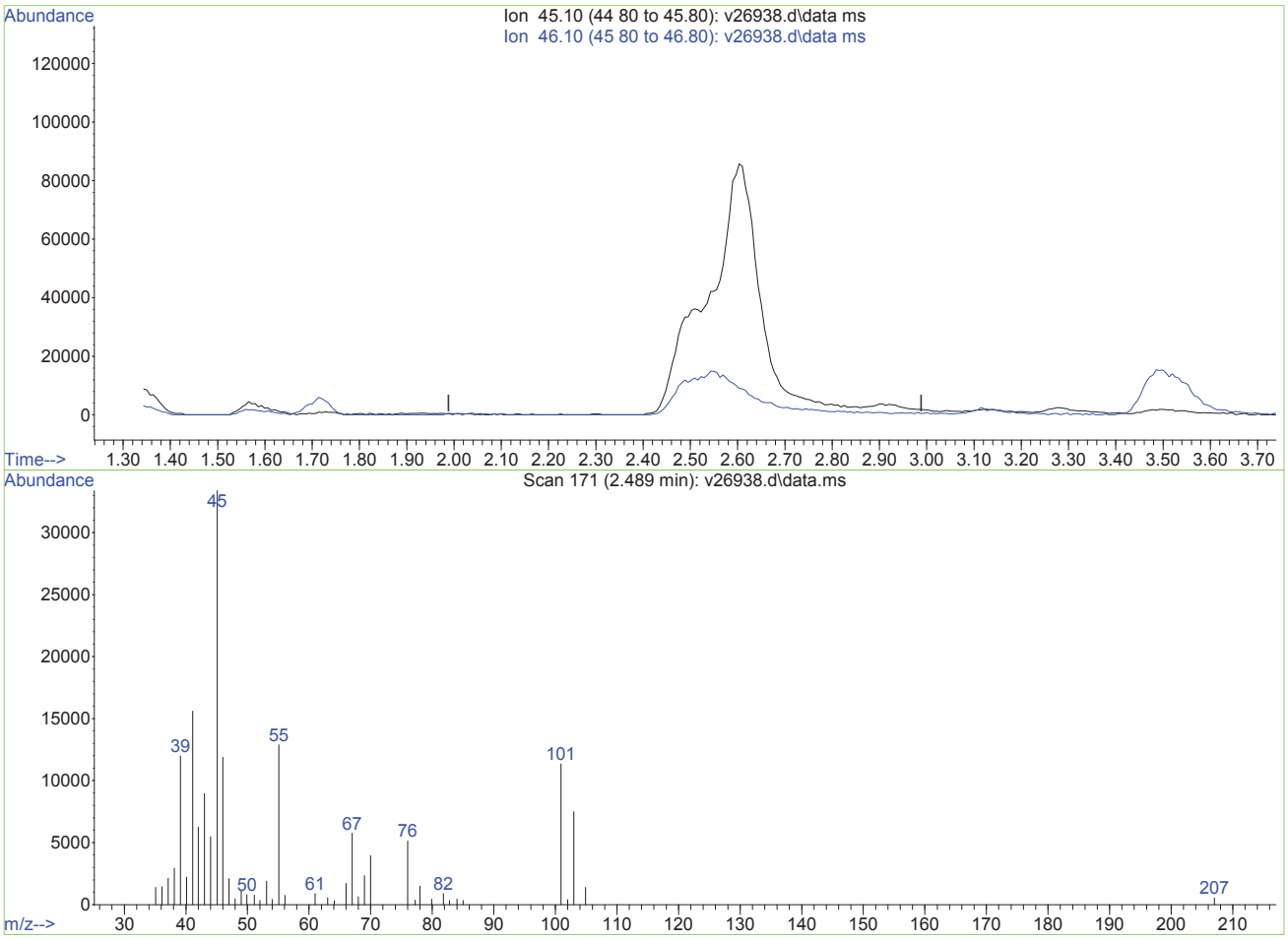
Data Path : O:\msv\1\databackup\v140107\
Data File : v26938.d
Acq On : 7 Jan 2014 3:08 pm
Operator : amym
Sample : icc1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 12 11:54:24 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Data Path : O:\msv\1\databackup\v140107\
Data File : v26938.d
Acq On : 7 Jan 2014 3:08 pm
Operator : amym
Sample : icc1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 12 11:50:01 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26938.d\data.ms

(2) Ethanol (p)

2.489min (-2.489) 0.00ug/L

response 0

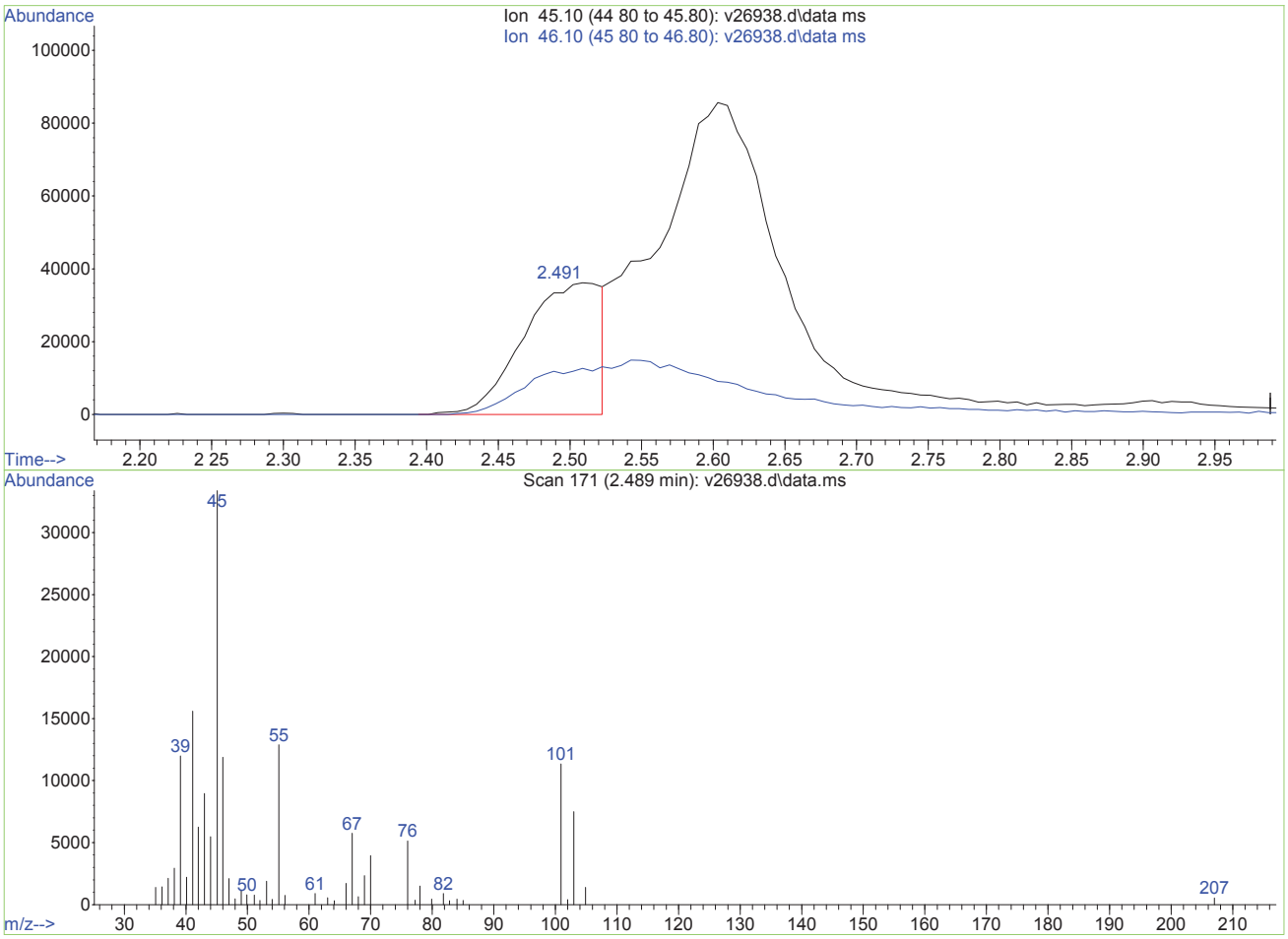
Ion	Exp%	Act%
45.10	100	0.00
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26938.D edits: Ethanol

SGS ACCUTEST MC27657

Data Path : O:\msv\1\databackup\v140107\
Data File : v26938.d
Acq On : 7 Jan 2014 3:08 pm
Operator : amym
Sample : icc1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 12 11:50:01 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26938.d\data.ms

(2) Ethanol (p)

2.489min (0.000) 4970.70ug/L m

response 137020

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26938.D edits: Ethanol

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26939.d
Acq On : 7 Jan 2014 3:35 pm
Operator : amym
Sample : ic1019-100
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 12 11:55:09 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

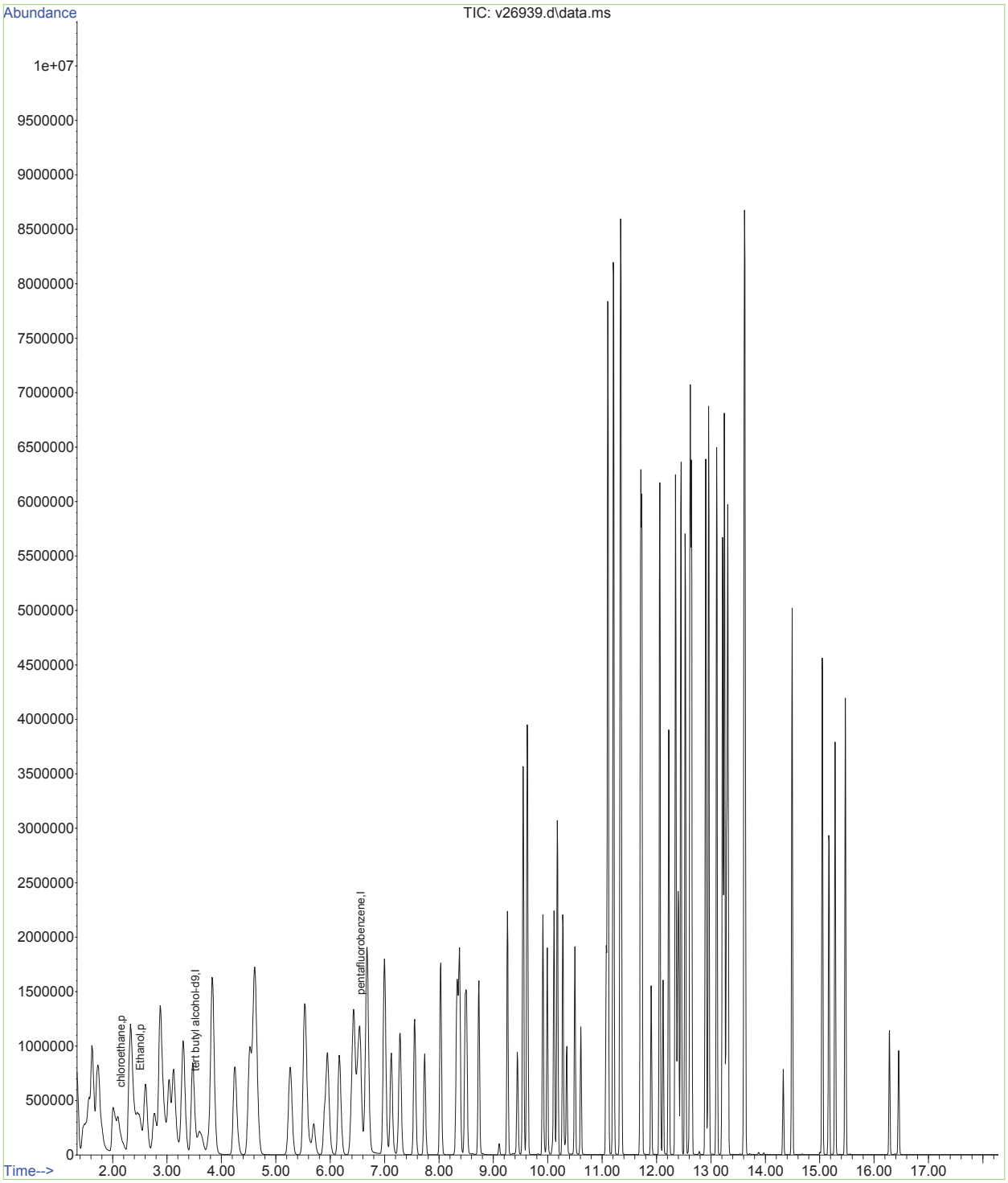
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.521	65	218199	500.00	ug/L	0.00
3) pentafluorobenzene	6.558	168	709327	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.502	45	415447m	13571.79	ug/L	
4) chloroethane	2.151	64	566729	98.17	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST MC27657

Data Path : O:\msv\1\databackup\v140107\
Data File : v26939.d
Acq On : 7 Jan 2014 3:35 pm
Operator : amym
Sample : ic1019-100
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

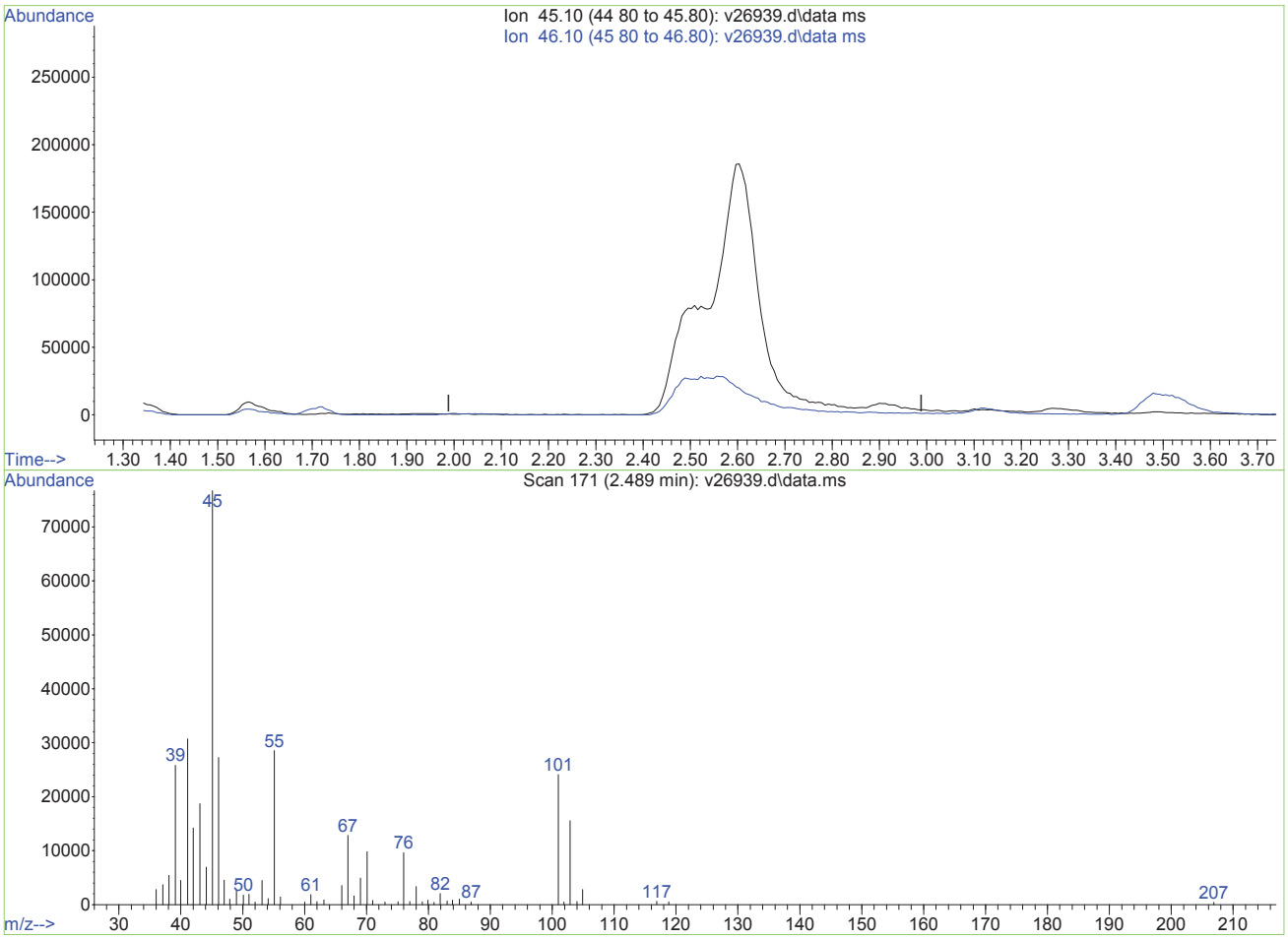
Quant Time: Oct 12 11:55:09 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26939.d
Acq On : 7 Jan 2014 3:35 pm
Operator : amym
Sample : ic1019-100
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 12 11:50:03 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26939.d\data.ms

(2) Ethanol (p)

2.489min (-2.489) 0.00ug/L

response 0

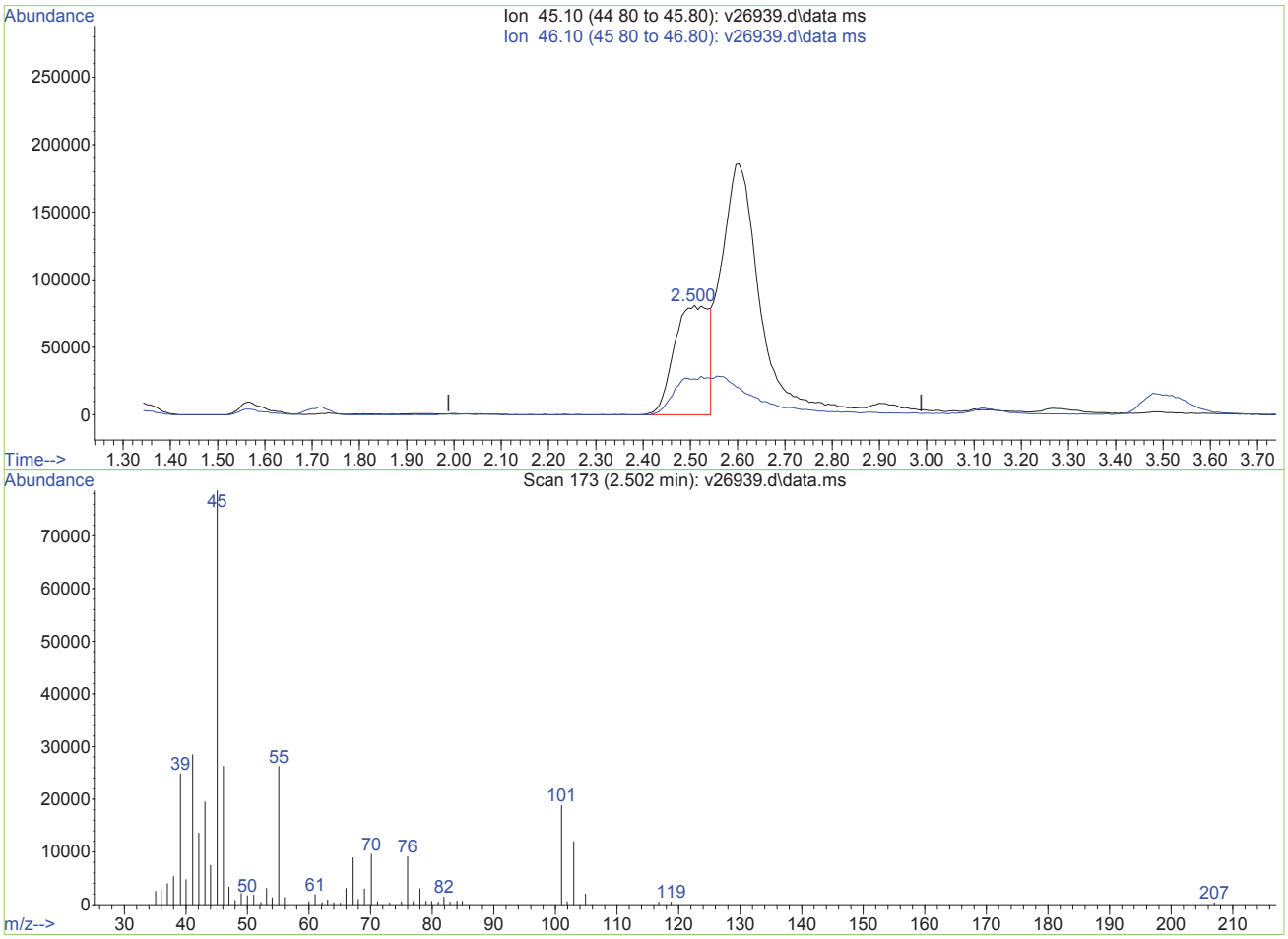
Ion	Exp%	Act%
45.10	100	0.00
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26939.D edits: Ethanol

SGS ACCUTEST MC27657

Data Path : O:\msv\1\databackup\v140107\
Data File : v26939.d
Acq On : 7 Jan 2014 3:35 pm
Operator : amym
Sample : ic1019-100
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 12 11:50:03 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26939.d\data.ms

(2) Ethanol (p)

2.502min (+0.013) 13571.79ug/L m

response 415447

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26939.D edits: Ethanol

SGS ACCUTEST MC27657

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:56:38 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

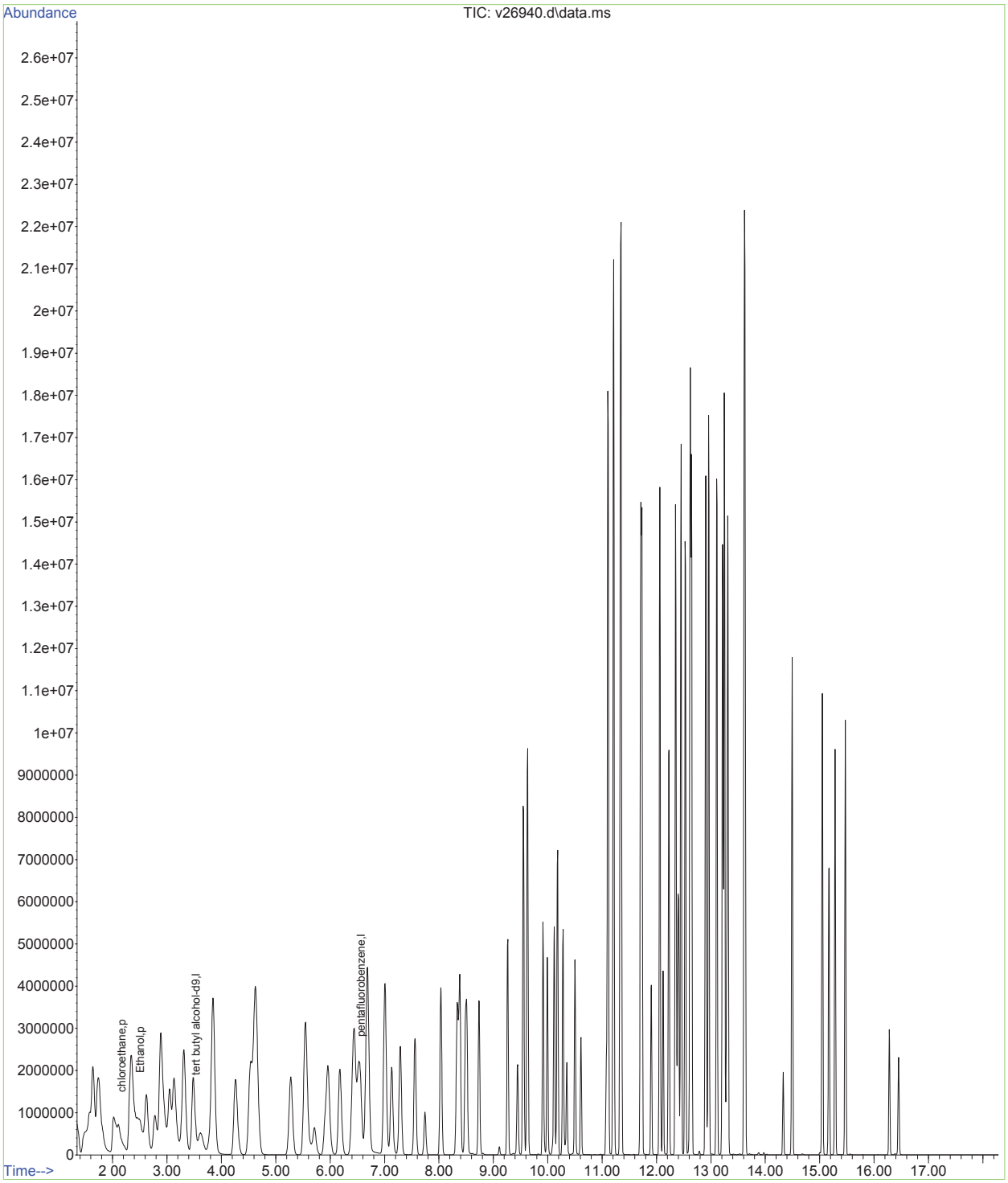
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) tert butyl alcohol-d9	3.526	65	248311m	500.00 ug/L	0.00
3) pentafluorobenzene	6.565	168	827373	50.00 ug/L	0.00
Target Compounds					Qvalue
2) Ethanol	2.502	45	690608m	19824.86 ug/L	
4) chloroethane	2.165	64	1217177m	180.75 ug/L	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST MC27657

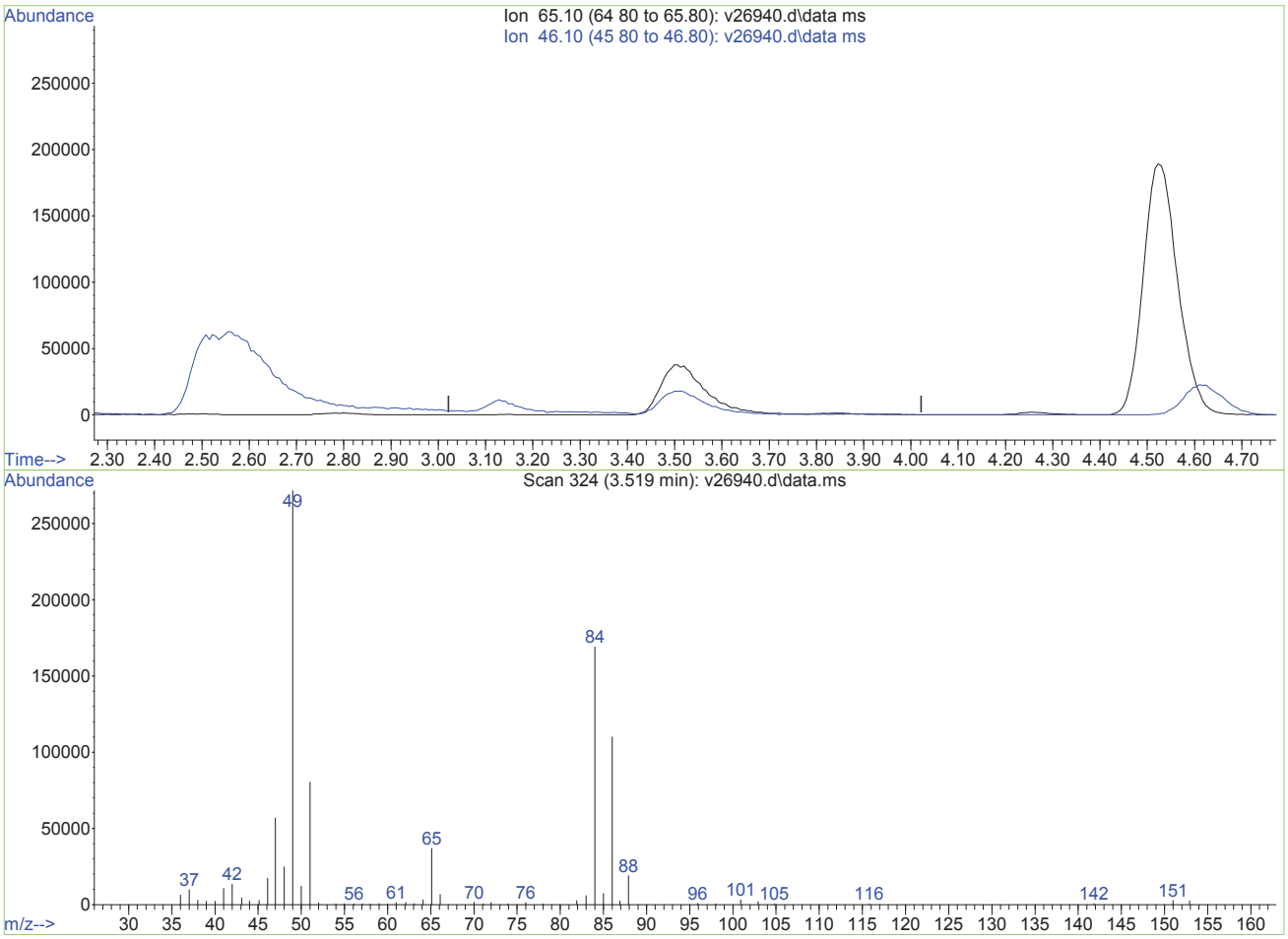
Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:56:38 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:50:05 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26940.d\data.ms

(1) tert butyl alcohol-d9 (I)

3.522min (-3.522) 0.00ug/L

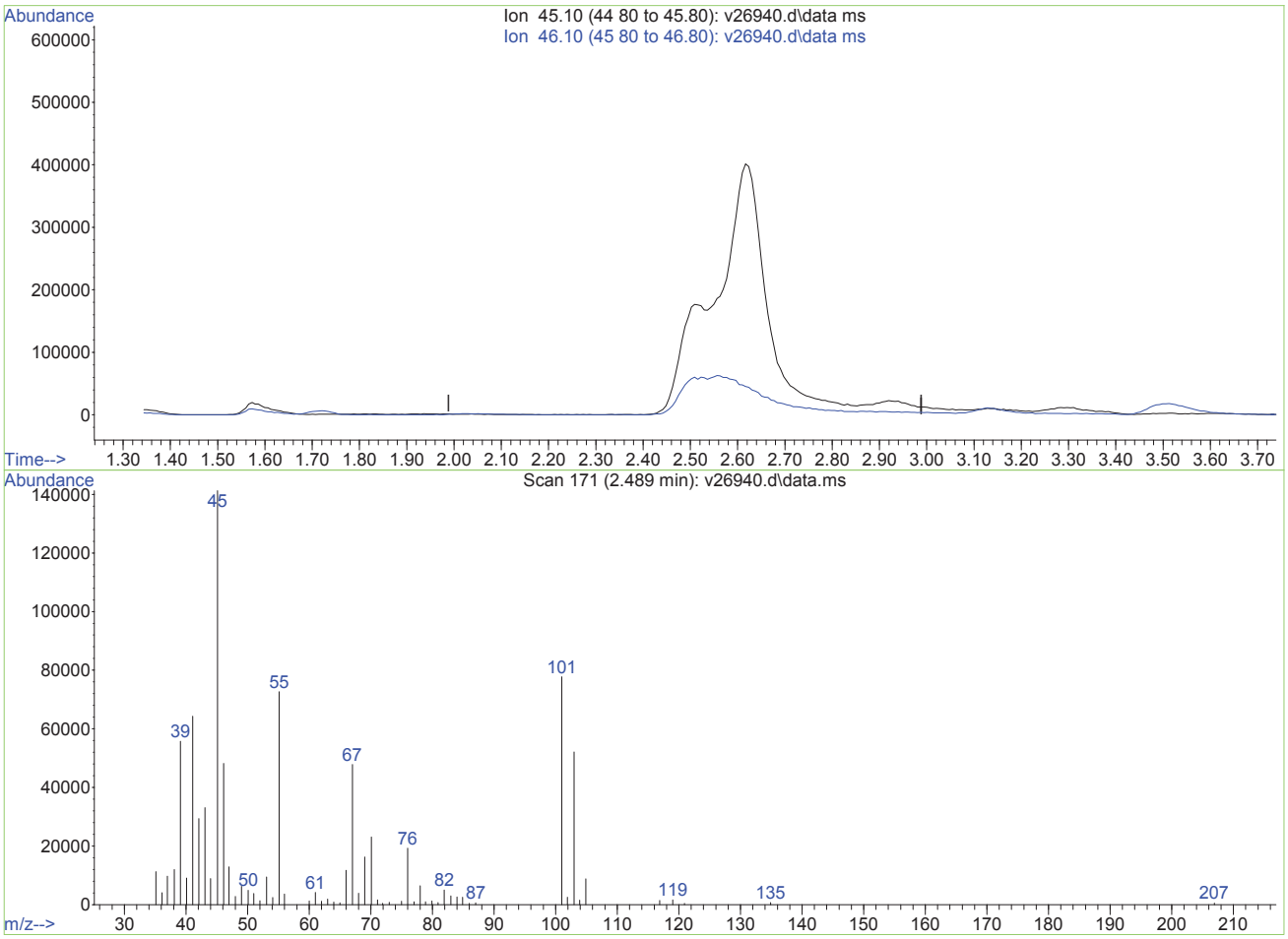
response 0

Ion	Exp%	Act%
65.10	100	0.00
46.10	54.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26940.D edits: tert butyl alcohol-d9

Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:50:05 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26940.d\data.ms

(2) Ethanol (p)

2.489min (-2.489) 0.00ug/L

response 0

Ion	Exp%	Act%
45.10	100	0.00
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

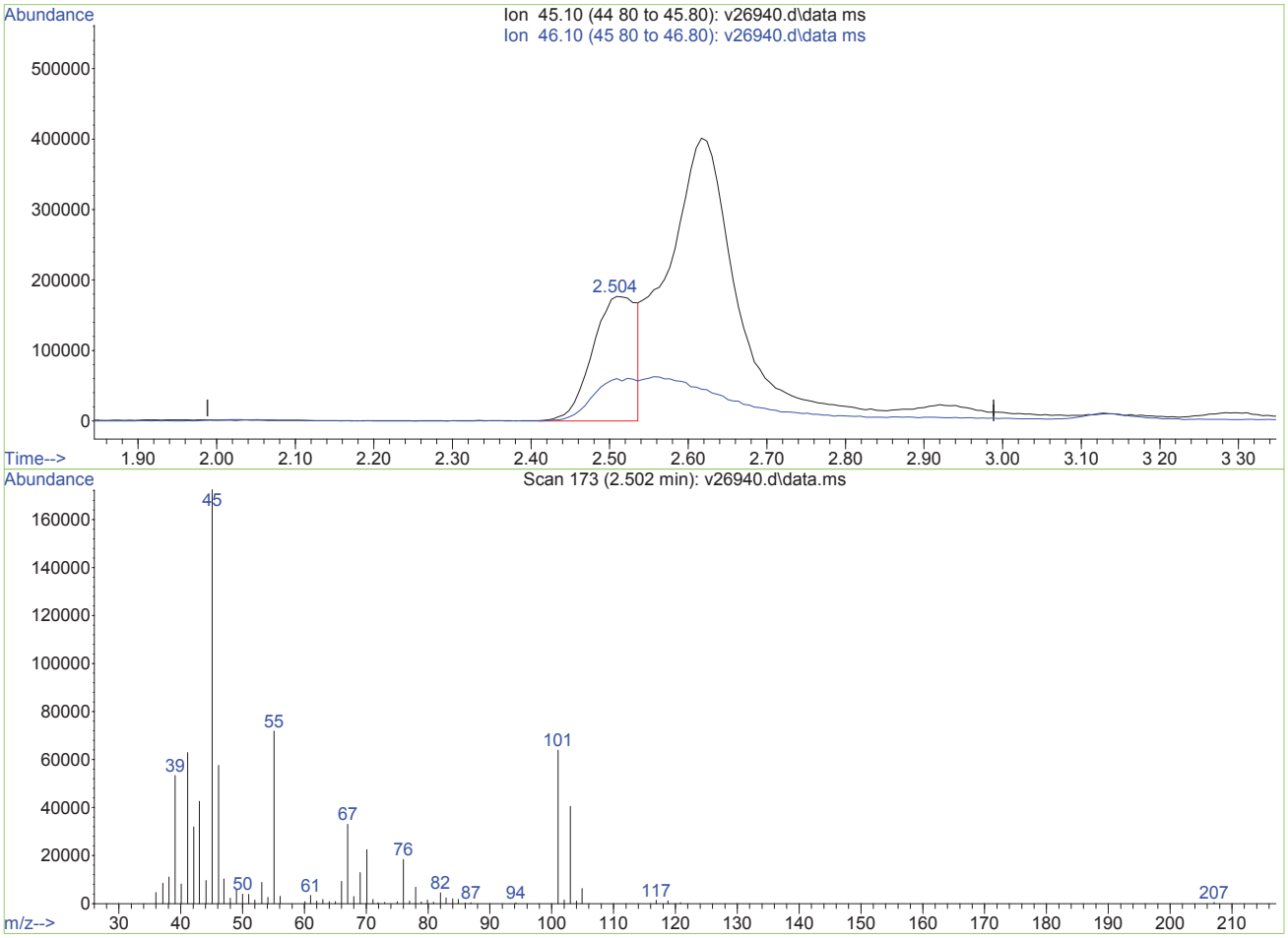
V26940.D edits: Ethanol

SGS ACCUTEST MC27657

Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:50:05 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26940.d\data.ms

(2) Ethanol (p)

2.502min (+0.014) 19824.86ug/L m

response 690608

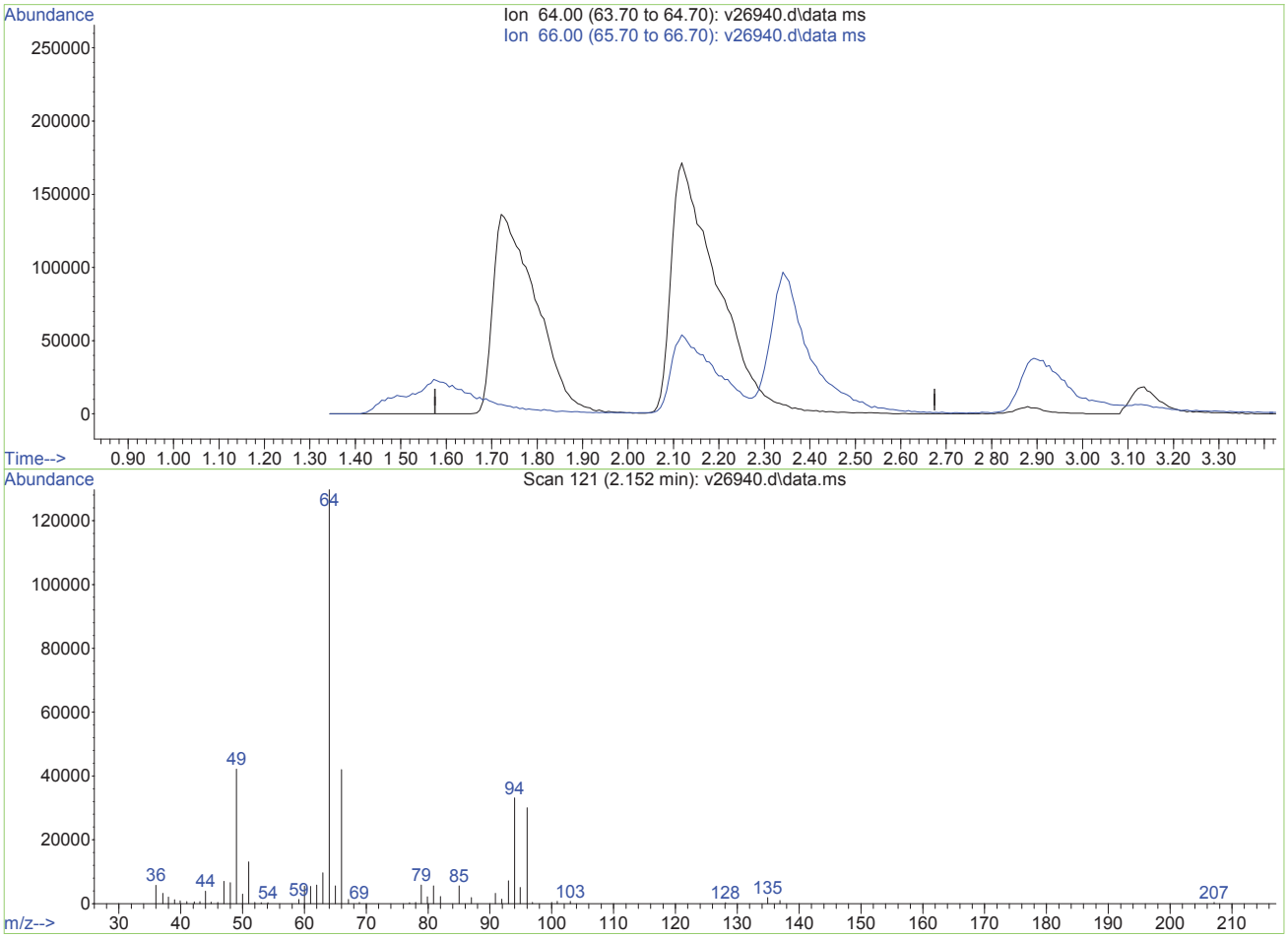
Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26940.D edits: Ethanol

SGS ACCUTEST MC27657

Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:50:05 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26940.d\data.ms

(4) chloroethane (p)

2.155min (-2.155) 0.00ug/L

response 0

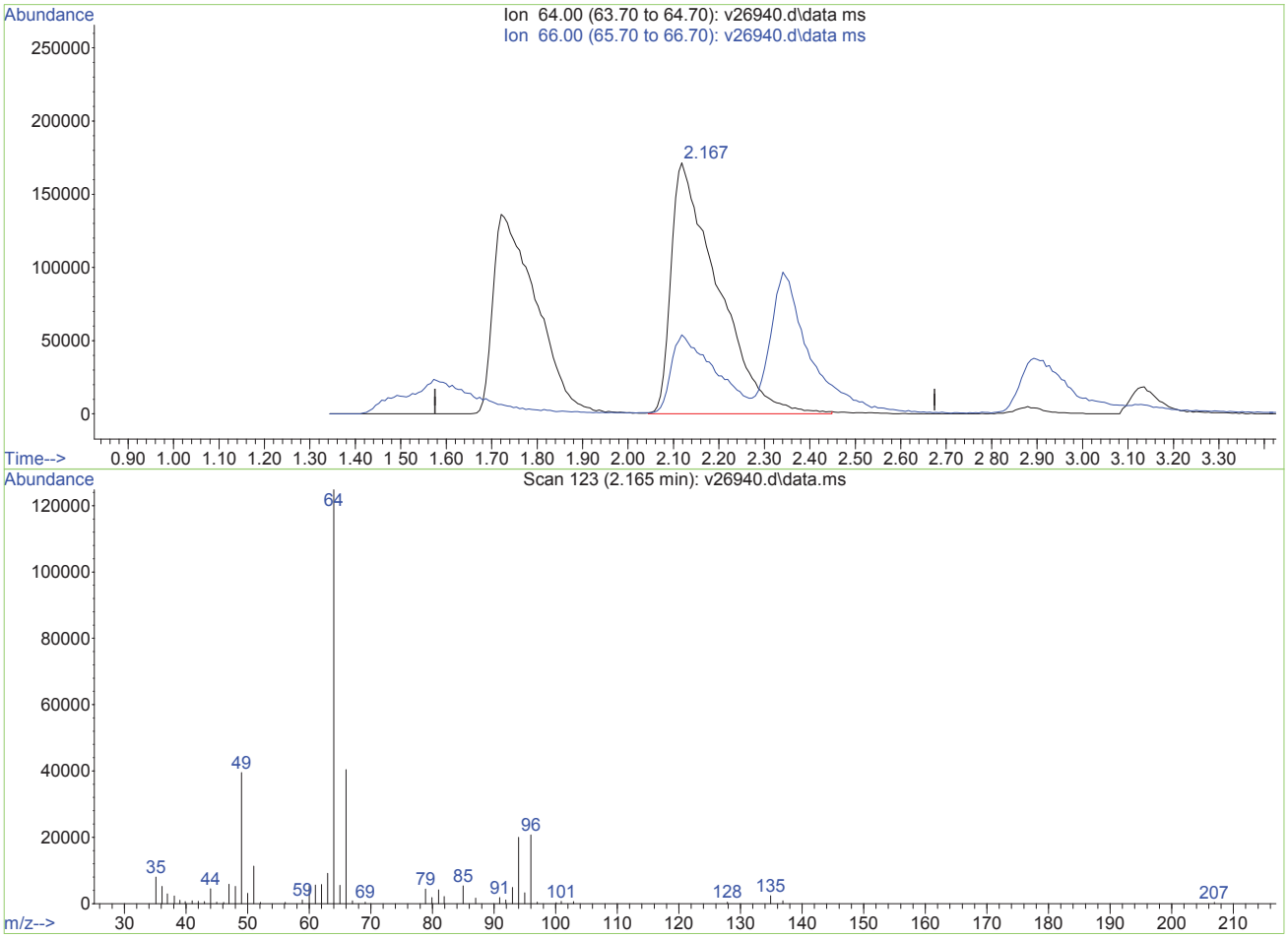
Ion	Exp%	Act%
64.00	100	0.00
66.00	34.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26940.D edits: chloroethane

Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:50:05 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26940.d\data.ms

(4) chloroethane (p)

2.165min (+0.010) 180.75ug/L m

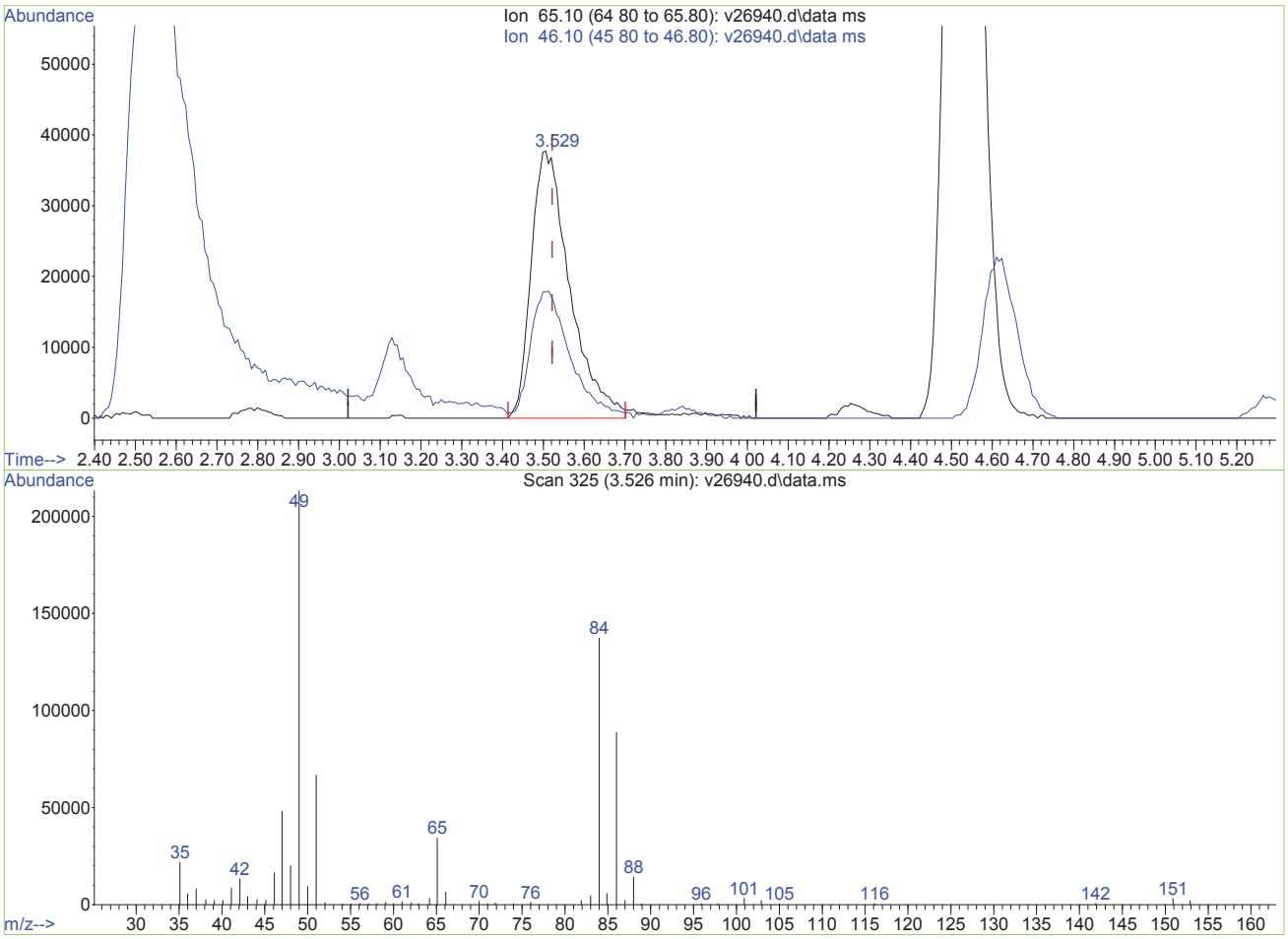
response 1217177

Ion	Exp%	Act%
64.00	100	100
66.00	34.60	32.37
0.00	0.00	0.00
0.00	0.00	0.00

V26940.D edits: chloroethane

Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:56:38 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26940.d\data.ms

(1) tert butyl alcohol-d9 (I)

3.526min (+0.004) 500.00ug/L m

response 248311

Ion	Exp%	Act%
65.10	100	100
46.10	54.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26940.D edits: tert butyl alcohol-d9

Data Path : O:\msv\1\databackup\v140107\
Data File : v26942.d
Acq On : 7 Jan 2014 5:47 pm
Operator : amym
Sample : ic1019-400
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

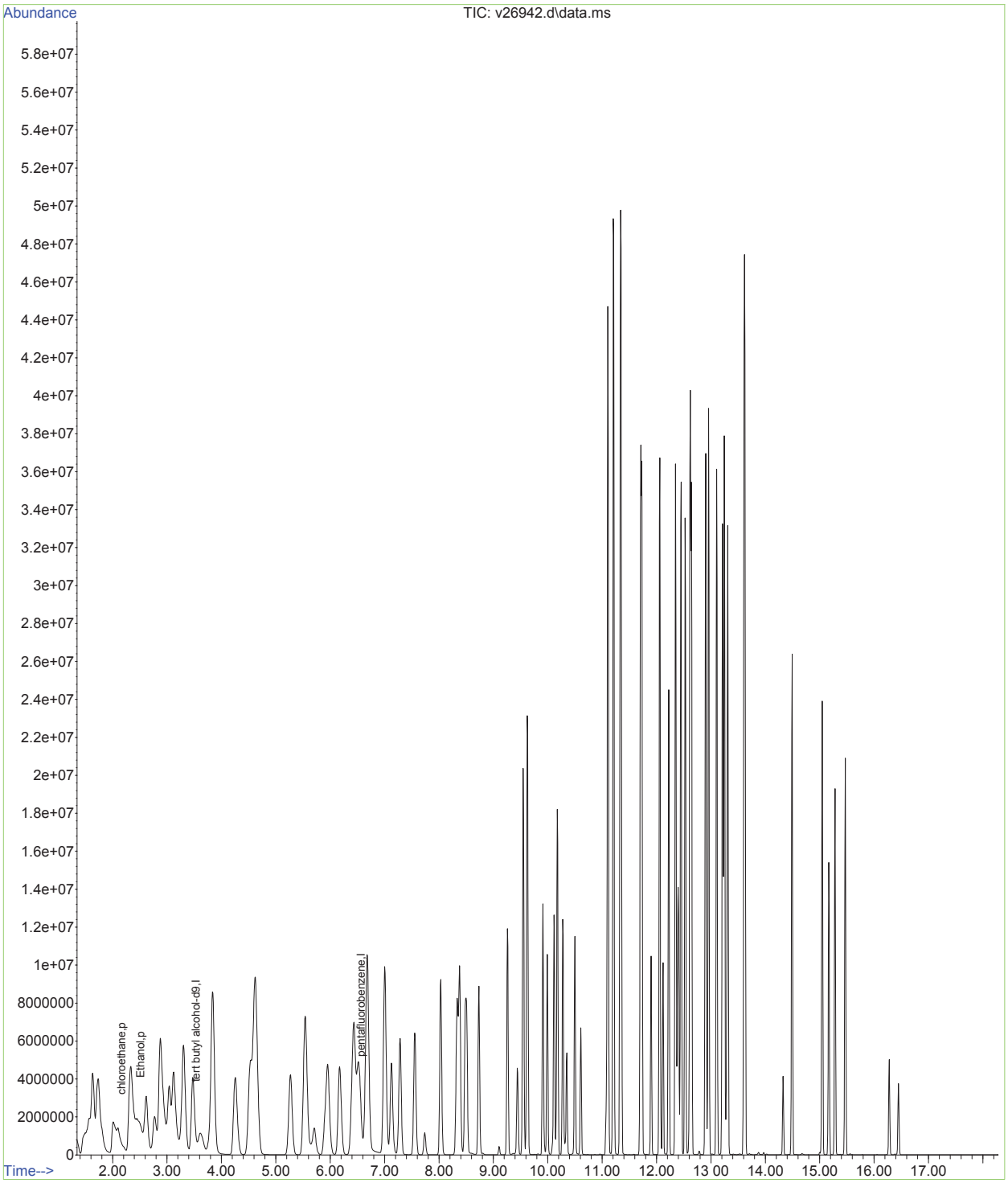
Quant Time: Oct 12 11:57:12 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.528	65	280929	500.00	ug/L	0.00
3) pentafluorobenzene	6.561	168	994052	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.509	45	1732790m	43966.69	ug/L	
4) chloroethane	2.160	64	2471921	305.53	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

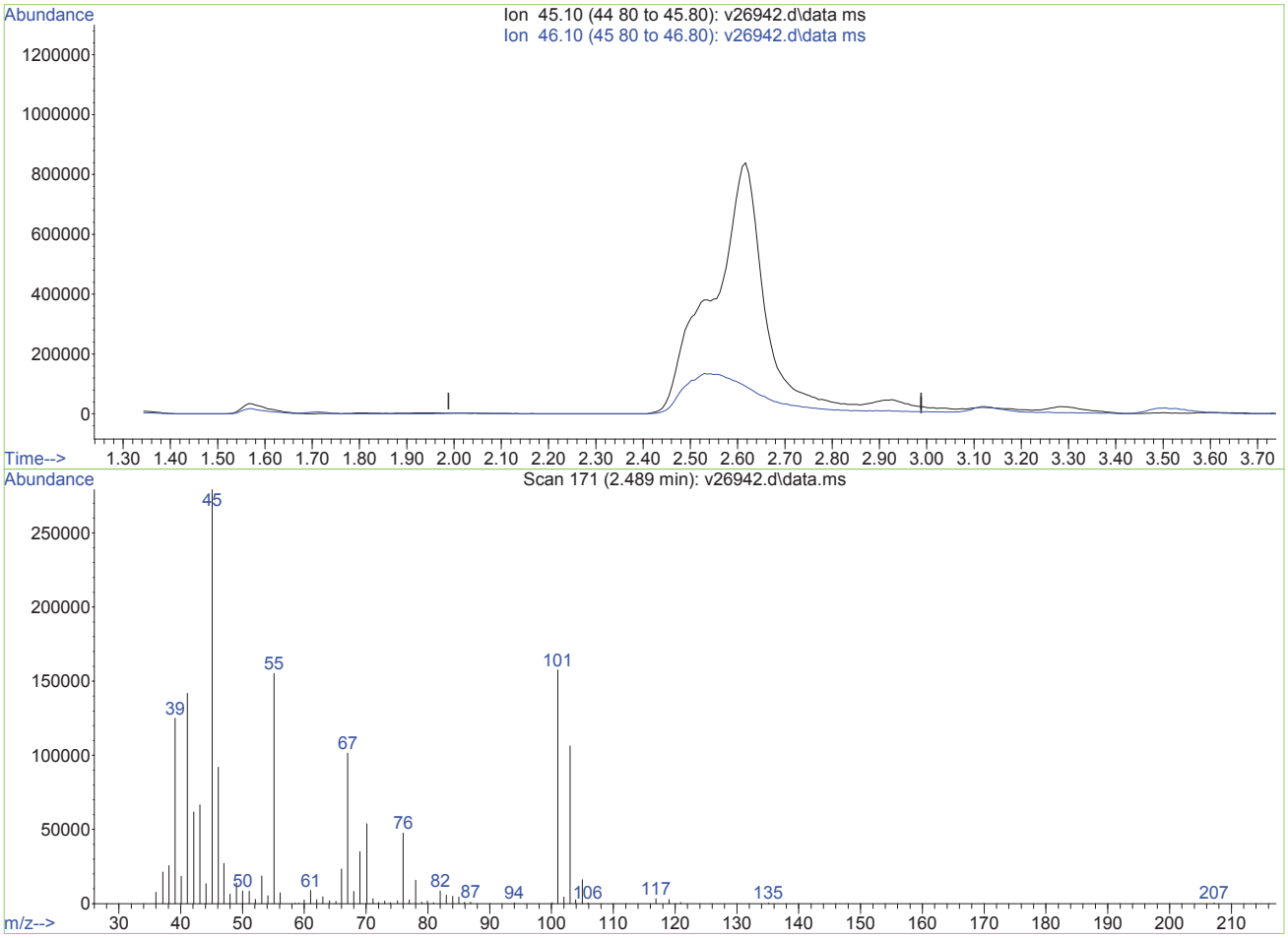
Data Path : O:\msv\1\databackup\v140107\
Data File : v26942.d
Acq On : 7 Jan 2014 5:47 pm
Operator : amym
Sample : ic1019-400
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 12 11:57:12 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Data Path : O:\msv\1\databackup\v140107\
Data File : v26942.d
Acq On : 7 Jan 2014 5:47 pm
Operator : amym
Sample : ic1019-400
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 12 11:50:07 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26942.d\data.ms

(2) Ethanol (p)

2.489min (-2.489) 0.00ug/L

response 0

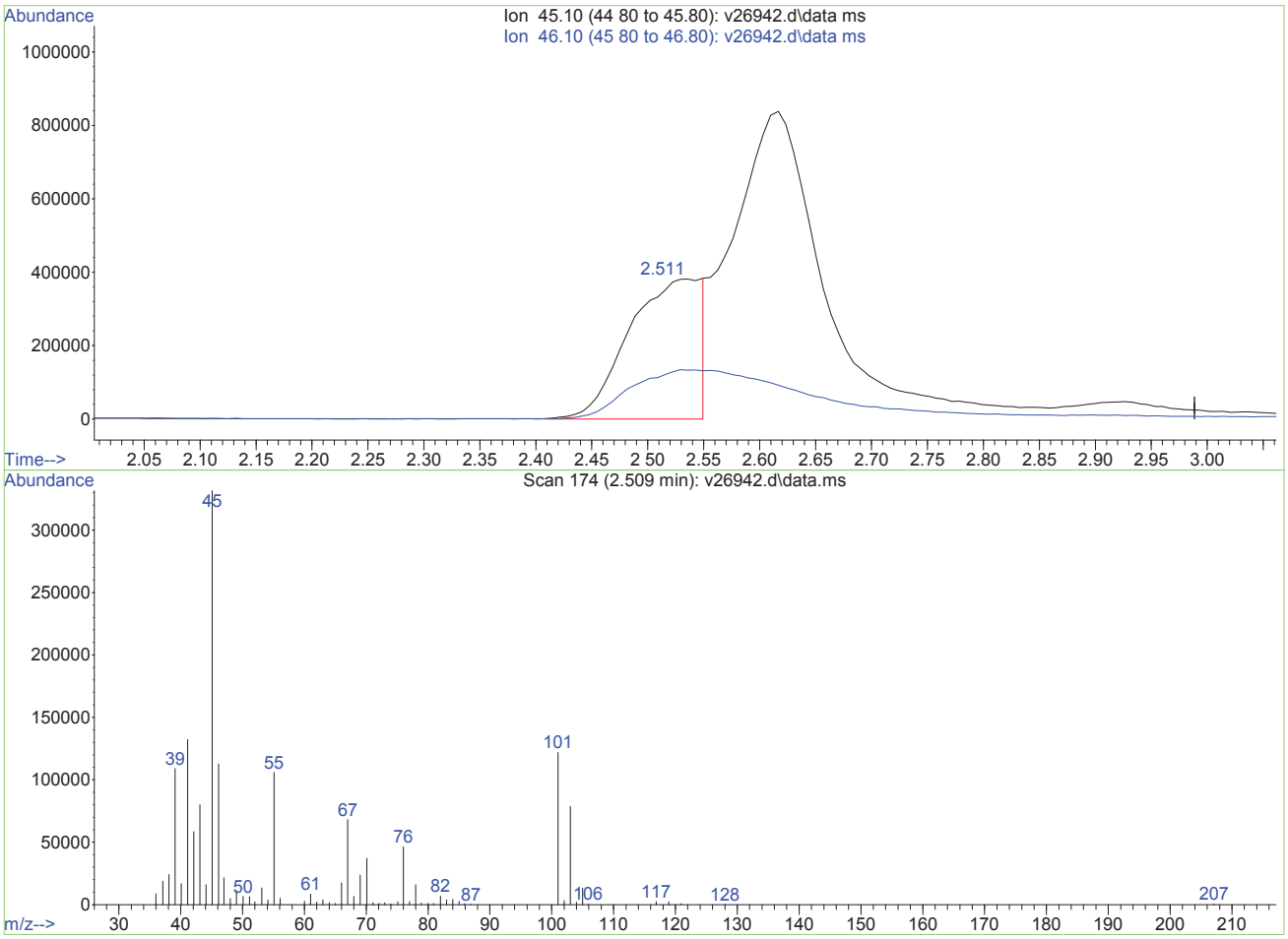
Ion	Exp%	Act%
45.10	100	0.00
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26942.D edits: Ethanol

SGS ACCUTEST MC27657

Data Path : O:\msv\1\databackup\v140107\
Data File : v26942.d
Acq On : 7 Jan 2014 5:47 pm
Operator : amym
Sample : ic1019-400
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 12 11:50:07 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26942.d\data.ms

(2) Ethanol (p)

2.509min (+0.020) 43966.69ug/L m

response 1732790

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26942.D edits: Ethanol

SGS ACCUTEST MC27657

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26944.d
Acq On : 7 Jan 2014 7:05 pm
Operator : amym
Sample : icv1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 12 12:04:13 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

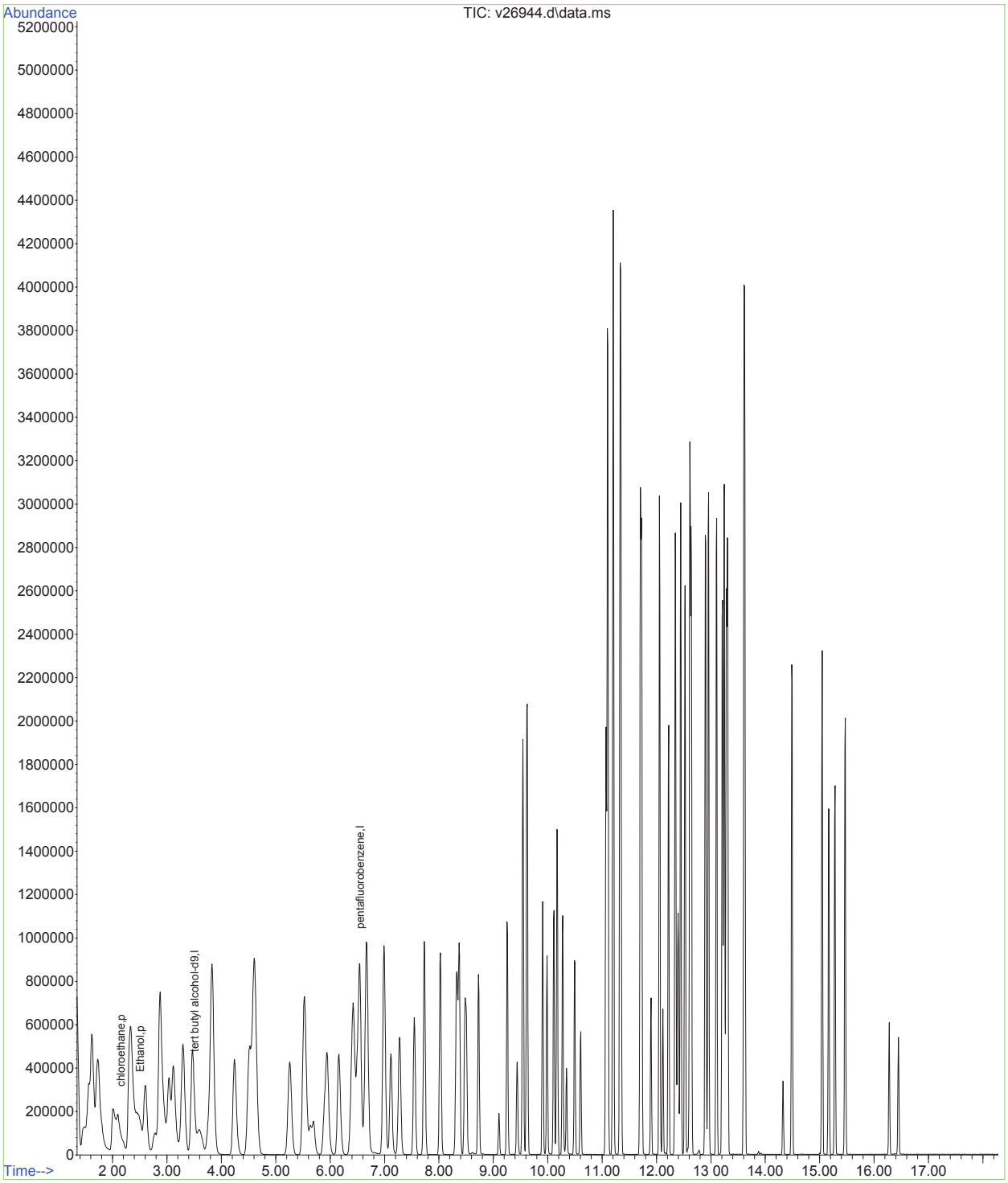
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.508	65	215524	500.00	ug/L	-0.01
3) pentafluorobenzene	6.550	168	735695	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.502	45	219095m	6281.66	ug/L	
4) chloroethane	2.149	64	314843	55.64	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST MC27657

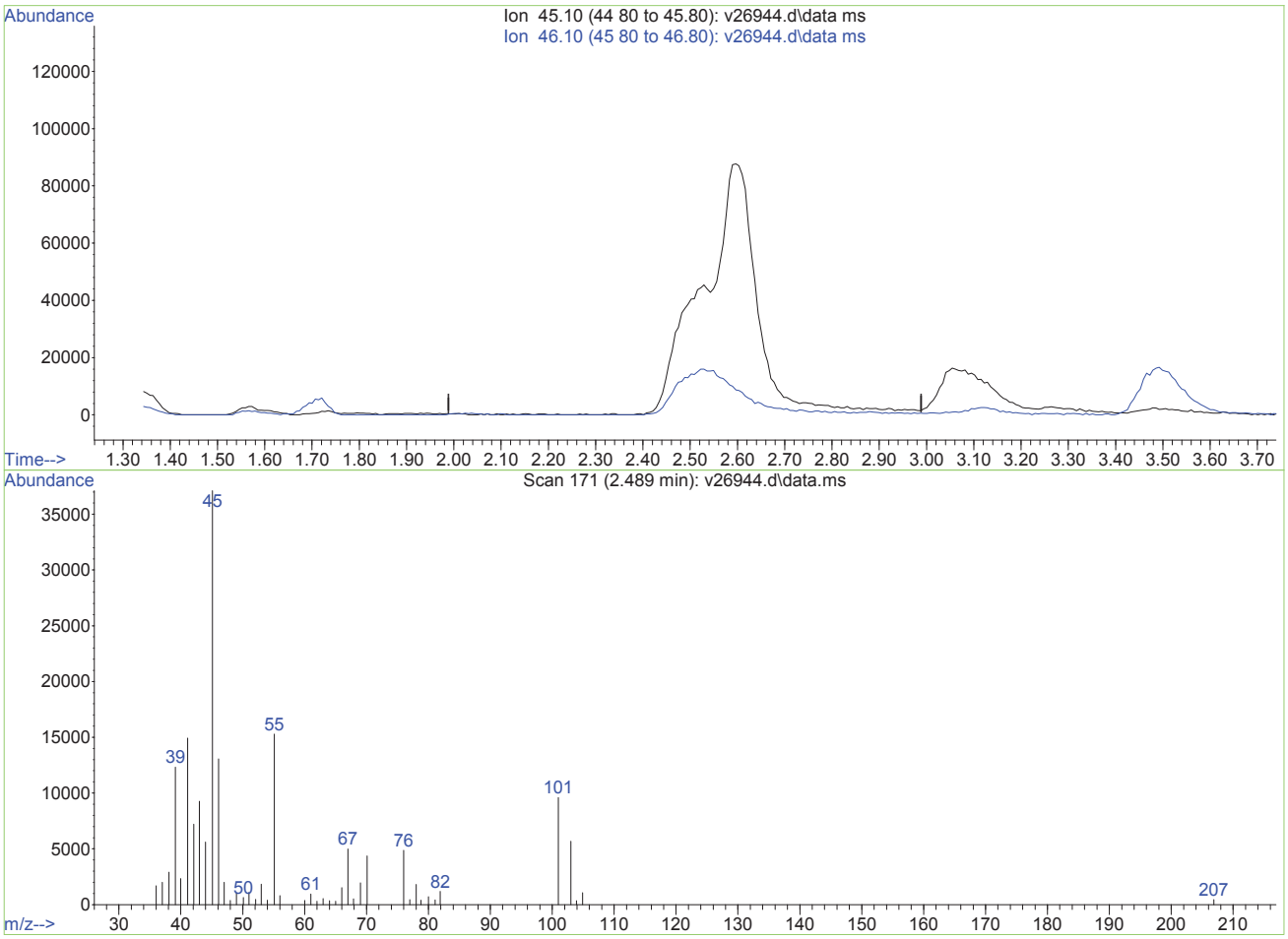
Data Path : O:\msv\1\databackup\v140107\
Data File : v26944.d
Acq On : 7 Jan 2014 7:05 pm
Operator : amym
Sample : icv1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 12 12:04:13 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Data Path : O:\msv\1\databackup\v140107\
Data File : v26944.d
Acq On : 7 Jan 2014 7:05 pm
Operator : amym
Sample : icv1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 12 12:03:55 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



TIC: v26944.d\data.ms

(2) Ethanol (p)

2.489min (-2.489) 0.00ug/L

response 0

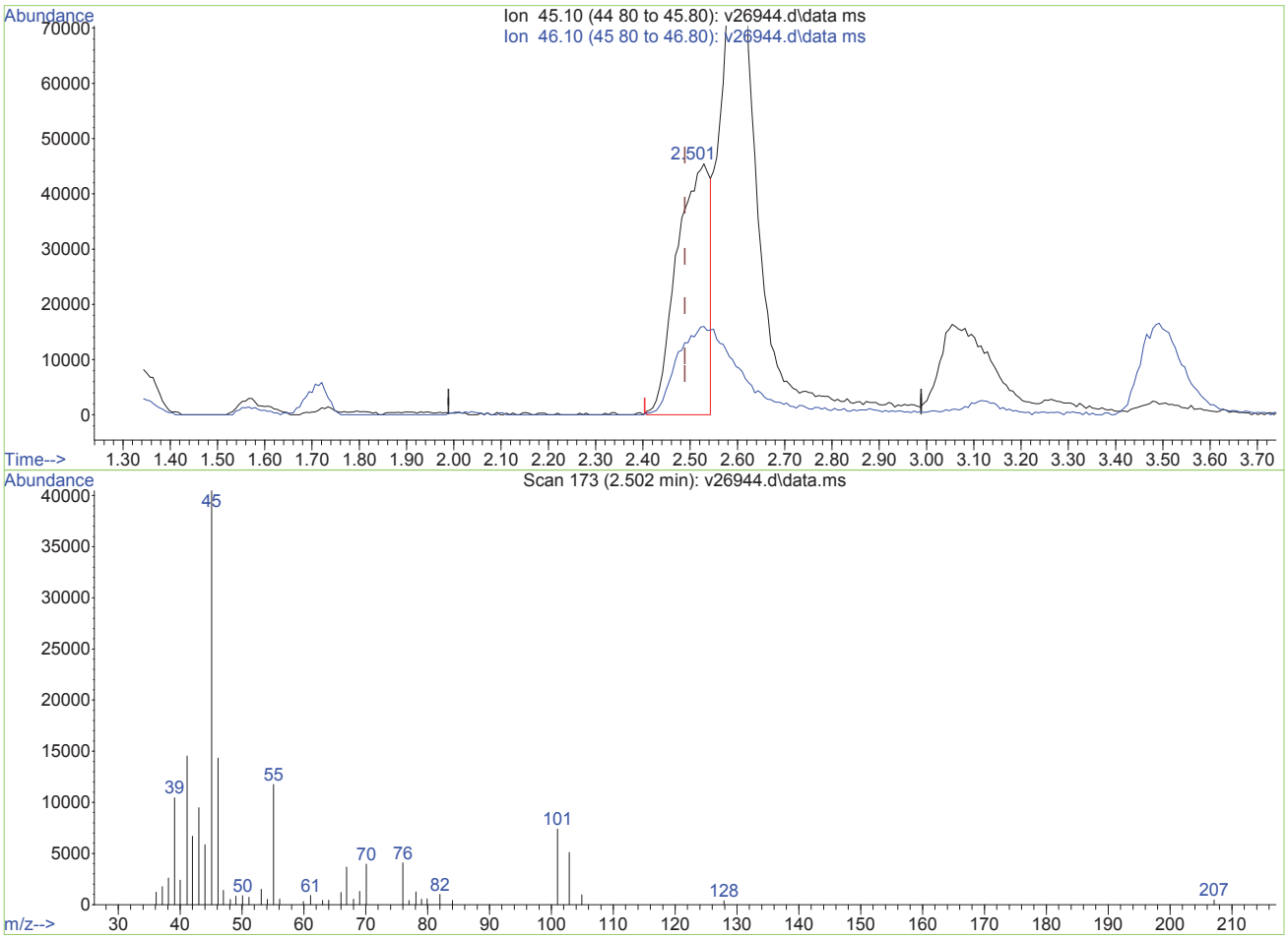
Ion	Exp%	Act%
45.10	100	0.00
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26944.D edits: Ethanol

Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26944.d
Acq On : 7 Jan 2014 7:05 pm
Operator : amym
Sample : icv1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 12 12:03:55 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



TIC: v26944.d\data.ms

(2) Ethanol (p)

2.502min (+0.013) 6281.66ug/L m

response 219095

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26944.D edits: Ethanol

SGS ACCUTEST MC27657

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140116\
Data File : v27120.d
Acq On : 16 Jan 2014 10:26 am
Operator : amym
Sample : cc1019-50
Misc : MS30964,MSV1025,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 17 09:36:24 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

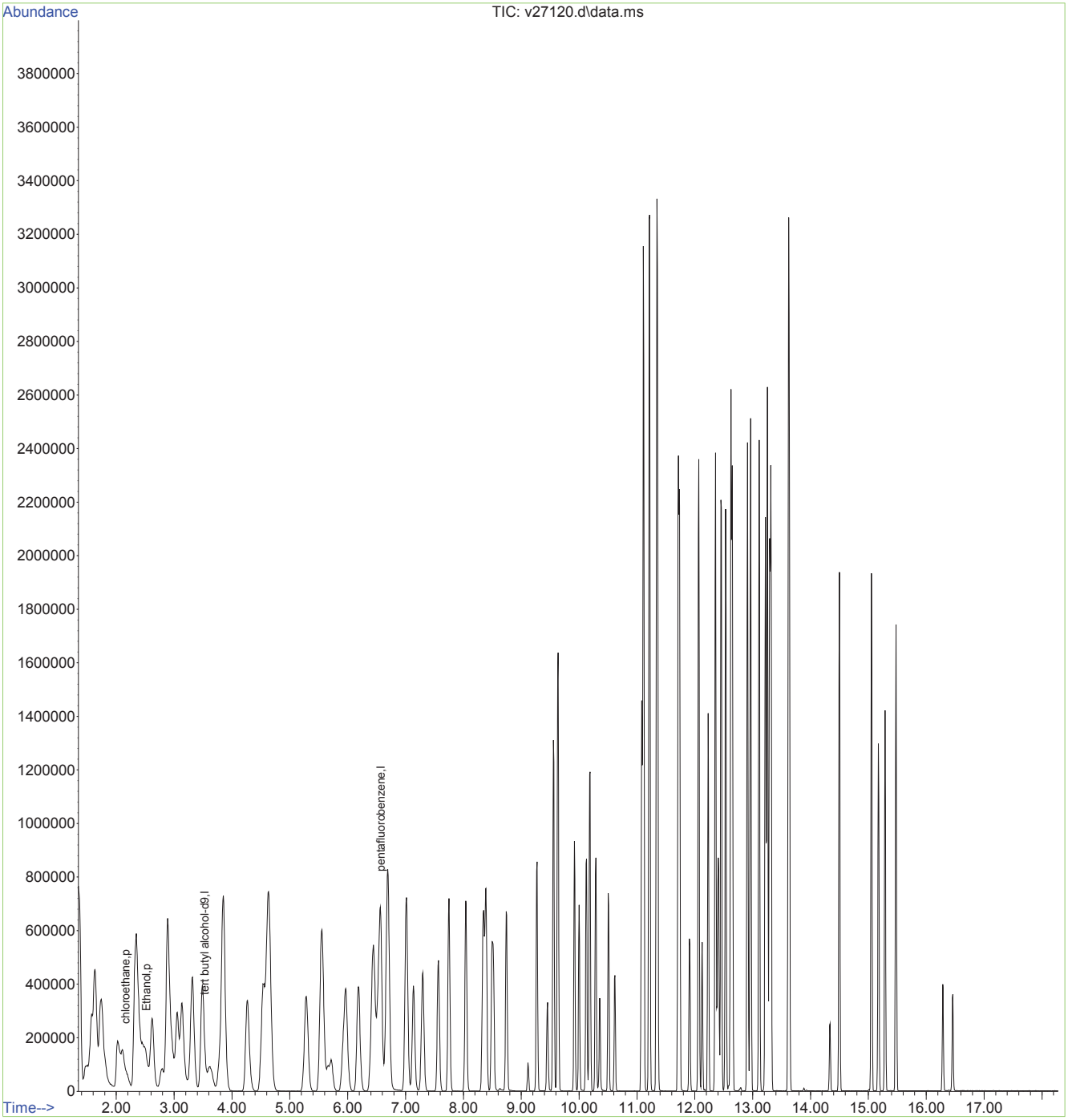
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.527	65	157364	500.00	ug/L	0.00
3) pentafluorobenzene	6.573	168	538424	50.00	ug/L	0.01
Target Compounds						Qvalue
2) Ethanol	2.519	45	217871	8728.67	ug/L	# 1
4) chloroethane	2.158	64	252515	61.06	ug/L	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140116\
Data File : v27120.d
Acq On : 16 Jan 2014 10:26 am
Operator : amym
Sample : cc1019-50
Misc : MS30964,MSV1025,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 17 09:36:24 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140117\
Data File : v27151.d
Acq On : 17 Jan 2014 10:03 am
Operator : amym
Sample : cc1019-50
Misc : MS30964,MSV1026,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 17 11:28:06 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

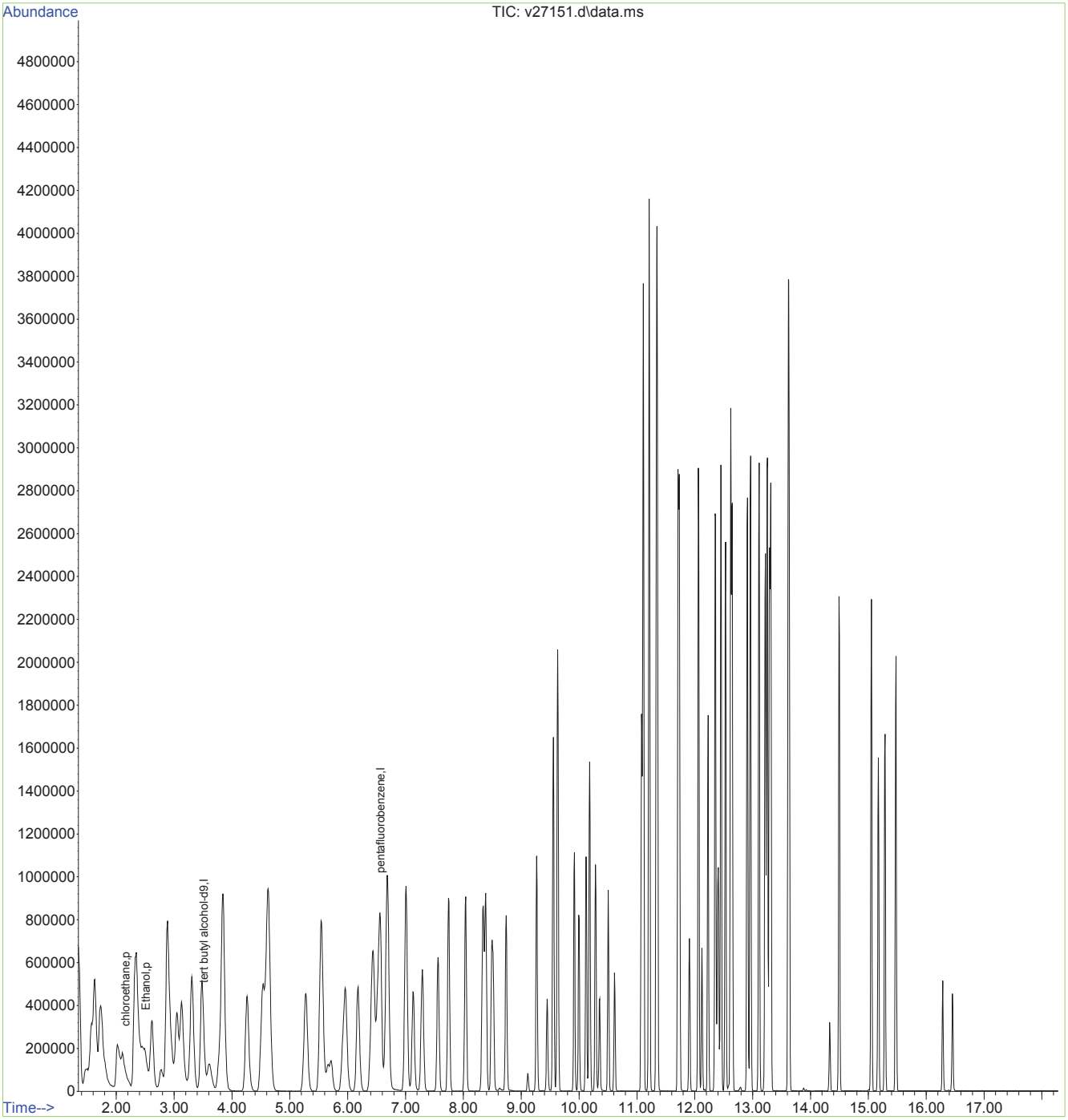
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.515	65	204664	500.00	ug/L	0.00
3) pentafluorobenzene	6.567	168	696176	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.506	45	251372	7689.27	ug/L	# 1
4) chloroethane	2.156	64	298196	55.69	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140117\
Data File : v27151.d
Acq On : 17 Jan 2014 10:03 am
Operator : amym
Sample : cc1019-50
Misc : MS30964,MSV1026,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 17 11:28:06 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140116\
Data File : v27126.d
Acq On : 16 Jan 2014 1:03 pm
Operator : amym
Sample : mc27657-4
Misc : MS30978,MSV1025,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 17 09:40:23 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.523	65	127864	500.00	ug/L	0.00
3) pentafluorobenzene	6.575	168	419512	50.00	ug/L	0.02

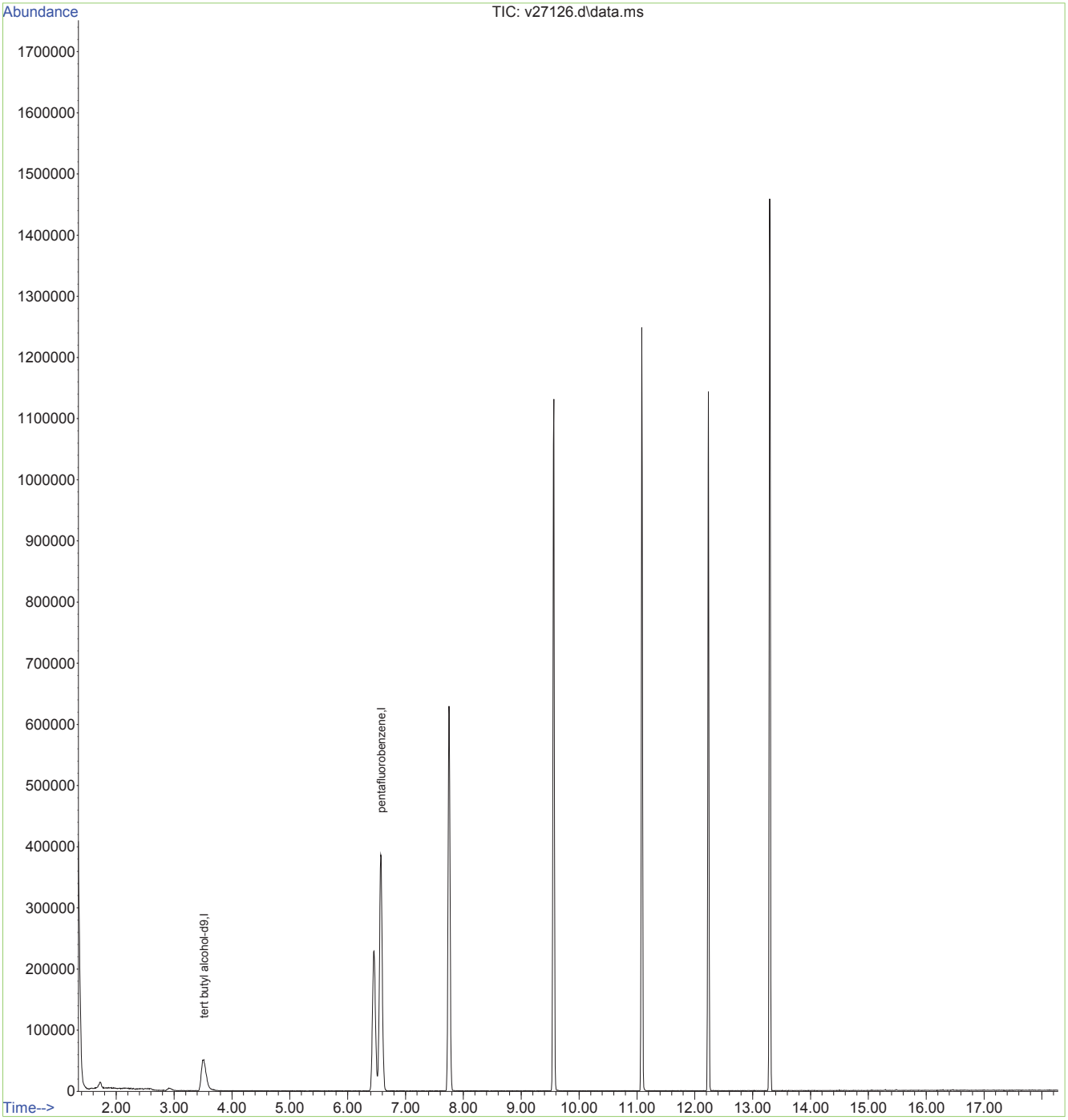
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140116\
Data File : v27126.d
Acq On : 16 Jan 2014 1:03 pm
Operator : amym
Sample : mc27657-4
Misc : MS30978,MSV1025,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 17 09:40:23 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140117\
Data File : v27157.d
Acq On : 17 Jan 2014 12:40 pm
Operator : amym
Sample : MC27657-1
Misc : MS30978,MSV1026,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 17 11:38:10 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.524	65	187209	500.00	ug/L	0.00
3) pentafluorobenzene	6.574	168	553425	50.00	ug/L	0.02

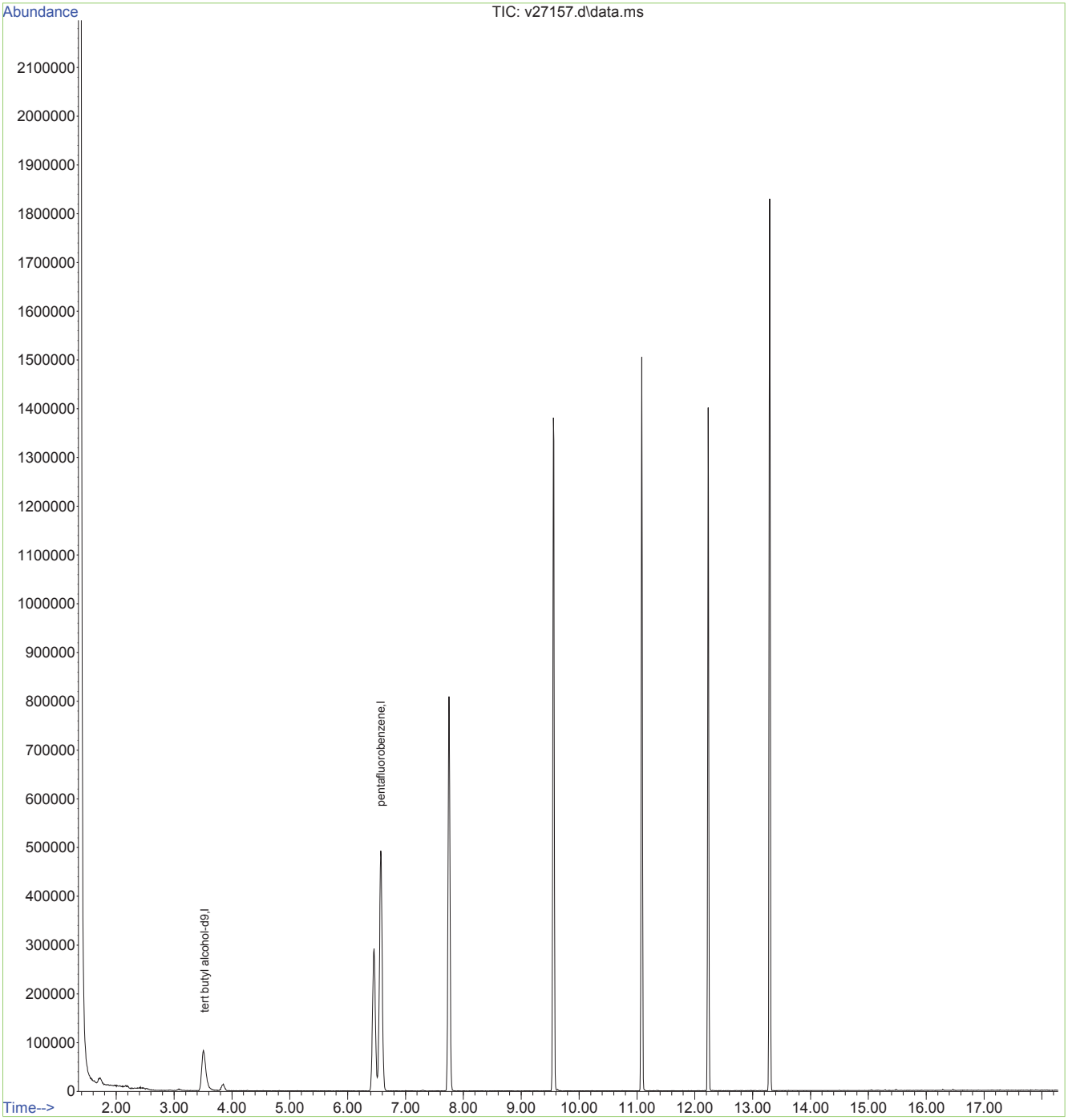
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140117\
Data File : v27157.d
Acq On : 17 Jan 2014 12:40 pm
Operator : amym
Sample : MC27657-1
Misc : MS30978,MSV1026,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 17 11:38:10 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140117\
Data File : v27158.d
Acq On : 17 Jan 2014 1:06 pm
Operator : amym
Sample : MC27657-2
Misc : MS30978,MSV1026,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 17 11:38:28 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.521	65	175812	500.00	ug/L	0.00
3) pentafluorobenzene	6.573	168	522672	50.00	ug/L	0.01

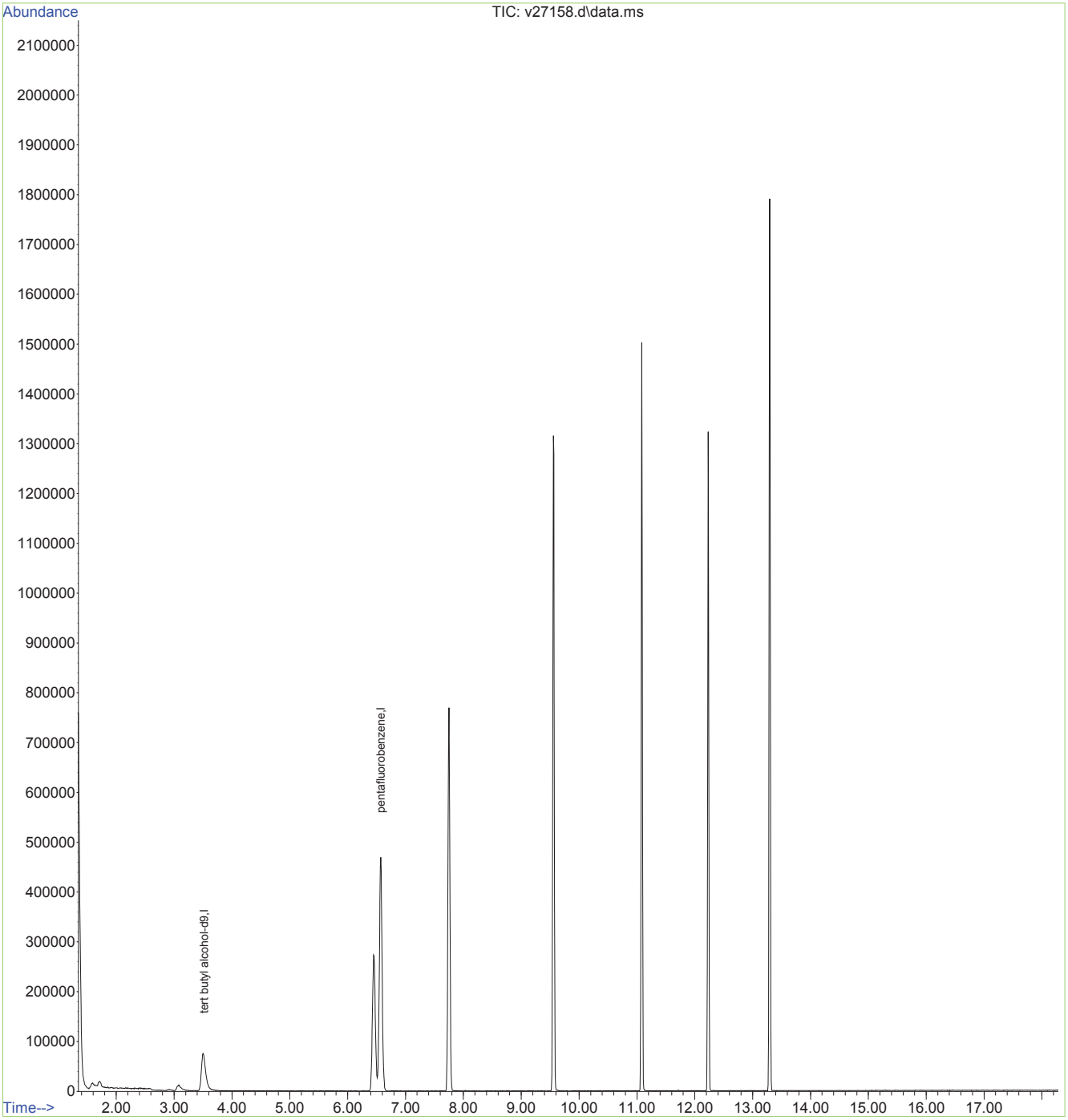
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140117\
Data File : v27158.d
Acq On : 17 Jan 2014 1:06 pm
Operator : amym
Sample : MC27657-2
Misc : MS30978,MSV1026,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 17 11:38:28 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140117\
Data File : v27159.d
Acq On : 17 Jan 2014 1:33 pm
Operator : amym
Sample : MC27657-3
Misc : MS30978,MSV1026,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 17 11:38:50 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.522	65	172316	500.00	ug/L	0.00
3) pentafluorobenzene	6.574	168	532353	50.00	ug/L	0.02

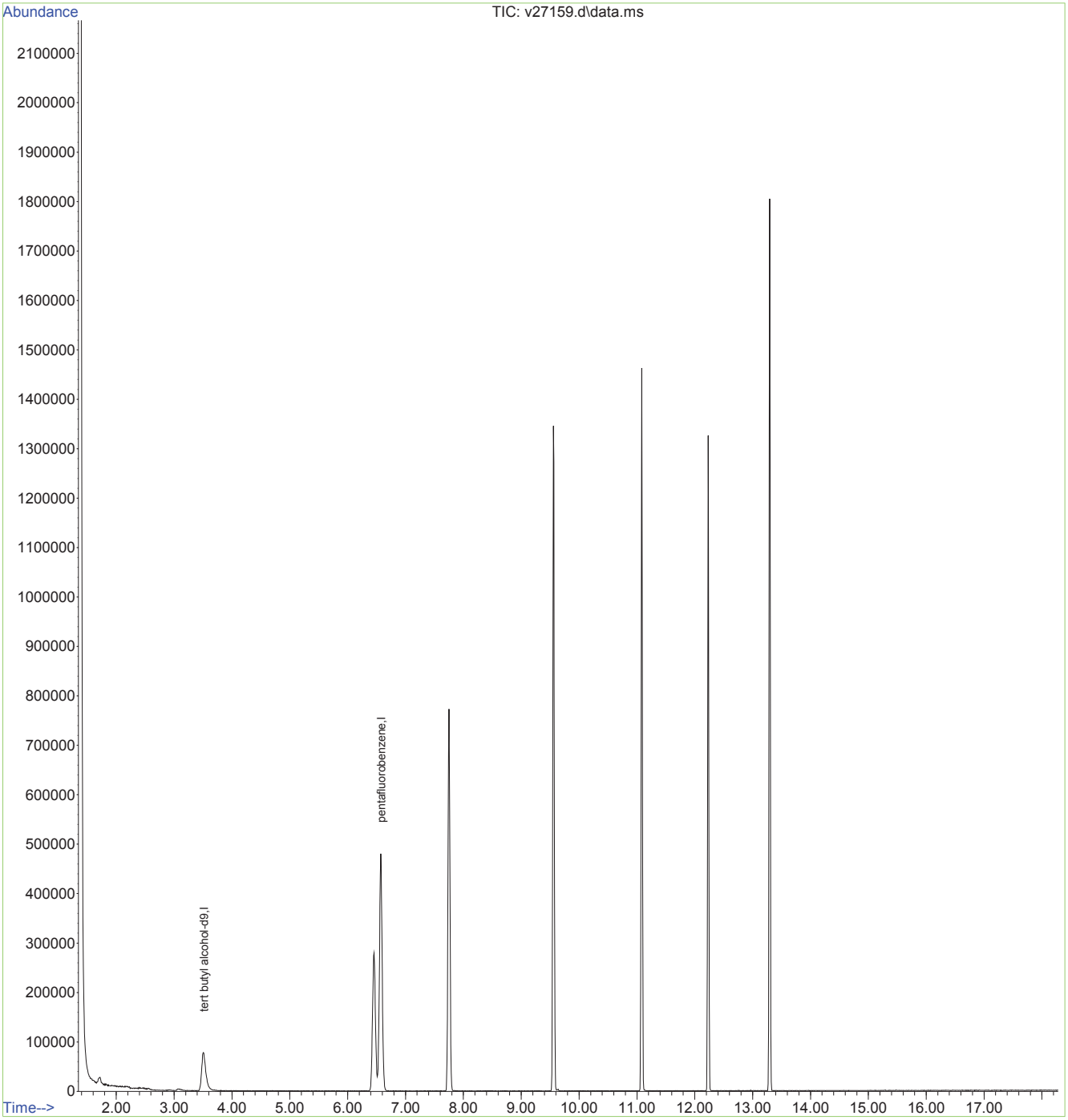
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140117\
Data File : v27159.d
Acq On : 17 Jan 2014 1:33 pm
Operator : amym
Sample : MC27657-3
Misc : MS30978,MSV1026,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 17 11:38:50 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140116\
Data File : v27121.d
Acq On : 16 Jan 2014 10:52 am
Operator : amym
Sample : bs
Misc : MS30964,MSV1025,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 17 09:38:53 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.526	65	164214	500.00	ug/L	0.00
3) pentafluorobenzene	6.574	168	542731	50.00	ug/L	0.02
Target Compounds						Qvalue
2) Ethanol	2.517	45	219548	8412.49	ug/L	# 1
4) chloroethane	2.159	64	248903	59.69	ug/L	93

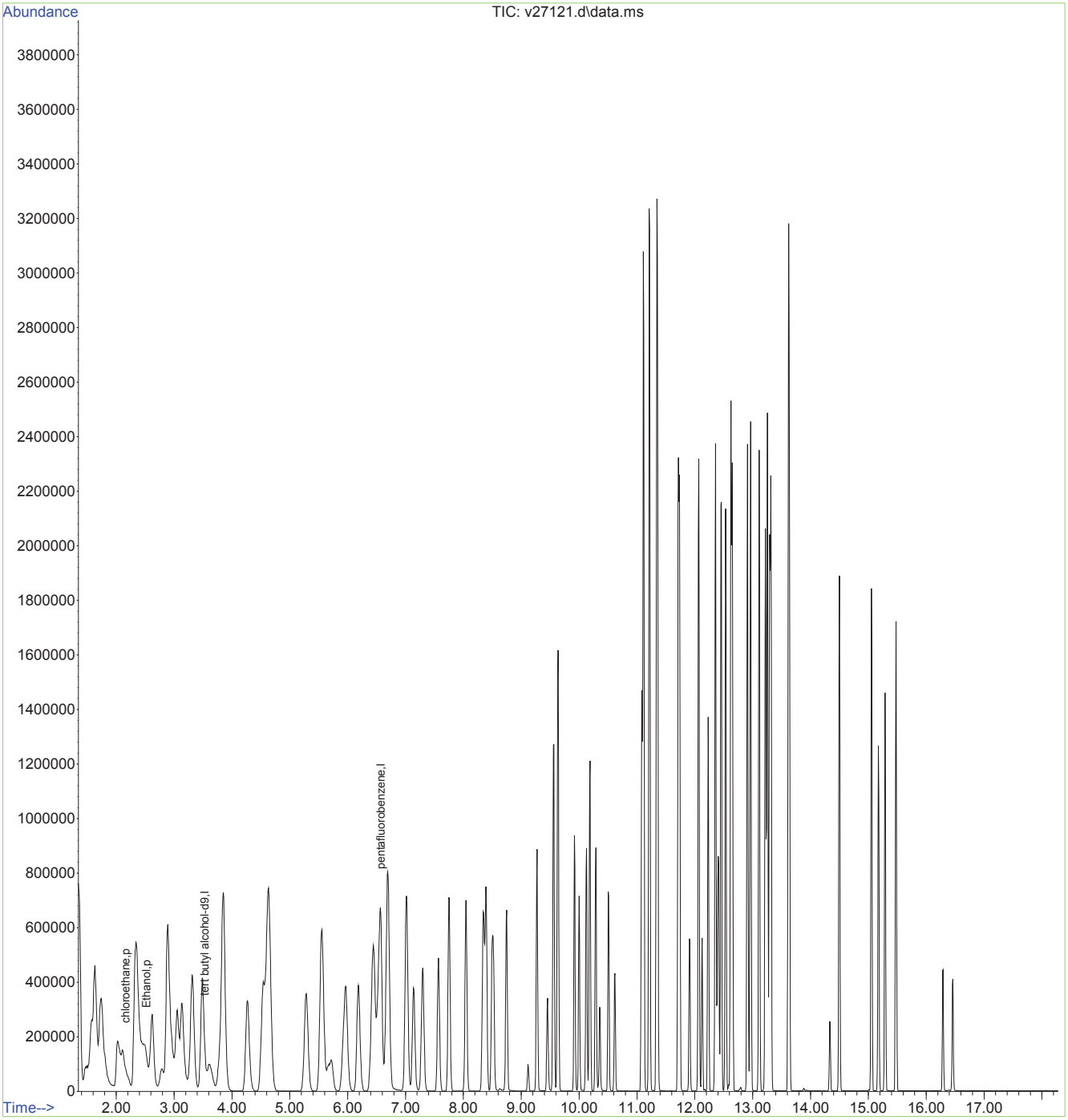
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST MC27657

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140116\
Data File : v27121.d
Acq On : 16 Jan 2014 10:52 am
Operator : amym
Sample : bs
Misc : MS30964,MSV1025,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 17 09:38:53 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140116\
Data File : v27124.d
Acq On : 16 Jan 2014 12:11 pm
Operator : amym
Sample : mb
Misc : MS30978,MSV1025,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 17 09:39:35 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.534	65	133105	500.00	ug/L	0.01
3) pentafluorobenzene	6.582	168	424940	50.00	ug/L	0.02

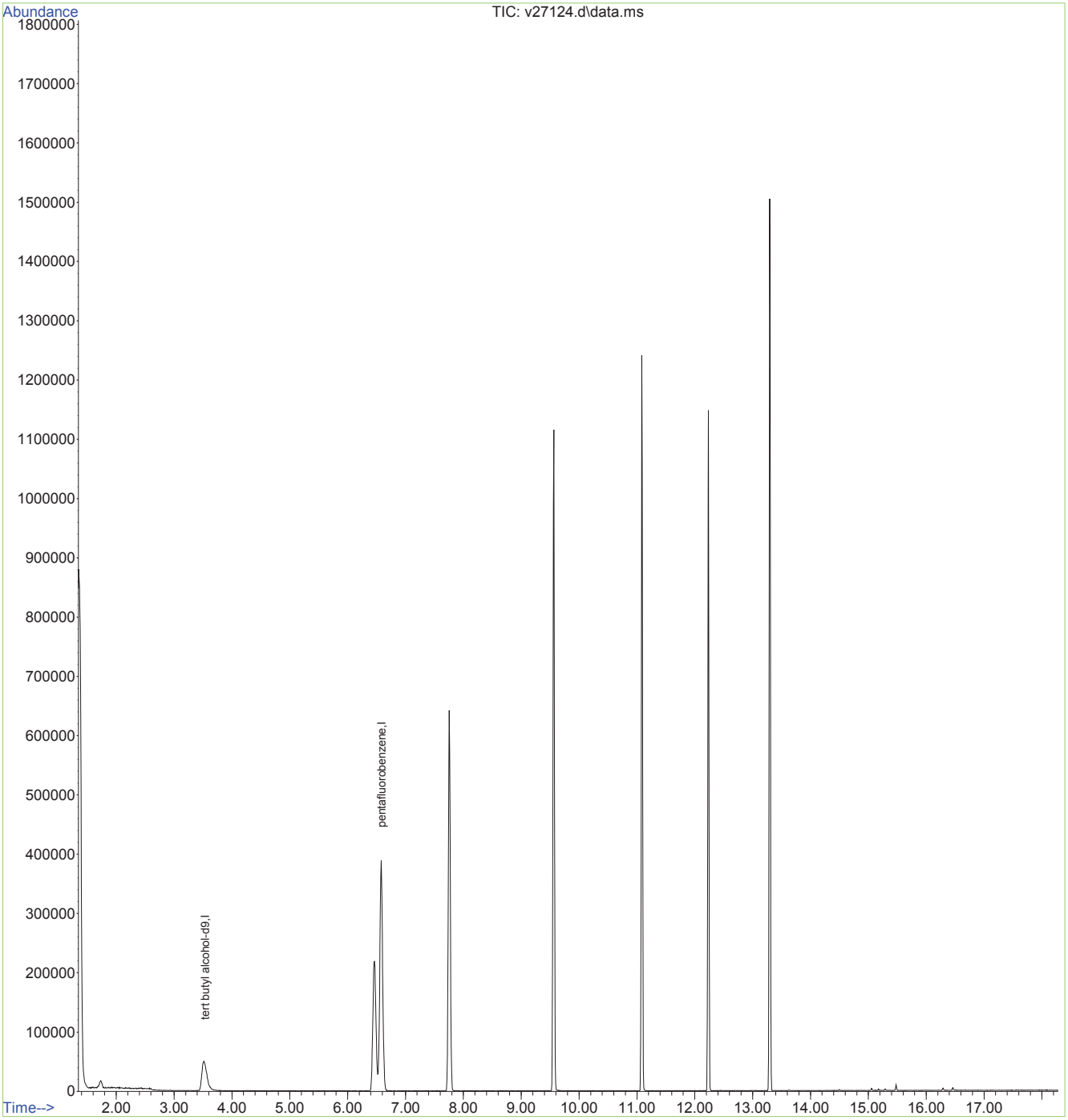
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140116\
Data File : v27124.d
Acq On : 16 Jan 2014 12:11 pm
Operator : amym
Sample : mb
Misc : MS30978,MSV1025,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 17 09:39:35 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140116\
Data File : v27141.d
Acq On : 16 Jan 2014 7:38 pm
Operator : amym
Sample : mc27652-9ms
Misc : MS30978,MSV1025,,,,5,5
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Nov 17 09:46:19 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

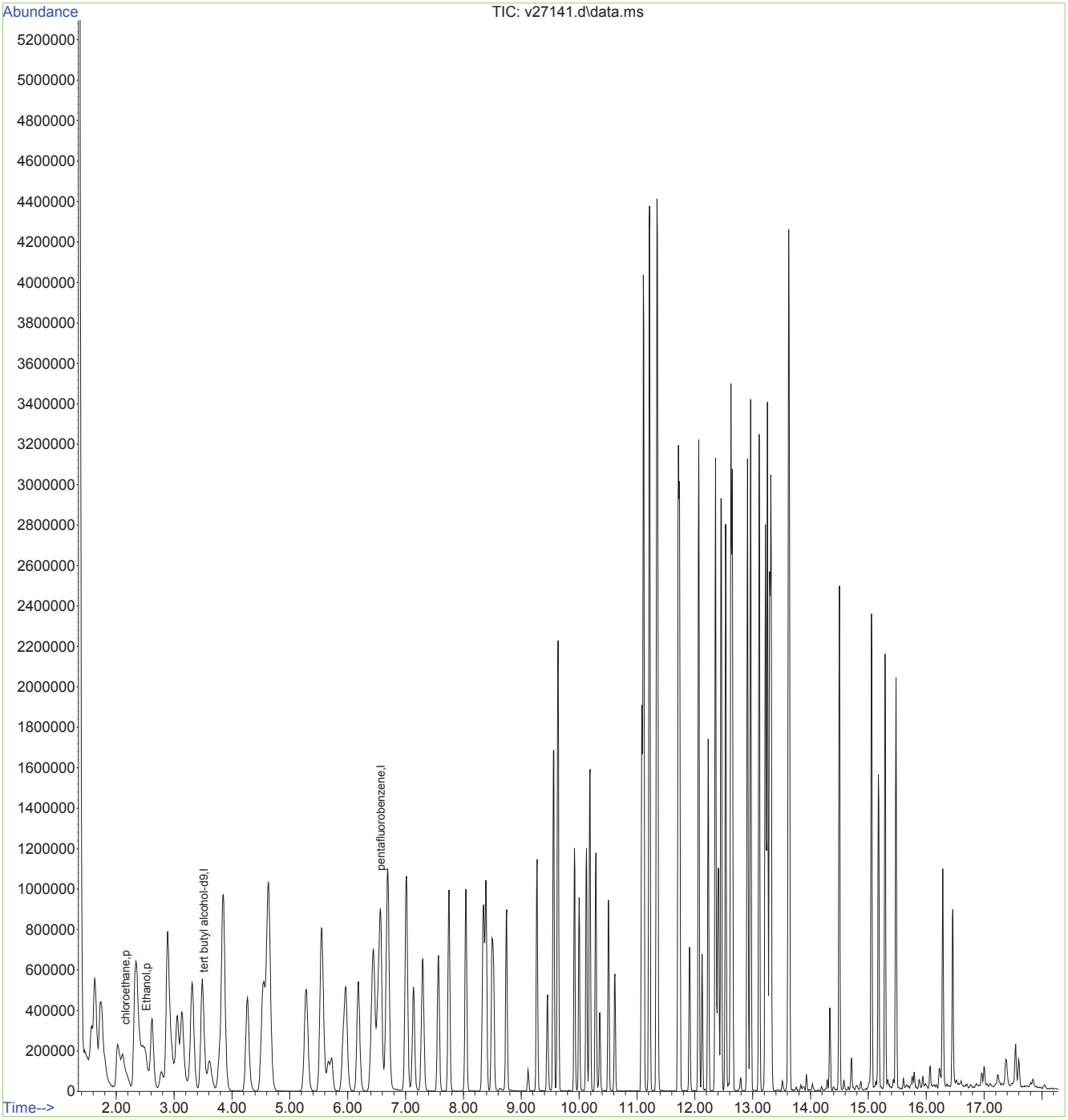
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.515	65	227645	500.00	ug/L	0.00
3) pentafluorobenzene	6.572	168	731482	50.00	ug/L	0.01
Target Compounds						Qvalue
2) Ethanol	2.513	45	317668	8801.50	ug/L	# 1
4) chloroethane	2.156	64	319072	56.73	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140116\
Data File : v27141.d
Acq On : 16 Jan 2014 7:38 pm
Operator : amym
Sample : mc27652-9ms
Misc : MS30978,MSV1025,,,,5,5
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Nov 17 09:46:19 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140116\
Data File : v27142.d
Acq On : 16 Jan 2014 8:04 pm
Operator : amym
Sample : mc27652-9msd
Misc : MS30978,MSV1025,,,,5,5
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Nov 17 09:47:04 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

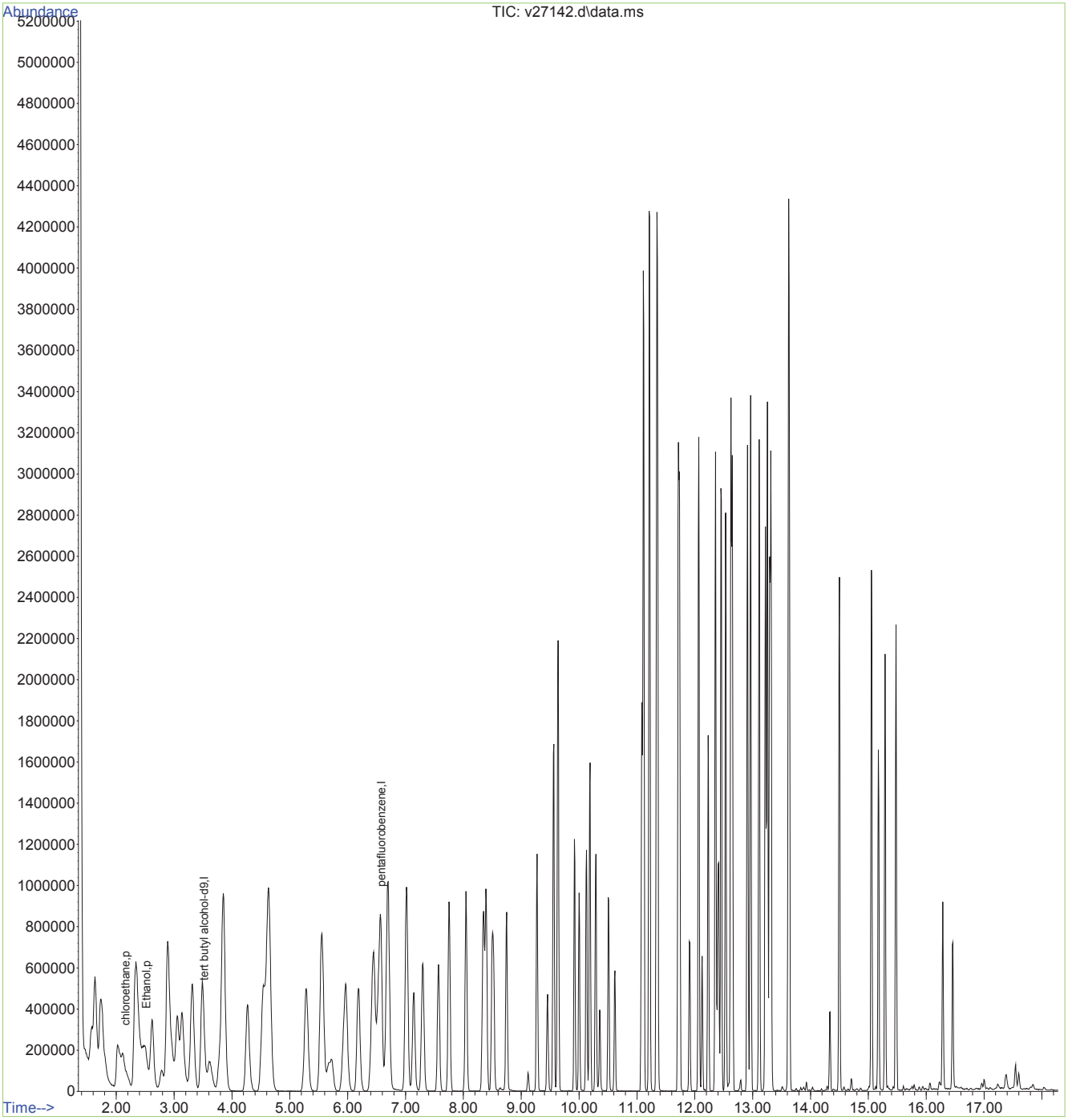
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.520	65	231462	500.00	ug/L	0.00
3) pentafluorobenzene	6.575	168	731385	50.00	ug/L	0.02
Target Compounds						Qvalue
2) Ethanol	2.516	45	315311	8580.73	ug/L	# 1
4) chloroethane	2.160	64	312945	55.63	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140116\
Data File : v27142.d
Acq On : 16 Jan 2014 8:04 pm
Operator : amym
Sample : mc27652-9msd
Misc : MS30978,MSV1025,,,,5,5
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Nov 17 09:47:04 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140117\
Data File : v27151.d
Acq On : 17 Jan 2014 10:03 am
Operator : amym
Sample : cc1019-50
Misc : MS30964,MSV1026,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 17 11:28:06 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

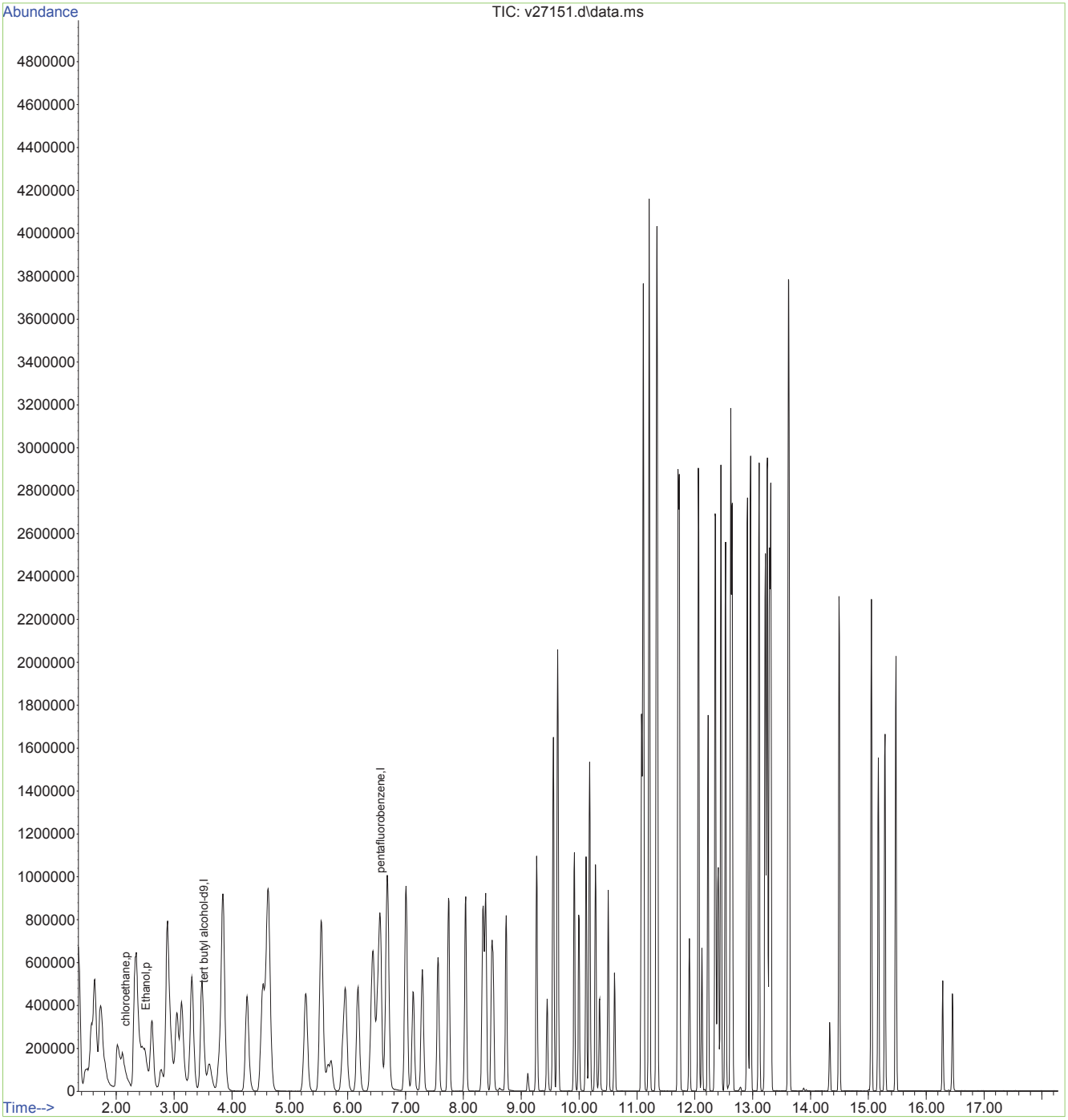
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.515	65	204664	500.00	ug/L	0.00
3) pentafluorobenzene	6.567	168	696176	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.506	45	251372	7689.27	ug/L	# 1
4) chloroethane	2.156	64	298196	55.69	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140117\
Data File : v27151.d
Acq On : 17 Jan 2014 10:03 am
Operator : amym
Sample : cc1019-50
Misc : MS30964,MSV1026,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 17 11:28:06 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140117\
Data File : v27155.d
Acq On : 17 Jan 2014 11:47 am
Operator : amym
Sample : mb
Misc : MS30964,MSV1026,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 17 11:34:06 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.525	65	175692	500.00	ug/L	0.00
3) pentafluorobenzene	6.574	168	552657	50.00	ug/L	0.01

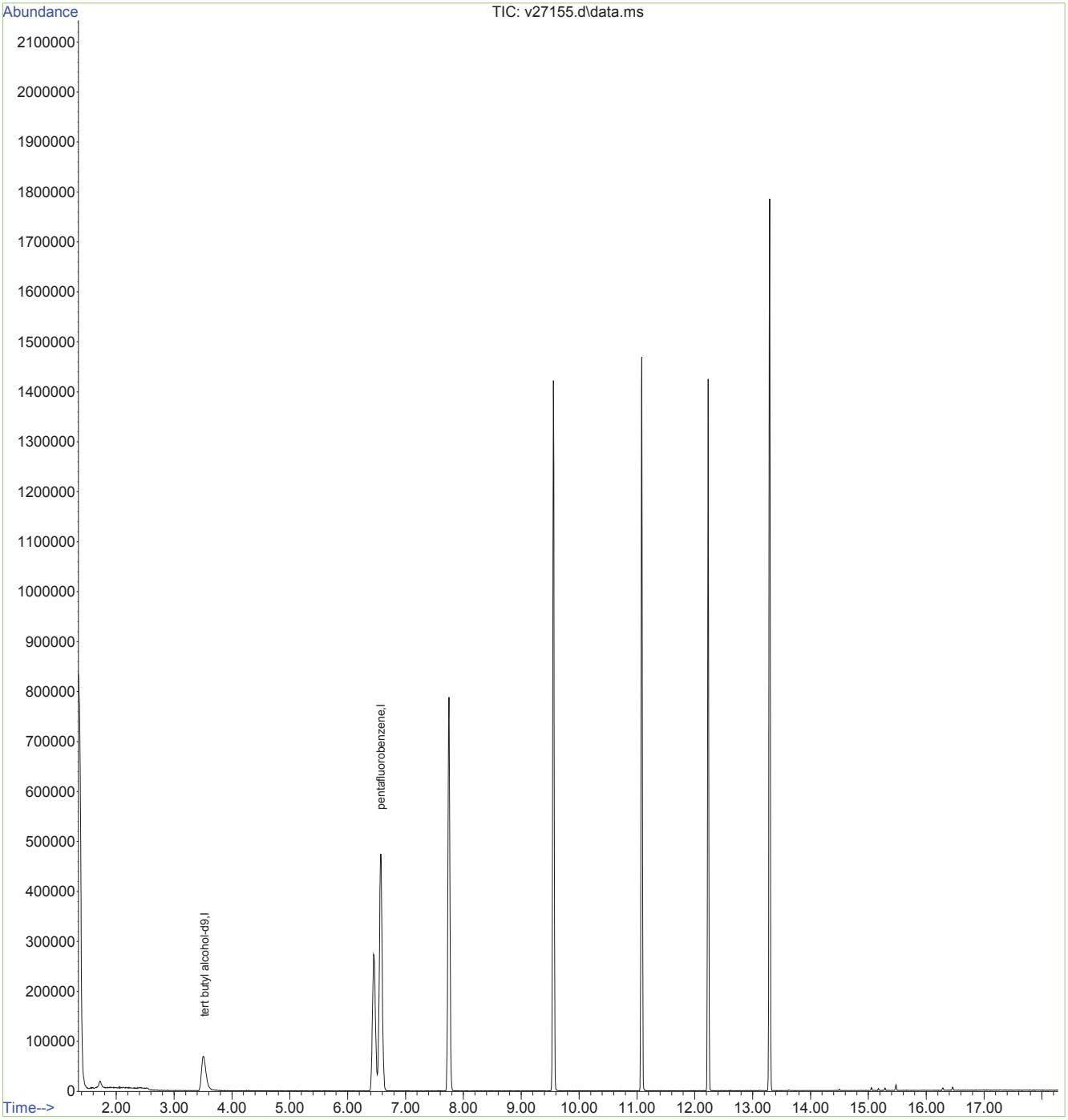
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140117\
Data File : v27155.d
Acq On : 17 Jan 2014 11:47 am
Operator : amym
Sample : mb
Misc : MS30964,MSV1026,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 17 11:34:06 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140117\
Data File : v27166.d
Acq On : 17 Jan 2014 4:37 pm
Operator : amym
Sample : MC27677-1ms
Misc : MS30981,MSV1026,,,,5,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 17 11:44:06 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

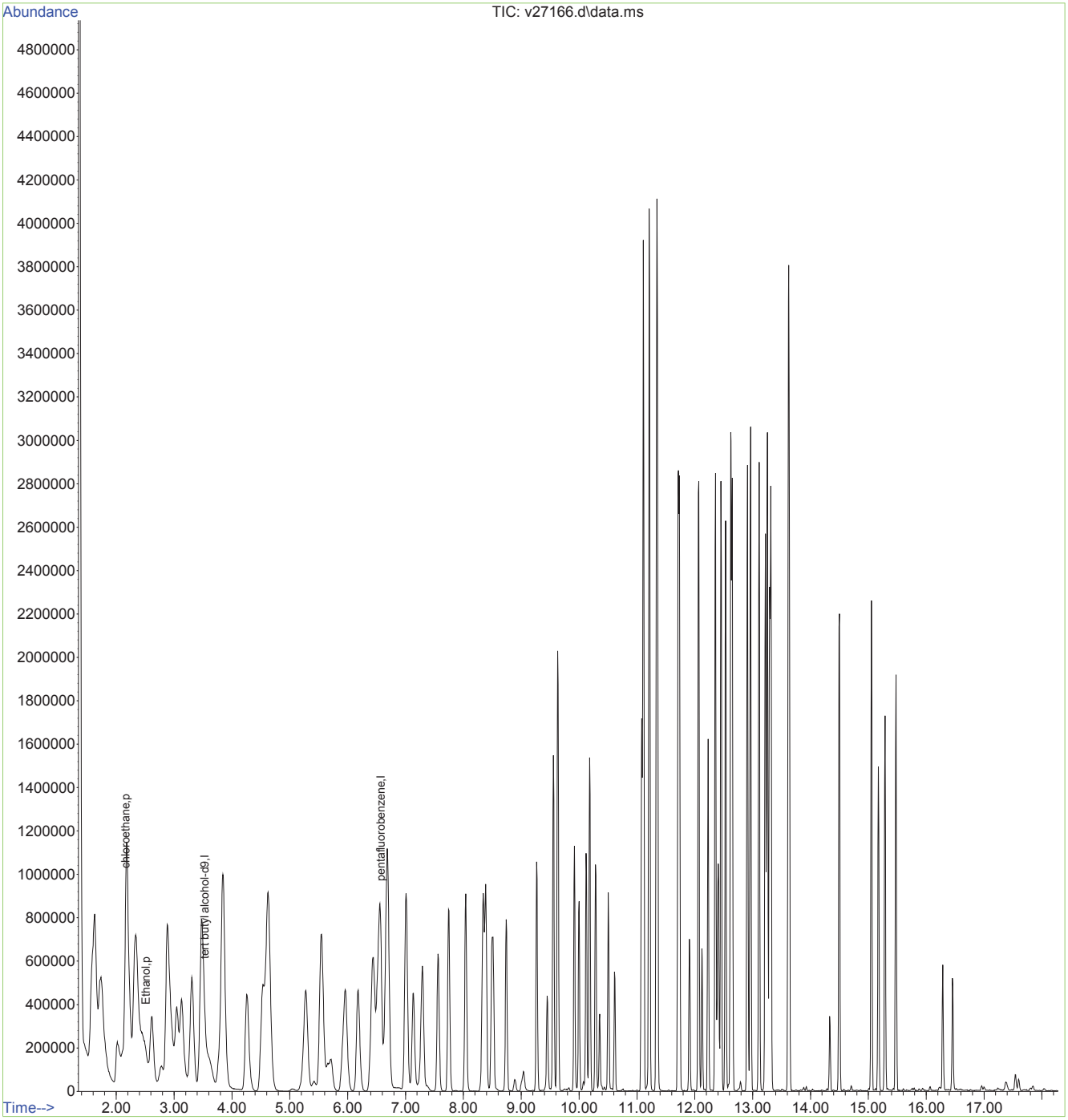
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.529	65	201341	500.00	ug/L	0.00
3) pentafluorobenzene	6.568	168	653801	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.509	45	187698m	5720.81	ug/L	
4) chloroethane	2.160	64	303635	60.45	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140117\
Data File : v27166.d
Acq On : 17 Jan 2014 4:37 pm
Operator : amym
Sample : MC27677-1ms
Misc : MS30981,MSV1026,,,,5,1
ALS Vial : 18 Sample Multiplier: 1

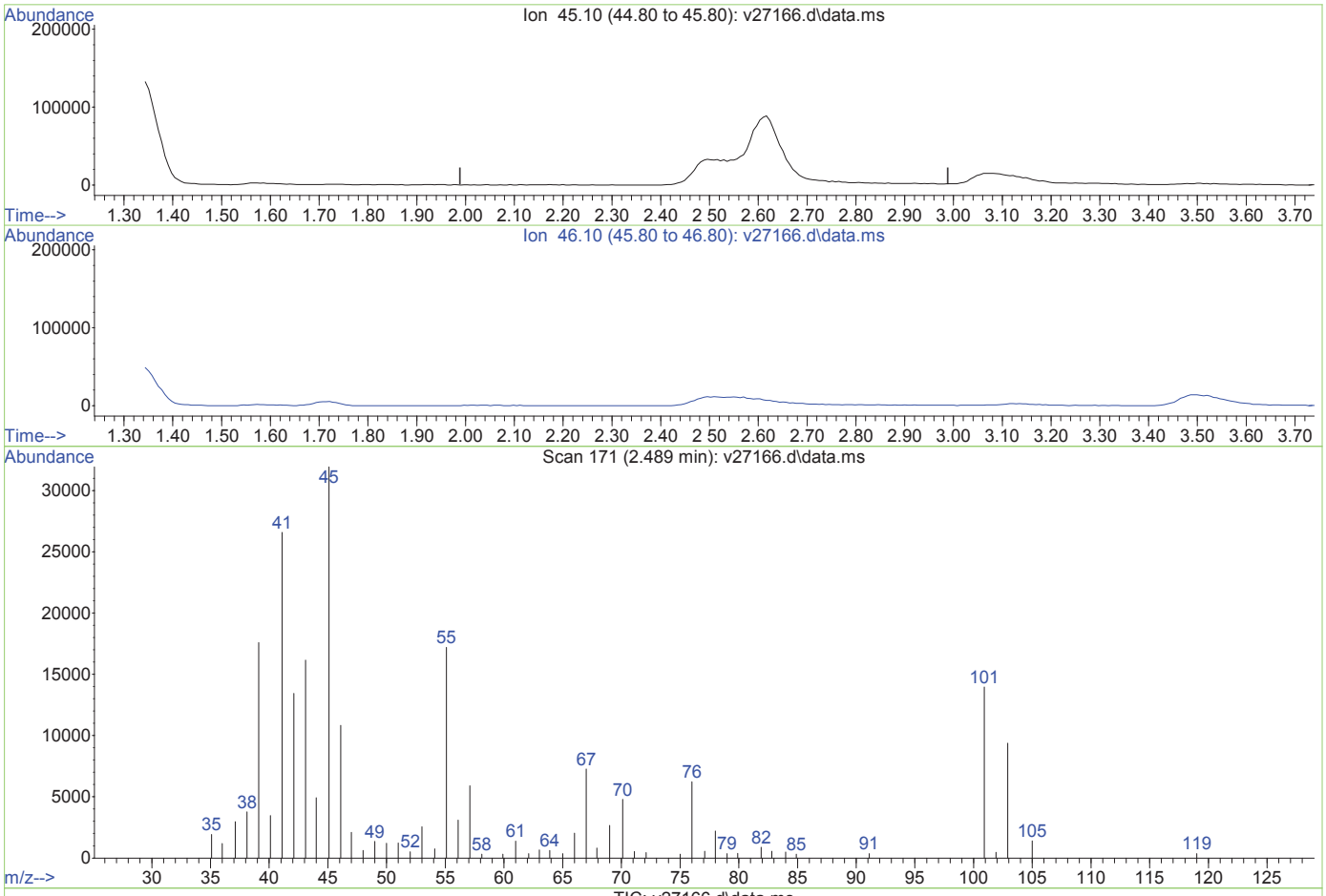
Quant Time: Nov 17 11:44:06 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140117\
Data File : v27166.d
Acq On : 17 Jan 2014 4:37 pm
Operator : amym
Sample : MC27677-1ms
Misc : MS30981,MSV1026,,,,5,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 17 11:42:44 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



TIC: v27166.d\data.ms

(2) Ethanol (p)

2.489min (-2.489) 0.00ug/L

response 0

Ion	Exp%	Act%
45.10	100	0.00
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

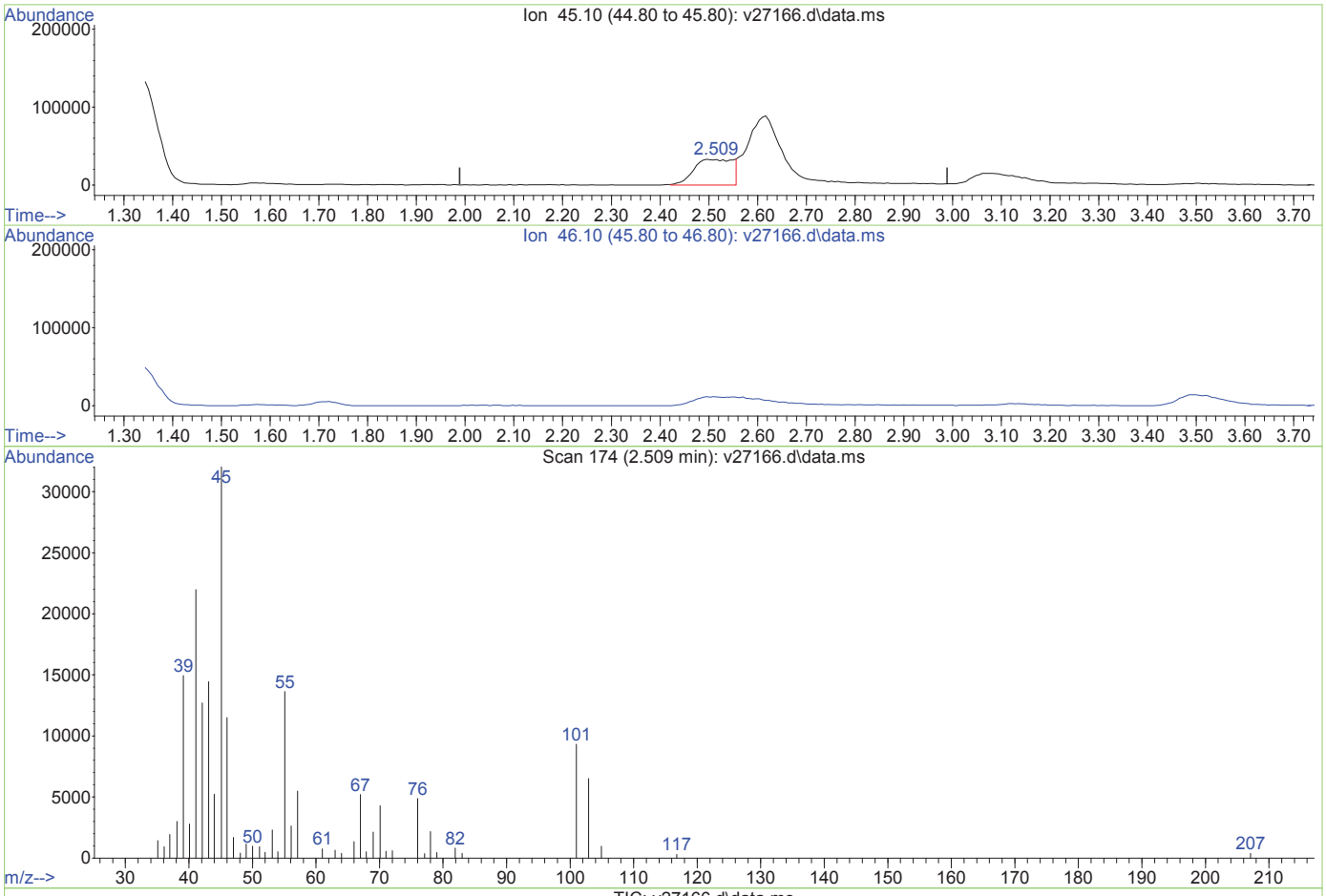
V27166.D edits: Ethanol

SGS ACCUTEST MC27657

Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140117\
Data File : v27166.d
Acq On : 17 Jan 2014 4:37 pm
Operator : amym
Sample : MC27677-1ms
Misc : MS30981,MSV1026,,,,5,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 17 11:42:44 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



TIC: v27166.d\data.ms

(2) Ethanol (p)

2.509min (+0.020) 5720.81ug/L m

response 187698

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V27166.D edits: Ethanol

SGS ACCUTEST MC27657

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140117\
Data File : v27167.d
Acq On : 17 Jan 2014 5:03 pm
Operator : amym
Sample : MC27677-1msd
Misc : MS30981,MSV1026,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Nov 17 11:44:44 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

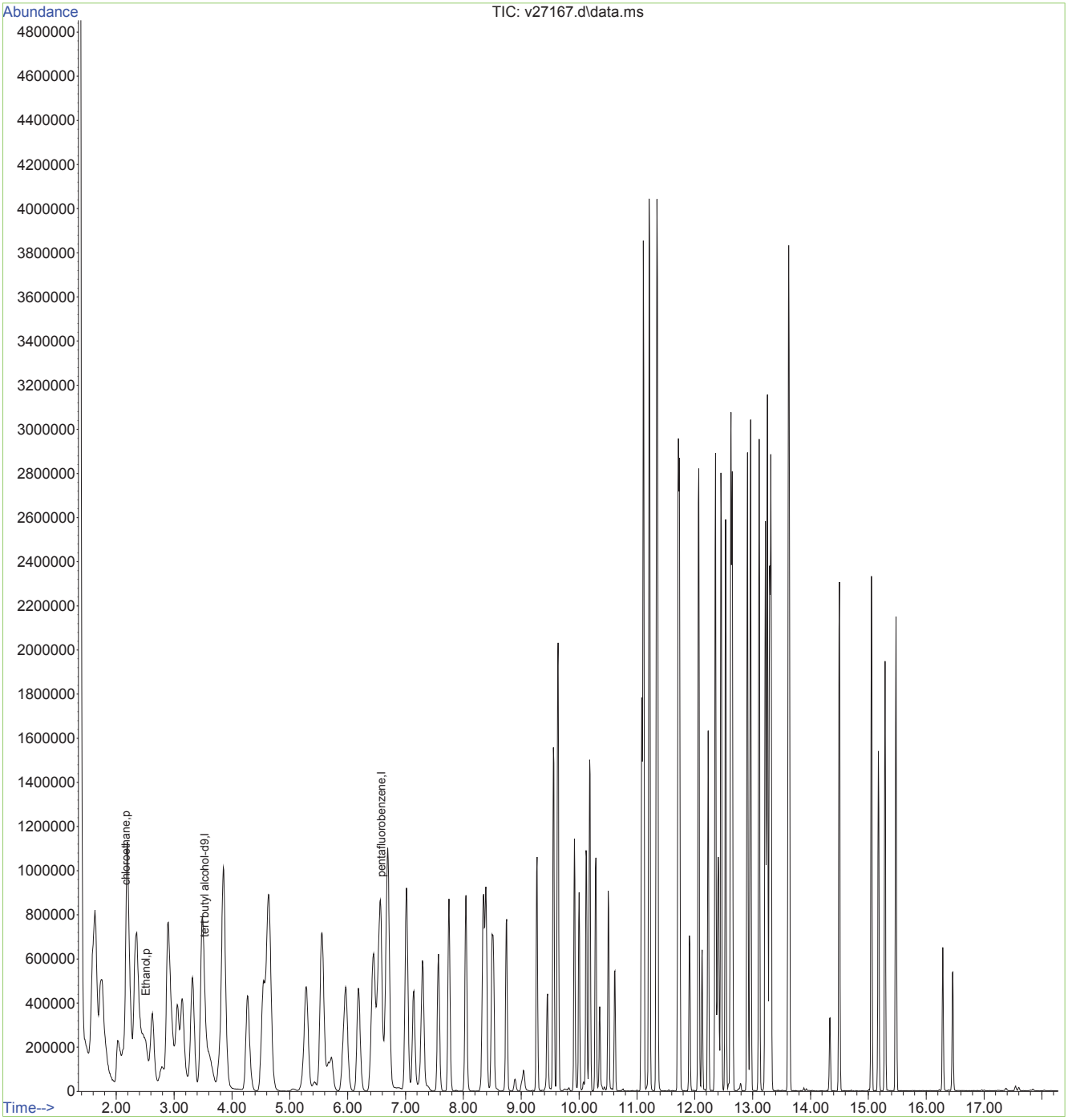
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.529	65	215067	500.00	ug/L	0.00
3) pentafluorobenzene	6.576	168	675347	50.00	ug/L	0.02
Target Compounds						Qvalue
2) Ethanol	2.512	45	209393	5996.00	ug/L	# 1
4) chloroethane	2.167	64	300669	57.91	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140117\
Data File : v27167.d
Acq On : 17 Jan 2014 5:03 pm
Operator : amym
Sample : MC27677-1msd
Misc : MS30981,MSV1026,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Nov 17 11:44:44 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Internal Sample Tracking Chronicle

Shell Oil

Job No: MC27657

URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC27657-1 Collected: 14-JAN-14 14:35 By: MW1-ROX-011414			Received: 15-JAN-14 By:			
MC27657-1	SW846 8011	17-JAN-14 04:44	CZ	16-JAN-14	MR	V8011SL
MC27657-1	SW846 8260C	17-JAN-14 12:40	AMY			V8260SL+
MC27657-1	SW846 8270D BY SIM	20-JAN-14 12:18	KR	16-JAN-14	FC	B8270SIMSL
MC27657-1	SW846 8270D	21-JAN-14 09:54	KR	16-JAN-14	FC	AB8270SL+
MC27657-1	SW846 8270D	28-JAN-14 17:32	KR	21-JAN-14	MEW	AB8270SL+
MC27657-2 Collected: 14-JAN-14 14:55 By: MW9-ROX-011414-EB			Received: 15-JAN-14 By:			
MC27657-2	SW846 8011	17-JAN-14 05:08	CZ	16-JAN-14	MR	V8011SL
MC27657-2	SW846 8260C	17-JAN-14 13:06	AMY			V8260SL+
MC27657-2	SW846 8270D BY SIM	20-JAN-14 12:41	KR	16-JAN-14	FC	B8270SIMSL
MC27657-2	SW846 8270D	21-JAN-14 10:17	KR	16-JAN-14	FC	AB8270SL+
MC27657-3 Collected: 14-JAN-14 15:30 By: MW9-ROX-011414			Received: 15-JAN-14 By:			
MC27657-3	SW846 8011	17-JAN-14 05:32	CZ	16-JAN-14	MR	V8011SL
MC27657-3	SW846 8260C	17-JAN-14 13:33	AMY			V8260SL+
MC27657-3	SW846 8270D BY SIM	20-JAN-14 13:04	KR	16-JAN-14	FC	B8270SIMSL
MC27657-3	SW846 8270D	21-JAN-14 10:40	KR	16-JAN-14	FC	AB8270SL+
MC27657-3	SW846 8270D	28-JAN-14 17:56	KR	21-JAN-14	MEW	AB8270SL+
MC27657-4 Collected: 14-JAN-14 00:00 By: TB-ROX-011414-HCL			Received: 15-JAN-14 By:			
MC27657-4	SW846 8260C	16-JAN-14 13:03	AMY			V8260SL+
MC27657-5 Collected: 14-JAN-14 00:00 By: TB-ROX-011414-ST			Received: 15-JAN-14 By:			
MC27657-5	SW846 8011	17-JAN-14 05:57	CZ	16-JAN-14	MR	V8011SL

SGS Accutest Internal Chain of Custody

Job Number: MC27657
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL
Received: 01/15/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC27657-1.1	Walk In Ref #22	Thomas Abruzzise	01/21/14 16:11	Retrieve from Storage
MC27657-1.1	Scott Parsick		03/03/14 15:47	Disposed
MC27657-1.2	Walk In Ref #22	Michael Rolo	01/16/14 09:10	Retrieve from Storage
MC27657-1.2	Michael Rolo		01/17/14 06:53	Depleted
MC27657-1.3	VOC Ref #3	Amy Min Yang	01/16/14 12:05	Retrieve from Storage
MC27657-1.3	Amy Min Yang	GCMSV	01/16/14 12:05	Load on Instrument
MC27657-1.3	GCMSV	Amy Min Yang	01/17/14 11:02	Unload from Instrument
MC27657-1.3	Amy Min Yang	VOC Ref #3	01/17/14 11:02	Return to Storage
MC27657-1.3	Scott Parsick		03/03/14 15:47	Disposed
MC27657-1.4	VOC Ref #3	Amy Min Yang	01/17/14 11:10	Retrieve from Storage
MC27657-1.4	Amy Min Yang	GCMSV	01/17/14 11:10	Load on Instrument
MC27657-1.4	GCMSV	Amy Min Yang	01/20/14 17:16	Unload from Instrument
MC27657-1.4	Amy Min Yang	VOC Ref #3	01/20/14 17:16	Return to Storage
MC27657-1.4	Scott Parsick		03/03/14 15:47	Disposed
MC27657-1.6	VOC Ref #3	Michael Rolo	01/16/14 06:54	Retrieve from Storage
MC27657-1.6	Michael Rolo		01/17/14 06:53	Depleted
MC27657-2.1	Walk In Ref #22	Michael Rolo	01/16/14 09:10	Retrieve from Storage
MC27657-2.1	Michael Rolo		01/17/14 06:53	Depleted
MC27657-2.3	VOC Ref #3	Amy Min Yang	01/17/14 11:10	Retrieve from Storage
MC27657-2.3	Amy Min Yang	GCMSV	01/17/14 11:10	Load on Instrument
MC27657-2.3	GCMSV	Amy Min Yang	01/20/14 17:16	Unload from Instrument
MC27657-2.3	Amy Min Yang	VOC Ref #3	01/20/14 17:16	Return to Storage
MC27657-2.3	Scott Parsick		03/03/14 15:47	Disposed
MC27657-2.4	VOC Ref #3	Amy Min Yang	01/16/14 12:05	Retrieve from Storage
MC27657-2.4	Amy Min Yang	GCMSV	01/16/14 12:05	Load on Instrument
MC27657-2.4	GCMSV	Amy Min Yang	01/17/14 11:02	Unload from Instrument
MC27657-2.4	Amy Min Yang	VOC Ref #3	01/17/14 11:02	Return to Storage
MC27657-2.4	Scott Parsick		03/03/14 15:47	Disposed
MC27657-2.6	VOC Ref #3	Michael Rolo	01/16/14 06:54	Retrieve from Storage
MC27657-2.6	Michael Rolo		01/17/14 06:53	Depleted
MC27657-3.1	Walk In Ref #22	Michael Rolo	01/16/14 09:10	Retrieve from Storage
MC27657-3.1	Michael Rolo		01/17/14 06:53	Depleted
MC27657-3.2	Walk In Ref #22	Thomas Abruzzise	01/21/14 16:11	Retrieve from Storage
MC27657-3.2	Scott Parsick		03/03/14 15:47	Disposed

SGS Accutest Internal Chain of Custody

Job Number: MC27657
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL
Received: 01/15/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC27657-3.3	VOC Ref #3	Amy Min Yang	01/16/14 12:05	Retrieve from Storage
MC27657-3.3	Amy Min Yang	GCMSV	01/16/14 12:05	Load on Instrument
MC27657-3.3	GCMSV	Amy Min Yang	01/17/14 11:02	Unload from Instrument
MC27657-3.3	Amy Min Yang	VOC Ref #3	01/17/14 11:02	Return to Storage
MC27657-3.3	Scott Parsick		03/03/14 15:47	Disposed
MC27657-3.4	VOC Ref #3	Amy Min Yang	01/17/14 11:10	Retrieve from Storage
MC27657-3.4	Amy Min Yang	GCMSV	01/17/14 11:10	Load on Instrument
MC27657-3.4	GCMSV	Amy Min Yang	01/20/14 17:16	Unload from Instrument
MC27657-3.4	Amy Min Yang	VOC Ref #3	01/20/14 17:16	Return to Storage
MC27657-3.4	Scott Parsick		03/03/14 15:47	Disposed
MC27657-3.5	VOC Ref #3	Michael Rolo	01/16/14 06:54	Retrieve from Storage
MC27657-3.5	Michael Rolo		01/17/14 06:53	Depleted
MC27657-4.1	VOC Ref #3	Amy Min Yang	01/16/14 12:05	Retrieve from Storage
MC27657-4.1	Amy Min Yang	GCMSV	01/16/14 12:05	Load on Instrument
MC27657-4.1	GCMSV	Amy Min Yang	01/17/14 11:02	Unload from Instrument
MC27657-4.1	Amy Min Yang	VOC Ref #3	01/17/14 11:02	Return to Storage
MC27657-4.1	Scott Parsick		03/03/14 15:47	Disposed
MC27657-5.2	VOC Ref #3	Michael Rolo	01/16/14 06:54	Retrieve from Storage
MC27657-5.2	Michael Rolo		01/17/14 06:53	Depleted

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC27657
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1025-MB	V27124.D	1	01/16/14	AMY	n/a	n/a	MSV1025

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27657-4

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	

Method Blank Summary

Job Number: MC27657
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1025-MB	V27124.D	1	01/16/14	AMY	n/a	n/a	MSV1025

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27657-4

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
123-91-1	1,4-Dioxane	ND	25	16	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.70	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

Method Blank Summary

Job Number: MC27657
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1025-MB	V27124.D	1	01/16/14	AMY	n/a	n/a	MSV1025

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27657-4

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	107%	70-130%
2037-26-5	Toluene-D8	98%	70-130%
460-00-4	4-Bromofluorobenzene	105%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: MC27657
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1026-MB	V27155.D	1	01/17/14	AMY	n/a	n/a	MSV1026

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27657-1, MC27657-2, MC27657-3

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	

Method Blank Summary

Job Number: MC27657
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1026-MB	V27155.D	1	01/17/14	AMY	n/a	n/a	MSV1026

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27657-1, MC27657-2, MC27657-3

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
123-91-1	1,4-Dioxane	ND	25	16	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.70	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

Method Blank Summary

Job Number: MC27657
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1026-MB	V27155.D	1	01/17/14	AMY	n/a	n/a	MSV1026

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27657-1, MC27657-2, MC27657-3

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	100%	70-130%
2037-26-5	Toluene-D8	98%	70-130%
460-00-4	4-Bromofluorobenzene	104%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Job Number: MC27657
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1025-BS	V27121.D	1	01/16/14	AMY	n/a	n/a	MSV1025

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27657-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	42.1	84	70-130
107-02-8	Acrolein	50	75.5	151* [a]	70-130
107-13-1	Acrylonitrile	100	99.1	99	70-130
71-43-2	Benzene	50	52.3	105	70-130
108-86-1	Bromobenzene	50	55.4	111	70-130
74-97-5	Bromochloromethane	50	52.3	105	70-130
75-27-4	Bromodichloromethane	50	57.8	116	70-130
75-25-2	Bromoform	50	44.6	89	70-130
74-83-9	Bromomethane	50	47.5	95	70-130
78-93-3	2-Butanone (MEK)	50	41.0	82	70-130
104-51-8	n-Butylbenzene	50	58.7	117	70-130
135-98-8	sec-Butylbenzene	50	59.4	119	70-130
98-06-6	tert-Butylbenzene	50	59.8	120	70-130
75-15-0	Carbon disulfide	50	49.3	99	70-130
56-23-5	Carbon tetrachloride	50	60.1	120	70-130
108-90-7	Chlorobenzene	50	46.7	93	70-130
75-00-3	Chloroethane	50	59.7	119	70-130
110-75-8	2-Chloroethyl vinyl ether	50	147	294* [b]	70-130
67-66-3	Chloroform	50	51.5	103	70-130
74-87-3	Chloromethane	50	51.5	103	70-130
95-49-8	o-Chlorotoluene	50	54.3	109	70-130
106-43-4	p-Chlorotoluene	50	56.0	112	70-130
124-48-1	Dibromochloromethane	50	57.9	116	70-130
95-50-1	1,2-Dichlorobenzene	50	50.4	101	70-130
541-73-1	1,3-Dichlorobenzene	50	51.4	103	70-130
106-46-7	1,4-Dichlorobenzene	50	51.1	102	70-130
75-71-8	Dichlorodifluoromethane	50	52.7	105	70-130
75-34-3	1,1-Dichloroethane	50	53.6	107	70-130
107-06-2	1,2-Dichloroethane	50	55.1	110	70-130
75-35-4	1,1-Dichloroethene	50	54.9	110	70-130
156-59-2	cis-1,2-Dichloroethene	50	52.5	105	70-130
156-60-5	trans-1,2-Dichloroethene	50	52.6	105	70-130
78-87-5	1,2-Dichloropropane	50	51.7	103	70-130
142-28-9	1,3-Dichloropropane	50	50.6	101	70-130
594-20-7	2,2-Dichloropropane	50	62.7	125	70-130
563-58-6	1,1-Dichloropropene	50	53.4	107	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC27657
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1025-BS	V27121.D	1	01/16/14	AMY	n/a	n/a	MSV1025

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27657-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	50	49.1	98	70-130
10061-02-6	trans-1,3-Dichloropropene	50	51.9	104	70-130
123-91-1	1,4-Dioxane	250	229	92	70-130
97-63-2	Ethyl methacrylate	50	46.7	93	77-137
100-41-4	Ethylbenzene	50	53.6	107	70-130
87-68-3	Hexachlorobutadiene	50	61.1	122	70-130
591-78-6	2-Hexanone	50	41.2	82	70-130
98-82-8	Isopropylbenzene	50	60.4	121	70-130
99-87-6	p-Isopropyltoluene	50	57.9	116	70-130
1634-04-4	Methyl Tert Butyl Ether	50	57.3	115	70-130
108-10-1	4-Methyl-2-pentanone (MIBK)	50	53.5	107	70-130
74-95-3	Methylene bromide	50	52.4	105	70-130
75-09-2	Methylene chloride	50	49.0	98	70-130
91-20-3	Naphthalene	50	55.7	111	70-130
103-65-1	n-Propylbenzene	50	57.9	116	70-130
100-42-5	Styrene	50	48.9	98	70-130
630-20-6	1,1,1,2-Tetrachloroethane	50	54.0	108	70-130
79-34-5	1,1,2,2-Tetrachloroethane	50	51.3	103	70-130
127-18-4	Tetrachloroethene	50	54.1	108	70-130
108-88-3	Toluene	50	55.9	112	70-130
87-61-6	1,2,3-Trichlorobenzene	50	63.5	127	70-130
120-82-1	1,2,4-Trichlorobenzene	50	63.6	127	70-130
71-55-6	1,1,1-Trichloroethane	50	58.5	117	70-130
79-00-5	1,1,2-Trichloroethane	50	51.3	103	70-130
79-01-6	Trichloroethene	50	54.7	109	70-130
75-69-4	Trichlorofluoromethane	50	58.4	117	70-130
96-18-4	1,2,3-Trichloropropane	50	56.2	112	70-130
95-63-6	1,2,4-Trimethylbenzene	50	59.3	119	70-130
108-67-8	1,3,5-Trimethylbenzene	50	60.2	120	70-130
108-05-4	Vinyl Acetate	50	54.2	108	70-130
75-01-4	Vinyl chloride	50	44.7	89	70-130
	m,p-Xylene	100	89.3	89	70-130
95-47-6	o-Xylene	50	45.1	90	70-130
1330-20-7	Xylene (total)	150	134	89	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC27657
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1025-BS	V27121.D	1	01/16/14	AMY	n/a	n/a	MSV1025

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27657-4

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	70-130%
2037-26-5	Toluene-D8	99%	70-130%
460-00-4	4-Bromofluorobenzene	100%	70-130%

(a) Outside control limits. Blank Spike meets program technical requirements.
(b) Outside control limits. Associated samples are non-detect for this compound.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC27657
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1026-BS	V27151.D	1	01/17/14	AMY	n/a	n/a	MSV1026

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27657-1, MC27657-2, MC27657-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	52.4	105	70-130
107-02-8	Acrolein	50	74.0	148* [a]	70-130
107-13-1	Acrylonitrile	100	93.9	94	70-130
71-43-2	Benzene	50	53.7	107	70-130
108-86-1	Bromobenzene	50	54.7	109	70-130
74-97-5	Bromochloromethane	50	52.5	105	70-130
75-27-4	Bromodichloromethane	50	54.2	108	70-130
75-25-2	Bromoform	50	44.0	88	70-130
74-83-9	Bromomethane	50	44.1	88	70-130
78-93-3	2-Butanone (MEK)	50	49.1	98	70-130
104-51-8	n-Butylbenzene	50	58.3	117	70-130
135-98-8	sec-Butylbenzene	50	59.5	119	70-130
98-06-6	tert-Butylbenzene	50	57.4	115	70-130
75-15-0	Carbon disulfide	50	50.1	100	70-130
56-23-5	Carbon tetrachloride	50	55.5	111	70-130
108-90-7	Chlorobenzene	50	48.0	96	70-130
75-00-3	Chloroethane	50	55.7	111	70-130
110-75-8	2-Chloroethyl vinyl ether	50	100	200* [b]	70-130
67-66-3	Chloroform	50	49.3	99	70-130
74-87-3	Chloromethane	50	45.8	92	70-130
95-49-8	o-Chlorotoluene	50	53.8	108	70-130
106-43-4	p-Chlorotoluene	50	54.5	109	70-130
124-48-1	Dibromochloromethane	50	56.5	113	70-130
95-50-1	1,2-Dichlorobenzene	50	50.2	100	70-130
541-73-1	1,3-Dichlorobenzene	50	51.6	103	70-130
106-46-7	1,4-Dichlorobenzene	50	51.5	103	70-130
75-71-8	Dichlorodifluoromethane	50	46.5	93	70-130
75-34-3	1,1-Dichloroethane	50	52.0	104	70-130
107-06-2	1,2-Dichloroethane	50	48.8	98	70-130
75-35-4	1,1-Dichloroethene	50	55.6	111	70-130
156-59-2	cis-1,2-Dichloroethene	50	53.4	107	70-130
156-60-5	trans-1,2-Dichloroethene	50	53.0	106	70-130
78-87-5	1,2-Dichloropropane	50	51.2	102	70-130
142-28-9	1,3-Dichloropropane	50	51.4	103	70-130
594-20-7	2,2-Dichloropropane	50	60.7	121	70-130
563-58-6	1,1-Dichloropropene	50	53.2	106	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC27657
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1026-BS	V27151.D	1	01/17/14	AMY	n/a	n/a	MSV1026

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27657-1, MC27657-2, MC27657-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	50	48.9	98	70-130
10061-02-6	trans-1,3-Dichloropropene	50	49.7	99	70-130
123-91-1	1,4-Dioxane	250	239	96	70-130
97-63-2	Ethyl methacrylate	50	46.1	92	77-137
100-41-4	Ethylbenzene	50	54.6	109	70-130
87-68-3	Hexachlorobutadiene	50	59.8	120	70-130
591-78-6	2-Hexanone	50	47.7	95	70-130
98-82-8	Isopropylbenzene	50	60.3	121	70-130
99-87-6	p-Isopropyltoluene	50	58.6	117	70-130
1634-04-4	Methyl Tert Butyl Ether	50	54.8	110	70-130
108-10-1	4-Methyl-2-pentanone (MIBK)	50	50.0	100	70-130
74-95-3	Methylene bromide	50	50.2	100	70-130
75-09-2	Methylene chloride	50	49.7	99	70-130
91-20-3	Naphthalene	50	52.8	106	70-130
103-65-1	n-Propylbenzene	50	57.8	116	70-130
100-42-5	Styrene	50	51.1	102	70-130
630-20-6	1,1,1,2-Tetrachloroethane	50	53.0	106	70-130
79-34-5	1,1,2,2-Tetrachloroethane	50	49.9	100	70-130
127-18-4	Tetrachloroethene	50	55.3	111	70-130
108-88-3	Toluene	50	56.1	112	70-130
87-61-6	1,2,3-Trichlorobenzene	50	60.0	120	70-130
120-82-1	1,2,4-Trichlorobenzene	50	62.0	124	70-130
71-55-6	1,1,1-Trichloroethane	50	55.3	111	70-130
79-00-5	1,1,2-Trichloroethane	50	51.1	102	70-130
79-01-6	Trichloroethene	50	54.5	109	70-130
75-69-4	Trichlorofluoromethane	50	51.2	102	70-130
96-18-4	1,2,3-Trichloropropane	50	53.4	107	70-130
95-63-6	1,2,4-Trimethylbenzene	50	58.5	117	70-130
108-67-8	1,3,5-Trimethylbenzene	50	59.5	119	70-130
108-05-4	Vinyl Acetate	50	50.6	101	70-130
75-01-4	Vinyl chloride	50	41.8	84	70-130
	m,p-Xylene	100	92.9	93	70-130
95-47-6	o-Xylene	50	46.6	93	70-130
1330-20-7	Xylene (total)	150	140	93	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC27657
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1026-BS	V27151.D	1	01/17/14	AMY	n/a	n/a	MSV1026

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27657-1, MC27657-2, MC27657-3

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	94%	70-130%
2037-26-5	Toluene-D8	98%	70-130%
460-00-4	4-Bromofluorobenzene	99%	70-130%

(a) Outside control limits. Blank Spike meets program technical requirements.
(b) Outside control limits. Associated samples are non-detect for this compound.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27657
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC27652-9MS	V27141.D	5	01/16/14	AMY	n/a	n/a	MSV1025
MC27652-9MSD	V27142.D	5	01/16/14	AMY	n/a	n/a	MSV1025
MC27652-9 [a]	V27127.D	1	01/16/14	AMY	n/a	n/a	MSV1025

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27657-4

CAS No.	Compound	MC27652-9 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		250	146	58* [b]	250	151	60* [b]	3	70-130/30
107-02-8	Acrolein	ND		250	323	129	250	326	130	1	70-130/30
107-13-1	Acrylonitrile	ND		500	493	99	500	491	98	0	70-130/30
71-43-2	Benzene	ND		250	274	110	250	270	108	1	70-130/30
108-86-1	Bromobenzene	ND		250	286	114	250	287	115	0	70-130/30
74-97-5	Bromochloromethane	ND		250	270	108	250	271	108	0	70-130/30
75-27-4	Bromodichloromethane	ND		250	274	110	250	270	108	1	70-130/30
75-25-2	Bromoform	ND		250	225	90	250	227	91	1	70-130/30
74-83-9	Bromomethane	ND		250	223	89	250	220	88	1	70-130/30
78-93-3	2-Butanone (MEK)	ND		250	184	74	250	186	74	1	70-130/30
104-51-8	n-Butylbenzene	ND		250	304	122	250	303	121	0	70-130/30
135-98-8	sec-Butylbenzene	ND		250	313	125	250	313	125	0	70-130/30
98-06-6	tert-Butylbenzene	ND		250	297	119	250	295	118	1	70-130/30
75-15-0	Carbon disulfide	ND		250	227	91	250	225	90	1	70-130/30
56-23-5	Carbon tetrachloride	ND		250	270	108	250	262	105	3	70-130/30
108-90-7	Chlorobenzene	ND		250	249	100	250	248	99	0	70-130/30
75-00-3	Chloroethane	ND		250	284	114	250	278	111	2	70-130/30
110-75-8	2-Chloroethyl vinyl ether	ND		250	585	234* [b]	250	510	204* [b]	14	70-130/30
67-66-3	Chloroform	ND		250	250	100	250	248	99	1	70-130/30
74-87-3	Chloromethane	ND		250	249	100	250	247	99	1	70-130/30
95-49-8	o-Chlorotoluene	ND		250	280	112	250	278	111	1	70-130/30
106-43-4	p-Chlorotoluene	ND		250	283	113	250	281	112	1	70-130/30
124-48-1	Dibromochloromethane	ND		250	292	117	250	292	117	0	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		250	262	105	250	265	106	1	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		250	269	108	250	267	107	1	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		250	269	108	250	267	107	1	70-130/30
75-71-8	Dichlorodifluoromethane	ND		250	247	99	250	240	96	3	70-130/30
75-34-3	1,1-Dichloroethane	ND		250	264	106	250	261	104	1	70-130/30
107-06-2	1,2-Dichloroethane	ND		250	239	96	250	238	95	0	70-130/30
75-35-4	1,1-Dichloroethene	ND		250	274	110	250	269	108	2	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		250	276	110	250	275	110	0	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		250	269	108	250	265	106	1	70-130/30
78-87-5	1,2-Dichloropropane	ND		250	266	106	250	263	105	1	70-130/30
142-28-9	1,3-Dichloropropane	ND		250	268	107	250	269	108	0	70-130/30
594-20-7	2,2-Dichloropropane	ND		250	289	116	250	286	114	1	70-130/30
563-58-6	1,1-Dichloropropene	ND		250	269	108	250	260	104	3	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27657
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC27652-9MS	V27141.D	5	01/16/14	AMY	n/a	n/a	MSV1025
MC27652-9MSD	V27142.D	5	01/16/14	AMY	n/a	n/a	MSV1025
MC27652-9 [a]	V27127.D	1	01/16/14	AMY	n/a	n/a	MSV1025

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27657-4

CAS No.	Compound	MC27652-9 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		250	250	100	250	248	99	1	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		250	254	102	250	253	101	0	70-130/30
123-91-1	1,4-Dioxane	ND		1250	1180	94	1250	1250	100	6	70-130/30
97-63-2	Ethyl methacrylate	ND		250	247	99	250	247	99	0	72-139/30
100-41-4	Ethylbenzene	ND		250	288	115	250	284	114	1	70-130/30
87-68-3	Hexachlorobutadiene	ND		250	293	117	250	308	123	5	70-130/30
591-78-6	2-Hexanone	ND		250	197	79	250	199	80	1	70-130/30
98-82-8	Isopropylbenzene	ND		250	318	127	250	316	126	1	70-130/30
99-87-6	p-Isopropyltoluene	ND		250	300	120	250	302	121	1	70-130/30
1634-04-4	Methyl Tert Butyl Ether	ND		250	293	117	250	296	118	1	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	272	109	250	267	107	2	70-130/30
74-95-3	Methylene bromide	ND		250	253	101	250	252	101	0	70-130/30
75-09-2	Methylene chloride	ND		250	249	100	250	251	100	1	70-130/30
91-20-3	Naphthalene	ND		250	327	131* [b]	250	316	126	3	70-130/30
103-65-1	n-Propylbenzene	ND		250	303	121	250	298	119	2	70-130/30
100-42-5	Styrene	ND		250	267	107	250	264	106	1	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		250	276	110	250	276	110	0	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	270	108	250	272	109	1	70-130/30
127-18-4	Tetrachloroethene	ND		250	285	114	250	280	112	2	70-130/30
108-88-3	Toluene	0.99		250	288	115	250	285	114	1	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		250	285	114	250	321	128	12	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		250	319	128	250	334	134* [b]	5	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		250	276	110	250	273	109	1	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		250	266	106	250	262	105	2	70-130/30
79-01-6	Trichloroethene	ND		250	275	110	250	272	109	1	70-130/30
75-69-4	Trichlorofluoromethane	ND		250	247	99	250	237	95	4	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		250	278	111	250	282	113	1	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		250	311	124	250	309	124	1	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		250	314	126	250	310	124	1	70-130/30
108-05-4	Vinyl Acetate	ND		250	262	105	250	262	105	0	70-130/30
75-01-4	Vinyl chloride	ND		250	221	88	250	216	86	2	70-130/30
	m,p-Xylene	ND		500	478	96	500	475	95	1	70-130/30
95-47-6	o-Xylene	ND		250	242	97	250	243	97	0	70-130/30
1330-20-7	Xylene (total)	ND		750	720	96	750	718	96	0	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27657
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC27652-9MS	V27141.D	5	01/16/14	AMY	n/a	n/a	MSV1025
MC27652-9MSD	V27142.D	5	01/16/14	AMY	n/a	n/a	MSV1025
MC27652-9 [a]	V27127.D	1	01/16/14	AMY	n/a	n/a	MSV1025

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27657-4

CAS No.	Surrogate Recoveries	MS	MSD	MC27652-9	Limits
1868-53-7	Dibromofluoromethane	92%	93%	107%	70-130%
2037-26-5	Toluene-D8	98%	97%	99%	70-130%
460-00-4	4-Bromofluorobenzene	98%	99%	105%	70-130%

(a) The pH of the sample aliquot for VOA analysis was > 2 at time of analysis.
(b) Outside control limits due to possible matrix interference. Refer to Blank Spike.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27657
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC27677-1MS	V27166.D	1	01/17/14	AMY	n/a	n/a	MSV1026
MC27677-1MSD	V27167.D	1	01/17/14	AMY	n/a	n/a	MSV1026
MC27677-1	V27160.D	1	01/17/14	AMY	n/a	n/a	MSV1026

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27657-1, MC27657-2, MC27657-3

CAS No.	Compound	MC27677-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	17.4		50	46.6	58* [a]	50	47.4	60* [a]	2	70-130/30
107-02-8	Acrolein	ND		50	65.7	131* [a]	50	67.8	136* [a]	3	70-130/30
107-13-1	Acrylonitrile	ND		100	108	108	100	107	107	1	70-130/30
71-43-2	Benzene	ND		50	56.9	114	50	56.0	112	2	70-130/30
108-86-1	Bromobenzene	ND		50	57.9	116	50	57.3	115	1	70-130/30
74-97-5	Bromochloromethane	ND		50	55.8	112	50	55.0	110	1	70-130/30
75-27-4	Bromodichloromethane	ND		50	56.7	113	50	55.0	110	3	70-130/30
75-25-2	Bromoform	ND		50	44.9	90	50	45.6	91	2	70-130/30
74-83-9	Bromomethane	ND		50	47.2	94	50	45.9	92	3	70-130/30
78-93-3	2-Butanone (MEK)	ND		50	38.0	76	50	37.9	76	0	70-130/30
104-51-8	n-Butylbenzene	ND		50	61.8	124	50	60.7	121	2	70-130/30
135-98-8	sec-Butylbenzene	ND		50	63.1	126	50	62.1	124	2	70-130/30
98-06-6	tert-Butylbenzene	ND		50	61.0	122	50	59.2	118	3	70-130/30
75-15-0	Carbon disulfide	ND		50	54.5	109	50	52.9	106	3	70-130/30
56-23-5	Carbon tetrachloride	ND		50	58.4	117	50	56.9	114	3	70-130/30
108-90-7	Chlorobenzene	ND		50	50.2	100	50	49.8	100	1	70-130/30
75-00-3	Chloroethane	ND		50	60.5	121	50	57.9	116	4	70-130/30
110-75-8	2-Chloroethyl vinyl ether	ND		50	ND	0* [a]	50	ND	0* [a]	nc	70-130/30
67-66-3	Chloroform	ND		50	53.0	106	50	51.5	103	3	70-130/30
74-87-3	Chloromethane	ND		50	51.0	102	50	49.2	98	4	70-130/30
95-49-8	o-Chlorotoluene	ND		50	56.6	113	50	55.3	111	2	70-130/30
106-43-4	p-Chlorotoluene	ND		50	57.8	116	50	56.1	112	3	70-130/30
124-48-1	Dibromochloromethane	ND		50	58.5	117	50	58.7	117	0	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		50	52.9	106	50	52.2	104	1	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		50	54.5	109	50	53.6	107	2	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		50	54.0	108	50	53.3	107	1	70-130/30
75-71-8	Dichlorodifluoromethane	ND		50	60.0	120	50	57.6	115	4	70-130/30
75-34-3	1,1-Dichloroethane	ND		50	56.5	113	50	54.9	110	3	70-130/30
107-06-2	1,2-Dichloroethane	ND		50	51.8	104	50	51.0	102	2	70-130/30
75-35-4	1,1-Dichloroethene	ND		50	61.7	123	50	59.4	119	4	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		50	57.8	116	50	56.8	114	2	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		50	57.4	115	50	56.2	112	2	70-130/30
78-87-5	1,2-Dichloropropane	ND		50	54.6	109	50	53.4	107	2	70-130/30
142-28-9	1,3-Dichloropropane	ND		50	53.7	107	50	53.8	108	0	70-130/30
594-20-7	2,2-Dichloropropane	ND		50	63.8	128	50	62.4	125	2	70-130/30
563-58-6	1,1-Dichloropropene	ND		50	57.8	116	50	55.5	111	4	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27657
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC27677-1MS	V27166.D	1	01/17/14	AMY	n/a	n/a	MSV1026
MC27677-1MSD	V27167.D	1	01/17/14	AMY	n/a	n/a	MSV1026
MC27677-1	V27160.D	1	01/17/14	AMY	n/a	n/a	MSV1026

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27657-1, MC27657-2, MC27657-3

CAS No.	Compound	MC27677-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		50	51.0	102	50	50.3	101	1	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		50	52.3	105	50	52.0	104	1	70-130/30
123-91-1	1,4-Dioxane	ND		250	192	77	250	231	92	18	70-130/30
97-63-2	Ethyl methacrylate	ND		50	51.4	103	50	50.8	102	1	72-139/30
100-41-4	Ethylbenzene	ND		50	57.3	115	50	56.2	112	2	70-130/30
87-68-3	Hexachlorobutadiene	ND		50	61.2	122	50	60.9	122	0	70-130/30
591-78-6	2-Hexanone	ND		50	41.2	82	50	41.6	83	1	70-130/30
98-82-8	Isopropylbenzene	ND		50	64.4	129	50	63.0	126	2	70-130/30
99-87-6	p-Isopropyltoluene	ND		50	61.1	122	50	60.0	120	2	70-130/30
1634-04-4	Methyl Tert Butyl Ether	ND		50	58.9	118	50	60.3	121	2	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		50	56.8	114	50	57.0	114	0	70-130/30
74-95-3	Methylene bromide	ND		50	52.9	106	50	52.0	104	2	70-130/30
75-09-2	Methylene chloride	ND		50	54.4	109	50	53.2	106	2	70-130/30
91-20-3	Naphthalene	ND		50	57.0	114	50	61.1	122	7	70-130/30
103-65-1	n-Propylbenzene	ND		50	61.0	122	50	59.8	120	2	70-130/30
100-42-5	Styrene	ND		50	53.1	106	50	51.9	104	2	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		50	56.0	112	50	55.0	110	2	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	54.6	109	50	55.0	110	1	70-130/30
127-18-4	Tetrachloroethene	ND		50	58.2	116	50	57.6	115	1	70-130/30
108-88-3	Toluene	ND		50	59.6	119	50	58.1	116	3	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		50	59.4	119	50	64.5	129	8	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		50	65.2	130	50	66.0	132* [a]	1	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		50	58.6	117	50	56.7	113	3	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		50	53.8	108	50	53.3	107	1	70-130/30
79-01-6	Trichloroethene	ND		50	57.5	115	50	56.0	112	3	70-130/30
75-69-4	Trichlorofluoromethane	ND		50	54.9	110	50	52.0	104	5	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		50	57.8	116	50	57.0	114	1	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		50	62.2	124	50	60.3	121	3	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		50	63.3	127	50	62.2	124	2	70-130/30
108-05-4	Vinyl Acetate	ND		50	55.2	110	50	53.7	107	3	70-130/30
75-01-4	Vinyl chloride	ND		50	47.0	94	50	45.2	90	4	70-130/30
	m,p-Xylene	ND		100	96.2	96	100	95.8	96	0	70-130/30
95-47-6	o-Xylene	ND		50	48.4	97	50	48.3	97	0	70-130/30
1330-20-7	Xylene (total)	ND		150	145	97	150	144	96	1	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27657
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC27677-1MS	V27166.D	1	01/17/14	AMY	n/a	n/a	MSV1026
MC27677-1MSD	V27167.D	1	01/17/14	AMY	n/a	n/a	MSV1026
MC27677-1	V27160.D	1	01/17/14	AMY	n/a	n/a	MSV1026

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27657-1, MC27657-2, MC27657-3

CAS No.	Surrogate Recoveries	MS	MSD	MC27677-1	Limits
1868-53-7	Dibromofluoromethane	95%	94%	93%	70-130%
2037-26-5	Toluene-D8	98%	98%	99%	70-130%
460-00-4	4-Bromofluorobenzene	99%	98%	108%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.

* = Outside of Control Limits.

Volatile Internal Standard Area Summary

Job Number: MC27657
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSV1025-CC1019	**Injection Date:**	01/16/14
Lab File ID:	V27120.D	**Injection Time:**	10:26
Instrument ID:	GCMSV	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	538424	6.57	667967	7.75	370408	11.08	406477	13.29	157364	3.53
Upper Limit [a]	1076848	7.07	1335934	8.25	740816	11.58	812954	13.79	314728	4.03
Lower Limit [b]	269212	6.07	333984	7.25	185204	10.58	203239	12.79	78682	3.03

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSV1025-BS	542731	6.57	685449	7.75	376796	11.08	401929	13.29	164214	3.53
MSV1025-MB	424940	6.58	574864	7.76	317536	11.09	306365	13.30	133105	3.53
ZZZZZZ	421823	6.57	567399	7.75	322797	11.08	303560	13.30	128832	3.52
MC27657-4	419512	6.58	564440	7.75	315295	11.09	300544	13.30	127864	3.52
MC27652-9	424345	6.58	567244	7.76	315930	11.09	303465	13.30	150141	3.53
ZZZZZZ	399860	6.58	539285	7.76	305852	11.09	289167	13.30	175925	3.53
ZZZZZZ	409808	6.58	540734	7.76	308559	11.09	305674	13.30	170553	3.54
ZZZZZZ	405932	6.58	554172	7.75	317552	11.08	304430	13.30	157476	3.53
ZZZZZZ	451153	6.58	587634	7.76	341419	11.09	329068	13.30	137954	3.54
ZZZZZZ	508905	6.57	655823	7.75	368965	11.08	368150	13.30	175300	3.53
ZZZZZZ	533938	6.57	691688	7.75	386594	11.08	375513	13.30	160344	3.53
ZZZZZZ	586674	6.58	755269	7.76	408777	11.09	445830	13.30	193570	3.53
ZZZZZZ	602682	6.58	782192	7.76	424175	11.09	438698	13.30	199365	3.53
ZZZZZZ	635097	6.58	821800	7.76	440158	11.08	450315	13.30	264365	3.53
ZZZZZZ	663085	6.58	852043	7.76	455300	11.08	466664	13.30	215366	3.53
ZZZZZZ	667177	6.58	868581	7.75	471730	11.08	484517	13.29	210304	3.52
MC27652-9MS	731482	6.57	938281	7.75	498019	11.08	541252	13.29	227645	3.51
MC27652-9MSD	731385	6.58	948671	7.75	499194	11.08	540671	13.29	231462	3.52

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: MC27657
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSV1026-CC1019	**Injection Date:**	01/17/14
Lab File ID:	V27151.D	**Injection Time:**	10:03
Instrument ID:	GCMSV	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	696176	6.57	881560	7.75	470974	11.08	518286	13.29	204664	3.52
Upper Limit [a]	1392352	7.07	1763120	8.25	941948	11.58	1036572	13.79	409328	4.02
Lower Limit [b]	348088	6.07	440780	7.25	235487	10.58	259143	12.79	102332	3.02

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSV1026-BS	696176	6.57	881560	7.75	470974	11.08	518286	13.29	204664	3.52
MSV1026-MB	552657	6.57	735971	7.75	401640	11.08	383324	13.29	175692	3.53
ZZZZZZ	560200	6.58	748104	7.75	405124	11.08	391049	13.29	173228	3.53
MC27657-1	553425	6.57	738312	7.75	395462	11.08	385056	13.29	187209	3.52
MC27657-2	522672	6.57	709848	7.75	384437	11.08	367842	13.29	175812	3.52
MC27657-3	532353	6.57	712527	7.75	384060	11.08	369070	13.29	172316	3.52
MC27677-1	568521	6.57	705055	7.75	386223	11.08	362525	13.29	186912	3.52
ZZZZZZ	520511	6.57	683231	7.75	367603	11.08	349643	13.29	167449	3.52
ZZZZZZ	505676	6.57	663654	7.75	366741	11.08	346479	13.29	165839	3.52
ZZZZZZ	471301	6.58	637653	7.75	350063	11.08	335874	13.29	158406	3.53
ZZZZZZ	570475	6.58	715540	7.75	396882	11.08	406683	13.29	241219	3.53
ZZZZZZ	591947	6.57	764004	7.75	420862	11.08	420783	13.29	236760	3.53
MC27677-1MS	653801	6.57	839341	7.75	450982	11.08	482952	13.29	201341	3.53
MC27677-1MSD	675347	6.58	863165	7.75	458865	11.08	496178	13.29	215067	3.53
ZZZZZZ	640549	6.57	830451	7.75	438575	11.08	445890	13.29	192210	3.52
ZZZZZZ	618770	6.58	823034	7.75	429141	11.08	420869	13.29	210337	3.53
ZZZZZZ	584469	6.57	782739	7.75	410706	11.08	399493	13.29	196199	3.52
ZZZZZZ	576082	6.58	767570	7.75	410750	11.08	402216	13.29	191035	3.53
ZZZZZZ	564814	6.58	757880	7.75	404152	11.08	387626	13.29	188885	3.52
ZZZZZZ	547692	6.58	734916	7.75	392286	11.08	383259	13.29	184394	3.53
ZZZZZZ	616850	6.57	780852	7.75	443429	11.08	436536	13.29	178953	3.52
ZZZZZZ	579362	6.57	764293	7.75	419167	11.08	419593	13.29	190448	3.52
ZZZZZZ	605812	6.57	810174	7.75	435376	11.08	422406	13.29	200980	3.52

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: MC27657
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Method: SW846 8260C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC27657-1	V27157.D	102	97	105
MC27657-2	V27158.D	102	97	104
MC27657-3	V27159.D	102	97	103
MC27657-4	V27126.D	108	99	105
MC27652-9MS	V27141.D	92	98	98
MC27652-9MSD	V27142.D	93	97	99
MC27677-1MS	V27166.D	95	98	99
MC27677-1MSD	V27167.D	94	98	98
MSV1025-BS	V27121.D	98	99	100
MSV1025-MB	V27124.D	107	98	105
MSV1026-BS	V27151.D	94	98	99
MSV1026-MB	V27155.D	100	98	104

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	70-130%
S2 = Toluene-D8	70-130%
S3 = 4-Bromofluorobenzene	70-130%

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC27657
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36543-MB	R36585.D	1	01/21/14	KR	01/16/14	OP36543	MSR1348

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC27657-2, MC27657-3

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.38	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.49	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.33	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	ND	10	1.3	ug/l	
	3&4-Methylphenol	ND	10	2.0	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.50	ug/l	
100-02-7	4-Nitrophenol	ND	20	0.58	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	ND	5.0	0.51	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.57	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.32	ug/l	
62-53-3	Aniline	ND	10	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.20	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.85	ug/l	
100-51-6	Benzyl Alcohol	ND	10	0.57	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.92	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.25	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.21	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.23	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.13	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.20	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.65	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.68	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.64	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.50	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.39	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	0.43	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	0.50	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.50	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.49	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.30	ug/l	

Method Blank Summary

Job Number: MC27657
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36543-MB	R36585.D	1	01/21/14	KR	01/16/14	OP36543	MSR1348

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC27657-2, MC27657-3

CAS No.	Compound	Result	RL	MDL	Units	Q
77-47-4	Hexachlorocyclopentadiene	ND	10	2.5	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.44	ug/l	
78-59-1	Isophorone	ND	5.0	0.20	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.50	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.3	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.25	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.0	0.50	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.81	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.54	ug/l	
110-86-1	Pyridine	ND	10	0.52	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	45%	15-110%
4165-62-2	Phenol-d5	30%	15-110%
118-79-6	2,4,6-Tribromophenol	70%	15-110%
4165-60-0	Nitrobenzene-d5	87%	30-130%
321-60-8	2-Fluorobiphenyl	69%	30-130%
1718-51-0	Terphenyl-d14	82%	30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

Method Blank Summary

Job Number: MC27657
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36620-MB	W17395.D	1	01/28/14	KR	01/21/14	OP36620	MSW765

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC27657-1

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.38	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.49	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.33	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	ND	10	1.3	ug/l	
	3&4-Methylphenol	ND	10	2.0	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.50	ug/l	
100-02-7	4-Nitrophenol	ND	20	0.58	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	ND	5.0	0.51	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.57	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.32	ug/l	
62-53-3	Aniline	ND	10	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.20	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.85	ug/l	
100-51-6	Benzyl Alcohol	ND	10	0.57	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.92	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.25	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.21	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.23	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.13	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.20	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.65	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.68	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.64	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.50	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.39	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	0.43	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	0.50	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.50	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.49	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.30	ug/l	

Method Blank Summary

Job Number: MC27657
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36620-MB	W17395.D	1	01/28/14	KR	01/21/14	OP36620	MSW765

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC27657-1

CAS No.	Compound	Result	RL	MDL	Units	Q
77-47-4	Hexachlorocyclopentadiene	ND	10	2.5	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.44	ug/l	
78-59-1	Isophorone	ND	5.0	0.20	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.50	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.3	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.25	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.0	0.50	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.81	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.54	ug/l	
110-86-1	Pyridine	ND	10	0.52	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	42%	15-110%
4165-62-2	Phenol-d5	29%	15-110%
118-79-6	2,4,6-Tribromophenol	91%	15-110%
4165-60-0	Nitrobenzene-d5	69%	30-130%
321-60-8	2-Fluorobiphenyl	71%	30-130%
1718-51-0	Terphenyl-d14	93%	30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

Method Blank Summary

Job Number: MC27657
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36544-MB	R36566.D	1	01/20/14	KR	01/16/14	OP36544	MSR1346

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

MC27657-1, MC27657-2, MC27657-3

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.069	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.050	ug/l	
120-12-7	Anthracene	ND	0.10	0.092	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	0.020	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.029	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	0.032	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.027	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.039	ug/l	
218-01-9	Chrysene	ND	0.10	0.024	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.032	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.041	ug/l	
86-73-7	Fluorene	ND	0.10	0.099	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.031	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.20	0.050	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.20	0.074	ug/l	
85-01-8	Phenanthrene	ND	0.050	0.013	ug/l	
129-00-0	Pyrene	ND	0.10	0.038	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	46%	15-110%
4165-62-2	Phenol-d5	31%	15-110%
118-79-6	2,4,6-Tribromophenol	100%	15-110%
4165-60-0	Nitrobenzene-d5	88%	30-130%
321-60-8	2-Fluorobiphenyl	71%	30-130%
1718-51-0	Terphenyl-d14	76%	30-130%

Blank Spike Summary

Job Number: MC27657
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36543-BS	R36586.D	1	01/21/14	KR	01/16/14	OP36543	MSR1348

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC27657-2, MC27657-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	50	17.4	35	30-130
95-57-8	2-Chlorophenol	50	34.1	68	30-130
59-50-7	4-Chloro-3-methyl phenol	50	40.3	81	30-130
120-83-2	2,4-Dichlorophenol	50	37.0	74	30-130
105-67-9	2,4-Dimethylphenol	50	38.0	76	30-130
51-28-5	2,4-Dinitrophenol	50	35.3	71	30-130
534-52-1	4,6-Dinitro-o-cresol	50	39.2	78	30-130
95-48-7	2-Methylphenol	50	32.4	65	30-130
	3&4-Methylphenol	100	60.2	60	30-130
88-75-5	2-Nitrophenol	50	36.0	72	30-130
100-02-7	4-Nitrophenol	50	20.1	40	30-130
87-86-5	Pentachlorophenol	50	36.6	73	30-130
108-95-2	Phenol	50	16.2	32	30-130
95-95-4	2,4,5-Trichlorophenol	50	36.8	74	30-130
88-06-2	2,4,6-Trichlorophenol	50	36.4	73	30-130
62-53-3	Aniline	50	25.0	50	40-140
101-55-3	4-Bromophenyl phenyl ether	50	39.7	79	40-140
85-68-7	Butyl benzyl phthalate	50	40.1	80	40-140
100-51-6	Benzyl Alcohol	50	28.5	57	40-140
91-58-7	2-Chloronaphthalene	50	37.8	76	40-140
106-47-8	4-Chloroaniline	50	33.7	67	40-140
111-91-1	bis(2-Chloroethoxy)methane	50	37.5	75	40-140
111-44-4	bis(2-Chloroethyl)ether	50	39.4	79	40-140
108-60-1	bis(2-Chloroisopropyl)ether	50	38.8	78	40-140
7005-72-3	4-Chlorophenyl phenyl ether	50	40.2	80	40-140
122-66-7	1,2-Diphenylhydrazine	50	48.3	97	40-140
121-14-2	2,4-Dinitrotoluene	50	40.9	82	40-140
606-20-2	2,6-Dinitrotoluene	50	37.3	75	40-140
91-94-1	3,3'-Dichlorobenzidine	50	35.4	71	40-140
132-64-9	Dibenzofuran	50	38.4	77	40-140
84-74-2	Di-n-butyl phthalate	50	37.8	76	40-140
117-84-0	Di-n-octyl phthalate	50	50.9	102	40-140
84-66-2	Diethyl phthalate	50	25.4	51	40-140
131-11-3	Dimethyl phthalate	50	7.9	16* [a]	40-140
117-81-7	bis(2-Ethylhexyl)phthalate	50	48.3	97	40-140
118-74-1	Hexachlorobenzene	50	40.2	80	40-140

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC27657
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36543-BS	R36586.D	1	01/21/14	KR	01/16/14	OP36543	MSR1348

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC27657-2, MC27657-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
77-47-4	Hexachlorocyclopentadiene	50	13.0	26* [a]	40-140
67-72-1	Hexachloroethane	50	27.0	54	40-140
78-59-1	Isophorone	50	42.6	85	40-140
88-74-4	2-Nitroaniline	50	40.1	80	40-140
99-09-2	3-Nitroaniline	50	36.6	73	40-140
100-01-6	4-Nitroaniline	50	37.6	75	40-140
98-95-3	Nitrobenzene	50	42.7	85	40-140
62-75-9	n-Nitrosodimethylamine	50	24.6	49	40-140
621-64-7	N-Nitroso-di-n-propylamine	50	45.0	90	40-140
86-30-6	N-Nitrosodiphenylamine	50	38.2	76	40-140
110-86-1	Pyridine	50	20.9	42	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	45%	15-110%
4165-62-2	Phenol-d5	30%	15-110%
118-79-6	2,4,6-Tribromophenol	77%	15-110%
4165-60-0	Nitrobenzene-d5	83%	30-130%
321-60-8	2-Fluorobiphenyl	68%	30-130%
1718-51-0	Terphenyl-d14	75%	30-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC27657
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36620-BS	W17396.D	1	01/28/14	KR	01/21/14	OP36620	MSW765

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC27657-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	50	20.2	40	30-130
95-57-8	2-Chlorophenol	50	37.3	75	30-130
59-50-7	4-Chloro-3-methyl phenol	50	34.3	69	30-130
120-83-2	2,4-Dichlorophenol	50	36.9	74	30-130
105-67-9	2,4-Dimethylphenol	50	32.8	66	30-130
51-28-5	2,4-Dinitrophenol	50	31.3	63	30-130
534-52-1	4,6-Dinitro-o-cresol	50	43.3	87	30-130
95-48-7	2-Methylphenol	50	30.6	61	30-130
	3&4-Methylphenol	100	55.0	55	30-130
88-75-5	2-Nitrophenol	50	39.7	79	30-130
100-02-7	4-Nitrophenol	50	13.6	27* [a]	30-130
87-86-5	Pentachlorophenol	50	38.3	77	30-130
108-95-2	Phenol	50	16.4	33	30-130
95-95-4	2,4,5-Trichlorophenol	50	35.9	72	30-130
88-06-2	2,4,6-Trichlorophenol	50	37.8	76	30-130
62-53-3	Aniline	50	26.6	53	40-140
101-55-3	4-Bromophenyl phenyl ether	50	52.3	105	40-140
85-68-7	Butyl benzyl phthalate	50	43.0	86	40-140
100-51-6	Benzyl Alcohol	50	34.9	70	40-140
91-58-7	2-Chloronaphthalene	50	38.6	77	40-140
106-47-8	4-Chloroaniline	50	38.1	76	40-140
111-91-1	bis(2-Chloroethoxy)methane	50	32.3	65	40-140
111-44-4	bis(2-Chloroethyl)ether	50	45.5	91	40-140
108-60-1	bis(2-Chloroisopropyl)ether	50	94.5	189* [b]	40-140
7005-72-3	4-Chlorophenyl phenyl ether	50	43.3	87	40-140
122-66-7	1,2-Diphenylhydrazine	50	41.8	84	40-140
121-14-2	2,4-Dinitrotoluene	50	41.2	82	40-140
606-20-2	2,6-Dinitrotoluene	50	40.3	81	40-140
91-94-1	3,3'-Dichlorobenzidine	50	41.8	84	40-140
132-64-9	Dibenzofuran	50	39.5	79	40-140
84-74-2	Di-n-butyl phthalate	50	39.4	79	40-140
117-84-0	Di-n-octyl phthalate	50	41.5	83	40-140
84-66-2	Diethyl phthalate	50	37.0	74	40-140
131-11-3	Dimethyl phthalate	50	32.1	64	40-140
117-81-7	bis(2-Ethylhexyl)phthalate	50	45.4	91	40-140
118-74-1	Hexachlorobenzene	50	53.5	107	40-140

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC27657
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36620-BS	W17396.D	1	01/28/14	KR	01/21/14	OP36620	MSW765

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC27657-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
77-47-4	Hexachlorocyclopentadiene	50	57.9	116	40-140
67-72-1	Hexachloroethane	50	30.6	61	40-140
78-59-1	Isophorone	50	40.4	81	40-140
88-74-4	2-Nitroaniline	50	39.6	79	40-140
99-09-2	3-Nitroaniline	50	37.1	74	40-140
100-01-6	4-Nitroaniline	50	37.2	74	40-140
98-95-3	Nitrobenzene	50	41.7	83	40-140
62-75-9	n-Nitrosodimethylamine	50	31.7	63	40-140
621-64-7	N-Nitroso-di-n-propylamine	50	41.0	82	40-140
86-30-6	N-Nitrosodiphenylamine	50	39.6	79	40-140
110-86-1	Pyridine	50	27.5	55	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	48%	15-110%
4165-62-2	Phenol-d5	31%	15-110%
118-79-6	2,4,6-Tribromophenol	103%	15-110%
4165-60-0	Nitrobenzene-d5	76%	30-130%
321-60-8	2-Fluorobiphenyl	76%	30-130%
1718-51-0	Terphenyl-d14	93%	30-130%

(a) Outside control limits. Blank Spike meets program technical requirements.
(b) Outside control limits. Associated samples are non-detect for this compound.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC27657
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36544-BS	R36567.D	1	01/20/14	KR	01/16/14	OP36544	MSR1346

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

MC27657-1, MC27657-2, MC27657-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	50	40.8	82	40-140
208-96-8	Acenaphthylene	50	32.1	64	40-140
120-12-7	Anthracene	50	41.9	84	40-140
56-55-3	Benzo(a)anthracene	50	51.0	102	40-140
50-32-8	Benzo(a)pyrene	50	37.1	74	40-140
205-99-2	Benzo(b)fluoranthene	50	42.1	84	40-140
191-24-2	Benzo(g,h,i)perylene	50	43.5	87	40-140
207-08-9	Benzo(k)fluoranthene	50	44.3	89	40-140
218-01-9	Chrysene	50	45.3	91	40-140
53-70-3	Dibenzo(a,h)anthracene	50	44.7	89	40-140
206-44-0	Fluoranthene	50	47.0	94	40-140
86-73-7	Fluorene	50	42.9	86	40-140
193-39-5	Indeno(1,2,3-cd)pyrene	50	44.2	88	40-140
90-12-0	1-Methylnaphthalene	50	36.5	73	40-140
91-57-6	2-Methylnaphthalene	50	35.1	70	40-140
85-01-8	Phenanthrene	50	43.5	87	40-140
129-00-0	Pyrene	50	47.1	94	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	46%	15-110%
4165-62-2	Phenol-d5	31%	15-110%
118-79-6	2,4,6-Tribromophenol	108%	15-110%
4165-60-0	Nitrobenzene-d5	82%	30-130%
321-60-8	2-Fluorobiphenyl	69%	30-130%
1718-51-0	Terphenyl-d14	70%	30-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27657
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36543-MS	R36587.D	1	01/21/14	KR	01/16/14	OP36543	MSR1348
OP36543-MSD	R36588.D	1	01/21/14	KR	01/16/14	OP36543	MSR1348
MC27500-3	R36589.D	1	01/21/14	KR	01/16/14	OP36543	MSR1348

The QC reported here applies to the following samples: Method: SW846 8270D

MC27657-2, MC27657-3

CAS No.	Compound	MC27500-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		50	16.1	32	50	17.0	34	5	30-130/20
95-57-8	2-Chlorophenol	ND		50	32.0	64	50	34.2	68	7	30-130/20
59-50-7	4-Chloro-3-methyl phenol	ND		50	39.3	79	50	41.1	82	4	30-130/20
120-83-2	2,4-Dichlorophenol	ND		50	34.8	70	50	37.0	74	6	30-130/20
105-67-9	2,4-Dimethylphenol	ND		50	32.6	65	50	33.4	67	2	30-130/20
51-28-5	2,4-Dinitrophenol	ND		50	33.8	68	50	36.3	73	7	30-130/20
534-52-1	4,6-Dinitro-o-cresol	ND		50	38.6	77	50	41.5	83	7	30-130/20
95-48-7	2-Methylphenol	ND		50	30.6	61	50	32.5	65	6	30-130/20
	3&4-Methylphenol	ND		100	57.1	57	100	60.9	61	6	30-130/20
88-75-5	2-Nitrophenol	ND		50	33.8	68	50	35.9	72	6	30-130/20
100-02-7	4-Nitrophenol	ND		50	19.9	40	50	20.5	41	3	30-130/20
87-86-5	Pentachlorophenol	ND		50	35.6	71	50	37.5	75	5	30-130/20
108-95-2	Phenol	ND		50	15.5	31	50	16.6	33	7	30-130/20
95-95-4	2,4,5-Trichlorophenol	ND		50	35.6	71	50	38.2	76	7	30-130/20
88-06-2	2,4,6-Trichlorophenol	ND		50	34.8	70	50	37.3	75	7	30-130/20
62-53-3	Aniline	ND		50	24.7	49	50	25.8	52	4	40-140/20
101-55-3	4-Bromophenyl phenyl ether	ND		50	41.7	83	50	42.3	85	1	40-140/20
85-68-7	Butyl benzyl phthalate	ND		50	43.0	86	50	43.7	87	2	40-140/20
100-51-6	Benzyl Alcohol	ND		50	27.8	56	50	30.0	60	8	40-140/20
91-58-7	2-Chloronaphthalene	ND		50	38.6	77	50	40.4	81	5	40-140/20
106-47-8	4-Chloroaniline	ND		50	34.2	68	50	35.6	71	4	40-140/20
111-91-1	bis(2-Chloroethoxy)methane	ND		50	37.4	75	50	38.8	78	4	40-140/20
111-44-4	bis(2-Chloroethyl)ether	ND		50	39.2	78	50	40.7	81	4	40-140/20
108-60-1	bis(2-Chloroisopropyl)ether	ND		50	38.8	78	50	40.5	81	4	40-140/20
7005-72-3	4-Chlorophenyl phenyl ether	ND		50	41.2	82	50	42.4	85	3	40-140/20
122-66-7	1,2-Diphenylhydrazine	ND		50	50.1	100	50	51.2	102	2	40-140/20
121-14-2	2,4-Dinitrotoluene	ND		50	41.7	83	50	42.5	85	2	40-140/20
606-20-2	2,6-Dinitrotoluene	ND		50	39.0	78	50	39.8	80	2	40-140/20
91-94-1	3,3'-Dichlorobenzidine	ND		50	40.0	80	50	40.5	81	1	40-140/20
132-64-9	Dibenzofuran	ND		50	39.2	78	50	40.2	80	3	40-140/20
84-74-2	Di-n-butyl phthalate	ND		50	40.0	80	50	40.8	82	2	40-140/20
117-84-0	Di-n-octyl phthalate	ND		50	53.5	107	50	53.7	107	0	40-140/20
84-66-2	Diethyl phthalate	ND		50	27.6	55	50	30.4	61	10	40-140/20
131-11-3	Dimethyl phthalate	ND		50	9.1	18* [a]	50	13.6	27* [a]	40* [a]	40-140/20
117-81-7	bis(2-Ethylhexyl)phthalate	ND		50	51.3	103	50	52.3	105	2	40-140/20
118-74-1	Hexachlorobenzene	ND		50	41.6	83	50	43.1	86	4	40-140/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27657
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36543-MS	R36587.D	1	01/21/14	KR	01/16/14	OP36543	MSR1348
OP36543-MSD	R36588.D	1	01/21/14	KR	01/16/14	OP36543	MSR1348
MC27500-3	R36589.D	1	01/21/14	KR	01/16/14	OP36543	MSR1348

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC27657-2, MC27657-3

CAS No.	Compound	MC27500-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
77-47-4	Hexachlorocyclopentadiene	ND		50	13.6	27* [a]	50	15.0	30* [a]	10	40-140/20
67-72-1	Hexachloroethane	ND		50	28.9	58	50	29.9	60	3	40-140/20
78-59-1	Isophorone	ND		50	43.3	87	50	44.6	89	3	40-140/20
88-74-4	2-Nitroaniline	ND		50	41.0	82	50	41.7	83	2	40-140/20
99-09-2	3-Nitroaniline	ND		50	37.8	76	50	38.7	77	2	40-140/20
100-01-6	4-Nitroaniline	ND		50	39.0	78	50	39.4	79	1	40-140/20
98-95-3	Nitrobenzene	ND		50	42.9	86	50	43.7	87	2	40-140/20
62-75-9	n-Nitrosodimethylamine	ND		50	23.6	47	50	25.2	50	7	40-140/20
621-64-7	N-Nitroso-di-n-propylamine	ND		50	46.2	92	50	47.8	96	3	40-140/20
86-30-6	N-Nitrosodiphenylamine	ND		50	40.1	80	50	41.3	83	3	40-140/20
110-86-1	Pyridine	ND		50	19.8	40	50	21.4	43	8	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC27500-3	Limits
367-12-4	2-Fluorophenol	42%	45%	42%	15-110%
4165-62-2	Phenol-d5	29%	30%	29%	15-110%
118-79-6	2,4,6-Tribromophenol	75%	79%	68%	15-110%
4165-60-0	Nitrobenzene-d5	80%	83%	80%	30-130%
321-60-8	2-Fluorobiphenyl	69%	71%	66%	30-130%
1718-51-0	Terphenyl-d14	79%	80%	86%	30-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27657
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36620-MS	W17397.D	1	01/28/14	KR	01/21/14	OP36620	MSW765
OP36620-MSD	W17398.D	1	01/28/14	KR	01/21/14	OP36620	MSW765
MC27500-15	W17399.D	1	01/28/14	KR	01/21/14	OP36620	MSW765

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC27657-1

CAS No.	Compound	MC27500-15 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		50	23.3	47	50	21.5	43	8	30-130/20
95-57-8	2-Chlorophenol	ND		50	39.5	79	50	39.5	79	0	30-130/20
59-50-7	4-Chloro-3-methyl phenol	ND		50	36.4	73	50	37.7	75	4	30-130/20
120-83-2	2,4-Dichlorophenol	ND		50	39.8	80	50	39.5	79	1	30-130/20
105-67-9	2,4-Dimethylphenol	ND		50	35.5	71	50	35.7	71	1	30-130/20
51-28-5	2,4-Dinitrophenol	ND		50	35.1	70	50	34.3	69	2	30-130/20
534-52-1	4,6-Dinitro-o-cresol	ND		50	47.7	95	50	47.6	95	0	30-130/20
95-48-7	2-Methylphenol	ND		50	33.8	68	50	33.4	67	1	30-130/20
	3&4-Methylphenol	ND		100	60.8	61	100	60.6	61	0	30-130/20
88-75-5	2-Nitrophenol	ND		50	43.2	86	50	43.7	87	1	30-130/20
100-02-7	4-Nitrophenol	ND		50	15.3	31	50	14.5	29* [a]	5	30-130/20
87-86-5	Pentachlorophenol	ND		50	41.4	83	50	41.7	83	1	30-130/20
108-95-2	Phenol	ND		50	18.2	36	50	17.7	35	3	30-130/20
95-95-4	2,4,5-Trichlorophenol	ND		50	39.6	79	50	38.6	77	3	30-130/20
88-06-2	2,4,6-Trichlorophenol	ND		50	40.3	81	50	40.4	81	0	30-130/20
62-53-3	Aniline	ND		50	28.8	58	50	28.7	57	0	40-140/20
101-55-3	4-Bromophenyl phenyl ether	ND		50	55.3	111	50	54.8	110	1	40-140/20
85-68-7	Butyl benzyl phthalate	ND		50	46.6	93	50	45.4	91	3	40-140/20
100-51-6	Benzyl Alcohol	ND		50	37.1	74	50	36.9	74	1	40-140/20
91-58-7	2-Chloronaphthalene	ND		50	40.5	81	50	40.6	81	0	40-140/20
106-47-8	4-Chloroaniline	ND		50	40.2	80	50	40.2	80	0	40-140/20
111-91-1	bis(2-Chloroethoxy)methane	ND		50	34.2	68	50	34.3	69	0	40-140/20
111-44-4	bis(2-Chloroethyl)ether	ND		50	48.6	97	50	48.4	97	0	40-140/20
108-60-1	bis(2-Chloroisopropyl)ether	ND		50	102	204* [b]	50	102	204* [b]	0	40-140/20
7005-72-3	4-Chlorophenyl phenyl ether	ND		50	47.3	95	50	46.8	94	1	40-140/20
122-66-7	1,2-Diphenylhydrazine	ND		50	44.4	89	50	44.2	88	0	40-140/20
121-14-2	2,4-Dinitrotoluene	ND		50	44.0	88	50	43.6	87	1	40-140/20
606-20-2	2,6-Dinitrotoluene	ND		50	42.8	86	50	43.5	87	2	40-140/20
91-94-1	3,3'-Dichlorobenzidine	ND		50	44.9	90	50	43.9	88	2	40-140/20
132-64-9	Dibenzofuran	ND		50	42.3	85	50	42.6	85	1	40-140/20
84-74-2	Di-n-butyl phthalate	ND		50	42.5	85	50	41.5	83	2	40-140/20
117-84-0	Di-n-octyl phthalate	ND		50	46.1	92	50	44.6	89	3	40-140/20
84-66-2	Diethyl phthalate	ND		50	40.5	81	50	40.1	80	1	40-140/20
131-11-3	Dimethyl phthalate	ND		50	33.9	68	50	36.2	72	7	40-140/20
117-81-7	bis(2-Ethylhexyl)phthalate	ND		50	48.2	96	50	47.1	94	2	40-140/20
118-74-1	Hexachlorobenzene	ND		50	56.7	113	50	56.2	112	1	40-140/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27657
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36620-MS	W17397.D	1	01/28/14	KR	01/21/14	OP36620	MSW765
OP36620-MSD	W17398.D	1	01/28/14	KR	01/21/14	OP36620	MSW765
MC27500-15	W17399.D	1	01/28/14	KR	01/21/14	OP36620	MSW765

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC27657-1

CAS No.	Compound	MC27500-15 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
77-47-4	Hexachlorocyclopentadiene	ND		50	59.7	119	50	61.1	122	2	40-140/20
67-72-1	Hexachloroethane	ND		50	32.6	65	50	33.7	67	3	40-140/20
78-59-1	Isophorone	ND		50	43.4	87	50	43.6	87	0	40-140/20
88-74-4	2-Nitroaniline	ND		50	42.8	86	50	43.2	86	1	40-140/20
99-09-2	3-Nitroaniline	ND		50	40.5	81	50	40.6	81	0	40-140/20
100-01-6	4-Nitroaniline	ND		50	40.7	81	50	39.9	80	2	40-140/20
98-95-3	Nitrobenzene	ND		50	44.6	89	50	44.8	90	0	40-140/20
62-75-9	n-Nitrosodimethylamine	ND		50	34.5	69	50	34.4	69	0	40-140/20
621-64-7	N-Nitroso-di-n-propylamine	ND		50	43.2	86	50	44.4	89	3	40-140/20
86-30-6	N-Nitrosodiphenylamine	ND		50	42.7	85	50	42.0	84	2	40-140/20
110-86-1	Pyridine	ND		50	29.3	59	50	29.2	58	0	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC27500-15	Limits
367-12-4	2-Fluorophenol	50%	50%	41%	15-110%
4165-62-2	Phenol-d5	35%	34%	28%	15-110%
118-79-6	2,4,6-Tribromophenol	111%* [c]	112%* [c]	91%	15-110%
4165-60-0	Nitrobenzene-d5	80%	81%	69%	30-130%
321-60-8	2-Fluorobiphenyl	81%	81%	70%	30-130%
1718-51-0	Terphenyl-d14	100%	97%	91%	30-130%

(a) Outside control limits. Blank Spike meets program technical requirements.
(b) Outside control limits. Associated samples are non-detect for this compound.
(c) Outside control limits due to possible matrix interference.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27657
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36544-MS	R36568.D	1	01/20/14	KR	01/16/14	OP36544	MSR1346
OP36544-MSD	R36569.D	1	01/20/14	KR	01/16/14	OP36544	MSR1346
MC27500-4	R36570.D	1	01/20/14	KR	01/16/14	OP36544	MSR1346

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

MC27657-1, MC27657-2, MC27657-3

CAS No.	Compound	MC27500-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND		50	42.1	84	50	43.3	87	3	40-140/20
208-96-8	Acenaphthylene	ND		50	33.1	66	50	34.0	68	3	40-140/20
120-12-7	Anthracene	ND		50	43.7	87	50	44.4	89	2	40-140/20
56-55-3	Benzo(a)anthracene	ND		50	53.6	107	50	54.4	109	1	40-140/20
50-32-8	Benzo(a)pyrene	ND		50	38.6	77	50	39.2	78	2	40-140/20
205-99-2	Benzo(b)fluoranthene	ND		50	43.4	87	50	45.6	91	5	40-140/20
191-24-2	Benzo(g,h,i)perylene	ND		50	45.0	90	50	45.4	91	1	40-140/20
207-08-9	Benzo(k)fluoranthene	ND		50	44.3	89	50	45.7	91	3	40-140/20
218-01-9	Chrysene	ND		50	47.5	95	50	48.3	97	2	40-140/20
53-70-3	Dibenzo(a,h)anthracene	ND		50	46.4	93	50	47.2	94	2	40-140/20
206-44-0	Fluoranthene	ND		50	49.4	99	50	50.2	100	2	40-140/20
86-73-7	Fluorene	ND		50	44.5	89	50	45.3	91	2	40-140/20
193-39-5	Indeno(1,2,3-cd)pyrene	ND		50	45.9	92	50	46.7	93	2	40-140/20
90-12-0	1-Methylnaphthalene	ND		50	37.1	74	50	38.8	78	4	40-140/20
91-57-6	2-Methylnaphthalene	ND		50	35.8	72	50	37.2	74	4	40-140/20
85-01-8	Phenanthrene	0.025	J	50	45.3	91	50	45.8	92	1	40-140/20
129-00-0	Pyrene	ND		50	49.5	99	50	50.3	101	2	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC27500-4	Limits
367-12-4	2-Fluorophenol	43%	45%	43%	15-110%
4165-62-2	Phenol-d5	29%	30%	29%	15-110%
118-79-6	2,4,6-Tribromophenol	104%	108%	97%	15-110%
4165-60-0	Nitrobenzene-d5	81%	84%	81%	30-130%
321-60-8	2-Fluorobiphenyl	70%	73%	67%	30-130%
1718-51-0	Terphenyl-d14	73%	75%	79%	30-130%

* = Outside of Control Limits.

Semivolatile Internal Standard Area Summary

Job Number: MC27657
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSR1346-CC1261	**Injection Date:**	01/20/14
Lab File ID:	R36565.D	**Injection Time:**	10:00
Instrument ID:	GCMSR	**Method:**	SW846 8270D BY SIM

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Check Std	643242	4.37	2122605	5.42	1227224	6.97	2027252	8.39	1555213	11.16	2897506	12.67
Upper Limit [a]	1286484	4.87	4245210	5.92	2454448	7.47	4054504	8.89	3110426	11.66	5795012	13.17
Lower Limit [b]	321621	3.87	1061303	4.92	613612	6.47	1013626	7.89	777607	10.66	1448753	12.17

Lab Sample ID	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
OP36544-MB	658154	4.37	2120702	5.42	1237986	6.97	2039828	8.39	1603422	11.16	2957924	12.67
OP36544-BS	674794	4.37	2149683	5.42	1224685	6.97	1980606	8.39	1572322	11.16	2839481	12.67
OP36544-MS	589626	4.37	1894185	5.42	1074109	6.97	1738052	8.39	1373358	11.17	2486511	12.67
OP36544-MSD	649315	4.37	2083331	5.42	1182237	6.97	1910059	8.39	1493347	11.17	2699537	12.67
MC27500-4	611024	4.37	1964870	5.42	1140665	6.97	1878190	8.39	1426038	11.16	2650414	12.67
MC27657-1	642337	4.37	2081479	5.42	1197246	6.97	1958901	8.39	1485373	11.16	2766318	12.67
MC27657-2	624276	4.37	2024486	5.42	1170617	6.97	1916400	8.39	1471408	11.16	2724579	12.67
MC27657-3	622542	4.37	2018547	5.42	1158564	6.97	1892901	8.39	1434147	11.16	2657021	12.67

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC27657
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSR1348-CC1262	**Injection Date:**	01/21/14
Lab File ID:	R36584.D	**Injection Time:**	07:36
Instrument ID:	GCMSR	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	426227	4.33	1614018	5.39	990145	6.93	1711816	8.22	1794233	10.86	1634469	12.60
Upper Limit [a]	852454	4.83	3228036	5.89	1980290	7.43	3423632	8.72	3588466	11.36	3268938	13.10
Lower Limit [b]	213114	3.83	807009	4.89	495073	6.43	855908	7.72	897117	10.36	817235	12.10
Lab Sample ID	**IS 1 AREA**	**RT**	**IS 2 AREA**	**RT**	**IS 3 AREA**	**RT**	**IS 4 AREA**	**RT**	**IS 5 AREA**	**RT**	**IS 6 AREA**	**RT**
OP36543-MB	405601	4.33	1492068	5.39	926916	6.93	1592500	8.22	1637672	10.86	1515396	12.60
OP36543-BS	404099	4.33	1474745	5.39	894162	6.93	1546524	8.22	1603863	10.86	1444855	12.60
OP36543-MS	365339	4.33	1342424	5.39	811532	6.93	1380295	8.22	1400001	10.86	1265119	12.60
OP36543-MSD	400261	4.33	1476090	5.39	890847	6.93	1505739	8.22	1558749	10.86	1402673	12.60
MC27500-3	381724	4.33	1429757	5.39	866875	6.93	1516077	8.22	1490592	10.86	1415348	12.60
MC27657-1 [c]	410706	4.33	1515063	5.39	915209	6.92	1600509	8.22	1556821	10.86	1429335	12.60
MC27657-2	399684	4.33	1462842	5.39	890357	6.92	1548393	8.22	1502622	10.86	1396560	12.60
MC27657-3	395930	4.33	1455063	5.39	875477	6.93	1530856	8.22	1513722	10.86	1397313	12.60
MC27672-1	438655	4.33	1625925	5.39	980966	6.92	1677442	8.22	1703542	10.86	1604697	12.60
ZZZZZZ	395248	4.33	1475123	5.39	937519	6.93	1617726	8.22	1572554	10.86	1444723	12.60
OP36530-MB	381452	4.33	1406618	5.39	848798	6.92	1478788	8.22	1448019	10.86	1365745	12.60
OP36530-BS	362675	4.33	1343645	5.39	813886	6.93	1395365	8.22	1418293	10.86	1288632	12.60
OP36530-MS	378598	4.33	1393998	5.39	848259	6.93	1444467	8.22	1488983	10.86	1348906	12.60
OP36530-MSD	409243	4.33	1487896	5.39	902893	6.93	1552107	8.22	1557139	10.86	1369548	12.60
ZZZZZZ	370109	4.33	1348421	5.39	818654	6.92	1418932	8.22	1365175	10.86	1255254	12.60

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Confirmation run.

Semivolatile Internal Standard Area Summary

Job Number: MC27657
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSW765-CC729	**Injection Date:**	01/28/14
Lab File ID:	W17393.D	**Injection Time:**	08:27
Instrument ID:	GCMSW	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	62557	4.48	241630	5.55	164010	7.10	289333	8.40	285398	11.11	259098	12.89
Upper Limit [a]	125114	4.98	483260	6.05	328020	7.60	578666	8.90	570796	11.61	518196	13.39
Lower Limit [b]	31279	3.98	120815	5.05	82005	6.60	144667	7.90	142699	10.61	129549	12.39

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP36573-MSD	51600	4.48	190131	5.55	128488	7.10	220953	8.40	218789	11.11	199324	12.88
OP36620-MB	45862	4.48	171683	5.55	116403	7.09	211050	8.39	214282	11.10	200174	12.88
OP36620-BS	45909	4.48	170101	5.55	113627	7.10	193051	8.40	187125	11.11	171996	12.88
OP36620-MS	44598	4.48	166443	5.55	112276	7.10	193739	8.40	188534	11.11	171696	12.88
OP36620-MSD	43903	4.48	165388	5.55	112667	7.10	193301	8.40	191069	11.11	173530	12.88
MC27500-15	48317	4.48	181787	5.55	122934	7.09	213141	8.39	215160	11.10	200306	12.88
OP36563-MB	54118	4.48	200323	5.55	135366	7.10	232394	8.39	233497	11.10	220000	12.88
OP36563-BS	48812	4.48	182943	5.55	126214	7.10	217602	8.40	212988	11.11	195739	12.88
OP36563-MS	55916	4.48	209206	5.55	140461	7.10	244558	8.40	238395	11.11	221713	12.88
OP36563-MSD	56353	4.48	210312	5.55	143282	7.10	244228	8.40	239235	11.11	220906	12.88
MC27677-1	54709	4.48	199963	5.55	134961	7.09	231738	8.39	235112	11.10	219462	12.88
ZZZZZZ	54563	4.48	203471	5.55	137740	7.09	236842	8.39	238154	11.10	222161	12.88
ZZZZZZ	61301	4.48	230387	5.55	154264	7.10	269640	8.39	272751	11.10	253622	12.88
ZZZZZZ	57755	4.48	213449	5.55	146595	7.09	249372	8.39	250888	11.10	231448	12.88
ZZZZZZ	50853	4.48	189728	5.55	128577	7.09	220989	8.39	220023	11.10	204076	12.88
ZZZZZZ	55848	4.48	213248	5.55	142653	7.09	246402	8.39	245601	11.10	229553	12.88
ZZZZZZ	53240	4.48	196467	5.55	133356	7.09	228689	8.39	225563	11.10	213548	12.88
ZZZZZZ	52274	4.48	192442	5.55	130055	7.09	228547	8.39	228730	11.10	212344	12.88
ZZZZZZ	54439	4.48	200602	5.55	136943	7.09	237044	8.39	240182	11.10	221646	12.88
ZZZZZZ	58150	4.48	207725	5.55	137150	7.09	227587	8.39	222648	11.11	208058	12.88
ZZZZZZ	54910	4.48	207479	5.55	138901	7.09	240133	8.39	240756	11.10	219052	12.88
ZZZZZZ	58503	4.48	215219	5.55	143541	7.09	247033	8.39	246022	11.11	225669	12.88
MC27657-1	52722	4.48	197534	5.55	132861	7.09	225541	8.39	222046	11.10	206645	12.88
MC27657-3 [c]	58030	4.48	215283	5.55	144996	7.09	250030	8.39	254277	11.10	236176	12.88
ZZZZZZ	63690	4.48	235910	5.55	150881	7.09	252450	8.39	223048	11.10	191703	12.88
ZZZZZZ	61578	4.48	231467	5.55	152070	7.09	255098	8.39	236051	11.10	211469	12.88
ZZZZZZ	57035	4.49	178697	5.57	143478	7.13	188566	8.43	203038	11.12	197699	12.89
ZZZZZZ	61983	4.48	207544	5.56	137495	7.11	213808	8.41	223896	11.11	200991	12.88

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

Semivolatile Internal Standard Area Summary

Job Number: MC27657
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSW765-CC729	**Injection Date:**	01/28/14
Lab File ID:	W17393.D	**Injection Time:**	08:27
Instrument ID:	GCMSW	**Method:**	SW846 8270D

Lab Sample ID	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Confirmation run.

Semivolatile Surrogate Recovery Summary

Job Number: MC27657
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Method: SW846 8270D **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
MC27657-1	R36590.D	2* [a]	5* [a]	12* [b]	71	57	79
MC27657-1	W17416.D	3* [a]	6* [a]	44	75	80	97
MC27657-2	R36591.D	29	20	42	53	39	79
MC27657-3	R36592.D	1* [a]	4* [a]	3* [a]	80	64	83
MC27657-3	W17417.D	2* [a]	5* [a]	7* [a]	74	77	93
OP36543-BS	R36586.D	45	30	77	83	68	75
OP36543-MB	R36585.D	45	30	70	87	69	82
OP36543-MS	R36587.D	42	29	75	80	69	79
OP36543-MSD	R36588.D	45	30	79	83	71	80
OP36620-BS	W17396.D	48	31	103	76	76	93
OP36620-MB	W17395.D	42	29	91	69	71	93
OP36620-MS	W17397.D	50	35	111* [b]	80	81	100
OP36620-MSD	W17398.D	50	34	112* [b]	81	81	97

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	15-110%
S2 = Phenol-d5	15-110%
S3 = 2,4,6-Tribromophenol	15-110%
S4 = Nitrobenzene-d5	30-130%
S5 = 2-Fluorobiphenyl	30-130%
S6 = Terphenyl-d14	30-130%

(a) Outside control limits due to possible matrix interference. Confirmed by re-extraction/reanalysis.
(b) Outside control limits due to possible matrix interference.

Semivolatile Surrogate Recovery Summary

Job Number: MC27657
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Method: SW846 8270D BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC27657-1	R36571.D	71	58	74
MC27657-2	R36572.D	54	40	74
MC27657-3	R36573.D	81	64	77
OP36544-BS	R36567.D	82	69	70
OP36544-MB	R36566.D	88	71	76
OP36544-MS	R36568.D	81	70	73
OP36544-MSD	R36569.D	84	73	75

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	30-130%
S2 = 2-Fluorobiphenyl	30-130%
S3 = Terphenyl-d14	30-130%

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries

Method Blank Summary

Job Number: MC27657
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36542-MB	BB53818.D	1	01/17/14	CZ	01/16/14	OP36542	GBB3144

The QC reported here applies to the following samples: **Method:** SW846 8011

MC27657-1, MC27657-2, MC27657-3, MC27657-5

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0054	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.011	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	Bromofluorobenzene (S)	68%	36-173%
460-00-4	Bromofluorobenzene (S)	79%	36-173%

Blank Spike Summary

Job Number: MC27657
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36542-BS	BB53819.D	1	01/17/14	CZ	01/16/14	OP36542	GBB3144

The QC reported here applies to the following samples: **Method:** SW846 8011

MC27657-1, MC27657-2, MC27657-3, MC27657-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
96-12-8	1,2-Dibromo-3-chloropropane	0.071	0.043	61	60-140
106-93-4	1,2-Dibromoethane	0.071	0.055	77	60-140

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	Bromofluorobenzene (S)	68%	36-173%
460-00-4	Bromofluorobenzene (S)	74%	36-173%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27657
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36542-MS	BB53820.D	1	01/17/14	CZ	01/16/14	OP36542	GBB3144
OP36542-MSD	BB53821.D	1	01/17/14	CZ	01/16/14	OP36542	GBB3144
MC27500-1	BB53822.D	1	01/17/14	CZ	01/16/14	OP36542	GBB3144

The QC reported here applies to the following samples: **Method:** SW846 8011

MC27657-1, MC27657-2, MC27657-3, MC27657-5

CAS No.	Compound	MC27500-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
96-12-8	1,2-Dibromo-3-chloropropane	ND		0.071	0.042	59* [a]	0.071	0.043	61* [a]	2	64-141/29
106-93-4	1,2-Dibromoethane	ND		0.071	0.054	76	0.071	0.057	80	5	63-163/27

CAS No.	Surrogate Recoveries	MS	MSD	MC27500-1	Limits
460-00-4	Bromofluorobenzene (S)	68%	71%	68%	36-173%
460-00-4	Bromofluorobenzene (S)	75%	75%	79%	36-173%

(a) Outside control limits due to possible matrix interference.

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: MC27657
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Method: SW846 8011 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]
MC27657-1	BB53823.D	74	84
MC27657-2	BB53824.D	61	71
MC27657-3	BB53825.D	67	77
MC27657-5	BB53826.D	63	73
OP36542-BS	BB53819.D	68	74
OP36542-MB	BB53818.D	68	79
OP36542-MS	BB53820.D	68	75
OP36542-MSD	BB53821.D	71	75

Surrogate Compounds	Recovery Limits
S1 = Bromofluorobenzene (S)	36-173%

(a) Recovery from GC signal #2
(b) Recovery from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC27657
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	GBB3144-CC3139	**Injection Date:**	01/17/14
Lab File ID:	BB53812.D	**Injection Time:**	00:17
Instrument ID:	GCBB	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.91	4.22

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
OP36542-MB	BB53818.D	01/17/14	02:43	4.91	4.22
OP36542-BS	BB53819.D	01/17/14	03:07	4.91	4.22
OP36542-MS	BB53820.D	01/17/14	03:31	4.92	4.22
OP36542-MSD	BB53821.D	01/17/14	03:56	4.91	4.22
MC27500-1	BB53822.D	01/17/14	04:20	4.92	4.22
MC27657-1	BB53823.D	01/17/14	04:44	4.91	4.22
MC27657-2	BB53824.D	01/17/14	05:08	4.92	4.22
MC27657-3	BB53825.D	01/17/14	05:32	4.91	4.22
MC27657-5	BB53826.D	01/17/14	05:57	4.91	4.22
GBB3144-ECC313B	BB53827.D	01/17/14	06:21	4.91	4.22

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

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Automated Report

Technical Report for

Shell Oil

URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana,

SGS Accutest Job Number: MC27745

Sampling Date: 01/16/14



Report to:

AECOM, INC.

Melissa.mansker@aecom.com

ATTN: Melissa Mansker

Total number of pages in report: 173

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

H. (Brad) Madadian
Lab Director

Client Service contact: Jeremy Vienneau 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO (MA00136) MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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Test results relate only to samples analyzed.

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SGS ACCUTEST

October 28, 2016

AECOM
1001 Highlands Plaza Drive West Suite 300
St. Louis, MO 63110

RE: SGS Accutest Job # MC27745

Dear Elizabeth Kunkel

As you are aware, SGS Accutest Inc. - Marlborough has been conducting an extensive review of data associated with some historical Gas Chromatography-Mass Spectroscopy volatiles analyses. As a result of this review it was determined that some revisions of the original test report for this job were needed. These corrections have been incorporated into the revised report.

Please be assured that corrective actions have been put in place to address this matter and prevent a recurrence.

We apologize for any inconvenience that this issue may have caused. Please don't hesitate to contact us if we can be of further assistance.

Sincerely,

H. (Brad) Madadian

Regional Laboratory Director
SGS Accutest Inc. - Marlborough

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Sample Summary

Shell Oil

Job No: MC27745

URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC27745-1	01/16/14	09:10		01/17/14	AQ	Ground Water	MW6D-ROX-011614
MC27745-2	01/16/14	10:05		01/17/14	AQ	Ground Water	MW6C-ROX-011614
MC27745-3	01/16/14	11:00		01/17/14	AQ	Ground Water	MW6B-ROX-011614
MC27745-4	01/16/14	11:15		01/17/14	AQ	Ground Water	MW6A-ROX-011614-EB
MC27745-5	01/16/14	12:10		01/17/14	AQ	Ground Water	MW6A-ROX-011614
MC27745-6	01/16/14	12:10		01/17/14	AQ	Ground Water	MW6A-ROX-011614-DUP
MC27745-7	01/16/14	14:30		01/17/14	AQ	Ground Water	MW3-ROX-011614
MC27745-8	01/16/14	00:00		01/17/14	AQ	Trip Blank Water	TB-ROX-011614-HCL
MC27745-9	01/16/14	00:00		01/17/14	AQ	Trip Blank Water	TB-ROX-011614-ST

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: She O **Job No** MC27745

Site: URSMOSTL:Roxana Q 4 GW/ 2 562973 0300 900 South Centra **Report Date** 0/28/20 6 4:5 :55 P

7 Samp e(s), 2 Tr p B ank(s) and 0 F e d B ank(s) were co ected on 0 / 6/20 4 and were rece ved at SGS Accutest New Eng and on 0 / 7/20 4 proper y preserved, at 0 2 Deg C and ntact These Samp es rece ved a job number of MC27745 A st ng of the Laboratory Samp e ID, C ent Samp e ID and dates of co ect on are presented n the Resu ts Summary Sect on of th s repo t - Ch orohexane, Benzeneth o , D benz(a,h)acr d ne, Indene and Qu no ne were searched n the brary search and reported on y f detect ons were found

Except as noted be ow, a method spec f ed ca brat ons and qua ty contro performance cr ter a were met for th s job For more nformat on, p ease refer to QC summary pages

Volatiles by GCMS By Method SW846 8260C

Matrix: AQ **Batch ID:** MSV 029

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC27745- MS, MC27745- MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a
- B ank Sp ke Recove y(s) for 2-Ch oroethy v ny ether, Acro e n are outs de contro m ts
- Matr x Sp ke Recovery(s) for 2-Ch oroethy v ny ether, Acetone, Benzene are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference
- Matr x Sp ke Dup cate Recovery(s) for 2-Ch oroethy v ny ether, Acetone, Acro e n are outs de contro m ts Probab e cause due to matr x nte ference
- ,4-D oxane, Naphtha ene: Cont nu ng Ca brat on outs de of acceptance cr ter a Samp e resu t may be b ased ow
- MSV 029-BS for 2-Ch oroethy v ny ether, Acro e n: Outs de contro m ts Assoc ated samp es are non-detect for th s compound
- Cont nu ng ca brat on check standard for 2-ch oroethy v ny ether b ased h gh Assoc ated samp e s non-detect for th s compound

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP3659

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC27500- 0MS, MC27500- 0MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a
- B ank Sp ke Recove y(s) for Benzo c Ac d, Hexach orocyc opentad ene, Pyr d ne are outs de contro m ts
- Matr x Sp ke Recovery(s) for 4-N tropheno , Hexach orocyc opentad ene, Pyr d ne, Benzo c Ac d are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference
- Matr x Sp ke Dup cate Recovery(s) for 4-N tropheno , Benzo c Ac d, Hexach orocyc opentad ene, n-N trosod methy am ne, Pheno , Pyr d ne are outs de contro m ts Probab e cause due to matr x nterference
- OP3659 -MS for Benzo c Ac d: Outs de contro m ts
- MC27745-7 for 2-F uoropheno , Pheno -d5: Outs de contro m ts due to poss b e matr x nterference Conf rmed by re-extract on/reana ys s
- OP3659 -MSD for Benzo c Ac d, n-N t rosod methy am ne outs de contro m ts
- OP36592-BSD Recovery(s) for Benzo c Ac d, Hexach orocyc opentad ne, 4-N tropheno , Pheno , n-N trosod methy am ne, Pyr d ne are outs de contro m ts

Matrix: AQ **Batch ID:** OP36652

- The fo ow ng samp es were extracted outs de of ho d ng t me for method SW846 8270D: MC27745-7
- MC27745-7: Conf rmat on run
- MC27745-7 for Pheno -d5, 2-F uoropheno : Outs de contro m ts due to poss b e matr x nterference Conf rmed by re-extract on/reana ys s

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP36592

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- A method b anks for th s batch meet method spec f c cr ter a
- Samp e(s) MC27500- 2MS, MC27500- 2MSD were used as the QC samp es nd cated

Volatiles by GC By Method SW846 8011

Matrix: AQ **Batch ID:** OP36605

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC27500- 3MS, MC27500- 3MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a

SGS Accutest New Eng and ce t f es that a ana ys s were performed w th n method spec f cat on It s further recommended that th s report to be used n ts ent rety The Laborato y D rector for SGS Accutest New Eng and or ass gnee as ver f ed by the s gnature on the cover page has author zed the re ease of th s report(MC27745)

Summary of Hits

Job Number: MC27745
Account: Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL
Collected: 01/16/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC27745-1	MW6D-ROX-011614					
Methyl Tert Butyl Ether		0.61 J	1.0	0.43	ug/l	SW846 8260C
MC27745-2	MW6C-ROX-011614					
Methyl Tert Butyl Ether		0.68 J	1.0	0.43	ug/l	SW846 8260C
Benzo(g,h,i)perylene		0.041 J	0.11	0.029	ug/l	SW846 8270D BY SIM
MC27745-3	MW6B-ROX-011614					
Methyl Tert Butyl Ether		6.9	1.0	0.43	ug/l	SW846 8260C
Benzo(g,h,i)perylene		0.051 J	0.11	0.029	ug/l	SW846 8270D BY SIM
Dibenzo(a,h)anthracene		0.042 J	0.11	0.034	ug/l	SW846 8270D BY SIM
Indeno(1,2,3-cd)pyrene		0.043 J	0.11	0.033	ug/l	SW846 8270D BY SIM
MC27745-4	MW6A-ROX-011614-EB					
No hits reported in this sample.						
MC27745-5	MW6A-ROX-011614					
Methyl Tert Butyl Ether		10.8	1.0	0.43	ug/l	SW846 8260C
MC27745-6	MW6A-ROX-011614-DUP					
Methyl Tert Butyl Ether		10.3	1.0	0.43	ug/l	SW846 8260C
MC27745-7	MW3-ROX-011614					
No hits reported in this sample.						
MC27745-8	TB-ROX-011614-HCL					
Acetone		5.2 J	10	2.8	ug/l	SW846 8260C
MC27745-9	TB-ROX-011614-ST					
No hits reported in this sample.						

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW6D-ROX-011614		
Lab Sample ID:	MC27745-1	**Date Sampled:**	01/16/14
Matrix:	AQ - Ground Water	**Date Received:**	01/17/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V27256.D	1	01/22/14	AMY	n/a	n/a	MSV1029
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6D-ROX-011614		
Lab Sample ID:	MC27745-1	**Date Sampled:**	01/16/14
Matrix:	AQ - Ground Water	**Date Received:**	01/17/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
123-91-1	1,4-Dioxane [a]	ND	25	16	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.61	1.0	0.43	ug/l	J
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene [a]	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.70	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6D-ROX-011614		
Lab Sample ID:	MC27745-1	**Date Sampled:**	01/16/14
Matrix:	AQ - Ground Water	**Date Received:**	01/17/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		70-130%
2037-26-5	Toluene-D8	99%		70-130%
460-00-4	4-Bromofluorobenzene	103%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6D-ROX-011614		
Lab Sample ID:	MC27745-1	**Date Sampled:**	01/16/14
Matrix:	AQ - Ground Water	**Date Received:**	01/17/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F71279.D	1	01/21/14	KR	01/20/14	OP36591	MSF3176
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.2	0.40	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.51	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.34	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	ND	10	1.3	ug/l	
	3&4-Methylphenol	ND	10	2.1	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.52	ug/l	
100-02-7	4-Nitrophenol	ND	21	0.60	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	ND	5.2	0.53	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.59	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.33	ug/l	
62-53-3	Aniline	ND	10	0.66	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.2	0.21	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.2	0.88	ug/l	
100-51-6	Benzyl Alcohol	ND	10	0.59	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.2	0.95	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.26	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.2	0.22	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.2	0.24	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.2	0.14	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.2	0.20	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.2	0.67	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.70	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.66	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.2	0.52	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.2	0.40	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.2	0.45	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6D-ROX-011614		
Lab Sample ID:	MC27745-1	**Date Sampled:**	01/16/14
Matrix:	AQ - Ground Water	**Date Received:**	01/17/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.2	0.52	ug/l	
131-11-3	Dimethyl phthalate	ND	5.2	0.52	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.50	ug/l	
118-74-1	Hexachlorobenzene	ND	5.2	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.6	ug/l	
67-72-1	Hexachloroethane	ND	5.2	0.45	ug/l	
78-59-1	Isophorone	ND	5.2	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.29	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.52	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.5	ug/l	
98-95-3	Nitrobenzene	ND	5.2	0.26	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.2	0.52	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.2	0.83	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.2	0.56	ug/l	
110-86-1	Pyridine	ND	10	0.53	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	32%		15-110%
4165-62-2	Phenol-d5	23%		15-110%
118-79-6	2,4,6-Tribromophenol	63%		15-110%
4165-60-0	Nitrobenzene-d5	55%		30-130%
321-60-8	2-Fluorobiphenyl	60%		30-130%
1718-51-0	Terphenyl-d14	67%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

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E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6D-ROX-011614		
Lab Sample ID:	MC27745-1	**Date Sampled:**	01/16/14
Matrix:	AQ - Ground Water	**Date Received:**	01/17/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R36660.D	1	01/22/14	KR	01/20/14	OP36592	MSR1350
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.071	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.051	ug/l	
120-12-7	Anthracene	ND	0.10	0.095	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.052	0.020	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.030	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.052	0.033	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.028	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.040	ug/l	
218-01-9	Chrysene	ND	0.10	0.025	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.033	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.042	ug/l	
86-73-7	Fluorene	ND	0.10	0.10	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.032	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.21	0.051	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.21	0.076	ug/l	
85-01-8	Phenanthrene	ND	0.052	0.013	ug/l	
129-00-0	Pyrene	ND	0.10	0.040	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	81%		30-130%
321-60-8	2-Fluorobiphenyl	64%		30-130%
1718-51-0	Terphenyl-d14	60%		30-130%

ND = Not detected MDL = Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6D-ROX-011614		
Lab Sample ID:	MC27745-1	**Date Sampled:**	01/16/14
Matrix:	AQ - Ground Water	**Date Received:**	01/17/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ87638.D	1	01/21/14	CZ	01/20/14	OP36605	GYZ7475
Run #2							

	Initial Volume	Final Volume
Run #1	36.8 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.014	0.0052	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	111%		36-173%
460-00-4	Bromofluorobenzene (S)	96%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6C-ROX-011614		
Lab Sample ID:	MC27745-2	**Date Sampled:**	01/16/14
Matrix:	AQ - Ground Water	**Date Received:**	01/17/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V27257.D	1	01/22/14	AMY	n/a	n/a	MSV1029
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6C-ROX-011614		
Lab Sample ID:	MC27745-2	**Date Sampled:**	01/16/14
Matrix:	AQ - Ground Water	**Date Received:**	01/17/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
123-91-1	1,4-Dioxane [a]	ND	25	16	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.68	1.0	0.43	ug/l	J
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene [a]	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.70	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6C-ROX-011614		
Lab Sample ID:	MC27745-2	**Date Sampled:**	01/16/14
Matrix:	AQ - Ground Water	**Date Received:**	01/17/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		70-130%
2037-26-5	Toluene-D8	99%		70-130%
460-00-4	4-Bromofluorobenzene	104%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6C-ROX-011614		
Lab Sample ID:	MC27745-2	**Date Sampled:**	01/16/14
Matrix:	AQ - Ground Water	**Date Received:**	01/17/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F71280.D	1	01/21/14	KR	01/20/14	OP36591	MSF3176
Run #2							

	Initial Volume	Final Volume
Run #1	940 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.3	0.41	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.52	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.35	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	1.3	ug/l	
95-48-7	2-Methylphenol	ND	11	1.4	ug/l	
	3&4-Methylphenol	ND	11	2.2	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.53	ug/l	
100-02-7	4-Nitrophenol	ND	21	0.62	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.3	ug/l	
108-95-2	Phenol	ND	5.3	0.54	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.61	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.34	ug/l	
62-53-3	Aniline	ND	11	0.68	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	0.22	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.3	0.91	ug/l	
100-51-6	Benzyl Alcohol	ND	11	0.61	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	0.98	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.27	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	0.22	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	0.25	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	0.14	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	0.21	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.3	0.69	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.72	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.68	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	0.53	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.17	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.3	0.41	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.3	0.46	ug/l	

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Report of Analysis

Client Sample ID:	MW6C-ROX-011614		
Lab Sample ID:	MC27745-2	**Date Sampled:**	01/16/14
Matrix:	AQ - Ground Water	**Date Received:**	01/17/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.3	0.53	ug/l	
131-11-3	Dimethyl phthalate	ND	5.3	0.53	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.52	ug/l	
118-74-1	Hexachlorobenzene	ND	5.3	0.32	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.7	ug/l	
67-72-1	Hexachloroethane	ND	5.3	0.47	ug/l	
78-59-1	Isophorone	ND	5.3	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.30	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.53	ug/l	
100-01-6	4-Nitroaniline	ND	11	4.6	ug/l	
98-95-3	Nitrobenzene	ND	5.3	0.26	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.3	0.53	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	0.86	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.58	ug/l	
110-86-1	Pyridine	ND	11	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	33%		15-110%
4165-62-2	Phenol-d5	23%		15-110%
118-79-6	2,4,6-Tribromophenol	68%		15-110%
4165-60-0	Nitrobenzene-d5	49%		30-130%
321-60-8	2-Fluorobiphenyl	58%		30-130%
1718-51-0	Terphenyl-d14	61%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

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Report of Analysis

Client Sample ID:	MW6C-ROX-011614		
Lab Sample ID:	MC27745-2	**Date Sampled:**	01/16/14
Matrix:	AQ - Ground Water	**Date Received:**	01/17/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R36661.D	1	01/22/14	KR	01/20/14	OP36592	MSR1350
Run #2							

	Initial Volume	Final Volume
Run #1	940 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.11	0.073	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.053	ug/l	
120-12-7	Anthracene	ND	0.11	0.098	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.053	0.021	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.031	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.053	0.034	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.041	0.11	0.029	ug/l	J
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.041	ug/l	
218-01-9	Chrysene	ND	0.11	0.025	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.034	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.043	ug/l	
86-73-7	Fluorene	ND	0.11	0.11	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.033	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.21	0.053	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.21	0.079	ug/l	
85-01-8	Phenanthrene	ND	0.053	0.013	ug/l	
129-00-0	Pyrene	ND	0.11	0.041	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	76%		30-130%
321-60-8	2-Fluorobiphenyl	60%		30-130%
1718-51-0	Terphenyl-d14	56%		30-130%

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6C-ROX-011614		
Lab Sample ID:	MC27745-2	**Date Sampled:**	01/16/14
Matrix:	AQ - Ground Water	**Date Received:**	01/17/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ87639.D	1	01/21/14	CZ	01/20/14	OP36605	GYZ7475
Run #2							

	Initial Volume	Final Volume
Run #1	36.4 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.014	0.0052	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	95%		36-173%
460-00-4	Bromofluorobenzene (S)	74%		36-173%

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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6B-ROX-011614		
Lab Sample ID:	MC27745-3	**Date Sampled:**	01/16/14
Matrix:	AQ - Ground Water	**Date Received:**	01/17/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V27258.D	1	01/22/14	AMY	n/a	n/a	MSV1029
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6B-ROX-011614		
Lab Sample ID:	MC27745-3	**Date Sampled:**	01/16/14
Matrix:	AQ - Ground Water	**Date Received:**	01/17/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
123-91-1	1,4-Dioxane [a]	ND	25	16	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	6.9	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene [a]	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.70	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

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Report of Analysis

Client Sample ID:	MW6B-ROX-011614		
Lab Sample ID:	MC27745-3	**Date Sampled:**	01/16/14
Matrix:	AQ - Ground Water	**Date Received:**	01/17/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		70-130%
2037-26-5	Toluene-D8	99%		70-130%
460-00-4	4-Bromofluorobenzene	104%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6B-ROX-011614		
Lab Sample ID:	MC27745-3	**Date Sampled:**	01/16/14
Matrix:	AQ - Ground Water	**Date Received:**	01/17/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F71281.D	1	01/21/14	KR	01/20/14	OP36591	MSF3176
Run #2							

	Initial Volume	Final Volume
Run #1	930 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.4	0.41	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.53	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.35	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	1.3	ug/l	
95-48-7	2-Methylphenol	ND	11	1.4	ug/l	
	3&4-Methylphenol	ND	11	2.2	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.54	ug/l	
100-02-7	4-Nitrophenol	ND	22	0.63	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.3	ug/l	
108-95-2	Phenol	ND	5.4	0.55	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.62	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.34	ug/l	
62-53-3	Aniline	ND	11	0.69	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.4	0.22	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.4	0.92	ug/l	
100-51-6	Benzyl Alcohol	ND	11	0.62	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.4	0.99	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.27	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.4	0.23	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.4	0.25	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.4	0.14	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.4	0.21	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.4	0.70	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.73	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.69	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.4	0.54	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.17	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.4	0.42	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.4	0.47	ug/l	

ND = Not detected MDL = Method Detection Limit
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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6B-ROX-011614		
Lab Sample ID:	MC27745-3	**Date Sampled:**	01/16/14
Matrix:	AQ - Ground Water	**Date Received:**	01/17/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.4	0.54	ug/l	
131-11-3	Dimethyl phthalate	ND	5.4	0.54	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.53	ug/l	
118-74-1	Hexachlorobenzene	ND	5.4	0.32	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.7	ug/l	
67-72-1	Hexachloroethane	ND	5.4	0.47	ug/l	
78-59-1	Isophorone	ND	5.4	0.22	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.30	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.54	ug/l	
100-01-6	4-Nitroaniline	ND	11	4.7	ug/l	
98-95-3	Nitrobenzene	ND	5.4	0.27	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.4	0.54	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.4	0.87	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.4	0.58	ug/l	
110-86-1	Pyridine	ND	11	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	27%		15-110%
4165-62-2	Phenol-d5	21%		15-110%
118-79-6	2,4,6-Tribromophenol	74%		15-110%
4165-60-0	Nitrobenzene-d5	50%		30-130%
321-60-8	2-Fluorobiphenyl	57%		30-130%
1718-51-0	Terphenyl-d14	77%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

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Report of Analysis

Client Sample ID:	MW6B-ROX-011614		
Lab Sample ID:	MC27745-3	**Date Sampled:**	01/16/14
Matrix:	AQ - Ground Water	**Date Received:**	01/17/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R36662.D	1	01/22/14	KR	01/20/14	OP36592	MSR1350
Run #2							

	Initial Volume	Final Volume
Run #1	930 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.11	0.074	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.053	ug/l	
120-12-7	Anthracene	ND	0.11	0.099	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.054	0.021	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.031	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.054	0.034	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.051	0.11	0.029	ug/l	J
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.042	ug/l	
218-01-9	Chrysene	ND	0.11	0.026	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.042	0.11	0.034	ug/l	J
206-44-0	Fluoranthene	ND	0.11	0.044	ug/l	
86-73-7	Fluorene	ND	0.11	0.11	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.043	0.11	0.033	ug/l	J
90-12-0	1-Methylnaphthalene	ND	0.22	0.054	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.22	0.080	ug/l	
85-01-8	Phenanthrene	ND	0.054	0.014	ug/l	
129-00-0	Pyrene	ND	0.11	0.041	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	75%		30-130%
321-60-8	2-Fluorobiphenyl	61%		30-130%
1718-51-0	Terphenyl-d14	72%		30-130%

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6B-ROX-011614		
Lab Sample ID:	MC27745-3	**Date Sampled:**	01/16/14
Matrix:	AQ - Ground Water	**Date Received:**	01/17/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ87640.D	1	01/22/14	CZ	01/20/14	OP36605	GYZ7475
Run #2							

	Initial Volume	Final Volume
Run #1	35.3 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0054	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	98%		36-173%
460-00-4	Bromofluorobenzene (S)	82%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6A-ROX-011614-EB		
Lab Sample ID:	MC27745-4	**Date Sampled:**	01/16/14
Matrix:	AQ - Ground Water	**Date Received:**	01/17/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V27259.D	1	01/22/14	AMY	n/a	n/a	MSV1029
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	

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Report of Analysis

Client Sample ID:	MW6A-ROX-011614-EB		
Lab Sample ID:	MC27745-4	**Date Sampled:**	01/16/14
Matrix:	AQ - Ground Water	**Date Received:**	01/17/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
123-91-1	1,4-Dioxane [a]	ND	25	16	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene [a]	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.70	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6A-ROX-011614-EB		
Lab Sample ID:	MC27745-4	**Date Sampled:**	01/16/14
Matrix:	AQ - Ground Water	**Date Received:**	01/17/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		70-130%
2037-26-5	Toluene-D8	99%		70-130%
460-00-4	4-Bromofluorobenzene	104%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
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J = Indicates an estimated value
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Report of Analysis

Client Sample ID:	MW6A-ROX-011614-EB		
Lab Sample ID:	MC27745-4	**Date Sampled:**	01/16/14
Matrix:	AQ - Ground Water	**Date Received:**	01/17/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F71282.D	1	01/21/14	KR	01/20/14	OP36591	MSF3176
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.1	0.39	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.50	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.33	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	ND	10	1.3	ug/l	
	3&4-Methylphenol	ND	10	2.1	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.51	ug/l	
100-02-7	4-Nitrophenol	ND	20	0.60	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	ND	5.1	0.52	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.58	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.32	ug/l	
62-53-3	Aniline	ND	10	0.65	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.1	0.21	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.1	0.87	ug/l	
100-51-6	Benzyl Alcohol	ND	10	0.59	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.1	0.94	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.26	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.1	0.21	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.1	0.24	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.1	0.14	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.1	0.20	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.1	0.67	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.69	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.65	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.1	0.51	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.1	0.40	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.1	0.44	ug/l	

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Report of Analysis

Client Sample ID:	MW6A-ROX-011614-EB		
Lab Sample ID:	MC27745-4	**Date Sampled:**	01/16/14
Matrix:	AQ - Ground Water	**Date Received:**	01/17/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.1	0.51	ug/l	
131-11-3	Dimethyl phthalate	ND	5.1	0.51	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.50	ug/l	
118-74-1	Hexachlorobenzene	ND	5.1	0.30	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.6	ug/l	
67-72-1	Hexachloroethane	ND	5.1	0.45	ug/l	
78-59-1	Isophorone	ND	5.1	0.20	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.51	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.4	ug/l	
98-95-3	Nitrobenzene	ND	5.1	0.25	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.1	0.51	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.1	0.82	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.1	0.55	ug/l	
110-86-1	Pyridine	ND	10	0.53	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	25%		15-110%
4165-62-2	Phenol-d5	18%		15-110%
118-79-6	2,4,6-Tribromophenol	50%		15-110%
4165-60-0	Nitrobenzene-d5	36%		30-130%
321-60-8	2-Fluorobiphenyl	41%		30-130%
1718-51-0	Terphenyl-d14	74%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6A-ROX-011614-EB		
Lab Sample ID:	MC27745-4	**Date Sampled:**	01/16/14
Matrix:	AQ - Ground Water	**Date Received:**	01/17/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R36663.D	1	01/22/14	KR	01/20/14	OP36592	MSR1350
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.070	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.051	ug/l	
120-12-7	Anthracene	ND	0.10	0.094	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.051	0.020	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.029	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.051	0.032	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.027	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.039	ug/l	
218-01-9	Chrysene	ND	0.10	0.024	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.033	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.041	ug/l	
86-73-7	Fluorene	ND	0.10	0.10	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.031	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.20	0.051	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.20	0.076	ug/l	
85-01-8	Phenanthrene	ND	0.051	0.013	ug/l	
129-00-0	Pyrene	ND	0.10	0.039	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	54%		30-130%
321-60-8	2-Fluorobiphenyl	43%		30-130%
1718-51-0	Terphenyl-d14	67%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6A-ROX-011614-EB		
Lab Sample ID:	MC27745-4	**Date Sampled:**	01/16/14
Matrix:	AQ - Ground Water	**Date Received:**	01/17/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ87642.D	1	01/22/14	CZ	01/20/14	OP36605	GYZ7475
Run #2							

	Initial Volume	Final Volume
Run #1	37.3 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.014	0.0051	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	121%		36-173%
460-00-4	Bromofluorobenzene (S)	107%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6A-ROX-011614		
Lab Sample ID:	MC27745-5	**Date Sampled:**	01/16/14
Matrix:	AQ - Ground Water	**Date Received:**	01/17/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V27260.D	1	01/22/14	AMY	n/a	n/a	MSV1029
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	

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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6A-ROX-011614		
Lab Sample ID:	MC27745-5	**Date Sampled:**	01/16/14
Matrix:	AQ - Ground Water	**Date Received:**	01/17/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
123-91-1	1,4-Dioxane [a]	ND	25	16	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	10.8	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene [a]	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.70	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6A-ROX-011614		
Lab Sample ID:	MC27745-5	**Date Sampled:**	01/16/14
Matrix:	AQ - Ground Water	**Date Received:**	01/17/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		70-130%
2037-26-5	Toluene-D8	100%		70-130%
460-00-4	4-Bromofluorobenzene	104%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6A-ROX-011614		
Lab Sample ID:	MC27745-5	**Date Sampled:**	01/16/14
Matrix:	AQ - Ground Water	**Date Received:**	01/17/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F71283.D	1	01/21/14	KR	01/20/14	OP36591	MSF3176
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.2	0.40	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.51	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.34	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	ND	10	1.3	ug/l	
	3&4-Methylphenol	ND	10	2.1	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.52	ug/l	
100-02-7	4-Nitrophenol	ND	21	0.60	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	ND	5.2	0.53	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.59	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.33	ug/l	
62-53-3	Aniline	ND	10	0.66	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.2	0.21	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.2	0.88	ug/l	
100-51-6	Benzyl Alcohol	ND	10	0.59	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.2	0.95	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.26	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.2	0.22	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.2	0.24	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.2	0.14	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.2	0.20	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.2	0.67	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.70	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.66	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.2	0.52	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.2	0.40	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.2	0.45	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6A-ROX-011614		
Lab Sample ID:	MC27745-5	**Date Sampled:**	01/16/14
Matrix:	AQ - Ground Water	**Date Received:**	01/17/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.2	0.52	ug/l	
131-11-3	Dimethyl phthalate	ND	5.2	0.52	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.50	ug/l	
118-74-1	Hexachlorobenzene	ND	5.2	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.6	ug/l	
67-72-1	Hexachloroethane	ND	5.2	0.45	ug/l	
78-59-1	Isophorone	ND	5.2	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.29	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.52	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.5	ug/l	
98-95-3	Nitrobenzene	ND	5.2	0.26	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.2	0.52	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.2	0.83	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.2	0.56	ug/l	
110-86-1	Pyridine	ND	10	0.53	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	38%		15-110%
4165-62-2	Phenol-d5	31%		15-110%
118-79-6	2,4,6-Tribromophenol	84%		15-110%
4165-60-0	Nitrobenzene-d5	52%		30-130%
321-60-8	2-Fluorobiphenyl	59%		30-130%
1718-51-0	Terphenyl-d14	72%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6A-ROX-011614		
Lab Sample ID:	MC27745-5	**Date Sampled:**	01/16/14
Matrix:	AQ - Ground Water	**Date Received:**	01/17/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R36664.D	1	01/22/14	KR	01/20/14	OP36592	MSR1350
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.071	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.051	ug/l	
120-12-7	Anthracene	ND	0.10	0.095	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.052	0.020	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.030	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.052	0.033	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.028	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.040	ug/l	
218-01-9	Chrysene	ND	0.10	0.025	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.033	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.042	ug/l	
86-73-7	Fluorene	ND	0.10	0.10	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.032	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.21	0.051	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.21	0.076	ug/l	
85-01-8	Phenanthrene	ND	0.052	0.013	ug/l	
129-00-0	Pyrene	ND	0.10	0.040	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	77%		30-130%
321-60-8	2-Fluorobiphenyl	62%		30-130%
1718-51-0	Terphenyl-d14	67%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6A-ROX-011614		
Lab Sample ID:	MC27745-5	**Date Sampled:**	01/16/14
Matrix:	AQ - Ground Water	**Date Received:**	01/17/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ87643.D	1	01/22/14	CZ	01/20/14	OP36605	GYZ7475
Run #2							

	Initial Volume	Final Volume
Run #1	36.1 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0053	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	120%		36-173%
460-00-4	Bromofluorobenzene (S)	85%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6A-ROX-011614-DUP		
Lab Sample ID:	MC27745-6	**Date Sampled:**	01/16/14
Matrix:	AQ - Ground Water	**Date Received:**	01/17/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V27261.D	1	01/22/14	AMY	n/a	n/a	MSV1029
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	

ND = Not detected MDL = Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6A-ROX-011614-DUP		
Lab Sample ID:	MC27745-6	**Date Sampled:**	01/16/14
Matrix:	AQ - Ground Water	**Date Received:**	01/17/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
123-91-1	1,4-Dioxane [a]	ND	25	16	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	10.3	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene [a]	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.70	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6A-ROX-011614-DUP		
Lab Sample ID:	MC27745-6	**Date Sampled:**	01/16/14
Matrix:	AQ - Ground Water	**Date Received:**	01/17/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		70-130%
2037-26-5	Toluene-D8	99%		70-130%
460-00-4	4-Bromofluorobenzene	103%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
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Report of Analysis

Client Sample ID:	MW6A-ROX-011614-DUP		
Lab Sample ID:	MC27745-6	**Date Sampled:**	01/16/14
Matrix:	AQ - Ground Water	**Date Received:**	01/17/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F71284.D	1	01/21/14	KR	01/20/14	OP36591	MSF3176
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.3	0.40	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.52	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.35	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	1.3	ug/l	
95-48-7	2-Methylphenol	ND	11	1.4	ug/l	
	3&4-Methylphenol	ND	11	2.1	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.53	ug/l	
100-02-7	4-Nitrophenol	ND	21	0.61	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.3	ug/l	
108-95-2	Phenol	ND	5.3	0.54	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.60	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.33	ug/l	
62-53-3	Aniline	ND	11	0.67	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	0.21	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.3	0.90	ug/l	
100-51-6	Benzyl Alcohol	ND	11	0.61	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	0.97	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.26	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	0.22	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	0.24	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	0.14	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	0.21	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.3	0.69	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.71	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.68	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	0.53	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.3	0.41	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.3	0.46	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6A-ROX-011614-DUP		
Lab Sample ID:	MC27745-6	**Date Sampled:**	01/16/14
Matrix:	AQ - Ground Water	**Date Received:**	01/17/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.3	0.53	ug/l	
131-11-3	Dimethyl phthalate	ND	5.3	0.53	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.51	ug/l	
118-74-1	Hexachlorobenzene	ND	5.3	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.6	ug/l	
67-72-1	Hexachloroethane	ND	5.3	0.46	ug/l	
78-59-1	Isophorone	ND	5.3	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.29	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.53	ug/l	
100-01-6	4-Nitroaniline	ND	11	4.6	ug/l	
98-95-3	Nitrobenzene	ND	5.3	0.26	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.3	0.53	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	0.85	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.57	ug/l	
110-86-1	Pyridine	ND	11	0.54	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	38%		15-110%
4165-62-2	Phenol-d5	30%		15-110%
118-79-6	2,4,6-Tribromophenol	79%		15-110%
4165-60-0	Nitrobenzene-d5	50%		30-130%
321-60-8	2-Fluorobiphenyl	57%		30-130%
1718-51-0	Terphenyl-d14	70%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
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E = Indicates value exceeds calibration range
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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6A-ROX-011614-DUP		
Lab Sample ID:	MC27745-6	**Date Sampled:**	01/16/14
Matrix:	AQ - Ground Water	**Date Received:**	01/17/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R36665.D	1	01/22/14	KR	01/20/14	OP36592	MSR1350
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.11	0.073	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.052	ug/l	
120-12-7	Anthracene	ND	0.11	0.097	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.053	0.021	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.030	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.053	0.033	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.028	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.041	ug/l	
218-01-9	Chrysene	ND	0.11	0.025	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.034	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.043	ug/l	
86-73-7	Fluorene	ND	0.11	0.10	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.032	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.21	0.053	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.21	0.078	ug/l	
85-01-8	Phenanthrene	ND	0.053	0.013	ug/l	
129-00-0	Pyrene	ND	0.11	0.040	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	74%		30-130%
321-60-8	2-Fluorobiphenyl	60%		30-130%
1718-51-0	Terphenyl-d14	64%		30-130%

ND = Not detected MDL = Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6A-ROX-011614-DUP		
Lab Sample ID:	MC27745-6	**Date Sampled:**	01/16/14
Matrix:	AQ - Ground Water	**Date Received:**	01/17/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ87644.D	1	01/22/14	CZ	01/20/14	OP36605	GYZ7475
Run #2							

	Initial Volume	Final Volume
Run #1	35.8 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0053	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	111%		36-173%
460-00-4	Bromofluorobenzene (S)	86%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW3-ROX-011614		
Lab Sample ID:	MC27745-7	**Date Sampled:**	01/16/14
Matrix:	AQ - Ground Water	**Date Received:**	01/17/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V27262.D	1	01/22/14	AMY	n/a	n/a	MSV1029
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW3-ROX-011614		
Lab Sample ID:	MC27745-7	**Date Sampled:**	01/16/14
Matrix:	AQ - Ground Water	**Date Received:**	01/17/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
123-91-1	1,4-Dioxane [a]	ND	25	16	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene [a]	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.70	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW3-ROX-011614		
Lab Sample ID:	MC27745-7	**Date Sampled:**	01/16/14
Matrix:	AQ - Ground Water	**Date Received:**	01/17/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		70-130%
2037-26-5	Toluene-D8	98%		70-130%
460-00-4	4-Bromofluorobenzene	103%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW3-ROX-011614		
Lab Sample ID:	MC27745-7	**Date Sampled:**	01/16/14
Matrix:	AQ - Ground Water	**Date Received:**	01/17/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F71285.D	1	01/21/14	KR	01/20/14	OP36591	MSF3176
Run #2 [a]	W17437.D	1	01/29/14	KR	01/28/14	OP36652	MSW766

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2	970 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.3	0.40	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.52	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.35	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	1.3	ug/l	
95-48-7	2-Methylphenol	ND	11	1.4	ug/l	
	3&4-Methylphenol	ND	11	2.1	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.53	ug/l	
100-02-7	4-Nitrophenol	ND	21	0.61	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.3	ug/l	
108-95-2	Phenol	ND	5.3	0.54	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.60	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.33	ug/l	
62-53-3	Aniline	ND	11	0.67	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	0.21	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.3	0.90	ug/l	
100-51-6	Benzyl Alcohol	ND	11	0.61	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	0.97	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.26	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	0.22	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	0.24	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	0.14	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	0.21	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.3	0.69	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.71	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.68	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	0.53	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.3	0.41	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.3	0.46	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW3-ROX-011614		
Lab Sample ID:	MC27745-7	**Date Sampled:**	01/16/14
Matrix:	AQ - Ground Water	**Date Received:**	01/17/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.3	0.53	ug/l	
131-11-3	Dimethyl phthalate	ND	5.3	0.53	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.51	ug/l	
118-74-1	Hexachlorobenzene	ND	5.3	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.6	ug/l	
67-72-1	Hexachloroethane	ND	5.3	0.46	ug/l	
78-59-1	Isophorone	ND	5.3	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.29	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.53	ug/l	
100-01-6	4-Nitroaniline	ND	11	4.6	ug/l	
98-95-3	Nitrobenzene	ND	5.3	0.26	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.3	0.53	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	0.85	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.57	ug/l	
110-86-1	Pyridine	ND	11	0.54	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	1% [b]	2% [b]	15-110%
4165-62-2	Phenol-d5	2% [b]	1% [b]	15-110%
118-79-6	2,4,6-Tribromophenol	20%	21%	15-110%
4165-60-0	Nitrobenzene-d5	44%	70%	30-130%
321-60-8	2-Fluorobiphenyl	50%	75%	30-130%
1718-51-0	Terphenyl-d14	66%	95%	30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

(a) Confirmation run.
(b) Outside control limits due to possible matrix interference. Confirmed by re-extraction/reanalysis.

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E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW3-ROX-011614		
Lab Sample ID:	MC27745-7	**Date Sampled:**	01/16/14
Matrix:	AQ - Ground Water	**Date Received:**	01/17/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R36666.D	1	01/22/14	KR	01/20/14	OP36592	MSR1350
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.11	0.073	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.052	ug/l	
120-12-7	Anthracene	ND	0.11	0.097	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.053	0.021	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.030	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.053	0.033	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.028	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.041	ug/l	
218-01-9	Chrysene	ND	0.11	0.025	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.034	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.043	ug/l	
86-73-7	Fluorene	ND	0.11	0.10	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.032	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.21	0.053	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.21	0.078	ug/l	
85-01-8	Phenanthrene	ND	0.053	0.013	ug/l	
129-00-0	Pyrene	ND	0.11	0.040	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	65%		30-130%
321-60-8	2-Fluorobiphenyl	53%		30-130%
1718-51-0	Terphenyl-d14	59%		30-130%

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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW3-ROX-011614		
Lab Sample ID:	MC27745-7	**Date Sampled:**	01/16/14
Matrix:	AQ - Ground Water	**Date Received:**	01/17/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ87645.D	1	01/22/14	CZ	01/20/14	OP36605	GYZ7475
Run #2							

	Initial Volume	Final Volume
Run #1	35.8 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0053	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	108%		36-173%
460-00-4	Bromofluorobenzene (S)	95%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-011614-HCL		
Lab Sample ID:	MC27745-8	**Date Sampled:**	01/16/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/17/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V27253.D	1	01/22/14	AMY	n/a	n/a	MSV1029
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	5.2	10	2.8	ug/l	J
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	

ND = Not detected MDL = Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-011614-HCL		
Lab Sample ID:	MC27745-8	**Date Sampled:**	01/16/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/17/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
123-91-1	1,4-Dioxane [a]	ND	25	16	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene [a]	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.70	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

ND = Not detected MDL = Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-011614-HCL		
Lab Sample ID:	MC27745-8	**Date Sampled:**	01/16/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/17/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		70-130%
2037-26-5	Toluene-D8	99%		70-130%
460-00-4	4-Bromofluorobenzene	104%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-011614-ST		
Lab Sample ID:	MC27745-9	**Date Sampled:**	01/16/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/17/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ87646.D	1	01/22/14	CZ	01/20/14	OP36605	GYZ7475
Run #2							

	Initial Volume	Final Volume
Run #1	36.5 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.014	0.0052	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	84%		36-173%
460-00-4	Bromofluorobenzene (S)	73%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

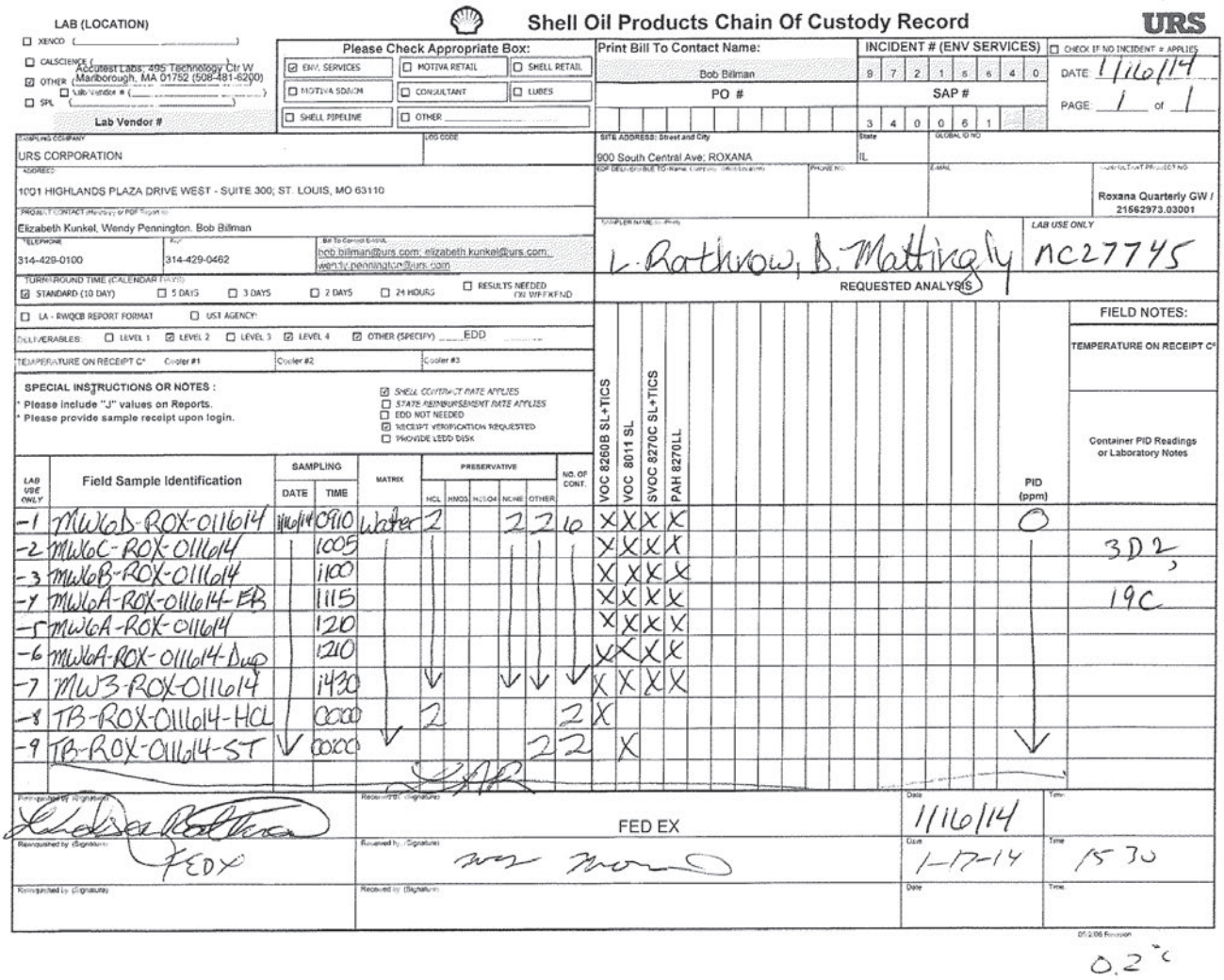
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- REPROC Form: Reprocessed/Corrected Data
- Sample Tracking Chronicle
- Internal Chain of Custody



Shell Oil Products Chain Of Custody Record

URS

LAB (LOCATION)
☐ XENCO (_____)
☐ CALSCIENCE (_____)
☑ OTHER (Accutest Labs, 495 Technology Ctr W Marlborough, MA 01752 (508-481-6200))
☐ SPL (_____)
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SOMOH ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Bob Billman
PO #
INCIDENT # (ENV SERVICES) 9 7 2 1 5 6 4 0
SAP # 3 4 0 0 6 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE 1/16/14
PAGE 1 of 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE
SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA
State: IL
GLOBAL ID NO
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
PROJECT CONTACT (Hardcopy or PDF to): Elizabeth Kunkel, Wendy Pennington, Bob Billman
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Be To Contact E-mail: bob.billman@urs.com; elizabeth.kunkel@urs.com; wendy.pennington@urs.com
PHONE NO
E-MAIL
SHELL CONTRACT/PROJECT NO: Roxana Quarterly GW / 21562973.03001
SAMPLER NAME(S) (Print): L. Rathrow, B. Mattingly
LAB USE ONLY: NC27745

TURNAROUND TIME (CALENDAR DAYS)
☑ STANDARD (10 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED (NO WEEKEND)

REQUESTED ANALYSIS

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:
DELIVERABLES: ☐ LEVEL 1 ☑ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☑ OTHER (SPECIFY) EDD
TEMPERATURE ON RECEIPT C° Cooler #1 Cooler #2 Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :
* Please include "J" values on Reports.
* Please provide sample receipt upon login.
☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE LEDD DISK

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8260B SL+TICS	VOC 8011 SL	SVOC 8270C SL+TICS	PAH 8270LL	PID (ppm)	Container PID Readings or Laboratory Notes
-1	MW6B-ROX-011614	1/16/14	0910	Water	2			2	2	10	X	X	X	X	0	
-2	MW6C-ROX-011614		1005								X	X	X	X		3D2,
-3	MW6B-ROX-011614		1100								X	X	X	X		
-4	MW6A-ROX-011614-EB		1115								X	X	X	X		19C
-5	MW6A-ROX-011614		1120								X	X	X	X		
-6	MW6A-ROX-011614-Dup		1210								X	X	X	X		
-7	MW3-ROX-011614		1430								X	X	X	X		
-8	TB-ROX-011614-HCL		0000		2					2	X					
-9	TB-ROX-011614-ST		0000						2	2		X				

FIELD NOTES:
TEMPERATURE ON RECEIPT C°

Relinquished by (Signature)	Received for (Signature)	Date	Time
	FED EX	1/16/14	
FEDX		1-17-14	15 30

0.2°C

MC27745: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC27745 **Client:** URS **Immediate Client Services Action Required:** No

Date / Time Received: 1/17/2014 **Delivery Method:** **Client Service Action Required at Login:** No

Project: URS **No. Coolers:** 1 **Airbill #'s:**

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Infared gun		
3. Cooler media:	Ice (bag)		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

Marlborough, MA
www/accutest.com

MC27745: Chain of Custody
Page 2 of 2

Initial Calibration Summary

Job Number: MC27745 **Sample:** MSV1019-ICC1019
Account: SHELLWIC Shell Oil **Lab FileID:** V26938.D
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Response Factor Report MSV

Method : O:\msv\1\methods\v140107wx.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Calibration Files
0.25=v26932.d 0.5 =v26933.d 1 =v26934.d 2 =v26935.d
5 =v26936.d 10 =v26937.d 50 =v26938.d 100 =v26939.d
200 =v26940.d 400 =v26942.d = =

Compound

	0.25	0.5	1	2	5	10	50	100	200	400	Avg	%RSD
1) I tert butyl alcohol-d9 ----------ISTD----------												
2) Ethanol				0.166	0.141	0.140	0.070	0.095	0.070	0.077	0.108	36.81
---- Linear regression ---- Coefficient = 0.9924												
Response Ratio = 0.07206 + 0.07518 *A												
3) I pentafluorobenzene ----------ISTD----------												
4) chloroethane				0.708	0.546	0.470	0.438	0.407	0.399	0.368	0.311	0.456	27.04
---- Linear regression ---- Coefficient = 0.9911												
Response Ratio = 0.00673 + 0.37855 *A												

(#) = Out of Range ### Number of calibration levels exceeded format ###

v140107wx.m Mon Oct 12 12:04:54 2015

Initial Calibration Verification

Job Number: MC27745 **Sample:** MSV1019-ICV1019
Account: SHELLWIC Shell Oil **Lab FileID:** V26944.D
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Evaluate Continuing Calibration Report

Data File : O:\msv\1\databackup\v140107\v26944.d Vial: 22
Acq On : 7 Jan 2014 7:05 pm Operator: amym
Sample : icv1019-50 Inst : MSV
Misc : MS30921,MSV1019,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : O:\msv\1\methods\v140107wx.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Oct 12 12:03:49 2015
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	tert butyl alcohol-d9	1.000	1.000	0.0	110	-0.01	3.51
		Amount	Calc.	%Drift			
2 p	Ethanol	5000.000	6281.655	-25.6#	160	0.01	2.50
		AvgRF	CCRF	%Dev			
3 I	pentafluorobenzene	1.000	1.000	0.0	113	0.00	6.55
		Amount	Calc.	%Drift			
4 p	chloroethane	50.000	55.636	-11.3	119	0.00	2.15

(#) = Out of Range SPCC's out = 0 CCC's out = 0
v26938.d v140107wx.m Mon Oct 12 12:05:26 2015

Continuing Calibration Summary

Job Number: MC27745 **Sample:** MSV1029-CC1019
Account: SHELLWIC Shell Oil **Lab FileID:** V27246.D
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Evaluate Continuing Calibration Report

Data File : O:\msv\1\databackup\v140122\v27246.d Vial: 2
Acq On : 22 Jan 2014 8:45 am Operator: amym
Sample : cc1019-50 Inst : MSV
Misc : MS30995,MSV1029,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : O:\msv\1\methods\v140107wx.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Oct 12 12:03:49 2015
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	tert butyl alcohol-d9	1.000	1.000	0.0	92	0.00	3.53
		Amount	Calc.	%Drift			
2 p	Ethanol	5000.000	8414.089	-68.3#	176	0.03	2.52
		AvgRF	CCRF	%Dev			
3 I	pentafluorobenzene	1.000	1.000	0.0	93	0.02	6.58
		Amount	Calc.	%Drift			
4 p	chloroethane	50.000	50.546	-1.1	89	0.01	2.17

(#) = Out of Range SPCC's out = 0 CCC's out = 0
v26938.d v140107wx.m Tue Nov 17 18:29:41 2015

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26932.d
Acq On : 7 Jan 2014 12:30 pm
Operator : amym
Sample : ic1019-0.25
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 12 11:50:29 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

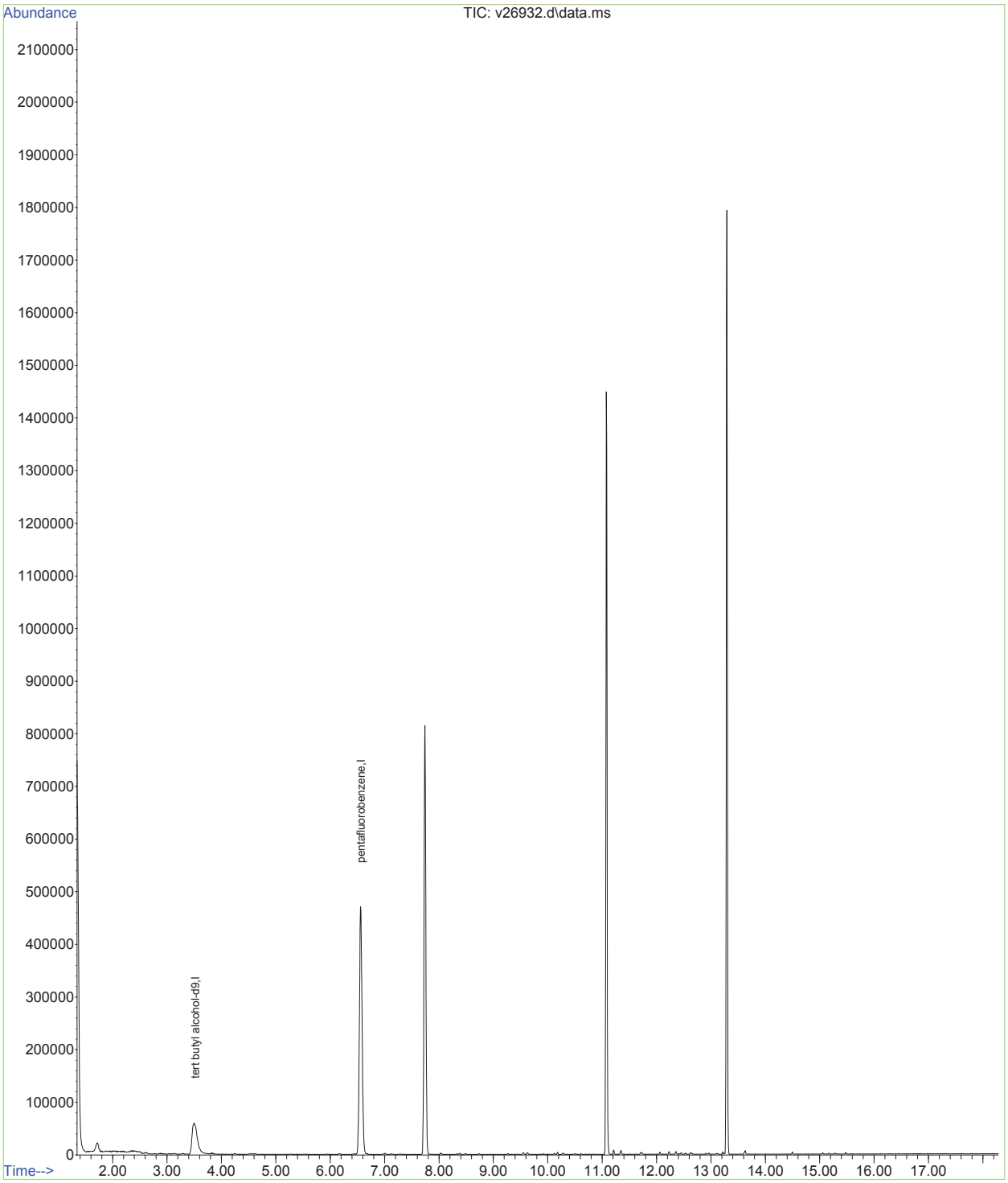
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.522	65	168440	500.00	ug/L	0.00
3) pentafluorobenzene	6.564	168	534929	50.00	ug/L	0.00
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST MC27745

Data Path : O:\msv\1\databackup\v140107\
Data File : v26932.d
Acq On : 7 Jan 2014 12:30 pm
Operator : amym
Sample : ic1019-0.25
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 12 11:50:29 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26933.d
Acq On : 7 Jan 2014 12:56 pm
Operator : amym
Sample : ic1019-0.5
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 12 11:50:59 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

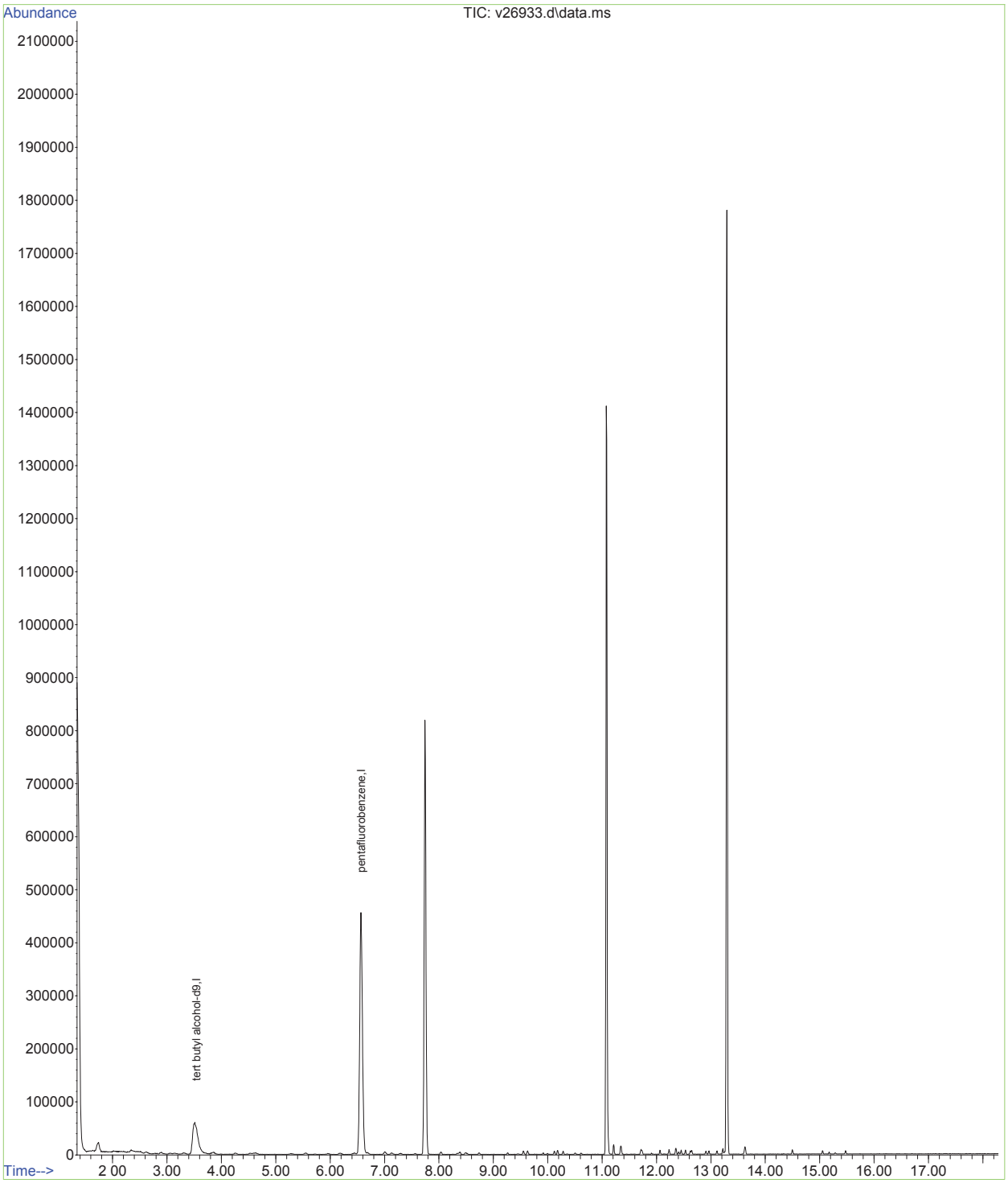
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.537	65	168993	500.00	ug/L	0.01
3) pentafluorobenzene	6.570	168	523768	50.00	ug/L	0.01

Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msv\1\databackup\v140107\
Data File : v26933.d
Acq On : 7 Jan 2014 12:56 pm
Operator : amym
Sample : ic1019-0.5
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 12 11:50:59 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26934.d
Acq On : 7 Jan 2014 1:22 pm
Operator : amym
Sample : ic1019-1
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

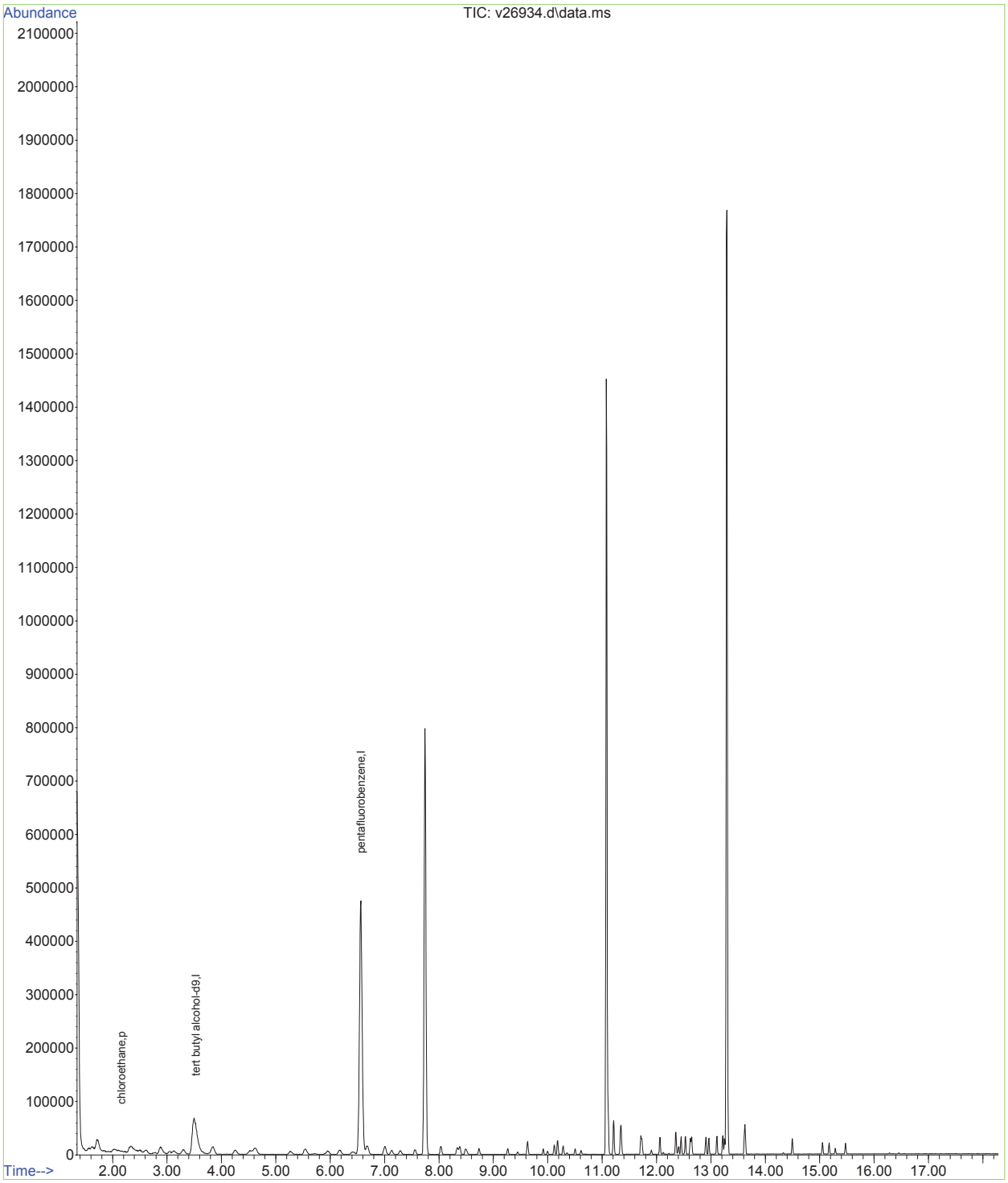
Quant Time: Oct 12 11:52:02 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.527	65	169438	500.00	ug/L	0.00
3) pentafluorobenzene	6.565	168	527887	50.00	ug/L	0.00
Target Compounds						Qvalue
4) chloroethane	2.159	64	7471m	1.74	ug/L	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

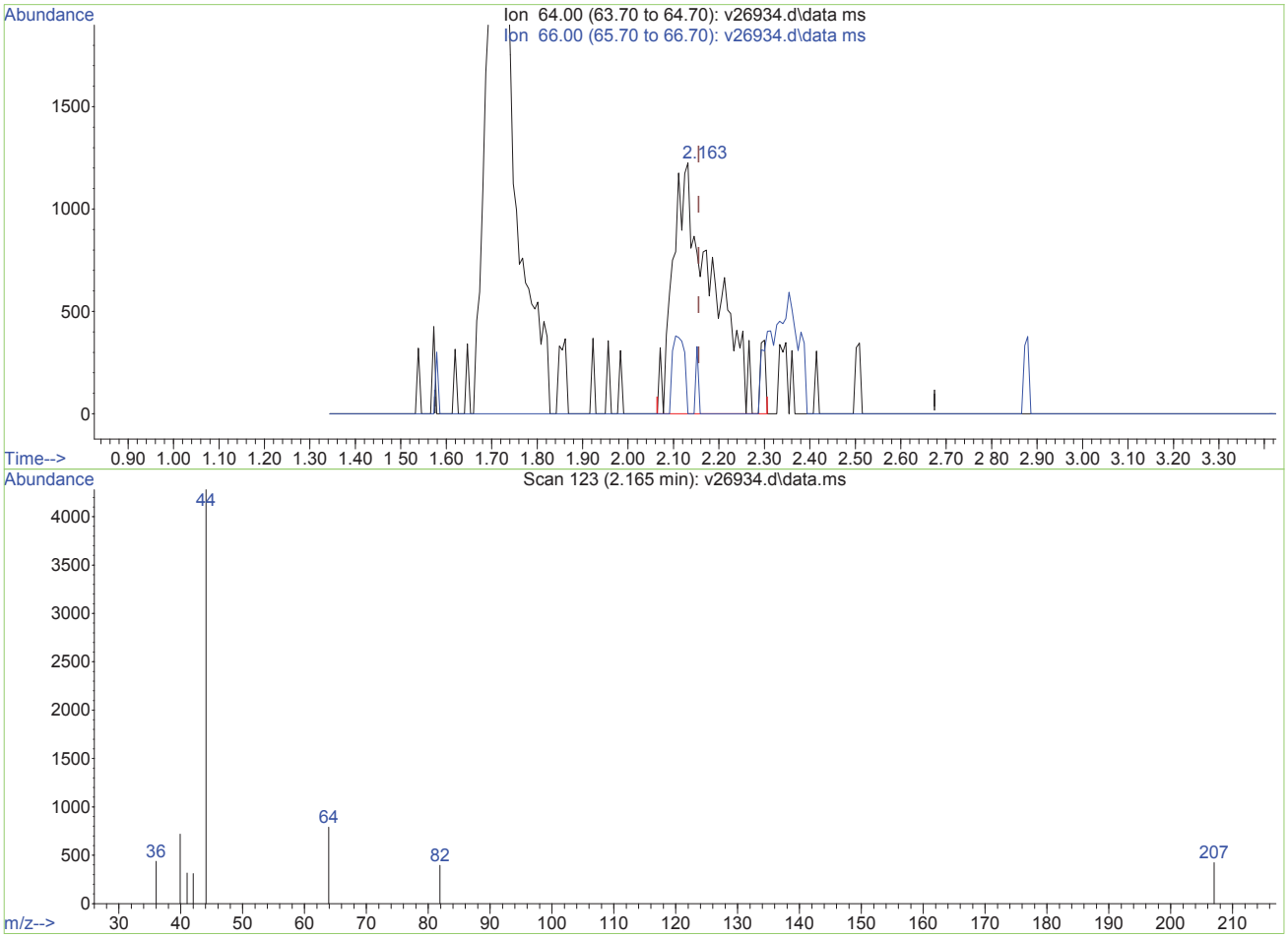
Data Path : O:\msv\1\databackup\v140107\
Data File : v26934.d
Acq On : 7 Jan 2014 1:22 pm
Operator : amym
Sample : ic1019-1
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 12 11:52:02 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Data Path : O:\msv\1\databackup\v140107\
Data File : v26934.d
Acq On : 7 Jan 2014 1:22 pm
Operator : amym
Sample : ic1019-1
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 12 11:49:53 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26934.d\data.ms

(4) chloroethane (p)

2.163min (+0.008) 1.81ug/L

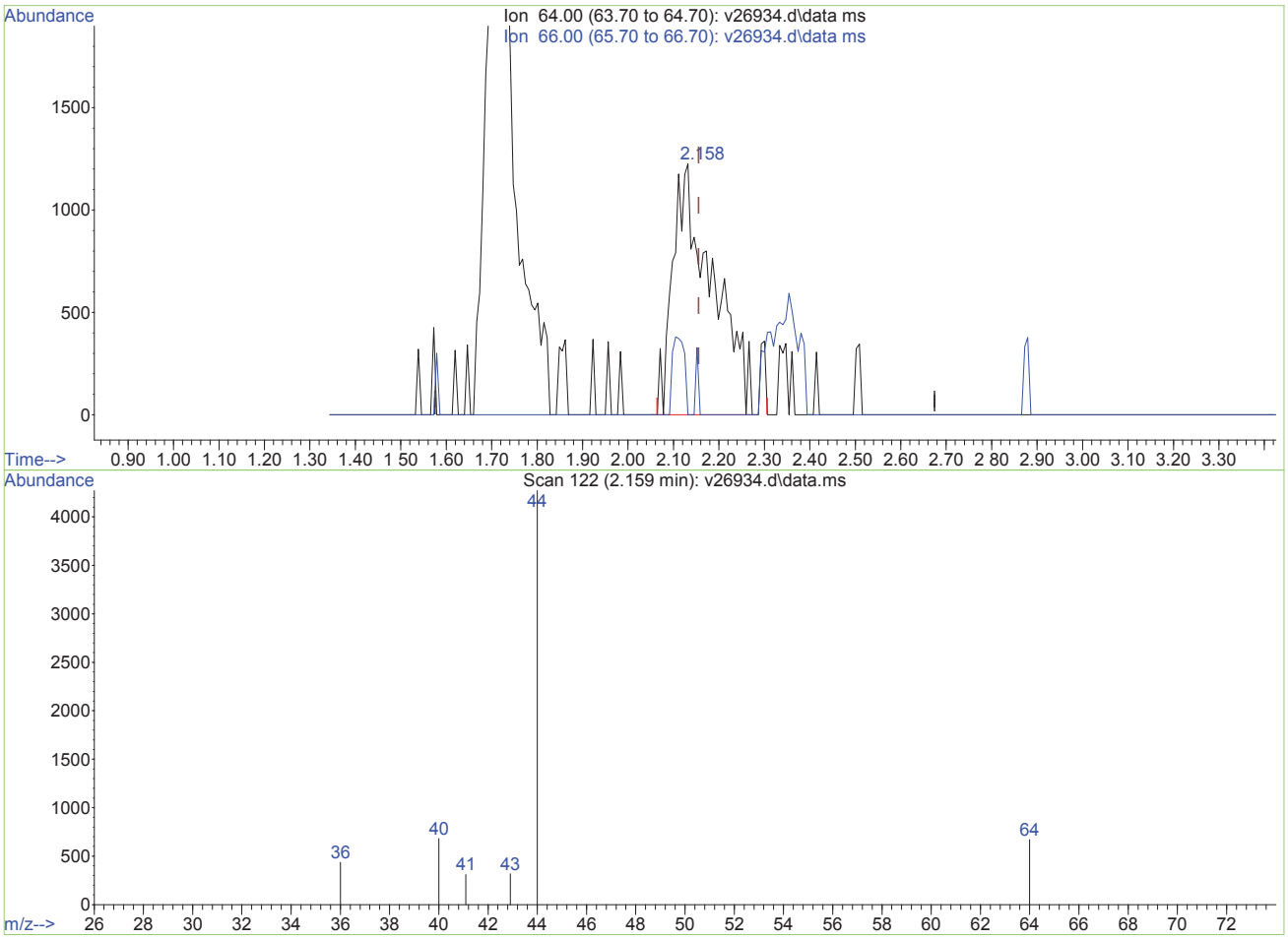
response 7756

Ion	Exp%	Act%
64.00	100	100
66.00	34.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26934.D edits: chloroethane

Data Path : O:\msv\1\databackup\v140107\
Data File : v26934.d
Acq On : 7 Jan 2014 1:22 pm
Operator : amym
Sample : ic1019-1
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 12 11:49:53 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26934.d\data.ms

(4) chloroethane (p)

2.159min (+0.003) 1.74ug/L m

response 7471

Ion	Exp%	Act%
64.00	100	100
66.00	34.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26934.D edits: chloroethane

Data Path : O:\msv\1\databackup\v140107\
Data File : v26935.d
Acq On : 7 Jan 2014 1:49 pm
Operator : amym
Sample : ic1019-2
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

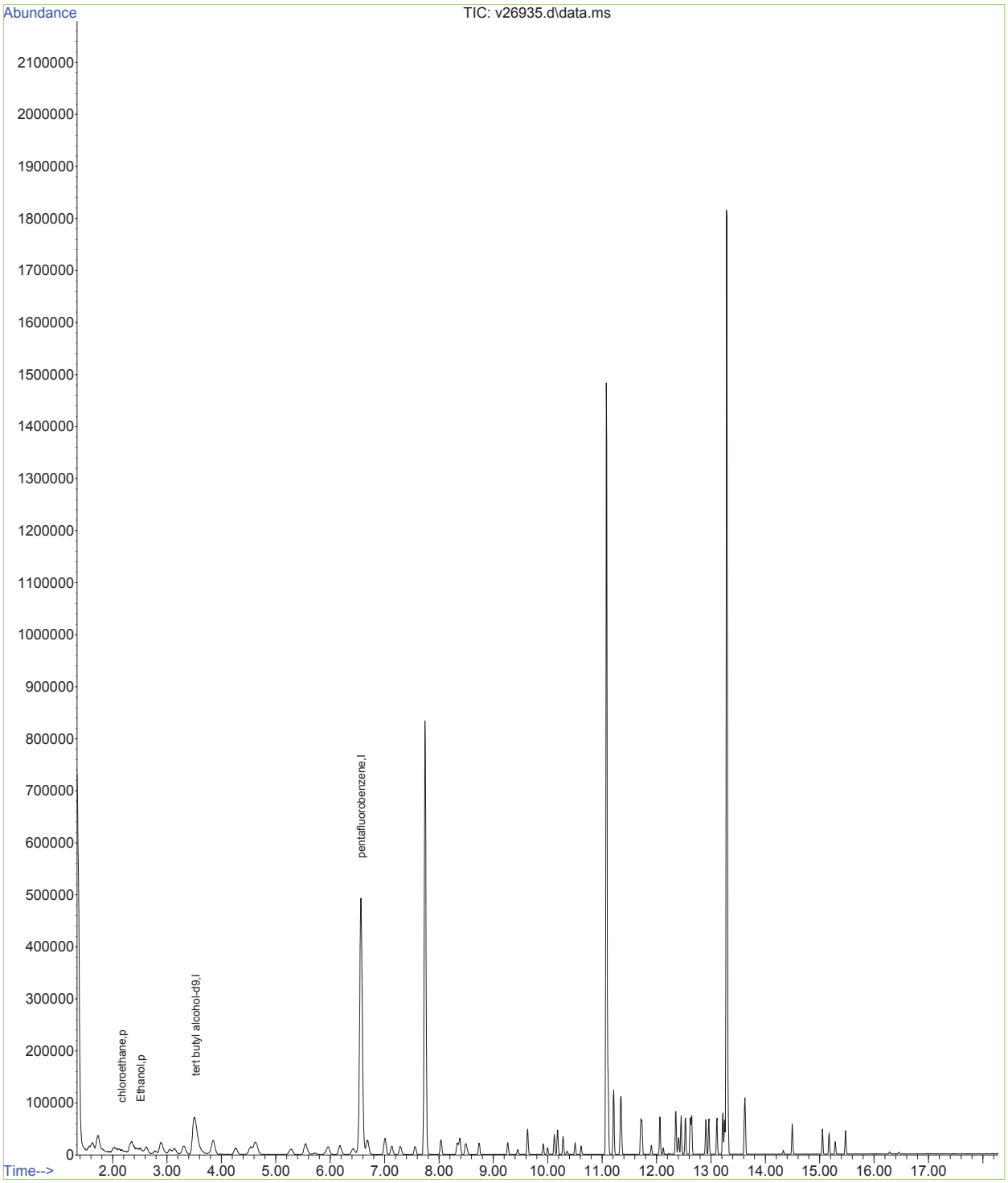
Quant Time: Oct 12 11:52:51 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.533	65	165100	500.00	ug/L	0.01
3) pentafluorobenzene	6.569	168	548060	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.516	45	10989m	474.44	ug/L	
4) chloroethane	2.170	64	11967	2.68	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

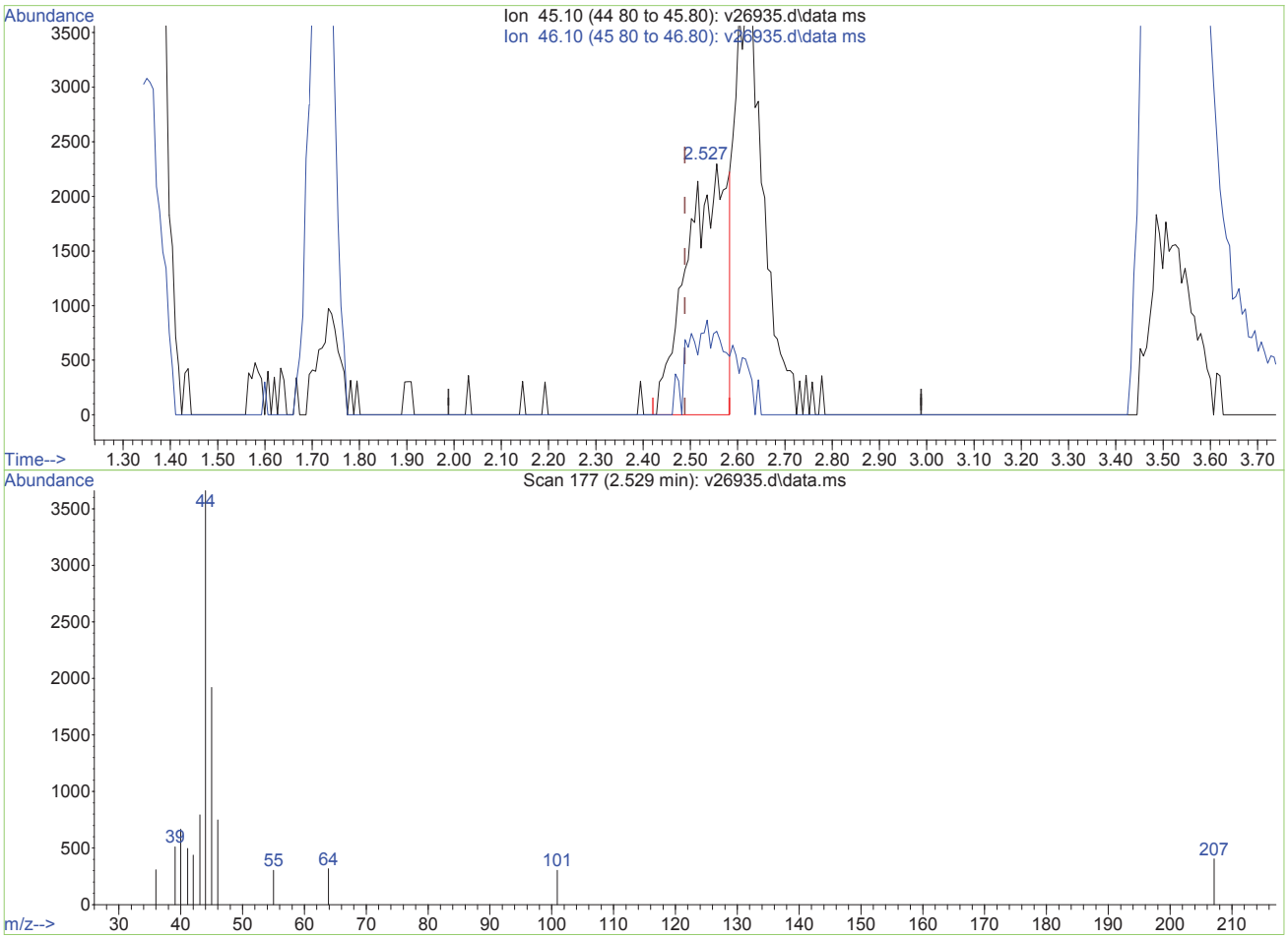
Data Path : O:\msv\1\databackup\v140107\
Data File : v26935.d
Acq On : 7 Jan 2014 1:49 pm
Operator : amym
Sample : ic1019-2
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 12 11:52:51 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Data Path : O:\msv\1\databackup\v140107\
Data File : v26935.d
Acq On : 7 Jan 2014 1:49 pm
Operator : amym
Sample : ic1019-2
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 12 11:49:55 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26935.d\data.ms

(2) Ethanol (p)

2.527min (+0.039) 585.36ug/L

response 13558

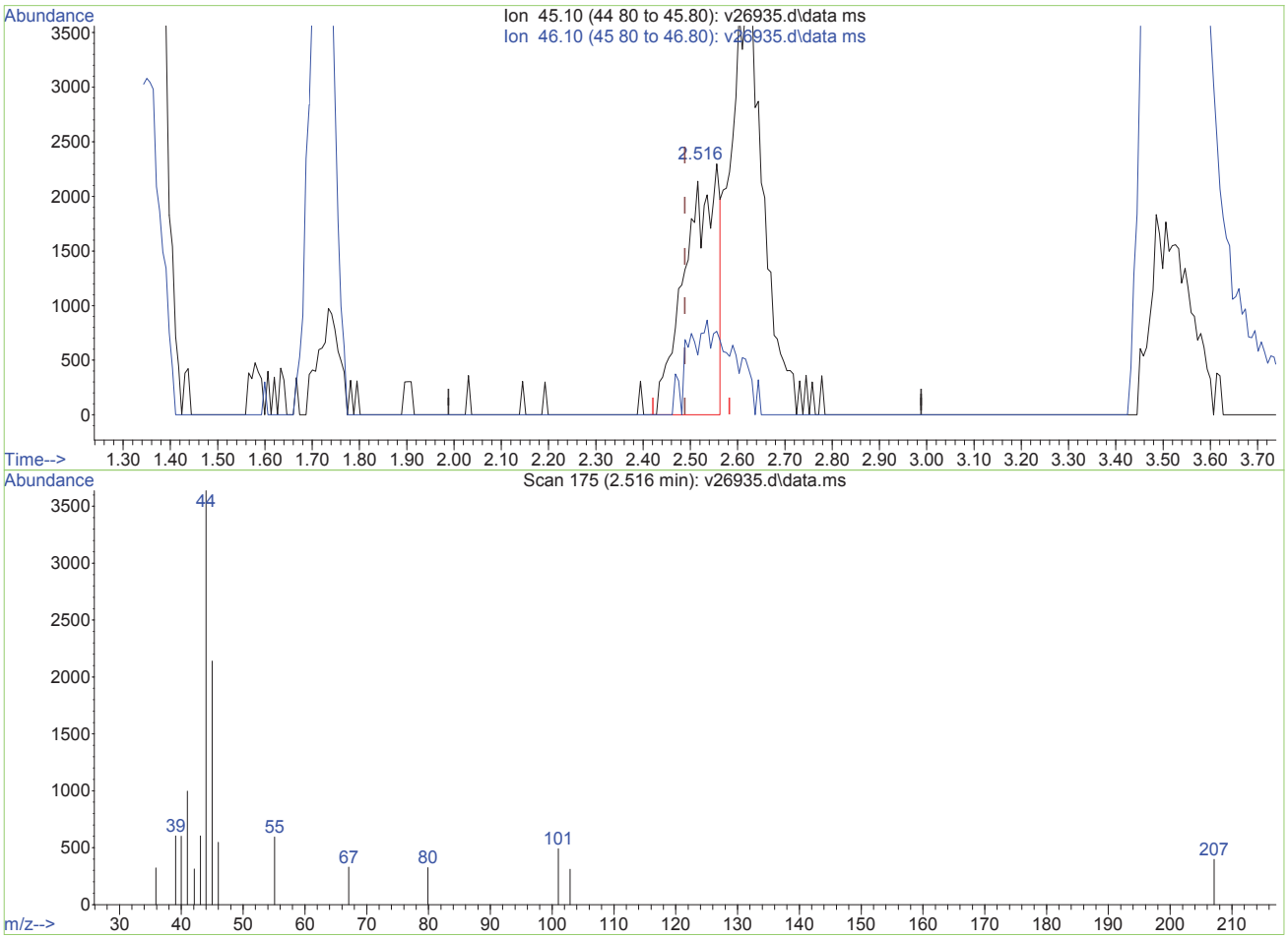
Ion	Exp%	Act%
45.10	100	100
46.10	114.80	43.04#
0.00	0.00	0.00
0.00	0.00	0.00

V26935.D edits: Ethanol

SGS ACCUTEST MC27745

Data Path : O:\msv\1\databackup\v140107\
Data File : v26935.d
Acq On : 7 Jan 2014 1:49 pm
Operator : amym
Sample : ic1019-2
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 12 11:49:55 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26935.d\data.ms

(2) Ethanol (p)

2.516min (+0.027) 474.44ug/L m

response 10989

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	53.11#
0.00	0.00	0.00
0.00	0.00	0.00

V26935.D edits: Ethanol

Data Path : O:\msv\1\databackup\v140107\
Data File : v26936.d
Acq On : 7 Jan 2014 2:16 pm
Operator : amym
Sample : ic1019-5
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

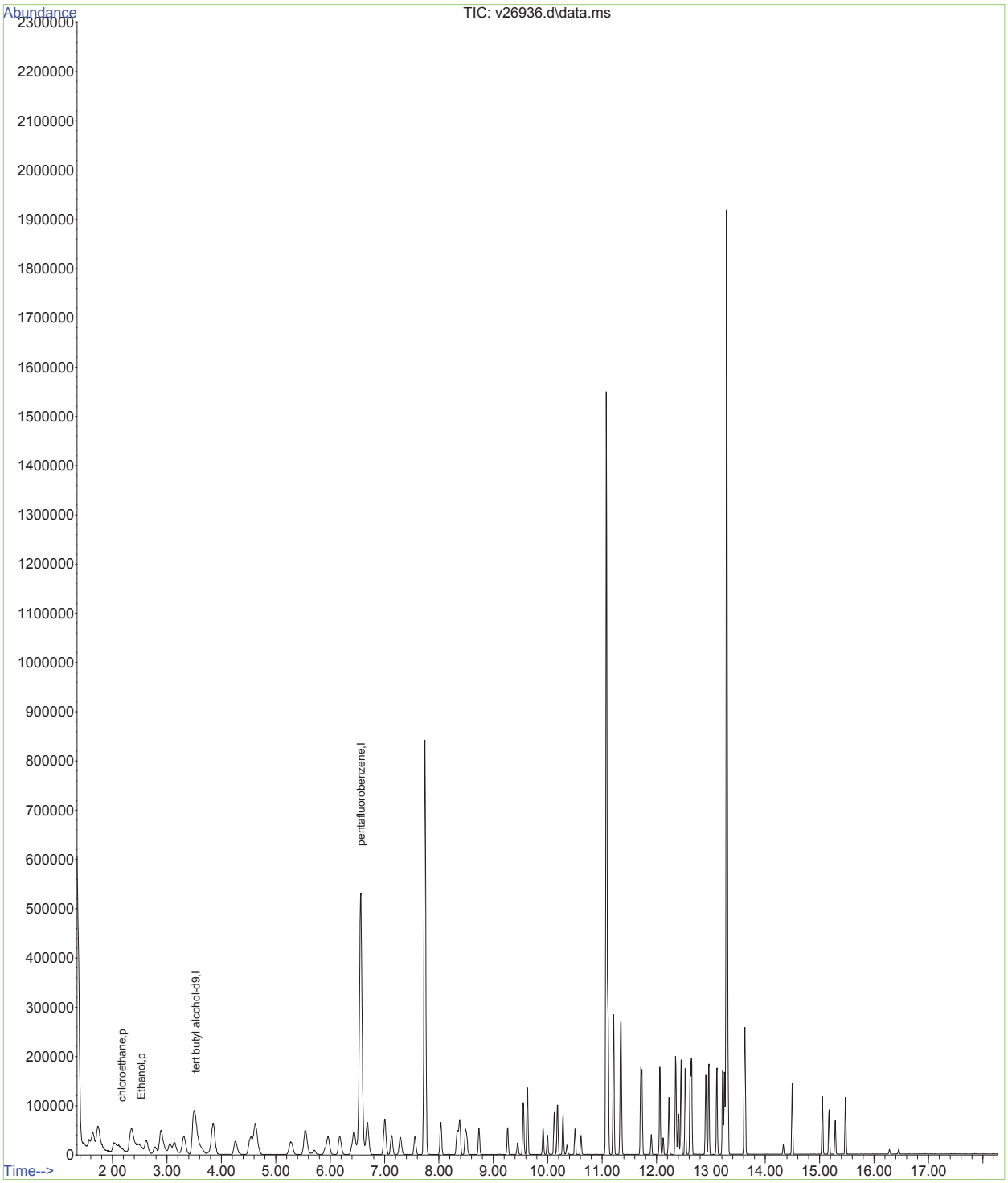
Quant Time: Oct 12 11:49:57 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.532	65	174193	500.00	ug/L	0.00
3) pentafluorobenzene	6.565	168	569450	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.523	45	24520	1003.38	ug/L	# 1
4) chloroethane	2.173	64	26754	5.77	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msv\1\databackup\v140107\
Data File : v26936.d
Acq On : 7 Jan 2014 2:16 pm
Operator : amym
Sample : ic1019-5
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 12 11:49:57 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26937.d
Acq On : 7 Jan 2014 2:42 pm
Operator : amym
Sample : ic1019-10
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 12 11:49:59 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

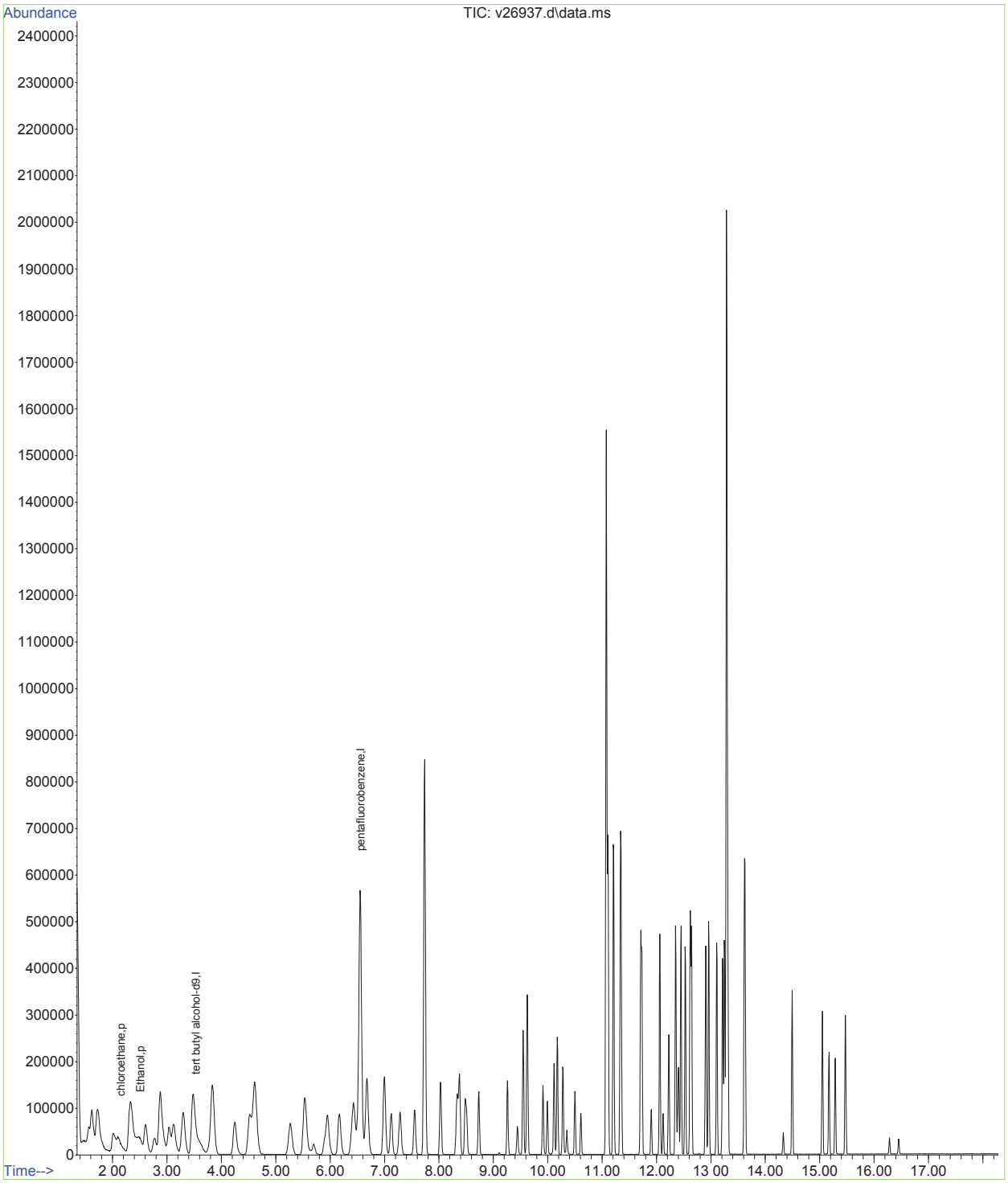
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.523	65	172384	500.00	ug/L	0.00
3) pentafluorobenzene	6.556	168	597997	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.509	45	48113	1989.48	ug/L	# 1
4) chloroethane	2.155	64	52409	10.77	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST MC27745

Data Path : O:\msv\1\databackup\v140107\
Data File : v26937.d
Acq On : 7 Jan 2014 2:42 pm
Operator : amym
Sample : ic1019-10
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 12 11:49:59 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Data Path : O:\msv\1\databackup\v140107\
Data File : v26938.d
Acq On : 7 Jan 2014 3:08 pm
Operator : amym
Sample : icc1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

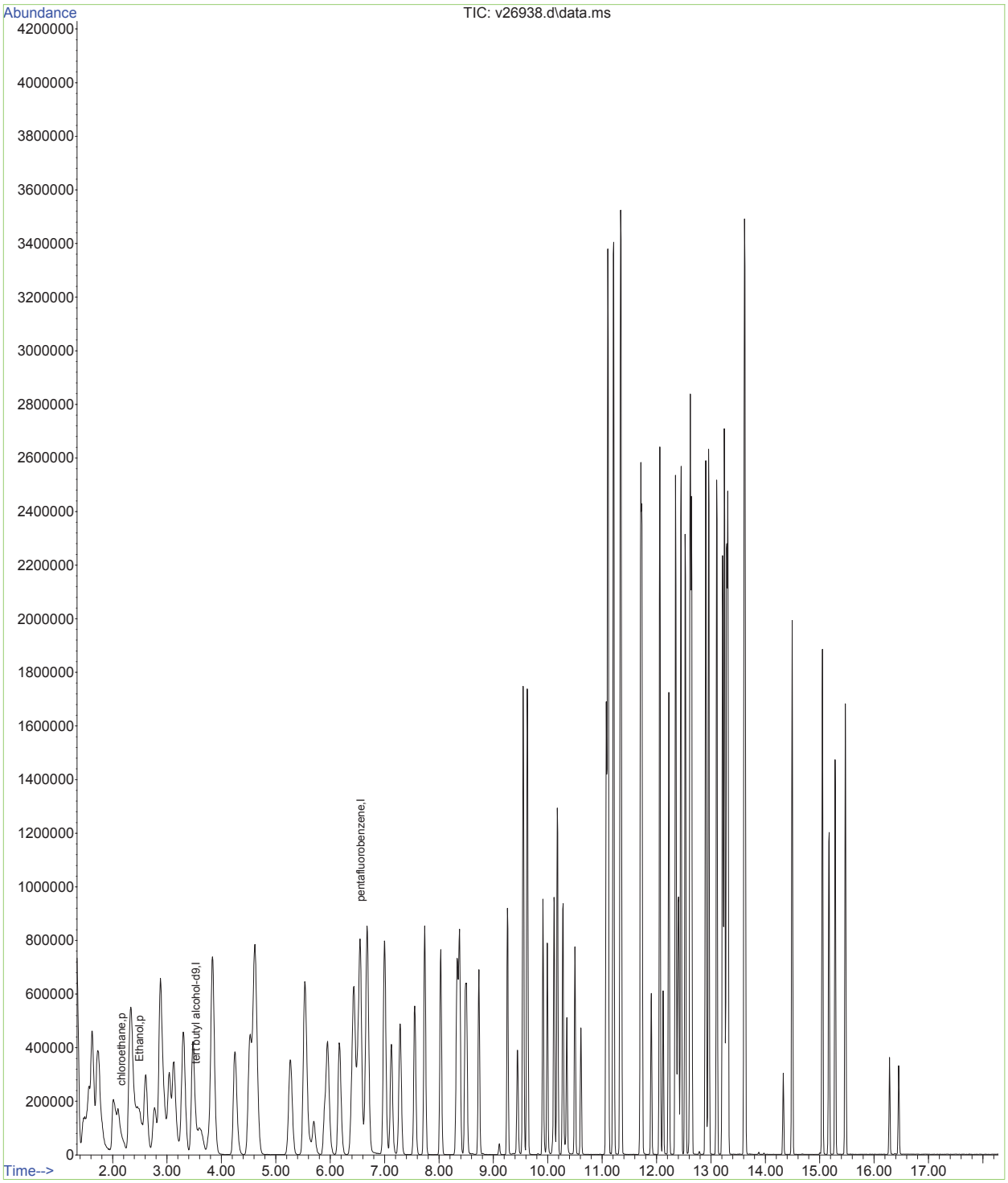
Quant Time: Oct 12 11:54:24 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.524	65	196490	500.00	ug/L	0.00
3) pentafluorobenzene	6.559	168	650576	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.489	45	137020m	4970.70	ug/L	
4) chloroethane	2.155	64	264750	50.00	ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msv\1\databackup\v140107\
Data File : v26938.d
Acq On : 7 Jan 2014 3:08 pm
Operator : amym
Sample : icc1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

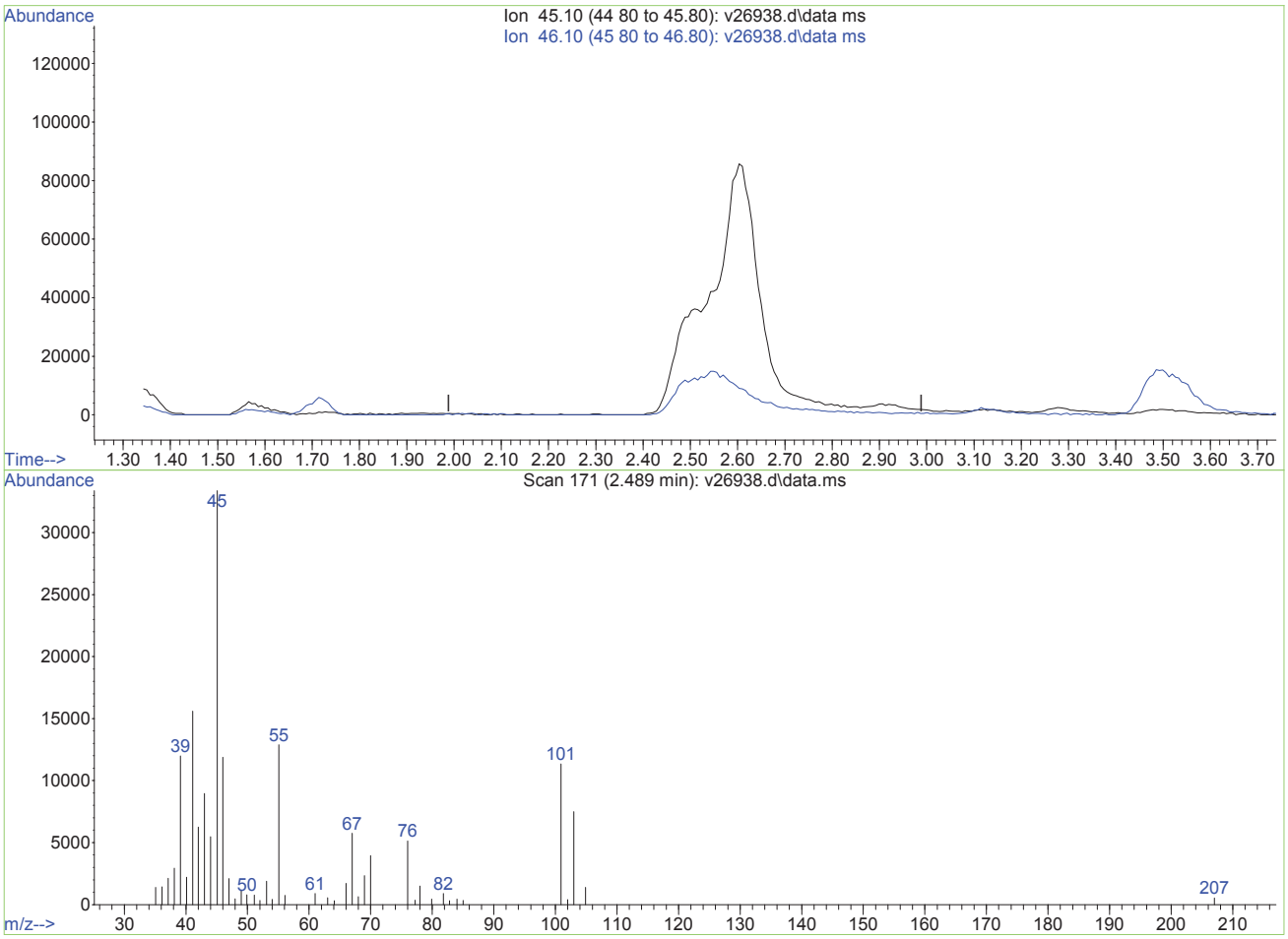
Quant Time: Oct 12 11:54:24 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26938.d
Acq On : 7 Jan 2014 3:08 pm
Operator : amym
Sample : icc1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 12 11:50:01 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26938.d\data.ms

(2) Ethanol (p)

2.489min (-2.489) 0.00ug/L

response 0

Ion	Exp%	Act%
45.10	100	0.00
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

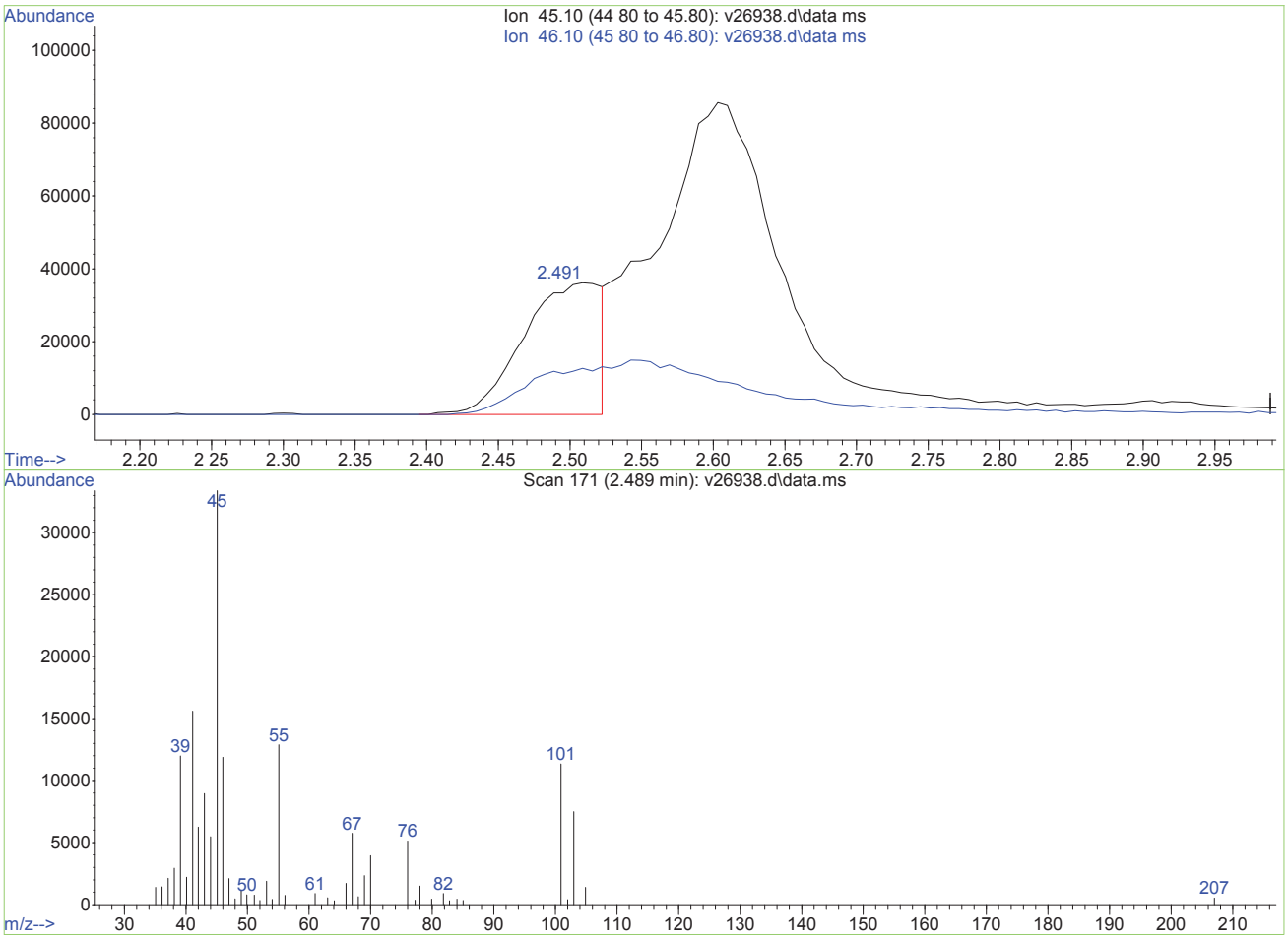
V26938.D edits: Ethanol

SGS ACCUTEST MC27745

Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26938.d
Acq On : 7 Jan 2014 3:08 pm
Operator : amym
Sample : icc1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 12 11:50:01 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26938.d\data.ms

(2) Ethanol (p)

2.489min (0.000) 4970.70ug/L m

response 137020

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26938.D edits: Ethanol

SGS ACCUTEST
MC27745

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26939.d
Acq On : 7 Jan 2014 3:35 pm
Operator : amym
Sample : ic1019-100
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 12 11:55:09 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

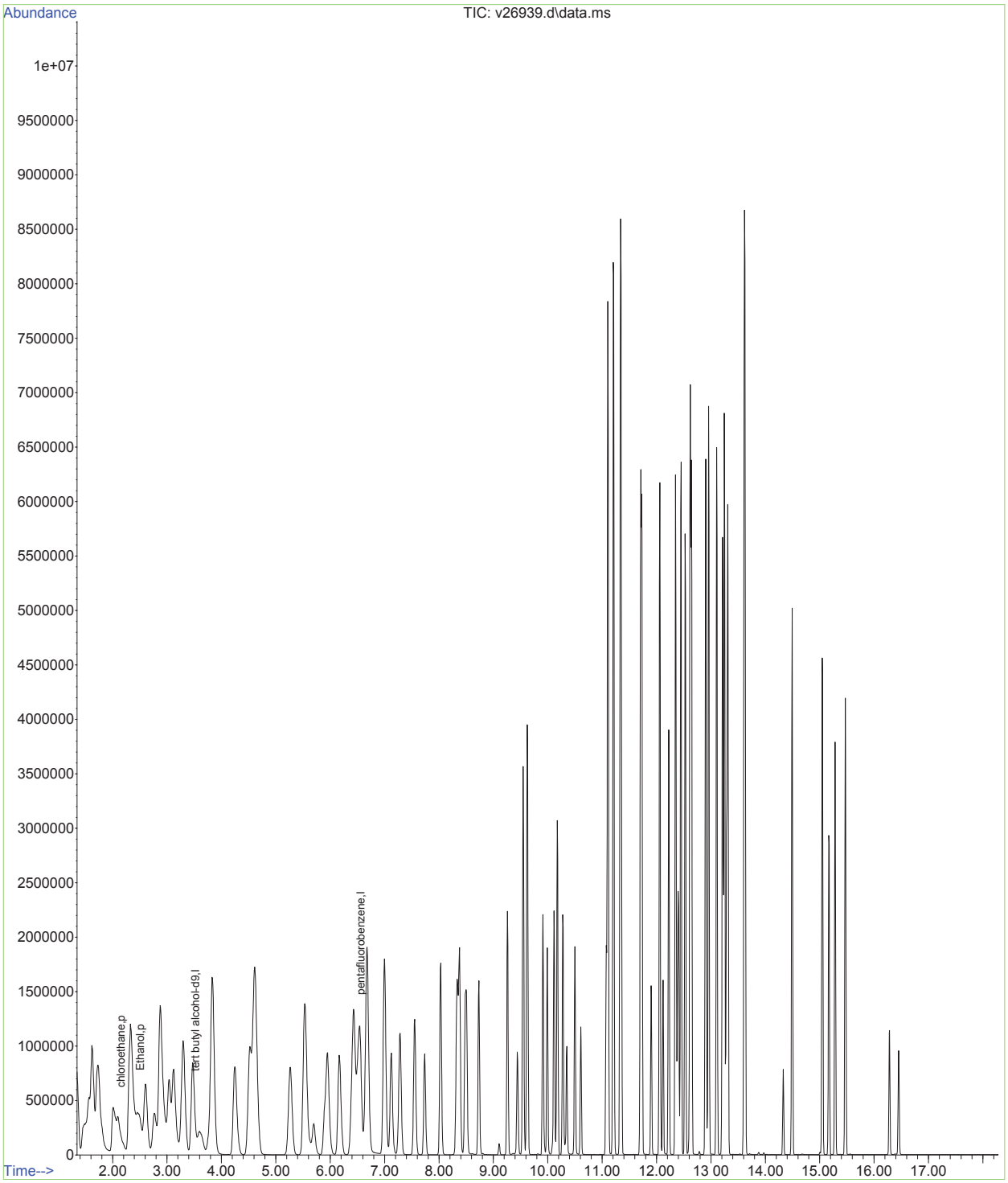
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.521	65	218199	500.00	ug/L	0.00
3) pentafluorobenzene	6.558	168	709327	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.502	45	415447m	13571.79	ug/L	
4) chloroethane	2.151	64	566729	98.17	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST MC27745

Data Path : O:\msv\1\databackup\v140107\
Data File : v26939.d
Acq On : 7 Jan 2014 3:35 pm
Operator : amym
Sample : ic1019-100
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

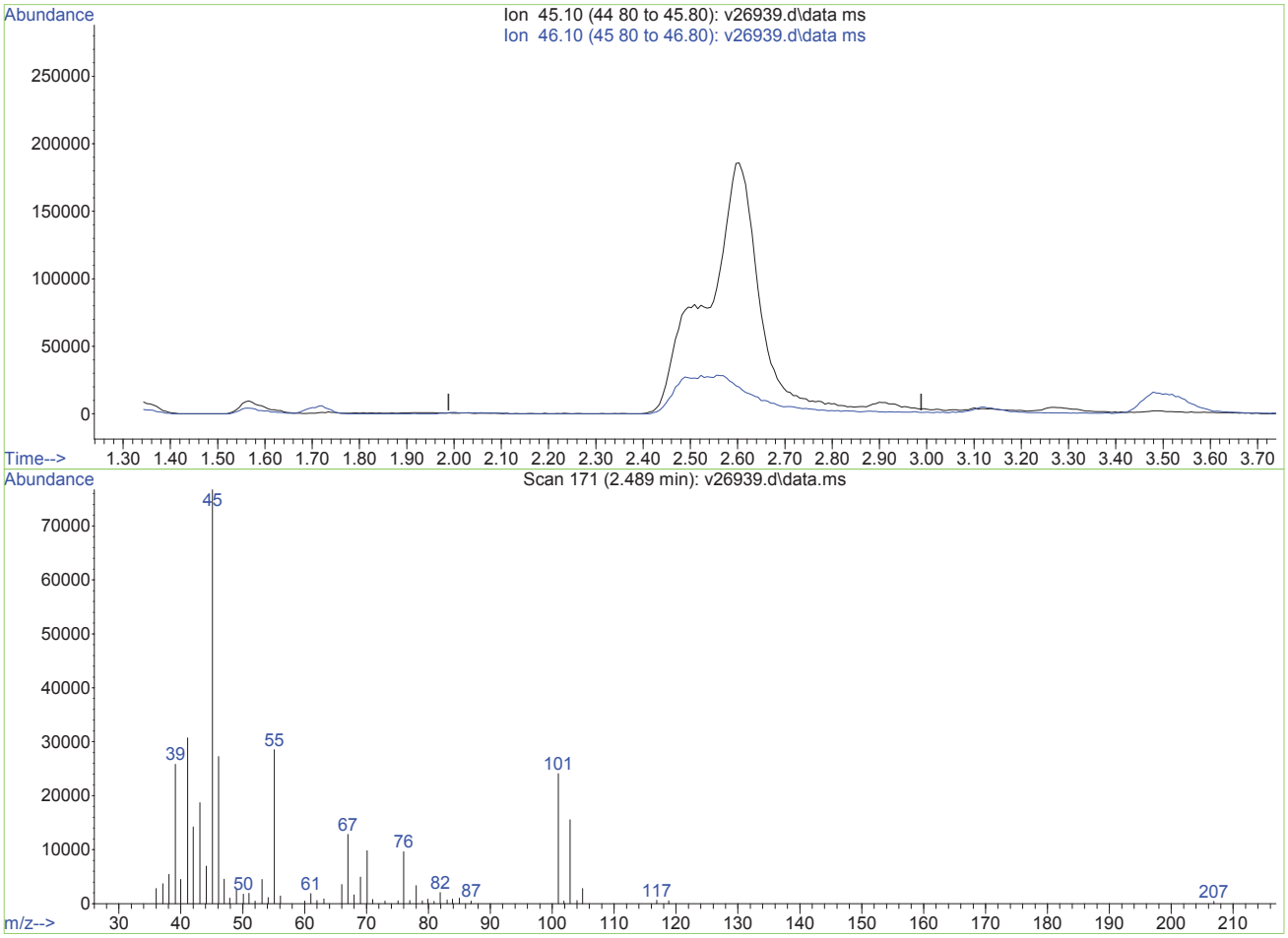
Quant Time: Oct 12 11:55:09 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26939.d
Acq On : 7 Jan 2014 3:35 pm
Operator : amym
Sample : ic1019-100
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 12 11:50:03 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26939.d\data.ms

(2) Ethanol (p)

2.489min (-2.489) 0.00ug/L

response 0

Ion	Exp%	Act%
45.10	100	0.00
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

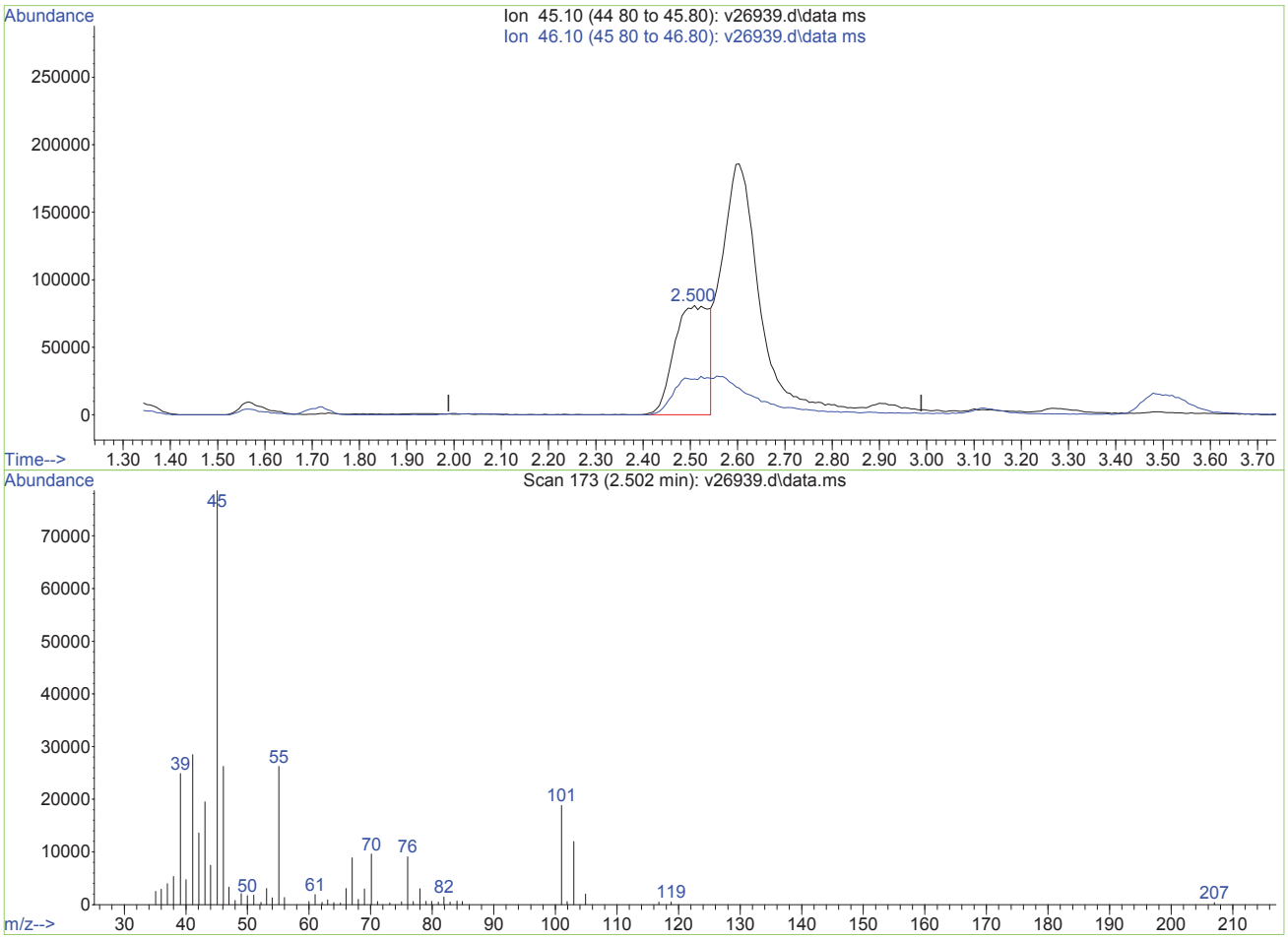
V26939.D edits: Ethanol

SGS ACCUTEST MC27745

Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26939.d
Acq On : 7 Jan 2014 3:35 pm
Operator : amym
Sample : ic1019-100
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 12 11:50:03 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26939.d\data.ms

(2) Ethanol (p)

2.502min (+0.013) 13571.79ug/L m

response 415447

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26939.D edits: Ethanol

SGS ACCUTEST MC27745

Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

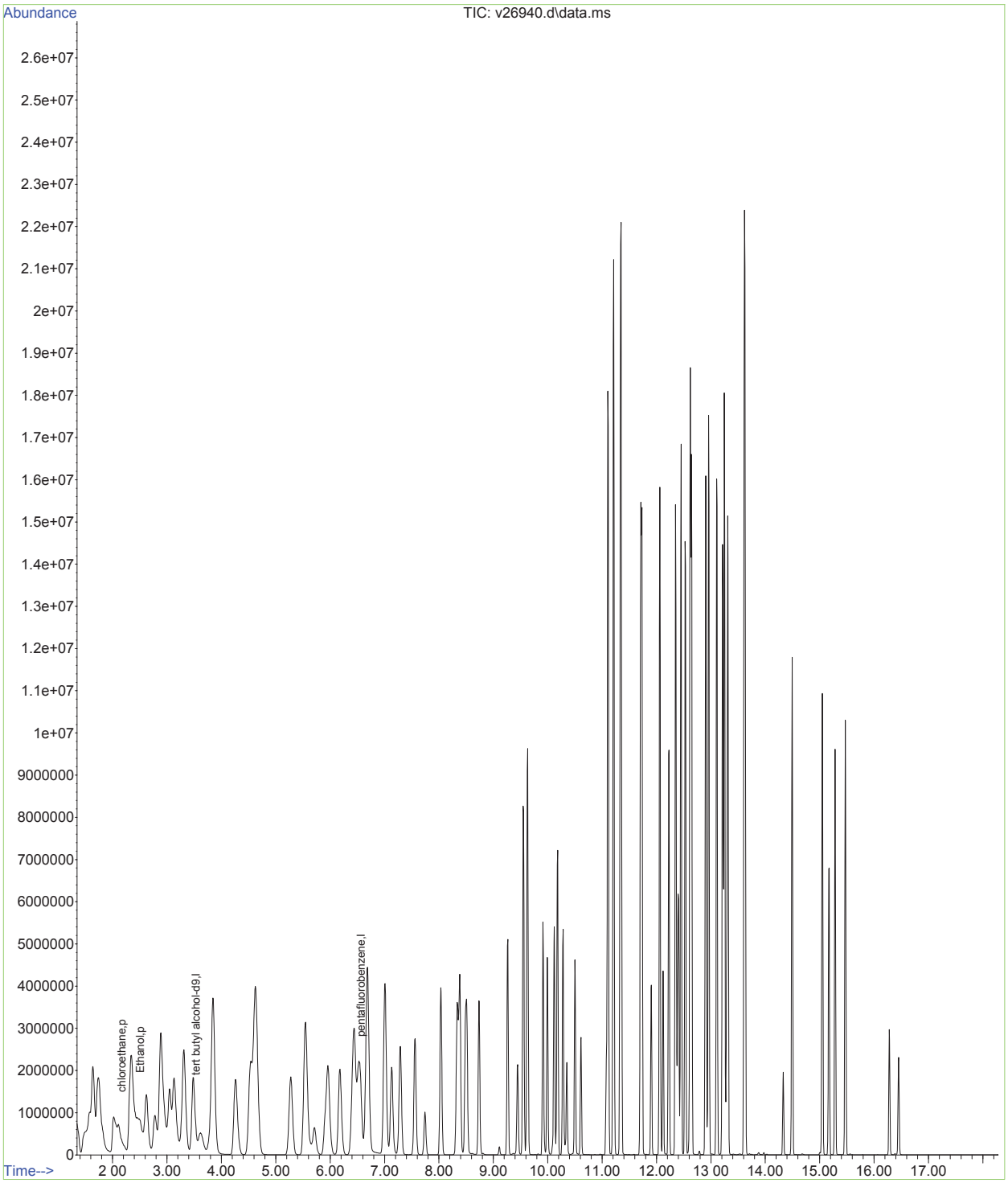
Quant Time: Oct 12 11:56:38 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) tert butyl alcohol-d9	3.526	65	248311m	500.00 ug/L	0.00
3) pentafluorobenzene	6.565	168	827373	50.00 ug/L	0.00
Target Compounds					Qvalue
2) Ethanol	2.502	45	690608m	19824.86 ug/L	
4) chloroethane	2.165	64	1217177m	180.75 ug/L	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

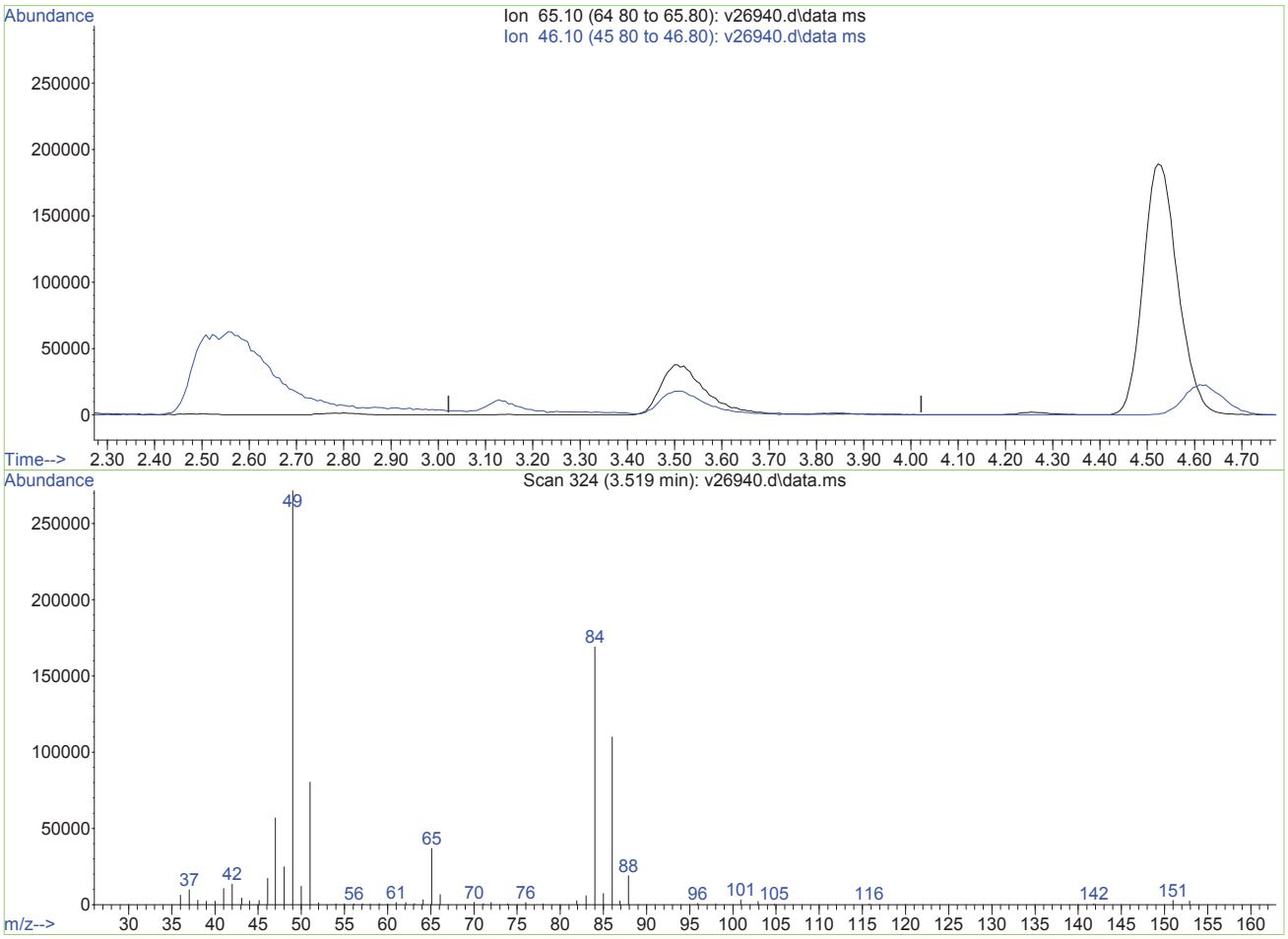
Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:56:38 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:50:05 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26940.d\data.ms

(1) tert butyl alcohol-d9 (I)

3.522min (-3.522) 0.00ug/L

response 0

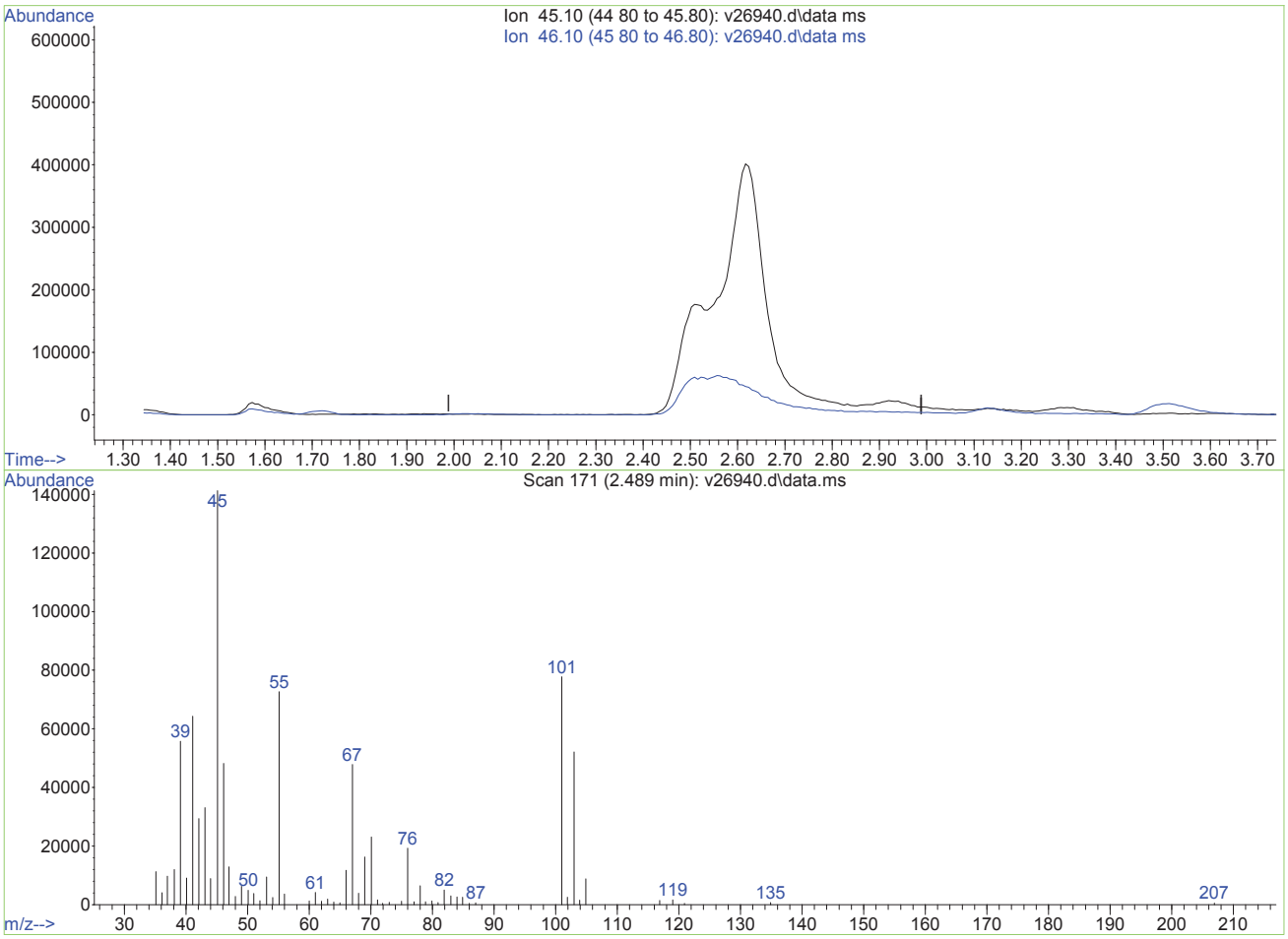
Ion	Exp%	Act%
65.10	100	0.00
46.10	54.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26940.D edits: tert butyl alcohol-d9

SGS ACCUTEST MC27745

Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:50:05 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26940.d\data.ms

(2) Ethanol (p)

2.489min (-2.489) 0.00ug/L

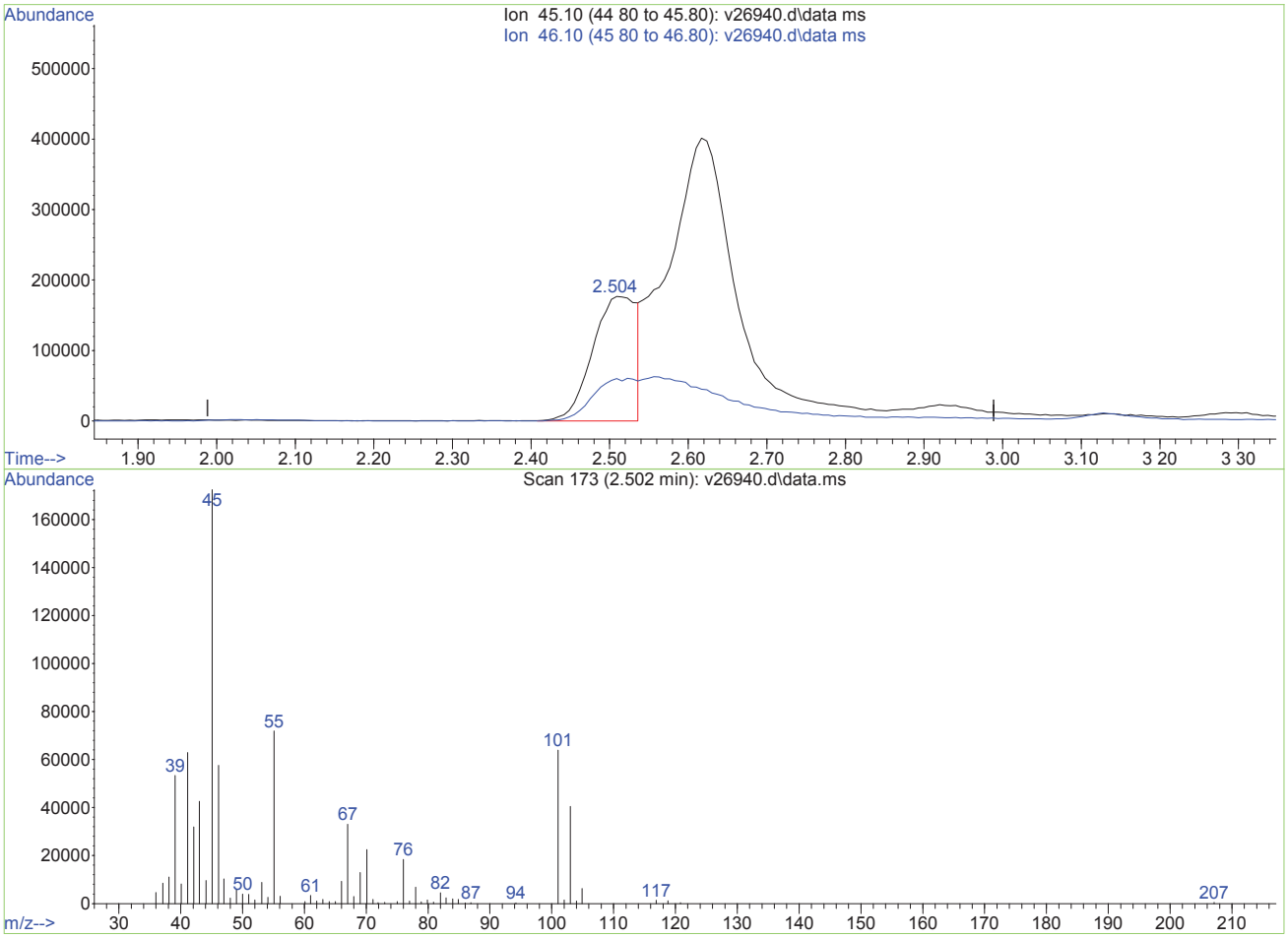
response 0

Ion	Exp%	Act%
45.10	100	0.00
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26940.D edits: Ethanol

Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:50:05 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26940.d\data.ms

(2) Ethanol (p)

2.502min (+0.014) 19824.86ug/L m

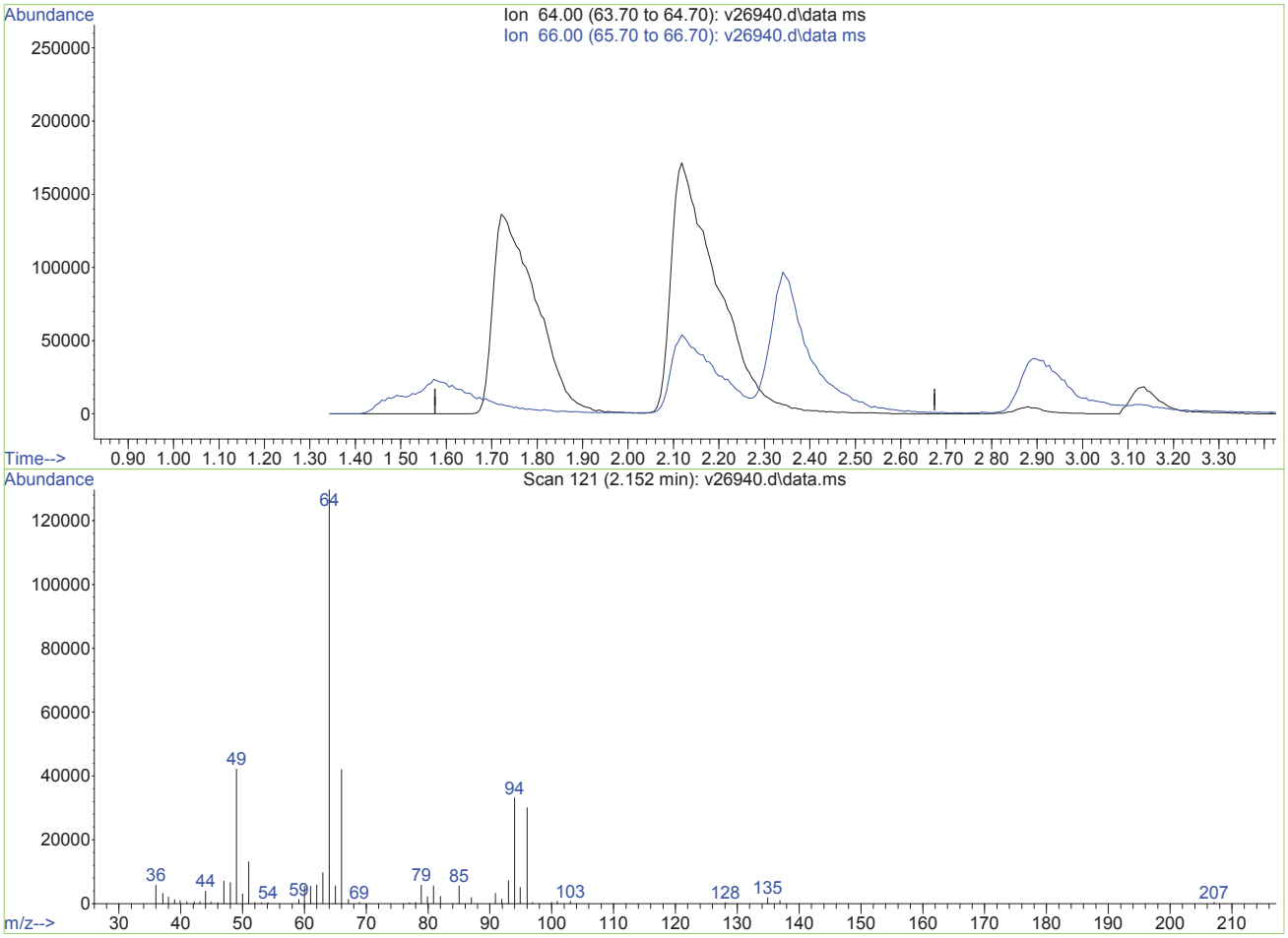
response 690608

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26940.D edits: Ethanol

Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:50:05 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26940.d\data.ms

(4) chloroethane (p)

2.155min (-2.155) 0.00ug/L

response 0

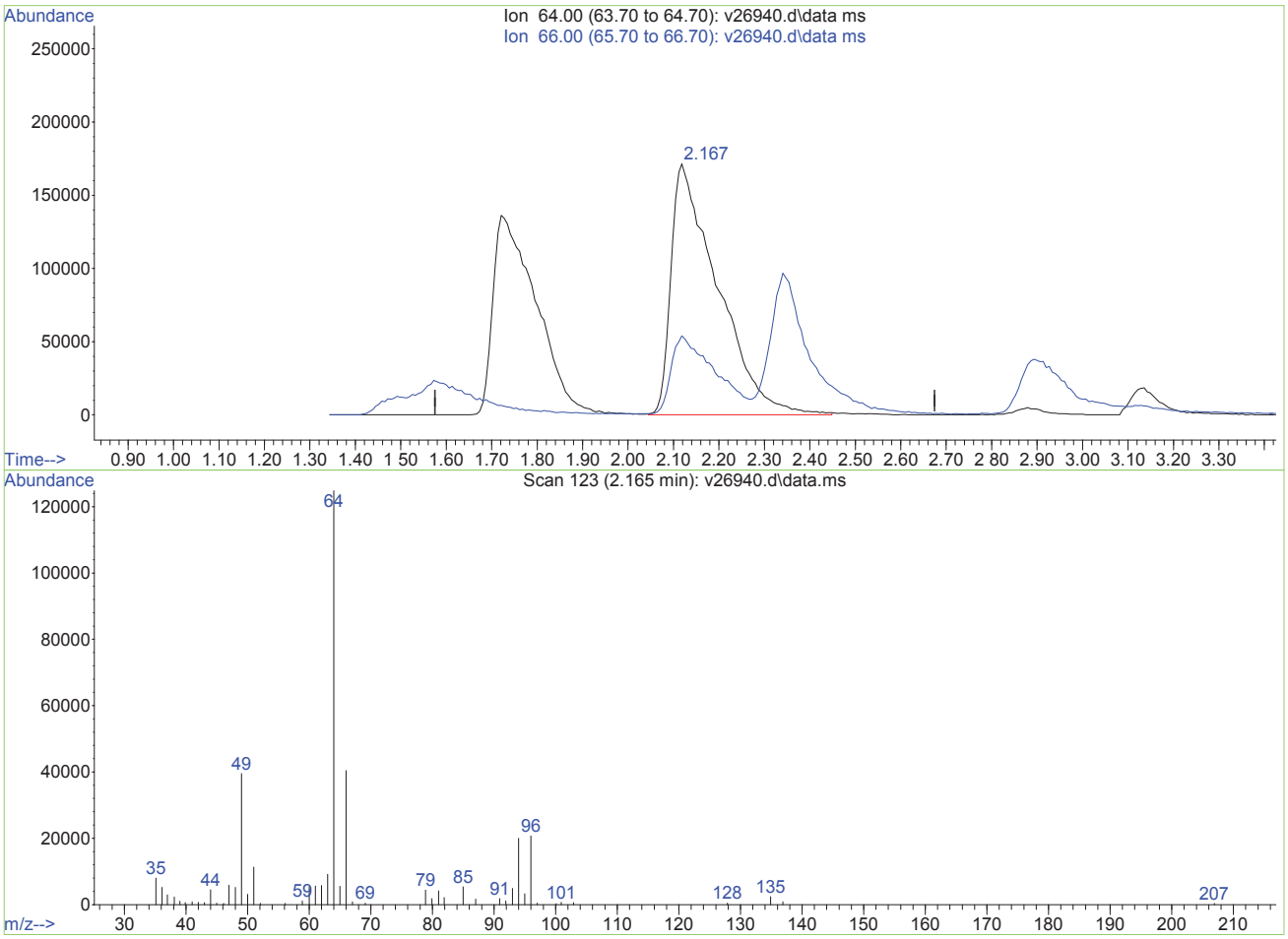
Ion	Exp%	Act%
64.00	100	0.00
66.00	34.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26940.D edits: chloroethane

Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:50:05 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26940.d\data.ms

(4) chloroethane (p)

2.165min (+0.010) 180.75ug/L m

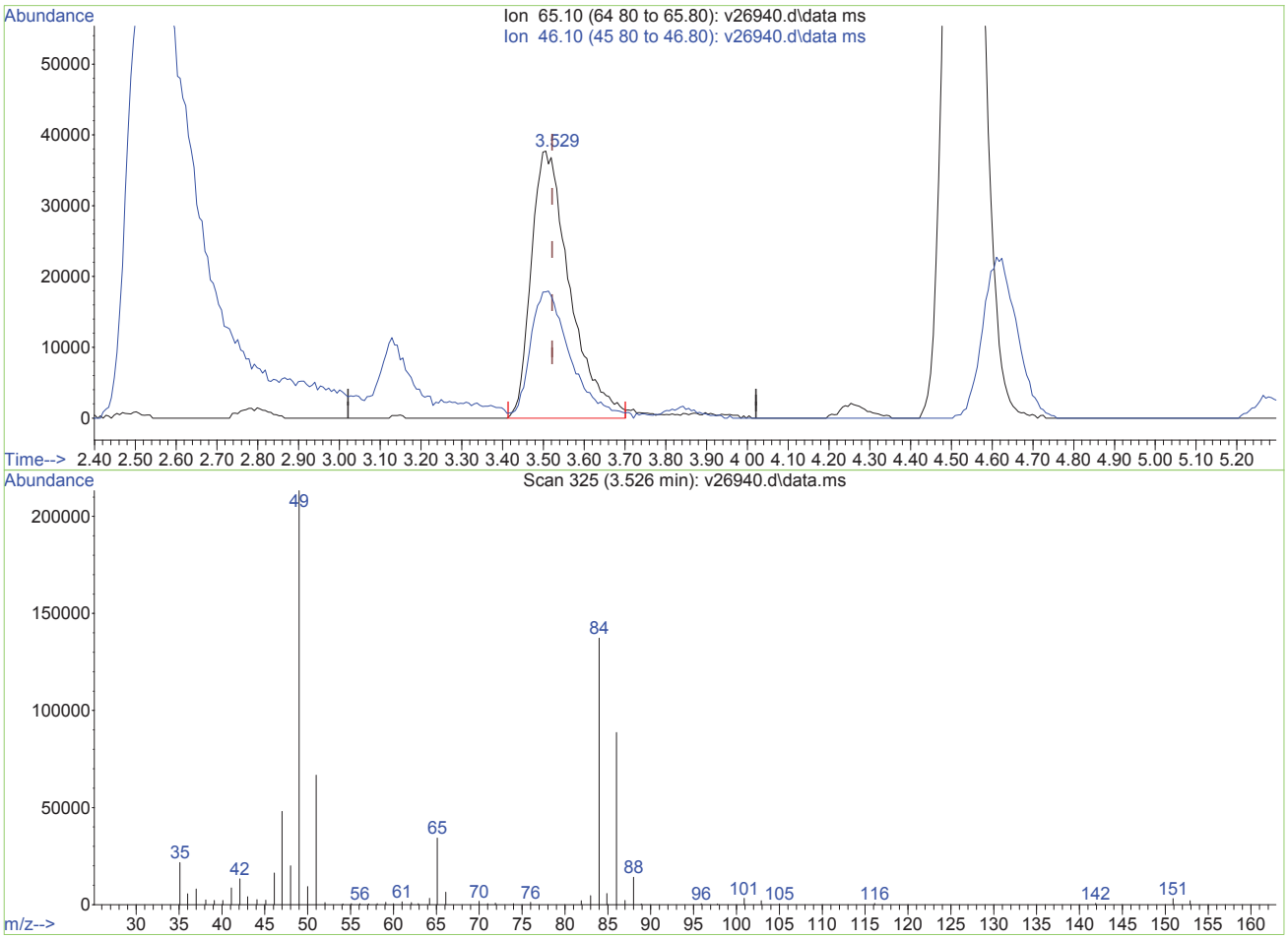
response 1217177

Ion	Exp%	Act%
64.00	100	100
66.00	34.60	32.37
0.00	0.00	0.00
0.00	0.00	0.00

V26940.D edits: chloroethane

Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:56:38 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26940.d\data.ms

(1) tert butyl alcohol-d9 (I)

3.526min (+0.004) 500.00ug/L m

response 248311

Ion	Exp%	Act%
65.10	100	100
46.10	54.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26940.D edits: tert butyl alcohol-d9

Data Path : O:\msv\1\databackup\v140107\
Data File : v26942.d
Acq On : 7 Jan 2014 5:47 pm
Operator : amym
Sample : ic1019-400
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 12 11:57:12 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

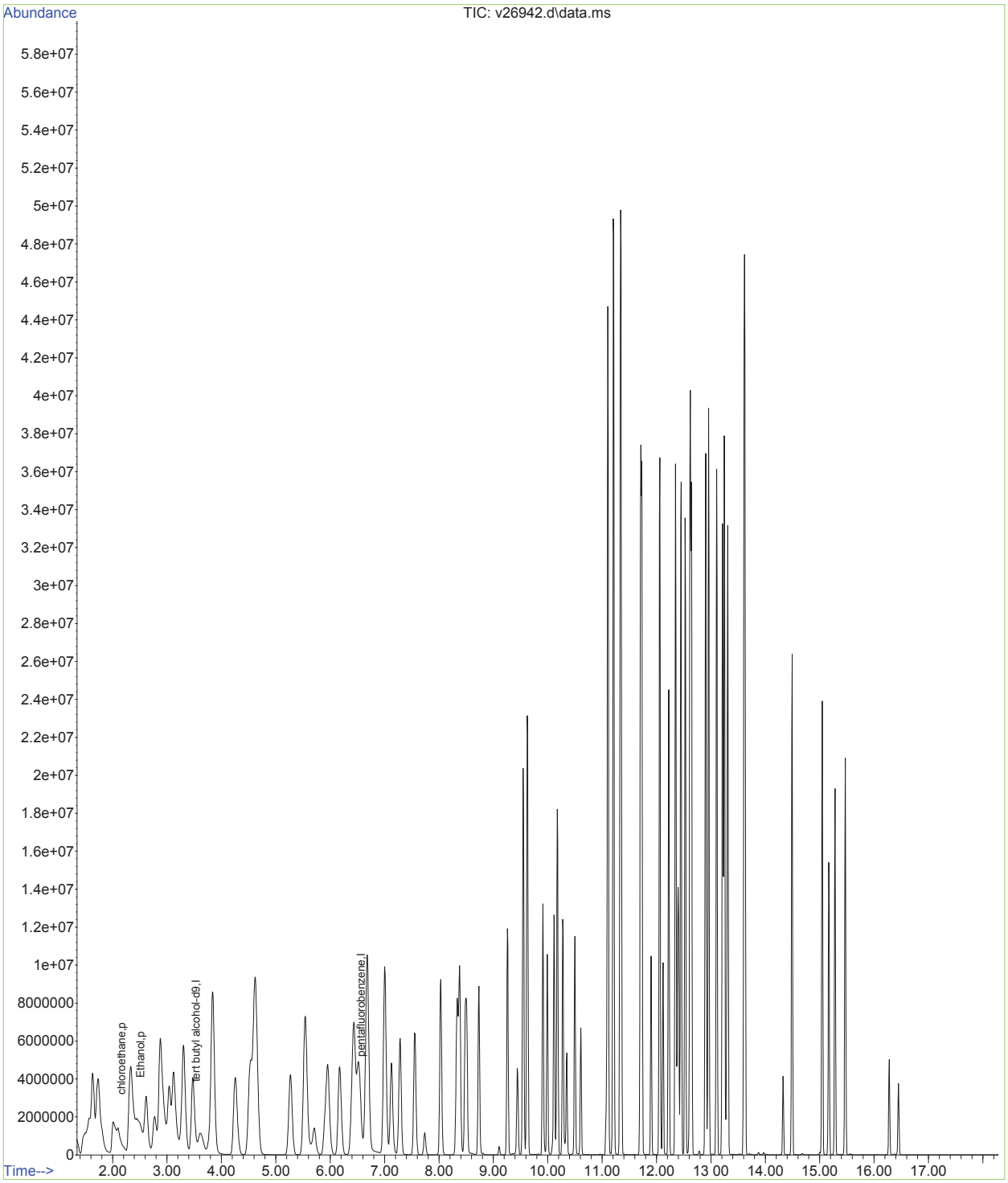
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.528	65	280929	500.00	ug/L	0.00
3) pentafluorobenzene	6.561	168	994052	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.509	45	1732790m	43966.69	ug/L	
4) chloroethane	2.160	64	2471921	305.53	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26942.d
Acq On : 7 Jan 2014 5:47 pm
Operator : amym
Sample : ic1019-400
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 12 11:57:12 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

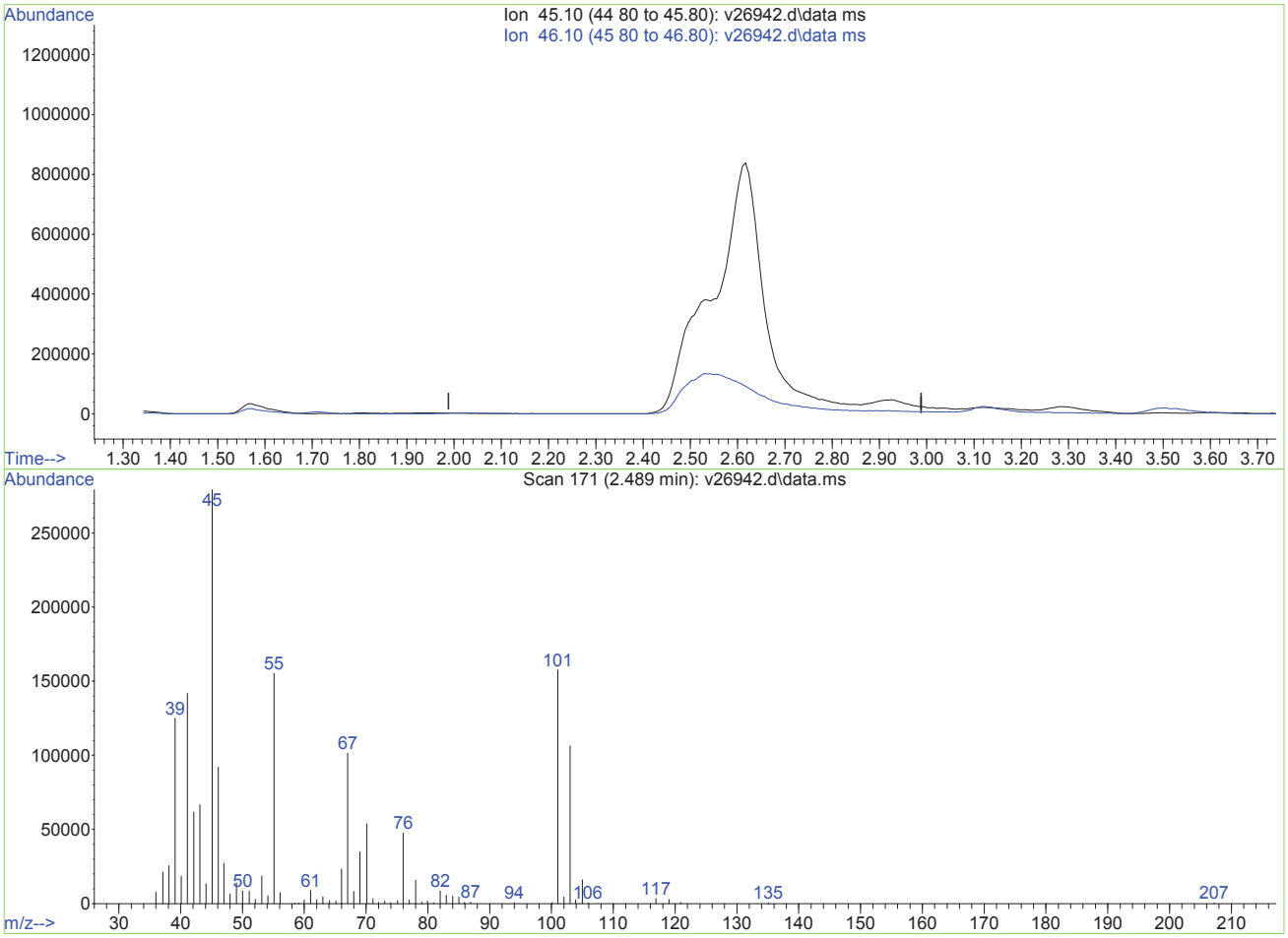


SGS ACCUTEST
MC27745

Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26942.d
Acq On : 7 Jan 2014 5:47 pm
Operator : amym
Sample : ic1019-400
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 12 11:50:07 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26942.d\data.ms

(2) Ethanol (p)

2.489min (-2.489) 0.00ug/L

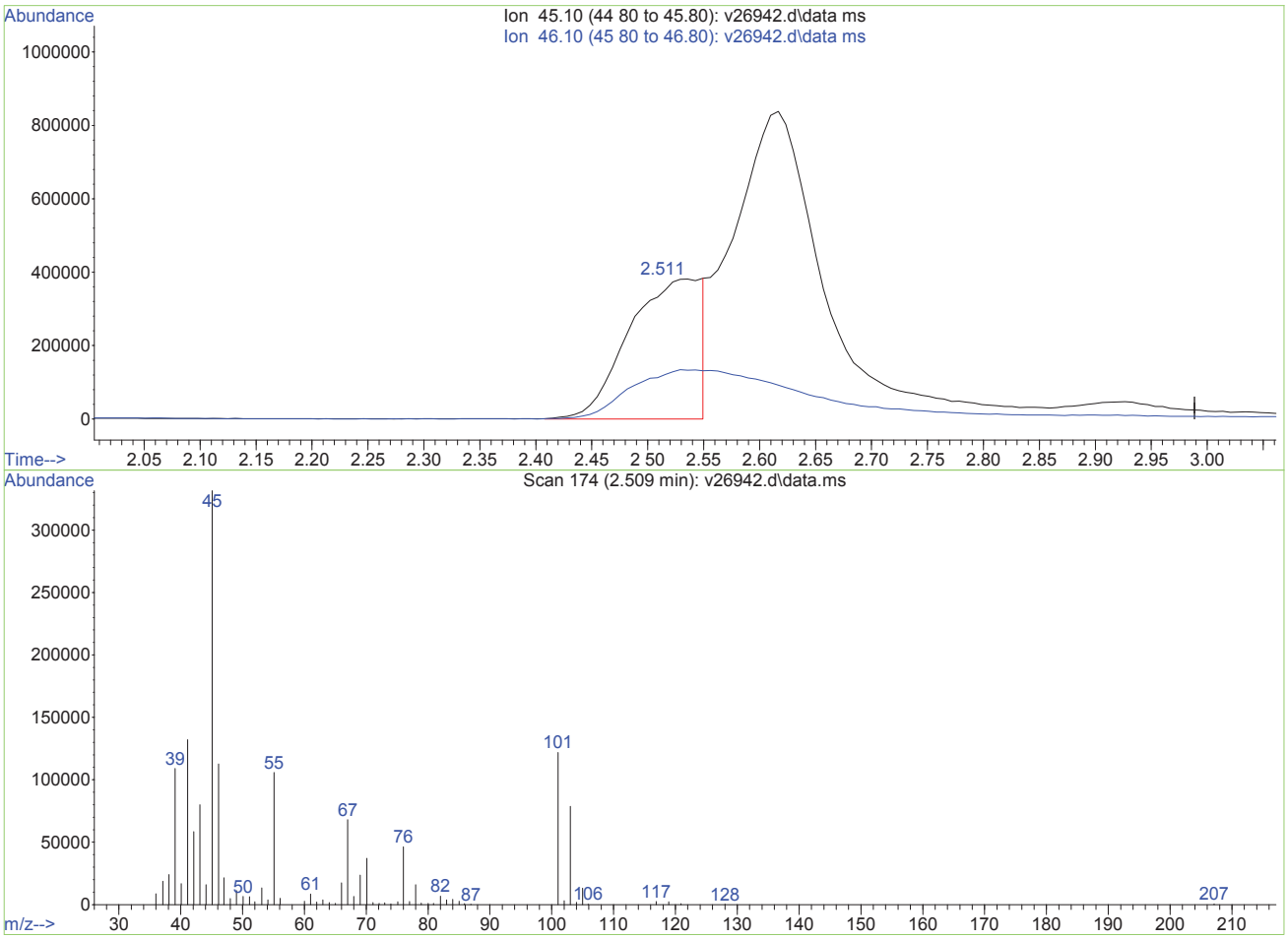
response 0

Ion	Exp%	Act%
45.10	100	0.00
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26942.D edits: Ethanol

Data Path : O:\msv\1\databackup\v140107\
Data File : v26942.d
Acq On : 7 Jan 2014 5:47 pm
Operator : amym
Sample : ic1019-400
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 12 11:50:07 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26942.d\data.ms

(2) Ethanol (p)

2.509min (+0.020) 43966.69ug/L m

response 1732790

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26942.D edits: Ethanol

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26944.d
Acq On : 7 Jan 2014 7:05 pm
Operator : amym
Sample : icv1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 12 12:04:13 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

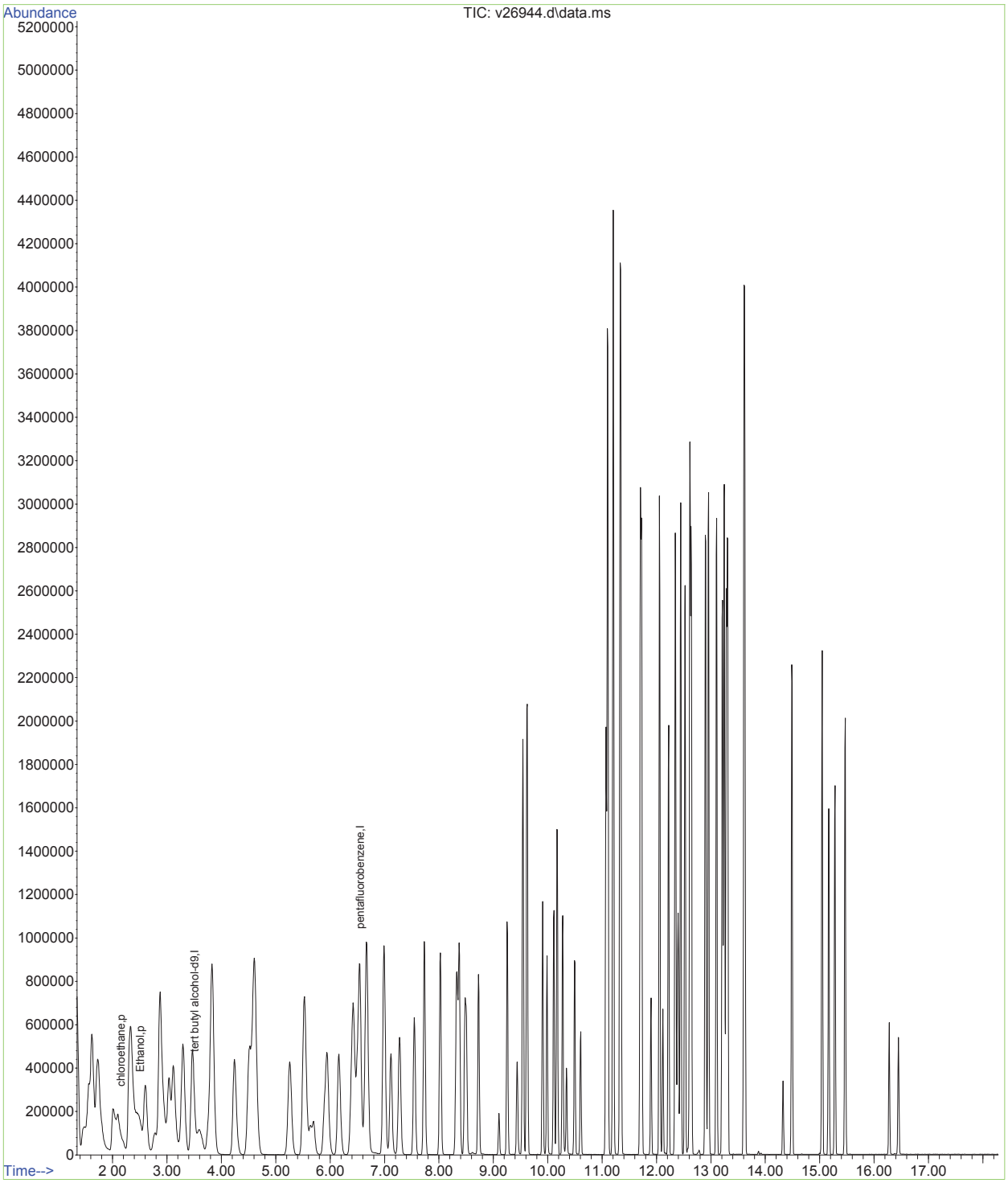
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.508	65	215524	500.00	ug/L	-0.01
3) pentafluorobenzene	6.550	168	735695	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.502	45	219095m	6281.66	ug/L	
4) chloroethane	2.149	64	314843	55.64	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST MC27745

Data Path : O:\msv\1\databackup\v140107\
Data File : v26944.d
Acq On : 7 Jan 2014 7:05 pm
Operator : amym
Sample : icv1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 12 12:04:13 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

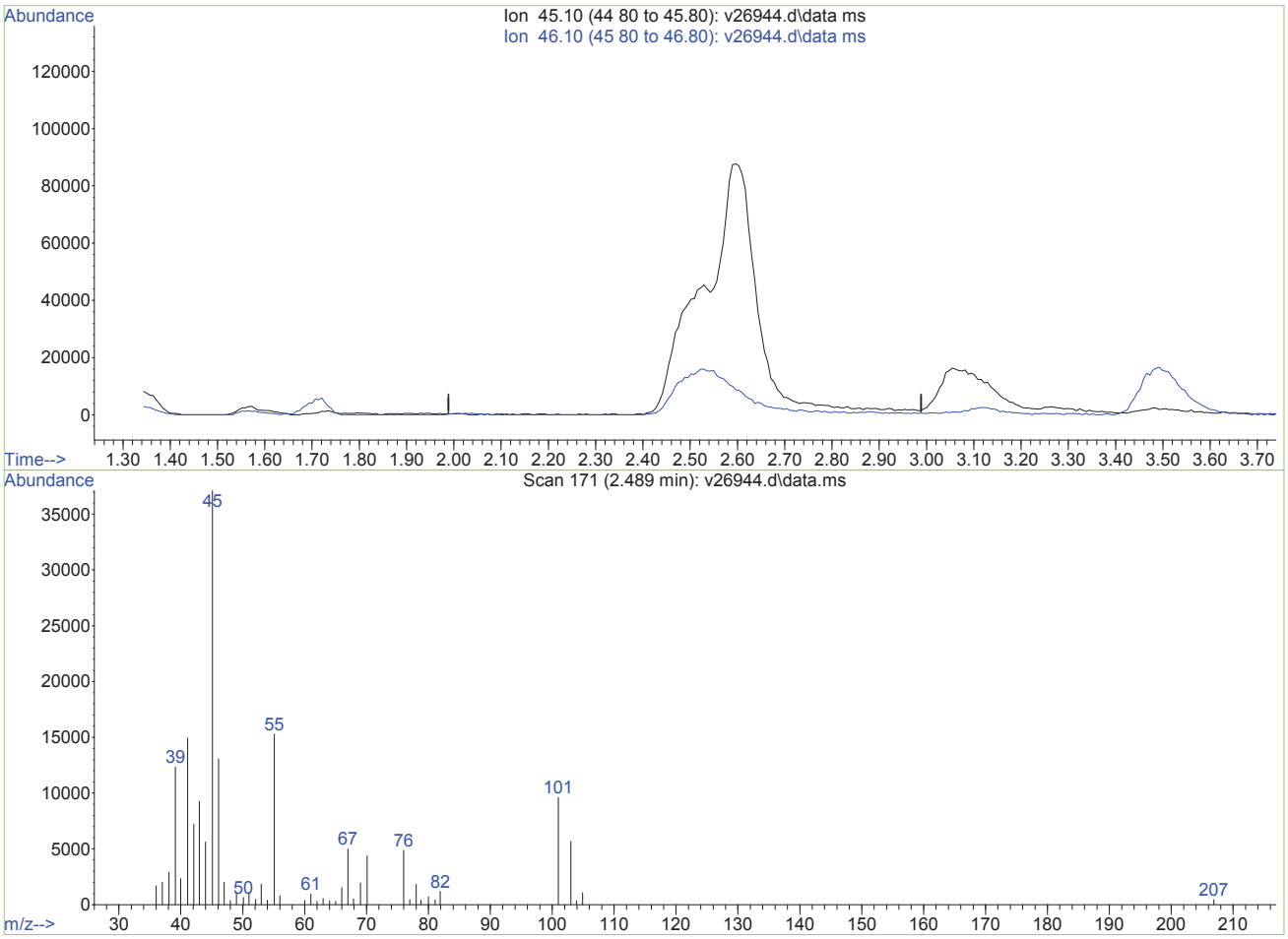


SGS ACCUTEST MC27745

Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26944.d
Acq On : 7 Jan 2014 7:05 pm
Operator : amym
Sample : icv1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 12 12:03:55 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



TIC: v26944.d\data.ms

(2) Ethanol (p)

2.489min (-2.489) 0.00ug/L

response 0

Ion	Exp%	Act%
45.10	100	0.00
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

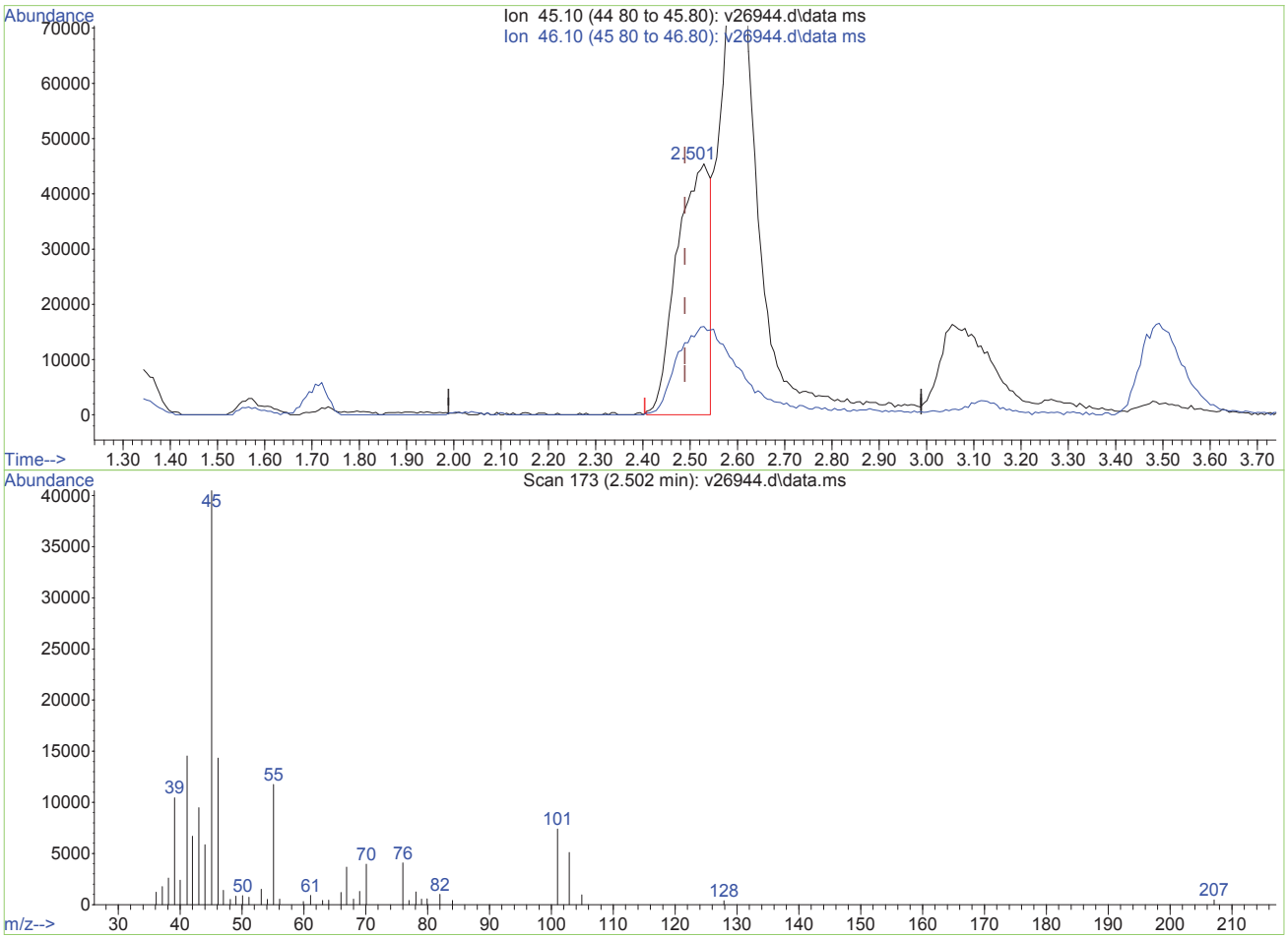
V26944.D edits: Ethanol

SGS ACCUTEST MC27745

Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26944.d
Acq On : 7 Jan 2014 7:05 pm
Operator : amym
Sample : icv1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 12 12:03:55 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



TIC: v26944.d\data.ms

(2) Ethanol (p)

2.502min (+0.013) 6281.66ug/L m

response 219095

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26944.D edits: Ethanol

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140122\
Data File : v27246.d
Acq On : 22 Jan 2014 8:45 am
Operator : amym
Sample : cc1019-50
Misc : MS30995,MSV1029,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 17 18:28:38 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

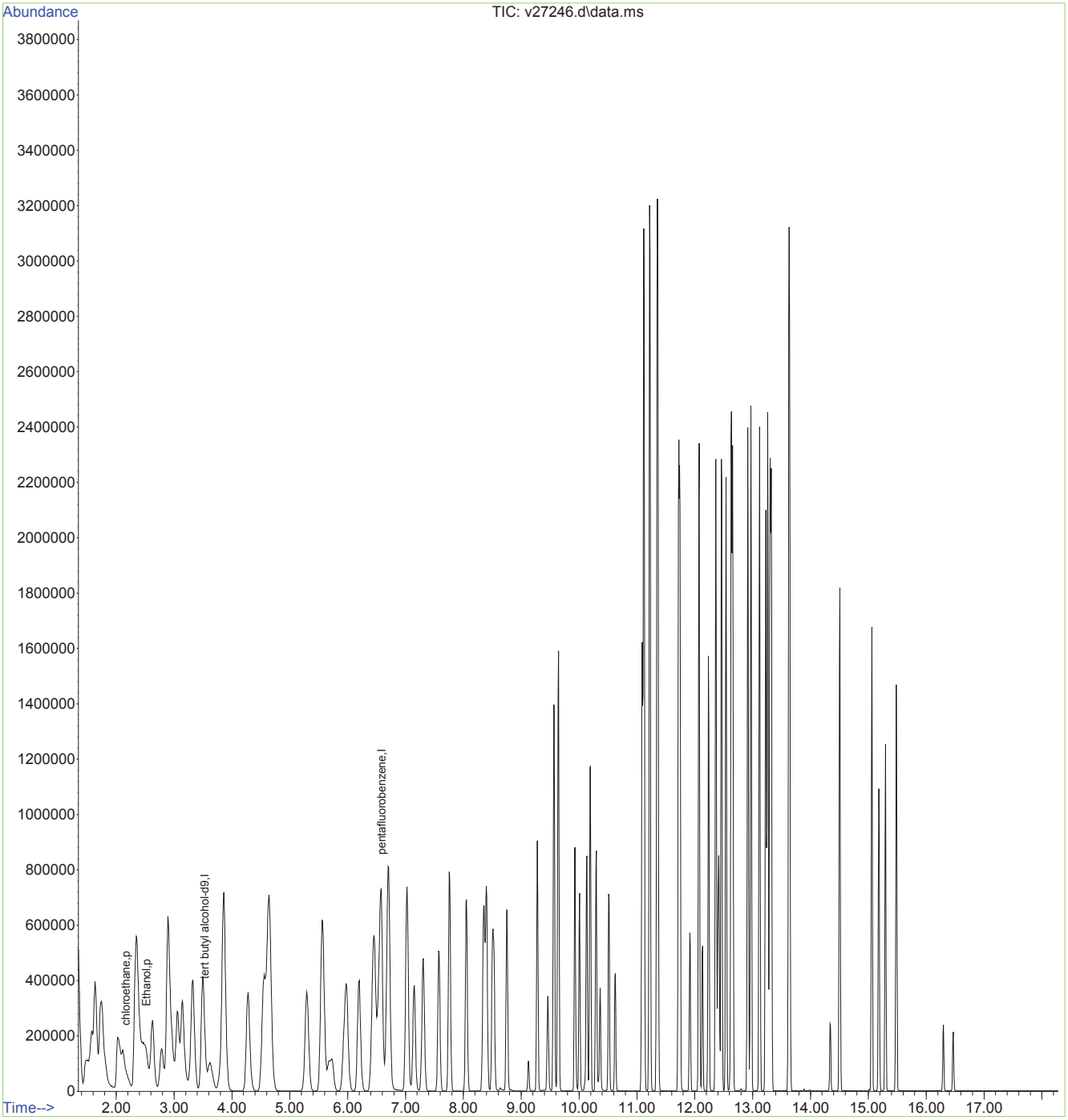
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.526	65	180058	500.00	ug/L	0.00
3) pentafluorobenzene	6.583	168	605724	50.00	ug/L	0.02
Target Compounds						Qvalue
2) Ethanol	2.520	45	240774	8414.09	ug/L	# 1
4) chloroethane	2.167	64	235878	50.55	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140122\
Data File : v27246.d
Acq On : 22 Jan 2014 8:45 am
Operator : amym
Sample : cc1019-50
Misc : MS30995,MSV1029,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 17 18:28:38 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



SGS ACCUTEST
MC27745

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140122\
Data File : v27253.d
Acq On : 22 Jan 2014 11:51 am
Operator : amym
Sample : mc27745-8
Misc : MS31004,MSV1029,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 17 18:32:20 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.543	65	148834	500.00	ug/L	0.02
3) pentafluorobenzene	6.594	168	431598	50.00	ug/L	0.04

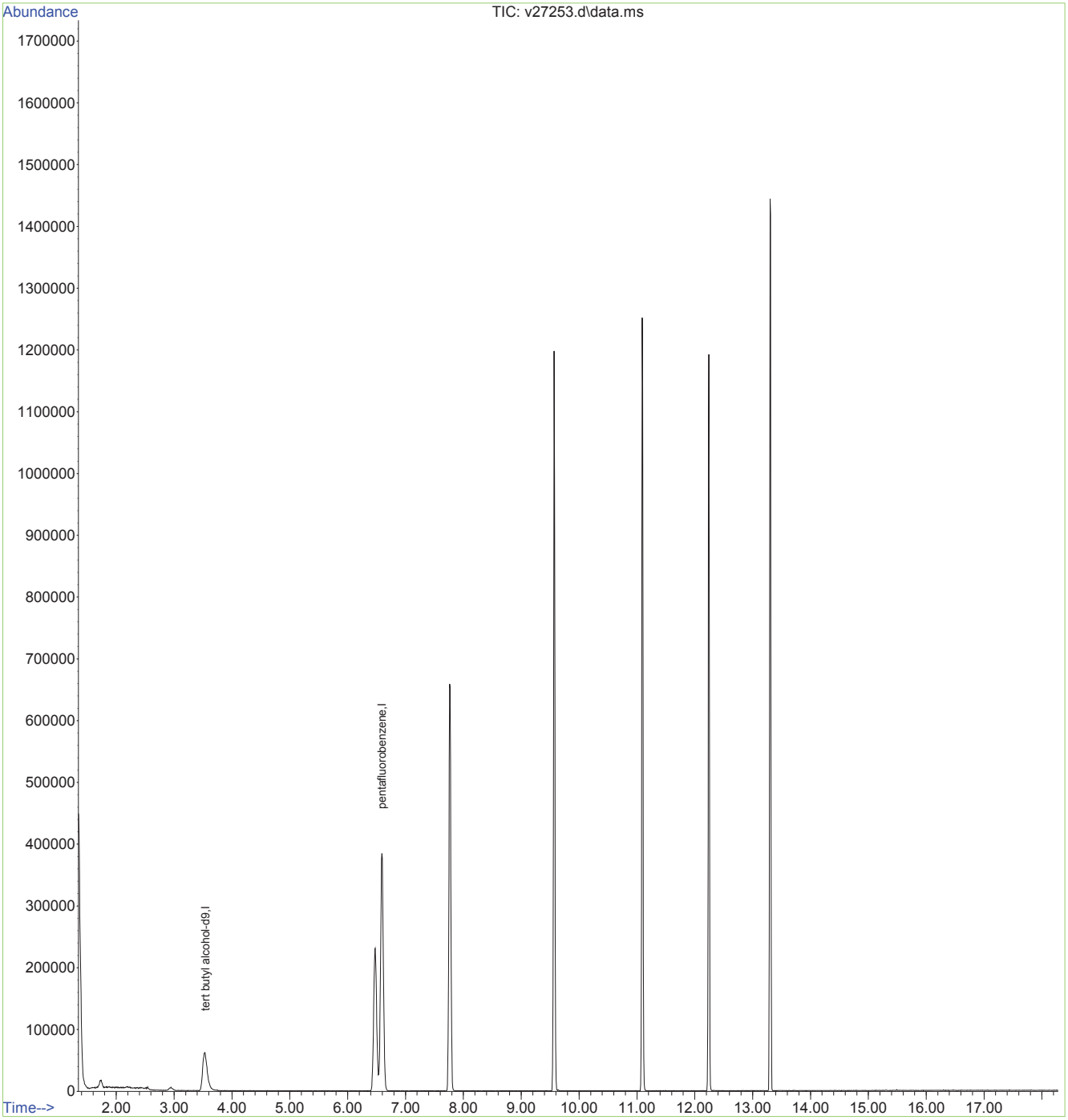
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140122\
Data File : v27253.d
Acq On : 22 Jan 2014 11:51 am
Operator : amym
Sample : mc27745-8
Misc : MS31004,MSV1029,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 17 18:32:20 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140122\
Data File : v27256.d
Acq On : 22 Jan 2014 1:11 pm
Operator : amym
Sample : mc27745-1
Misc : MS31004,MSV1029,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 17 18:34:17 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.534	65	151441	500.00	ug/L	0.01
3) pentafluorobenzene	6.591	168	406377	50.00	ug/L	0.03

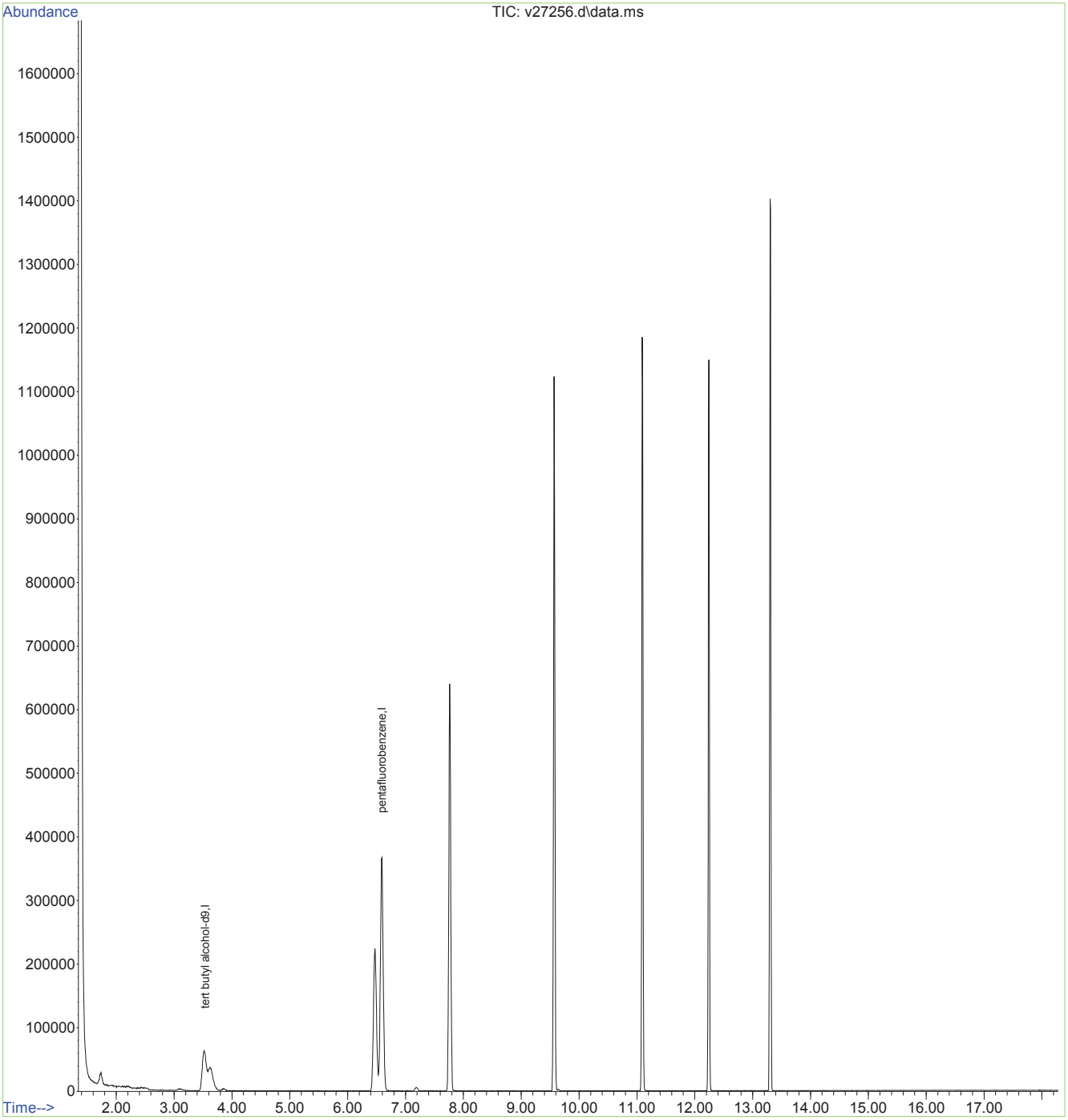
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140122\
Data File : v27256.d
Acq On : 22 Jan 2014 1:11 pm
Operator : amym
Sample : mc27745-1
Misc : MS31004,MSV1029,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 17 18:34:17 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140122\
Data File : v27257.d
Acq On : 22 Jan 2014 1:37 pm
Operator : amym
Sample : mc27745-2
Misc : MS31004,MSV1029,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 17 18:34:33 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.533	65	155317	500.00	ug/L	0.01
3) pentafluorobenzene	6.590	168	401109	50.00	ug/L	0.03

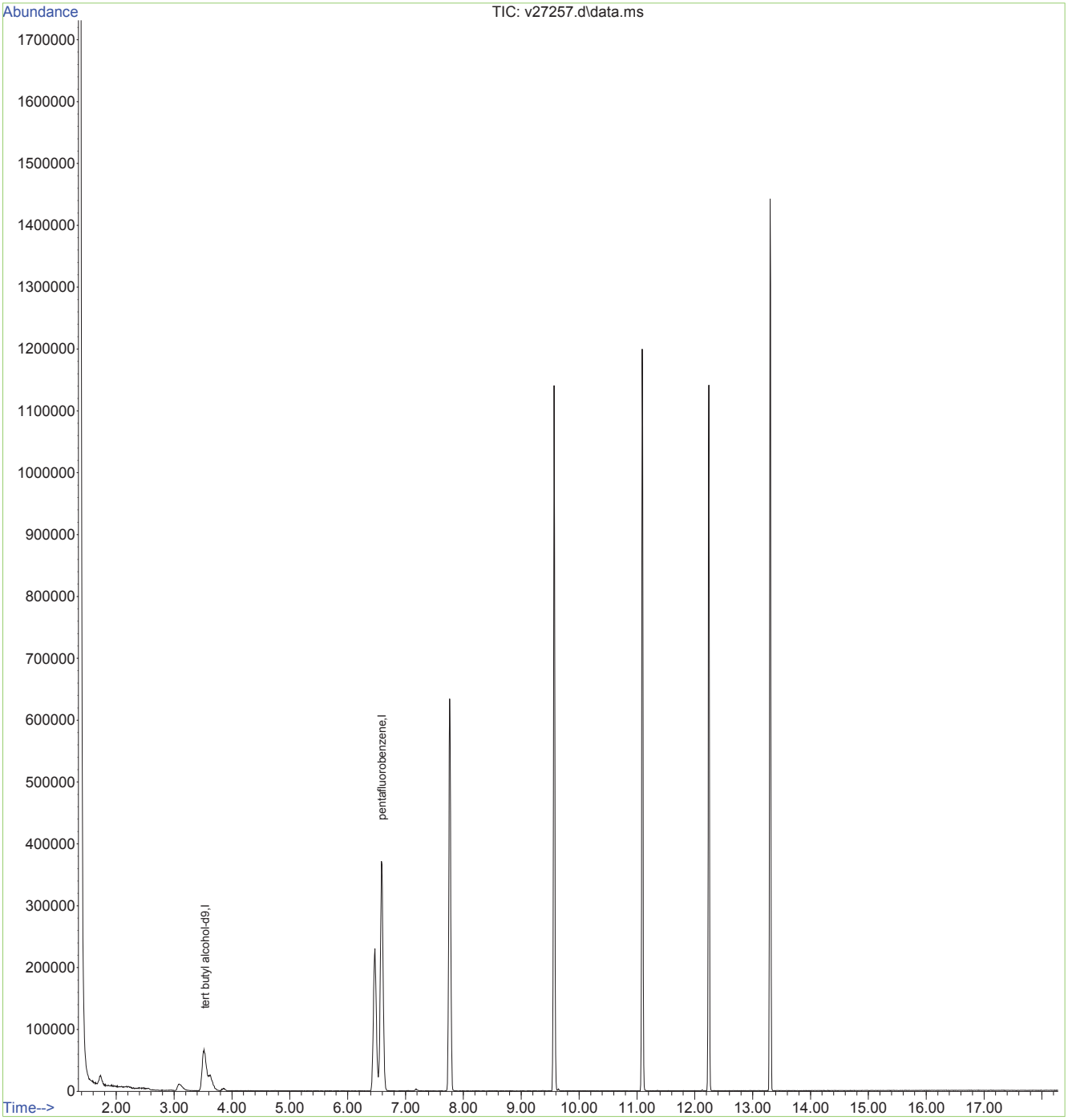
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140122\
Data File : v27257.d
Acq On : 22 Jan 2014 1:37 pm
Operator : amym
Sample : mc27745-2
Misc : MS31004,MSV1029,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 17 18:34:33 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140122\
Data File : v27258.d
Acq On : 22 Jan 2014 2:03 pm
Operator : amym
Sample : mc27745-3
Misc : MS31004,MSV1029,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 17 18:34:54 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.530	65	152672	500.00	ug/L	0.00
3) pentafluorobenzene	6.587	168	393741	50.00	ug/L	0.03

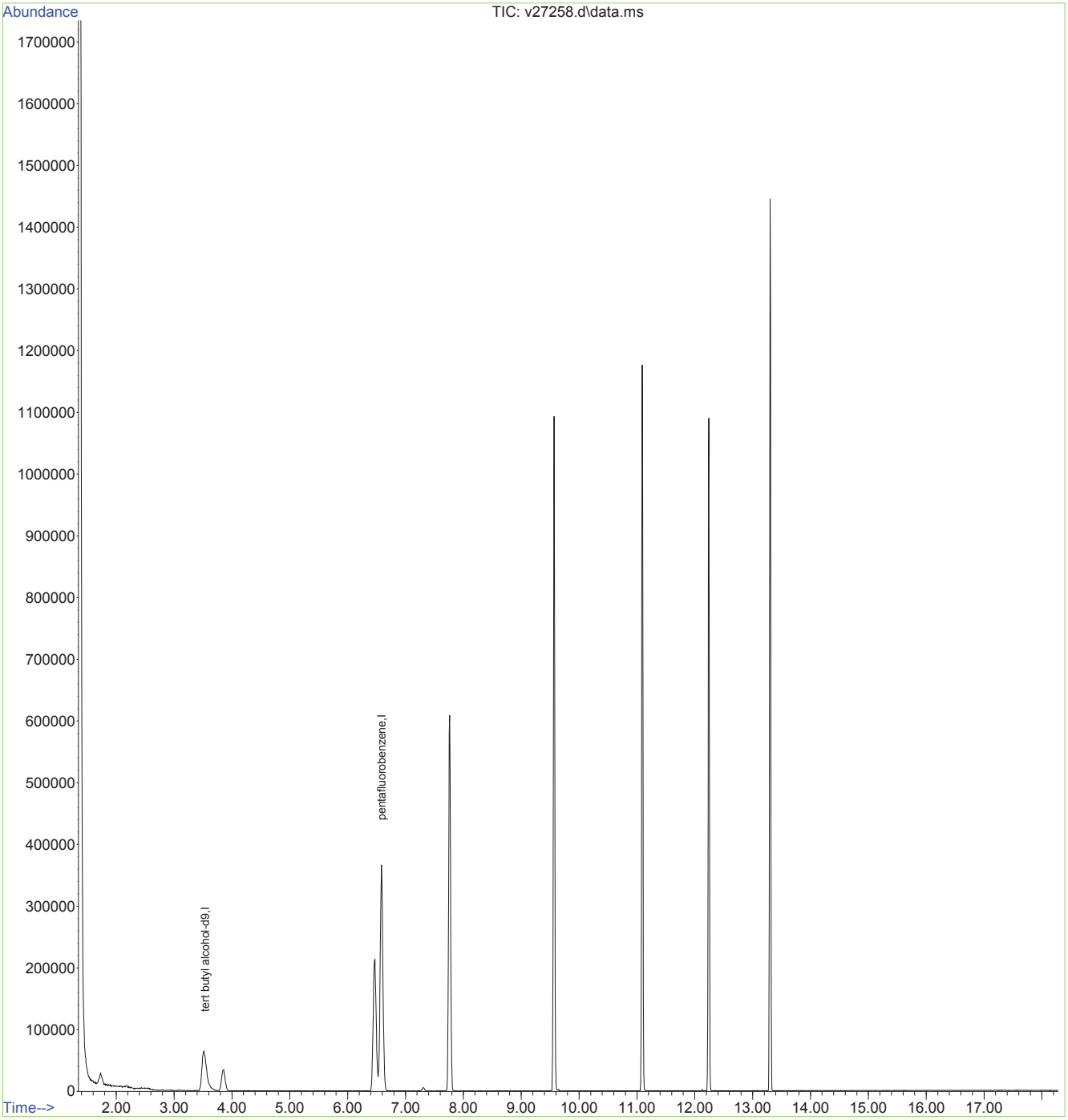
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140122\
Data File : v27258.d
Acq On : 22 Jan 2014 2:03 pm
Operator : amym
Sample : mc27745-3
Misc : MS31004,MSV1029,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 17 18:34:54 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140122\
Data File : v27259.d
Acq On : 22 Jan 2014 2:30 pm
Operator : amym
Sample : mc27745-4
Misc : MS31004,MSV1029,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 17 18:35:12 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.530	65	146580	500.00	ug/L	0.00
3) pentafluorobenzene	6.588	168	388659	50.00	ug/L	0.03

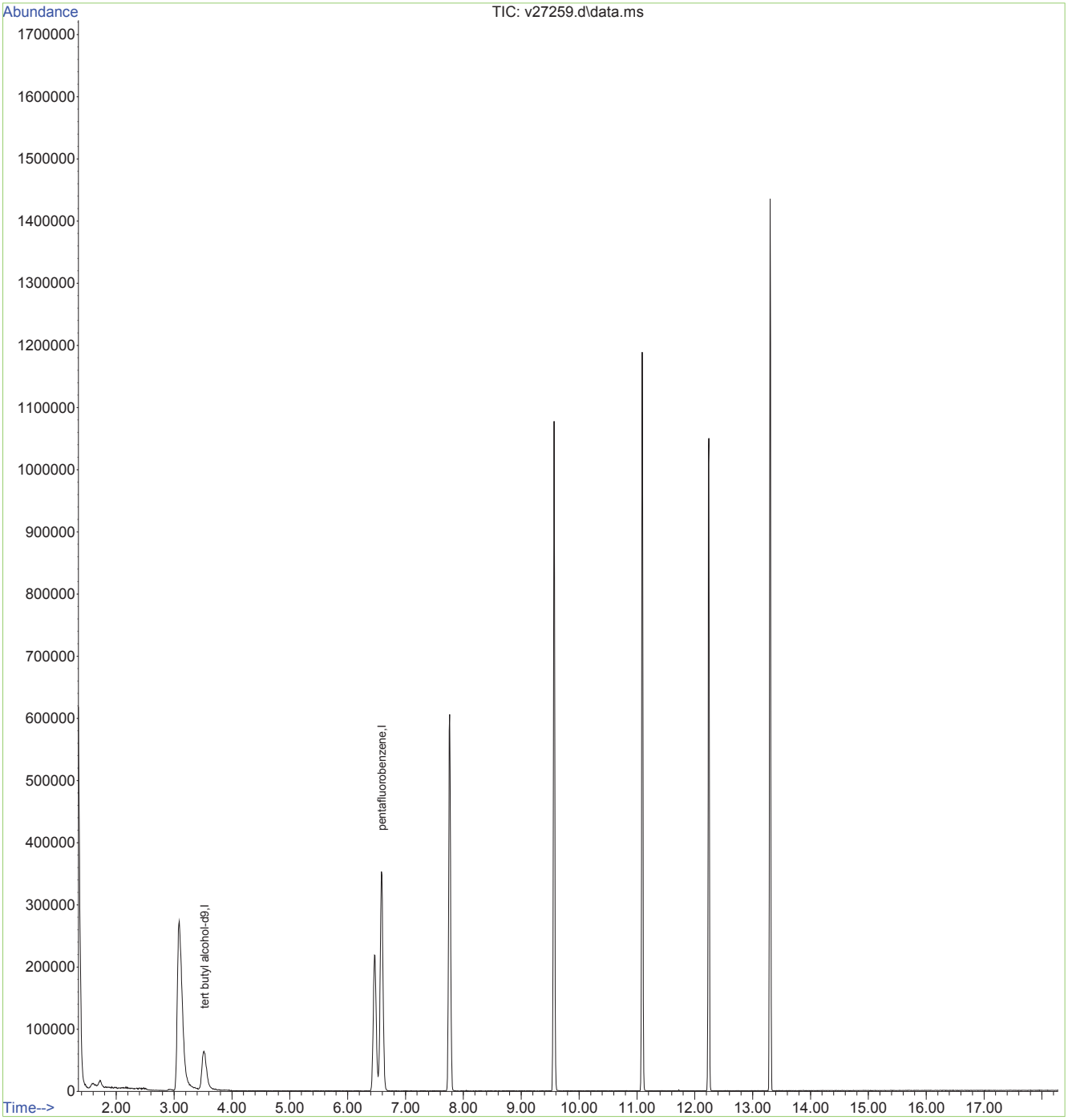
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140122\
Data File : v27259.d
Acq On : 22 Jan 2014 2:30 pm
Operator : amym
Sample : mc27745-4
Misc : MS31004,MSV1029,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 17 18:35:12 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140122\
Data File : v27260.d
Acq On : 22 Jan 2014 2:56 pm
Operator : amym
Sample : mc27745-5
Misc : MS31004,MSV1029,,,,5,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 17 18:35:38 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.538	65	158145	500.00	ug/L	0.02
3) pentafluorobenzene	6.591	168	392234	50.00	ug/L	0.03

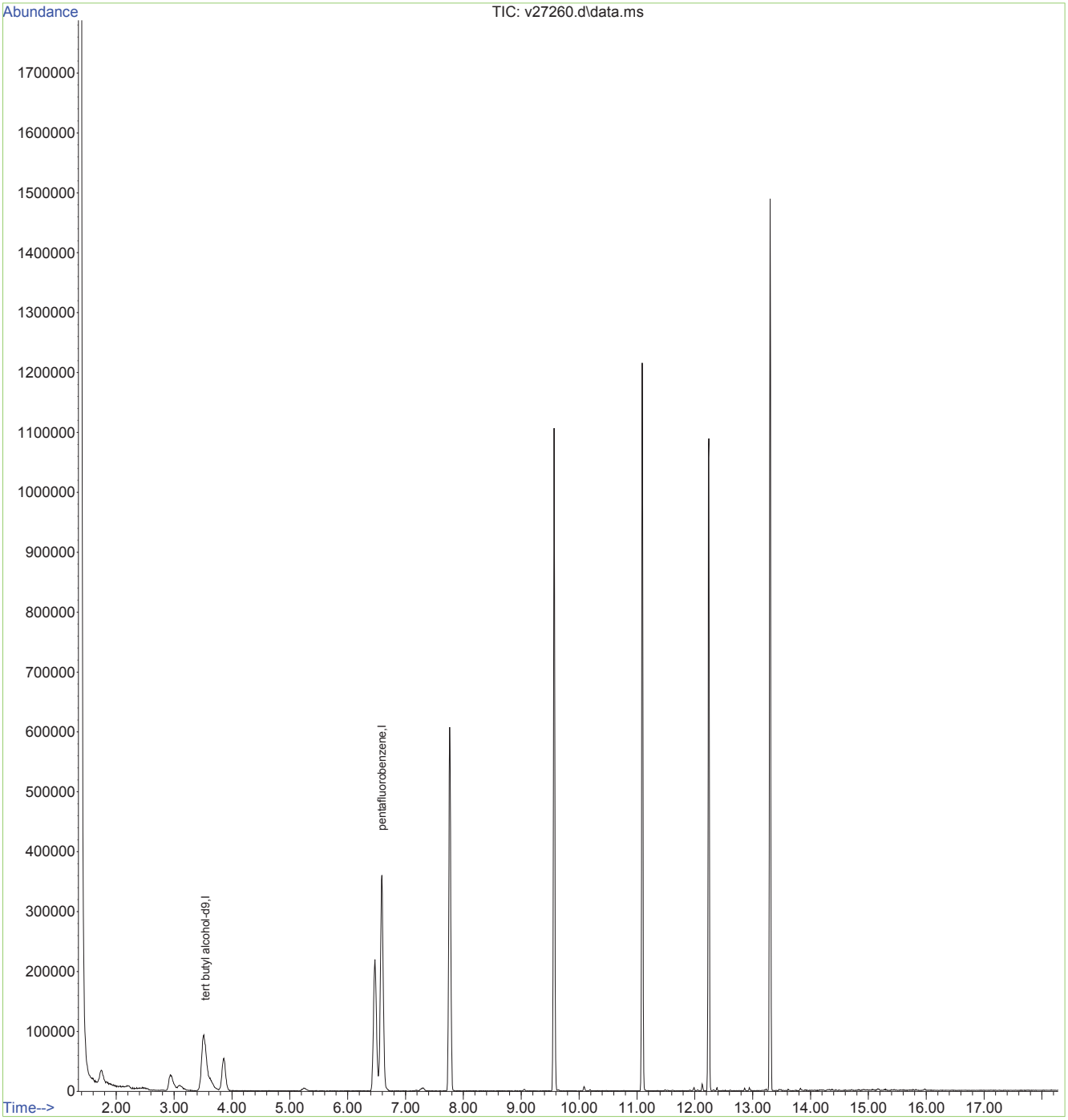
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140122\
Data File : v27260.d
Acq On : 22 Jan 2014 2:56 pm
Operator : amym
Sample : mc27745-5
Misc : MS31004,MSV1029,,,,5,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 17 18:35:38 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140122\
Data File : v27261.d
Acq On : 22 Jan 2014 3:22 pm
Operator : amym
Sample : mc27745-6
Misc : MS31004,MSV1029,,,,5,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 17 18:35:54 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.539	65	163870	500.00	ug/L	0.02
3) pentafluorobenzene	6.591	168	411592	50.00	ug/L	0.03

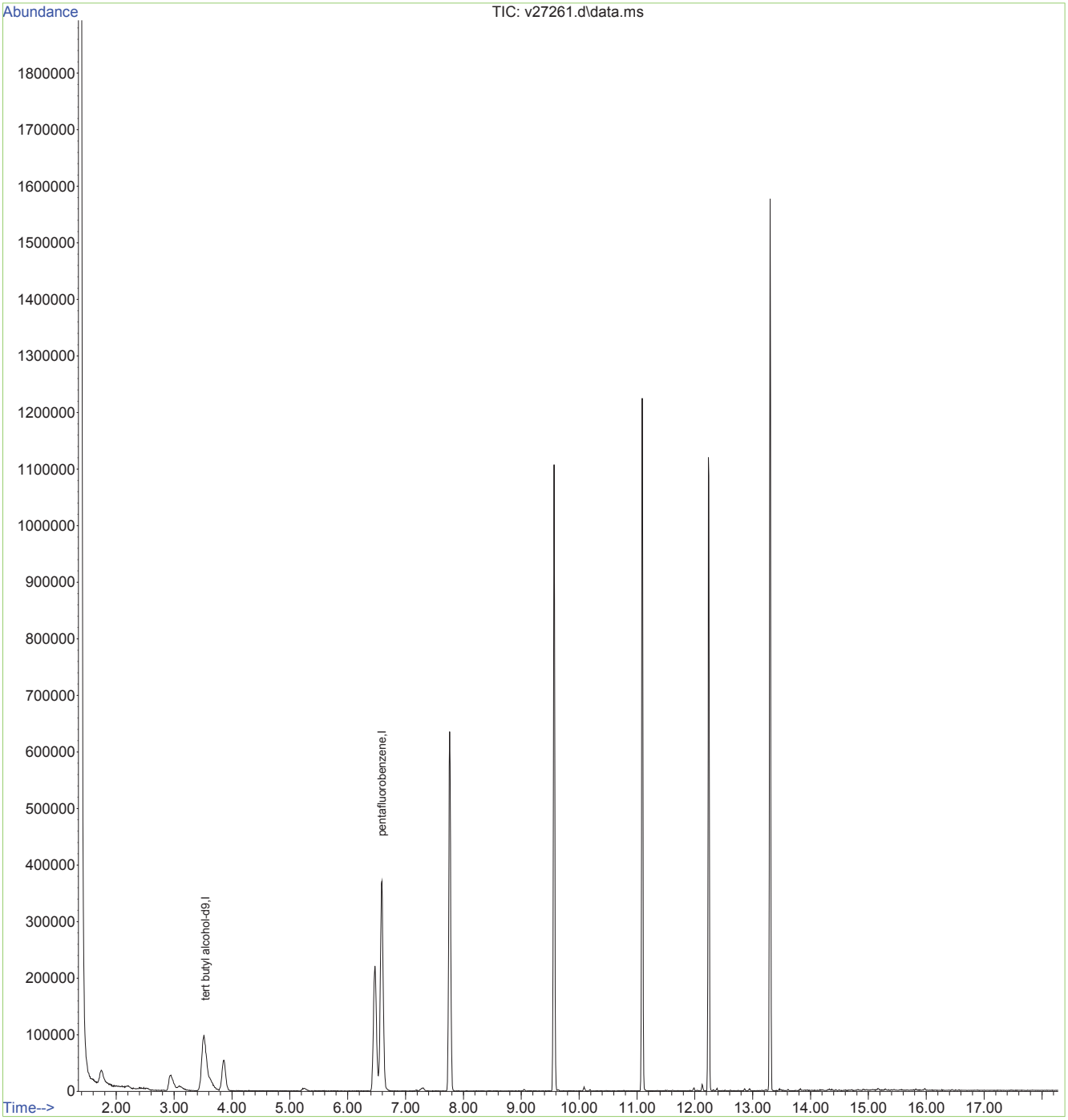
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140122\
Data File : v27261.d
Acq On : 22 Jan 2014 3:22 pm
Operator : amym
Sample : mc27745-6
Misc : MS31004,MSV1029,,,,5,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 17 18:35:54 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140122\
Data File : v27262.d
Acq On : 22 Jan 2014 3:49 pm
Operator : amym
Sample : mc27745-7
Misc : MS31004,MSV1029,,,,5,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 17 18:36:31 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.538	65	180262	500.00	ug/L	0.02
3) pentafluorobenzene	6.589	168	466570	50.00	ug/L	0.03

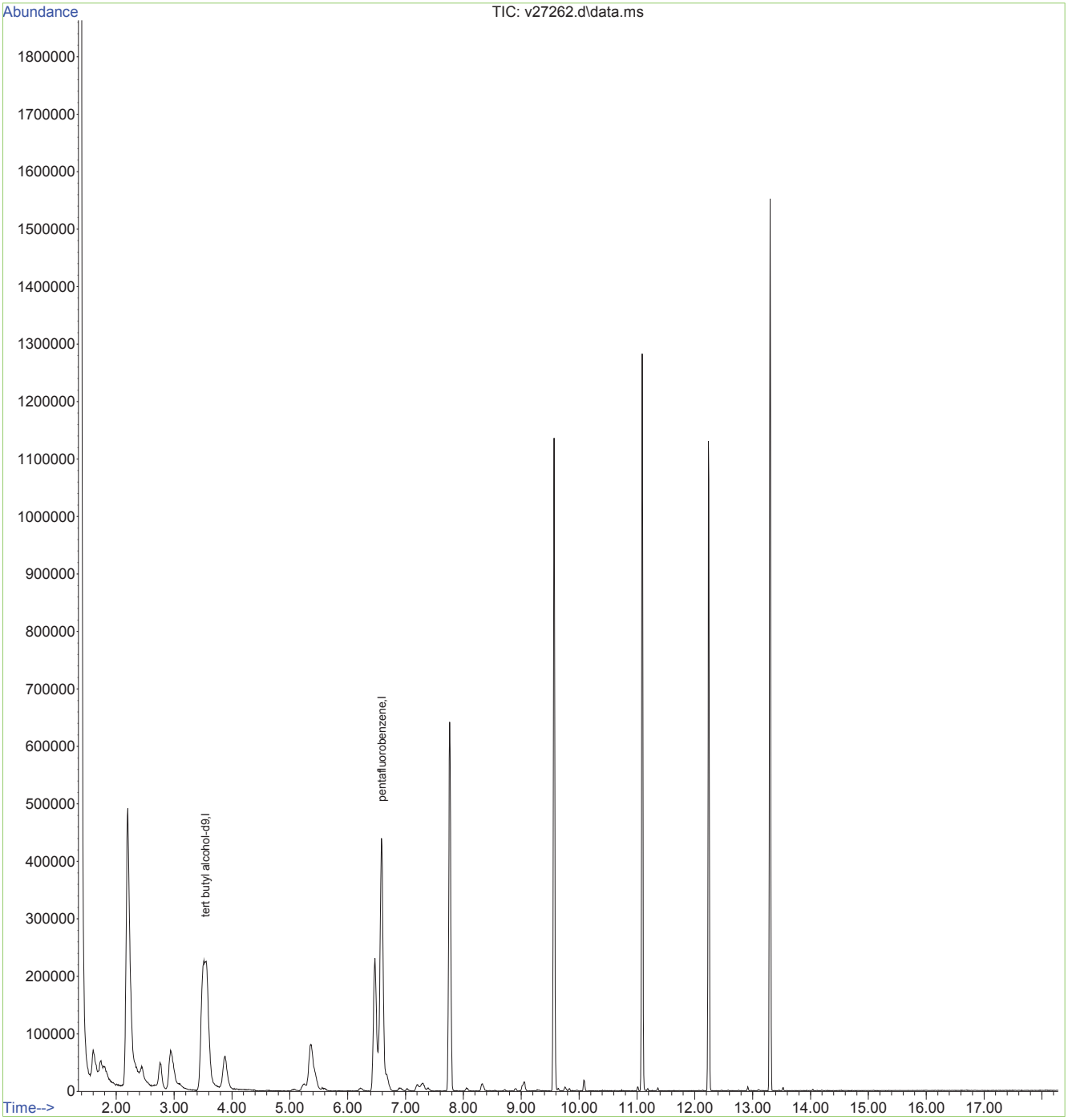
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140122\
Data File : v27262.d
Acq On : 22 Jan 2014 3:49 pm
Operator : amym
Sample : mc27745-7
Misc : MS31004,MSV1029,,,,5,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 17 18:36:31 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140122\
Data File : v27247.d
Acq On : 22 Jan 2014 9:12 am
Operator : amym
Sample : bs
Misc : MS30995,MSV1029,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 17 18:30:25 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

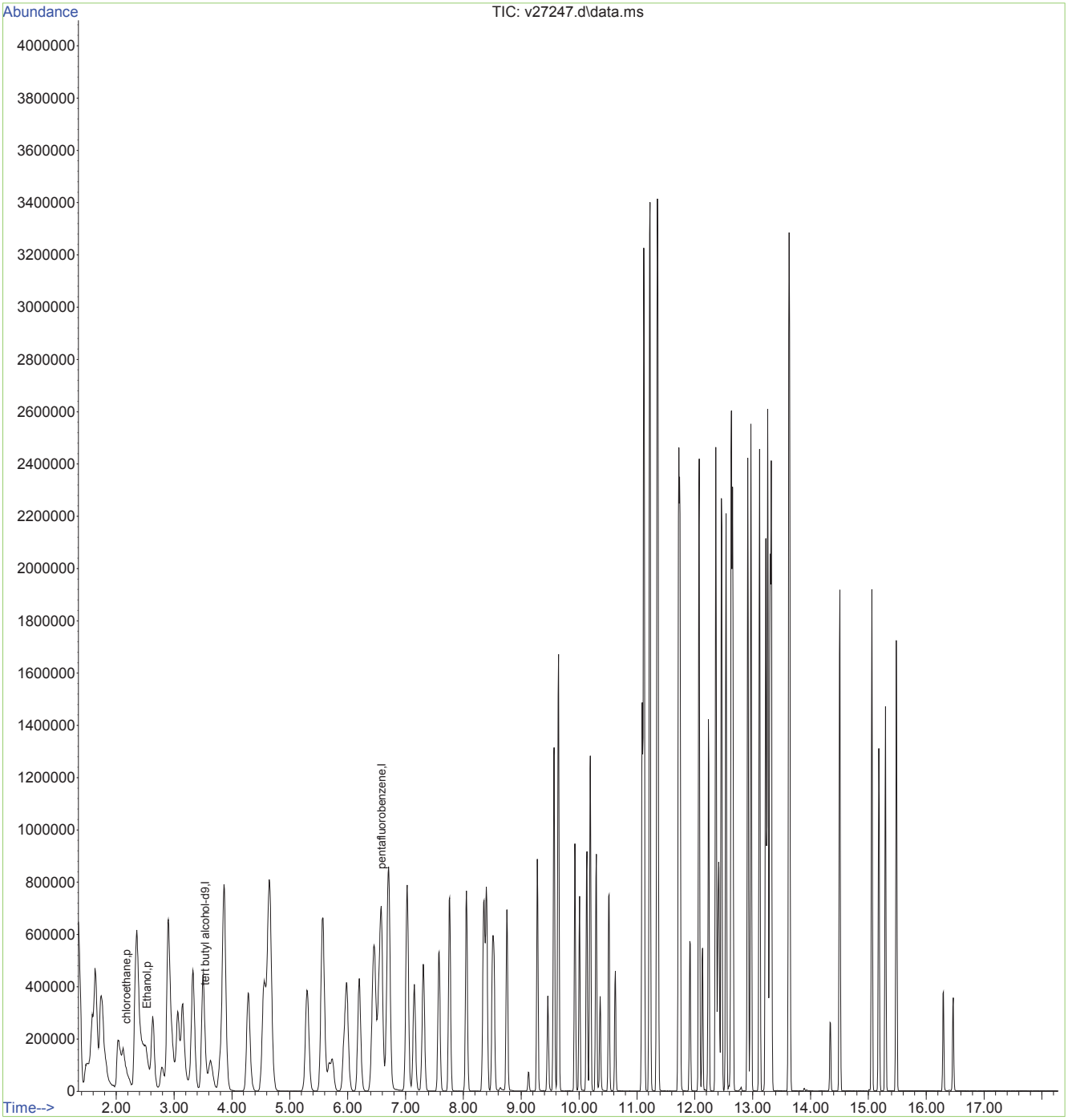
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.532	65	174385	500.00	ug/L	0.01
3) pentafluorobenzene	6.586	168	564468	50.00	ug/L	0.03
Target Compounds						Qvalue
2) Ethanol	2.529	45	247856	8973.49	ug/L	# 1
4) chloroethane	2.171	64	268713	61.99	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140122\
Data File : v27247.d
Acq On : 22 Jan 2014 9:12 am
Operator : amym
Sample : bs
Misc : MS30995,MSV1029,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 17 18:30:25 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140122\
Data File : v27251.d
Acq On : 22 Jan 2014 10:59 am
Operator : amym
Sample : mb
Misc : MS30995,MSV1029,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 17 18:31:00 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.532	65	158652	500.00	ug/L	0.00
3) pentafluorobenzene	6.588	168	468505	50.00	ug/L	0.03

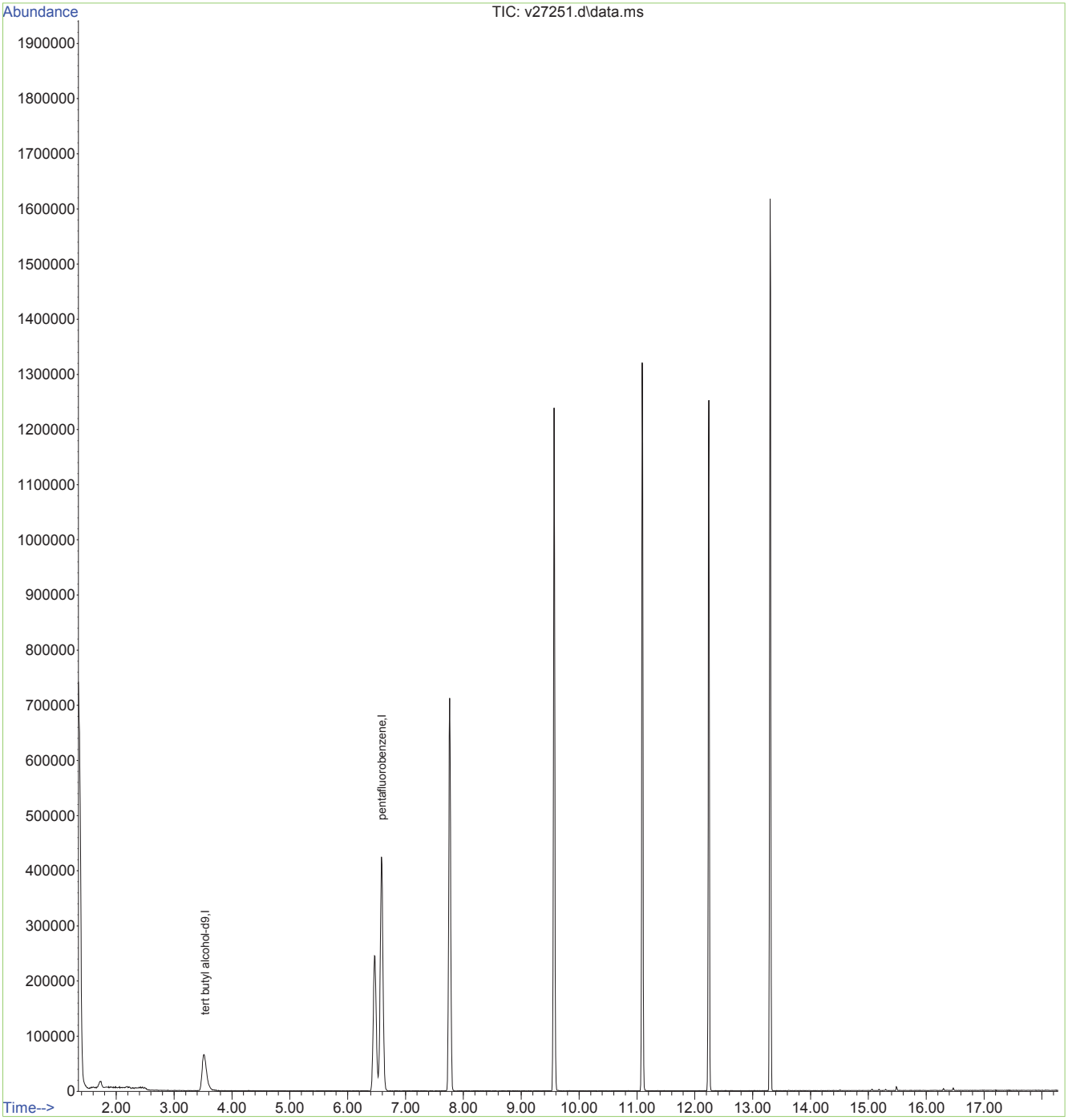
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140122\
Data File : v27251.d
Acq On : 22 Jan 2014 10:59 am
Operator : amym
Sample : mb
Misc : MS30995,MSV1029,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 17 18:31:00 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140122\
Data File : v27271.d
Acq On : 22 Jan 2014 7:47 pm
Operator : amym
Sample : mc27745-1ms
Misc : MS31004,MSV1029,,,,5,5
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Nov 17 18:41:30 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

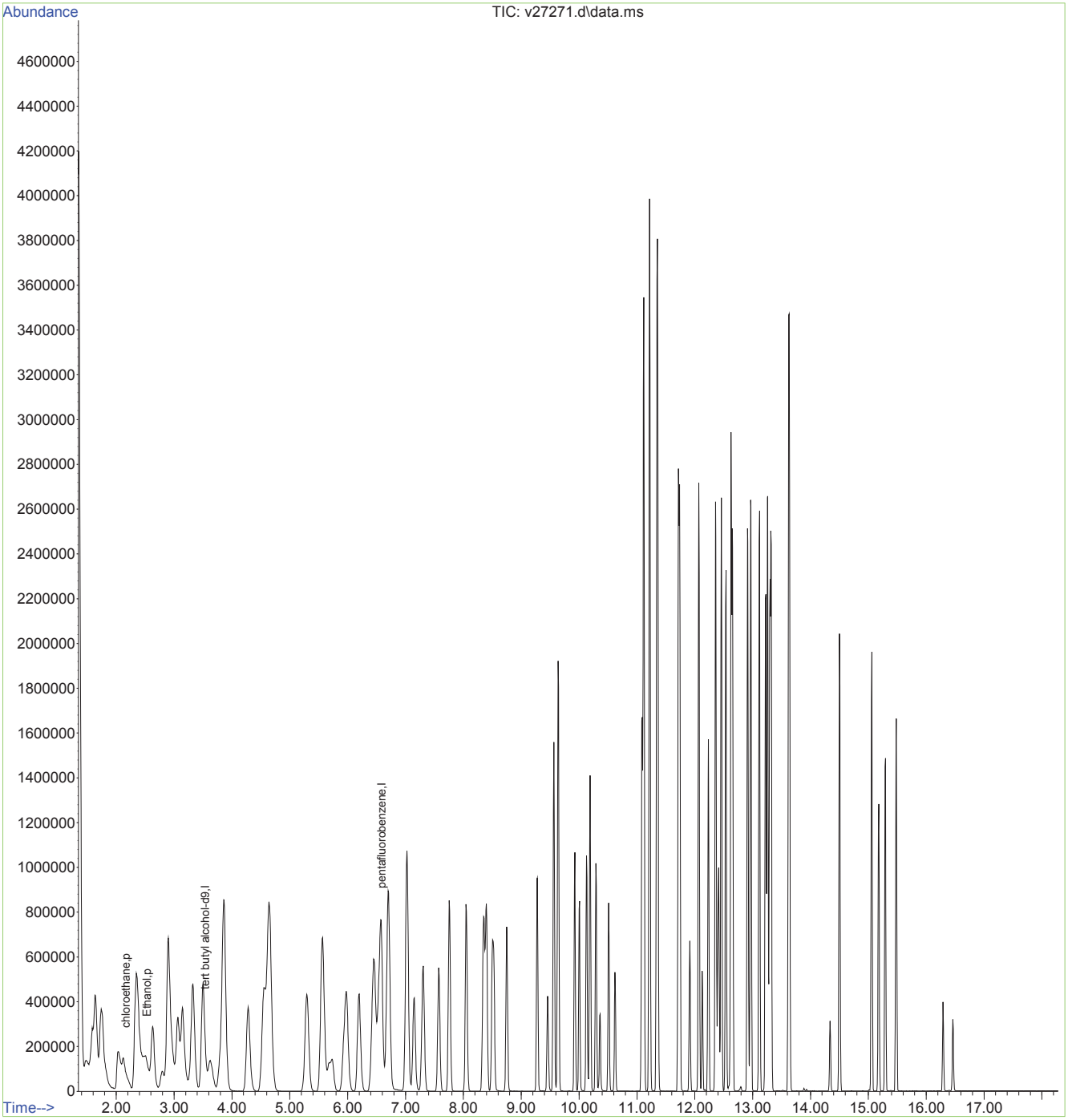
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.533	65	241459	500.00	ug/L	# 0.01
3) pentafluorobenzene	6.583	168	664916	50.00	ug/L	0.02
Target Compounds						Qvalue
2) Ethanol	2.530	45	258159	6631.44	ug/L	# 1
4) chloroethane	2.167	64	256547	50.07	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140122\
Data File : v27271.d
Acq On : 22 Jan 2014 7:47 pm
Operator : amym
Sample : mc27745-1ms
Misc : MS31004,MSV1029,,,,5,5
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Nov 17 18:41:30 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140122\
Data File : v27272.d
Acq On : 22 Jan 2014 8:13 pm
Operator : amym
Sample : mc27745-1msd
Misc : MS31004,MSV1029,,,,5,5
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Nov 17 18:42:09 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

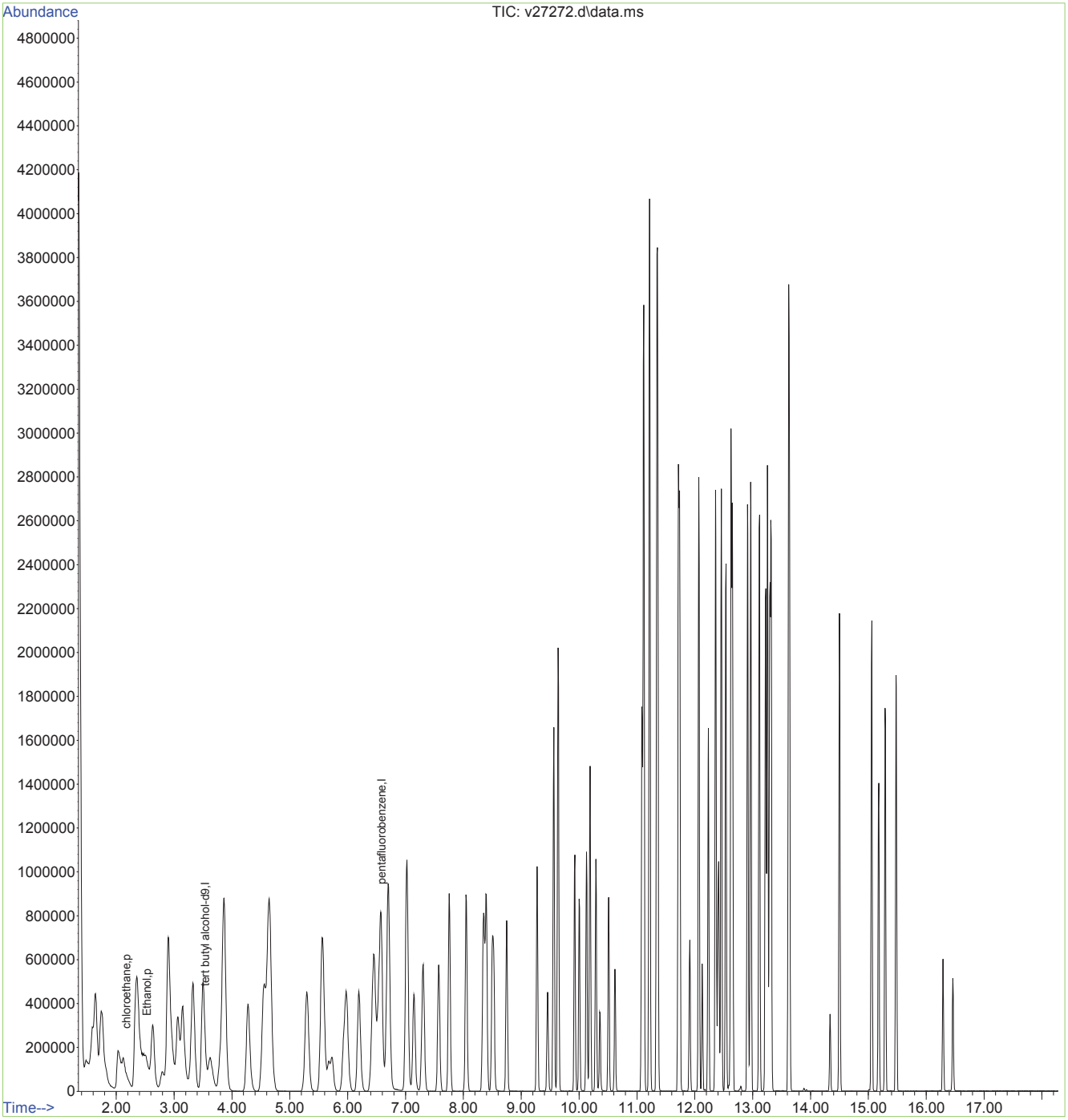
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.530	65	261908	500.00	ug/L	# 0.00
3) pentafluorobenzene	6.582	168	684870	50.00	ug/L	0.02
Target Compounds						Qvalue
2) Ethanol	2.531	45	274135	6481.94	ug/L	# 1
4) chloroethane	2.172	64	262283	49.69	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140122\
Data File : v27272.d
Acq On : 22 Jan 2014 8:13 pm
Operator : amym
Sample : mc27745-1msd
Misc : MS31004,MSV1029,,,,5,5
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Nov 17 18:42:09 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Internal Sample Tracking Chronicle

Shell Oil

Job No: MC27745

URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC27745-1 Collected: 16-JAN-14 09:10 By: MW6D-ROX-011614			Received: 17-JAN-14		By: NT	
MC27745-1	SW846 8270D	21-JAN-14 19:29	KR	20-JAN-14	NE	AB8270SL+
MC27745-1	SW846 8011	21-JAN-14 23:10	CZ	20-JAN-14	MT	V8011SL
MC27745-1	SW846 8260C	22-JAN-14 13:11	AMY			V8260SL+
MC27745-1	SW846 8270D BY SIM	22-JAN-14 13:13	KR	20-JAN-14	NE	B8270SIMPAH
MC27745-2 Collected: 16-JAN-14 10:05 By: MW6C-ROX-011614			Received: 17-JAN-14		By: NT	
MC27745-2	SW846 8270D	21-JAN-14 19:51	KR	20-JAN-14	NE	AB8270SL+
MC27745-2	SW846 8011	21-JAN-14 23:35	CZ	20-JAN-14	MT	V8011SL
MC27745-2	SW846 8270D BY SIM	22-JAN-14 13:36	KR	20-JAN-14	NE	B8270SIMPAH
MC27745-2	SW846 8260C	22-JAN-14 13:37	AMY			V8260SL+
MC27745-3 Collected: 16-JAN-14 11:00 By: MW6B-ROX-011614			Received: 17-JAN-14		By: NT	
MC27745-3	SW846 8270D	21-JAN-14 20:14	KR	20-JAN-14	NE	AB8270SL+
MC27745-3	SW846 8011	22-JAN-14	CZ	20-JAN-14	MT	V8011SL
MC27745-3	SW846 8270D BY SIM	22-JAN-14 13:59	KR	20-JAN-14	NE	B8270SIMPAH
MC27745-3	SW846 8260C	22-JAN-14 14:03	AMY			V8260SL+
MC27745-4 Collected: 16-JAN-14 11:15 By: MW6A-ROX-011614-EB			Received: 17-JAN-14		By: NT	
MC27745-4	SW846 8270D	21-JAN-14 20:37	KR	20-JAN-14	NE	AB8270SL+
MC27745-4	SW846 8011	22-JAN-14 00:51	CZ	20-JAN-14	MT	V8011SL
MC27745-4	SW846 8270D BY SIM	22-JAN-14 14:22	KR	20-JAN-14	NE	B8270SIMPAH
MC27745-4	SW846 8260C	22-JAN-14 14:30	AMY			V8260SL+
MC27745-5 Collected: 16-JAN-14 12:10 By: MW6A-ROX-011614			Received: 17-JAN-14		By: NT	
MC27745-5	SW846 8270D	21-JAN-14 21:00	KR	20-JAN-14	NE	AB8270SL+
MC27745-5	SW846 8011	22-JAN-14 01:16	CZ	20-JAN-14	MT	V8011SL
MC27745-5	SW846 8270D BY SIM	22-JAN-14 14:45	KR	20-JAN-14	NE	B8270SIMPAH
MC27745-5	SW846 8260C	22-JAN-14 14:56	AMY			V8260SL+

Internal Sample Tracking Chronicle

Shell Oil

Job No: MC27745

URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC27745-6 Collected: 16-JAN-14 12:10 By: MW6A-ROX-011614-DUP			Received: 17-JAN-14		By: NT	
MC27745-6	SW846 8270D	21-JAN-14 21:23	KR	20-JAN-14	NE	AB8270SL+
MC27745-6	SW846 8011	22-JAN-14 01:42	CZ	20-JAN-14	MT	V8011SL
MC27745-6	SW846 8270D BY SIM	22-JAN-14 15:08	KR	20-JAN-14	NE	B8270SIMPAH
MC27745-6	SW846 8260C	22-JAN-14 15:22	AMY			V8260SL+
MC27745-7 Collected: 16-JAN-14 14:30 By: MW3-ROX-011614			Received: 17-JAN-14		By: NT	
MC27745-7	SW846 8270D	21-JAN-14 21:46	KR	20-JAN-14	NE	AB8270SL+
MC27745-7	SW846 8011	22-JAN-14 02:07	CZ	20-JAN-14	MT	V8011SL
MC27745-7	SW846 8270D BY SIM	22-JAN-14 15:31	KR	20-JAN-14	NE	B8270SIMPAH
MC27745-7	SW846 8260C	22-JAN-14 15:49	AMY			V8260SL+
MC27745-7	SW846 8270D	29-JAN-14 11:26	KR	28-JAN-14	MD	AB8270SL+
MC27745-8 Collected: 16-JAN-14 00:00 By: TB-ROX-011614-HCL			Received: 17-JAN-14		By: NT	
MC27745-8	SW846 8260C	22-JAN-14 11:51	AMY			V8260SL+
MC27745-9 Collected: 16-JAN-14 00:00 By: TB-ROX-011614-ST			Received: 17-JAN-14		By: NT	
MC27745-9	SW846 8011	22-JAN-14 02:32	CZ	20-JAN-14	MT	V8011SL

SGS Accutest Internal Chain of Custody

Job Number: MC27745
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL
Received: 01/17/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC27745-1.1	VOC Ref #3	Amy Min Yang	01/22/14 10:47	Retrieve from Storage
MC27745-1.1	Amy Min Yang	GCMSV	01/22/14 10:47	Load on Instrument
MC27745-1.1	GCMSV	Amy Min Yang	01/23/14 16:00	Unload from Instrument
MC27745-1.1	Amy Min Yang	VOC Ref #3	01/23/14 16:00	Return to Storage
MC27745-1.1	Scott Parsick		03/25/14 11:35	Disposed
MC27745-1.2	VOC Ref #3	Amy Min Yang	01/22/14 16:40	Retrieve from Storage
MC27745-1.2	Amy Min Yang	GCMSV	01/22/14 16:40	Load on Instrument
MC27745-1.2	GCMSV	Amy Min Yang	01/23/14 16:00	Unload from Instrument
MC27745-1.2	Amy Min Yang	VOC Ref #3	01/23/14 16:00	Return to Storage
MC27745-1.2	Scott Parsick		03/25/14 11:35	Disposed
MC27745-1.3	VOC Ref #3	Marc Tahtamoni	01/20/14 18:27	Retrieve from Storage
MC27745-1.3	Marc Tahtamoni		02/27/14 22:07	Depleted
MC27745-1.6	Walk In Ref #22	Marc Tahtamoni	01/20/14 15:11	Retrieve from Storage
MC27745-1.6	Marc Tahtamoni		02/27/14 22:07	Depleted
MC27745-2.1	VOC Ref #3	Amy Min Yang	01/22/14 10:47	Retrieve from Storage
MC27745-2.1	Amy Min Yang	GCMSV	01/22/14 10:47	Load on Instrument
MC27745-2.1	GCMSV	Amy Min Yang	01/23/14 16:00	Unload from Instrument
MC27745-2.1	Amy Min Yang	VOC Ref #3	01/23/14 16:00	Return to Storage
MC27745-2.1	Scott Parsick		03/25/14 11:35	Disposed
MC27745-2.3	VOC Ref #3	Marc Tahtamoni	01/20/14 18:27	Retrieve from Storage
MC27745-2.3	Marc Tahtamoni		02/27/14 22:07	Depleted
MC27745-2.4	VOC Ref #3	Marc Tahtamoni	01/21/14 09:16	Retrieve from Storage
MC27745-2.4	Marc Tahtamoni		02/27/14 22:07	Depleted
MC27745-2.6	Walk In Ref #22	Marc Tahtamoni	01/20/14 15:11	Retrieve from Storage
MC27745-2.6	Marc Tahtamoni		02/27/14 22:07	Depleted
MC27745-3.1	VOC Ref #3	Amy Min Yang	01/22/14 10:47	Retrieve from Storage
MC27745-3.1	Amy Min Yang	GCMSV	01/22/14 10:47	Load on Instrument
MC27745-3.1	GCMSV	Amy Min Yang	01/23/14 16:00	Unload from Instrument
MC27745-3.1	Amy Min Yang	VOC Ref #3	01/23/14 16:00	Return to Storage
MC27745-3.1	Scott Parsick		03/25/14 11:35	Disposed
MC27745-3.3	VOC Ref #3	Marc Tahtamoni	01/20/14 18:27	Retrieve from Storage
MC27745-3.3	Marc Tahtamoni		02/27/14 22:07	Depleted
MC27745-3.4	VOC Ref #3	Marc Tahtamoni	01/21/14 09:16	Retrieve from Storage
MC27745-3.4	Marc Tahtamoni		02/27/14 22:07	Depleted

SGS Accutest Internal Chain of Custody

Job Number: MC27745
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL
Received: 01/17/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC27745-3.5	Walk In Ref #22	Marc Tahtamoni	01/20/14 15:11	Retrieve from Storage
MC27745-3.5	Marc Tahtamoni		02/27/14 22:07	Depleted
MC27745-4.1	VOC Ref #3	Amy Min Yang	01/22/14 10:47	Retrieve from Storage
MC27745-4.1	Amy Min Yang	GCMSV	01/22/14 10:47	Load on Instrument
MC27745-4.1	GCMSV	Amy Min Yang	01/23/14 16:00	Unload from Instrument
MC27745-4.1	Amy Min Yang	VOC Ref #3	01/23/14 16:00	Return to Storage
MC27745-4.1	Scott Parsick		03/25/14 11:35	Disposed
MC27745-4.3	VOC Ref #3	Marc Tahtamoni	01/20/14 18:27	Retrieve from Storage
MC27745-4.3	Marc Tahtamoni		02/27/14 22:07	Depleted
MC27745-4.4	VOC Ref #3	Marc Tahtamoni	01/21/14 09:16	Retrieve from Storage
MC27745-4.4	Marc Tahtamoni		02/27/14 22:07	Depleted
MC27745-4.6	Walk In Ref #22	Marc Tahtamoni	01/20/14 15:11	Retrieve from Storage
MC27745-4.6	Marc Tahtamoni		02/27/14 22:07	Depleted
MC27745-5.1	VOC Ref #3	Amy Min Yang	01/22/14 10:47	Retrieve from Storage
MC27745-5.1	Amy Min Yang	GCMSV	01/22/14 10:47	Load on Instrument
MC27745-5.1	GCMSV	Amy Min Yang	01/23/14 16:00	Unload from Instrument
MC27745-5.1	Amy Min Yang	VOC Ref #3	01/23/14 16:00	Return to Storage
MC27745-5.1	Scott Parsick		03/25/14 11:35	Disposed
MC27745-5.3	VOC Ref #3	Marc Tahtamoni	01/20/14 18:27	Retrieve from Storage
MC27745-5.3	Marc Tahtamoni		02/27/14 22:07	Depleted
MC27745-5.4	VOC Ref #3	Marc Tahtamoni	01/21/14 09:16	Retrieve from Storage
MC27745-5.4	Marc Tahtamoni		02/27/14 22:07	Depleted
MC27745-5.5	Walk In Ref #22	Marc Tahtamoni	01/20/14 15:11	Retrieve from Storage
MC27745-5.5	Marc Tahtamoni		02/27/14 22:07	Depleted
MC27745-6.1	VOC Ref #3	Amy Min Yang	01/22/14 10:47	Retrieve from Storage
MC27745-6.1	Amy Min Yang	GCMSV	01/22/14 10:47	Load on Instrument
MC27745-6.1	GCMSV	Amy Min Yang	01/23/14 16:00	Unload from Instrument
MC27745-6.1	Amy Min Yang	VOC Ref #3	01/23/14 16:00	Return to Storage
MC27745-6.1	Scott Parsick		03/25/14 11:35	Disposed
MC27745-6.3	VOC Ref #3	Marc Tahtamoni	01/20/14 18:27	Retrieve from Storage
MC27745-6.3	Marc Tahtamoni		02/27/14 22:07	Depleted
MC27745-6.4	VOC Ref #3	Marc Tahtamoni	01/21/14 09:16	Retrieve from Storage

SGS Accutest Internal Chain of Custody

Job Number: MC27745
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL
Received: 01/17/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC27745-6.4	Marc Tahtamoni		02/27/14 22:07	Depleted
MC27745-6.6	Walk In Ref #22	Marc Tahtamoni	01/20/14 15:11	Retrieve from Storage
MC27745-6.6	Marc Tahtamoni		02/27/14 22:07	Depleted
MC27745-7.1	VOC Ref #3	Amy Min Yang	01/22/14 10:47	Retrieve from Storage
MC27745-7.1	Amy Min Yang	GCMSV	01/22/14 10:47	Load on Instrument
MC27745-7.1	GCMSV	Amy Min Yang	01/23/14 16:00	Unload from Instrument
MC27745-7.1	Amy Min Yang	VOC Ref #3	01/23/14 16:00	Return to Storage
MC27745-7.1	Scott Parsick		03/25/14 11:35	Disposed
MC27745-7.3	VOC Ref #3	Marc Tahtamoni	01/20/14 18:27	Retrieve from Storage
MC27745-7.3	Marc Tahtamoni		02/27/14 22:07	Depleted
MC27745-7.4	VOC Ref #3	Marc Tahtamoni	01/21/14 09:16	Retrieve from Storage
MC27745-7.4	Marc Tahtamoni		02/27/14 22:07	Depleted
MC27745-7.5	Walk In Ref #22	Thomas Abruzzise	01/24/14 14:10	Retrieve from Storage
MC27745-7.5	Scott Parsick		03/25/14 11:35	Disposed
MC27745-7.6	Walk In Ref #22	Marc Tahtamoni	01/20/14 15:11	Retrieve from Storage
MC27745-7.6	Marc Tahtamoni		02/27/14 22:07	Depleted
MC27745-8.1	VOC Ref #3	Amy Min Yang	01/22/14 10:47	Retrieve from Storage
MC27745-8.1	Amy Min Yang	GCMSV	01/22/14 10:47	Load on Instrument
MC27745-8.1	GCMSV	Amy Min Yang	01/23/14 16:00	Unload from Instrument
MC27745-8.1	Amy Min Yang	VOC Ref #3	01/23/14 16:00	Return to Storage
MC27745-8.1	Scott Parsick		03/25/14 11:35	Disposed
MC27745-9.1	VOC Ref #3	Marc Tahtamoni	01/20/14 18:27	Retrieve from Storage
MC27745-9.1	Marc Tahtamoni		02/27/14 22:07	Depleted
MC27745-9.2	VOC Ref #3	Marc Tahtamoni	01/21/14 09:16	Retrieve from Storage
MC27745-9.2	Marc Tahtamoni		02/27/14 22:07	Depleted

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC27745
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1029-MB	V27251.D	1	01/22/14	AMY	n/a	n/a	MSV1029

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27745-1, MC27745-2, MC27745-3, MC27745-4, MC27745-5, MC27745-6, MC27745-7, MC27745-8

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	

Method Blank Summary

Job Number: MC27745
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1029-MB	V27251.D	1	01/22/14	AMY	n/a	n/a	MSV1029

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27745-1, MC27745-2, MC27745-3, MC27745-4, MC27745-5, MC27745-6, MC27745-7, MC27745-8

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
123-91-1	1,4-Dioxane	ND	25	16	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.70	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

Method Blank Summary

Job Number: MC27745
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1029-MB	V27251.D	1	01/22/14	AMY	n/a	n/a	MSV1029

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27745-1, MC27745-2, MC27745-3, MC27745-4, MC27745-5, MC27745-6, MC27745-7, MC27745-8

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	103%	70-130%
2037-26-5	Toluene-D8	98%	70-130%
460-00-4	4-Bromofluorobenzene	104%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Job Number: MC27745
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1029-BS	V27247.D	1	01/22/14	AMY	n/a	n/a	MSV1029

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27745-1, MC27745-2, MC27745-3, MC27745-4, MC27745-5, MC27745-6, MC27745-7, MC27745-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	47.7	95	70-130
107-02-8	Acrolein	50	78.7	157* [a]	70-130
107-13-1	Acrylonitrile	100	101	101	70-130
71-43-2	Benzene	50	53.9	108	70-130
108-86-1	Bromobenzene	50	54.4	109	70-130
74-97-5	Bromochloromethane	50	53.1	106	70-130
75-27-4	Bromodichloromethane	50	57.7	115	70-130
75-25-2	Bromoform	50	45.6	91	70-130
74-83-9	Bromomethane	50	49.3	99	70-130
78-93-3	2-Butanone (MEK)	50	47.8	96	70-130
104-51-8	n-Butylbenzene	50	58.2	116	70-130
135-98-8	sec-Butylbenzene	50	59.8	120	70-130
98-06-6	tert-Butylbenzene	50	59.9	120	70-130
75-15-0	Carbon disulfide	50	47.8	96	70-130
56-23-5	Carbon tetrachloride	50	60.7	121	70-130
108-90-7	Chlorobenzene	50	47.9	96	70-130
75-00-3	Chloroethane	50	62.0	124	70-130
110-75-8	2-Chloroethyl vinyl ether	50	107	214* [a]	70-130
67-66-3	Chloroform	50	51.5	103	70-130
74-87-3	Chloromethane	50	48.0	96	70-130
95-49-8	o-Chlorotoluene	50	53.9	108	70-130
106-43-4	p-Chlorotoluene	50	54.9	110	70-130
124-48-1	Dibromochloromethane	50	58.7	117	70-130
95-50-1	1,2-Dichlorobenzene	50	50.0	100	70-130
541-73-1	1,3-Dichlorobenzene	50	51.0	102	70-130
106-46-7	1,4-Dichlorobenzene	50	50.7	101	70-130
75-71-8	Dichlorodifluoromethane	50	54.0	108	70-130
75-34-3	1,1-Dichloroethane	50	53.5	107	70-130
107-06-2	1,2-Dichloroethane	50	54.0	108	70-130
75-35-4	1,1-Dichloroethene	50	54.9	110	70-130
156-59-2	cis-1,2-Dichloroethene	50	53.5	107	70-130
156-60-5	trans-1,2-Dichloroethene	50	53.1	106	70-130
78-87-5	1,2-Dichloropropane	50	52.2	104	70-130
142-28-9	1,3-Dichloropropane	50	51.8	104	70-130
594-20-7	2,2-Dichloropropane	50	63.6	127	70-130
563-58-6	1,1-Dichloropropene	50	54.9	110	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC27745
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1029-BS	V27247.D	1	01/22/14	AMY	n/a	n/a	MSV1029

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27745-1, MC27745-2, MC27745-3, MC27745-4, MC27745-5, MC27745-6, MC27745-7, MC27745-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	50	50.2	100	70-130
10061-02-6	trans-1,3-Dichloropropene	50	52.2	104	70-130
123-91-1	1,4-Dioxane	250	232	93	70-130
97-63-2	Ethyl methacrylate	50	48.9	98	77-137
100-41-4	Ethylbenzene	50	55.1	110	70-130
87-68-3	Hexachlorobutadiene	50	60.3	121	70-130
591-78-6	2-Hexanone	50	46.6	93	70-130
98-82-8	Isopropylbenzene	50	60.7	121	70-130
99-87-6	p-Isopropyltoluene	50	58.0	116	70-130
1634-04-4	Methyl Tert Butyl Ether	50	56.5	113	70-130
108-10-1	4-Methyl-2-pentanone (MIBK)	50	53.6	107	70-130
74-95-3	Methylene bromide	50	52.6	105	70-130
75-09-2	Methylene chloride	50	49.4	99	70-130
91-20-3	Naphthalene	50	53.0	106	70-130
103-65-1	n-Propylbenzene	50	57.6	115	70-130
100-42-5	Styrene	50	50.9	102	70-130
630-20-6	1,1,1,2-Tetrachloroethane	50	55.0	110	70-130
79-34-5	1,1,2,2-Tetrachloroethane	50	51.0	102	70-130
127-18-4	Tetrachloroethene	50	56.4	113	70-130
108-88-3	Toluene	50	56.9	114	70-130
87-61-6	1,2,3-Trichlorobenzene	50	59.1	118	70-130
120-82-1	1,2,4-Trichlorobenzene	50	61.9	124	70-130
71-55-6	1,1,1-Trichloroethane	50	59.1	118	70-130
79-00-5	1,1,2-Trichloroethane	50	51.6	103	70-130
79-01-6	Trichloroethene	50	55.9	112	70-130
75-69-4	Trichlorofluoromethane	50	60.7	121	70-130
96-18-4	1,2,3-Trichloropropane	50	54.9	110	70-130
95-63-6	1,2,4-Trimethylbenzene	50	58.5	117	70-130
108-67-8	1,3,5-Trimethylbenzene	50	59.7	119	70-130
108-05-4	Vinyl Acetate	50	53.5	107	70-130
75-01-4	Vinyl chloride	50	47.1	94	70-130
	m,p-Xylene	100	92.4	92	70-130
95-47-6	o-Xylene	50	46.3	93	70-130
1330-20-7	Xylene (total)	150	139	93	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC27745
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1029-BS	V27247.D	1	01/22/14	AMY	n/a	n/a	MSV1029

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27745-1, MC27745-2, MC27745-3, MC27745-4, MC27745-5, MC27745-6, MC27745-7, MC27745-8

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	96%	70-130%
2037-26-5	Toluene-D8	99%	70-130%
460-00-4	4-Bromofluorobenzene	99%	70-130%

(a) Outside control limits. Associated samples are non-detect for this compound.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27745
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC27745-1MS	V27271.D	5	01/22/14	AMY	n/a	n/a	MSV1029
MC27745-1MSD	V27272.D	5	01/22/14	AMY	n/a	n/a	MSV1029
MC27745-1	V27256.D	1	01/22/14	AMY	n/a	n/a	MSV1029

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27745-1, MC27745-2, MC27745-3, MC27745-4, MC27745-5, MC27745-6, MC27745-7, MC27745-8

CAS No.	Compound	MC27745-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		250	150	60* [a]	250	160	64* [a]	6	70-130/30
107-02-8	Acrolein	ND		250	322	129	250	328	131* [a]	2	70-130/30
107-13-1	Acrylonitrile	ND		500	506	101	500	507	101	0	70-130/30
71-43-2	Benzene	ND		250	331	132* [a]	250	306	122	8	70-130/30
108-86-1	Bromobenzene	ND		250	282	113	250	276	110	2	70-130/30
74-97-5	Bromochloromethane	ND		250	264	106	250	264	106	0	70-130/30
75-27-4	Bromodichloromethane	ND		250	258	103	250	258	103	0	70-130/30
75-25-2	Bromoform	ND		250	215	86	250	216	86	0	70-130/30
74-83-9	Bromomethane	ND		250	201	80	250	200	80	0	70-130/30
78-93-3	2-Butanone (MEK)	ND		250	189	76	250	192	77	2	70-130/30
104-51-8	n-Butylbenzene	ND		250	282	113	250	288	115	2	70-130/30
135-98-8	sec-Butylbenzene	ND		250	299	120	250	297	119	1	70-130/30
98-06-6	tert-Butylbenzene	ND		250	284	114	250	281	112	1	70-130/30
75-15-0	Carbon disulfide	ND		250	239	96	250	243	97	2	70-130/30
56-23-5	Carbon tetrachloride	ND		250	250	100	250	255	102	2	70-130/30
108-90-7	Chlorobenzene	ND		250	233	93	250	235	94	1	70-130/30
75-00-3	Chloroethane	ND		250	250	100	250	248	99	1	70-130/30
110-75-8	2-Chloroethyl vinyl ether	ND		250	ND	0* [a]	250	ND	0* [a]	nc	70-130/30
67-66-3	Chloroform	ND		250	240	96	250	241	96	0	70-130/30
74-87-3	Chloromethane	ND		250	195	78	250	192	77	2	70-130/30
95-49-8	o-Chlorotoluene	ND		250	269	108	250	267	107	1	70-130/30
106-43-4	p-Chlorotoluene	ND		250	272	109	250	269	108	1	70-130/30
124-48-1	Dibromochloromethane	ND		250	274	110	250	276	110	1	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		250	251	100	250	249	100	1	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		250	257	103	250	255	102	1	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		250	253	101	250	250	100	1	70-130/30
75-71-8	Dichlorodifluoromethane	ND		250	228	91	250	230	92	1	70-130/30
75-34-3	1,1-Dichloroethane	ND		250	257	103	250	258	103	0	70-130/30
107-06-2	1,2-Dichloroethane	ND		250	229	92	250	228	91	0	70-130/30
75-35-4	1,1-Dichloroethene	ND		250	279	112	250	279	112	0	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		250	275	110	250	274	110	0	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		250	266	106	250	272	109	2	70-130/30
78-87-5	1,2-Dichloropropane	ND		250	253	101	250	254	102	0	70-130/30
142-28-9	1,3-Dichloropropane	ND		250	259	104	250	256	102	1	70-130/30
594-20-7	2,2-Dichloropropane	ND		250	287	115	250	292	117	2	70-130/30
563-58-6	1,1-Dichloropropene	ND		250	254	102	250	260	104	2	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27745
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC27745-1MS	V27271.D	5	01/22/14	AMY	n/a	n/a	MSV1029
MC27745-1MSD	V27272.D	5	01/22/14	AMY	n/a	n/a	MSV1029
MC27745-1	V27256.D	1	01/22/14	AMY	n/a	n/a	MSV1029

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27745-1, MC27745-2, MC27745-3, MC27745-4, MC27745-5, MC27745-6, MC27745-7, MC27745-8

CAS No.	Compound	MC27745-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		250	240	96	250	240	96	0	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		250	248	99	250	250	100	1	70-130/30
123-91-1	1,4-Dioxane	ND		1250	1240	99	1250	1360	109	9	70-130/30
97-63-2	Ethyl methacrylate	ND		250	249	100	250	250	100	0	72-139/30
100-41-4	Ethylbenzene	ND		250	269	108	250	271	108	1	70-130/30
87-68-3	Hexachlorobutadiene	ND		250	275	110	250	285	114	4	70-130/30
591-78-6	2-Hexanone	ND		250	198	79	250	198	79	0	70-130/30
98-82-8	Isopropylbenzene	ND		250	311	124	250	306	122	2	70-130/30
99-87-6	p-Isopropyltoluene	ND		250	288	115	250	287	115	0	70-130/30
1634-04-4	Methyl Tert Butyl Ether	0.61	J	250	301	120	250	300	120	0	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	268	107	250	275	110	3	70-130/30
74-95-3	Methylene bromide	ND		250	245	98	250	244	98	0	70-130/30
75-09-2	Methylene chloride	ND		250	250	100	250	251	100	0	70-130/30
91-20-3	Naphthalene	ND		250	262	105	250	294	118	12	70-130/30
103-65-1	n-Propylbenzene	ND		250	289	116	250	287	115	1	70-130/30
100-42-5	Styrene	ND		250	252	101	250	252	101	0	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		250	258	103	250	258	103	0	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	273	109	250	275	110	1	70-130/30
127-18-4	Tetrachloroethene	ND		250	264	106	250	269	108	2	70-130/30
108-88-3	Toluene	ND		250	279	112	250	281	112	1	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		250	281	112	250	308	123	9	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		250	299	120	250	313	125	5	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		250	267	107	250	269	108	1	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		250	255	102	250	257	103	1	70-130/30
79-01-6	Trichloroethene	ND		250	263	105	250	266	106	1	70-130/30
75-69-4	Trichlorofluoromethane	ND		250	222	89	250	221	88	0	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		250	277	111	250	278	111	0	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		250	293	117	250	291	116	1	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		250	300	120	250	297	119	1	70-130/30
108-05-4	Vinyl Acetate	ND		250	254	102	250	255	102	0	70-130/30
75-01-4	Vinyl chloride	ND		250	191	76	250	191	76	0	70-130/30
	m,p-Xylene	ND		500	456	91	500	455	91	0	70-130/30
95-47-6	o-Xylene	ND		250	230	92	250	231	92	0	70-130/30
1330-20-7	Xylene (total)	ND		750	686	91	750	686	91	0	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27745
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC27745-1MS	V27271.D	5	01/22/14	AMY	n/a	n/a	MSV1029
MC27745-1MSD	V27272.D	5	01/22/14	AMY	n/a	n/a	MSV1029
MC27745-1	V27256.D	1	01/22/14	AMY	n/a	n/a	MSV1029

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27745-1, MC27745-2, MC27745-3, MC27745-4, MC27745-5, MC27745-6, MC27745-7, MC27745-8

CAS No.	Surrogate Recoveries	MS	MSD	MC27745-1	Limits
1868-53-7	Dibromofluoromethane	92%	93%	110%	70-130%
2037-26-5	Toluene-D8	98%	98%	99%	70-130%
460-00-4	4-Bromofluorobenzene	101%	100%	103%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.

* = Outside of Control Limits.

Volatile Internal Standard Area Summary

Job Number: MC27745
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSV1029-CC1019	**Injection Date:**	01/22/14
Lab File ID:	V27246.D	**Injection Time:**	08:45
Instrument ID:	GCMSV	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	605724	6.58	757292	7.76	419514	11.09	462866	13.30	180058	3.53
Upper Limit [a]	1211448	7.08	1514584	8.26	839028	11.59	925732	13.80	360116	4.03
Lower Limit [b]	302862	6.08	378646	7.26	209757	10.59	231433	12.80	90029	3.03

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSV1029-BS	564468	6.59	706762	7.76	384886	11.09	423775	13.30	174385	3.53
MSV1029-MB	468505	6.59	627027	7.76	348216	11.09	337826	13.30	158652	3.53
ZZZZZZ	446169	6.59	600590	7.77	335786	11.09	326846	13.30	148391	3.54
MC27745-8	431598	6.59	583326	7.77	329953	11.09	318171	13.30	148834	3.54
ZZZZZZ	428462	6.59	581210	7.77	329142	11.09	318632	13.30	149803	3.54
ZZZZZZ	414949	6.60	558604	7.77	316631	11.09	305478	13.30	145067	3.54
MC27745-1	406377	6.59	557257	7.77	310309	11.09	304354	13.30	151441	3.53
MC27745-2	401109	6.59	549187	7.77	311970	11.09	299911	13.30	155317	3.53
MC27745-3	393741	6.59	535774	7.76	305510	11.09	294098	13.30	152672	3.53
MC27745-4	388659	6.59	530266	7.76	300650	11.09	291627	13.30	146580	3.53
MC27745-5	392234	6.59	528985	7.77	304146	11.09	308199	13.30	158145	3.54
MC27745-6	411592	6.59	553113	7.76	317236	11.09	320141	13.30	163870	3.54
MC27745-7	466570	6.59	577420	7.77	326056	11.09	315868	13.30	180262	3.54
ZZZZZZ	694621	6.59	934560	7.77	516679	11.09	625001	13.30	381248*	3.54
ZZZZZZ	756409	6.59	1025515	7.77	544213	11.09	660731	13.30	0*	0.00*
ZZZZZZ	603292	6.71	1184622	7.81	468431	11.09	432420	13.30	254273	3.54
ZZZZZZ	630576	6.58	909912	7.76	445841	11.09	432739	13.30	238761	3.53
ZZZZZZ	632396	6.58	907679	7.76	446914	11.09	434700	13.30	240749	3.53
MC27745-1MS	664916	6.58	865058	7.76	460540	11.09	478133	13.30	241459	3.53
MC27745-1MSD	684870	6.58	887114	7.76	474551	11.09	500960	13.30	261908	3.53

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: MC27745
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Method: SW846 8260C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC27745-1	V27256.D	110	99	103
MC27745-2	V27257.D	110	99	104
MC27745-3	V27258.D	110	99	104
MC27745-4	V27259.D	110	99	104
MC27745-5	V27260.D	111	100	104
MC27745-6	V27261.D	108	99	103
MC27745-7	V27262.D	98	98	103
MC27745-8	V27253.D	107	99	104
MC27745-1MS	V27271.D	92	98	101
MC27745-1MSD	V27272.D	93	98	100
MSV1029-BS	V27247.D	96	99	99
MSV1029-MB	V27251.D	103	98	104

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	70-130%
S2 = Toluene-D8	70-130%
S3 = 4-Bromofluorobenzene	70-130%

GC/MS Semi-volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC27745
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36591-MB	F71269.D	1	01/21/14	KR	01/20/14	OP36591	MSF3176

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC27745-1, MC27745-2, MC27745-3, MC27745-4, MC27745-5, MC27745-6, MC27745-7

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.38	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.49	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.33	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	ND	10	1.3	ug/l	
	3&4-Methylphenol	ND	10	2.0	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.50	ug/l	
100-02-7	4-Nitrophenol	ND	20	0.58	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	ND	5.0	0.51	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.57	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.32	ug/l	
62-53-3	Aniline	ND	10	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.20	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.85	ug/l	
100-51-6	Benzyl Alcohol	ND	10	0.57	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.92	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.25	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.21	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.23	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.13	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.20	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.65	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.68	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.64	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.50	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.39	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	0.43	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	0.50	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.50	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.49	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.30	ug/l	

Method Blank Summary

Job Number: MC27745
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36591-MB	F71269.D	1	01/21/14	KR	01/20/14	OP36591	MSF3176

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC27745-1, MC27745-2, MC27745-3, MC27745-4, MC27745-5, MC27745-6, MC27745-7

CAS No.	Compound	Result	RL	MDL	Units	Q
77-47-4	Hexachlorocyclopentadiene	ND	10	2.5	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.44	ug/l	
78-59-1	Isophorone	ND	5.0	0.20	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.50	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.3	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.25	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.0	0.50	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.81	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.54	ug/l	
110-86-1	Pyridine	ND	10	0.52	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	36%	15-110%
4165-62-2	Phenol-d5	26%	15-110%
118-79-6	2,4,6-Tribromophenol	64%	15-110%
4165-60-0	Nitrobenzene-d5	56%	30-130%
321-60-8	2-Fluorobiphenyl	60%	30-130%
1718-51-0	Terphenyl-d14	83%	30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

Method Blank Summary

Job Number: MC27745
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36592-MB	R36652.D	1	01/22/14	KR	01/20/14	OP36592	MSR1350

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

MC27745-1, MC27745-2, MC27745-3, MC27745-4, MC27745-5, MC27745-6, MC27745-7

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.069	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.050	ug/l	
120-12-7	Anthracene	ND	0.10	0.092	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	0.020	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.029	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	0.032	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.027	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.039	ug/l	
218-01-9	Chrysene	ND	0.10	0.024	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.032	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.041	ug/l	
86-73-7	Fluorene	ND	0.10	0.099	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.031	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.20	0.050	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.20	0.074	ug/l	
85-01-8	Phenanthrene	ND	0.050	0.013	ug/l	
129-00-0	Pyrene	ND	0.10	0.038	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	84%	30-130%
321-60-8	2-Fluorobiphenyl	66%	30-130%
1718-51-0	Terphenyl-d14	75%	30-130%

Blank Spike Summary

Job Number: MC27745
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36592-BS	R36653.D	1	01/22/14	KR	01/20/14	OP36592	MSR1350

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

MC27745-1, MC27745-2, MC27745-3, MC27745-4, MC27745-5, MC27745-6, MC27745-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	50	43.5	87	40-140
208-96-8	Acenaphthylene	50	34.2	68	40-140
120-12-7	Anthracene	50	44.7	89	40-140
56-55-3	Benzo(a)anthracene	50	56.0	112	40-140
50-32-8	Benzo(a)pyrene	50	41.1	82	40-140
205-99-2	Benzo(b)fluoranthene	50	46.5	93	40-140
191-24-2	Benzo(g,h,i)perylene	50	47.4	95	40-140
207-08-9	Benzo(k)fluoranthene	50	48.1	96	40-140
218-01-9	Chrysene	50	49.1	98	40-140
53-70-3	Dibenzo(a,h)anthracene	50	49.3	99	40-140
206-44-0	Fluoranthene	50	52.4	105	40-140
86-73-7	Fluorene	50	45.7	91	40-140
193-39-5	Indeno(1,2,3-cd)pyrene	50	48.8	98	40-140
90-12-0	1-Methylnaphthalene	50	38.5	77	40-140
91-57-6	2-Methylnaphthalene	50	37.3	75	40-140
85-01-8	Phenanthrene	50	46.2	92	40-140
129-00-0	Pyrene	50	52.1	104	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	86%	30-130%
321-60-8	2-Fluorobiphenyl	70%	30-130%
1718-51-0	Terphenyl-d14	73%	30-130%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC27745
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36591-BS	F71270.D	1	01/21/14	KR	01/20/14	OP36591	MSF3176
OP36591-BSD	F71271.D	1	01/21/14	KR	01/20/14	OP36591	MSF3176

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC27745-1, MC27745-2, MC27745-3, MC27745-4, MC27745-5, MC27745-6, MC27745-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	50	10.6	21* [a]	10.8	22* [a]	2	30-130/20
95-57-8	2-Chlorophenol	50	35.9	72	31.3	63	14	30-130/20
59-50-7	4-Chloro-3-methyl phenol	50	32.5	65	31.2	62	4	30-130/20
120-83-2	2,4-Dichlorophenol	50	34.6	69	33.5	67	3	30-130/20
105-67-9	2,4-Dimethylphenol	50	28.4	57	26.1	52	8	30-130/20
51-28-5	2,4-Dinitrophenol	50	41.6	83	49.7	99	18	30-130/20
534-52-1	4,6-Dinitro-o-cresol	50	61.6	123	58.9	118	4	30-130/20
95-48-7	2-Methylphenol	50	30.8	62	26.8	54	14	30-130/20
	3&4-Methylphenol	100	57.0	57	50.5	51	12	30-130/20
88-75-5	2-Nitrophenol	50	40.2	80	36.8	74	9	30-130/20
100-02-7	4-Nitrophenol	50	15.2	30	13.6	27* [a]	11	30-130/20
87-86-5	Pentachlorophenol	50	39.1	78	38.1	76	3	30-130/20
108-95-2	Phenol	50	15.3	31	14.5	29* [a]	5	30-130/20
95-95-4	2,4,5-Trichlorophenol	50	34.8	70	33.9	68	3	30-130/20
88-06-2	2,4,6-Trichlorophenol	50	36.3	73	33.5	67	8	30-130/20
62-53-3	Aniline	50	23.3	47	22.4	45	4	40-140/20
101-55-3	4-Bromophenyl phenyl ether	50	43.3	87	39.7	79	9	40-140/20
85-68-7	Butyl benzyl phthalate	50	50.9	102	47.1	94	8	40-140/20
100-51-6	Benzyl Alcohol	50	40.5	81	36.6	73	10	40-140/20
91-58-7	2-Chloronaphthalene	50	39.8	80	37.1	74	7	40-140/20
106-47-8	4-Chloroaniline	50	34.9	70	33.7	67	3	40-140/20
111-91-1	bis(2-Chloroethoxy)methane	50	37.1	74	35.2	70	5	40-140/20
111-44-4	bis(2-Chloroethyl)ether	50	35.6	71	32.3	65	10	40-140/20
108-60-1	bis(2-Chloroisopropyl)ether	50	52.4	105	46.8	94	11	40-140/20
7005-72-3	4-Chlorophenyl phenyl ether	50	40.2	80	37.2	74	8	40-140/20
122-66-7	1,2-Diphenylhydrazine	50	36.0	72	33.0	66	9	40-140/20
121-14-2	2,4-Dinitrotoluene	50	46.6	93	44.4	89	5	40-140/20
606-20-2	2,6-Dinitrotoluene	50	44.4	89	41.5	83	7	40-140/20
91-94-1	3,3'-Dichlorobenzidine	50	43.0	86	39.7	79	8	40-140/20
132-64-9	Dibenzofuran	50	39.5	79	37.1	74	6	40-140/20
84-74-2	Di-n-butyl phthalate	50	44.1	88	41.2	82	7	40-140/20
117-84-0	Di-n-octyl phthalate	50	53.2	106	49.8	100	7	40-140/20
84-66-2	Diethyl phthalate	50	40.4	81	38.6	77	5	40-140/20
131-11-3	Dimethyl phthalate	50	34.3	69	35.3	71	3	40-140/20
117-81-7	bis(2-Ethylhexyl)phthalate	50	54.3	109	49.5	99	9	40-140/20
118-74-1	Hexachlorobenzene	50	42.1	84	39.6	79	6	40-140/20

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC27745
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36591-BS	F71270.D	1	01/21/14	KR	01/20/14	OP36591	MSF3176
OP36591-BSD	F71271.D	1	01/21/14	KR	01/20/14	OP36591	MSF3176

The QC reported here applies to the following samples: Method: SW846 8270D

MC27745-1, MC27745-2, MC27745-3, MC27745-4, MC27745-5, MC27745-6, MC27745-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
77-47-4	Hexachlorocyclopentadiene	50	17.0	34* [a]	16.3	33* [a]	4	40-140/20
67-72-1	Hexachloroethane	50	23.9	48	21.1	42	12	40-140/20
78-59-1	Isophorone	50	36.4	73	33.8	68	7	40-140/20
88-74-4	2-Nitroaniline	50	43.2	86	41.8	84	3	40-140/20
99-09-2	3-Nitroaniline	50	41.3	83	40.3	81	2	40-140/20
100-01-6	4-Nitroaniline	50	42.0	84	41.4	83	1	40-140/20
98-95-3	Nitrobenzene	50	33.5	67	31.7	63	6	40-140/20
62-75-9	n-Nitrosodimethylamine	50	20.2	40	19.2	38* [a]	5	40-140/20
621-64-7	N-Nitroso-di-n-propylamine	50	37.9	76	34.5	69	9	40-140/20
86-30-6	N-Nitrosodiphenylamine	50	43.2	86	40.5	81	6	40-140/20
110-86-1	Pyridine	50	18.3	37* [a]	16.4	33* [a]	11	40-140/20

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
367-12-4	2-Fluorophenol	38%	37%	15-110%
4165-62-2	Phenol-d5	28%	26%	15-110%
118-79-6	2,4,6-Tribromophenol	82%	75%	15-110%
4165-60-0	Nitrobenzene-d5	59%	55%	30-130%
321-60-8	2-Fluorobiphenyl	65%	60%	30-130%
1718-51-0	Terphenyl-d14	84%	76%	30-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27745
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36591-MS	F71272.D	1	01/21/14	KR	01/20/14	OP36591	MSF3176
OP36591-MSD	F71273.D	1	01/21/14	KR	01/20/14	OP36591	MSF3176
MC27500-10	F71274.D	1	01/21/14	KR	01/20/14	OP36591	MSF3176

The QC reported here applies to the following samples: Method: SW846 8270D

MC27745-1, MC27745-2, MC27745-3, MC27745-4, MC27745-5, MC27745-6, MC27745-7

CAS No.	Compound	MC27500-10 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		50	10.6	21* [a]	50	11.2	22* [a]	6	30-130/20
95-57-8	2-Chlorophenol	ND		50	34.1	68	50	32.2	64	6	30-130/20
59-50-7	4-Chloro-3-methyl phenol	ND		50	31.6	63	50	31.9	64	1	30-130/20
120-83-2	2,4-Dichlorophenol	ND		50	33.0	66	50	33.8	68	2	30-130/20
105-67-9	2,4-Dimethylphenol	ND		50	25.7	51	50	25.3	51	2	30-130/20
51-28-5	2,4-Dinitrophenol	ND		50	43.7	87	50	51.2	102	16	30-130/20
534-52-1	4,6-Dinitro-o-cresol	ND		50	62.2	124	50	62.1	124	0	30-130/20
95-48-7	2-Methylphenol	ND		50	29.1	58	50	26.9	54	8	30-130/20
	3&4-Methylphenol	ND		100	56.3	56	100	52.1	52	8	30-130/20
88-75-5	2-Nitrophenol	ND		50	38.3	77	50	38.6	77	1	30-130/20
100-02-7	4-Nitrophenol	ND		50	13.9	28* [b]	50	13.8	28* [b]	1	30-130/20
87-86-5	Pentachlorophenol	ND		50	38.8	78	50	39.1	78	1	30-130/20
108-95-2	Phenol	ND		50	15.0	30	50	14.5	29* [b]	3	30-130/20
95-95-4	2,4,5-Trichlorophenol	ND		50	33.4	67	50	34.3	69	3	30-130/20
88-06-2	2,4,6-Trichlorophenol	ND		50	33.7	67	50	34.3	69	2	30-130/20
62-53-3	Aniline	ND		50	22.3	45	50	21.9	44	2	40-140/20
101-55-3	4-Bromophenyl phenyl ether	ND		50	39.4	79	50	39.2	78	1	40-140/20
85-68-7	Butyl benzyl phthalate	ND		50	47.1	94	50	46.8	94	1	40-140/20
100-51-6	Benzyl Alcohol	ND		50	37.7	75	50	37.5	75	1	40-140/20
91-58-7	2-Chloronaphthalene	ND		50	37.0	74	50	36.3	73	2	40-140/20
106-47-8	4-Chloroaniline	ND		50	32.5	65	50	33.7	67	4	40-140/20
111-91-1	bis(2-Chloroethoxy)methane	ND		50	34.9	70	50	34.6	69	1	40-140/20
111-44-4	bis(2-Chloroethyl)ether	ND		50	33.7	67	50	32.0	64	5	40-140/20
108-60-1	bis(2-Chloroisopropyl)ether	ND		50	48.3	97	50	46.7	93	3	40-140/20
7005-72-3	4-Chlorophenyl phenyl ether	ND		50	36.2	72	50	36.2	72	0	40-140/20
122-66-7	1,2-Diphenylhydrazine	ND		50	33.2	66	50	32.5	65	2	40-140/20
121-14-2	2,4-Dinitrotoluene	ND		50	43.9	88	50	43.2	86	2	40-140/20
606-20-2	2,6-Dinitrotoluene	ND		50	41.5	83	50	40.7	81	2	40-140/20
91-94-1	3,3'-Dichlorobenzidine	ND		50	37.5	75	50	39.0	78	4	40-140/20
132-64-9	Dibenzofuran	ND		50	37.1	74	50	36.3	73	2	40-140/20
84-74-2	Di-n-butyl phthalate	ND		50	42.4	85	50	39.6	79	7	40-140/20
117-84-0	Di-n-octyl phthalate	ND		50	49.6	99	50	47.6	95	4	40-140/20
84-66-2	Diethyl phthalate	ND		50	37.7	75	50	36.9	74	2	40-140/20
131-11-3	Dimethyl phthalate	ND		50	32.8	66	50	32.1	64	2	40-140/20
117-81-7	bis(2-Ethylhexyl)phthalate	1.1	J	50	49.0	96	50	48.3	94	1	40-140/20
118-74-1	Hexachlorobenzene	ND		50	39.4	79	50	38.3	77	3	40-140/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27745
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36591-MS	F71272.D	1	01/21/14	KR	01/20/14	OP36591	MSF3176
OP36591-MSD	F71273.D	1	01/21/14	KR	01/20/14	OP36591	MSF3176
MC27500-10	F71274.D	1	01/21/14	KR	01/20/14	OP36591	MSF3176

The QC reported here applies to the following samples: Method: SW846 8270D

MC27745-1, MC27745-2, MC27745-3, MC27745-4, MC27745-5, MC27745-6, MC27745-7

CAS No.	Compound	MC27500-10 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
77-47-4	Hexachlorocyclopentadiene	ND		50	15.7	31* b	50	15.7	31* b	0	40-140/20
67-72-1	Hexachloroethane	ND		50	22.5	45	50	22.0	44	2	40-140/20
78-59-1	Isophorone	ND		50	34.1	68	50	33.7	67	1	40-140/20
88-74-4	2-Nitroaniline	ND		50	42.2	84	50	41.6	83	1	40-140/20
99-09-2	3-Nitroaniline	ND		50	37.9	76	50	37.4	75	1	40-140/20
100-01-6	4-Nitroaniline	ND		50	38.5	77	50	38.9	78	1	40-140/20
98-95-3	Nitrobenzene	ND		50	31.6	63	50	31.6	63	0	40-140/20
62-75-9	n-Nitrosodimethylamine	ND		50	19.8	40	50	19.3	39* a	3	40-140/20
621-64-7	N-Nitroso-di-n-propylamine	ND		50	35.2	70	50	34.0	68	3	40-140/20
86-30-6	N-Nitrosodiphenylamine	ND		50	40.1	80	50	39.2	78	2	40-140/20
110-86-1	Pyridine	ND		50	16.6	33* b	50	16.2	32* b	2	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC27500-10	Limits
367-12-4	2-Fluorophenol	35%	35%	35%	15-110%
4165-62-2	Phenol-d5	26%	26%	24%	15-110%
118-79-6	2,4,6-Tribromophenol	74%	77%	64%	15-110%
4165-60-0	Nitrobenzene-d5	54%	55%	51%	30-130%
321-60-8	2-Fluorobiphenyl	59%	58%	59%	30-130%
1718-51-0	Terphenyl-d14	75%	76%	79%	30-130%

(a) Outside control limits. Blank Spike meets program technical requirements.
(b) Outside control limits due to possible matrix interference. Refer to Blank Spike.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27745
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36592-MS	R36655.D	1	01/22/14	KR	01/20/14	OP36592	MSR1350
OP36592-MSD	R36656.D	1	01/22/14	KR	01/20/14	OP36592	MSR1350
MC27500-12	R36657.D	1	01/22/14	KR	01/20/14	OP36592	MSR1350

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

MC27745-1, MC27745-2, MC27745-3, MC27745-4, MC27745-5, MC27745-6, MC27745-7

CAS No.	Compound	MC27500-12 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND		50	40.0	80	50	39.5	79	1	40-140/20
208-96-8	Acenaphthylene	ND		50	31.3	63	50	30.9	62	1	40-140/20
120-12-7	Anthracene	ND		50	41.4	83	50	40.6	81	2	40-140/20
56-55-3	Benzo(a)anthracene	ND		50	51.2	102	50	50.2	100	2	40-140/20
50-32-8	Benzo(a)pyrene	ND		50	38.6	77	50	37.4	75	3	40-140/20
205-99-2	Benzo(b)fluoranthene	ND		50	44.6	89	50	41.9	84	6	40-140/20
191-24-2	Benzo(g,h,i)perylene	ND		50	44.4	89	50	43.3	87	3	40-140/20
207-08-9	Benzo(k)fluoranthene	ND		50	44.5	89	50	41.8	84	6	40-140/20
218-01-9	Chrysene	ND		50	45.2	90	50	44.0	88	3	40-140/20
53-70-3	Dibenzo(a,h)anthracene	ND		50	46.3	93	50	44.9	90	3	40-140/20
206-44-0	Fluoranthene	ND		50	47.8	96	50	46.7	93	2	40-140/20
86-73-7	Fluorene	ND		50	42.0	84	50	41.8	84	0	40-140/20
193-39-5	Indeno(1,2,3-cd)pyrene	ND		50	45.7	91	50	44.3	89	3	40-140/20
90-12-0	1-Methylnaphthalene	ND		50	35.4	71	50	34.7	69	2	40-140/20
91-57-6	2-Methylnaphthalene	ND		50	34.2	68	50	33.5	67	2	40-140/20
85-01-8	Phenanthrene	0.026	J	50	42.9	86	50	42.0	84	2	40-140/20
129-00-0	Pyrene	ND		50	47.7	95	50	46.7	93	2	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC27500-12	Limits
4165-60-0	Nitrobenzene-d5	78%	77%	75%	30-130%
321-60-8	2-Fluorobiphenyl	62%	63%	61%	30-130%
1718-51-0	Terphenyl-d14	67%	67%	70%	30-130%

* = Outside of Control Limits.

Semivolatile Internal Standard Area Summary

Job Number: MC27745
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSF3176-CC3146	**Injection Date:**	01/21/14
Lab File ID:	F71258.D	**Injection Time:**	11:29
Instrument ID:	GCMSF	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	134343	4.08	508164	5.13	313472	6.65	543584	7.93	625075	10.49	593512	12.18
Upper Limit [a]	268686	4.58	1016328	5.63	626944	7.15	1087168	8.43	1250150	10.99	1187024	12.68
Lower Limit [b]	67172	3.58	254082	4.63	156736	6.15	271792	7.43	312538	9.99	296756	11.68

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP36593-MB	116263	4.07	434484	5.12	261652	6.64	459513	7.93	505787	10.49	468578	12.18
OP36593-BS	122491	4.07	454915	5.13	271804	6.65	471315	7.93	536523	10.48	510591	12.18
OP36593-MS	129516	4.08	470461	5.13	288482	6.65	493460	7.93	548411	10.49	513247	12.18
OP36593-MSD	121115	4.07	444375	5.12	273974	6.65	478583	7.93	545613	10.49	524019	12.18
MC27515-1	107713	4.07	412586	5.12	250236	6.65	453904	7.93	503300	10.48	480565	12.18
ZZZZZZ	101322	4.07	389676	5.12	243069	6.64	448338	7.93	523405	10.49	506143	12.18
ZZZZZZ	131816	4.07	509296	5.12	317993	6.65	581516	7.93	675063	10.48	655354	12.18
ZZZZZZ	107509	4.07	398769	5.13	248047	6.65	443508	7.93	488925	10.48	462930	12.18
ZZZZZZ	82645	4.07	327178	5.13	204958	6.65	377786	7.93	436377	10.48	429013	12.18
ZZZZZZ	88956	4.07	348933	5.12	221942	6.65	407590	7.93	471353	10.48	448357	12.18
OP36604-MB	84419	4.07	331457	5.13	208956	6.65	384239	7.93	442396	10.48	423318	12.18
OP36591-MB	84419	4.07	331457	5.13	208956	6.65	384239	7.93	442396	10.48	423318	12.18
OP36591-BS	98478	4.07	375628	5.13	233437	6.65	408775	7.93	473511	10.48	452303	12.18
OP36604-BS	98478	4.07	375628	5.13	233437	6.65	408775	7.93	473511	10.48	452303	12.18
OP36591-BSD	115754	4.08	429834	5.13	264533	6.65	470914	7.93	540759	10.49	508844	12.18
OP36604-BSD	115754	4.08	429834	5.13	264533	6.65	470914	7.93	540759	10.49	508844	12.18
OP36591-MS	101040	4.07	392212	5.13	242515	6.65	428938	7.93	507179	10.49	475625	12.18
OP36591-MSD	126858	4.07	470562	5.12	293740	6.65	522616	7.93	582107	10.49	559831	12.18
MC27500-10	121793	4.07	465911	5.13	277333	6.65	501569	7.93	552400	10.48	525941	12.18
ZZZZZZ	115629	4.07	441451	5.13	275074	6.65	511447	7.93	596455	10.49	592216	12.18
ZZZZZZ	110314	4.07	421463	5.13	256509	6.65	460794	7.93	512973	10.48	494434	12.18
ZZZZZZ	106911	4.07	415565	5.13	251128	6.65	444529	7.93	508396	10.48	501063	12.18
MC27745-1	101013	4.07	384298	5.13	237630	6.65	435218	7.93	488601	10.48	473470	12.18
MC27745-2	115128	4.07	438450	5.13	270241	6.65	492356	7.93	567034	10.49	551584	12.18
MC27745-3	109165	4.07	422219	5.12	264533	6.65	464957	7.93	551039	10.48	535135	12.18
MC27745-4	118212	4.07	470643	5.13	296186	6.65	536500	7.93	611489	10.48	596223	12.18
MC27745-5	106288	4.07	401273	5.12	252679	6.65	436510	7.93	530516	10.49	530396	12.18
MC27745-6	123180	4.07	468129	5.13	289213	6.65	507603	7.93	599413	10.49	604256	12.18
MC27745-7	138882	4.07	529267	5.13	334569	6.65	591132	7.93	697980	10.48	678355	12.18
ZZZZZZ	108388	4.07	438499	5.13	254693	6.65	514048	7.93	580211	10.49	583220	12.18
ZZZZZZ	102050	4.07	404982	5.13	233438	6.65	451573	7.93	525308	10.48	522216	12.18
ZZZZZZ	113227	4.07	446720	5.12	256435	6.65	494887	7.93	583150	10.49	577219	12.18
ZZZZZZ	119245	4.07	461247	5.13	269648	6.65	520945	7.93	620267	10.48	620275	12.18

IS 1 = 1,4-Dichlorobenzene-d4

Semivolatile Internal Standard Area Summary

Job Number: MC27745
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSF3176-CC3146	Injection Date:	01/21/14
Lab File ID:	F71258.D	Injection Time:	11:29
Instrument ID:	GCMSF	Method:	SW846 8270D

Lab Sample ID	IS 1 AREA	IS 1 RT	IS 2 AREA	IS 2 RT	IS 3 AREA	IS 3 RT	IS 4 AREA	IS 4 RT	IS 5 AREA	IS 5 RT	IS 6 AREA	IS 6 RT

IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC27745
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSR1350-CC1261	**Injection Date:**	01/22/14
Lab File ID:	R36651.D	**Injection Time:**	09:47
Instrument ID:	GCMSR	**Method:**	SW846 8270D BY SIM

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Check Std	596831	4.35	1941097	5.41	1097421	6.95	1781798	8.37	1311798	11.14	2401330	12.65
Upper Limit [a]	1193662	4.85	3882194	5.91	2194842	7.45	3563596	8.87	2623596	11.64	4802660	13.15
Lower Limit [b]	298416	3.85	970549	4.91	548711	6.45	890899	7.87	655899	10.64	1200665	12.15
Lab Sample ID	**IS 1 AREA**	**RT**	**IS 2 AREA**	**RT**	**IS 3 AREA**	**RT**	**IS 4 AREA**	**RT**	**IS 5 AREA**	**RT**	**IS 6 AREA**	**RT**
OP36592-MB	615044	4.35	1959176	5.41	1125749	6.95	1836240	8.37	1350779	11.14	2446458	12.65
OP36592-BS	642624	4.35	2046983	5.41	1164256	6.95	1875022	8.37	1405916	11.15	2521712	12.65
OP36592-MS	637277	4.35	2052168	5.41	1183988	6.95	1912941	8.37	1465368	11.15	2556589	12.65
OP36592-MSD	653852	4.35	2099288	5.41	1204948	6.95	1953088	8.37	1495307	11.15	2602685	12.65
MC27500-12	620922	4.35	1993295	5.41	1154336	6.95	1889604	8.37	1396963	11.14	2540951	12.65
ZZZZZZ	486750	4.35	1555293	5.41	887470	6.95	1438165	8.37	1088363	11.14	2019905	12.65
ZZZZZZ	522851	4.35	1673519	5.41	957130	6.95	1555562	8.37	1153292	11.14	2107090	12.65
MC27745-1	588316	4.35	1901295	5.41	1101406	6.95	1804294	8.37	1338597	11.14	2440303	12.65
MC27745-2	617157	4.35	1983211	5.41	1143727	6.95	1852328	8.37	1363522	11.14	2477869	12.65
MC27745-3	651147	4.35	2079956	5.41	1199348	6.95	1953156	8.37	1427107	11.14	2594244	12.65
MC27745-4	644432	4.35	2062434	5.41	1199388	6.95	1966841	8.37	1481101	11.14	2731013	12.65
MC27745-5	606493	4.35	1955197	5.41	1144416	6.95	1959635	8.38	1488301	11.15	2703081	12.66
MC27745-6	653097	4.35	2073014	5.41	1205369	6.95	2021345	8.37	1520727	11.15	2805308	12.66
MC27745-7	646221	4.35	2063945	5.41	1195089	6.95	1959093	8.37	1468729	11.14	2698174	12.65
ZZZZZZ	501797	4.35	1595864	5.41	913939	6.95	1481891	8.37	1109901	11.14	2056369	12.65
ZZZZZZ	451770	4.35	1445504	5.41	825572	6.95	1346617	8.37	1050051	11.14	1946914	12.65
ZZZZZZ	488148	4.35	1570834	5.41	900646	6.95	1467259	8.37	1125851	11.14	2061209	12.65
ZZZZZZ	514031	4.35	1633937	5.41	932568	6.95	1510923	8.37	1168355	11.14	2128612	12.65

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC27745
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSW766-CC729	**Injection Date:**	01/29/14
Lab File ID:	W17427.D	**Injection Time:**	07:28
Instrument ID:	GCMSW	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	58298	4.47	220682	5.54	150861	7.08	259343	8.38	266543	11.08	243310	12.86
Upper Limit [a]	116596	4.97	441364	6.04	301722	7.58	518686	8.88	533086	11.58	486620	13.36
Lower Limit [b]	29149	3.97	110341	5.04	75431	6.58	129672	7.88	133272	10.58	121655	12.36

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP36652-MB	60792	4.47	225349	5.53	151942	7.08	253325	8.37	253917	11.08	236094	12.85
OP36652-BS	60215	4.47	220576	5.54	147686	7.08	256663	8.37	250177	11.08	228918	12.85
OP36652-MS	58080	4.47	212484	5.54	140662	7.08	244104	8.37	239065	11.08	218464	12.85
OP36652-MSD	62695	4.47	232127	5.54	155212	7.08	262624	8.37	261207	11.08	241944	12.85
MC27500-23	63224	4.47	238070	5.54	158607	7.08	273509	8.37	268697	11.08	253727	12.85
OP36688-MB	67588	4.47	250359	5.53	167692	7.08	279360	8.37	266344	11.08	240893	12.85
OP36688-BS	71174	4.47	264933	5.54	174277	7.08	287753	8.38	272508	11.08	247611	12.85
ZZZZZZ	64927	4.47	235983	5.53	151710	7.08	253360	8.37	228584	11.08	201993	12.85
ZZZZZZ	58374	4.47	215792	5.53	143816	7.08	238029	8.37	240010	11.08	225891	12.85
MC27745-7 [c]	62062	4.47	228203	5.53	148291	7.08	248497	8.37	244505	11.08	232108	12.85
OP36679-MB	62128	4.47	229071	5.53	152600	7.08	259121	8.37	254909	11.08	241274	12.85
OP36679-BS	63196	4.47	233406	5.54	156001	7.08	263963	8.37	255257	11.08	242735	12.85
ZZZZZZ	65602	4.47	242036	5.53	161933	7.08	272438	8.37	267153	11.08	255143	12.85
ZZZZZZ	66056	4.47	244694	5.53	163229	7.08	270676	8.37	265338	11.08	249514	12.85
ZZZZZZ	62028	4.47	234468	5.53	154033	7.08	260005	8.37	267622	11.08	247047	12.85
OP36678-MB	59445	4.47	220292	5.53	144019	7.08	243236	8.37	237610	11.08	223925	12.85
OP36666-MB	59445	4.47	220292	5.53	144019	7.08	243236	8.37	237610	11.08	223925	12.85
OP36678-BS	61534	4.47	221397	5.54	146713	7.08	246662	8.37	244089	11.08	228575	12.85
OP36666-BS	61534	4.47	221397	5.54	146713	7.08	246662	8.37	244089	11.08	228575	12.85
OP36666-BSD	63939	4.47	233986	5.54	152659	7.08	263868	8.37	255904	11.08	240028	12.85
ZZZZZZ	62056	4.47	225175	5.53	147479	7.08	246231	8.37	247144	11.07	233285	12.85

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Confirmation run.

Semivolatile Surrogate Recovery Summary

Job Number: MC27745
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Method: SW846 8270D **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
MC27745-1	F71279.D	32	23	63	55	60	67
MC27745-2	F71280.D	33	23	68	49	58	61
MC27745-3	F71281.D	27	21	74	50	57	77
MC27745-4	F71282.D	25	18	50	36	41	74
MC27745-5	F71283.D	38	31	84	52	59	72
MC27745-6	F71284.D	38	30	79	50	57	70
MC27745-7	W17437.D	2* [a]	1* [a]	21	70	75	95
MC27745-7	F71285.D	1* [a]	2* [a]	20	44	50	66
OP36591-BS	F71270.D	38	28	82	59	65	84
OP36591-BSD	F71271.D	37	26	75	55	60	76
OP36591-MB	F71269.D	36	26	64	56	60	83
OP36591-MS	F71272.D	35	26	74	54	59	75
OP36591-MSD	F71273.D	35	26	77	55	58	76

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	15-110%
S2 = Phenol-d5	15-110%
S3 = 2,4,6-Tribromophenol	15-110%
S4 = Nitrobenzene-d5	30-130%
S5 = 2-Fluorobiphenyl	30-130%
S6 = Terphenyl-d14	30-130%

(a) Outside control limits due to possible matrix interference. Confirmed by re-extraction/reanalysis.

Semivolatile Surrogate Recovery Summary

Job Number: MC27745
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Method: SW846 8270D BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC27745-1	R36660.D	81	64	60
MC27745-2	R36661.D	76	60	56
MC27745-3	R36662.D	75	61	72
MC27745-4	R36663.D	54	43	67
MC27745-5	R36664.D	77	62	67
MC27745-6	R36665.D	74	60	64
MC27745-7	R36666.D	65	53	59
OP36592-BS	R36653.D	86	70	73
OP36592-MB	R36652.D	84	66	75
OP36592-MS	R36655.D	78	62	67
OP36592-MSD	R36656.D	77	63	67

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	30-130%
S2 = 2-Fluorobiphenyl	30-130%
S3 = Terphenyl-d14	30-130%

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries

Method Blank Summary

Job Number: MC27745
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36605-MB	YZ87631.D	1	01/21/14	CZ	01/20/14	OP36605	GYZ7475

The QC reported here applies to the following samples: **Method:** SW846 8011

MC27745-1, MC27745-2, MC27745-3, MC27745-4, MC27745-5, MC27745-6, MC27745-7, MC27745-9

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0054	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.011	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	Bromofluorobenzene (S)	123%	36-173%
460-00-4	Bromofluorobenzene (S)	107%	36-173%

Blank Spike Summary

Job Number: MC27745
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36605-BS	YZ87632.D	1	01/21/14	CZ	01/20/14	OP36605	GYZ7475

The QC reported here applies to the following samples: **Method:** SW846 8011

MC27745-1, MC27745-2, MC27745-3, MC27745-4, MC27745-5, MC27745-6, MC27745-7, MC27745-9

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
96-12-8	1,2-Dibromo-3-chloropropane	0.071	0.092	130	60-140
106-93-4	1,2-Dibromoethane	0.071	0.078	110	60-140

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	Bromofluorobenzene (S)	127%	36-173%
460-00-4	Bromofluorobenzene (S)	102%	36-173%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27745
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36605-MS	YZ87633.D	1	01/21/14	CZ	01/20/14	OP36605	GYZ7475
OP36605-MSD	YZ87634.D	1	01/21/14	CZ	01/20/14	OP36605	GYZ7475
MC27500-13	YZ87635.D	1	01/21/14	CZ	01/20/14	OP36605	GYZ7475

The QC reported here applies to the following samples: **Method:** SW846 8011

MC27745-1, MC27745-2, MC27745-3, MC27745-4, MC27745-5, MC27745-6, MC27745-7, MC27745-9

CAS No.	Compound	MC27500-13 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
96-12-8	1,2-Dibromo-3-chloropropane	ND		0.071	0.091	128	0.071	0.080	113	13	64-141/29
106-93-4	1,2-Dibromoethane	ND		0.071	0.078	110	0.071	0.071	100	9	63-163/27

CAS No.	Surrogate Recoveries	MS	MSD	MC27500-13	Limits
460-00-4	Bromofluorobenzene (S)	124%	98%	110%	36-173%
460-00-4	Bromofluorobenzene (S)	117%	90%	101%	36-173%

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: MC27745
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Method: SW846 8011 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]
MC27745-1	YZ87638.D	111	96
MC27745-2	YZ87639.D	95	74
MC27745-3	YZ87640.D	98	82
MC27745-4	YZ87642.D	121	107
MC27745-5	YZ87643.D	120	85
MC27745-6	YZ87644.D	111	86
MC27745-7	YZ87645.D	108	95
MC27745-9	YZ87646.D	84	73
OP36605-BS	YZ87632.D	127	102
OP36605-MB	YZ87631.D	123	107
OP36605-MS	YZ87633.D	124	117
OP36605-MSD	YZ87634.D	98	90

Surrogate Compounds	Recovery Limits
S1 = Bromofluorobenzene (S)	36-173%

(a) Recovery from GC signal #2
(b) Recovery from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC27745
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	GYZ7475-ICC7475	**Injection Date:**	01/21/14
Lab File ID:	YZ87626.D	**Injection Time:**	18:08
Instrument ID:	GCYZ	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	3.59	3.46

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
ZZZZZZ	YZ87629A.D	01/21/14	19:23	3.61	3.46
OP36605-MB	YZ87631.D	01/21/14	20:13	3.59	3.46
OP36605-BS	YZ87632.D	01/21/14	20:38	3.59	3.47
OP36605-MS	YZ87633.D	01/21/14	21:04	3.59	3.45
OP36605-MSD	YZ87634.D	01/21/14	21:29	3.59	3.46
MC27500-13	YZ87635.D	01/21/14	21:54	3.59	3.46
ZZZZZZ	YZ87636.D	01/21/14	22:19	3.59	3.45
ZZZZZZ	YZ87637.D	01/21/14	22:44	3.59	3.46
MC27745-1	YZ87638.D	01/21/14	23:10	3.59	3.46
MC27745-2	YZ87639.D	01/21/14	23:35	3.59	3.47
MC27745-3	YZ87640.D	01/22/14	00:00	3.59	3.47

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC27745
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	GYZ7475-CC7475	**Injection Date:**	01/22/14
Lab File ID:	YZ87641.D	**Injection Time:**	00:26
Instrument ID:	GCYZ	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	3.59	3.45

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
MC27745-4	YZ87642.D	01/22/14	00:51	3.59	3.47
MC27745-5	YZ87643.D	01/22/14	01:16	3.59	3.46
MC27745-6	YZ87644.D	01/22/14	01:42	3.59	3.46
MC27745-7	YZ87645.D	01/22/14	02:07	3.59	3.46
MC27745-9	YZ87646.D	01/22/14	02:32	3.59	3.46
ZZZZZZ	YZ87647.D	01/22/14	02:58	3.59	3.47
ZZZZZZ	YZ87648.D	01/22/14	03:23	3.59	3.45
ZZZZZZ	YZ87649.D	01/22/14	03:48	3.59	3.44
ZZZZZZ	YZ87650.D	01/22/14	04:14	3.59	3.47
GYZ7475-ECC7475	YZ87651.D	01/22/14	04:39	3.59	3.46

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

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e-Hardcopy 2.0
Automated Report

Technical Report for

Shell Oil

URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana,

SGS Accutest Job Number: MC27802

Sampling Date: 01/20/14



Report to:

AECOM, INC.

Melissa.mansker@aecom.com

ATTN: Melissa Mansker

Total number of pages in report: 157

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

H. (Brad) Madadian
Lab Director

Client Service contact: Jeremy Vienneau 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO (MA00136) MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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Test results relate only to samples analyzed.

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SGS ACCUTEST

October 28, 2016

AECOM
1001 Highlands Plaza Drive West Suite 300
St. Louis, MO 63110

RE: SGS Accutest Job # MC27802

Dear Elizabeth Kunkel

As you are aware, SGS Accutest Inc. - Marlborough has been conducting an extensive review of data associated with some historical Gas Chromatography-Mass Spectroscopy volatiles analyses. As a result of this review it was determined that some revisions of the original test report for this job were needed. These corrections have been incorporated into the revised report.

Please be assured that corrective actions have been put in place to address this matter and prevent a recurrence.

We apologize for any inconvenience that this issue may have caused. Please don't hesitate to contact us if we can be of further assistance.

Sincerely,

H. (Brad) Madadian

Regional Laboratory Director
SGS Accutest Inc. - Marlborough

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.

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Sample Summary

Shell Oil

Job No: MC27802

URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample Number	Collected Date	Time By	Received	Matrix Code	Matrix Type	Client Sample ID
MC27802-1	01/20/14	00:00	01/21/14	AQ	Ground Water	MW2-ROX-012014
MC27802-2	01/20/14	00:00	01/21/14	AQ	Ground Water	MW22-ROX-012014
MC27802-3	01/20/14	00:00	01/21/14	AQ	Ground Water	MW22-ROX-012014-DUP
MC27802-4	01/20/14	00:00	01/21/14	AQ	Trip Blank Water	TB-ROX-012014-HCL
MC27802-5	01/20/14	00:00	01/21/14	AQ	Trip Blank Water	TB-ROX-012014-ST

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: She O **Job No** MC27802

Site: URSMOSTL:Roxana Q 4 GW/ 2 562973 0300 900 South Centra **Report Date** 0/28/20 6 5:37:57 P

3 Samp e(s), 2 Tr p B ank(s) and 0 F e d B ank(s) were co ected on 0 /20/20 4 and were rece ved at SGS Accutest New Eng and on 0 /2 /20 4 proper y preserved, at Deg C and ntact These Samp es rece ved a job number of MC27802 A st ng of the Laboratory Samp e ID, C ent Samp e ID and dates of co ect on are presented n the Resu ts Summary Sect on of th s repo t - Ch orohexane, Benzeneth o , D benz(a,h)acr d ne, Indene and Qu no ne were searched n the brary search and reported on y f detect ons were found

Except as noted be ow, a method spec f ed ca brat ons and qua ty contro performance cr ter a were met for th s job For more nformat on, p ease refer to QC summary pages

Volatiles by GCMS By Method SW846 8260C

Matrix: AQ **Batch ID:** MSV 029

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC27745- MS, MC27745- MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a
- B ank Sp ke Recove y(s) for 2-Ch oroethy v ny ether, Acro e n are outs de contro m ts
- Matr x Sp ke Recovery(s) for 2-Ch oroethy v ny ether, Acetone, Benzene are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference
- Matr x Sp ke Dup cate Recovery(s) for 2-Ch oroethy v ny ether, Acetone, Acro e n are outs de contro m ts Probab e cause due to matr x nte ference
- MSV 029-BS for 2-Ch oroethy v ny ether, Acro e n: Outs de contro m ts Assoc ated samp es are non-detect for th s compound
- ,4-D oxane, Naphtha ene: Cont nu ng Ca brat on outs de of acceptance cr ter a Samp e resu t may be b ased ow

Matrix: AQ **Batch ID:** MSV 030

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC27830- MS, MC27830- MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a
- B ank Sp ke Recove y(s) for 2-Ch oroethy v ny ether, Acro e n are outs de contro m ts
- Matr x Sp ke Recovery(s) for 2-Ch oroethy v ny ether, Acetone, Acro e n are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference
- Matr x Sp ke Dup cate Recovery(s) for 2-Ch oroethy v ny ether, Acetone, Acro e n are outs de contro m ts Probab e cause due to matr x nte ference
- MSV 030-BS for 2-Ch oroethy v ny ether: Outs de contro m ts Assoc ated samp es are non-detect for th s compound
- Bromoform: Cont nu ng Ca brat on outs de of acceptance cr ter a Samp e resu t may be b ased ow

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP36626

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- A method b anks for th s batch meet method spec f c cr ter a
- Samp e(s) MC27500- 7MS, MC27500- 7MSD were used as the QC samp es nd cated
- B ank Sp ke Recove y(s) for Hexach orocyc opentad ene, Pyr d ne are outs de contro m ts
- Matr x Sp ke Recovery(s) for 2,4-D n tropheno , 4,6-D n tro-o-creso , Hexach orocyc opentad ene are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference
- Matr x Sp ke Dup cate Recovery(s) for Hexach orocyc opentad ene, 2,4-D n tropheno are outs de contro m ts H gh RPD due to poss b e matr x nterference and/or samp e non-homogene ty
- RPD(s) for MSD for 2,4-D n tropheno are outs de contro m ts for samp e OP36626-MSD H gh RPD due to poss b e matr x nterference and/or samp e non-homogene ty
- RPD of OP36626-BSD for Hexach oroethane: Outs de contro m ts Ind v dua sp ke recover es w th n acceptance m ts
- OP36626-BSD Recovery(s) for Hexach orocyc opentad ene are outs de contro m ts

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP36627

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC27500- 8MS, MC27500- 8MSD were used as the QC samp es nd cated
- Samp e(s) MC27802- , MC27802-2, MC27802-3 have compound(s) reported w th a “B” qua f er, nd cat ng ana yte s found n the assoc ated method b ank

Volatiles by GC By Method SW846 8011

Matrix: AQ **Batch ID:** OP36632

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- A method b anks for th s batch meet method spec f c cr ter a
- Samp e(s) MC27500- 9MS, MC27500- 9MSD were used as the QC samp es nd cated
- MC27802-2 for Bromof uorobenzene (S): Outs de contro m ts due to poss b e matr x nterference

SGS Accutest New Eng and ce t f es that a ana ys s were performed w th n method spec f cat on It s further recommended that th s report to be used n ts ent rety The Laborato y D rector for SGS Accutest New Eng and or ass gnee as ver f ed by the s gnature on the cover page has author zed the re ease of th s report(MC27802)

Summary of Hits

Job Number: MC27802
Account: Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL
Collected: 01/20/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC27802-1	MW2-ROX-012014					
Benzene		23.8	0.50	0.45	ug/l	SW846 8260C
n-Butylbenzene		25.4	5.0	0.54	ug/l	SW846 8260C
sec-Butylbenzene		9.6	5.0	0.58	ug/l	SW846 8260C
tert-Butylbenzene		1.5 J	5.0	0.87	ug/l	SW846 8260C
1,1-Dichloroethane		4.3	1.0	0.37	ug/l	SW846 8260C
Ethylbenzene		426	50	19	ug/l	SW846 8260C
Isopropylbenzene		102	5.0	0.64	ug/l	SW846 8260C
p-Isopropyltoluene		10.6	5.0	0.55	ug/l	SW846 8260C
Naphthalene		66.3	5.0	0.79	ug/l	SW846 8260C
n-Propylbenzene		133	5.0	0.59	ug/l	SW846 8260C
Toluene		9.9	1.0	0.46	ug/l	SW846 8260C
1,2,4-Trimethylbenzene		264	5.0	0.47	ug/l	SW846 8260C
1,3,5-Trimethylbenzene		156	5.0	1.1	ug/l	SW846 8260C
m,p-Xylene		486	1.0	0.70	ug/l	SW846 8260C
o-Xylene		30.4	1.0	0.41	ug/l	SW846 8260C
Xylene (total)		516	1.0	0.41	ug/l	SW846 8260C
Acenaphthylene		0.18	0.11	0.053	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene		9.4	0.21	0.053	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		20.8	0.21	0.079	ug/l	SW846 8270D BY SIM
Phenanthrene		0.043 JB	0.053	0.013	ug/l	SW846 8270D BY SIM
MC27802-2	MW22-ROX-012014					
Benzene		1470	25	23	ug/l	SW846 8260C
2-Butanone (MEK)		80.4	5.0	1.6	ug/l	SW846 8260C
n-Butylbenzene		35.7	5.0	0.54	ug/l	SW846 8260C
sec-Butylbenzene		12.8	5.0	0.58	ug/l	SW846 8260C
tert-Butylbenzene		14.7	5.0	0.87	ug/l	SW846 8260C
1,1-Dichloroethane		2.8	1.0	0.37	ug/l	SW846 8260C
Ethylbenzene		3170	50	19	ug/l	SW846 8260C
2-Hexanone		8.2	5.0	2.3	ug/l	SW846 8260C
Isopropylbenzene		169	5.0	0.64	ug/l	SW846 8260C
p-Isopropyltoluene		9.4	5.0	0.55	ug/l	SW846 8260C
4-Methyl-2-pentanone (MIBK)		7.0	5.0	1.3	ug/l	SW846 8260C
Naphthalene		154 J	250	39	ug/l	SW846 8260C
n-Propylbenzene		287	5.0	0.59	ug/l	SW846 8260C
Toluene		5330	50	23	ug/l	SW846 8260C
1,2,4-Trimethylbenzene		1300	250	23	ug/l	SW846 8260C
1,3,5-Trimethylbenzene		298	250	54	ug/l	SW846 8260C
m,p-Xylene		5650	50	35	ug/l	SW846 8260C
o-Xylene		2650	50	20	ug/l	SW846 8260C
Xylene (total)		8290	50	20	ug/l	SW846 8260C
2,4-Dimethylphenol		39.9 J	53	6.1	ug/l	SW846 8270D

Summary of Hits

Job Number: MC27802
Account: Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL
Collected: 01/20/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
2-Methylphenol		12.4 J	53	6.8	ug/l	SW846 8270D
3&4-Methylphenol		31.3 J	53	11	ug/l	SW846 8270D
Phenol		7.1 J	27	2.7	ug/l	SW846 8270D
Acenaphthene		0.15	0.11	0.073	ug/l	SW846 8270D BY SIM
Fluorene		0.17	0.11	0.11	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene		25.8	0.21	0.053	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		45.9	0.21	0.079	ug/l	SW846 8270D BY SIM
Phenanthrene		0.20 B	0.053	0.013	ug/l	SW846 8270D BY SIM
MC27802-3	**MW22-ROX-012014-DUP**					
Benzene		1580	25	23	ug/l	SW846 8260C
2-Butanone (MEK)		81.5	5.0	1.6	ug/l	SW846 8260C
n-Butylbenzene		35.5	5.0	0.54	ug/l	SW846 8260C
sec-Butylbenzene		12.7	5.0	0.58	ug/l	SW846 8260C
tert-Butylbenzene		14.6	5.0	0.87	ug/l	SW846 8260C
Ethylbenzene		3400	50	19	ug/l	SW846 8260C
2-Hexanone		8.8	5.0	2.3	ug/l	SW846 8260C
Isopropylbenzene		169	5.0	0.64	ug/l	SW846 8260C
p-Isopropyltoluene		9.4	5.0	0.55	ug/l	SW846 8260C
4-Methyl-2-pentanone (MIBK)		7.0	5.0	1.3	ug/l	SW846 8260C
Naphthalene		161 J	250	39	ug/l	SW846 8260C
n-Propylbenzene		286	5.0	0.59	ug/l	SW846 8260C
Toluene		5710	50	23	ug/l	SW846 8260C
1,2,4-Trimethylbenzene		1370	250	23	ug/l	SW846 8260C
1,3,5-Trimethylbenzene		398	5.0	1.1	ug/l	SW846 8260C
m,p-Xylene		6010	50	35	ug/l	SW846 8260C
o-Xylene		2810	50	20	ug/l	SW846 8260C
Xylene (total)		8830	50	20	ug/l	SW846 8260C
2,4-Dimethylphenol		36.4 J	54	6.1	ug/l	SW846 8270D
2-Methylphenol		11.8 J	54	6.9	ug/l	SW846 8270D
3&4-Methylphenol		29.6 J	54	11	ug/l	SW846 8270D
Phenol		7.0 J	27	2.8	ug/l	SW846 8270D
Acenaphthene		0.14	0.11	0.074	ug/l	SW846 8270D BY SIM
Fluorene		0.15	0.11	0.11	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene		23.2	0.22	0.054	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		41.6	0.22	0.080	ug/l	SW846 8270D BY SIM
Phenanthrene		0.20 B	0.054	0.014	ug/l	SW846 8270D BY SIM
MC27802-4	**TB-ROX-012014-HCL**					
Acetone		6.4 J	10	2.8	ug/l	SW846 8260C

Summary of Hits

Job Number: MC27802
Account: Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL
Collected: 01/20/14

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC27802-5	TB-ROX-012014-ST					

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW2-ROX-012014		
Lab Sample ID:	MC27802-1	**Date Sampled:**	01/20/14
Matrix:	AQ - Ground Water	**Date Received:**	01/21/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V27293.D	1	01/23/14	AMY	n/a	n/a	MSV1030
Run #2	V27296.D	50	01/23/14	AMY	n/a	n/a	MSV1030

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	23.8	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform [a]	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
104-51-8	n-Butylbenzene	25.4	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	9.6	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	1.5	5.0	0.87	ug/l	J
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	4.3	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW2-ROX-012014		
Lab Sample ID:	MC27802-1	**Date Sampled:**	01/20/14
Matrix:	AQ - Ground Water	**Date Received:**	01/21/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
123-91-1	1,4-Dioxane	ND	25	16	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	426 [b]	50	19	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
98-82-8	Isopropylbenzene	102	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	10.6	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	66.3	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	133	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	9.9	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	264	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	156	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	486	1.0	0.70	ug/l	
95-47-6	o-Xylene	30.4	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	516	1.0	0.41	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW2-ROX-012014		
Lab Sample ID:	MC27802-1	**Date Sampled:**	01/20/14
Matrix:	AQ - Ground Water	**Date Received:**	01/21/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	86%	95%	70-130%
2037-26-5	Toluene-D8	103%	99%	70-130%
460-00-4	4-Bromofluorobenzene	103%	102%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.
(b) Result is from Run# 2

Report of Analysis

Client Sample ID:	MW2-ROX-012014		
Lab Sample ID:	MC27802-1	**Date Sampled:**	01/20/14
Matrix:	AQ - Ground Water	**Date Received:**	01/21/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R36756.D	1	01/28/14	KR	01/22/14	OP36626	MSR1354
Run #2							

	Initial Volume	Final Volume
Run #1	940 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.3	0.41	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.52	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.35	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	1.3	ug/l	
95-48-7	2-Methylphenol	ND	11	1.4	ug/l	
	3&4-Methylphenol	ND	11	2.2	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.53	ug/l	
100-02-7	4-Nitrophenol	ND	21	0.62	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.3	ug/l	
108-95-2	Phenol	ND	5.3	0.54	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.61	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.34	ug/l	
62-53-3	Aniline	ND	11	0.68	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	0.22	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.3	0.91	ug/l	
100-51-6	Benzyl Alcohol	ND	11	0.61	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	0.98	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.27	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	0.22	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	0.25	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	0.14	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	0.21	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.3	0.69	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.72	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.68	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	0.53	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.17	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.3	0.41	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.3	0.46	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW2-ROX-012014		
Lab Sample ID:	MC27802-1	**Date Sampled:**	01/20/14
Matrix:	AQ - Ground Water	**Date Received:**	01/21/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.3	0.53	ug/l	
131-11-3	Dimethyl phthalate	ND	5.3	0.53	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.52	ug/l	
118-74-1	Hexachlorobenzene	ND	5.3	0.32	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.7	ug/l	
67-72-1	Hexachloroethane	ND	5.3	0.47	ug/l	
78-59-1	Isophorone	ND	5.3	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.30	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.53	ug/l	
100-01-6	4-Nitroaniline	ND	11	4.6	ug/l	
98-95-3	Nitrobenzene	ND	5.3	0.26	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.3	0.53	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	0.86	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.58	ug/l	
110-86-1	Pyridine	ND	11	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	44%		15-110%
4165-62-2	Phenol-d5	33%		15-110%
118-79-6	2,4,6-Tribromophenol	80%		15-110%
4165-60-0	Nitrobenzene-d5	81%		30-130%
321-60-8	2-Fluorobiphenyl	65%		30-130%
1718-51-0	Terphenyl-d14	95%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW2-ROX-012014		
Lab Sample ID:	MC27802-1	**Date Sampled:**	01/20/14
Matrix:	AQ - Ground Water	**Date Received:**	01/21/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R36725.D	1	01/27/14	KR	01/22/14	OP36627	MSR1353
Run #2							

	Initial Volume	Final Volume
Run #1	940 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.11	0.073	ug/l	
208-96-8	Acenaphthylene	0.18	0.11	0.053	ug/l	
120-12-7	Anthracene	ND	0.11	0.098	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.053	0.021	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.031	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.053	0.034	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.029	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.041	ug/l	
218-01-9	Chrysene	ND	0.11	0.025	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.034	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.043	ug/l	
86-73-7	Fluorene	ND	0.11	0.11	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.033	ug/l	
90-12-0	1-Methylnaphthalene	9.4	0.21	0.053	ug/l	
91-57-6	2-Methylnaphthalene	20.8	0.21	0.079	ug/l	
85-01-8	Phenanthrene	0.043	0.053	0.013	ug/l	JB
129-00-0	Pyrene	ND	0.11	0.041	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	82%		30-130%
321-60-8	2-Fluorobiphenyl	66%		30-130%
1718-51-0	Terphenyl-d14	89%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW2-ROX-012014		
Lab Sample ID:	MC27802-1	**Date Sampled:**	01/20/14
Matrix:	AQ - Ground Water	**Date Received:**	01/21/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ87727.D	1	01/23/14	CZ	01/23/14	OP36632	GYZ7477
Run #2							

	Initial Volume	Final Volume
Run #1	35.7 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0053	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	146%		36-173%
460-00-4	Bromofluorobenzene (S)	153%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW22-ROX-012014		
Lab Sample ID:	MC27802-2	**Date Sampled:**	01/20/14
Matrix:	AQ - Ground Water	**Date Received:**	01/21/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V27264.D	1	01/22/14	AMY	n/a	n/a	MSV1029
Run #2	V27297.D	50	01/23/14	AMY	n/a	n/a	MSV1030

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	1470 [a]	25	23	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	80.4	5.0	1.6	ug/l	
104-51-8	n-Butylbenzene	35.7	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	12.8	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	14.7	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	2.8	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW22-ROX-012014		
Lab Sample ID:	MC27802-2	**Date Sampled:**	01/20/14
Matrix:	AQ - Ground Water	**Date Received:**	01/21/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
123-91-1	1,4-Dioxane [b]	ND	25	16	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	3170 [a]	50	19	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	8.2	5.0	2.3	ug/l	
98-82-8	Isopropylbenzene	169	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	9.4	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	7.0	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	154 [a]	250	39	ug/l	J
103-65-1	n-Propylbenzene	287	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	5330 [a]	50	23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	1300 [a]	250	23	ug/l	
108-67-8	1,3,5-Trimethylbenzene	298 [a]	250	54	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	5650 [a]	50	35	ug/l	
95-47-6	o-Xylene	2650 [a]	50	20	ug/l	
1330-20-7	Xylene (total)	8290 [a]	50	20	ug/l	

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RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW22-ROX-012014		
Lab Sample ID:	MC27802-2	**Date Sampled:**	01/20/14
Matrix:	AQ - Ground Water	**Date Received:**	01/21/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	87%	97%	70-130%
2037-26-5	Toluene-D8	93%	98%	70-130%
460-00-4	4-Bromofluorobenzene	106%	104%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Result is from Run# 2
(b) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW22-ROX-012014		
Lab Sample ID:	MC27802-2	**Date Sampled:**	01/20/14
Matrix:	AQ - Ground Water	**Date Received:**	01/21/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R36757.D	5	01/28/14	KR	01/22/14	OP36626	MSR1354
Run #2							

	Initial Volume	Final Volume
Run #1	940 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	53	6.6	ug/l	
95-57-8	2-Chlorophenol	ND	27	2.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	53	2.6	ug/l	
120-83-2	2,4-Dichlorophenol	ND	53	1.7	ug/l	
105-67-9	2,4-Dimethylphenol	39.9	53	6.1	ug/l	J
51-28-5	2,4-Dinitrophenol	ND	110	13	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	53	6.4	ug/l	
95-48-7	2-Methylphenol	12.4	53	6.8	ug/l	J
	3&4-Methylphenol	31.3	53	11	ug/l	J
88-75-5	2-Nitrophenol	ND	53	2.7	ug/l	
100-02-7	4-Nitrophenol	ND	110	3.1	ug/l	
87-86-5	Pentachlorophenol	ND	53	6.6	ug/l	
108-95-2	Phenol	7.1	27	2.7	ug/l	J
95-95-4	2,4,5-Trichlorophenol	ND	53	3.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	53	1.7	ug/l	
62-53-3	Aniline	ND	53	3.4	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	27	1.1	ug/l	
85-68-7	Butyl benzyl phthalate	ND	27	4.5	ug/l	
100-51-6	Benzyl Alcohol	ND	53	3.1	ug/l	
91-58-7	2-Chloronaphthalene	ND	27	4.9	ug/l	
106-47-8	4-Chloroaniline	ND	53	1.3	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	27	1.1	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	27	1.2	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	27	0.71	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	27	1.1	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	27	3.5	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	53	3.6	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	53	3.4	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	27	2.7	ug/l	
132-64-9	Dibenzofuran	ND	11	0.83	ug/l	
84-74-2	Di-n-butyl phthalate	ND	27	2.1	ug/l	
117-84-0	Di-n-octyl phthalate	ND	27	2.3	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW22-ROX-012014		
Lab Sample ID:	MC27802-2	**Date Sampled:**	01/20/14
Matrix:	AQ - Ground Water	**Date Received:**	01/21/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	27	2.7	ug/l	
131-11-3	Dimethyl phthalate	ND	27	2.7	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	11	2.6	ug/l	
118-74-1	Hexachlorobenzene	ND	27	1.6	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	53	13	ug/l	
67-72-1	Hexachloroethane	ND	27	2.3	ug/l	
78-59-1	Isophorone	ND	27	1.1	ug/l	
88-74-4	2-Nitroaniline	ND	53	1.5	ug/l	
99-09-2	3-Nitroaniline	ND	53	2.7	ug/l	
100-01-6	4-Nitroaniline	ND	53	23	ug/l	
98-95-3	Nitrobenzene	ND	27	1.3	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	27	2.7	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	27	4.3	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	27	2.9	ug/l	
110-86-1	Pyridine	ND	53	2.7	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	56%		15-110%
4165-62-2	Phenol-d5	29%		15-110%
118-79-6	2,4,6-Tribromophenol	74%		15-110%
4165-60-0	Nitrobenzene-d5	85%		30-130%
321-60-8	2-Fluorobiphenyl	67%		30-130%
1718-51-0	Terphenyl-d14	83%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW22-ROX-012014		
Lab Sample ID:	MC27802-2	**Date Sampled:**	01/20/14
Matrix:	AQ - Ground Water	**Date Received:**	01/21/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R36726.D	1	01/27/14	KR	01/22/14	OP36627	MSR1353
Run #2							

	Initial Volume	Final Volume
Run #1	940 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.15	0.11	0.073	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.053	ug/l	
120-12-7	Anthracene	ND	0.11	0.098	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.053	0.021	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.031	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.053	0.034	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.029	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.041	ug/l	
218-01-9	Chrysene	ND	0.11	0.025	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.034	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.043	ug/l	
86-73-7	Fluorene	0.17	0.11	0.11	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.033	ug/l	
90-12-0	1-Methylnaphthalene	25.8	0.21	0.053	ug/l	
91-57-6	2-Methylnaphthalene	45.9	0.21	0.079	ug/l	
85-01-8	Phenanthrene	0.20	0.053	0.013	ug/l	B
129-00-0	Pyrene	ND	0.11	0.041	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	91%		30-130%
321-60-8	2-Fluorobiphenyl	74%		30-130%
1718-51-0	Terphenyl-d14	89%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW22-ROX-012014		
Lab Sample ID:	MC27802-2	**Date Sampled:**	01/20/14
Matrix:	AQ - Ground Water	**Date Received:**	01/21/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ87728.D	1	01/23/14	CZ	01/23/14	OP36632	GYZ7477
Run #2							

	Initial Volume	Final Volume
Run #1	34.8 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0055	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	279% [a]		36-173%
460-00-4	Bromofluorobenzene (S)	276% [a]		36-173%

(a) Outside control limits due to possible matrix interference.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW22-ROX-012014-DUP		
Lab Sample ID:	MC27802-3	**Date Sampled:**	01/20/14
Matrix:	AQ - Ground Water	**Date Received:**	01/21/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V27265.D	1	01/22/14	AMY	n/a	n/a	MSV1029
Run #2	V27298.D	50	01/23/14	AMY	n/a	n/a	MSV1030

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	1580 [a]	25	23	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	81.5	5.0	1.6	ug/l	
104-51-8	n-Butylbenzene	35.5	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	12.7	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	14.6	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW22-ROX-012014-DUP		
Lab Sample ID:	MC27802-3	**Date Sampled:**	01/20/14
Matrix:	AQ - Ground Water	**Date Received:**	01/21/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
123-91-1	1,4-Dioxane [b]	ND	25	16	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	3400 [a]	50	19	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	8.8	5.0	2.3	ug/l	
98-82-8	Isopropylbenzene	169	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	9.4	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	7.0	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	161 [a]	250	39	ug/l	J
103-65-1	n-Propylbenzene	286	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	5710 [a]	50	23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	1370 [a]	250	23	ug/l	
108-67-8	1,3,5-Trimethylbenzene	398	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	6010 [a]	50	35	ug/l	
95-47-6	o-Xylene	2810 [a]	50	20	ug/l	
1330-20-7	Xylene (total)	8830 [a]	50	20	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW22-ROX-012014-DUP		
Lab Sample ID:	MC27802-3	**Date Sampled:**	01/20/14
Matrix:	AQ - Ground Water	**Date Received:**	01/21/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	85%	96%	70-130%
2037-26-5	Toluene-D8	93%	99%	70-130%
460-00-4	4-Bromofluorobenzene	106%	105%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Result is from Run# 2
(b) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW22-ROX-012014-DUP		
Lab Sample ID:	MC27802-3	**Date Sampled:**	01/20/14
Matrix:	AQ - Ground Water	**Date Received:**	01/21/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R36758.D	5	01/28/14	KR	01/22/14	OP36626	MSR1354
Run #2							

	Initial Volume	Final Volume
Run #1	930 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	54	6.7	ug/l	
95-57-8	2-Chlorophenol	ND	27	2.1	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	54	2.6	ug/l	
120-83-2	2,4-Dichlorophenol	ND	54	1.8	ug/l	
105-67-9	2,4-Dimethylphenol	36.4	54	6.1	ug/l	J
51-28-5	2,4-Dinitrophenol	ND	110	13	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	54	6.4	ug/l	
95-48-7	2-Methylphenol	11.8	54	6.9	ug/l	J
	3&4-Methylphenol	29.6	54	11	ug/l	J
88-75-5	2-Nitrophenol	ND	54	2.7	ug/l	
100-02-7	4-Nitrophenol	ND	110	3.1	ug/l	
87-86-5	Pentachlorophenol	ND	54	6.7	ug/l	
108-95-2	Phenol	7.0	27	2.8	ug/l	J
95-95-4	2,4,5-Trichlorophenol	ND	54	3.1	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	54	1.7	ug/l	
62-53-3	Aniline	ND	54	3.4	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	27	1.1	ug/l	
85-68-7	Butyl benzyl phthalate	ND	27	4.6	ug/l	
100-51-6	Benzyl Alcohol	ND	54	3.1	ug/l	
91-58-7	2-Chloronaphthalene	ND	27	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	54	1.3	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	27	1.1	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	27	1.2	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	27	0.72	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	27	1.1	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	27	3.5	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	54	3.6	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	54	3.4	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	27	2.7	ug/l	
132-64-9	Dibenzofuran	ND	11	0.84	ug/l	
84-74-2	Di-n-butyl phthalate	ND	27	2.1	ug/l	
117-84-0	Di-n-octyl phthalate	ND	27	2.3	ug/l	

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Report of Analysis

Client Sample ID:	MW22-ROX-012014-DUP		
Lab Sample ID:	MC27802-3	**Date Sampled:**	01/20/14
Matrix:	AQ - Ground Water	**Date Received:**	01/21/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	27	2.7	ug/l	
131-11-3	Dimethyl phthalate	ND	27	2.7	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	11	2.6	ug/l	
118-74-1	Hexachlorobenzene	ND	27	1.6	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	54	13	ug/l	
67-72-1	Hexachloroethane	ND	27	2.4	ug/l	
78-59-1	Isophorone	ND	27	1.1	ug/l	
88-74-4	2-Nitroaniline	ND	54	1.5	ug/l	
99-09-2	3-Nitroaniline	ND	54	2.7	ug/l	
100-01-6	4-Nitroaniline	ND	54	23	ug/l	
98-95-3	Nitrobenzene	ND	27	1.3	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	27	2.7	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	27	4.3	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	27	2.9	ug/l	
110-86-1	Pyridine	ND	54	2.8	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	51%		15-110%
4165-62-2	Phenol-d5	27%		15-110%
118-79-6	2,4,6-Tribromophenol	71%		15-110%
4165-60-0	Nitrobenzene-d5	80%		30-130%
321-60-8	2-Fluorobiphenyl	61%		30-130%
1718-51-0	Terphenyl-d14	80%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW22-ROX-012014-DUP		
Lab Sample ID:	MC27802-3	**Date Sampled:**	01/20/14
Matrix:	AQ - Ground Water	**Date Received:**	01/21/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R36727.D	1	01/27/14	KR	01/22/14	OP36627	MSR1353
Run #2							

	Initial Volume	Final Volume
Run #1	930 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.14	0.11	0.074	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.053	ug/l	
120-12-7	Anthracene	ND	0.11	0.099	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.054	0.021	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.031	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.054	0.034	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.029	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.042	ug/l	
218-01-9	Chrysene	ND	0.11	0.026	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.034	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.044	ug/l	
86-73-7	Fluorene	0.15	0.11	0.11	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.033	ug/l	
90-12-0	1-Methylnaphthalene	23.2	0.22	0.054	ug/l	
91-57-6	2-Methylnaphthalene	41.6	0.22	0.080	ug/l	
85-01-8	Phenanthrene	0.20	0.054	0.014	ug/l	B
129-00-0	Pyrene	ND	0.11	0.041	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	82%		30-130%
321-60-8	2-Fluorobiphenyl	66%		30-130%
1718-51-0	Terphenyl-d14	85%		30-130%

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW22-ROX-012014-DUP		
Lab Sample ID:	MC27802-3	**Date Sampled:**	01/20/14
Matrix:	AQ - Ground Water	**Date Received:**	01/21/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ87729.D	1	01/23/14	CZ	01/23/14	OP36632	GYZ7477
Run #2							

	Initial Volume	Final Volume
Run #1	35.6 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0053	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	137%		36-173%
460-00-4	Bromofluorobenzene (S)	161%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-012014-HCL		
Lab Sample ID:	MC27802-4	**Date Sampled:**	01/20/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/21/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V27255.D	1	01/22/14	AMY	n/a	n/a	MSV1029
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	6.4	10	2.8	ug/l	J
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-012014-HCL		
Lab Sample ID:	MC27802-4	**Date Sampled:**	01/20/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/21/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
123-91-1	1,4-Dioxane [a]	ND	25	16	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene [a]	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.70	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-012014-HCL		
Lab Sample ID:	MC27802-4	**Date Sampled:**	01/20/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/21/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		70-130%
2037-26-5	Toluene-D8	100%		70-130%
460-00-4	4-Bromofluorobenzene	103%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-012014-ST		
Lab Sample ID:	MC27802-5	**Date Sampled:**	01/20/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/21/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ87730.D	1	01/23/14	CZ	01/23/14	OP36632	GYZ7477
Run #2							

	Initial Volume	Final Volume
Run #1	35.1 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0054	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	87%		36-173%
460-00-4	Bromofluorobenzene (S)	87%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

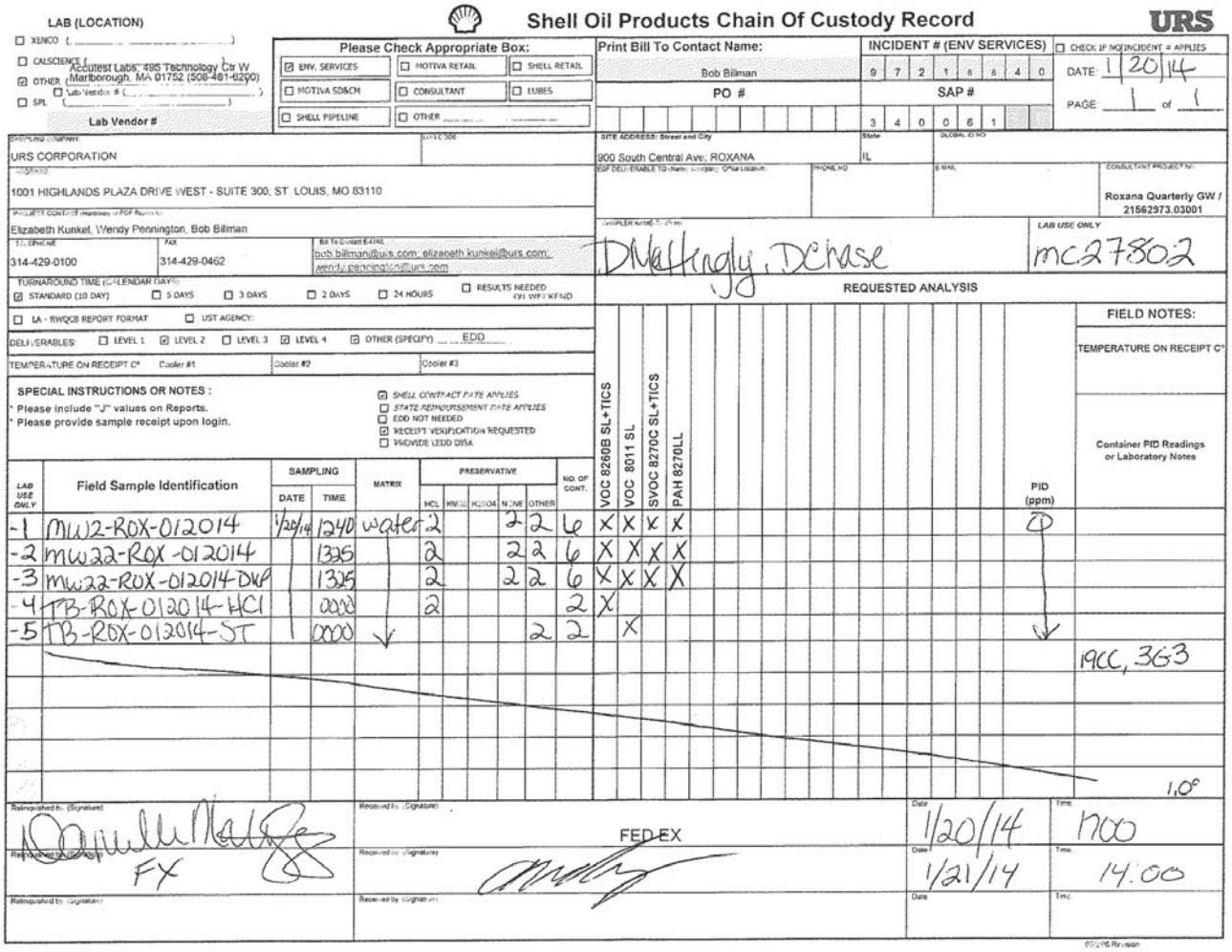
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- REPROC Form: Reprocessed/Corrected Data
- Sample Tracking Chronicle
- Internal Chain of Custody



Shell Oil Products Chain Of Custody Record

URS

LAB (LOCATION)
- ☐ XENCO ( )
- ☐ CALSCIENCE ( )
- ☑ OTHER (Accutest Labs, 495 Technology Ctr W Marlborough, MA 01752 (508-481-6200))
- ☐ Lab Vendor # ( )
- ☐ SPL ( )

Lab Vendor #

Please Check Appropriate Box:
- ☑ ENV. SERVICES
- ☐ MOTIVA RETAIL
- ☐ SHELL RETAIL
- ☐ MOTIVA SDSCM
- ☐ CONSULTANT
- ☐ LUBES
- ☐ SHELL PIPELINE
- ☐ OTHER

Print Bill To Contact Name: Bob Billman

PO #

INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0

SAP #: 3 4 0 0 6 1

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 1/20/14

PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION

LOGIC CODE:

SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA

State: IL

GLOBAL ID NO:

ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110

EDF DELIVERABLE TO (Name, Company, Office Location):

PHONE NO:

E-MAIL:

CONSULTANT PROJECT NO.: Roxana Quarterly GW / 21562973.03001

PROJECT CONTACT (Hardcopy or PDF Report to): Elizabeth Kunkel, Wendy Pennington, Bob Billman

TELEPHONE: 314-429-0100

FAX: 314-429-0462

Bill To Contact E-MAIL: bob.billman@urs.com; elizabeth.kunkel@urs.com; wendy.pennington@urs.com

SAMPLER NAME(S) (Print): DMattingly, DChase

LAB USE ONLY: mc27802

TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (10 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☑ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☑ OTHER (SPECIFY) EDD

TEMPERATURE ON RECEIPT C° Cooler #1 Cooler #2 Cooler #3

SPECIAL INSTRUCTIONS OR NOTES:
- Please include "J" values on Reports.
- Please provide sample receipt upon login.

- ☑ SHELL CONTRACT RATE APPLIES
- ☐ STATE REIMBURSEMENT RATE APPLIES
- ☐ EDD NOT NEEDED
- ☑ RECEIPT VERIFICATION REQUESTED
- ☐ PROVIDE EDD DISK

REQUESTED ANALYSIS

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8260B SL+TICS	VOC 8011 SL	SVOC 8270C SL+TICS	PAH 8270LL	PID (ppm)	Container PID Readings or Laboratory Notes
-1	MW2-ROX-012014	1/20/14	1240	water	2			2	2	6	X	X	X	X	0	
-2	MW22-ROX-012014		1325		2			2	2	6	X	X	X	X		
-3	MW22-ROX-012014-DUP		1325		2			2	2	6	X	X	X	X		
-4	TB-ROX-012014-HCl		0000		2					2	X					
-5	TB-ROX-012014-ST		0000						2	2		X				
																19CC, 3G3
																1.0°

Relinquished by (Signature)	Received by (Signature)	Date	Time
[signature]	FED EX	1/20/14	1700
FX	[signature]	1/21/14	14:00

02/2/16 Revision

MC27802: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC27802 **Client:** URS **Immediate Client Services Action Required:** No

Date / Time Received: 1/21/2014 **Delivery Method:** **Client Service Action Required at Login:** No

Project: 900 SOUTH CENTRAL **No. Coolers:** 1 **Airbill #'s:**

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Infared gun		
3. Cooler media:	Ice (bag)		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

Marlborough, MA
www/accutest.com

5.1

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MC27802: Chain of Custody
Page 2 of 2

Initial Calibration Summary

Job Number: MC27802 **Sample:** MSV1019-ICC1019
Account: SHELLWIC Shell Oil **Lab FileID:** V26938.D
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Response Factor Report MSV

Method : O:\msv\1\methods\v140107wx.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Calibration Files
0.25=v26932.d 0.5 =v26933.d 1 =v26934.d 2 =v26935.d
5 =v26936.d 10 =v26937.d 50 =v26938.d 100 =v26939.d
200 =v26940.d 400 =v26942.d = =

Compound

	0.25	0.5	1	2	5	10	50	100	200	400	Avg	%RSD
1) I tert butyl alcohol-d9 ----------ISTD----------												
2) Ethanol				0.166	0.141	0.140	0.070	0.095	0.070	0.077	0.108	36.81

---- Linear regression ---- Coefficient = 0.9924
Response Ratio = 0.07206 + 0.07518 *A

3) I pentafluorobenzene ----------ISTD----------												
4) chloroethane				0.708	0.546	0.470	0.438	0.407	0.399	0.368	0.311	0.456	27.04

---- Linear regression ---- Coefficient = 0.9911
Response Ratio = 0.00673 + 0.37855 *A

(#) = Out of Range ### Number of calibration levels exceeded format ###

v140107wx.m Mon Oct 12 12:04:54 2015

Initial Calibration Verification

Job Number: MC27802 **Sample:** MSV1019-ICV1019
Account: SHELLWIC Shell Oil **Lab FileID:** V26944.D
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Evaluate Continuing Calibration Report

Data File : O:\msv\1\databackup\v140107\v26944.d Vial: 22
Acq On : 7 Jan 2014 7:05 pm Operator: amym
Sample : icv1019-50 Inst : MSV
Misc : MS30921,MSV1019,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : O:\msv\1\methods\v140107wx.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Oct 12 12:03:49 2015
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	tert butyl alcohol-d9	1.000	1.000	0.0	110	-0.01	3.51
		Amount	Calc.	%Drift			
2 p	Ethanol	5000.000	6281.655	-25.6#	160	0.01	2.50
		AvgRF	CCRF	%Dev			
3 I	pentafluorobenzene	1.000	1.000	0.0	113	0.00	6.55
		Amount	Calc.	%Drift			
4 p	chloroethane	50.000	55.636	-11.3	119	0.00	2.15

(#) = Out of Range SPCC's out = 0 CCC's out = 0
v26938.d v140107wx.m Mon Oct 12 12:05:26 2015

Continuing Calibration Summary

Job Number: MC27802 **Sample:** MSV1029-CC1019
Account: SHELLWIC Shell Oil **Lab FileID:** V27246.D
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Evaluate Continuing Calibration Report

Data File : O:\msv\1\databackup\v140122\v27246.d Vial: 2
Acq On : 22 Jan 2014 8:45 am Operator: amym
Sample : cc1019-50 Inst : MSV
Misc : MS30995,MSV1029,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : O:\msv\1\methods\v140107wx.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Oct 12 12:03:49 2015
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	tert butyl alcohol-d9	1.000	1.000	0.0	92	0.00	3.53
		Amount	Calc.	%Drift			
2 p	Ethanol	5000.000	8414.089	-68.3#	176	0.03	2.52
		AvgRF	CCRF	%Dev			
3 I	pentafluorobenzene	1.000	1.000	0.0	93	0.02	6.58
		Amount	Calc.	%Drift			
4 p	chloroethane	50.000	50.546	-1.1	89	0.01	2.17

(#) = Out of Range SPCC's out = 0 CCC's out = 0
v26938.d v140107wx.m Tue Nov 17 18:29:41 2015

Continuing Calibration Summary

Job Number: MC27802 **Sample:** MSV1030-CC1019
Account: SHELLWIC Shell Oil **Lab FileID:** V27284.D
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Evaluate Continuing Calibration Report

Data File : O:\msv\1\databackup\v140123\v27284.d Vial: 2
Acq On : 23 Jan 2014 3:24 pm Operator: amym
Sample : cc1019-50 Inst : MSV
Misc : MS31004,MSV1030,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : O:\msv\1\methods\v140107wx.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Oct 12 12:03:49 2015
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	tert butyl alcohol-d9	1.000	1.000	0.0	81	-0.01	3.51
		Amount	Calc.	%Drift			
2 p	Ethanol	5000.000	8163.363	-63.3#	150	0.02	2.51
		AvgRF	CCRF	%Dev			
3 I	pentafluorobenzene	1.000	1.000	0.0	85	0.00	6.56
		Amount	Calc.	%Drift			
4 p	chloroethane	50.000	59.670	-19.3	96	0.00	2.15

(#) = Out of Range SPCC's out = 0 CCC's out = 0
v26938.d v140107wx.m Tue Nov 17 22:34:15 2015

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26932.d
Acq On : 7 Jan 2014 12:30 pm
Operator : amym
Sample : ic1019-0.25
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

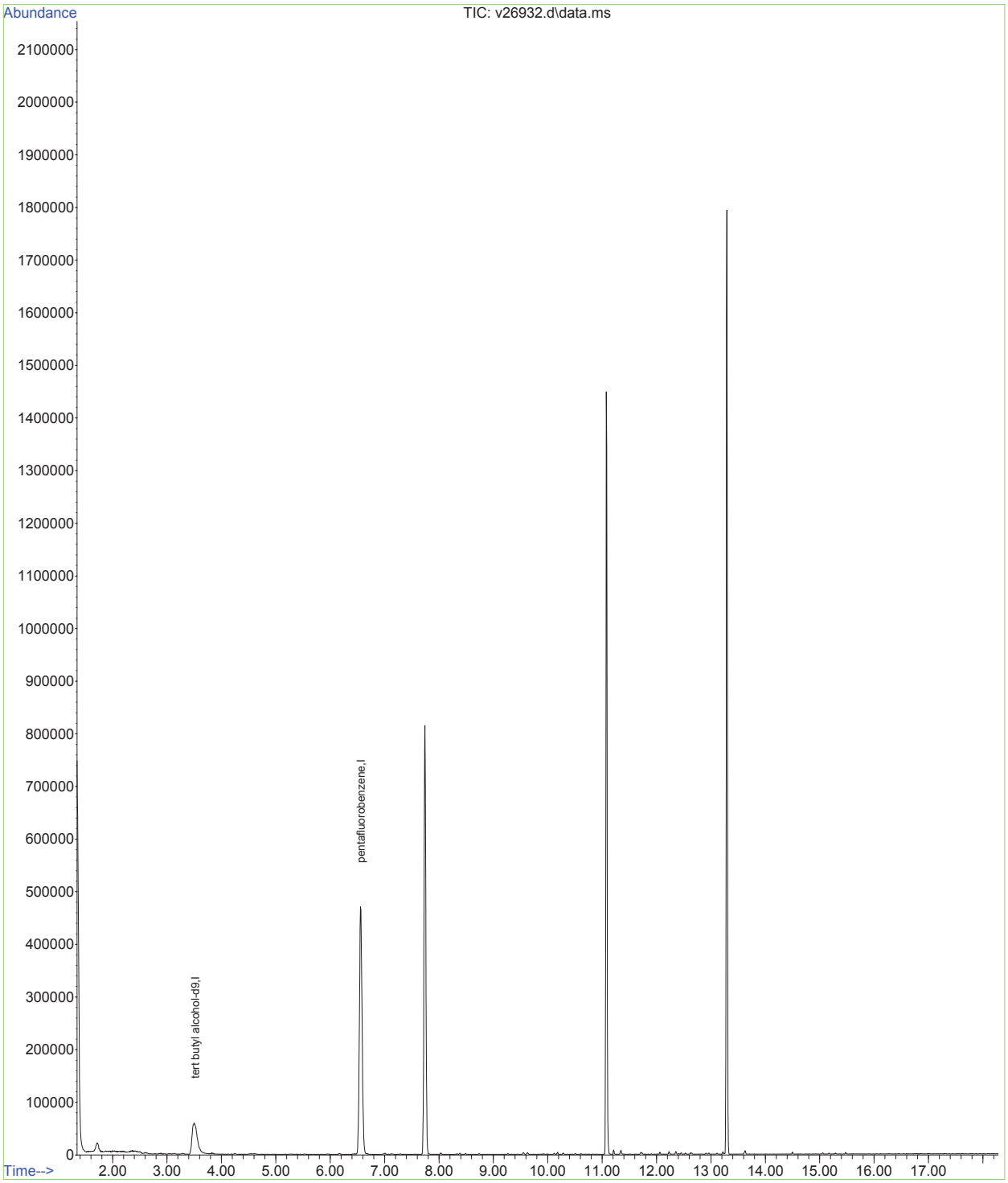
Quant Time: Oct 12 11:50:29 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.522	65	168440	500.00	ug/L	0.00
3) pentafluorobenzene	6.564	168	534929	50.00	ug/L	0.00
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msv\1\databackup\v140107\
Data File : v26932.d
Acq On : 7 Jan 2014 12:30 pm
Operator : amym
Sample : ic1019-0.25
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 12 11:50:29 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Data Path : O:\msv\1\databackup\v140107\
Data File : v26933.d
Acq On : 7 Jan 2014 12:56 pm
Operator : amym
Sample : ic1019-0.5
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

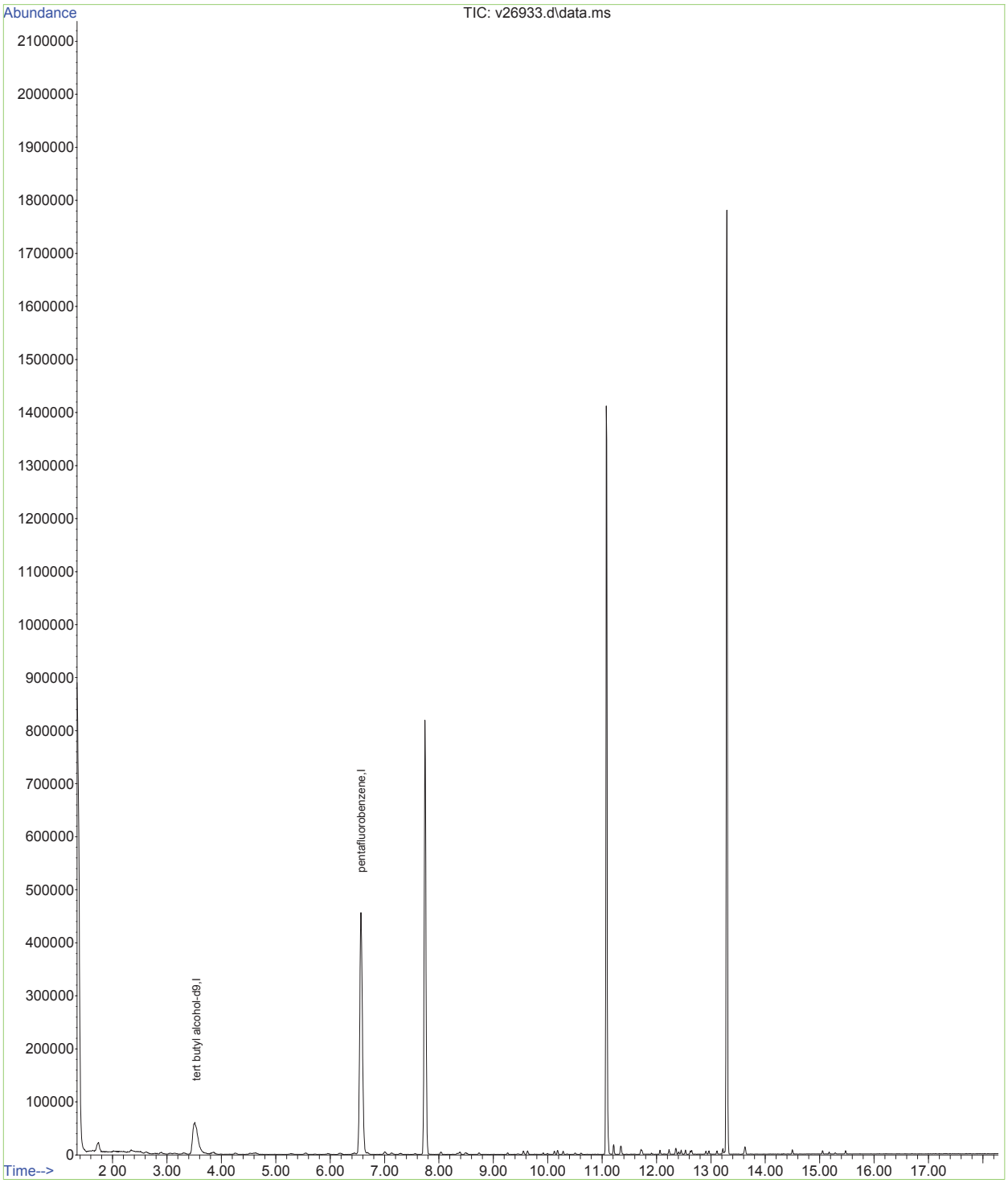
Quant Time: Oct 12 11:50:59 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.537	65	168993	500.00	ug/L	0.01
3) pentafluorobenzene	6.570	168	523768	50.00	ug/L	0.01
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msv\1\databackup\v140107\
Data File : v26933.d
Acq On : 7 Jan 2014 12:56 pm
Operator : amym
Sample : ic1019-0.5
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 12 11:50:59 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26934.d
Acq On : 7 Jan 2014 1:22 pm
Operator : amym
Sample : ic1019-1
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

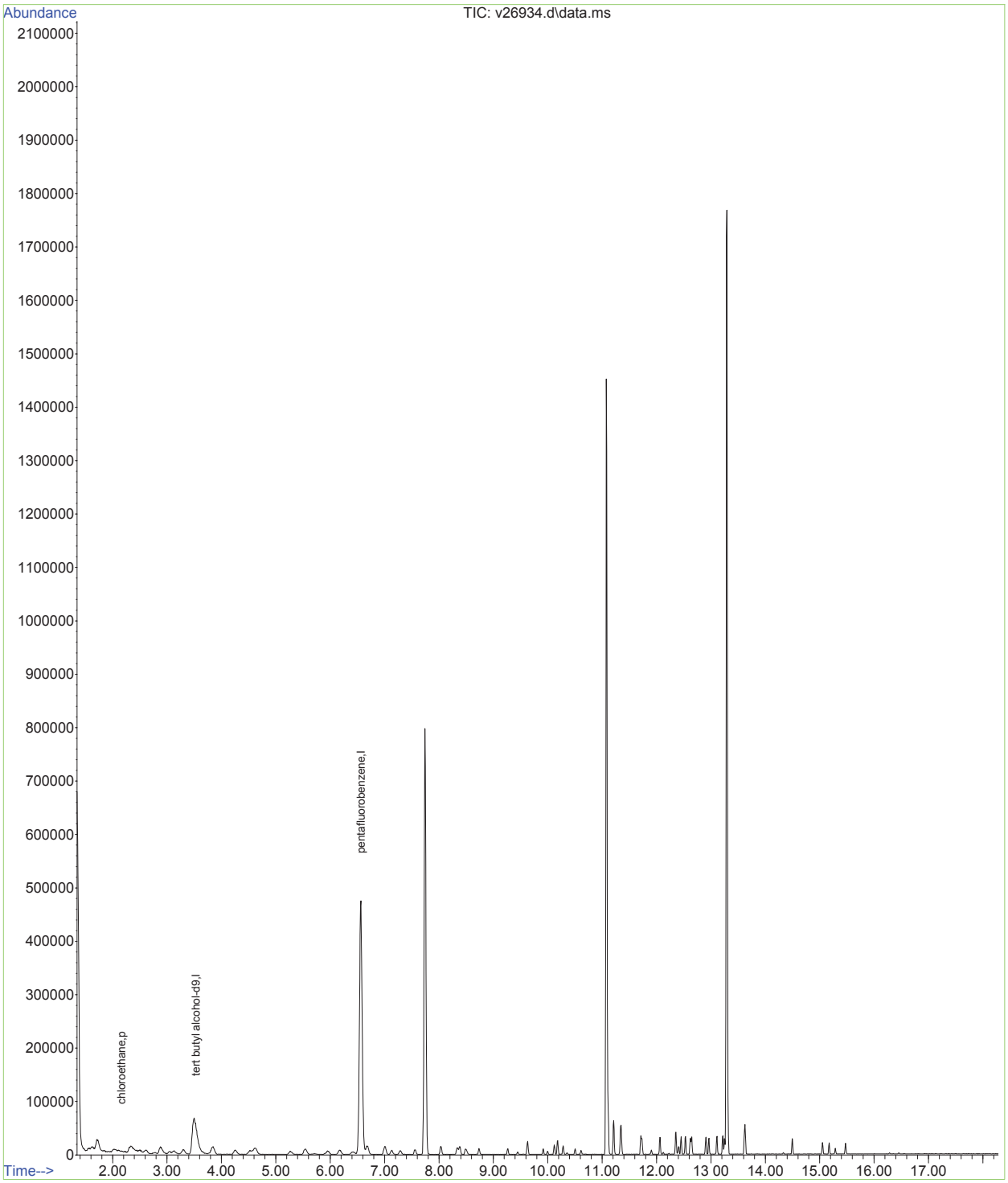
Quant Time: Oct 12 11:52:02 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.527	65	169438	500.00	ug/L	0.00
3) pentafluorobenzene	6.565	168	527887	50.00	ug/L	0.00
Target Compounds						Qvalue
4) chloroethane	2.159	64	7471m	1.74	ug/L	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msv\1\databackup\v140107\
Data File : v26934.d
Acq On : 7 Jan 2014 1:22 pm
Operator : amym
Sample : ic1019-1
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

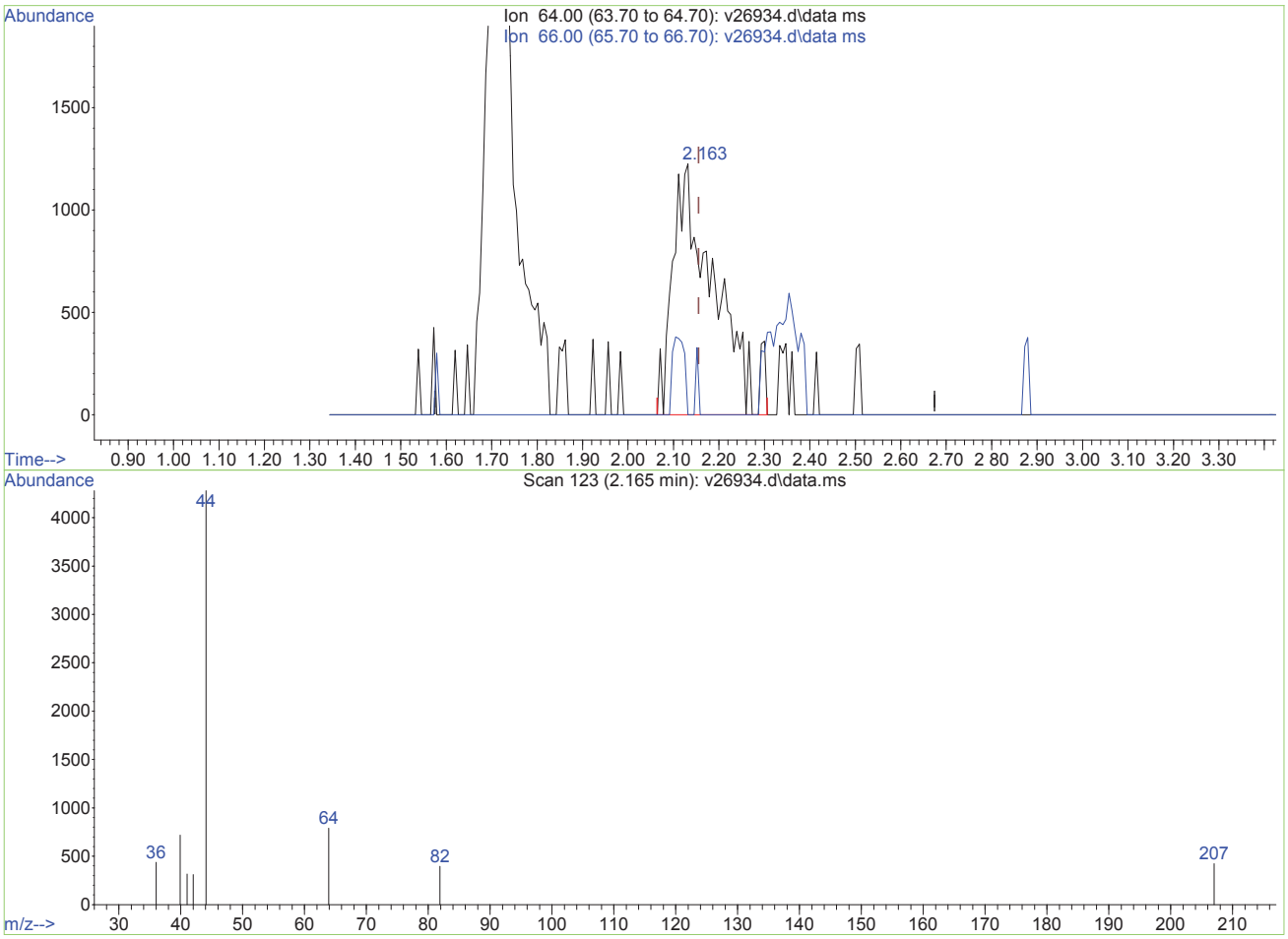
Quant Time: Oct 12 11:52:02 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



SGS ACCUTEST MC27802

Data Path : O:\msv\1\databackup\v140107\
Data File : v26934.d
Acq On : 7 Jan 2014 1:22 pm
Operator : amym
Sample : ic1019-1
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 12 11:49:53 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26934.d\data.ms

(4) chloroethane (p)

2.163min (+0.008) 1.81ug/L

response 7756

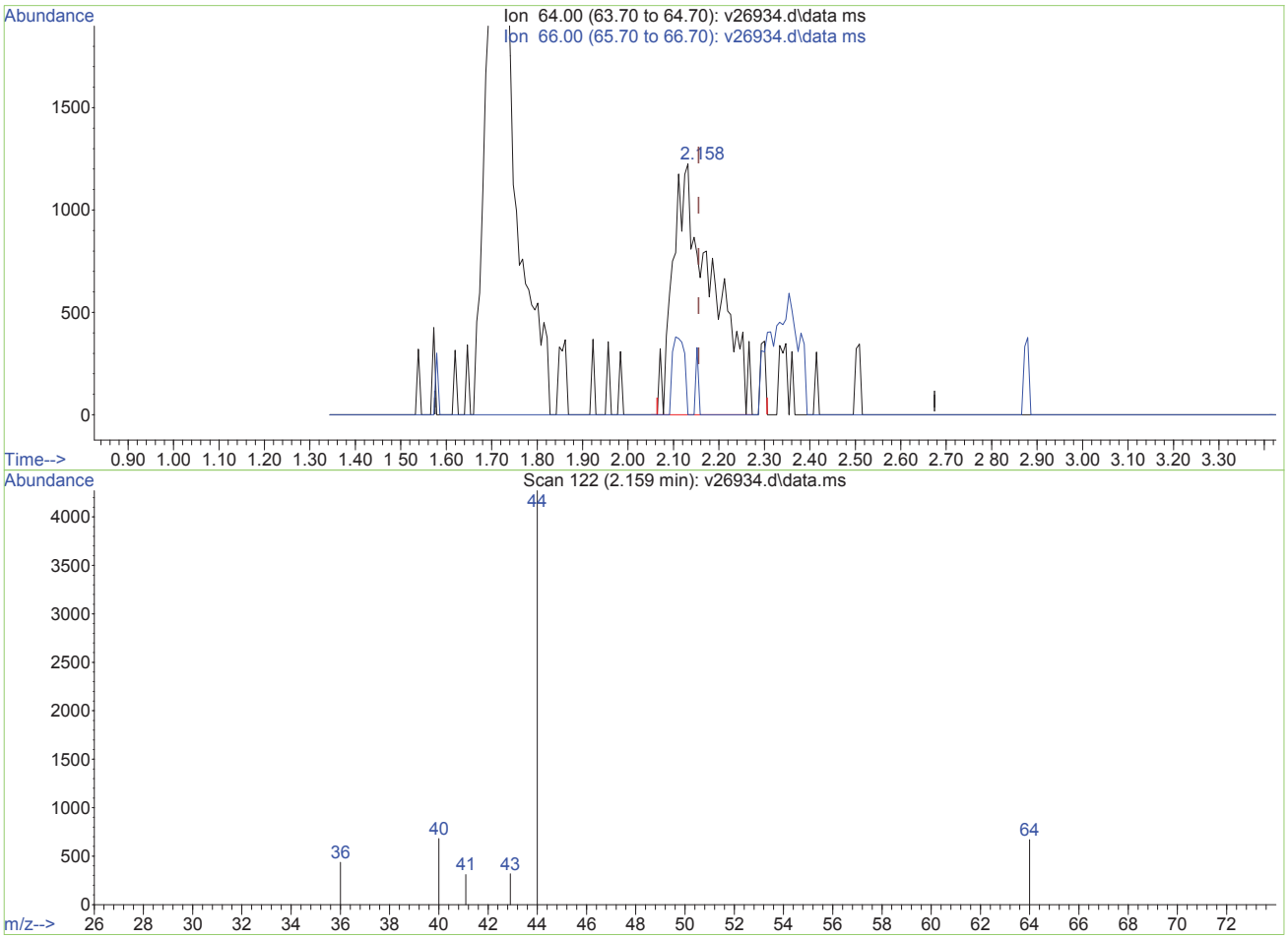
Ion	Exp%	Act%
64.00	100	100
66.00	34.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26934.D edits: chloroethane

SGS ACCUTEST MC27802

Data Path : O:\msv\1\databackup\v140107\
Data File : v26934.d
Acq On : 7 Jan 2014 1:22 pm
Operator : amym
Sample : ic1019-1
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 12 11:49:53 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26934.d\data.ms

(4) chloroethane (p)

2.159min (+0.003) 1.74ug/L m

response 7471

Ion	Exp%	Act%
64.00	100	100
66.00	34.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26934.D edits: chloroethane

Data Path : O:\msv\1\databackup\v140107\
Data File : v26935.d
Acq On : 7 Jan 2014 1:49 pm
Operator : amym
Sample : ic1019-2
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

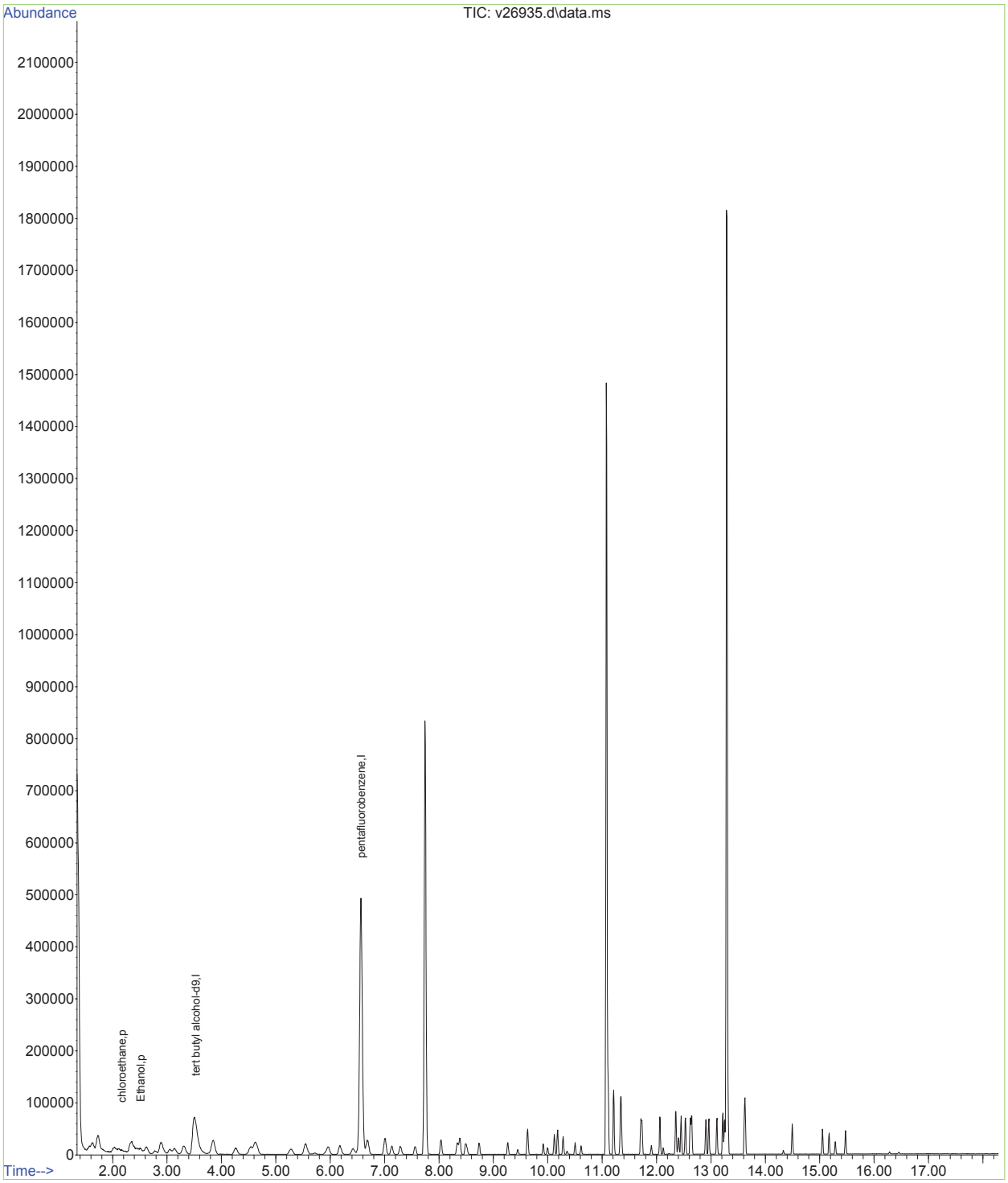
Quant Time: Oct 12 11:52:51 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.533	65	165100	500.00	ug/L	0.01
3) pentafluorobenzene	6.569	168	548060	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.516	45	10989m	474.44	ug/L	
4) chloroethane	2.170	64	11967	2.68	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

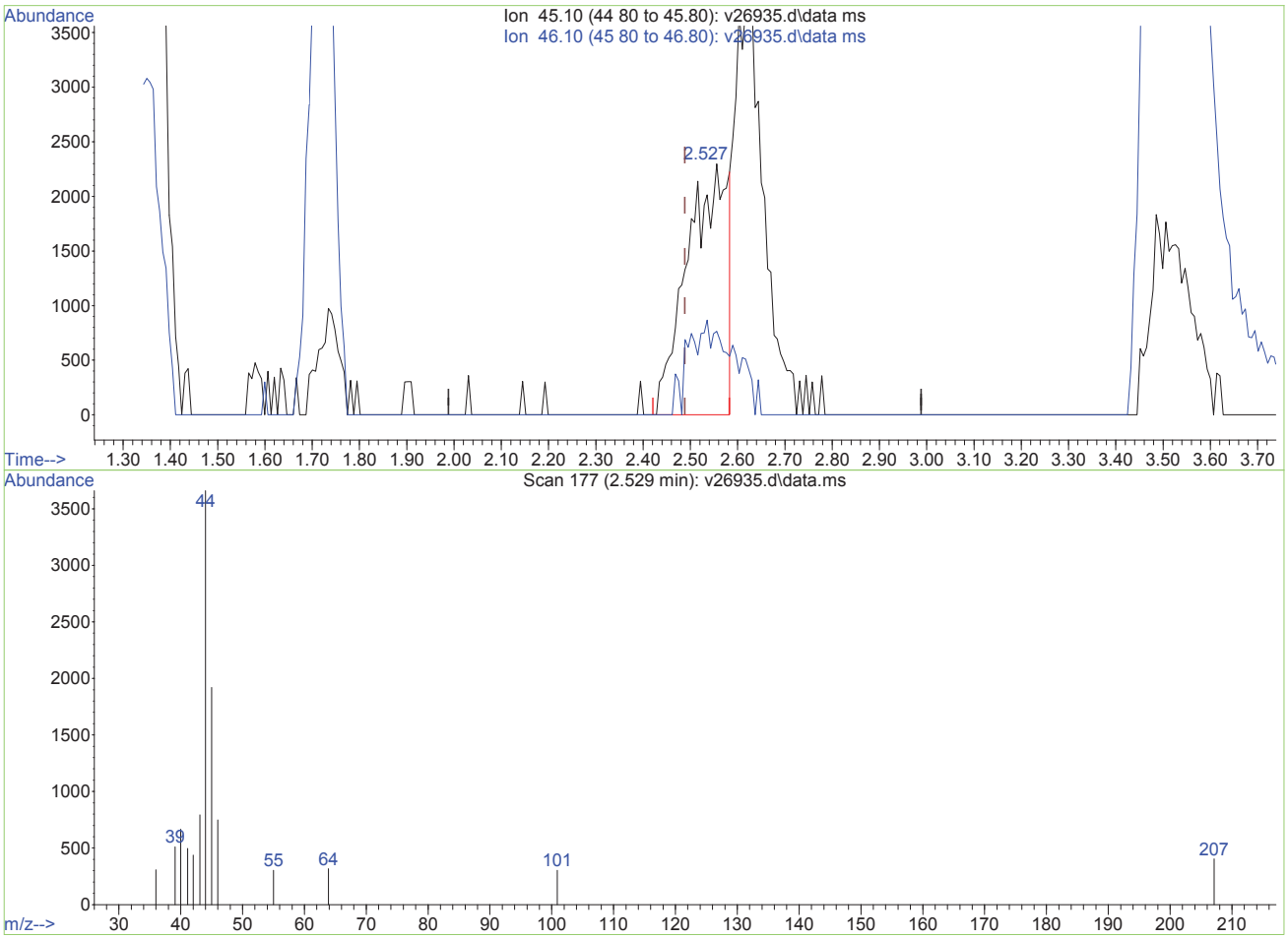
Data Path : O:\msv\1\databackup\v140107\
Data File : v26935.d
Acq On : 7 Jan 2014 1:49 pm
Operator : amym
Sample : ic1019-2
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 12 11:52:51 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Data Path : O:\msv\1\databackup\v140107\
Data File : v26935.d
Acq On : 7 Jan 2014 1:49 pm
Operator : amym
Sample : ic1019-2
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 12 11:49:55 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26935.d\data.ms

(2) Ethanol (p)

2.527min (+0.039) 585.36ug/L

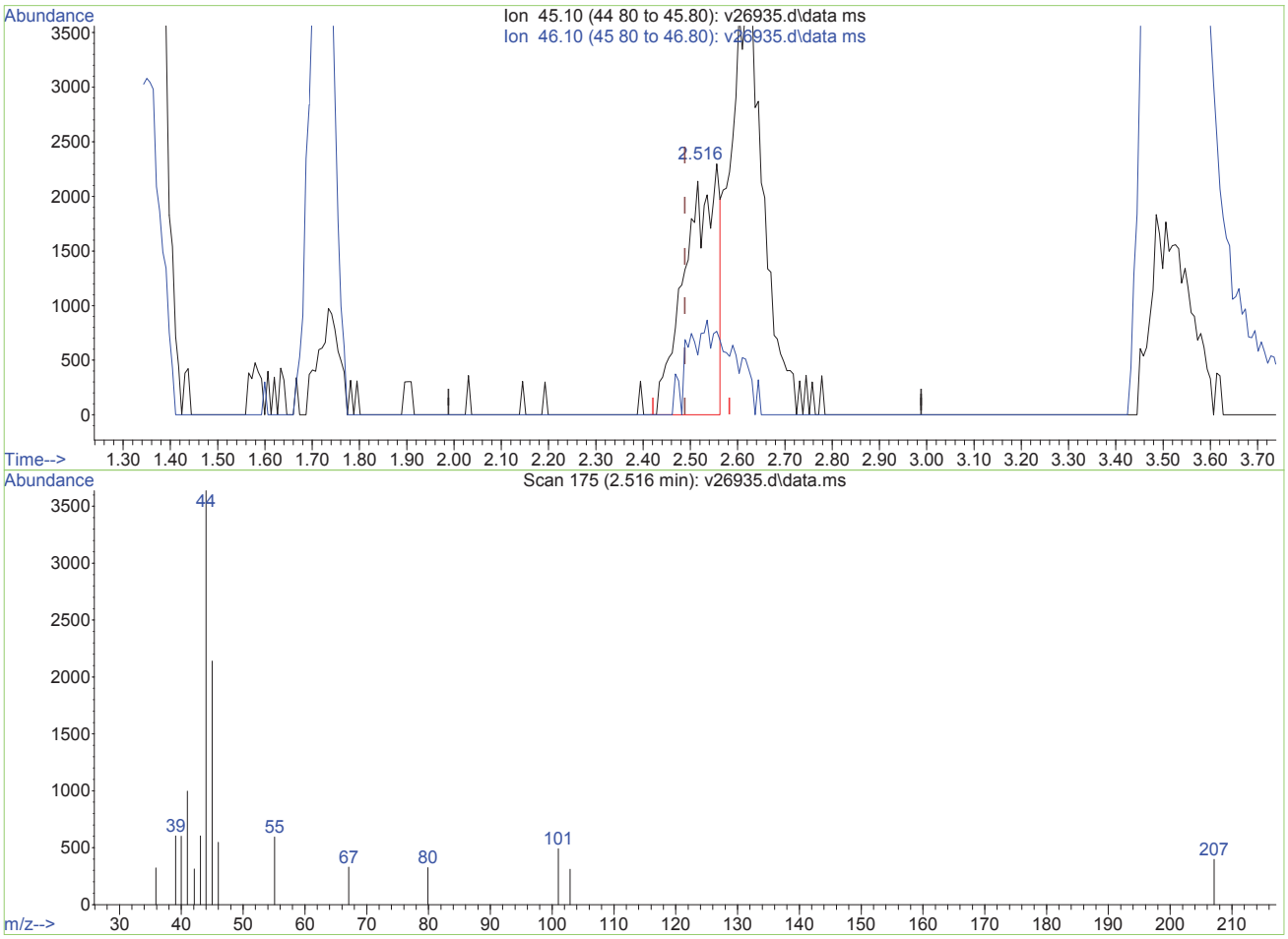
response 13558

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	43.04#
0.00	0.00	0.00
0.00	0.00	0.00

V26935.D edits: Ethanol

Data Path : O:\msv\1\databackup\v140107\
Data File : v26935.d
Acq On : 7 Jan 2014 1:49 pm
Operator : amym
Sample : ic1019-2
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 12 11:49:55 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26935.d\data.ms

(2) Ethanol (p)

2.516min (+0.027) 474.44ug/L m

response 10989

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	53.11#
0.00	0.00	0.00
0.00	0.00	0.00

V26935.D edits: Ethanol

Data Path : O:\msv\1\databackup\v140107\
Data File : v26936.d
Acq On : 7 Jan 2014 2:16 pm
Operator : amym
Sample : ic1019-5
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

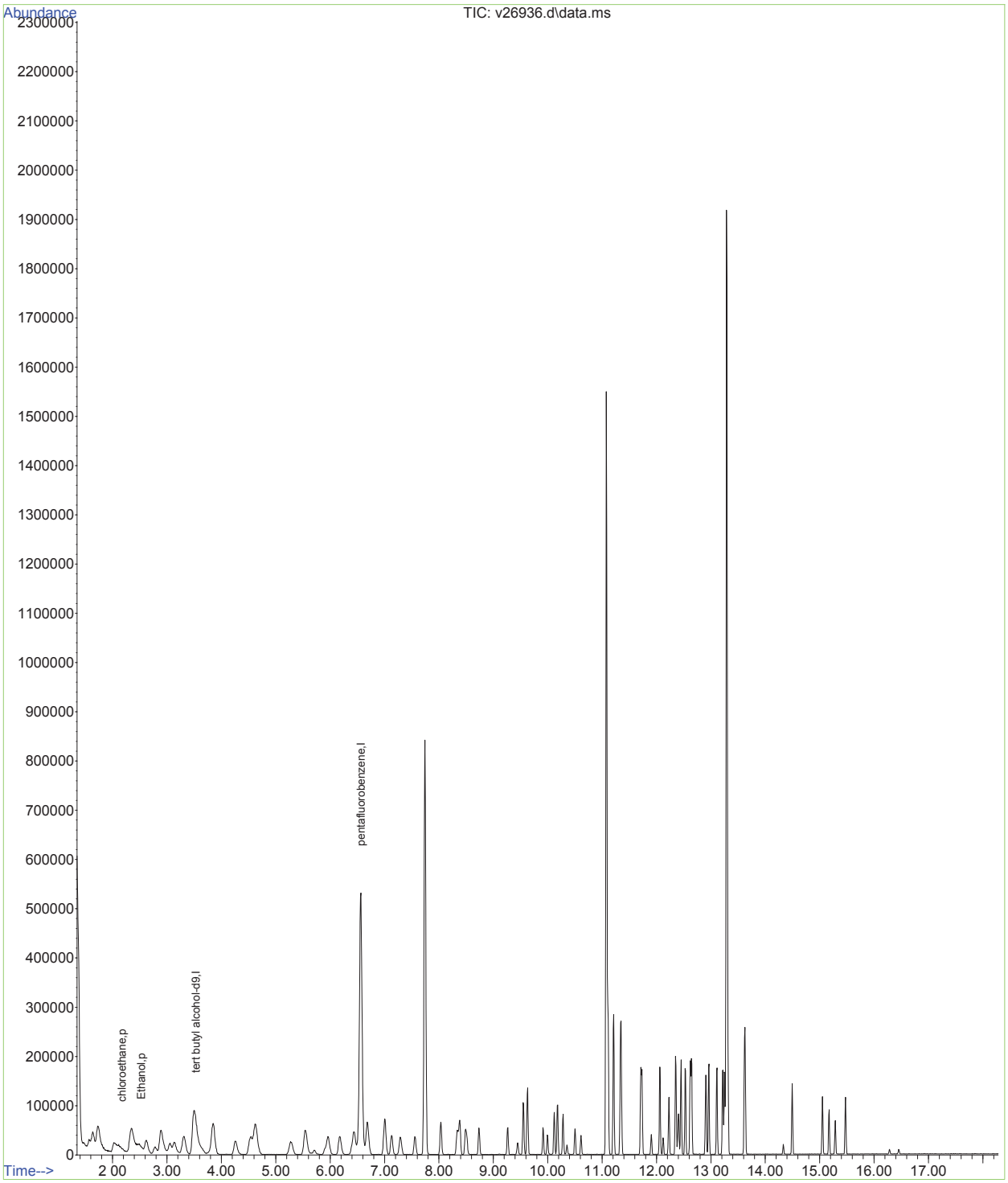
Quant Time: Oct 12 11:49:57 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.532	65	174193	500.00	ug/L	0.00
3) pentafluorobenzene	6.565	168	569450	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.523	45	24520	1003.38	ug/L	# 1
4) chloroethane	2.173	64	26754	5.77	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msv\1\databackup\v140107\
Data File : v26936.d
Acq On : 7 Jan 2014 2:16 pm
Operator : amym
Sample : ic1019-5
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 12 11:49:57 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Data Path : O:\msv\1\databackup\v140107\
Data File : v26937.d
Acq On : 7 Jan 2014 2:42 pm
Operator : amym
Sample : ic1019-10
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

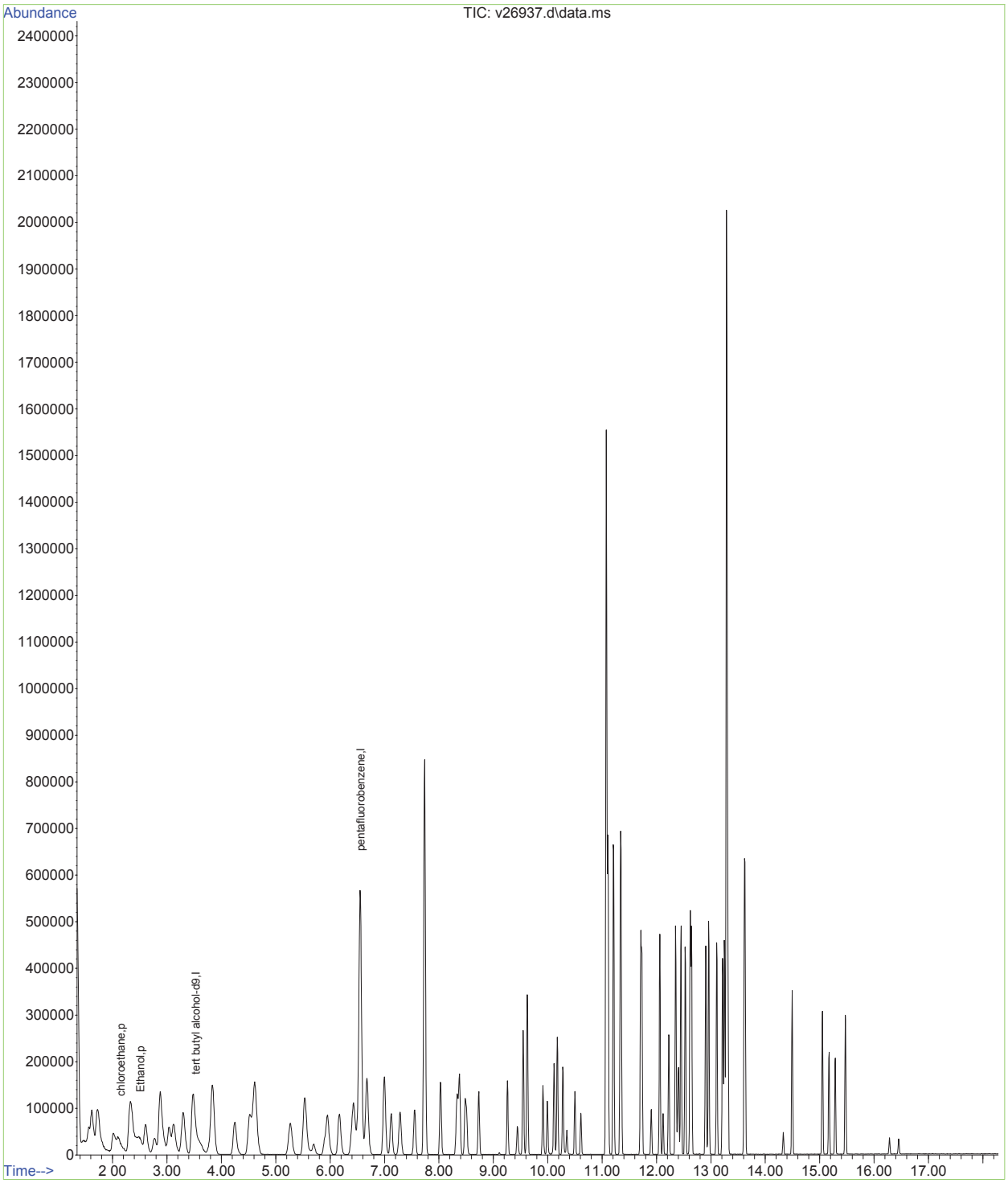
Quant Time: Oct 12 11:49:59 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.523	65	172384	500.00	ug/L	0.00
3) pentafluorobenzene	6.556	168	597997	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.509	45	48113	1989.48	ug/L	# 1
4) chloroethane	2.155	64	52409	10.77	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msv\1\databackup\v140107\
Data File : v26937.d
Acq On : 7 Jan 2014 2:42 pm
Operator : amym
Sample : ic1019-10
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 12 11:49:59 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Data Path : O:\msv\1\databackup\v140107\
Data File : v26938.d
Acq On : 7 Jan 2014 3:08 pm
Operator : amym
Sample : icc1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

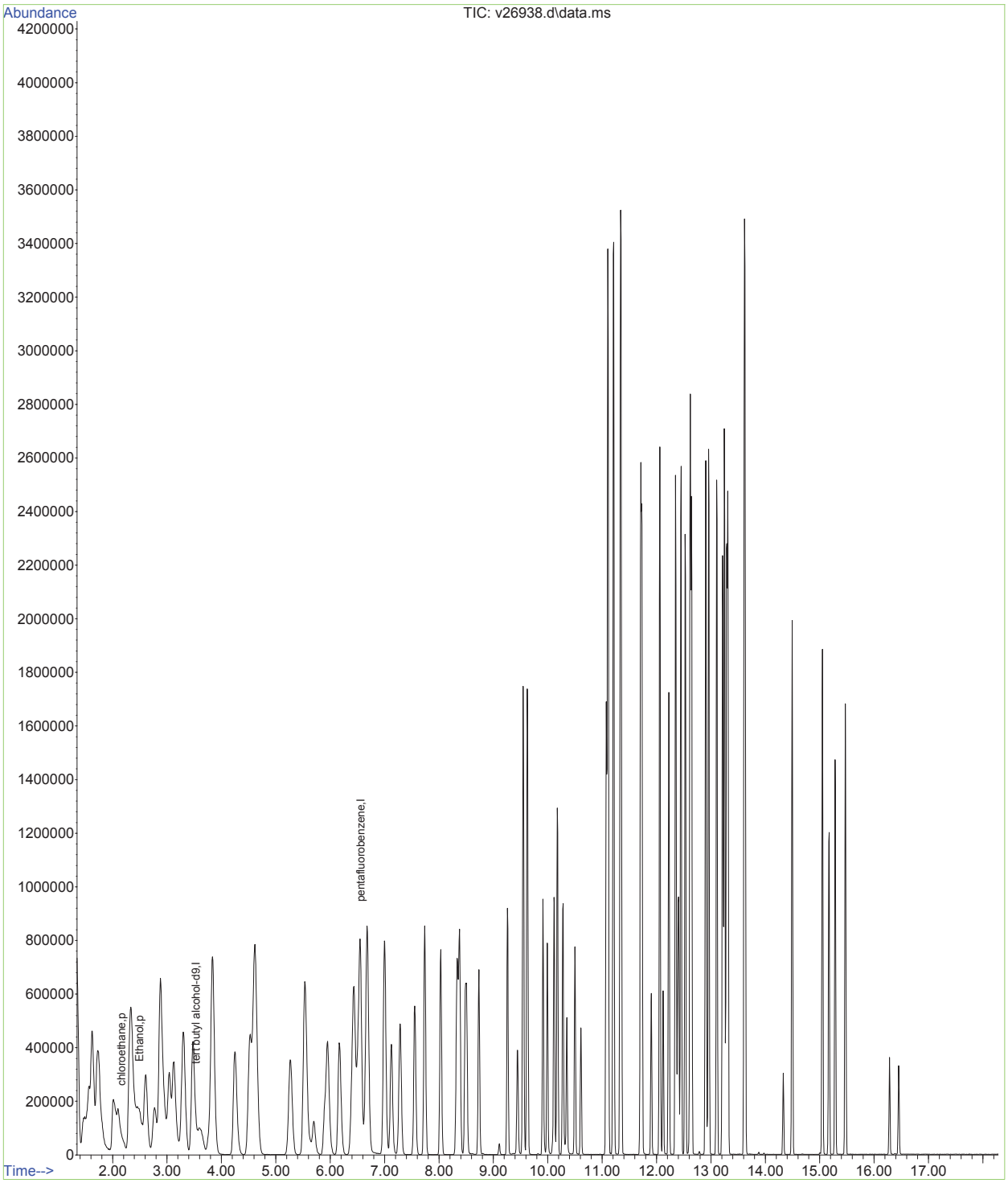
Quant Time: Oct 12 11:54:24 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.524	65	196490	500.00	ug/L	0.00
3) pentafluorobenzene	6.559	168	650576	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.489	45	137020m	4970.70	ug/L	
4) chloroethane	2.155	64	264750	50.00	ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

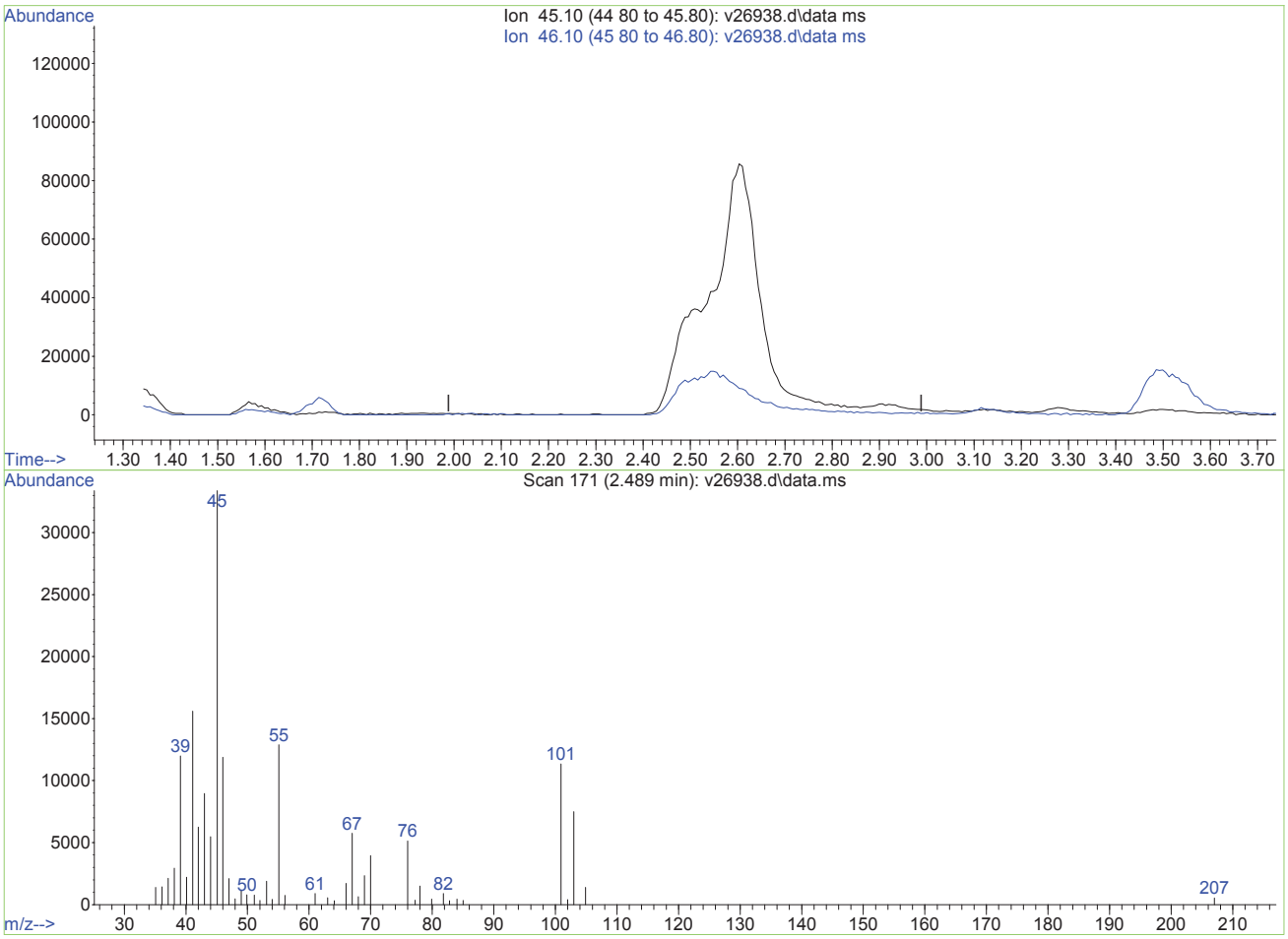
Data Path : O:\msv\1\databackup\v140107\
Data File : v26938.d
Acq On : 7 Jan 2014 3:08 pm
Operator : amym
Sample : icc1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 12 11:54:24 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Data Path : O:\msv\1\databackup\v140107\
Data File : v26938.d
Acq On : 7 Jan 2014 3:08 pm
Operator : amym
Sample : icc1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 12 11:50:01 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26938.d\data.ms

(2) Ethanol (p)

2.489min (-2.489) 0.00ug/L

response 0

Ion	Exp%	Act%
45.10	100	0.00
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

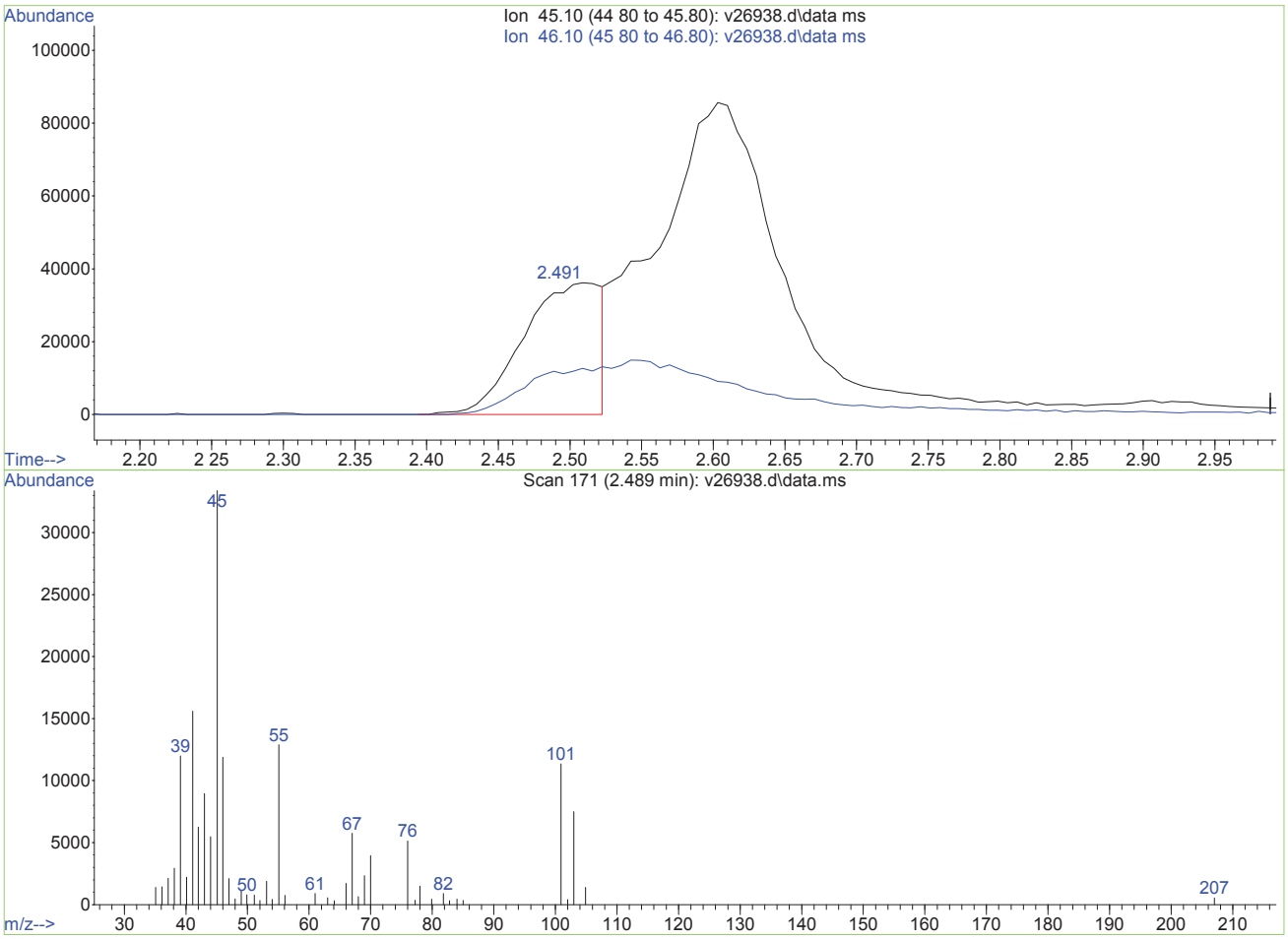
V26938.D edits: Ethanol

SGS ACCUTEST MC27802

Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26938.d
Acq On : 7 Jan 2014 3:08 pm
Operator : amym
Sample : icc1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 12 11:50:01 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26938.d\data.ms

(2) Ethanol (p)

2.489min (0.000) 4970.70ug/L m

response 137020

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26938.D edits: Ethanol

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26939.d
Acq On : 7 Jan 2014 3:35 pm
Operator : amym
Sample : ic1019-100
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 12 11:55:09 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

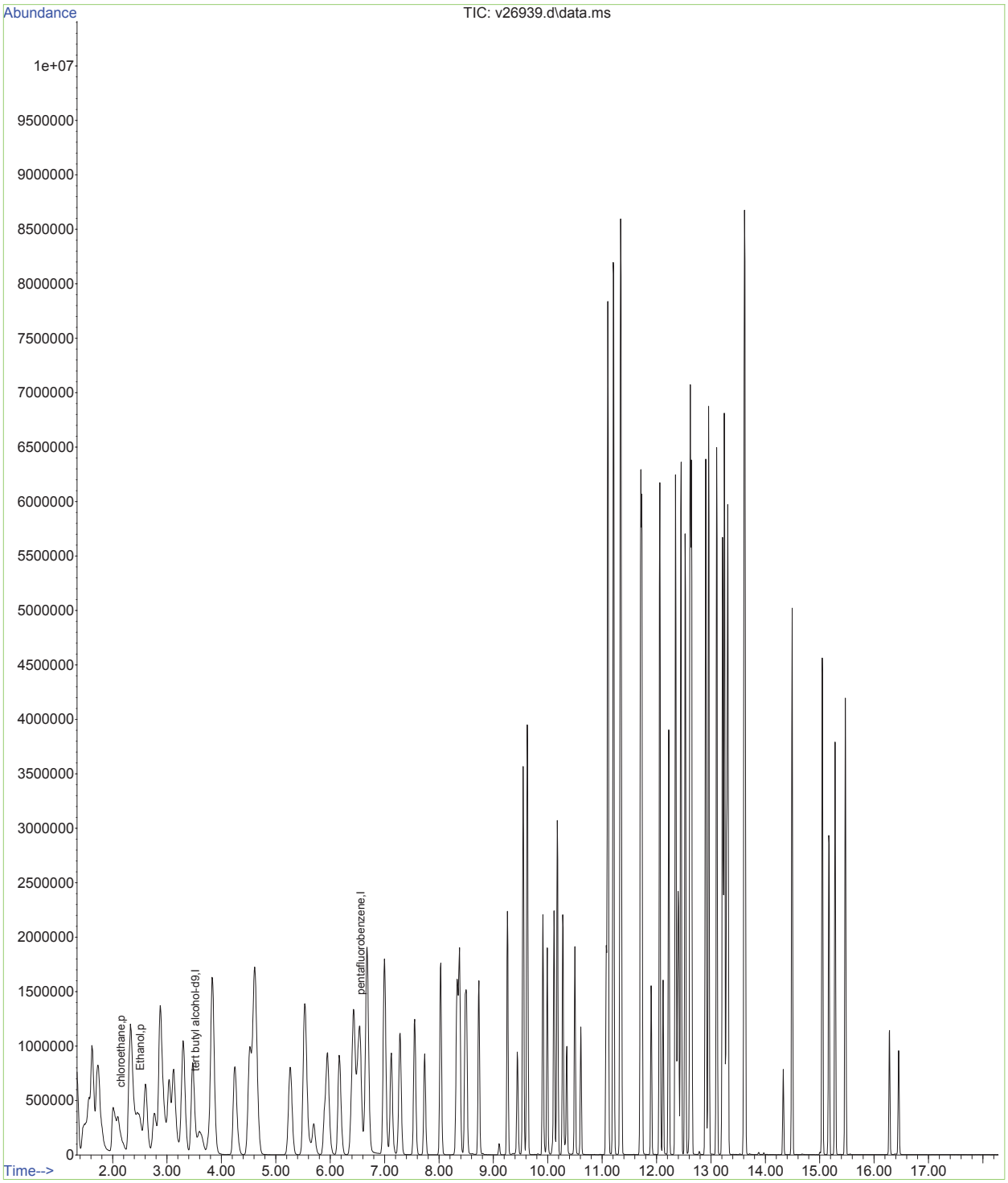
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.521	65	218199	500.00	ug/L	0.00
3) pentafluorobenzene	6.558	168	709327	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.502	45	415447m	13571.79	ug/L	
4) chloroethane	2.151	64	566729	98.17	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST
MC27802

Data Path : O:\msv\1\databackup\v140107\
Data File : v26939.d
Acq On : 7 Jan 2014 3:35 pm
Operator : amym
Sample : ic1019-100
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

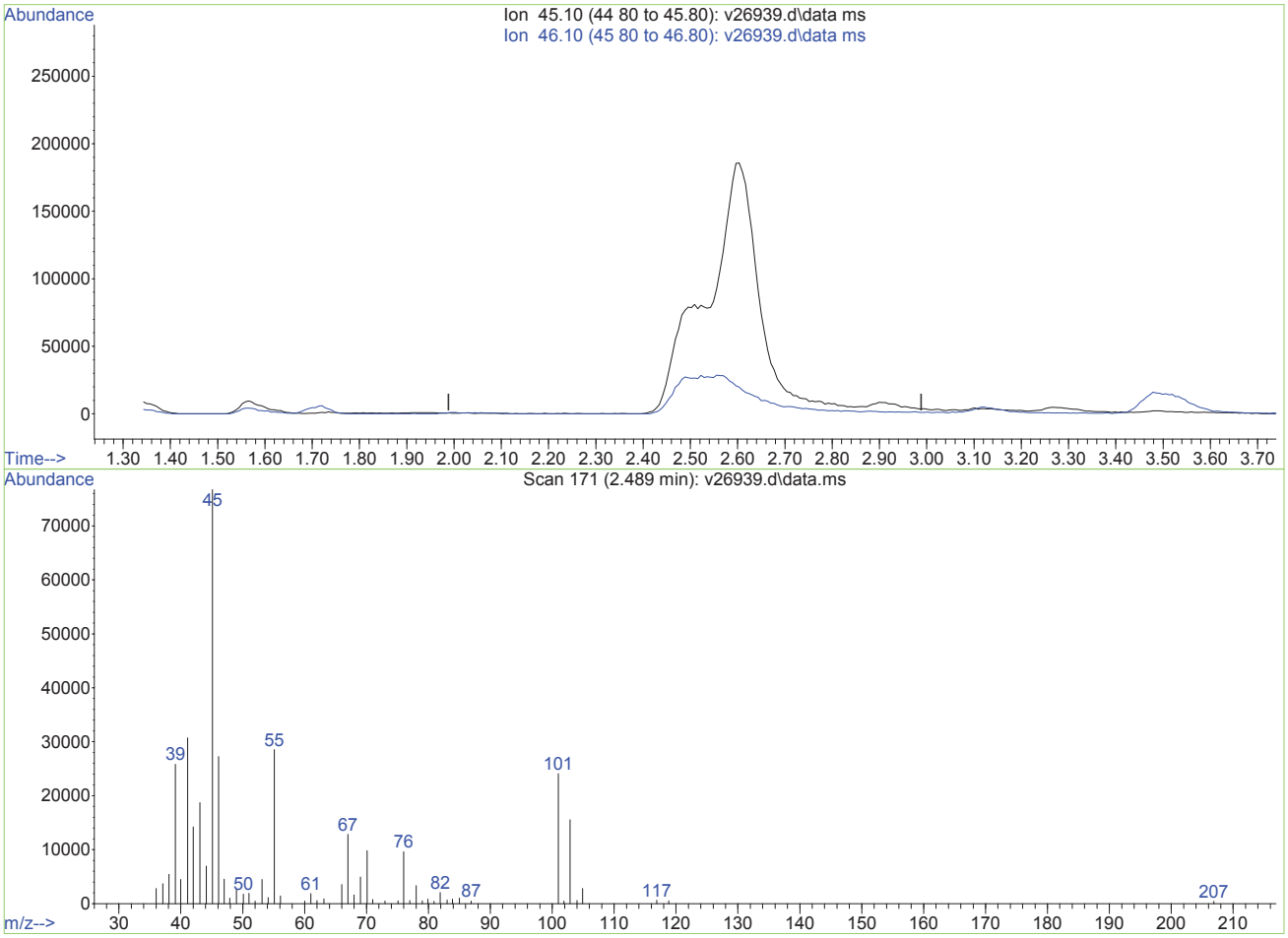
Quant Time: Oct 12 11:55:09 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26939.d
Acq On : 7 Jan 2014 3:35 pm
Operator : amym
Sample : ic1019-100
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 12 11:50:03 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26939.d\data.ms

(2) Ethanol (p)

2.489min (-2.489) 0.00ug/L

response 0

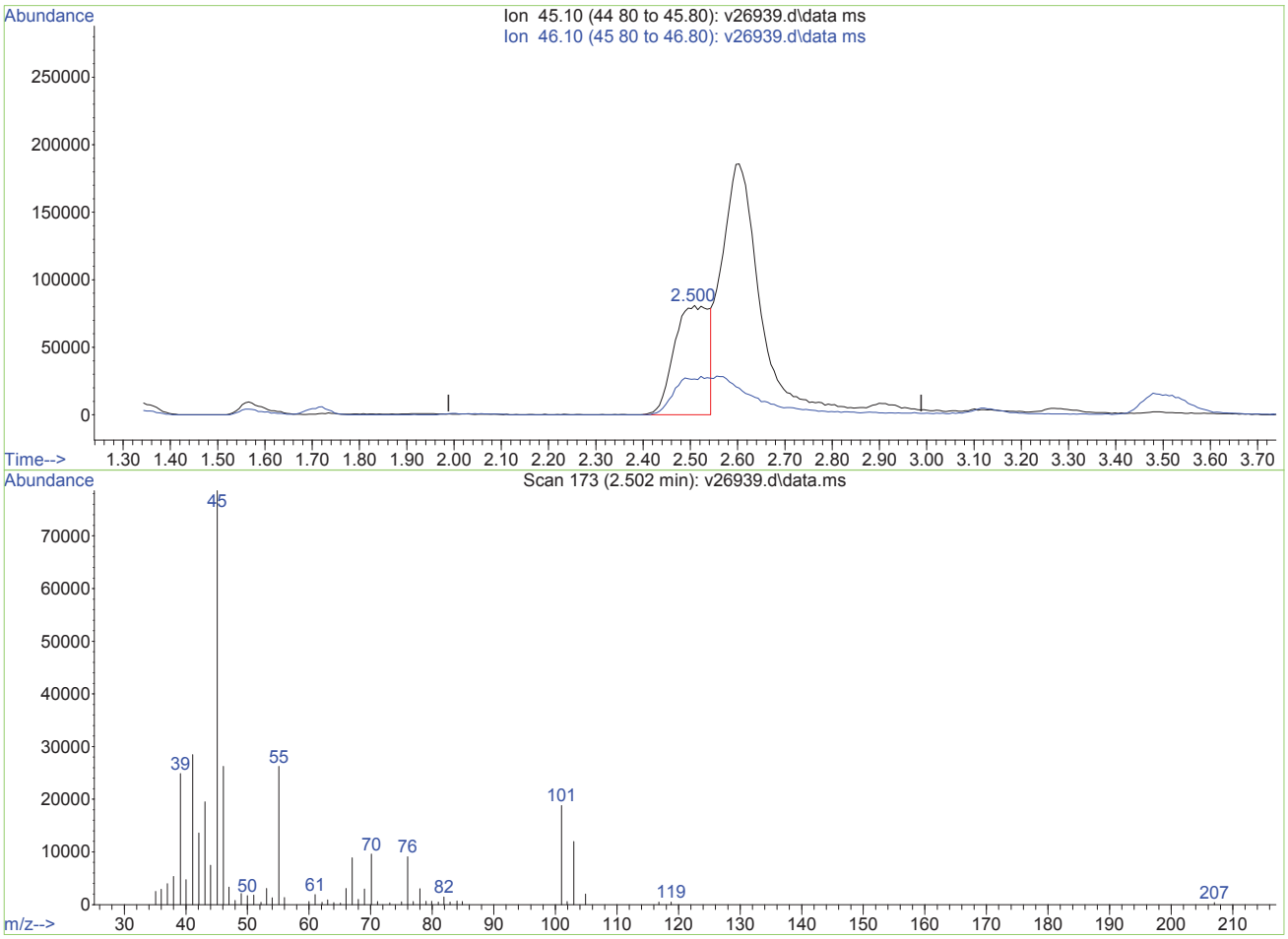
Ion	Exp%	Act%
45.10	100	0.00
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26939.D edits: Ethanol

Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26939.d
Acq On : 7 Jan 2014 3:35 pm
Operator : amym
Sample : ic1019-100
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 12 11:50:03 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26939.d\data.ms

(2) Ethanol (p)

2.502min (+0.013) 13571.79ug/L m

response 415447

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26939.D edits: Ethanol

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

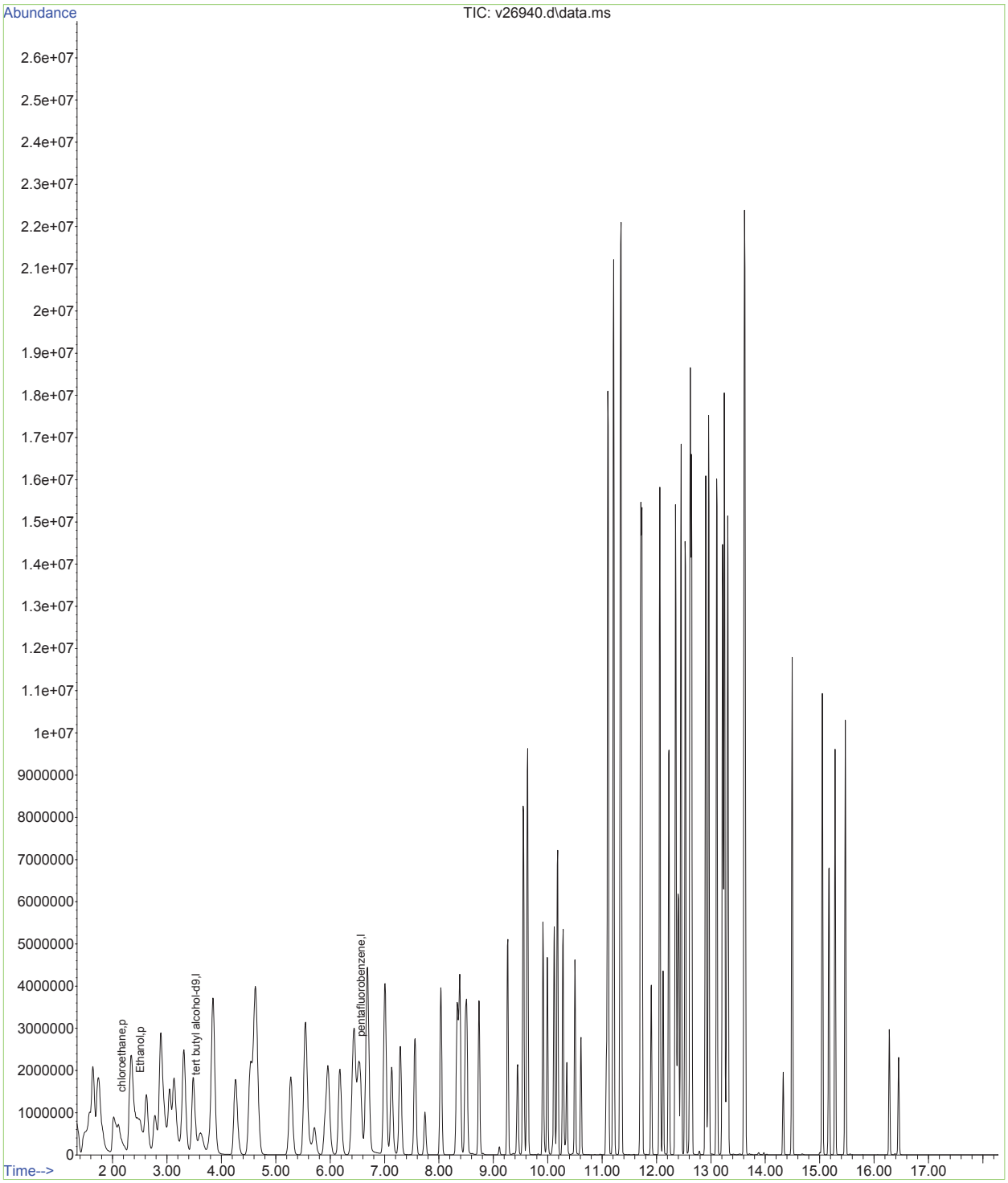
Quant Time: Oct 12 11:56:38 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.526	65	248311m	500.00	ug/L	0.00
3) pentafluorobenzene	6.565	168	827373	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.502	45	690608m	19824.86	ug/L	
4) chloroethane	2.165	64	1217177m	180.75	ug/L	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

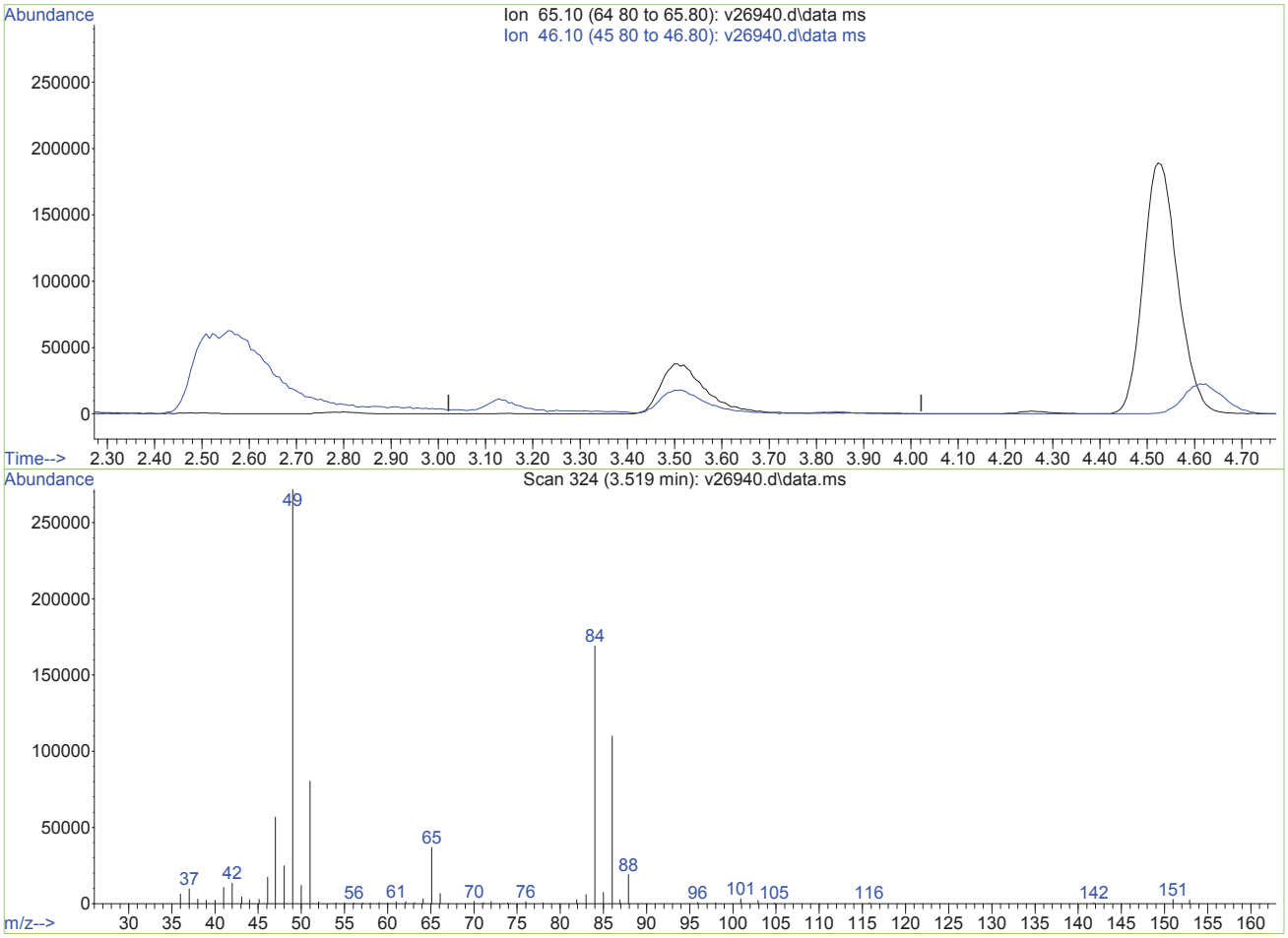
Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:56:38 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:50:05 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26940.d\data.ms

(1) tert butyl alcohol-d9 (I)

3.522min (-3.522) 0.00ug/L

response 0

Ion	Exp%	Act%
65.10	100	0.00
46.10	54.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

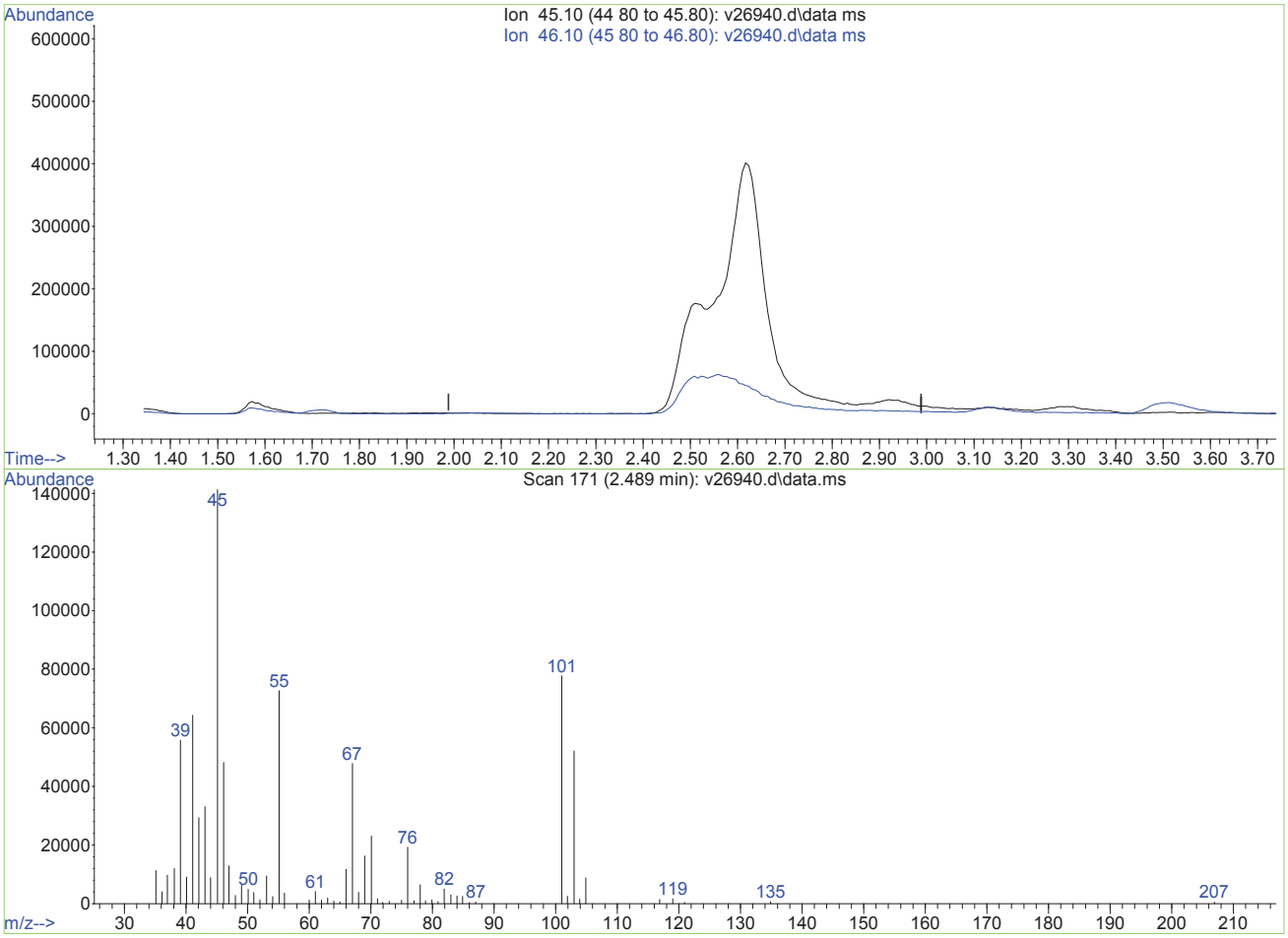
V26940.D edits: tert butyl alcohol-d9

SGS ACCUTEST MC27802

Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:50:05 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26940.d\data.ms

(2) Ethanol (p)

2.489min (-2.489) 0.00ug/L

response 0

Ion	Exp%	Act%
45.10	100	0.00
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

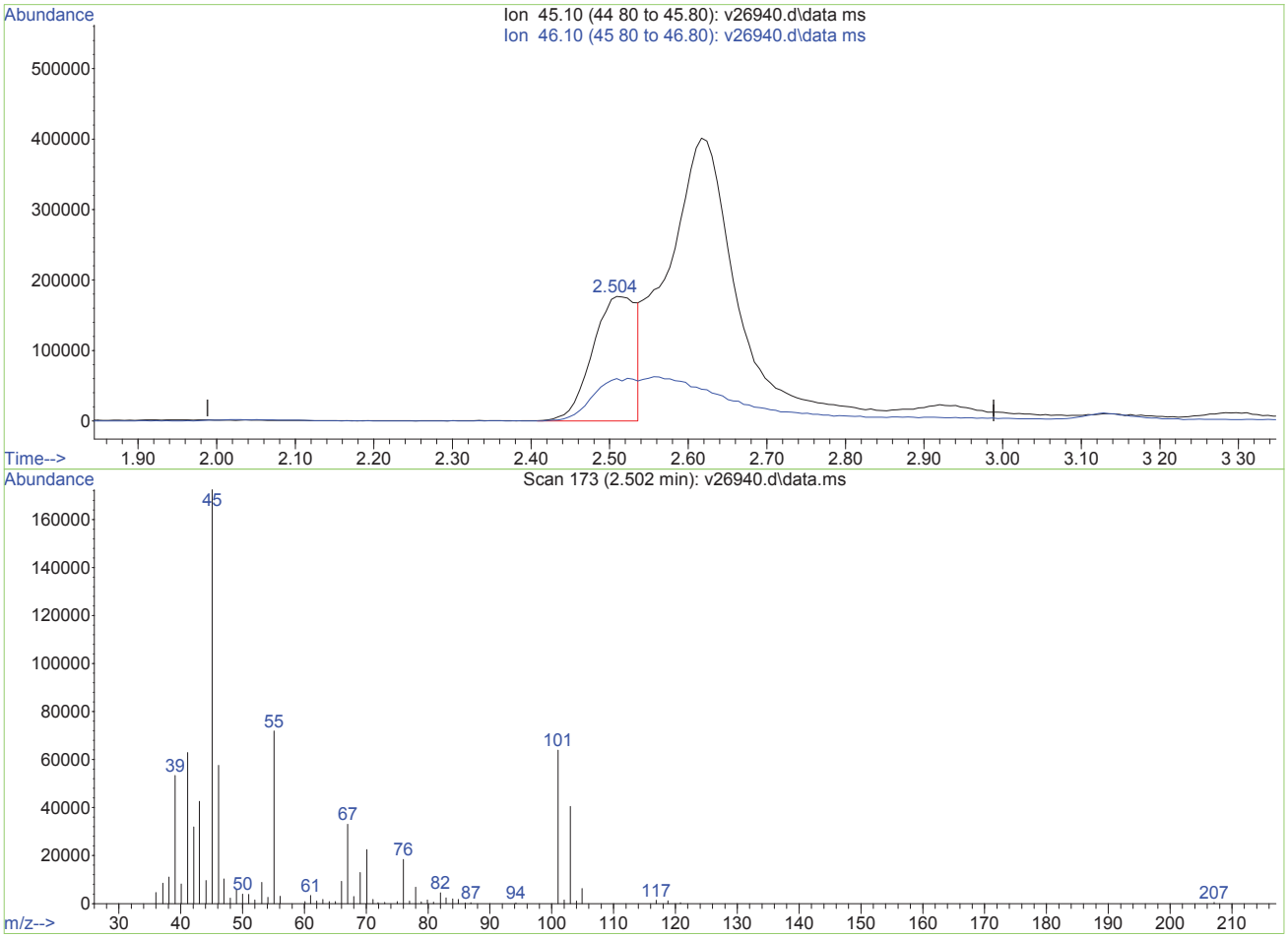
V26940.D edits: Ethanol

SGS ACCUTEST MC27802

Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:50:05 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26940.d\data.ms

(2) Ethanol (p)

2.502min (+0.014) 19824.86ug/L m

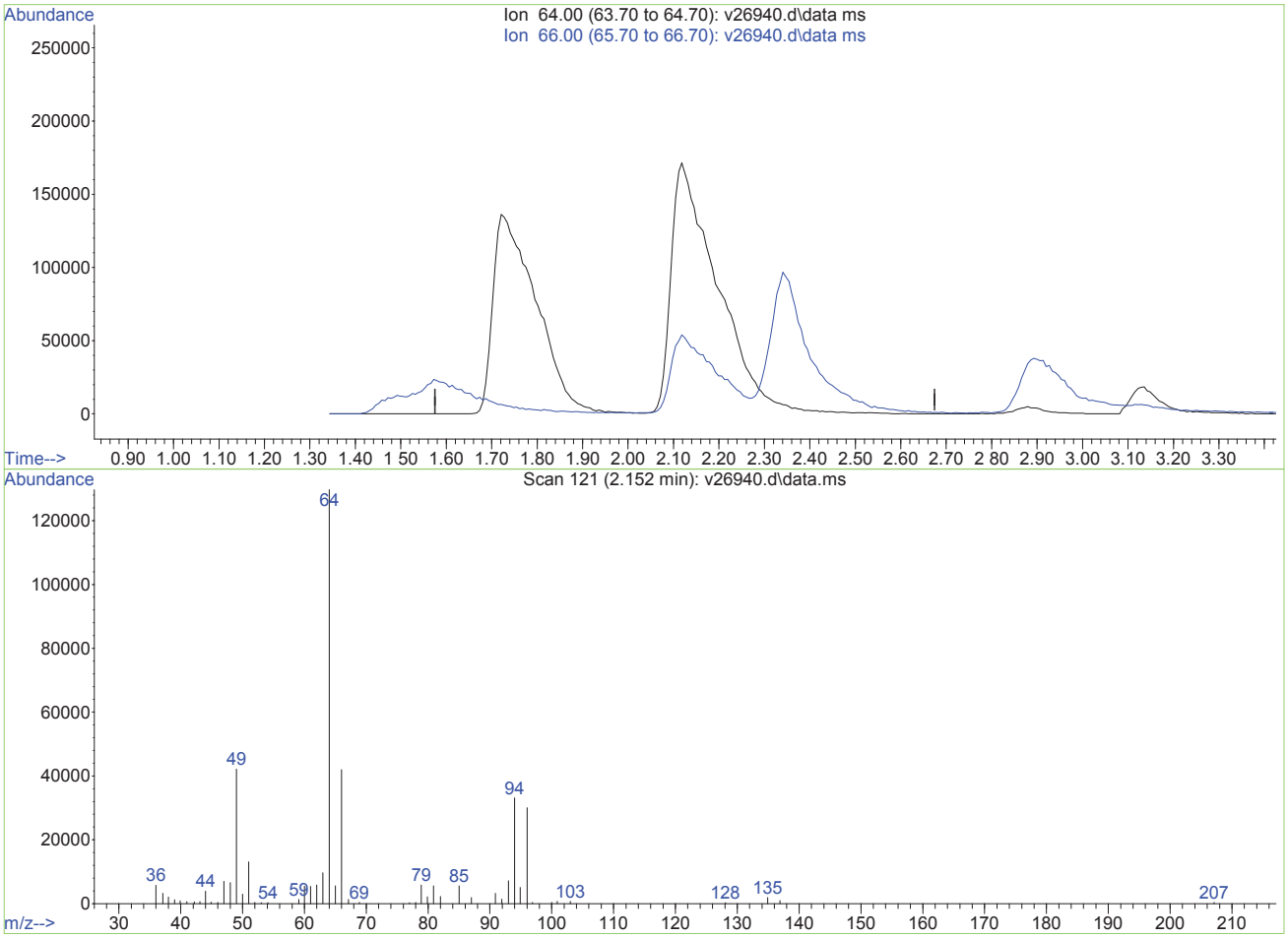
response 690608

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26940.D edits: Ethanol

Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:50:05 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26940.d\data.ms

(4) chloroethane (p)

2.155min (-2.155) 0.00ug/L

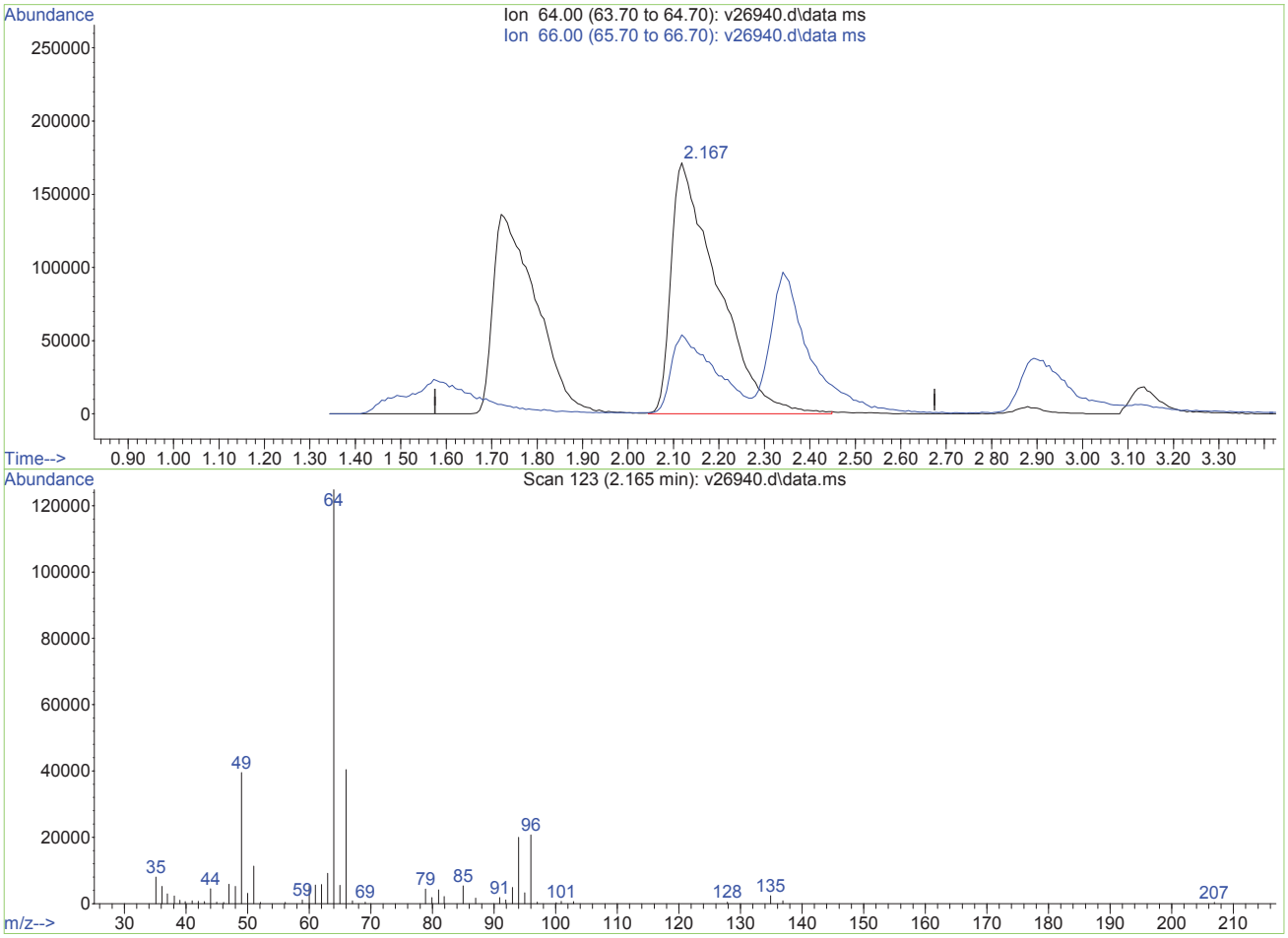
response 0

Ion	Exp%	Act%
64.00	100	0.00
66.00	34.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26940.D edits: chloroethane

Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:50:05 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26940.d\data.ms

(4) chloroethane (p)

2.165min (+0.010) 180.75ug/L m

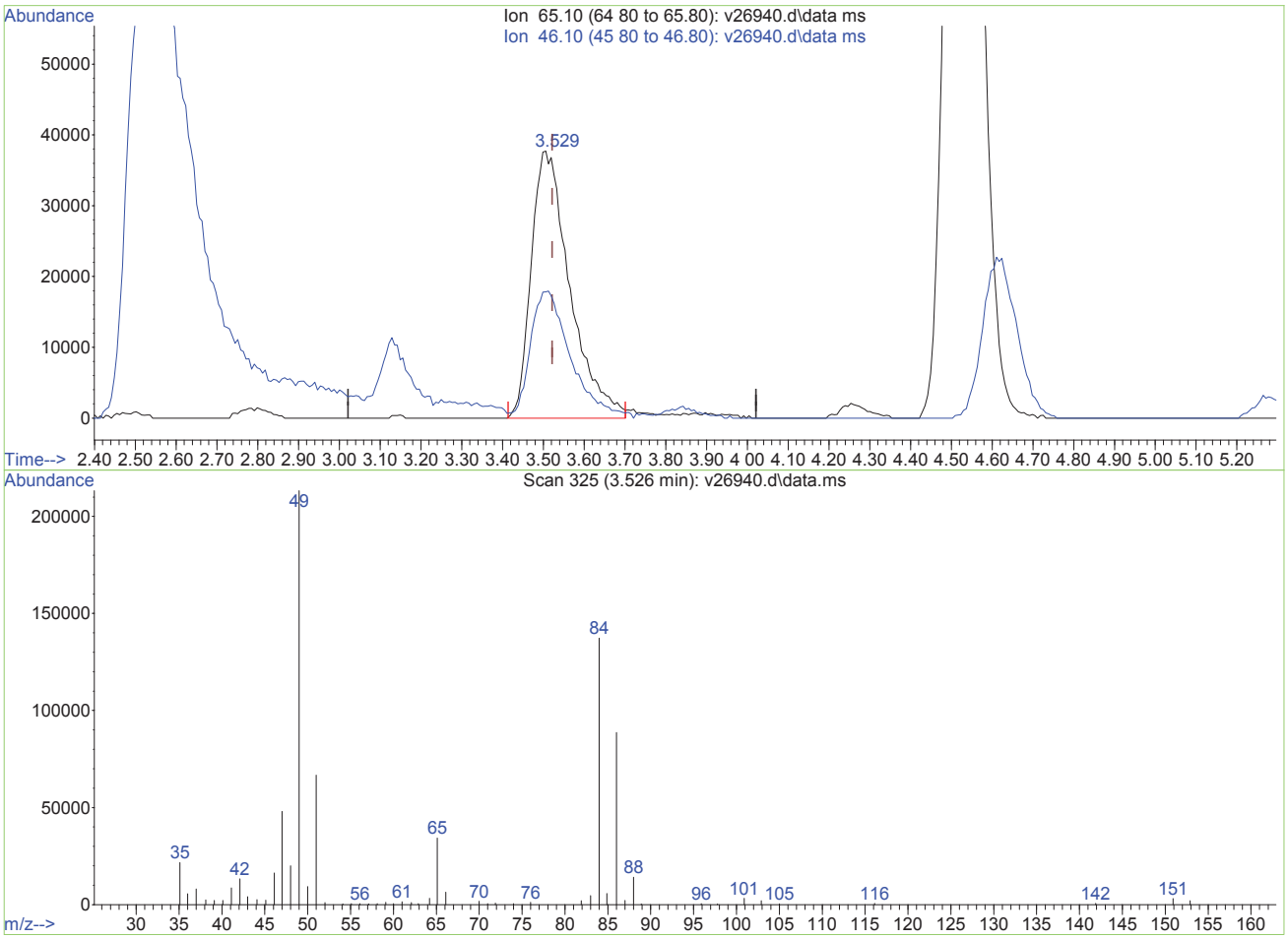
response 1217177

Ion	Exp%	Act%
64.00	100	100
66.00	34.60	32.37
0.00	0.00	0.00
0.00	0.00	0.00

V26940.D edits: chloroethane

Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:56:38 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26940.d\data.ms

(1) tert butyl alcohol-d9 (I)

3.526min (+0.004) 500.00ug/L m

response 248311

Ion	Exp%	Act%
65.10	100	100
46.10	54.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26940.D edits: tert butyl alcohol-d9

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26942.d
Acq On : 7 Jan 2014 5:47 pm
Operator : amym
Sample : ic1019-400
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 12 11:57:12 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

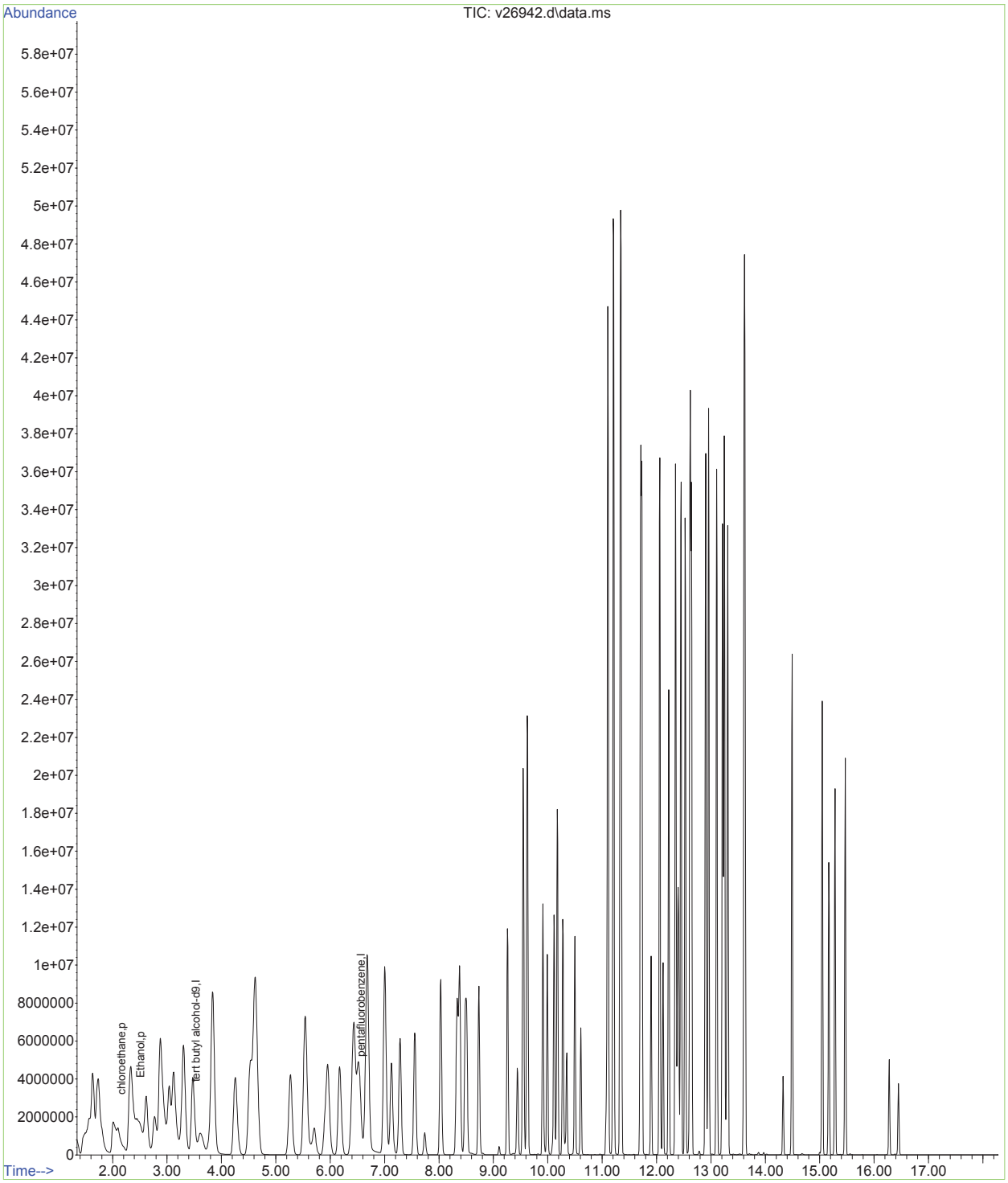
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.528	65	280929	500.00	ug/L	0.00
3) pentafluorobenzene	6.561	168	994052	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.509	45	1732790m	43966.69	ug/L	
4) chloroethane	2.160	64	2471921	305.53	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST MC27802

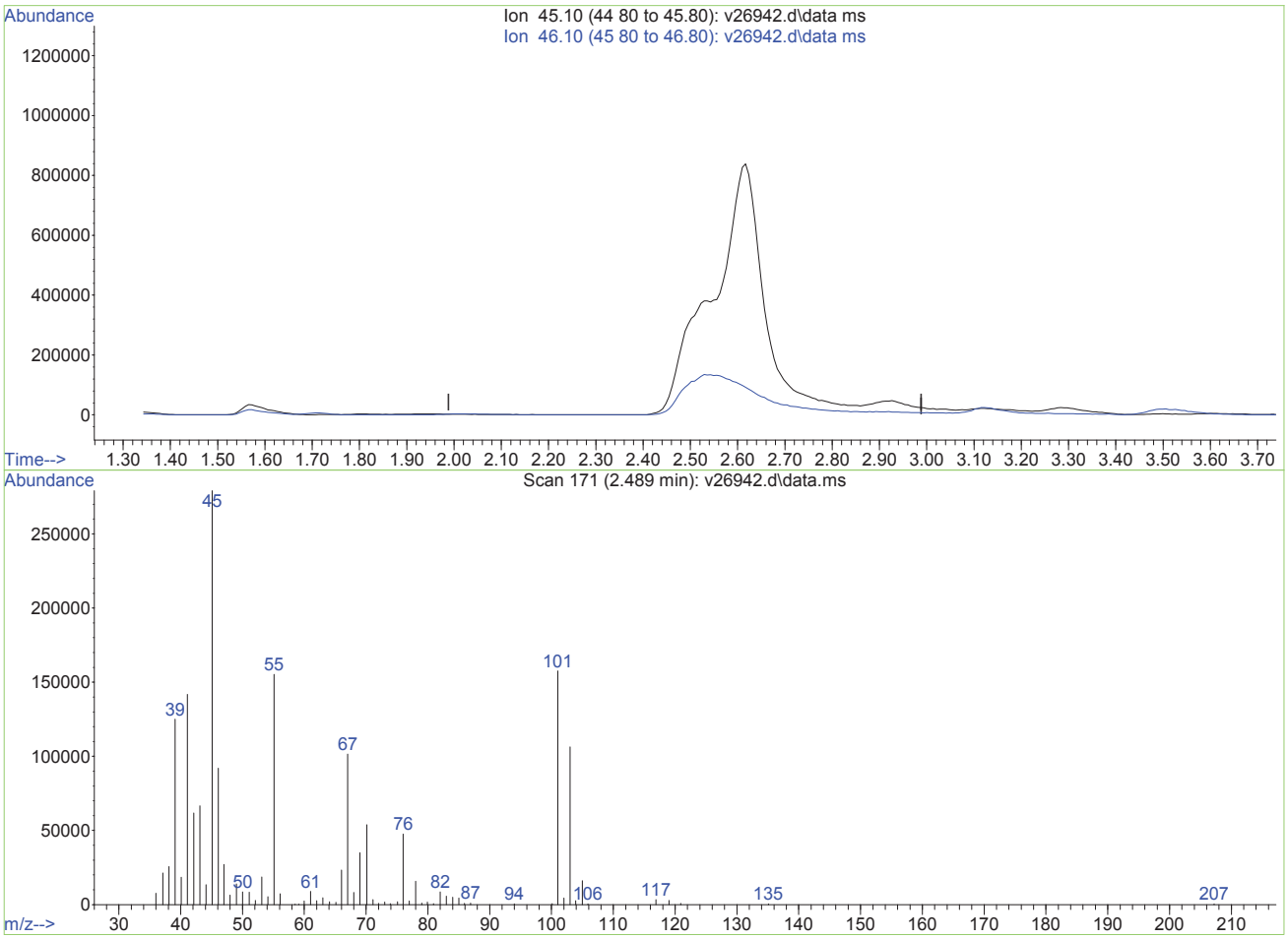
Data Path : O:\msv\1\databackup\v140107\
Data File : v26942.d
Acq On : 7 Jan 2014 5:47 pm
Operator : amym
Sample : ic1019-400
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 12 11:57:12 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Data Path : O:\msv\1\databackup\v140107\
Data File : v26942.d
Acq On : 7 Jan 2014 5:47 pm
Operator : amym
Sample : ic1019-400
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 12 11:50:07 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26942.d\data.ms

(2) Ethanol (p)

2.489min (-2.489) 0.00ug/L

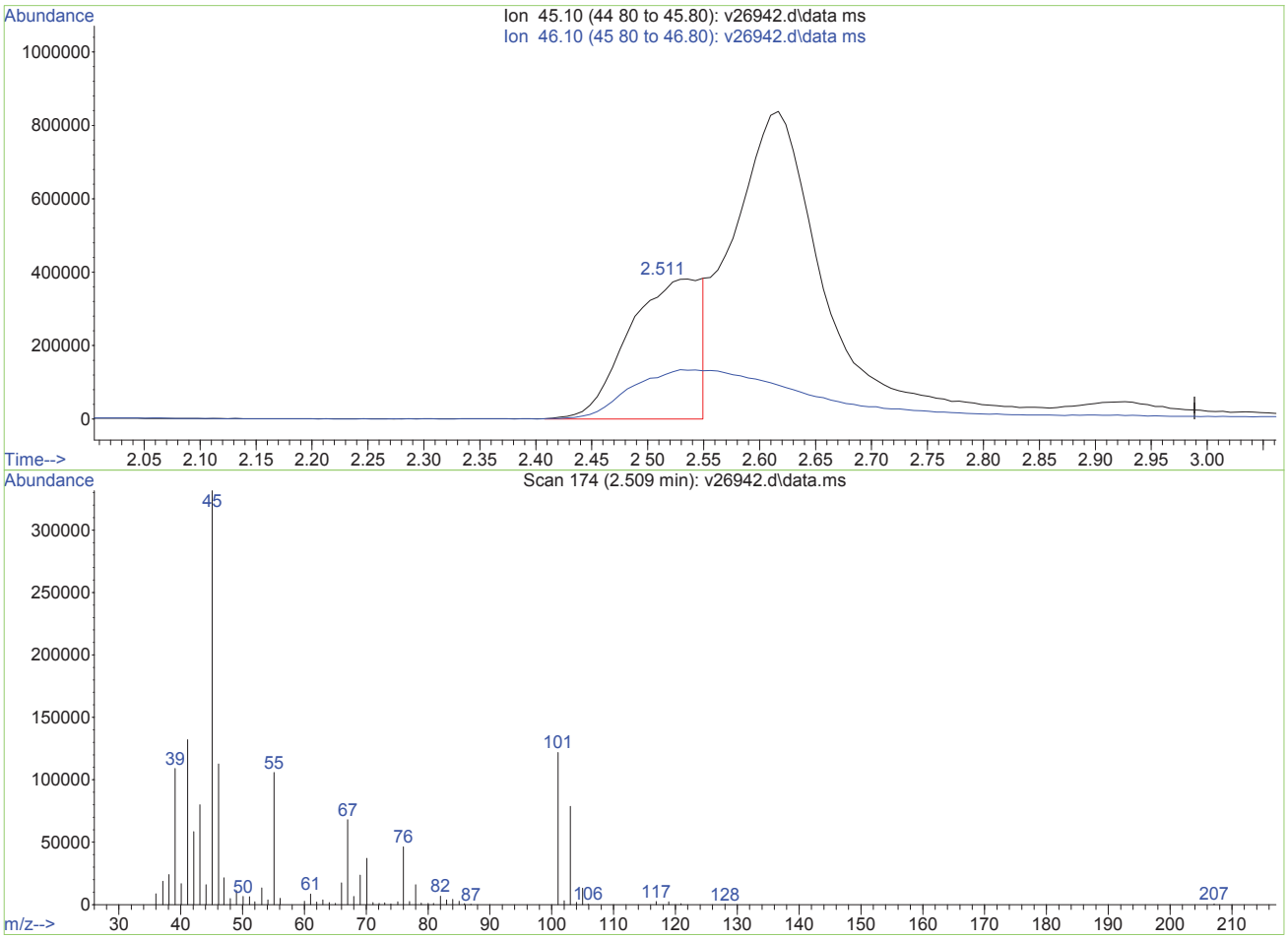
response 0

Ion	Exp%	Act%
45.10	100	0.00
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26942.D edits: Ethanol

Data Path : O:\msv\1\databackup\v140107\
Data File : v26942.d
Acq On : 7 Jan 2014 5:47 pm
Operator : amym
Sample : ic1019-400
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 12 11:50:07 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26942.d\data.ms

(2) Ethanol (p)

2.509min (+0.020) 43966.69ug/L m

response 1732790

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26942.D edits: Ethanol

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26944.d
Acq On : 7 Jan 2014 7:05 pm
Operator : amym
Sample : icv1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 12 12:04:13 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

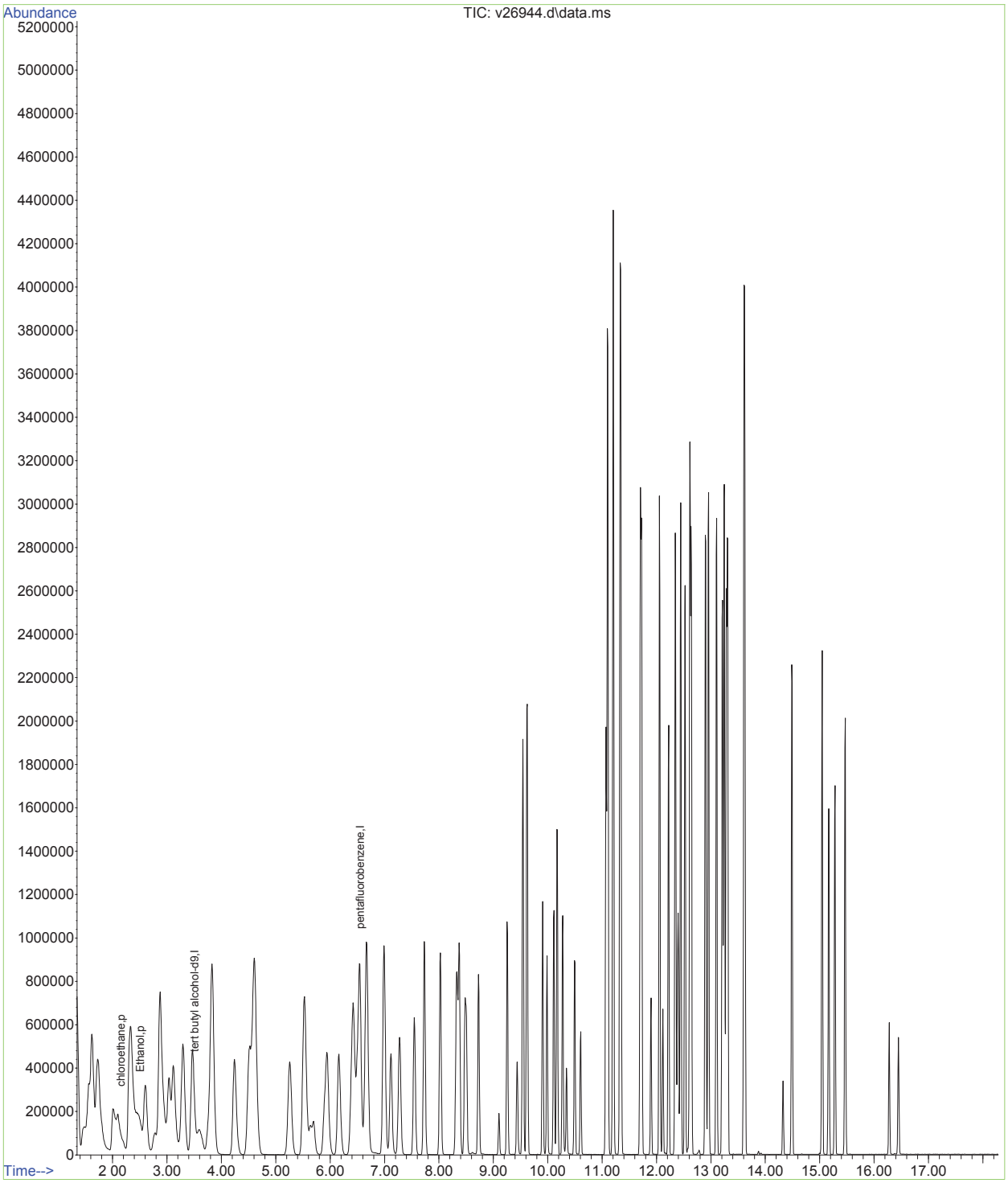
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.508	65	215524	500.00	ug/L	-0.01
3) pentafluorobenzene	6.550	168	735695	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.502	45	219095m	6281.66	ug/L	
4) chloroethane	2.149	64	314843	55.64	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST MC27802

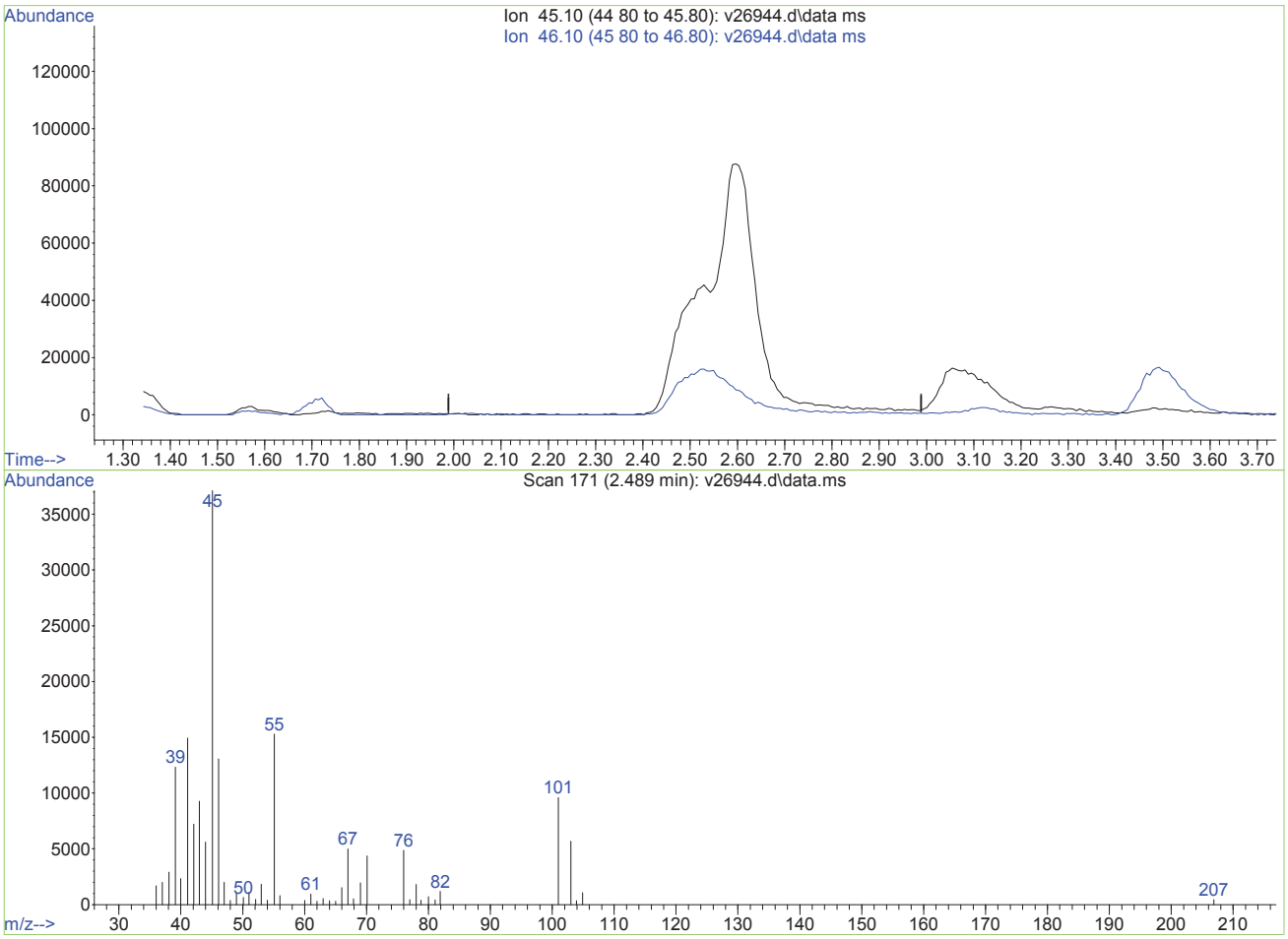
Data Path : O:\msv\1\databackup\v140107\
Data File : v26944.d
Acq On : 7 Jan 2014 7:05 pm
Operator : amym
Sample : icv1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 12 12:04:13 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Data Path : O:\msv\1\databackup\v140107\
Data File : v26944.d
Acq On : 7 Jan 2014 7:05 pm
Operator : amym
Sample : icv1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 12 12:03:55 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



TIC: v26944.d\data.ms

(2) Ethanol (p)

2.489min (-2.489) 0.00ug/L

response 0

Ion	Exp%	Act%
45.10	100	0.00
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

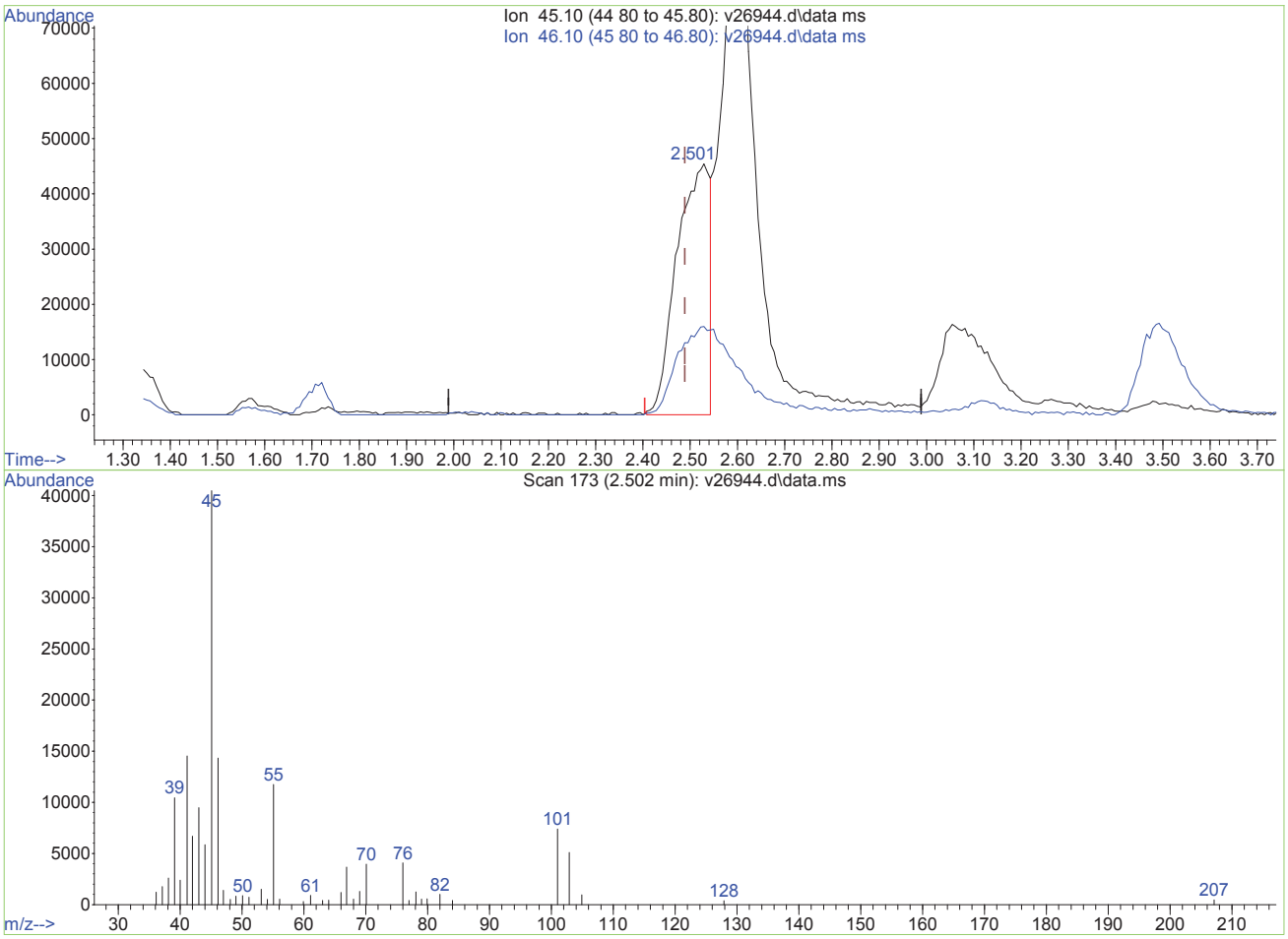
V26944.D edits: Ethanol

SGS ACCUTEST MC27802

Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26944.d
Acq On : 7 Jan 2014 7:05 pm
Operator : amym
Sample : icv1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 12 12:03:55 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



TIC: v26944.d\data.ms

(2) Ethanol (p)

2.502min (+0.013) 6281.66ug/L m

response 219095

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26944.D edits: Ethanol

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140122\
Data File : v27246.d
Acq On : 22 Jan 2014 8:45 am
Operator : amym
Sample : cc1019-50
Misc : MS30995,MSV1029,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 17 18:28:38 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.526	65	180058	500.00	ug/L	0.00
3) pentafluorobenzene	6.583	168	605724	50.00	ug/L	0.02
Target Compounds						Qvalue
2) Ethanol	2.520	45	240774	8414.09	ug/L	# 1
4) chloroethane	2.167	64	235878	50.55	ug/L	97

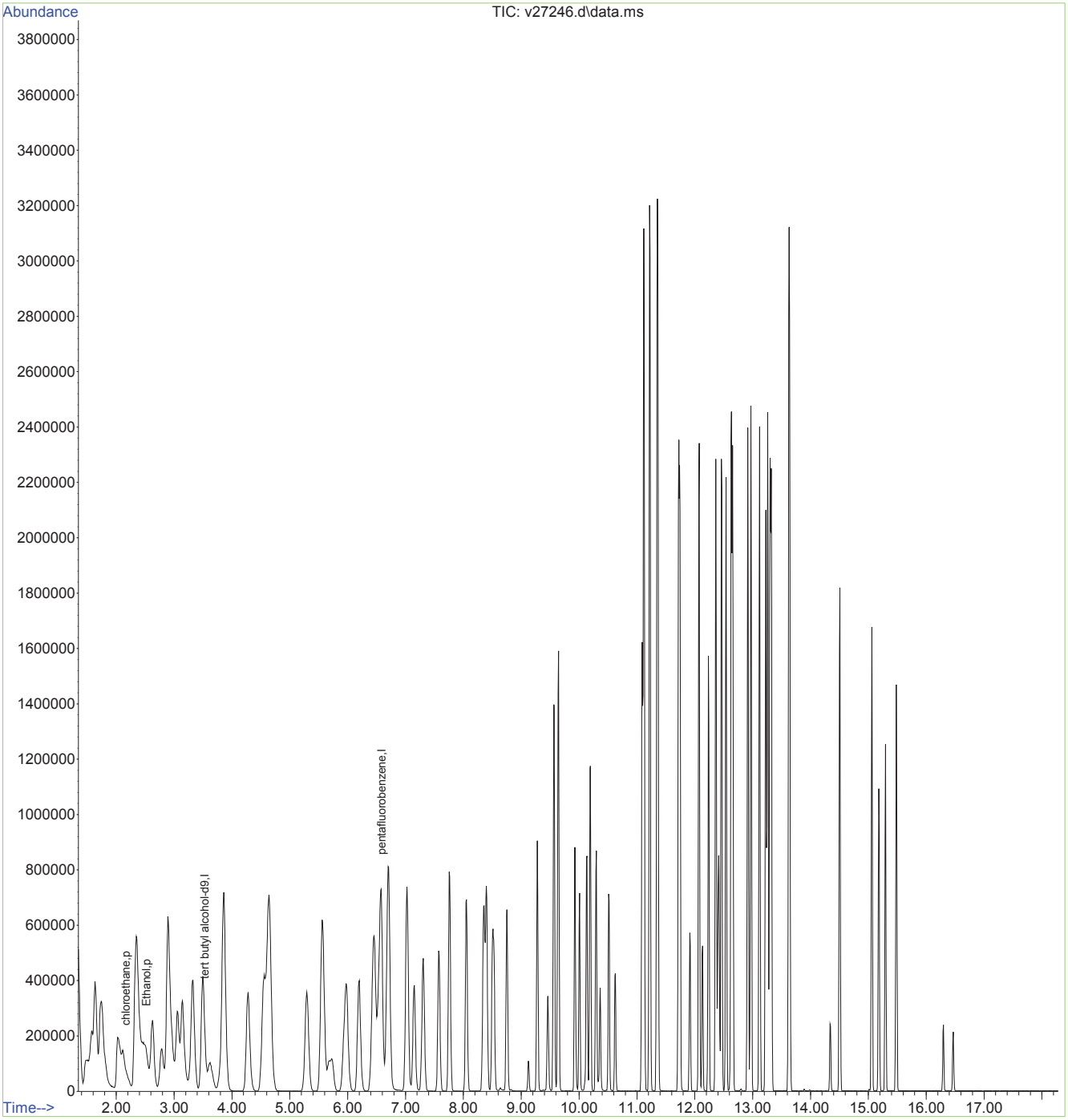
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST MC27802

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140122\
Data File : v27246.d
Acq On : 22 Jan 2014 8:45 am
Operator : amym
Sample : cc1019-50
Misc : MS30995,MSV1029,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 17 18:28:38 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140123\
Data File : v27284.d
Acq On : 23 Jan 2014 3:24 pm
Operator : amym
Sample : bs
Misc : MS31004,MSV1030,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 17 22:32:59 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

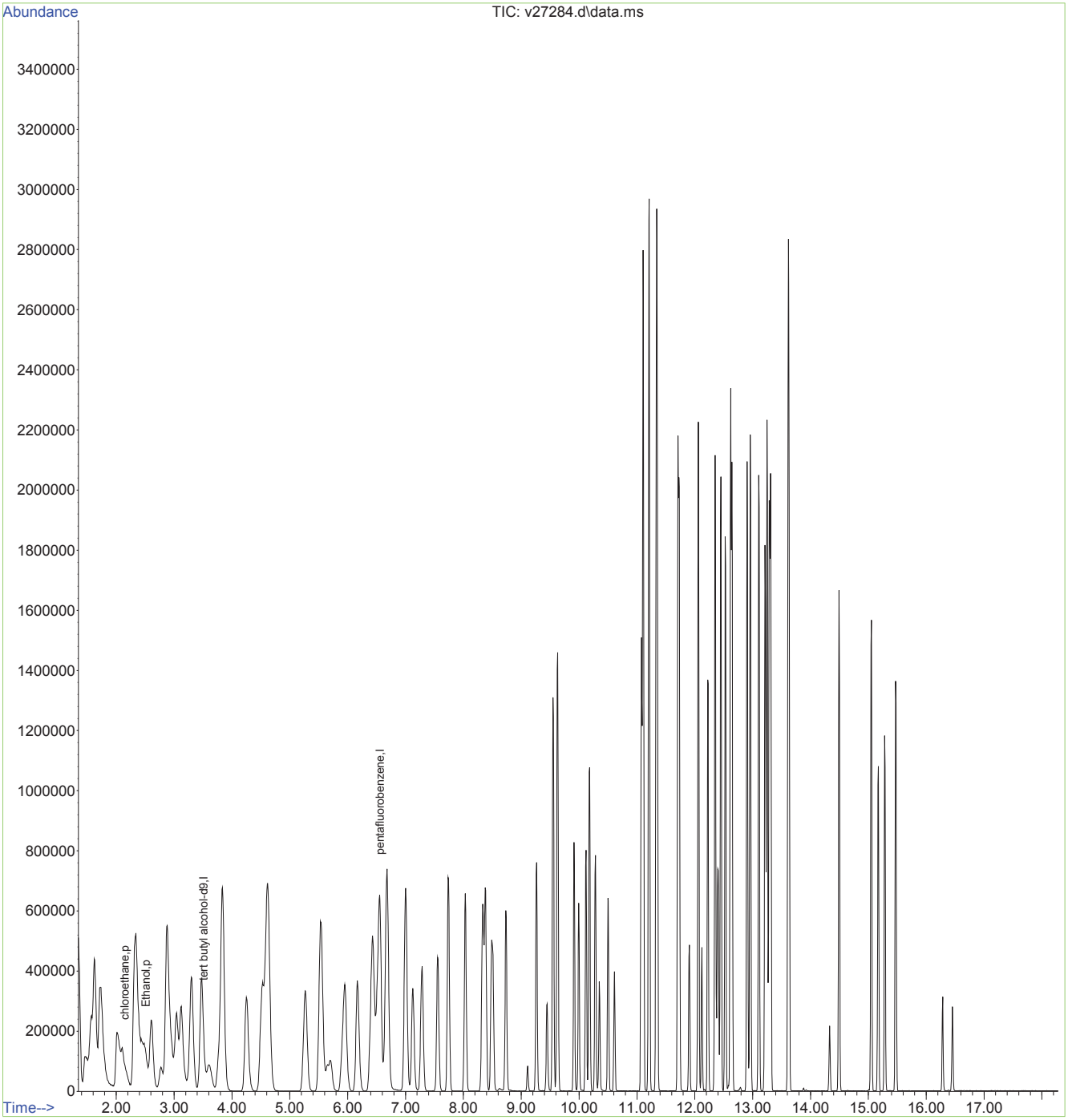
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.508	65	158449	500.00	ug/L	-0.01
3) pentafluorobenzene	6.560	168	555218	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.509	45	205905	8163.36	ug/L	# 1
4) chloroethane	2.148	64	254563	59.67	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140123\
Data File : v27284.d
Acq On : 23 Jan 2014 3:24 pm
Operator : amym
Sample : bs
Misc : MS31004,MSV1030,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 17 22:32:59 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140122\
Data File : v27255.d
Acq On : 22 Jan 2014 12:44 pm
Operator : amym
Sample : mc27802-4
Misc : MS31004,MSV1029,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 17 18:33:18 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.545	65	145067	500.00	ug/L	0.02
3) pentafluorobenzene	6.597	168	414949	50.00	ug/L	0.04

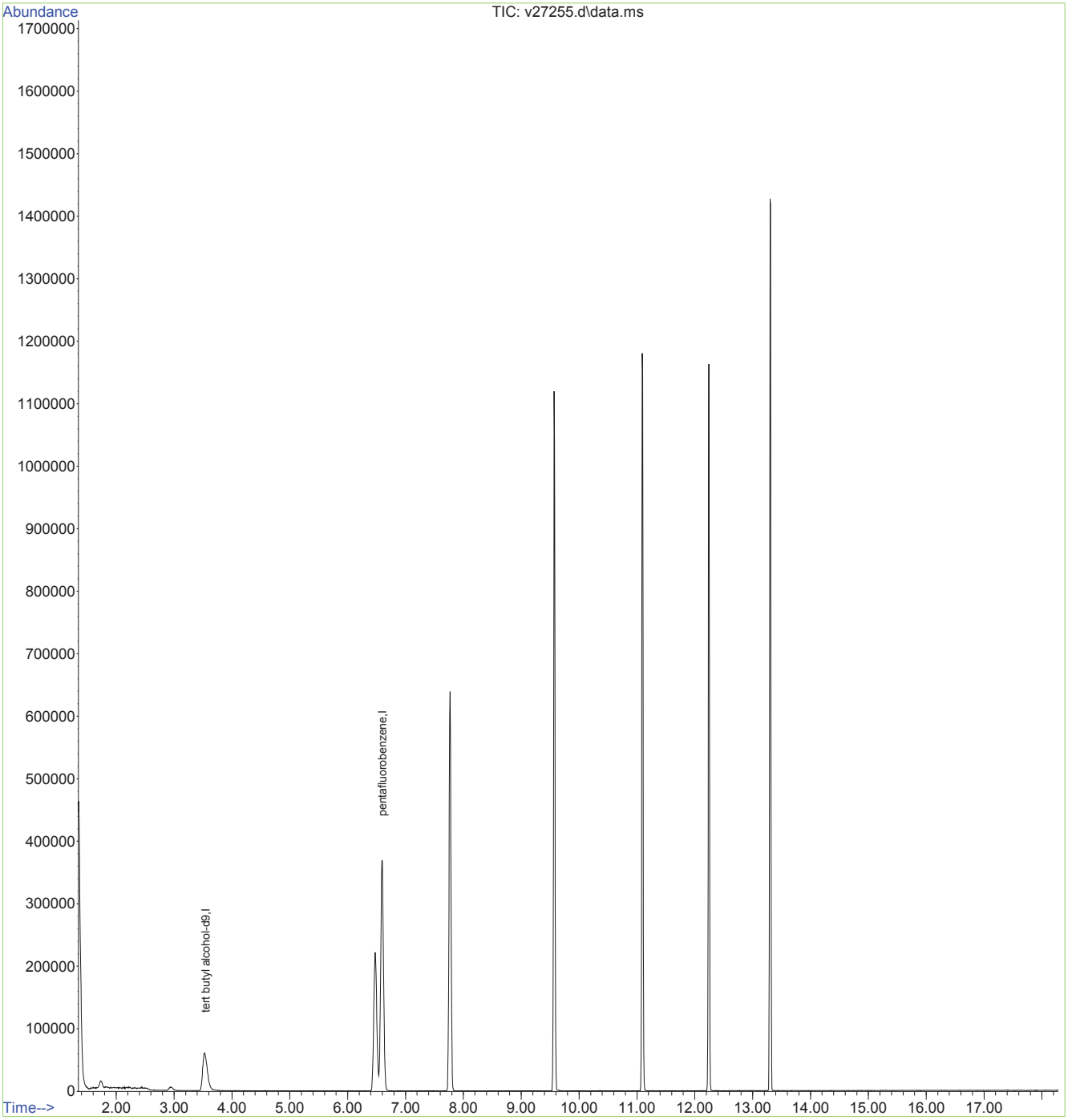
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140122\
Data File : v27255.d
Acq On : 22 Jan 2014 12:44 pm
Operator : amym
Sample : mc27802-4
Misc : MS31004,MSV1029,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 17 18:33:18 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140122\
Data File : v27264.d
Acq On : 22 Jan 2014 4:42 pm
Operator : amym
Sample : mc27802-2
Misc : MS31004,MSV1029,,,,5,1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Nov 17 18:38:01 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.541	65	381248	500.00	ug/L	# 0.02
3) pentafluorobenzene	6.591	168	694621	50.00	ug/L	0.03

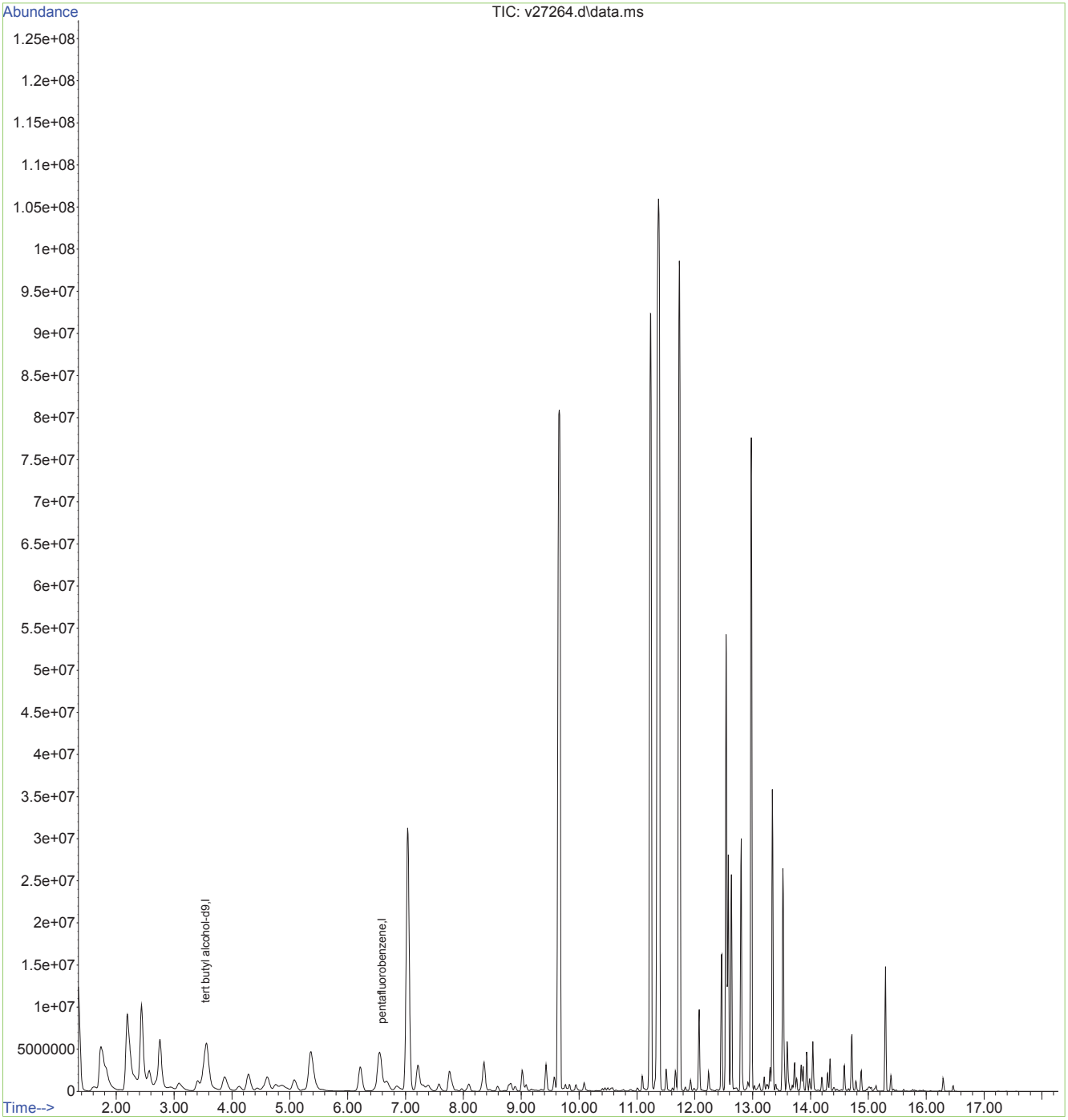
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140122\
Data File : v27264.d
Acq On : 22 Jan 2014 4:42 pm
Operator : amym
Sample : mc27802-2
Misc : MS31004,MSV1029,,,,5,1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Nov 17 18:38:01 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140122\
Data File : v27265.d
Acq On : 22 Jan 2014 5:08 pm
Operator : amym
Sample : mc27802-3
Misc : MS31004,MSV1029,,,,5,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Nov 17 18:38:39 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	0.000	65	0	0.00	ug/L	-3.52
3) pentafluorobenzene	6.594	168	756409	50.00	ug/L	0.04

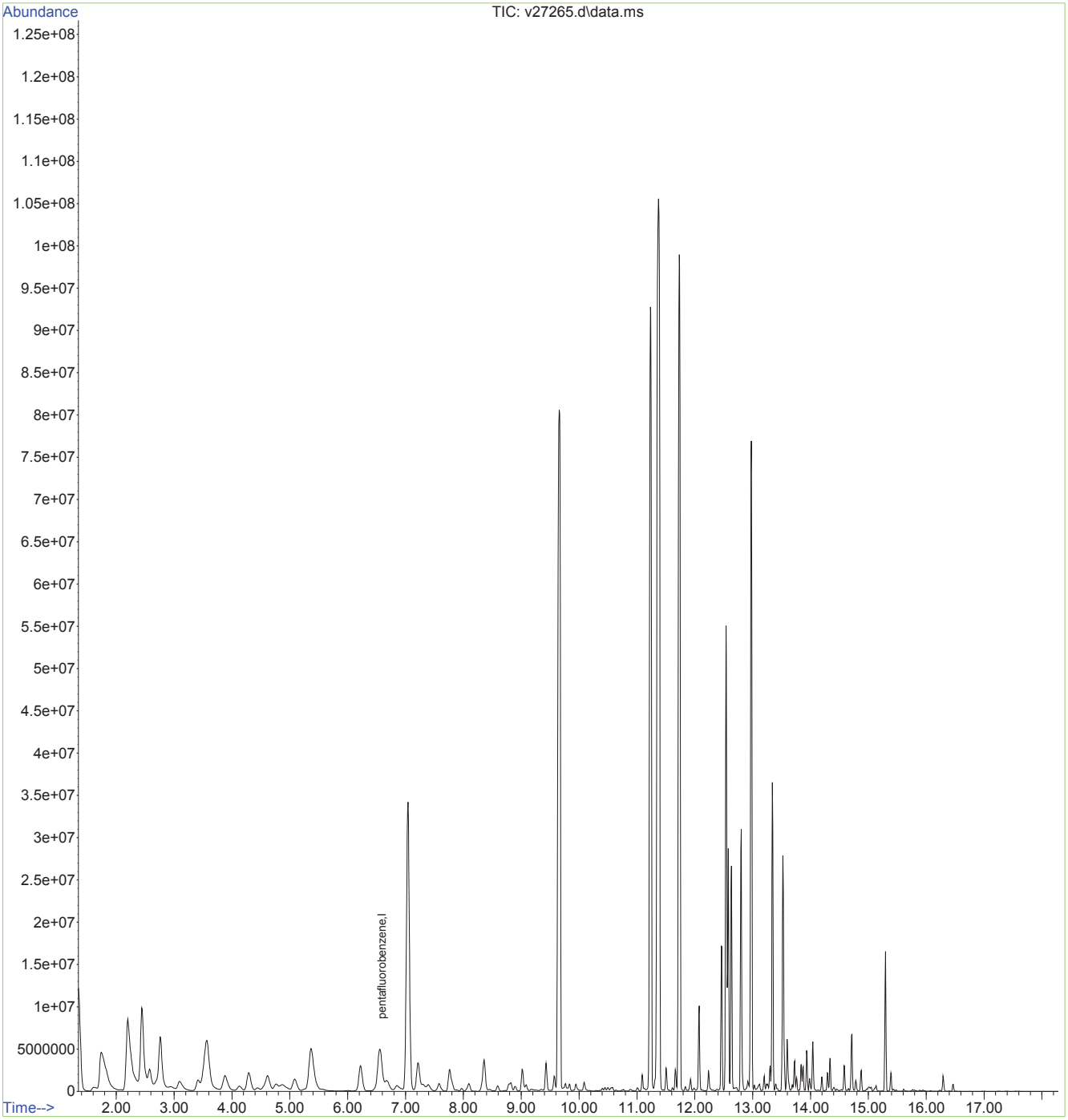
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140122\
Data File : v27265.d
Acq On : 22 Jan 2014 5:08 pm
Operator : amym
Sample : mc27802-3
Misc : MS31004,MSV1029,,,,5,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Nov 17 18:38:39 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140123\
Data File : v27293.d
Acq On : 23 Jan 2014 7:29 pm
Operator : amym
Sample : mc27802-1
Misc : MS31004,MSV1030,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 17 22:38:58 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

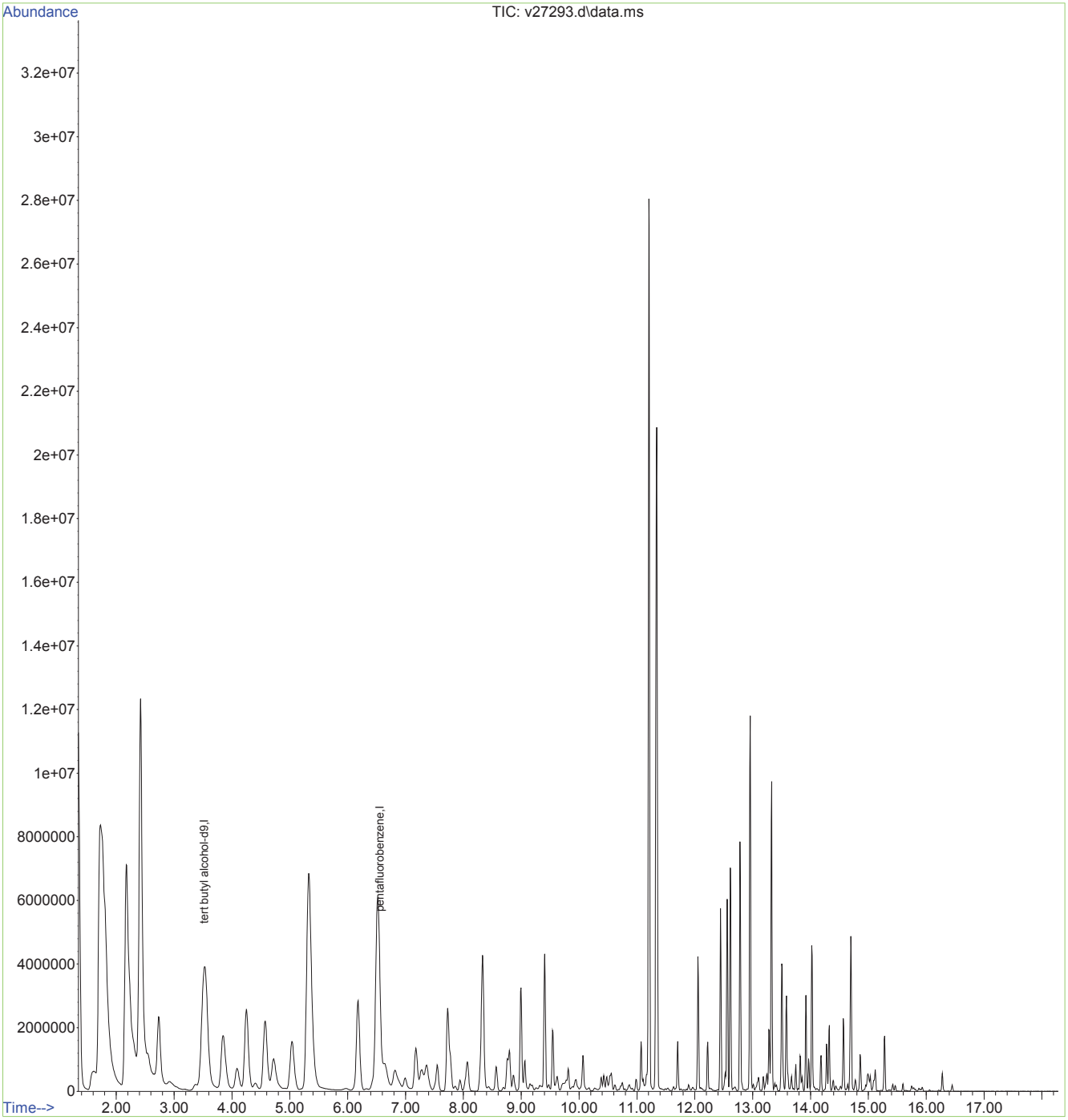
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.518	65	311612	500.00	ug/L	# 0.00
3) pentafluorobenzene	6.554	168	611087	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.430	45	9225	Below Cal		# 1

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140123\
Data File : v27293.d
Acq On : 23 Jan 2014 7:29 pm
Operator : amym
Sample : mc27802-1
Misc : MS31004,MSV1030,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 17 22:38:58 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140122\
Data File : v27247.d
Acq On : 22 Jan 2014 9:12 am
Operator : amym
Sample : bs
Misc : MS30995,MSV1029,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 17 18:30:25 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.532	65	174385	500.00	ug/L	0.01
3) pentafluorobenzene	6.586	168	564468	50.00	ug/L	0.03
Target Compounds						Qvalue
2) Ethanol	2.529	45	247856	8973.49	ug/L #	1
4) chloroethane	2.171	64	268713	61.99	ug/L	95

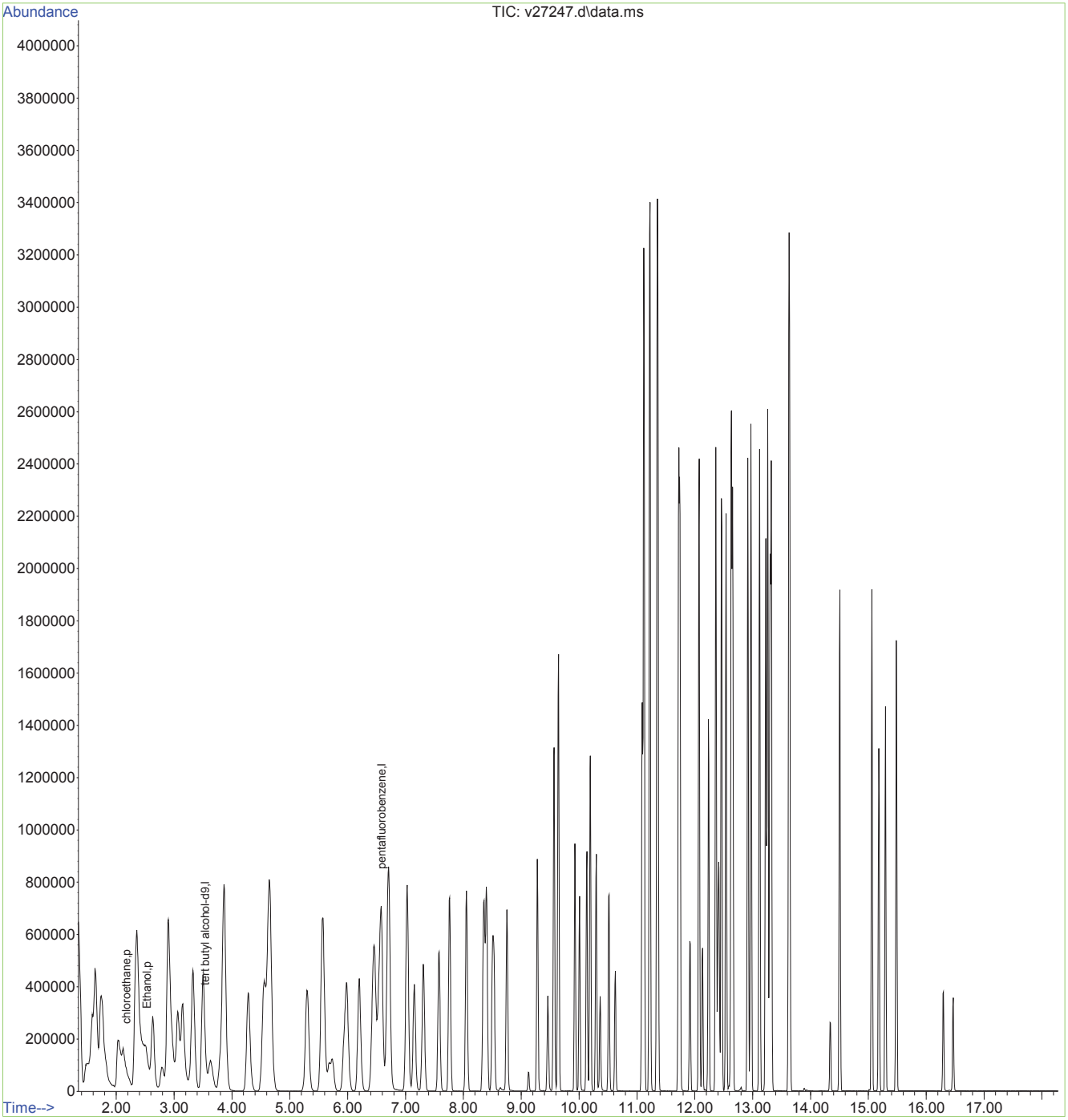
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST MC27802

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140122\
Data File : v27247.d
Acq On : 22 Jan 2014 9:12 am
Operator : amym
Sample : bs
Misc : MS30995,MSV1029,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 17 18:30:25 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140122\
Data File : v27251.d
Acq On : 22 Jan 2014 10:59 am
Operator : amym
Sample : mb
Misc : MS30995,MSV1029,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 17 18:31:00 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.532	65	158652	500.00	ug/L	0.00
3) pentafluorobenzene	6.588	168	468505	50.00	ug/L	0.03

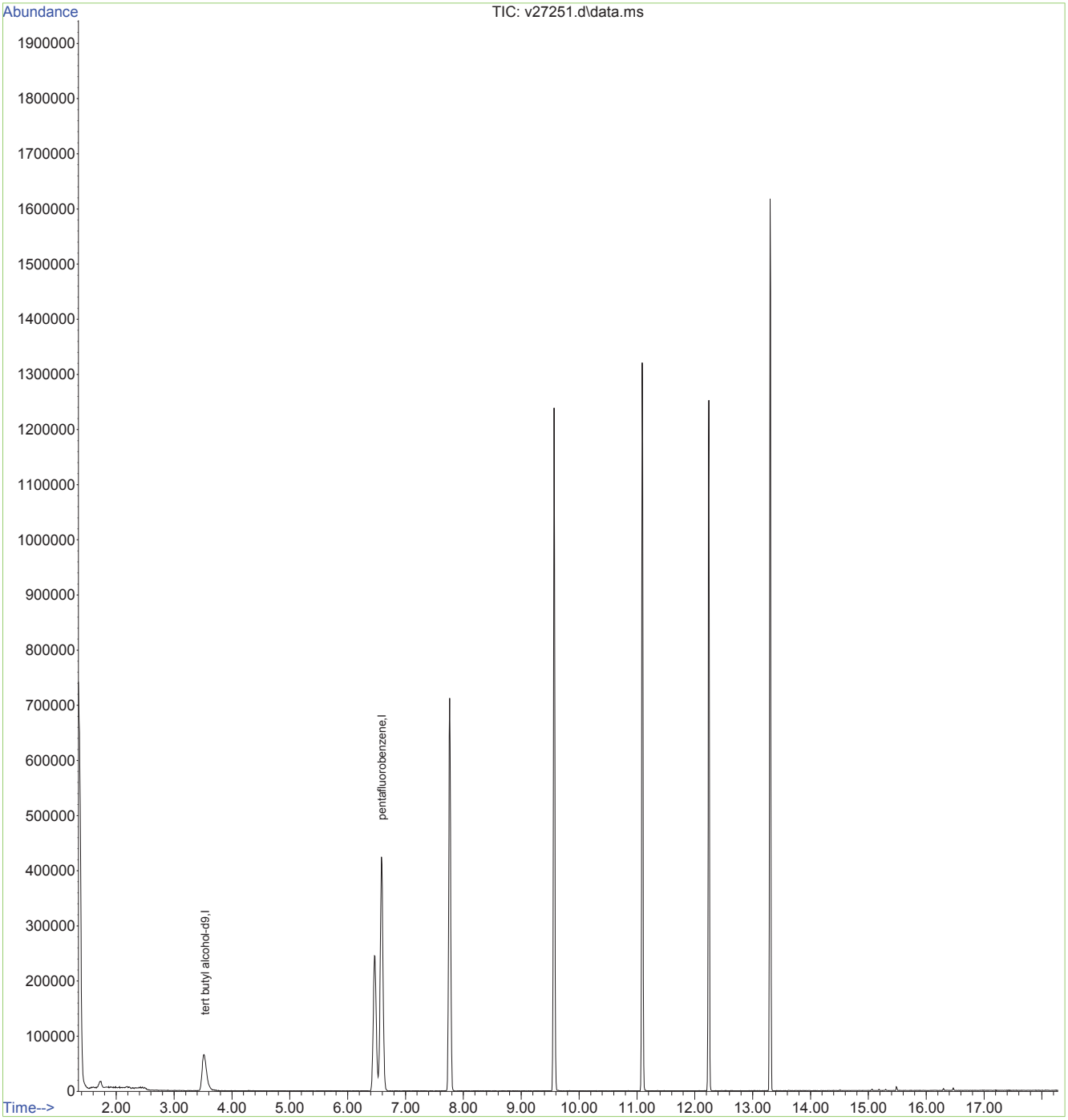
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140122\
Data File : v27251.d
Acq On : 22 Jan 2014 10:59 am
Operator : amym
Sample : mb
Misc : MS30995,MSV1029,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 17 18:31:00 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140122\
Data File : v27271.d
Acq On : 22 Jan 2014 7:47 pm
Operator : amym
Sample : mc27745-1ms
Misc : MS31004,MSV1029,,,,5,5
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Nov 17 18:41:30 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

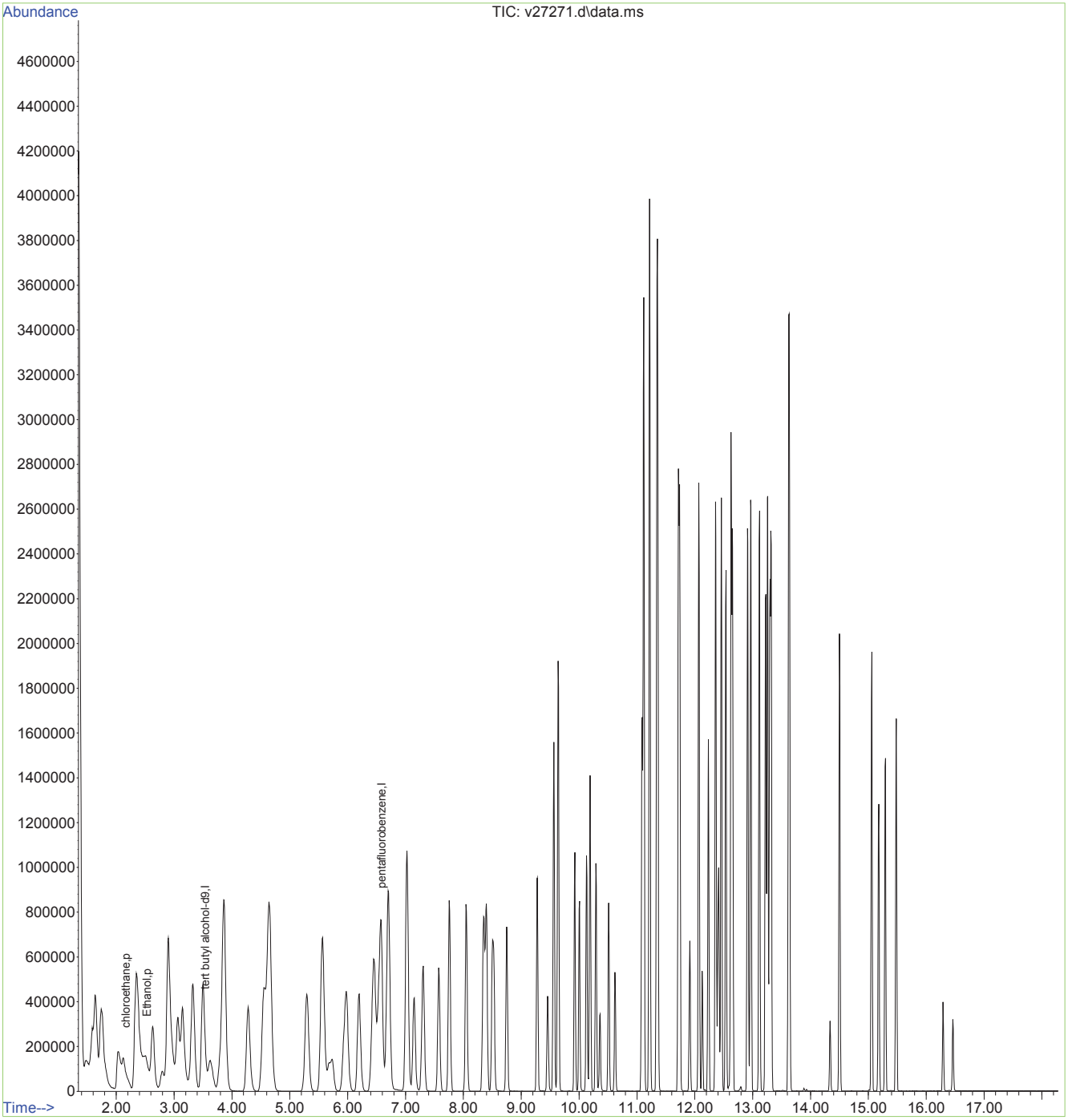
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.533	65	241459	500.00	ug/L	# 0.01
3) pentafluorobenzene	6.583	168	664916	50.00	ug/L	0.02
Target Compounds						Qvalue
2) Ethanol	2.530	45	258159	6631.44	ug/L	# 1
4) chloroethane	2.167	64	256547	50.07	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140122\
Data File : v27271.d
Acq On : 22 Jan 2014 7:47 pm
Operator : amym
Sample : mc27745-1ms
Misc : MS31004,MSV1029,,,,5,5
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Nov 17 18:41:30 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140122\
Data File : v27272.d
Acq On : 22 Jan 2014 8:13 pm
Operator : amym
Sample : mc27745-1msd
Misc : MS31004,MSV1029,,,,5,5
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Nov 17 18:42:09 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

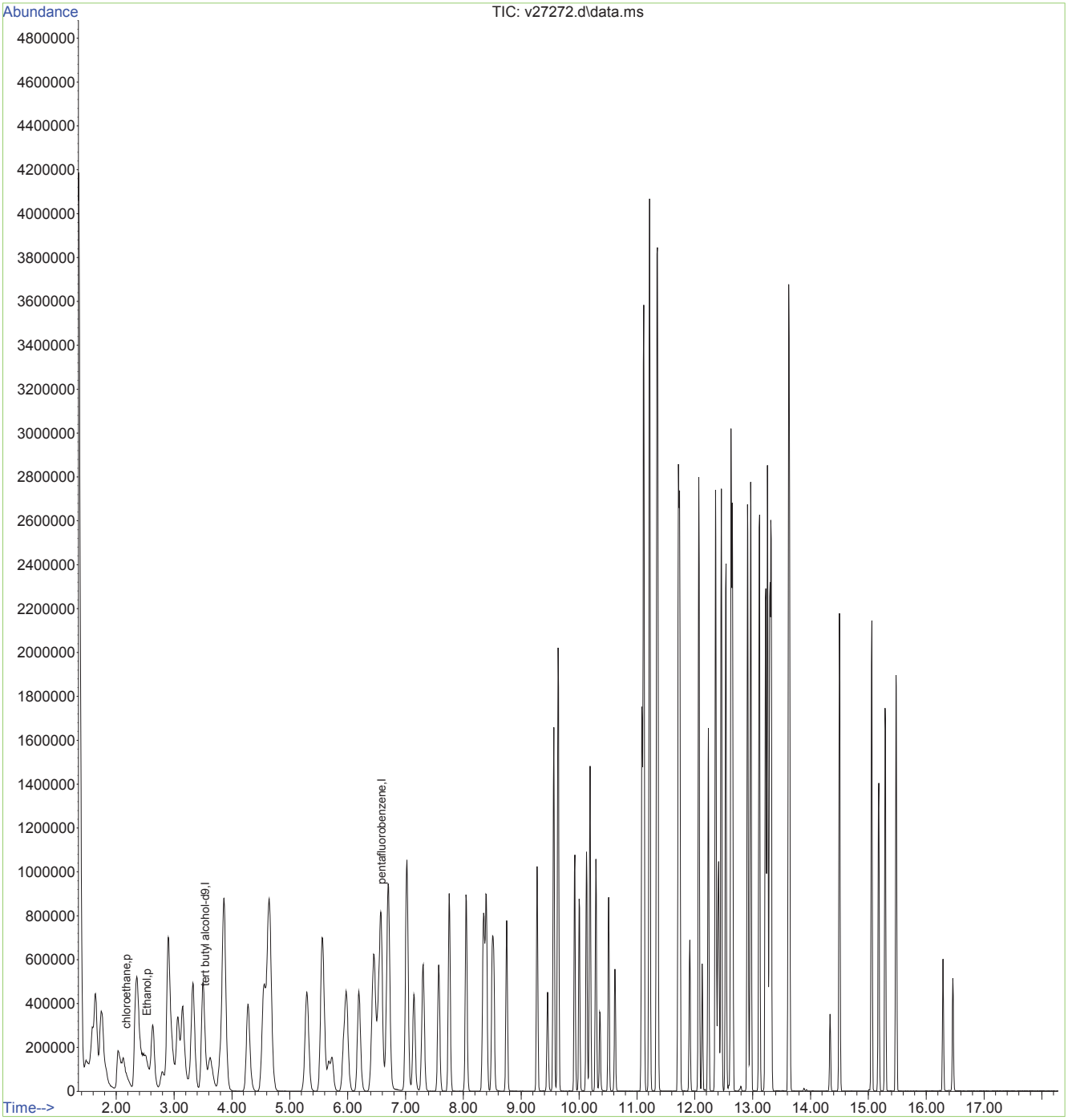
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.530	65	261908	500.00	ug/L	# 0.00
3) pentafluorobenzene	6.582	168	684870	50.00	ug/L	0.02
Target Compounds						Qvalue
2) Ethanol	2.531	45	274135	6481.94	ug/L	# 1
4) chloroethane	2.172	64	262283	49.69	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140122\
Data File : v27272.d
Acq On : 22 Jan 2014 8:13 pm
Operator : amym
Sample : mc27745-1msd
Misc : MS31004,MSV1029,,,,5,5
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Nov 17 18:42:09 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140123\
Data File : v27284.d
Acq On : 23 Jan 2014 3:24 pm
Operator : amym
Sample : bs
Misc : MS31004,MSV1030,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 17 22:32:59 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

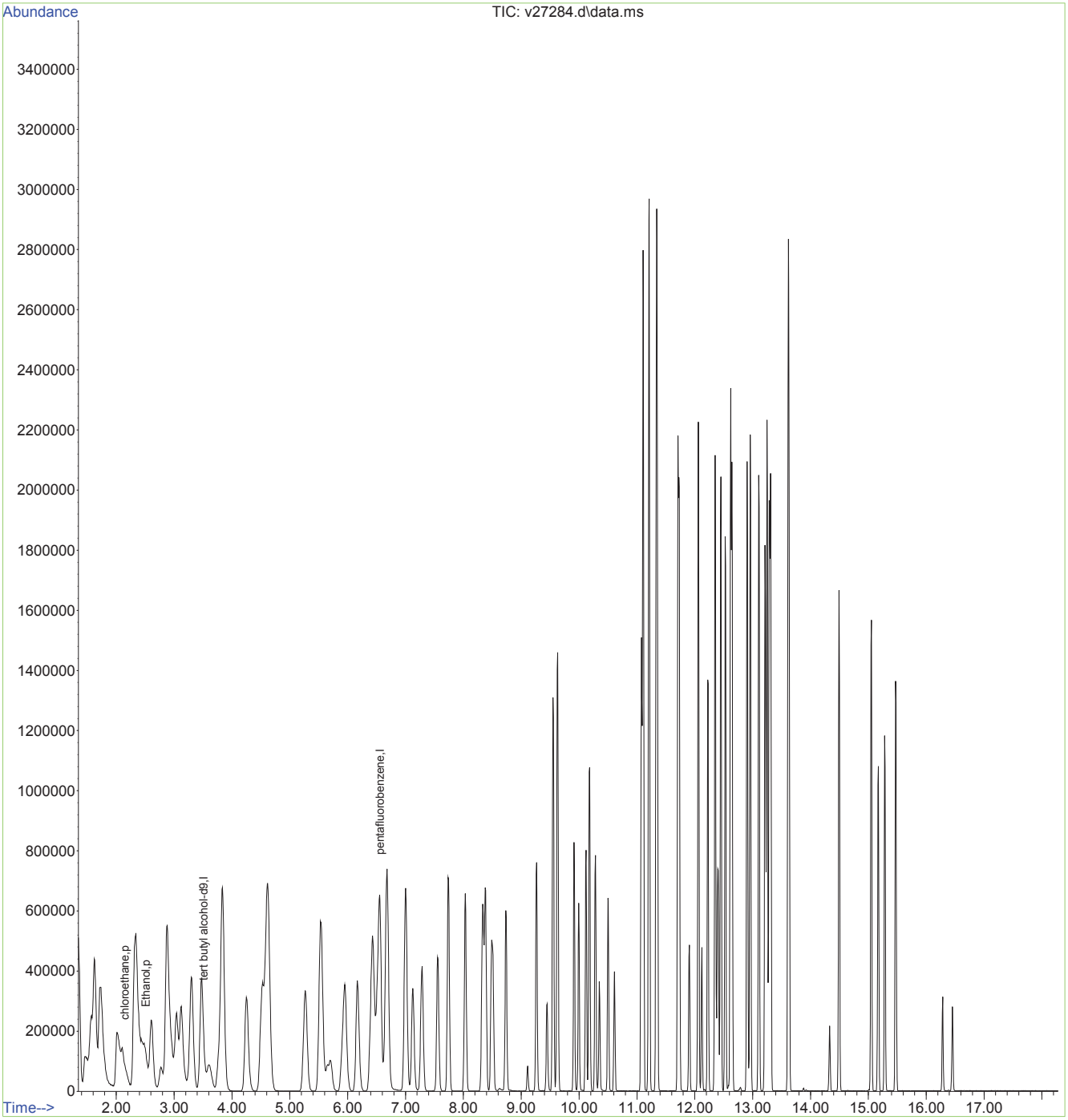
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.508	65	158449	500.00	ug/L	-0.01
3) pentafluorobenzene	6.560	168	555218	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.509	45	205905	8163.36	ug/L	# 1
4) chloroethane	2.148	64	254563	59.67	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140123\
Data File : v27284.d
Acq On : 23 Jan 2014 3:24 pm
Operator : amym
Sample : bs
Misc : MS31004,MSV1030,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 17 22:32:59 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140123\
Data File : v27287.d
Acq On : 23 Jan 2014 4:44 pm
Operator : amym
Sample : mb
Misc : MS31004,MSV1030,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 17 22:35:40 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.514	65	153995	500.00	ug/L	0.00
3) pentafluorobenzene	6.559	168	453280	50.00	ug/L	0.00

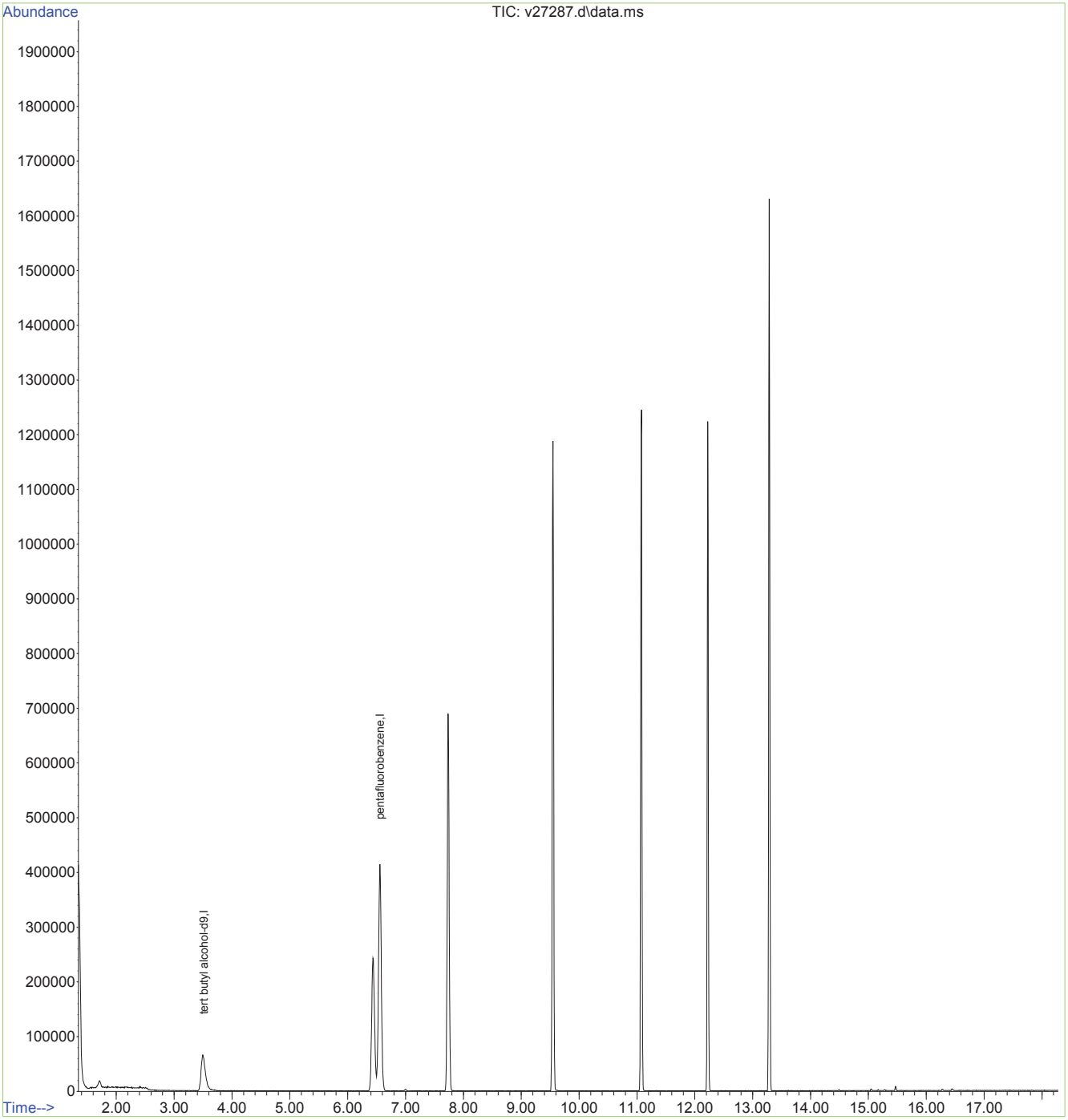
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140123\
Data File : v27287.d
Acq On : 23 Jan 2014 4:44 pm
Operator : amym
Sample : mb
Misc : MS31004,MSV1030,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 17 22:35:40 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140123\
Data File : v27294.d
Acq On : 23 Jan 2014 7:56 pm
Operator : amym
Sample : mc27830-1ms
Misc : MS31017,MSV1030,,,,5,5
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 17 22:39:38 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

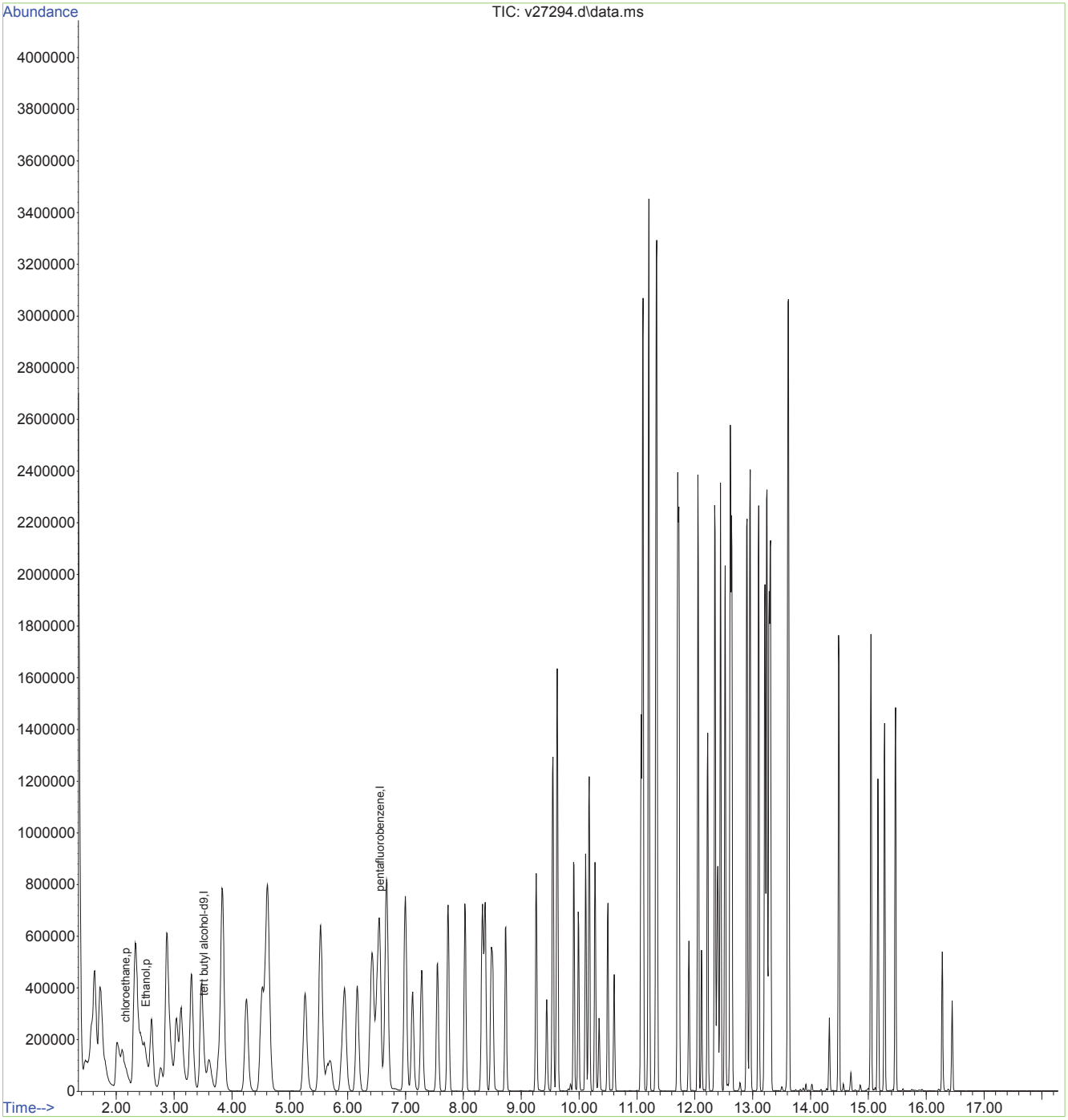
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.510	65	187504	500.00	ug/L	-0.01
3) pentafluorobenzene	6.554	168	554748	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.508	45	238346	7974.80	ug/L	# 1
4) chloroethane	2.157	64	270348	63.48	ug/L	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140123\
Data File : v27294.d
Acq On : 23 Jan 2014 7:56 pm
Operator : amym
Sample : mc27830-1ms
Misc : MS31017,MSV1030,,,,5,5
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 17 22:39:38 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140123\
Data File : v27295.d
Acq On : 23 Jan 2014 8:23 pm
Operator : amym
Sample : mc27830-1msd
Misc : MS31017,MSV1030,,,,5,5
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 17 22:40:06 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

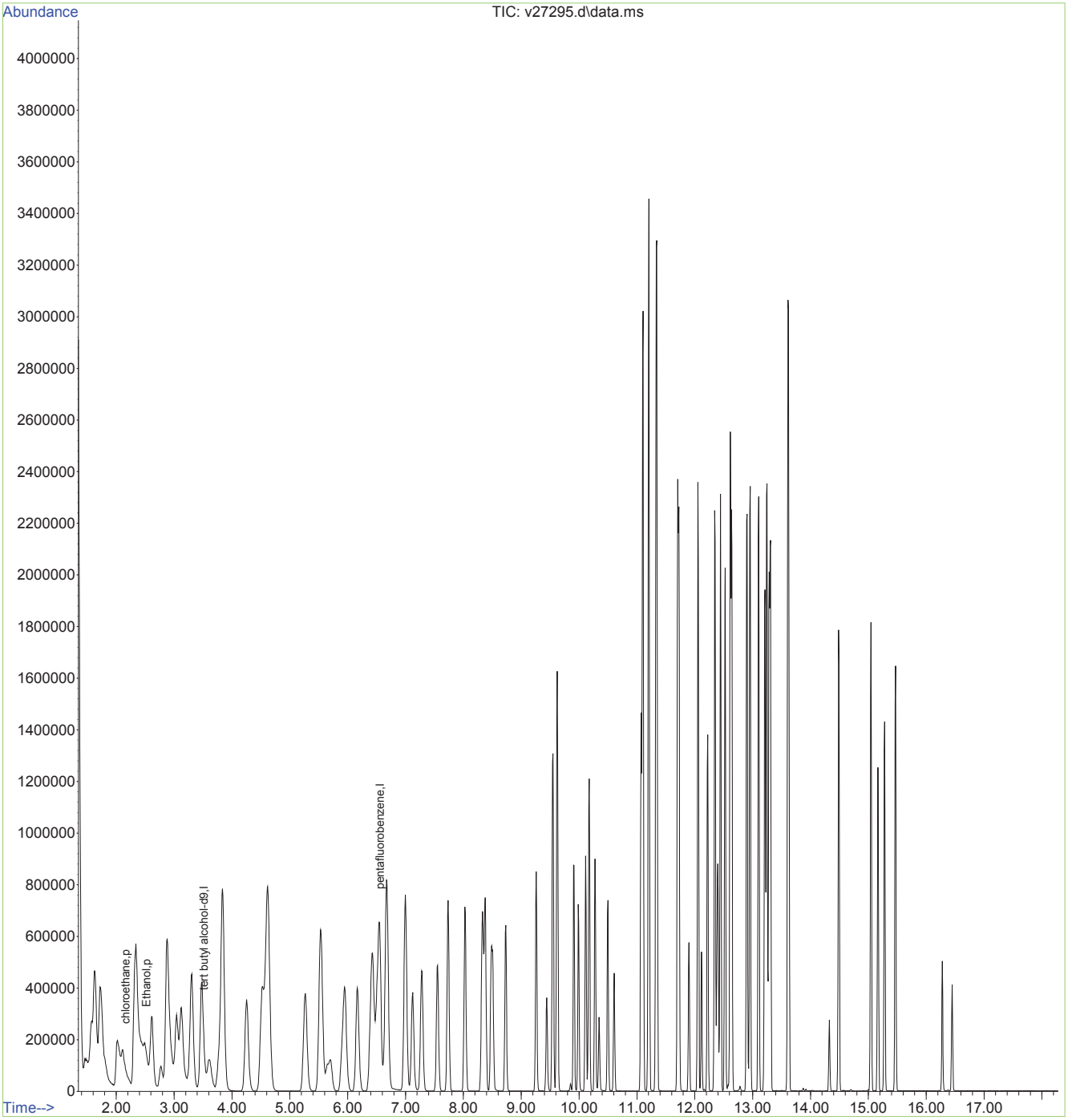
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.511	65	189902	500.00	ug/L	-0.01
3) pentafluorobenzene	6.556	168	558709	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.517	45	273000	9081.69	ug/L	# 1
4) chloroethane	2.159	64	268135	62.50	ug/L	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140123\
Data File : v27295.d
Acq On : 23 Jan 2014 8:23 pm
Operator : amym
Sample : mc27830-1msd
Misc : MS31017,MSV1030,,,,5,5
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 17 22:40:06 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Internal Sample Tracking Chronicle

Shell Oil

Job No: MC27802

URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC27802-1 Collected: 20-JAN-14 00:00 By: MW2-ROX-012014			Received: 21-JAN-14 By:			
MC27802-1	SW846 8011	23-JAN-14 15:50	CZ	23-JAN-14	AJ	V8011SL
MC27802-1	SW846 8260C	23-JAN-14 19:29	AMY			V8260SL+
MC27802-1	SW846 8260C	23-JAN-14 20:49	AMY			V8260SL+
MC27802-1	SW846 8270D BY SIM	27-JAN-14 13:51	KR	22-JAN-14	PA	B8270SIMPAH
MC27802-1	SW846 8270D	28-JAN-14 01:39	KR	22-JAN-14	PA	AB8270SL+
MC27802-2 Collected: 20-JAN-14 00:00 By: MW22-ROX-012014			Received: 21-JAN-14 By:			
MC27802-2	SW846 8260C	22-JAN-14 16:42	AMY			V8260SL+
MC27802-2	SW846 8011	23-JAN-14 16:15	CZ	23-JAN-14	AJ	V8011SL
MC27802-2	SW846 8260C	23-JAN-14 21:15	AMY			V8260SL+
MC27802-2	SW846 8270D BY SIM	27-JAN-14 14:14	KR	22-JAN-14	PA	B8270SIMPAH
MC27802-2	SW846 8270D	28-JAN-14 02:02	KR	22-JAN-14	PA	AB8270SL+
MC27802-3 Collected: 20-JAN-14 00:00 By: MW22-ROX-012014-DUP			Received: 21-JAN-14 By:			
MC27802-3	SW846 8260C	22-JAN-14 17:08	AMY			V8260SL+
MC27802-3	SW846 8011	23-JAN-14 16:40	CZ	23-JAN-14	AJ	V8011SL
MC27802-3	SW846 8260C	23-JAN-14 21:42	AMY			V8260SL+
MC27802-3	SW846 8270D BY SIM	27-JAN-14 14:37	KR	22-JAN-14	PA	B8270SIMPAH
MC27802-3	SW846 8270D	28-JAN-14 02:25	KR	22-JAN-14	PA	AB8270SL+
MC27802-4 Collected: 20-JAN-14 00:00 By: TB-ROX-012014-HCL			Received: 21-JAN-14 By:			
MC27802-4	SW846 8260C	22-JAN-14 12:44	AMY			V8260SL+
MC27802-5 Collected: 20-JAN-14 00:00 By: TB-ROX-012014-ST			Received: 21-JAN-14 By:			
MC27802-5	SW846 8011	23-JAN-14 17:07	CZ	23-JAN-14	AJ	V8011SL

SGS Accutest Internal Chain of Custody

Job Number: MC27802
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL
Received: 01/21/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC27802-1.2	Walk In Ref #22	Michael DiBuono	01/22/14 14:22	Retrieve from Storage
MC27802-1.2	Scott Parsick		03/25/14 11:35	Disposed
MC27802-1.4	VOC Ref #3	Marc Tahtamoni	01/22/14 14:11	Retrieve from Storage
MC27802-1.4	Marc Tahtamoni		02/27/14 22:07	Depleted
MC27802-1.5	VOC Ref #3	Amy Min Yang	01/23/14 16:24	Retrieve from Storage
MC27802-1.5	Amy Min Yang	GCMSV	01/23/14 16:24	Load on Instrument
MC27802-1.5	GCMSV	Amy Min Yang	01/24/14 09:51	Unload from Instrument
MC27802-1.5	Amy Min Yang	VOC Ref #3	01/24/14 09:51	Return to Storage
MC27802-1.5	Scott Parsick		03/25/14 11:35	Disposed
MC27802-1.6	VOC Ref #3	Amy Min Yang	01/22/14 10:47	Retrieve from Storage
MC27802-1.6	Amy Min Yang	GCMSV	01/22/14 10:47	Load on Instrument
MC27802-1.6	GCMSV	Amy Min Yang	01/23/14 16:00	Unload from Instrument
MC27802-1.6	Amy Min Yang	VOC Ref #3	01/23/14 16:00	Return to Storage
MC27802-1.6	Scott Parsick		03/25/14 11:35	Disposed
MC27802-2.1	Walk In Ref #22	Michael DiBuono	01/22/14 14:22	Retrieve from Storage
MC27802-2.1	Scott Parsick		03/25/14 11:35	Disposed
MC27802-2.4	VOC Ref #3	Marc Tahtamoni	01/22/14 14:11	Retrieve from Storage
MC27802-2.4	Marc Tahtamoni		02/27/14 22:07	Depleted
MC27802-2.5	VOC Ref #3	Amy Min Yang	01/22/14 10:47	Retrieve from Storage
MC27802-2.5	Amy Min Yang	GCMSV	01/22/14 10:47	Load on Instrument
MC27802-2.5	GCMSV	Amy Min Yang	01/23/14 16:00	Unload from Instrument
MC27802-2.5	Amy Min Yang	VOC Ref #3	01/23/14 16:00	Return to Storage
MC27802-2.5	Scott Parsick		03/25/14 11:35	Disposed
MC27802-2.6	VOC Ref #3	Amy Min Yang	01/23/14 16:24	Retrieve from Storage
MC27802-2.6	Amy Min Yang	GCMSV	01/23/14 16:24	Load on Instrument
MC27802-2.6	GCMSV	Amy Min Yang	01/24/14 09:51	Unload from Instrument
MC27802-2.6	Amy Min Yang	VOC Ref #3	01/24/14 09:51	Return to Storage
MC27802-2.6	Scott Parsick		03/25/14 11:35	Disposed
MC27802-3.2	Walk In Ref #22	Michael DiBuono	01/22/14 14:22	Retrieve from Storage
MC27802-3.2	Scott Parsick		03/25/14 11:35	Disposed
MC27802-3.4	VOC Ref #3	Marc Tahtamoni	01/22/14 14:11	Retrieve from Storage
MC27802-3.4	Marc Tahtamoni		02/27/14 22:07	Depleted
MC27802-3.5	VOC Ref #3	Amy Min Yang	01/23/14 16:24	Retrieve from Storage
MC27802-3.5	Amy Min Yang	GCMSV	01/23/14 16:24	Load on Instrument

SGS Accutest Internal Chain of Custody

Job Number: MC27802
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL
Received: 01/21/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC27802-3.5	GCMSV	Amy Min Yang	01/24/14 09:51	Unload from Instrument
MC27802-3.5	Amy Min Yang	VOC Ref #3	01/24/14 09:51	Return to Storage
MC27802-3.5	Scott Parsick		03/25/14 11:35	Disposed
MC27802-3.6	VOC Ref #3	Amy Min Yang	01/22/14 10:47	Retrieve from Storage
MC27802-3.6	Amy Min Yang	GCMSV	01/22/14 10:47	Load on Instrument
MC27802-3.6	GCMSV	Amy Min Yang	01/23/14 16:00	Unload from Instrument
MC27802-3.6	Amy Min Yang	VOC Ref #3	01/23/14 16:00	Return to Storage
MC27802-3.6	Scott Parsick		03/25/14 11:35	Disposed
MC27802-4.1	VOC Ref #3	Amy Min Yang	01/22/14 10:47	Retrieve from Storage
MC27802-4.1	Amy Min Yang	GCMSV	01/22/14 10:47	Load on Instrument
MC27802-4.1	GCMSV	Amy Min Yang	01/23/14 16:00	Unload from Instrument
MC27802-4.1	Amy Min Yang	VOC Ref #3	01/23/14 16:00	Return to Storage
MC27802-4.1	Scott Parsick		03/25/14 11:35	Disposed
MC27802-5.1	VOC Ref #3	Marc Tahtamoni	01/22/14 14:11	Retrieve from Storage
MC27802-5.1	Marc Tahtamoni		02/27/14 22:07	Depleted

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC27802
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1029-MB	V27251.D	1	01/22/14	AMY	n/a	n/a	MSV1029

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27802-2, MC27802-3, MC27802-4

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	

Method Blank Summary

Job Number: MC27802
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1029-MB	V27251.D	1	01/22/14	AMY	n/a	n/a	MSV1029

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27802-2, MC27802-3, MC27802-4

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
123-91-1	1,4-Dioxane	ND	25	16	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.70	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

Method Blank Summary

Job Number: MC27802
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1029-MB	V27251.D	1	01/22/14	AMY	n/a	n/a	MSV1029

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27802-2, MC27802-3, MC27802-4

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	103%	70-130%
2037-26-5	Toluene-D8	98%	70-130%
460-00-4	4-Bromofluorobenzene	104%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: MC27802
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1030-MB	V27287.D	1	01/23/14	AMY	n/a	n/a	MSV1030

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27802-1, MC27802-2, MC27802-3

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	

Method Blank Summary

Job Number: MC27802
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1030-MB	V27287.D	1	01/23/14	AMY	n/a	n/a	MSV1030

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27802-1, MC27802-2, MC27802-3

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
123-91-1	1,4-Dioxane	ND	25	16	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.70	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

Method Blank Summary

Job Number: MC27802
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1030-MB	V27287.D	1	01/23/14	AMY	n/a	n/a	MSV1030

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27802-1, MC27802-2, MC27802-3

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	105%	70-130%
2037-26-5	Toluene-D8	97%	70-130%
460-00-4	4-Bromofluorobenzene	105%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Job Number: MC27802
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1029-BS	V27247.D	1	01/22/14	AMY	n/a	n/a	MSV1029

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27802-2, MC27802-3, MC27802-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	47.7	95	70-130
107-02-8	Acrolein	50	78.7	157* [a]	70-130
107-13-1	Acrylonitrile	100	101	101	70-130
71-43-2	Benzene	50	53.9	108	70-130
108-86-1	Bromobenzene	50	54.4	109	70-130
74-97-5	Bromochloromethane	50	53.1	106	70-130
75-27-4	Bromodichloromethane	50	57.7	115	70-130
75-25-2	Bromoform	50	45.6	91	70-130
74-83-9	Bromomethane	50	49.3	99	70-130
78-93-3	2-Butanone (MEK)	50	47.8	96	70-130
104-51-8	n-Butylbenzene	50	58.2	116	70-130
135-98-8	sec-Butylbenzene	50	59.8	120	70-130
98-06-6	tert-Butylbenzene	50	59.9	120	70-130
75-15-0	Carbon disulfide	50	47.8	96	70-130
56-23-5	Carbon tetrachloride	50	60.7	121	70-130
108-90-7	Chlorobenzene	50	47.9	96	70-130
75-00-3	Chloroethane	50	62.0	124	70-130
110-75-8	2-Chloroethyl vinyl ether	50	107	214* [a]	70-130
67-66-3	Chloroform	50	51.5	103	70-130
74-87-3	Chloromethane	50	48.0	96	70-130
95-49-8	o-Chlorotoluene	50	53.9	108	70-130
106-43-4	p-Chlorotoluene	50	54.9	110	70-130
124-48-1	Dibromochloromethane	50	58.7	117	70-130
95-50-1	1,2-Dichlorobenzene	50	50.0	100	70-130
541-73-1	1,3-Dichlorobenzene	50	51.0	102	70-130
106-46-7	1,4-Dichlorobenzene	50	50.7	101	70-130
75-71-8	Dichlorodifluoromethane	50	54.0	108	70-130
75-34-3	1,1-Dichloroethane	50	53.5	107	70-130
107-06-2	1,2-Dichloroethane	50	54.0	108	70-130
75-35-4	1,1-Dichloroethene	50	54.9	110	70-130
156-59-2	cis-1,2-Dichloroethene	50	53.5	107	70-130
156-60-5	trans-1,2-Dichloroethene	50	53.1	106	70-130
78-87-5	1,2-Dichloropropane	50	52.2	104	70-130
142-28-9	1,3-Dichloropropane	50	51.8	104	70-130
594-20-7	2,2-Dichloropropane	50	63.6	127	70-130
563-58-6	1,1-Dichloropropene	50	54.9	110	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC27802
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1029-BS	V27247.D	1	01/22/14	AMY	n/a	n/a	MSV1029

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27802-2, MC27802-3, MC27802-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	50	50.2	100	70-130
10061-02-6	trans-1,3-Dichloropropene	50	52.2	104	70-130
123-91-1	1,4-Dioxane	250	232	93	70-130
97-63-2	Ethyl methacrylate	50	48.9	98	77-137
100-41-4	Ethylbenzene	50	55.1	110	70-130
87-68-3	Hexachlorobutadiene	50	60.3	121	70-130
591-78-6	2-Hexanone	50	46.6	93	70-130
98-82-8	Isopropylbenzene	50	60.7	121	70-130
99-87-6	p-Isopropyltoluene	50	58.0	116	70-130
1634-04-4	Methyl Tert Butyl Ether	50	56.5	113	70-130
108-10-1	4-Methyl-2-pentanone (MIBK)	50	53.6	107	70-130
74-95-3	Methylene bromide	50	52.6	105	70-130
75-09-2	Methylene chloride	50	49.4	99	70-130
91-20-3	Naphthalene	50	53.0	106	70-130
103-65-1	n-Propylbenzene	50	57.6	115	70-130
100-42-5	Styrene	50	50.9	102	70-130
630-20-6	1,1,1,2-Tetrachloroethane	50	55.0	110	70-130
79-34-5	1,1,2,2-Tetrachloroethane	50	51.0	102	70-130
127-18-4	Tetrachloroethene	50	56.4	113	70-130
108-88-3	Toluene	50	56.9	114	70-130
87-61-6	1,2,3-Trichlorobenzene	50	59.1	118	70-130
120-82-1	1,2,4-Trichlorobenzene	50	61.9	124	70-130
71-55-6	1,1,1-Trichloroethane	50	59.1	118	70-130
79-00-5	1,1,2-Trichloroethane	50	51.6	103	70-130
79-01-6	Trichloroethene	50	55.9	112	70-130
75-69-4	Trichlorofluoromethane	50	60.7	121	70-130
96-18-4	1,2,3-Trichloropropane	50	54.9	110	70-130
95-63-6	1,2,4-Trimethylbenzene	50	58.5	117	70-130
108-67-8	1,3,5-Trimethylbenzene	50	59.7	119	70-130
108-05-4	Vinyl Acetate	50	53.5	107	70-130
75-01-4	Vinyl chloride	50	47.1	94	70-130
	m,p-Xylene	100	92.4	92	70-130
95-47-6	o-Xylene	50	46.3	93	70-130
1330-20-7	Xylene (total)	150	139	93	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC27802
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1029-BS	V27247.D	1	01/22/14	AMY	n/a	n/a	MSV1029

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27802-2, MC27802-3, MC27802-4

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	96%	70-130%
2037-26-5	Toluene-D8	99%	70-130%
460-00-4	4-Bromofluorobenzene	99%	70-130%

(a) Outside control limits. Associated samples are non-detect for this compound.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC27802
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1030-BS	V27284.D	1	01/23/14	AMY	n/a	n/a	MSV1030

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27802-1, MC27802-2, MC27802-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	53.9	108	70-130
107-02-8	Acrolein	50	66.6	133* [a]	70-130
107-13-1	Acrylonitrile	100	91.5	92	70-130
71-43-2	Benzene	50	48.6	97	70-130
108-86-1	Bromobenzene	50	49.9	100	70-130
74-97-5	Bromochloromethane	50	48.0	96	70-130
75-27-4	Bromodichloromethane	50	50.7	101	70-130
75-25-2	Bromoform	50	37.9	76	70-130
74-83-9	Bromomethane	50	48.2	96	70-130
78-93-3	2-Butanone (MEK)	50	47.8	96	70-130
104-51-8	n-Butylbenzene	50	52.8	106	70-130
135-98-8	sec-Butylbenzene	50	54.2	108	70-130
98-06-6	tert-Butylbenzene	50	53.7	107	70-130
75-15-0	Carbon disulfide	50	41.8	84	70-130
56-23-5	Carbon tetrachloride	50	51.9	104	70-130
108-90-7	Chlorobenzene	50	42.2	84	70-130
75-00-3	Chloroethane	50	59.7	119	70-130
110-75-8	2-Chloroethyl vinyl ether	50	121	242* [b]	70-130
67-66-3	Chloroform	50	46.4	93	70-130
74-87-3	Chloromethane	50	46.9	94	70-130
95-49-8	o-Chlorotoluene	50	49.5	99	70-130
106-43-4	p-Chlorotoluene	50	50.2	100	70-130
124-48-1	Dibromochloromethane	50	49.8	100	70-130
95-50-1	1,2-Dichlorobenzene	50	44.9	90	70-130
541-73-1	1,3-Dichlorobenzene	50	46.5	93	70-130
106-46-7	1,4-Dichlorobenzene	50	45.8	92	70-130
75-71-8	Dichlorodifluoromethane	50	49.9	100	70-130
75-34-3	1,1-Dichloroethane	50	48.6	97	70-130
107-06-2	1,2-Dichloroethane	50	47.0	94	70-130
75-35-4	1,1-Dichloroethene	50	50.0	100	70-130
156-59-2	cis-1,2-Dichloroethene	50	48.8	98	70-130
156-60-5	trans-1,2-Dichloroethene	50	48.2	96	70-130
78-87-5	1,2-Dichloropropane	50	46.9	94	70-130
142-28-9	1,3-Dichloropropane	50	45.3	91	70-130
594-20-7	2,2-Dichloropropane	50	56.1	112	70-130
563-58-6	1,1-Dichloropropene	50	48.7	97	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC27802
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1030-BS	V27284.D	1	01/23/14	AMY	n/a	n/a	MSV1030

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27802-1, MC27802-2, MC27802-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	50	44.9	90	70-130
10061-02-6	trans-1,3-Dichloropropene	50	46.2	92	70-130
123-91-1	1,4-Dioxane	250	202	81	70-130
97-63-2	Ethyl methacrylate	50	42.6	85	77-137
100-41-4	Ethylbenzene	50	48.0	96	70-130
87-68-3	Hexachlorobutadiene	50	53.3	107	70-130
591-78-6	2-Hexanone	50	47.2	94	70-130
98-82-8	Isopropylbenzene	50	55.4	111	70-130
99-87-6	p-Isopropyltoluene	50	52.4	105	70-130
1634-04-4	Methyl Tert Butyl Ether	50	50.8	102	70-130
108-10-1	4-Methyl-2-pentanone (MIBK)	50	45.9	92	70-130
74-95-3	Methylene bromide	50	46.3	93	70-130
75-09-2	Methylene chloride	50	45.0	90	70-130
91-20-3	Naphthalene	50	44.9	90	70-130
103-65-1	n-Propylbenzene	50	52.4	105	70-130
100-42-5	Styrene	50	44.4	89	70-130
630-20-6	1,1,1,2-Tetrachloroethane	50	47.8	96	70-130
79-34-5	1,1,2,2-Tetrachloroethane	50	45.4	91	70-130
127-18-4	Tetrachloroethene	50	48.5	97	70-130
108-88-3	Toluene	50	50.8	102	70-130
87-61-6	1,2,3-Trichlorobenzene	50	52.4	105	70-130
120-82-1	1,2,4-Trichlorobenzene	50	55.1	110	70-130
71-55-6	1,1,1-Trichloroethane	50	51.3	103	70-130
79-00-5	1,1,2-Trichloroethane	50	46.0	92	70-130
79-01-6	Trichloroethene	50	49.5	99	70-130
75-69-4	Trichlorofluoromethane	50	56.0	112	70-130
96-18-4	1,2,3-Trichloropropane	50	48.4	97	70-130
95-63-6	1,2,4-Trimethylbenzene	50	53.1	106	70-130
108-67-8	1,3,5-Trimethylbenzene	50	54.4	109	70-130
108-05-4	Vinyl Acetate	50	47.8	96	70-130
75-01-4	Vinyl chloride	50	45.3	91	70-130
	m,p-Xylene	100	81.3	81	70-130
95-47-6	o-Xylene	50	41.2	82	70-130
1330-20-7	Xylene (total)	150	122	81	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC27802
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1030-BS	V27284.D	1	01/23/14	AMY	n/a	n/a	MSV1030

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27802-1, MC27802-2, MC27802-3

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	97%	70-130%
2037-26-5	Toluene-D8	99%	70-130%
460-00-4	4-Bromofluorobenzene	102%	70-130%

(a) Outside control limits. Blank Spike meets program technical requirements.
(b) Outside control limits. Associated samples are non-detect for this compound.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27802
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC27745-1MS	V27271.D	5	01/22/14	AMY	n/a	n/a	MSV1029
MC27745-1MSD	V27272.D	5	01/22/14	AMY	n/a	n/a	MSV1029
MC27745-1	V27256.D	1	01/22/14	AMY	n/a	n/a	MSV1029

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27802-2, MC27802-3, MC27802-4

CAS No.	Compound	MC27745-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		250	150	60* [a]	250	160	64* [a]	6	70-130/30
107-02-8	Acrolein	ND		250	322	129	250	328	131* [a]	2	70-130/30
107-13-1	Acrylonitrile	ND		500	506	101	500	507	101	0	70-130/30
71-43-2	Benzene	ND		250	331	132* [a]	250	306	122	8	70-130/30
108-86-1	Bromobenzene	ND		250	282	113	250	276	110	2	70-130/30
74-97-5	Bromochloromethane	ND		250	264	106	250	264	106	0	70-130/30
75-27-4	Bromodichloromethane	ND		250	258	103	250	258	103	0	70-130/30
75-25-2	Bromoform	ND		250	215	86	250	216	86	0	70-130/30
74-83-9	Bromomethane	ND		250	201	80	250	200	80	0	70-130/30
78-93-3	2-Butanone (MEK)	ND		250	189	76	250	192	77	2	70-130/30
104-51-8	n-Butylbenzene	ND		250	282	113	250	288	115	2	70-130/30
135-98-8	sec-Butylbenzene	ND		250	299	120	250	297	119	1	70-130/30
98-06-6	tert-Butylbenzene	ND		250	284	114	250	281	112	1	70-130/30
75-15-0	Carbon disulfide	ND		250	239	96	250	243	97	2	70-130/30
56-23-5	Carbon tetrachloride	ND		250	250	100	250	255	102	2	70-130/30
108-90-7	Chlorobenzene	ND		250	233	93	250	235	94	1	70-130/30
75-00-3	Chloroethane	ND		250	250	100	250	248	99	1	70-130/30
110-75-8	2-Chloroethyl vinyl ether	ND		250	ND	0* [a]	250	ND	0* [a]	nc	70-130/30
67-66-3	Chloroform	ND		250	240	96	250	241	96	0	70-130/30
74-87-3	Chloromethane	ND		250	195	78	250	192	77	2	70-130/30
95-49-8	o-Chlorotoluene	ND		250	269	108	250	267	107	1	70-130/30
106-43-4	p-Chlorotoluene	ND		250	272	109	250	269	108	1	70-130/30
124-48-1	Dibromochloromethane	ND		250	274	110	250	276	110	1	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		250	251	100	250	249	100	1	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		250	257	103	250	255	102	1	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		250	253	101	250	250	100	1	70-130/30
75-71-8	Dichlorodifluoromethane	ND		250	228	91	250	230	92	1	70-130/30
75-34-3	1,1-Dichloroethane	ND		250	257	103	250	258	103	0	70-130/30
107-06-2	1,2-Dichloroethane	ND		250	229	92	250	228	91	0	70-130/30
75-35-4	1,1-Dichloroethene	ND		250	279	112	250	279	112	0	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		250	275	110	250	274	110	0	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		250	266	106	250	272	109	2	70-130/30
78-87-5	1,2-Dichloropropane	ND		250	253	101	250	254	102	0	70-130/30
142-28-9	1,3-Dichloropropane	ND		250	259	104	250	256	102	1	70-130/30
594-20-7	2,2-Dichloropropane	ND		250	287	115	250	292	117	2	70-130/30
563-58-6	1,1-Dichloropropene	ND		250	254	102	250	260	104	2	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27802
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC27745-1MS	V27271.D	5	01/22/14	AMY	n/a	n/a	MSV1029
MC27745-1MSD	V27272.D	5	01/22/14	AMY	n/a	n/a	MSV1029
MC27745-1	V27256.D	1	01/22/14	AMY	n/a	n/a	MSV1029

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27802-2, MC27802-3, MC27802-4

CAS No.	Compound	MC27745-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		250	240	96	250	240	96	0	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		250	248	99	250	250	100	1	70-130/30
123-91-1	1,4-Dioxane	ND		1250	1240	99	1250	1360	109	9	70-130/30
97-63-2	Ethyl methacrylate	ND		250	249	100	250	250	100	0	72-139/30
100-41-4	Ethylbenzene	ND		250	269	108	250	271	108	1	70-130/30
87-68-3	Hexachlorobutadiene	ND		250	275	110	250	285	114	4	70-130/30
591-78-6	2-Hexanone	ND		250	198	79	250	198	79	0	70-130/30
98-82-8	Isopropylbenzene	ND		250	311	124	250	306	122	2	70-130/30
99-87-6	p-Isopropyltoluene	ND		250	288	115	250	287	115	0	70-130/30
1634-04-4	Methyl Tert Butyl Ether	0.61	J	250	301	120	250	300	120	0	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	268	107	250	275	110	3	70-130/30
74-95-3	Methylene bromide	ND		250	245	98	250	244	98	0	70-130/30
75-09-2	Methylene chloride	ND		250	250	100	250	251	100	0	70-130/30
91-20-3	Naphthalene	ND		250	262	105	250	294	118	12	70-130/30
103-65-1	n-Propylbenzene	ND		250	289	116	250	287	115	1	70-130/30
100-42-5	Styrene	ND		250	252	101	250	252	101	0	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		250	258	103	250	258	103	0	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	273	109	250	275	110	1	70-130/30
127-18-4	Tetrachloroethene	ND		250	264	106	250	269	108	2	70-130/30
108-88-3	Toluene	ND		250	279	112	250	281	112	1	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		250	281	112	250	308	123	9	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		250	299	120	250	313	125	5	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		250	267	107	250	269	108	1	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		250	255	102	250	257	103	1	70-130/30
79-01-6	Trichloroethene	ND		250	263	105	250	266	106	1	70-130/30
75-69-4	Trichlorofluoromethane	ND		250	222	89	250	221	88	0	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		250	277	111	250	278	111	0	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		250	293	117	250	291	116	1	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		250	300	120	250	297	119	1	70-130/30
108-05-4	Vinyl Acetate	ND		250	254	102	250	255	102	0	70-130/30
75-01-4	Vinyl chloride	ND		250	191	76	250	191	76	0	70-130/30
	m,p-Xylene	ND		500	456	91	500	455	91	0	70-130/30
95-47-6	o-Xylene	ND		250	230	92	250	231	92	0	70-130/30
1330-20-7	Xylene (total)	ND		750	686	91	750	686	91	0	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27802
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC27745-1MS	V27271.D	5	01/22/14	AMY	n/a	n/a	MSV1029
MC27745-1MSD	V27272.D	5	01/22/14	AMY	n/a	n/a	MSV1029
MC27745-1	V27256.D	1	01/22/14	AMY	n/a	n/a	MSV1029

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27802-2, MC27802-3, MC27802-4

CAS No.	Surrogate Recoveries	MS	MSD	MC27745-1	Limits
1868-53-7	Dibromofluoromethane	92%	93%	110%	70-130%
2037-26-5	Toluene-D8	98%	98%	99%	70-130%
460-00-4	4-Bromofluorobenzene	101%	100%	103%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27802
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC27830-1MS	V27294.D	5	01/23/14	AMY	n/a	n/a	MSV1030
MC27830-1MSD	V27295.D	5	01/23/14	AMY	n/a	n/a	MSV1030
MC27830-1	V27290.D	1	01/23/14	AMY	n/a	n/a	MSV1030

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27802-1, MC27802-2, MC27802-3

CAS No.	Compound	MC27830-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		250	152	61* [a]	250	161	64* [a]	6	70-130/30
107-02-8	Acrolein	ND		250	345	138* [a]	250	352	141* [a]	2	70-130/30
107-13-1	Acrylonitrile	ND		500	516	103	500	522	104	1	70-130/30
71-43-2	Benzene	ND		250	270	108	250	264	106	2	70-130/30
108-86-1	Bromobenzene	ND		250	273	109	250	275	110	1	70-130/30
74-97-5	Bromochloromethane	ND		250	261	104	250	266	106	2	70-130/30
75-27-4	Bromodichloromethane	ND		250	277	111	250	273	109	1	70-130/30
75-25-2	Bromoform	ND		250	217	87	250	216	86	0	70-130/30
74-83-9	Bromomethane	ND		250	253	101	250	250	100	1	70-130/30
78-93-3	2-Butanone (MEK)	ND		250	190	76	250	185	74	3	70-130/30
104-51-8	n-Butylbenzene	ND		250	290	116	250	287	115	1	70-130/30
135-98-8	sec-Butylbenzene	ND		250	297	119	250	297	119	0	70-130/30
98-06-6	tert-Butylbenzene	ND		250	292	117	250	292	117	0	70-130/30
75-15-0	Carbon disulfide	ND		250	229	92	250	232	93	1	70-130/30
56-23-5	Carbon tetrachloride	ND		250	286	114	250	277	111	3	70-130/30
108-90-7	Chlorobenzene	ND		250	235	94	250	230	92	2	70-130/30
75-00-3	Chloroethane	ND		250	317	127	250	312	125	2	70-130/30
110-75-8	2-Chloroethyl vinyl ether	ND		250	ND	0* [a]	250	ND	0* [a]	nc	70-130/30
67-66-3	Chloroform	ND		250	256	102	250	253	101	1	70-130/30
74-87-3	Chloromethane	ND		250	256	102	250	272	109	6	70-130/30
95-49-8	o-Chlorotoluene	ND		250	270	108	250	269	108	0	70-130/30
106-43-4	p-Chlorotoluene	ND		250	274	110	250	273	109	0	70-130/30
124-48-1	Dibromochloromethane	ND		250	280	112	250	282	113	1	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		250	245	98	250	248	99	1	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		250	252	101	250	254	102	1	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		250	248	99	250	250	100	1	70-130/30
75-71-8	Dichlorodifluoromethane	ND		250	269	108	250	274	110	2	70-130/30
75-34-3	1,1-Dichloroethane	ND		250	268	107	250	267	107	0	70-130/30
107-06-2	1,2-Dichloroethane	ND		250	263	105	250	255	102	3	70-130/30
75-35-4	1,1-Dichloroethene	ND		250	274	110	250	270	108	1	70-130/30
156-59-2	cis-1,2-Dichloroethene	15.9		250	283	107	250	284	107	0	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		250	266	106	250	265	106	0	70-130/30
78-87-5	1,2-Dichloropropane	ND		250	260	104	250	257	103	1	70-130/30
142-28-9	1,3-Dichloropropane	ND		250	256	102	250	254	102	1	70-130/30
594-20-7	2,2-Dichloropropane	ND		250	306	122	250	299	120	2	70-130/30
563-58-6	1,1-Dichloropropene	ND		250	272	109	250	267	107	2	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27802
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC27830-1MS	V27294.D	5	01/23/14	AMY	n/a	n/a	MSV1030
MC27830-1MSD	V27295.D	5	01/23/14	AMY	n/a	n/a	MSV1030
MC27830-1	V27290.D	1	01/23/14	AMY	n/a	n/a	MSV1030

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27802-1, MC27802-2, MC27802-3

CAS No.	Compound	MC27830-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		250	241	96	250	238	95	1	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		250	257	103	250	252	101	2	70-130/30
123-91-1	1,4-Dioxane	ND		1250	1190	95	1250	1210	97	2	70-130/30
97-63-2	Ethyl methacrylate	ND		250	244	98	250	243	97	0	72-139/30
100-41-4	Ethylbenzene	ND		250	274	110	250	267	107	3	70-130/30
87-68-3	Hexachlorobutadiene	ND		250	288	115	250	296	118	3	70-130/30
591-78-6	2-Hexanone	ND		250	193	77	250	193	77	0	70-130/30
98-82-8	Isopropylbenzene	ND		250	307	123	250	306	122	0	70-130/30
99-87-6	p-Isopropyltoluene	ND		250	286	114	250	289	116	1	70-130/30
1634-04-4	Methyl Tert Butyl Ether	ND		250	288	115	250	285	114	1	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	269	108	250	269	108	0	70-130/30
74-95-3	Methylene bromide	ND		250	259	104	250	253	101	2	70-130/30
75-09-2	Methylene chloride	ND		250	246	98	250	247	99	0	70-130/30
91-20-3	Naphthalene	ND		250	284	114	250	283	113	0	70-130/30
103-65-1	n-Propylbenzene	ND		250	292	117	250	288	115	1	70-130/30
100-42-5	Styrene	ND		250	247	99	250	244	98	1	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		250	266	106	250	265	106	0	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	259	104	250	263	105	2	70-130/30
127-18-4	Tetrachloroethene	ND		250	268	107	250	267	107	0	70-130/30
108-88-3	Toluene	ND		250	281	112	250	275	110	2	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		250	275	110	250	302	121	9	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		250	300	120	250	311	124	4	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		250	289	116	250	285	114	1	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		250	259	104	250	257	103	1	70-130/30
79-01-6	Trichloroethene	ND		250	276	110	250	270	108	2	70-130/30
75-69-4	Trichlorofluoromethane	ND		250	294	118	250	290	116	1	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		250	274	110	250	280	112	2	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		250	294	118	250	294	118	0	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		250	304	122	250	298	119	2	70-130/30
108-05-4	Vinyl Acetate	ND		250	266	106	250	267	107	0	70-130/30
75-01-4	Vinyl chloride	ND		250	248	99	250	240	96	3	70-130/30
	m,p-Xylene	ND		500	452	90	500	443	89	2	70-130/30
95-47-6	o-Xylene	ND		250	227	91	250	223	89	2	70-130/30
1330-20-7	Xylene (total)	ND		750	679	91	750	666	89	2	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27802
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC27830-1MS	V27294.D	5	01/23/14	AMY	n/a	n/a	MSV1030
MC27830-1MSD	V27295.D	5	01/23/14	AMY	n/a	n/a	MSV1030
MC27830-1	V27290.D	1	01/23/14	AMY	n/a	n/a	MSV1030

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27802-1, MC27802-2, MC27802-3

CAS No.	Surrogate Recoveries	MS	MSD	MC27830-1	Limits
1868-53-7	Dibromofluoromethane	95%	97%	104%	70-130%
2037-26-5	Toluene-D8	98%	99%	97%	70-130%
460-00-4	4-Bromofluorobenzene	101%	102%	106%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.

* = Outside of Control Limits.

Volatile Internal Standard Area Summary

Job Number: MC27802
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSV1029-CC1019	**Injection Date:**	01/22/14
Lab File ID:	V27246.D	**Injection Time:**	08:45
Instrument ID:	GCMSV	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	605724	6.58	757292	7.76	419514	11.09	462866	13.30	180058	3.53
Upper Limit [a]	1211448	7.08	1514584	8.26	839028	11.59	925732	13.80	360116	4.03
Lower Limit [b]	302862	6.08	378646	7.26	209757	10.59	231433	12.80	90029	3.03

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSV1029-BS	564468	6.59	706762	7.76	384886	11.09	423775	13.30	174385	3.53
MSV1029-MB	468505	6.59	627027	7.76	348216	11.09	337826	13.30	158652	3.53
ZZZZZZ	446169	6.59	600590	7.77	335786	11.09	326846	13.30	148391	3.54
ZZZZZZ	431598	6.59	583326	7.77	329953	11.09	318171	13.30	148834	3.54
ZZZZZZ	428462	6.59	581210	7.77	329142	11.09	318632	13.30	149803	3.54
MC27802-4	414949	6.60	558604	7.77	316631	11.09	305478	13.30	145067	3.54
MC27745-1	406377	6.59	557257	7.77	310309	11.09	304354	13.30	151441	3.53
ZZZZZZ	401109	6.59	549187	7.77	311970	11.09	299911	13.30	155317	3.53
ZZZZZZ	393741	6.59	535774	7.76	305510	11.09	294098	13.30	152672	3.53
ZZZZZZ	388659	6.59	530266	7.76	300650	11.09	291627	13.30	146580	3.53
ZZZZZZ	392234	6.59	528985	7.77	304146	11.09	308199	13.30	158145	3.54
ZZZZZZ	411592	6.59	553113	7.76	317236	11.09	320141	13.30	163870	3.54
ZZZZZZ	466570	6.59	577420	7.77	326056	11.09	315868	13.30	180262	3.54
MC27802-2	694621	6.59	934560	7.77	516679	11.09	625001	13.30	381248*	3.54
MC27802-3	756409	6.59	1025515	7.77	544213	11.09	660731	13.30	0*	0.00*
ZZZZZZ	603292	6.71	1184622	7.81	468431	11.09	432420	13.30	254273	3.54
ZZZZZZ	630576	6.58	909912	7.76	445841	11.09	432739	13.30	238761	3.53
ZZZZZZ	632396	6.58	907679	7.76	446914	11.09	434700	13.30	240749	3.53
MC27745-1MS	664916	6.58	865058	7.76	460540	11.09	478133	13.30	241459	3.53
MC27745-1MSD	684870	6.58	887114	7.76	474551	11.09	500960	13.30	261908	3.53

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: MC27802
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSV1030-CC1019	**Injection Date:**	01/23/14
Lab File ID:	V27284.D	**Injection Time:**	15:24
Instrument ID:	GCMSV	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	555218	6.56	705116	7.74	390526	11.08	407991	13.29	158449	3.51
Upper Limit [a]	1110436	7.06	1410232	8.24	781052	11.58	815982	13.79	316898	4.01
Lower Limit [b]	277609	6.06	352558	7.24	195263	10.58	203996	12.79	79225	3.01

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSV1030-BS	555218	6.56	705116	7.74	390526	11.08	407991	13.29	158449	3.51
MSV1030-MB	453280	6.56	614724	7.74	340168	11.07	326839	13.29	153995	3.51
ZZZZZZ	466893	6.56	619385	7.74	338116	11.07	315376	13.29	144783	3.51
ZZZZZZ	434286	6.56	578378	7.74	323632	11.07	324259	13.29	154639	3.52
MC27830-1	434510	6.56	574185	7.74	319907	11.07	303999	13.29	155259	3.51
ZZZZZZ	436309	6.56	563474	7.74	315824	11.07	299547	13.29	155507	3.51
ZZZZZZ	412096	6.56	548798	7.74	307524	11.07	290831	13.29	147595	3.51
MC27802-1	611087	6.55	734177	7.73	415365	11.07	434637	13.28	311612	3.52
MC27830-1MS	554748	6.55	700665	7.74	385176	11.07	408799	13.28	187504	3.51
MC27830-1MSD	558709	6.56	716488	7.74	391053	11.07	409245	13.28	189902	3.51
MC27802-1	537392	6.56	680291	7.74	374393	11.07	374605	13.28	181086	3.51
MC27802-2	521116	6.56	675921	7.74	370180	11.07	370673	13.28	187190	3.51
MC27802-3	517001	6.55	658473	7.73	358856	11.07	366090	13.28	188070	3.50
ZZZZZZ	473320	6.55	643479	7.74	348394	11.07	339009	13.28	176011	3.50
ZZZZZZ	452272	6.55	628015	7.73	342513	11.07	327174	13.28	176134	3.50
ZZZZZZ	448842	6.55	611624	7.74	334213	11.07	321873	13.28	172335	3.51
ZZZZZZ	419487	6.55	577125	7.73	323705	11.07	308993	13.28	149926	3.50
ZZZZZZ	410543	6.56	557565	7.74	313349	11.07	299503	13.28	145859	3.52
ZZZZZZ	408779	6.56	551284	7.74	315162	11.07	307384	13.28	142959	3.51

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: MC27802
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Method: SW846 8260C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC27802-1	V27296.D	95	99	102
MC27802-1	V27293.D	86	103	103
MC27802-2	V27297.D	97	98	104
MC27802-2	V27264.D	87	93	106
MC27802-3	V27298.D	96	99	105
MC27802-3	V27265.D	85	93	106
MC27802-4	V27255.D	107	100	103
MC27745-1MS	V27271.D	92	98	101
MC27745-1MSD	V27272.D	93	98	100
MC27830-1MS	V27294.D	95	98	101
MC27830-1MSD	V27295.D	97	99	102
MSV1029-BS	V27247.D	96	99	99
MSV1029-MB	V27251.D	103	98	104
MSV1030-BS	V27284.D	97	99	102
MSV1030-MB	V27287.D	105	97	105

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	70-130%
S2 = Toluene-D8	70-130%
S3 = 4-Bromofluorobenzene	70-130%

GC/MS Semi-volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC27802
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36626-MB	R36731.D	1	01/27/14	KR	01/22/14	OP36626	MSR1354

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC27802-1, MC27802-2, MC27802-3

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.38	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.49	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.33	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	ND	10	1.3	ug/l	
	3&4-Methylphenol	ND	10	2.0	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.50	ug/l	
100-02-7	4-Nitrophenol	ND	20	0.58	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	ND	5.0	0.51	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.57	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.32	ug/l	
62-53-3	Aniline	ND	10	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.20	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.85	ug/l	
100-51-6	Benzyl Alcohol	ND	10	0.57	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.92	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.25	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.21	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.23	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.13	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.20	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.65	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.68	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.64	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.50	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.39	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	0.43	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	0.50	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.50	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.49	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.30	ug/l	

Method Blank Summary

Job Number: MC27802
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36626-MB	R36731.D	1	01/27/14	KR	01/22/14	OP36626	MSR1354

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC27802-1, MC27802-2, MC27802-3

CAS No.	Compound	Result	RL	MDL	Units	Q
77-47-4	Hexachlorocyclopentadiene	ND	10	2.5	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.44	ug/l	
78-59-1	Isophorone	ND	5.0	0.20	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.50	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.3	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.25	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.0	0.50	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.81	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.54	ug/l	
110-86-1	Pyridine	ND	10	0.52	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	39%	15-110%
4165-62-2	Phenol-d5	28%	15-110%
118-79-6	2,4,6-Tribromophenol	72%	15-110%
4165-60-0	Nitrobenzene-d5	79%	30-130%
321-60-8	2-Fluorobiphenyl	63%	30-130%
1718-51-0	Terphenyl-d14	90%	30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

Method Blank Summary

Job Number: MC27802
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36627-MB	R36719.D	1	01/27/14	KR	01/22/14	OP36627	MSR1353

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

MC27802-1, MC27802-2, MC27802-3

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.069	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.050	ug/l	
120-12-7	Anthracene	ND	0.10	0.092	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	0.020	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.029	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	0.032	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.034	0.10	0.027	ug/l	J
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.039	ug/l	
218-01-9	Chrysene	ND	0.10	0.024	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.032	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.041	ug/l	
86-73-7	Fluorene	ND	0.10	0.099	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.031	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.20	0.050	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.20	0.074	ug/l	
85-01-8	Phenanthrene	0.025	0.050	0.013	ug/l	J
129-00-0	Pyrene	ND	0.10	0.038	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	82%	30-130%
321-60-8	2-Fluorobiphenyl	65%	30-130%
1718-51-0	Terphenyl-d14	86%	30-130%

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC27802
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36626-BS	R36732.D	1	01/27/14	KR	01/22/14	OP36626	MSR1354
OP36626-BSD	R36733.D	1	01/27/14	KR	01/22/14	OP36626	MSR1354

The QC reported here applies to the following samples: Method: SW846 8270D

MC27802-1, MC27802-2, MC27802-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	50	15.6	31	17.1	34	9	30-130/20
95-57-8	2-Chlorophenol	50	31.4	63	34.6	69	10	30-130/20
59-50-7	4-Chloro-3-methyl phenol	50	39.2	78	43.4	87	10	30-130/20
120-83-2	2,4-Dichlorophenol	50	35.9	72	39.3	79	9	30-130/20
105-67-9	2,4-Dimethylphenol	50	35.6	71	38.8	78	9	30-130/20
51-28-5	2,4-Dinitrophenol	50	31.9	64	32.8	66	3	30-130/20
534-52-1	4,6-Dinitro-o-cresol	50	40.1	80	41.9	84	4	30-130/20
95-48-7	2-Methylphenol	50	30.8	62	33.4	67	8	30-130/20
	3&4-Methylphenol	100	57.5	58	62.3	62	8	30-130/20
88-75-5	2-Nitrophenol	50	35.4	71	38.7	77	9	30-130/20
100-02-7	4-Nitrophenol	50	21.3	43	22.1	44	4	30-130/20
87-86-5	Pentachlorophenol	50	38.8	78	41.3	83	6	30-130/20
108-95-2	Phenol	50	15.7	31	16.8	34	7	30-130/20
95-95-4	2,4,5-Trichlorophenol	50	36.5	73	39.4	79	8	30-130/20
88-06-2	2,4,6-Trichlorophenol	50	35.9	72	39.6	79	10	30-130/20
62-53-3	Aniline	50	24.4	49	26.7	53	9	40-140/20
101-55-3	4-Bromophenyl phenyl ether	50	45.5	91	48.5	97	6	40-140/20
85-68-7	Butyl benzyl phthalate	50	55.6	111	59.2	118	6	40-140/20
100-51-6	Benzyl Alcohol	50	28.3	57	30.5	61	7	40-140/20
91-58-7	2-Chloronaphthalene	50	41.2	82	44.4	89	7	40-140/20
106-47-8	4-Chloroaniline	50	36.1	72	38.8	78	7	40-140/20
111-91-1	bis(2-Chloroethoxy)methane	50	40.9	82	44.5	89	8	40-140/20
111-44-4	bis(2-Chloroethyl)ether	50	40.6	81	43.9	88	8	40-140/20
108-60-1	bis(2-Chloroisopropyl)ether	50	40.3	81	43.3	87	7	40-140/20
7005-72-3	4-Chlorophenyl phenyl ether	50	46.2	92	49.0	98	6	40-140/20
122-66-7	1,2-Diphenylhydrazine	50	53.2	106	57.2	114	7	40-140/20
121-14-2	2,4-Dinitrotoluene	50	48.7	97	51.2	102	5	40-140/20
606-20-2	2,6-Dinitrotoluene	50	43.4	87	46.3	93	6	40-140/20
91-94-1	3,3'-Dichlorobenzidine	50	44.1	88	47.4	95	7	40-140/20
132-64-9	Dibenzofuran	50	43.0	86	46.1	92	7	40-140/20
84-74-2	Di-n-butyl phthalate	50	50.2	100	52.7	105	5	40-140/20
117-84-0	Di-n-octyl phthalate	50	58.7	117	62.5	125	6	40-140/20
84-66-2	Diethyl phthalate	50	47.2	94	48.3	97	2	40-140/20
131-11-3	Dimethyl phthalate	50	35.5	71	34.8	70	2	40-140/20
117-81-7	bis(2-Ethylhexyl)phthalate	50	57.3	115	60.6	121	6	40-140/20
118-74-1	Hexachlorobenzene	50	47.7	95	50.7	101	6	40-140/20

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC27802
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36626-BS	R36732.D	1	01/27/14	KR	01/22/14	OP36626	MSR1354
OP36626-BSD	R36733.D	1	01/27/14	KR	01/22/14	OP36626	MSR1354

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC27802-1, MC27802-2, MC27802-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
77-47-4	Hexachlorocyclopentadiene	50	15.0	30* [a]	17.1	34* [a]	13	40-140/20
67-72-1	Hexachloroethane	50	22.3	45	27.9	56	22* [b]	40-140/20
78-59-1	Isophorone	50	46.4	93	50.3	101	8	40-140/20
88-74-4	2-Nitroaniline	50	45.1	90	48.4	97	7	40-140/20
99-09-2	3-Nitroaniline	50	43.3	87	44.9	90	4	40-140/20
100-01-6	4-Nitroaniline	50	46.6	93	48.2	96	3	40-140/20
98-95-3	Nitrobenzene	50	44.9	90	49.0	98	9	40-140/20
62-75-9	n-Nitrosodimethylamine	50	23.3	47	26.8	54	14	40-140/20
621-64-7	N-Nitroso-di-n-propylamine	50	49.5	99	52.9	106	7	40-140/20
86-30-6	N-Nitrosodiphenylamine	50	45.0	90	48.3	97	7	40-140/20
110-86-1	Pyridine	50	19.4	39* [a]	22.0	44	13	40-140/20

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
367-12-4	2-Fluorophenol	40%	43%	15-110%
4165-62-2	Phenol-d5	30%	31%	15-110%
118-79-6	2,4,6-Tribromophenol	82%	86%	15-110%
4165-60-0	Nitrobenzene-d5	84%	90%	30-130%
321-60-8	2-Fluorobiphenyl	69%	75%	30-130%
1718-51-0	Terphenyl-d14	89%	93%	30-130%

(a) Outside control limits. Blank Spike meets program technical requirements.
(b) Outside control limits. Individual spike recoveries within acceptance limits.

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC27802
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36627-BS	R36720.D	1	01/27/14	KR	01/22/14	OP36627	MSR1353
OP36627-BSD	R36721.D	1	01/27/14	KR	01/22/14	OP36627	MSR1353

The QC reported here applies to the following samples: Method: SW846 8270D BY SIM

MC27802-1, MC27802-2, MC27802-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	50	44.2	88	47.8	96	8	40-140/30
208-96-8	Acenaphthylene	50	35.0	70	37.8	76	8	40-140/30
120-12-7	Anthracene	50	49.6	99	51.8	104	4	40-140/30
56-55-3	Benzo(a)anthracene	50	63.9	128	66.8	134	4	40-140/30
50-32-8	Benzo(a)pyrene	50	47.7	95	49.9	100	5	40-140/30
205-99-2	Benzo(b)fluoranthene	50	54.8	110	57.3	115	4	40-140/30
191-24-2	Benzo(g,h,i)perylene	50	53.9	108	56.4	113	5	40-140/30
207-08-9	Benzo(k)fluoranthene	50	53.2	106	55.7	111	5	40-140/30
218-01-9	Chrysene	50	53.2	106	57.8	116	8	40-140/30
53-70-3	Dibenzo(a,h)anthracene	50	57.2	114	59.9	120	5	40-140/30
206-44-0	Fluoranthene	50	58.2	116	60.5	121	4	40-140/30
86-73-7	Fluorene	50	48.1	96	51.5	103	7	40-140/30
193-39-5	Indeno(1,2,3-cd)pyrene	50	56.5	113	59.0	118	4	40-140/30
90-12-0	1-Methylnaphthalene	50	36.8	74	40.9	82	11	40-140/30
91-57-6	2-Methylnaphthalene	50	35.5	71	39.4	79	10	40-140/30
85-01-8	Phenanthrene	50	51.2	102	53.4	107	4	40-140/30
129-00-0	Pyrene	50	57.9	116	60.1	120	4	40-140/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
4165-60-0	Nitrobenzene-d5	86%	91%	30-130%
321-60-8	2-Fluorobiphenyl	70%	76%	30-130%
1718-51-0	Terphenyl-d14	85%	88%	30-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27802
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36626-MS	R36748.D	1	01/27/14	KR	01/22/14	OP36626	MSR1354
OP36626-MSD	R36749.D	1	01/27/14	KR	01/22/14	OP36626	MSR1354
MC27500-17	R36750.D	1	01/27/14	KR	01/22/14	OP36626	MSR1354

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC27802-1, MC27802-2, MC27802-3

CAS No.	Compound	MC27500-17 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		50	16.9	34	50	15.9	32	6	30-130/20
95-57-8	2-Chlorophenol	ND		50	36.3	73	50	33.7	67	7	30-130/20
59-50-7	4-Chloro-3-methyl phenol	ND		50	43.3	87	50	41.2	82	5	30-130/20
120-83-2	2,4-Dichlorophenol	ND		50	40.5	81	50	36.6	73	10	30-130/20
105-67-9	2,4-Dimethylphenol	ND		50	34.5	69	50	30.5	61	12	30-130/20
51-28-5	2,4-Dinitrophenol	ND		50	7.8	16* [a]	50	9.7	19* [a]	22* [b]	30-130/20
534-52-1	4,6-Dinitro-o-cresol	ND		50	12.9	26* [a]	50	15.6	31	19	30-130/20
95-48-7	2-Methylphenol	ND		50	33.9	68	50	30.6	61	10	30-130/20
	3&4-Methylphenol	ND		100	63.6	64	100	57.4	57	10	30-130/20
88-75-5	2-Nitrophenol	ND		50	36.9	74	50	34.4	69	7	30-130/20
100-02-7	4-Nitrophenol	ND		50	21.1	42	50	22.0	44	4	30-130/20
87-86-5	Pentachlorophenol	ND		50	39.4	79	50	40.8	82	3	30-130/20
108-95-2	Phenol	ND		50	17.1	34	50	16.0	32	7	30-130/20
95-95-4	2,4,5-Trichlorophenol	ND		50	40.9	82	50	39.7	79	3	30-130/20
88-06-2	2,4,6-Trichlorophenol	ND		50	39.8	80	50	37.9	76	5	30-130/20
62-53-3	Aniline	ND		50	27.4	55	50	24.8	50	10	40-140/20
101-55-3	4-Bromophenyl phenyl ether	ND		50	50.9	102	50	50.9	102	0	40-140/20
85-68-7	Butyl benzyl phthalate	ND		50	60.8	122	50	60.4	121	1	40-140/20
100-51-6	Benzyl Alcohol	ND		50	29.5	59	50	24.7	49	18	40-140/20
91-58-7	2-Chloronaphthalene	ND		50	46.2	92	50	42.9	86	7	40-140/20
106-47-8	4-Chloroaniline	ND		50	40.8	82	50	36.4	73	11	40-140/20
111-91-1	bis(2-Chloroethoxy)methane	ND		50	45.5	91	50	40.7	81	11	40-140/20
111-44-4	bis(2-Chloroethyl)ether	ND		50	46.3	93	50	43.1	86	7	40-140/20
108-60-1	bis(2-Chloroisopropyl)ether	ND		50	46.1	92	50	42.1	84	9	40-140/20
7005-72-3	4-Chlorophenyl phenyl ether	ND		50	51.0	102	50	50.4	101	1	40-140/20
122-66-7	1,2-Diphenylhydrazine	ND		50	58.3	117	50	58.1	116	0	40-140/20
121-14-2	2,4-Dinitrotoluene	ND		50	51.1	102	50	52.1	104	2	40-140/20
606-20-2	2,6-Dinitrotoluene	ND		50	47.9	96	50	47.5	95	1	40-140/20
91-94-1	3,3'-Dichlorobenzidine	ND		50	52.5	105	50	52.8	106	1	40-140/20
132-64-9	Dibenzofuran	ND		50	48.2	96	50	45.9	92	5	40-140/20
84-74-2	Di-n-butyl phthalate	ND		50	54.3	109	50	54.5	109	0	40-140/20
117-84-0	Di-n-octyl phthalate	ND		50	65.5	131	50	65.2	130	0	40-140/20
84-66-2	Diethyl phthalate	ND		50	50.8	102	50	52.5	105	3	40-140/20
131-11-3	Dimethyl phthalate	ND		50	38.2	76	50	41.6	83	9	40-140/20
117-81-7	bis(2-Ethylhexyl)phthalate	ND		50	63.5	127	50	62.6	125	1	40-140/20
118-74-1	Hexachlorobenzene	ND		50	51.3	103	50	52.6	105	3	40-140/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27802
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36626-MS	R36748.D	1	01/27/14	KR	01/22/14	OP36626	MSR1354
OP36626-MSD	R36749.D	1	01/27/14	KR	01/22/14	OP36626	MSR1354
MC27500-17	R36750.D	1	01/27/14	KR	01/22/14	OP36626	MSR1354

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC27802-1, MC27802-2, MC27802-3

CAS No.	Compound	MC27500-17 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
77-47-4	Hexachlorocyclopentadiene	ND		50	9.5	19* [a]	50	9.2	18* [a]	3	40-140/20
67-72-1	Hexachloroethane	ND		50	27.6	55	50	27.7	55	0	40-140/20
78-59-1	Isophorone	ND		50	52.2	104	50	46.6	93	11	40-140/20
88-74-4	2-Nitroaniline	ND		50	50.3	101	50	49.0	98	3	40-140/20
99-09-2	3-Nitroaniline	ND		50	47.0	94	50	47.4	95	1	40-140/20
100-01-6	4-Nitroaniline	ND		50	49.7	99	50	50.5	101	2	40-140/20
98-95-3	Nitrobenzene	ND		50	51.1	102	50	47.3	95	8	40-140/20
62-75-9	n-Nitrosodimethylamine	ND		50	28.7	57	50	25.9	52	10	40-140/20
621-64-7	N-Nitroso-di-n-propylamine	ND		50	56.0	112	50	49.8	100	12	40-140/20
86-30-6	N-Nitrosodiphenylamine	ND		50	48.7	97	50	50.1	100	3	40-140/20
110-86-1	Pyridine	ND		50	23.0	46	50	20.7	41	11	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC27500-17	Limits
367-12-4	2-Fluorophenol	46%	43%	44%	15-110%
4165-62-2	Phenol-d5	33%	30%	30%	15-110%
118-79-6	2,4,6-Tribromophenol	85%	90%	76%	15-110%
4165-60-0	Nitrobenzene-d5	95%	88%	94%	30-130%
321-60-8	2-Fluorobiphenyl	76%	72%	75%	30-130%
1718-51-0	Terphenyl-d14	94%	97%	96%	30-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.
(b) High RPD due to possible matrix interference and/or sample non-homogeneity.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27802
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36627-MS	R36722.D	1	01/27/14	KR	01/22/14	OP36627	MSR1353
OP36627-MSD	R36723.D	1	01/27/14	KR	01/22/14	OP36627	MSR1353
MC27500-18	R36724.D	1	01/27/14	KR	01/22/14	OP36627	MSR1353

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

MC27802-1, MC27802-2, MC27802-3

CAS No.	Compound	MC27500-18 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND		50	49.7	99	50	47.0	94	6	40-140/20
208-96-8	Acenaphthylene	ND		50	39.3	79	50	36.8	74	7	40-140/20
120-12-7	Anthracene	ND		50	53.5	107	50	54.2	108	1	40-140/20
56-55-3	Benzo(a)anthracene	ND		50	68.8	138	50	68.4	137	1	40-140/20
50-32-8	Benzo(a)pyrene	ND		50	51.1	102	50	51.2	102	0	40-140/20
205-99-2	Benzo(b)fluoranthene	ND		50	58.0	116	50	59.8	120	3	40-140/20
191-24-2	Benzo(g,h,i)perylene	ND		50	58.0	116	50	57.9	116	0	40-140/20
207-08-9	Benzo(k)fluoranthene	ND		50	52.8	106	50	55.8	112	6	40-140/20
218-01-9	Chrysene	ND		50	59.6	119	50	59.5	119	0	40-140/20
53-70-3	Dibenzo(a,h)anthracene	ND		50	61.3	123	50	61.3	123	0	40-140/20
206-44-0	Fluoranthene	ND		50	62.4	125	50	62.2	124	0	40-140/20
86-73-7	Fluorene	ND		50	53.3	107	50	52.2	104	2	40-140/20
193-39-5	Indeno(1,2,3-cd)pyrene	ND		50	60.4	121	50	60.3	121	0	40-140/20
90-12-0	1-Methylnaphthalene	0.054	J	50	42.7	85	50	39.4	79	8	40-140/20
91-57-6	2-Methylnaphthalene	ND		50	41.0	82	50	38.1	76	7	40-140/20
85-01-8	Phenanthrene	0.025	JB	50	55.1	110	50	55.6	111	1	40-140/20
129-00-0	Pyrene	ND		50	62.4	125	50	62.2	124	0	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC27500-18	Limits
4165-60-0	Nitrobenzene-d5	95%	89%	97%	30-130%
321-60-8	2-Fluorobiphenyl	78%	73%	75%	30-130%
1718-51-0	Terphenyl-d14	89%	90%	89%	30-130%

* = Outside of Control Limits.

Semivolatile Internal Standard Area Summary

Job Number: MC27802
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSR1353-CC1261	**Injection Date:**	01/27/14
Lab File ID:	R36718.D	**Injection Time:**	08:50
Instrument ID:	GCMSR	**Method:**	SW846 8270D BY SIM

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Check Std	581026	4.32	1876859	5.38	1072053	6.92	1767446	8.34	1338687	11.11	2475860	12.61
Upper Limit [a]	1162052	4.82	3753718	5.88	2144106	7.42	3534892	8.84	2677374	11.61	4951720	13.11
Lower Limit [b]	290513	3.82	938430	4.88	536027	6.42	883723	7.84	669344	10.61	1237930	12.11
Lab Sample ID	**IS 1**		**IS 2**		**IS 3**		**IS 4**		**IS 5**		**IS 6**	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
OP36627-MB	547766	4.32	1755233	5.38	1005400	6.92	1651699	8.33	1233044	11.11	2356644	12.61
OP36627-BS	492772	4.32	1578993	5.38	896427	6.92	1472763	8.34	1158858	11.11	2096961	12.61
OP36627-BSD	464036	4.32	1500845	5.38	860130	6.92	1413181	8.34	1117243	11.11	2007751	12.61
OP36627-MS	452125	4.32	1460250	5.38	838498	6.92	1367315	8.34	1067672	11.11	1926846	12.61
OP36627-MSD	462107	4.32	1489223	5.38	851026	6.92	1393239	8.34	1095775	11.11	1959252	12.61
MC27500-18	441749	4.32	1436246	5.38	832347	6.91	1361984	8.33	1040431	11.11	1909033	12.61
MC27802-1	464517	4.32	1501624	5.38	854565	6.91	1398480	8.33	1072421	11.11	1944744	12.61
MC27802-2	492505	4.32	1562156	5.38	896100	6.92	1466871	8.33	1112271	11.10	2032170	12.61
MC27802-3	497113	4.32	1575889	5.38	908721	6.91	1483644	8.33	1124704	11.11	2041246	12.61

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC27802
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSR1354-CC1262	**Injection Date:**	01/27/14
Lab File ID:	R36730.D	**Injection Time:**	15:43
Instrument ID:	GCMSR	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	379567	4.29	1436214	5.35	882064	6.89	1552616	8.17	1674452	10.81	1514073	12.55
Upper Limit [a]	759134	4.79	2872428	5.85	1764128	7.39	3105232	8.67	3348904	11.31	3028146	13.05
Lower Limit [b]	189784	3.79	718107	4.85	441032	6.39	776308	7.67	837226	10.31	757037	12.05

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP36626-MB	282043	4.29	1042609	5.35	633693	6.88	1109034	8.17	1143534	10.80	1073210	12.54
OP36626-BS	277198	4.29	1024329	5.35	621740	6.88	1098386	8.17	1173970	10.81	1092881	12.54
OP36626-BSD	255134	4.29	933063	5.35	568754	6.88	985203	8.17	1048523	10.80	960993	12.54
OP36631-MB	513257	4.32	1611570	5.37	903441	6.92	1449274	8.33	1067274	11.10	1944820	12.61
OP36631-BS	556813	4.32	1749077	5.38	981041	6.92	1573588	8.34	1199646	11.11	2141176	12.61
OP36631-BSD	528120	4.32	1669357	5.38	938544	6.92	1514918	8.34	1161693	11.11	2063793	12.61
OP36631-MS	528144	4.32	1691846	5.38	972926	6.92	1599671	8.33	1243984	11.11	2349736	12.61
OP36631-MSD	499031	4.32	1611550	5.38	929272	6.91	1532018	8.34	1202895	11.11	2307960	12.61
MC27794-2	485357	4.32	1556988	5.38	893183	6.91	1474635	8.33	1163249	11.11	2233867	12.62
ZZZZZZ	458731	4.32	1441004	5.38	813422	6.91	1310415	8.33	1020229	11.11	1986107	12.62
ZZZZZZ	513802	4.32	1627978	5.38	929501	6.92	1522272	8.34	1183045	11.11	2280561	12.62
ZZZZZZ	490301	4.32	1567014	5.38	898743	6.92	1478278	8.34	1152419	11.11	2204806	12.61
ZZZZZZ	498558	4.32	1597362	5.38	923316	6.92	1543291	8.34	1265193	11.12	2365218	12.63
ZZZZZZ	451527	4.32	1426868	5.38	809035	6.92	1313922	8.34	1027885	11.11	1972329	12.61
ZZZZZZ	482465	4.32	1558872	5.38	904536	6.92	1504573	8.34	1207194	11.11	2274196	12.62
OP36626-MS	244434	4.29	909913	5.35	557537	6.89	971642	8.17	1037846	10.81	969958	12.55
OP36626-MSD	266913	4.29	995069	5.35	601353	6.89	1049285	8.17	1142033	10.81	1060384	12.55
MC27500-17	259235	4.29	967586	5.35	583767	6.88	1025364	8.17	1056133	10.80	1019456	12.55
ZZZZZZ	254117	4.29	949214	5.35	574382	6.88	1008122	8.17	1037573	10.80	984800	12.55
ZZZZZZ	304208	4.29	1132821	5.35	691739	6.88	1220572	8.17	1240298	10.80	1181751	12.54
ZZZZZZ	328646	4.29	1235048	5.35	757256	6.89	1320429	8.17	1378358	10.81	1298523	12.55
ZZZZZZ	294330	4.29	1089941	5.35	672603	6.89	1166912	8.17	1218449	10.80	1165096	12.54
ZZZZZZ	319337	4.29	1226857	5.35	729488	6.88	1263954	8.17	1280326	10.81	1224654	12.55
MC27802-1	303547	4.29	1136728	5.35	677301	6.89	1155693	8.17	1161775	10.80	1093906	12.54
MC27802-2	296710	4.29	1099632	5.35	667390	6.88	1129865	8.17	1159031	10.80	1100127	12.55
MC27802-3	317106	4.29	1182389	5.35	716371	6.89	1214476	8.17	1238663	10.80	1194343	12.54
ZZZZZZ	297049	4.29	1124810	5.35	667448	6.88	1152967	8.17	1174020	10.80	1111934	12.54
ZZZZZZ	276439	4.29	1069153	5.35	625434	6.88	1068623	8.17	1081438	10.80	1031012	12.54
ZZZZZZ	286445	4.29	1075140	5.35	649052	6.88	1107580	8.17	1115067	10.80	1064451	12.55
ZZZZZZ	317498	4.29	1183489	5.35	714847	6.88	1225444	8.17	1258136	10.80	1195491	12.55
ZZZZZZ	578981	4.32	1828186	5.38	1067241	6.92	1733555	8.34	1312938	11.11	2424927	12.62
ZZZZZZ	505007	4.32	1675705	5.38	947570	6.92	1529405	8.33	1129142	11.11	2088731	12.61
ZZZZZZ	524533	4.32	1716603	5.38	967757	6.92	1560635	8.34	1177251	11.11	2199124	12.61
ZZZZZZ	564023	4.32	1823310	5.38	1040234	6.91	1707677	8.34	1282483	11.11	2387177	12.61
ZZZZZZ	282807	4.29	1120498	5.35	619578	6.88	1174733	8.17	1209248	10.80	1169524	12.54

Semivolatile Internal Standard Area Summary

Job Number: MC27802
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSR1354-CC1262	**Injection Date:**	01/27/14
Lab File ID:	R36730.D	**Injection Time:**	15:43
Instrument ID:	GCMSR	**Method:**	SW846 8270D

Lab Sample ID	IS 1 AREA	IS 1 RT	IS 2 AREA	IS 2 RT	IS 3 AREA	IS 3 RT	IS 4 AREA	IS 4 RT	IS 5 AREA	IS 5 RT	IS 6 AREA	IS 6 RT
ZZZZZZ	283979	4.29	1102459	5.35	620195	6.88	1186438	8.17	1237090	10.80	1178609	12.54
ZZZZZZ	312950	4.29	1211816	5.35	678189	6.88	1278673	8.17	1337862	10.80	1259166	12.54
ZZZZZZ	298934	4.29	1164888	5.35	653293	6.88	1238974	8.17	1280479	10.80	1219695	12.54

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Surrogate Recovery Summary

Job Number: MC27802
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Method: SW846 8270D **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
MC27802-1	R36756.D	44	33	80	81	65	95
MC27802-2	R36757.D	56	29	74	85	67	83
MC27802-3	R36758.D	51	27	71	80	61	80
OP36626-BS	R36732.D	40	30	82	84	69	89
OP36626-BSD	R36733.D	43	31	86	90	75	93
OP36626-MB	R36731.D	39	28	72	79	63	90
OP36626-MS	R36748.D	46	33	85	95	76	94
OP36626-MSD	R36749.D	43	30	90	88	72	97

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	15-110%
S2 = Phenol-d5	15-110%
S3 = 2,4,6-Tribromophenol	15-110%
S4 = Nitrobenzene-d5	30-130%
S5 = 2-Fluorobiphenyl	30-130%
S6 = Terphenyl-d14	30-130%

Semivolatile Surrogate Recovery Summary

Job Number: MC27802
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Method: SW846 8270D BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC27802-1	R36725.D	82	66	89
MC27802-2	R36726.D	91	74	89
MC27802-3	R36727.D	82	66	85
OP36627-BS	R36720.D	86	70	85
OP36627-BSD	R36721.D	91	76	88
OP36627-MB	R36719.D	82	65	86
OP36627-MS	R36722.D	95	78	89
OP36627-MSD	R36723.D	89	73	90

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	30-130%
S2 = 2-Fluorobiphenyl	30-130%
S3 = Terphenyl-d14	30-130%

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries

Method Blank Summary

Job Number: MC27802
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36632-MB	YZ87719.D	1	01/23/14	CZ	01/22/14	OP36632	GYZ7477

The QC reported here applies to the following samples: **Method:** SW846 8011

MC27802-1, MC27802-2, MC27802-3, MC27802-5

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0054	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.011	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	Bromofluorobenzene (S)	118%	36-173%
460-00-4	Bromofluorobenzene (S)	114%	36-173%

Blank Spike Summary

Job Number: MC27802
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36632-BS	YZ87720.D	1	01/23/14	CZ	01/22/14	OP36632	GYZ7477

The QC reported here applies to the following samples: **Method:** SW846 8011

MC27802-1, MC27802-2, MC27802-3, MC27802-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
96-12-8	1,2-Dibromo-3-chloropropane	0.071	0.099	139	60-140
106-93-4	1,2-Dibromoethane	0.071	0.081	114	60-140

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	Bromofluorobenzene (S)	148%	36-173%
460-00-4	Bromofluorobenzene (S)	140%	36-173%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27802
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36632-MS	YZ87724.D	1	01/23/14	CZ	01/22/14	OP36632	GYZ7477
OP36632-MSD	YZ87725.D	1	01/23/14	CZ	01/22/14	OP36632	GYZ7477
MC27500-19	YZ87726.D	1	01/23/14	CZ	01/22/14	OP36632	GYZ7477

The QC reported here applies to the following samples: **Method:** SW846 8011

MC27802-1, MC27802-2, MC27802-3, MC27802-5

CAS No.	Compound	MC27500-19 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
96-12-8	1,2-Dibromo-3-chloropropane	ND		0.071	0.099	139	0.071	0.10	141	1	64-141/29
106-93-4	1,2-Dibromoethane	ND		0.071	0.073	103	0.071	0.084	118	14	63-163/27

CAS No.	Surrogate Recoveries	MS	MSD	MC27500-19	Limits
460-00-4	Bromofluorobenzene (S)	145%	150%	154%	36-173%
460-00-4	Bromofluorobenzene (S)	156%	137%	158%	36-173%

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: MC27802
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Method: SW846 8011 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]
MC27802-1	YZ87727.D	146	153
MC27802-2	YZ87728.D	279* [c]	276* [c]
MC27802-3	YZ87729.D	137	161
MC27802-5	YZ87730.D	87	87
OP36632-BS	YZ87720.D	148	140
OP36632-MB	YZ87719.D	118	114
OP36632-MS	YZ87724.D	145	156
OP36632-MSD	YZ87725.D	150	137

Surrogate Compounds	Recovery Limits
S1 = Bromofluorobenzene (S)	36-173%

(a) Recovery from GC signal #2
(b) Recovery from GC signal #1
(c) Outside control limits due to possible matrix interference.

GC Surrogate Retention Time Summary

Job Number: MC27802
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	GYZ7477-ICC7477	**Injection Date:**	01/23/14
Lab File ID:	YZ87714.D	**Injection Time:**	10:16
Instrument ID:	GCYZ	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	3.56	3.45

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
ZZZZZZ	YZ87717A.D	01/23/14	11:31	3.57	3.47
OP36632-MB	YZ87719.D	01/23/14	12:21	3.56	3.42
OP36632-BS	YZ87720.D	01/23/14	12:47	3.56	3.43
ZZZZZZ	YZ87721.D	01/23/14	13:12	3.56	3.42
ZZZZZZ	YZ87722.D	01/23/14	13:36	3.56	3.44

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC27802
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	GYZ7477-CC7477	**Injection Date:**	01/23/14
Lab File ID:	YZ87723.D	**Injection Time:**	14:01
Instrument ID:	GCYZ	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	3.56	3.43

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
OP36632-MS	YZ87724.D	01/23/14	14:35	3.55	3.42
OP36632-MSD	YZ87725.D	01/23/14	14:59	3.56	3.43
MC27500-19	YZ87726.D	01/23/14	15:25	3.56	3.43
MC27802-1	YZ87727.D	01/23/14	15:50	3.55	3.39
MC27802-2	YZ87728.D	01/23/14	16:15	3.55	3.38
MC27802-3	YZ87729.D	01/23/14	16:40	3.55	3.38
MC27802-5	YZ87730.D	01/23/14	17:07	3.56	3.44

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

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Automated Report

Technical Report for

Shell Oil

URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana,



SGS Accutest Job Number: MC27828

Sampling Date: 01/22/14

Report to:

AECOM, INC.

Melissa.mansker@aecom.com

ATTN: Melissa Mansker

Total number of pages in report: 141

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

H. (Brad) Madadian
Lab Director

Client Service contact: Jeremy Vienneau 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO (MA00136) MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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Test results relate only to samples analyzed.

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Unauthorized modification of this report is strictly prohibited.

SGS ACCUTEST

October 28, 2016

AECOM
1001 Highlands Plaza Drive West Suite 300
St. Louis, MO 63110

RE: SGS Accutest Job # MC27828

Dear Elizabeth Kunkel

As you are aware, SGS Accutest Inc. - Marlborough has been conducting an extensive review of data associated with some historical Gas Chromatography-Mass Spectroscopy volatiles analyses. As a result of this review it was determined that some revisions of the original test report for this job were needed. These corrections have been incorporated into the revised report.

Please be assured that corrective actions have been put in place to address this matter and prevent a recurrence.

We apologize for any inconvenience that this issue may have caused. Please don't hesitate to contact us if we can be of further assistance.

Sincerely,

H. (Brad) Madadian

Regional Laboratory Director
SGS Accutest Inc. - Marlborough

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Sample Summary

Shell Oil

Job No: MC27828

URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC27828-1	01/22/14	15:25		01/23/14	AQ	Ground Water	P56-ROX-012214
MC27828-2	01/22/14	00:00		01/23/14	AQ	Ground Water	TB-ROX-012214-HCL
MC27828-3	01/22/14	00:00		01/23/14	AQ	Ground Water	TB-ROX-012214-ST

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: She O **Job No** MC27828

Site: URSMOSTL:Roxana Q 4 GW/ 2 562973 0300 900 South Centra **Report Date** 0/28/20 6 6: 3: 7 P

3 Samp e(s), 0 Tr p B ank(s) and 0 F e d B ank(s) were co ected on 0 /22/20 4 and were rece ved at SGS Accutest New Eng and on 0 /23/20 4 proper y preserved, at 0 7 Deg C and ntact These Samp es rece ved a job number of MC27828 A st ng of the Laboratory Samp e ID, C ent Samp e ID and dates of co ect on are presented n the Resu ts Summary Sect on of th s repo t - Ch orohexane, Benzeneth o , D benz(a,h)acr d ne, Indene and Qu no ne were searched n the brary search and reported on y f detect ons were found

Except as noted be ow, a method spec f ed ca brat ons and qua ty contro performance cr ter a were met for th s job For more nformat on, p ease refer to QC summary pages

Volatiles by GCMS By Method SW846 8260C

Matrix: AQ **Batch ID:** MSV 03

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC27829- MS, MC27829- MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a
- B ank Sp ke Recove y(s) for 2-Ch oroethy v ny ether, Acro e n are outs de contro m ts
- Matr x Sp ke Recovery(s) for 2-Ch oroethy v ny ether, Acetone, Acro e n are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference
- Matr x Sp ke Dup cate Recovery(s) for 2,2-D ch oropropane, Acetone, Acro e n, 2-Ch oroethy v ny ether are outs de contro m ts H gh RPD due to poss b e matr x nte ference and/or samp e non-homogene ty
- RPD(s) for MSD for 2-Ch oroethy v ny ether outs de contro m ts for samp e MC27829- MSD H gh RPD due to poss b e matr x nterference and/or samp e non-homogene ty
- MSV 03 -BS/BSD for 2-Ch oroethy v ny ether, Acro e n: Outs de contro m ts Assoc ated samp es are non-detect for th s compound

Matrix: AQ **Batch ID:** MSV 035

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC27893-2MS, MC27893-2MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a
- B ank Sp ke Recove y(s) for 2-Ch oroethy v ny ether, Acro e n are outs de contro m ts
- Matr x Sp ke Recovery(s) for 2,2-D ch oropropane, Acetone, Acro e n are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference
- Matr x Sp ke Dup cate Recovery(s) for Acetone, Acro e n, 2-Ch oroethy v ny ether are outs de contro m ts H gh RPD due to poss b e matr x nterference and/or samp e non-homogene ty
- RPD(s) for MSD for 2-Ch oroethy v ny ether outs de contro m ts for samp e MC27893-2MSD H gh RPD due to poss b e matr x nterference and/or samp e non-homogene ty
- Methy Tert Buty Ether: Cont nu ng Ca brat on outs de of acceptance cr ter a Samp e resu t may be b ased h gh
- MSV 035-BS/BSD for 2-Ch oroethy v ny ether, Acro e n: Outs de contro m ts Assoc ated samp es are non-detect for th s compound

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP36652

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- A method b anks for th s batch meet method spec f c cr ter a
- Samp e(s) MC27500-23MS, MC27500-23MSD were used as the QC samp es nd cated
- B ank Sp ke Recove y(s) for b s(2-Ch oro sopropy)ether are outs de contro m ts
- Matr x Sp ke Recovery(s) for b s(2-Ch oro sopropy)ether are outs de contro m ts Probab e cause due to matr x nterference
- Matr x Sp ke Dup cate Recovery(s) for b s(2-Ch oro sopropy)ether are outs de contro m ts Probab e cause due to matr x nterference
- MC27828- , OP36652-MS for 2,4,6-Tr bromopheno : Outs de contro m ts Assoc ated target ana ytes are non-detect
- OP36652-BS/MS/MSD for b s(2-Ch oro sopropy)ether: Outs de contro m ts Assoc ated samp es are non-detect for th s compound
- In t a ca brat on ver f cat on for An ne, b s(2-ch oro sopropy)ether exceeds 30% D fference These compounds are w th n cr ter a n cont nu ng ca brat on ver f cat on check standard

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP36653

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC27500-24MS, MC27500-24MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a

Volatiles by GC By Method SW846 8011

Matrix: AQ **Batch ID:** OP36674

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC27800-5MS, MC27800-5MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a

SGS Accutest New Eng and ce t f es that a ana ys s were performed w th n method spec f cat on It s further recommended that th s report to be used n ts ent rety The Laborato y D rector for SGS Accutest New Eng and or ass gnee as ver f ed by the s gnature on the cover page has author zed the re ease of th s report(MC27828)

Summary of Hits

Job Number: MC27828
Account: Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL
Collected: 01/22/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC27828-1	P56-ROX-012214					
Benzene		89.5	0.50	0.45	ug/l	SW846 8260C
n-Butylbenzene		3.3 J	5.0	0.54	ug/l	SW846 8260C
sec-Butylbenzene		2.3 J	5.0	0.58	ug/l	SW846 8260C
Ethylbenzene		305	1.0	0.38	ug/l	SW846 8260C
Isopropylbenzene		39.9	5.0	0.64	ug/l	SW846 8260C
p-Isopropyltoluene		1.8 J	5.0	0.55	ug/l	SW846 8260C
Naphthalene		56.6	5.0	0.79	ug/l	SW846 8260C
n-Propylbenzene		42.6	5.0	0.59	ug/l	SW846 8260C
Toluene		26.3	1.0	0.46	ug/l	SW846 8260C
1,2,4-Trimethylbenzene		74.0	5.0	0.47	ug/l	SW846 8260C
1,3,5-Trimethylbenzene		17.2	5.0	1.1	ug/l	SW846 8260C
m,p-Xylene		224	1.0	0.70	ug/l	SW846 8260C
o-Xylene		9.3	1.0	0.41	ug/l	SW846 8260C
Xylene (total)		233	1.0	0.41	ug/l	SW846 8260C
Dibenzofuran		0.47 J	2.1	0.16	ug/l	SW846 8270D
Acenaphthene		0.55	0.10	0.071	ug/l	SW846 8270D BY SIM
Anthracene		0.13	0.10	0.095	ug/l	SW846 8270D BY SIM
Fluorene		0.35	0.10	0.10	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene		19.3	0.21	0.051	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		22.8	0.21	0.076	ug/l	SW846 8270D BY SIM
Phenanthrene		1.2	0.052	0.013	ug/l	SW846 8270D BY SIM

MC27828-2 TB-ROX-012214-HCL

No hits reported in this sample.

MC27828-3 TB-ROX-012214-ST

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	P56-ROX-012214		
Lab Sample ID:	MC27828-1	**Date Sampled:**	01/22/14
Matrix:	AQ - Ground Water	**Date Received:**	01/23/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V27450.D	1	01/29/14	AMY	n/a	n/a	MSV1035
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	89.5	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
104-51-8	n-Butylbenzene	3.3	5.0	0.54	ug/l	J
135-98-8	sec-Butylbenzene	2.3	5.0	0.58	ug/l	J
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P56-ROX-012214		
Lab Sample ID:	MC27828-1	**Date Sampled:**	01/22/14
Matrix:	AQ - Ground Water	**Date Received:**	01/23/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
123-91-1	1,4-Dioxane	ND	25	16	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	305	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
98-82-8	Isopropylbenzene	39.9	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	1.8	5.0	0.55	ug/l	J
1634-04-4	Methyl Tert Butyl Ether [a]	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	56.6	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	42.6	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	26.3	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	74.0	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	17.2	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	224	1.0	0.70	ug/l	
95-47-6	o-Xylene	9.3	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	233	1.0	0.41	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P56-ROX-012214		
Lab Sample ID:	MC27828-1	**Date Sampled:**	01/22/14
Matrix:	AQ - Ground Water	**Date Received:**	01/23/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		70-130%
2037-26-5	Toluene-D8	99%		70-130%
460-00-4	4-Bromofluorobenzene	107%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased high.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P56-ROX-012214		
Lab Sample ID:	MC27828-1	**Date Sampled:**	01/22/14
Matrix:	AQ - Ground Water	**Date Received:**	01/23/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W17436.D	1	01/29/14	KR	01/28/14	OP36652	MSW766
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.2	0.40	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.51	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.34	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	ND	10	1.3	ug/l	
	3&4-Methylphenol	ND	10	2.1	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.52	ug/l	
100-02-7	4-Nitrophenol	ND	21	0.60	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	ND	5.2	0.53	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.59	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.33	ug/l	
62-53-3	Aniline	ND	10	0.66	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.2	0.21	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.2	0.88	ug/l	
100-51-6	Benzyl Alcohol	ND	10	0.59	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.2	0.95	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.26	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.2	0.22	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.2	0.24	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.2	0.14	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.2	0.20	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.2	0.67	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.70	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.66	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.2	0.52	ug/l	
132-64-9	Dibenzofuran	0.47	2.1	0.16	ug/l	J
84-74-2	Di-n-butyl phthalate	ND	5.2	0.40	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.2	0.45	ug/l	

ND = Not detected MDL = Method Detection Limit
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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P56-ROX-012214		
Lab Sample ID:	MC27828-1	**Date Sampled:**	01/22/14
Matrix:	AQ - Ground Water	**Date Received:**	01/23/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.2	0.52	ug/l	
131-11-3	Dimethyl phthalate	ND	5.2	0.52	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.50	ug/l	
118-74-1	Hexachlorobenzene	ND	5.2	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.6	ug/l	
67-72-1	Hexachloroethane	ND	5.2	0.45	ug/l	
78-59-1	Isophorone	ND	5.2	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.29	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.52	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.5	ug/l	
98-95-3	Nitrobenzene	ND	5.2	0.26	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.2	0.52	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.2	0.83	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.2	0.56	ug/l	
110-86-1	Pyridine	ND	10	0.53	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	42%		15-110%
4165-62-2	Phenol-d5	31%		15-110%
118-79-6	2,4,6-Tribromophenol	111% [a]		15-110%
4165-60-0	Nitrobenzene-d5	67%		30-130%
321-60-8	2-Fluorobiphenyl	64%		30-130%
1718-51-0	Terphenyl-d14	98%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

(a) Outside control limits. Associated target analytes are non-detect.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P56-ROX-012214		
Lab Sample ID:	MC27828-1	**Date Sampled:**	01/22/14
Matrix:	AQ - Ground Water	**Date Received:**	01/23/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R36831.D	1	01/29/14	KR	01/28/14	OP36653	MSR1358
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.55	0.10	0.071	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.051	ug/l	
120-12-7	Anthracene	0.13	0.10	0.095	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.052	0.020	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.030	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.052	0.033	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.028	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.040	ug/l	
218-01-9	Chrysene	ND	0.10	0.025	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.033	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.042	ug/l	
86-73-7	Fluorene	0.35	0.10	0.10	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.032	ug/l	
90-12-0	1-Methylnaphthalene	19.3	0.21	0.051	ug/l	
91-57-6	2-Methylnaphthalene	22.8	0.21	0.076	ug/l	
85-01-8	Phenanthrene	1.2	0.052	0.013	ug/l	
129-00-0	Pyrene	ND	0.10	0.040	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	84%		30-130%
321-60-8	2-Fluorobiphenyl	64%		30-130%
1718-51-0	Terphenyl-d14	86%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P56-ROX-012214		
Lab Sample ID:	MC27828-1	**Date Sampled:**	01/22/14
Matrix:	AQ - Ground Water	**Date Received:**	01/23/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB54177.D	1	01/29/14	CZ	01/27/14	OP36674	GBB3162
Run #2							

	Initial Volume	Final Volume
Run #1	36.0 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0053	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	85%		36-173%
460-00-4	Bromofluorobenzene (S)	69%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-012214-HCL		
Lab Sample ID:	MC27828-2	**Date Sampled:**	01/22/14
Matrix:	AQ - Ground Water	**Date Received:**	01/23/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V27321.D	1	01/24/14	AMY	n/a	n/a	MSV1031
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-012214-HCL		
Lab Sample ID:	MC27828-2	**Date Sampled:**	01/22/14
Matrix:	AQ - Ground Water	**Date Received:**	01/23/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
123-91-1	1,4-Dioxane	ND	25	16	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.70	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-012214-HCL		
Lab Sample ID:	MC27828-2	**Date Sampled:**	01/22/14
Matrix:	AQ - Ground Water	**Date Received:**	01/23/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		70-130%
2037-26-5	Toluene-D8	99%		70-130%
460-00-4	4-Bromofluorobenzene	105%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-012214-ST		
Lab Sample ID:	MC27828-3	**Date Sampled:**	01/22/14
Matrix:	AQ - Ground Water	**Date Received:**	01/23/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB54179.D	1	01/29/14	CZ	01/27/14	OP36674	GBB3162
Run #2							

	Initial Volume	Final Volume
Run #1	35.8 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0053	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	84%		36-173%
460-00-4	Bromofluorobenzene (S)	72%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

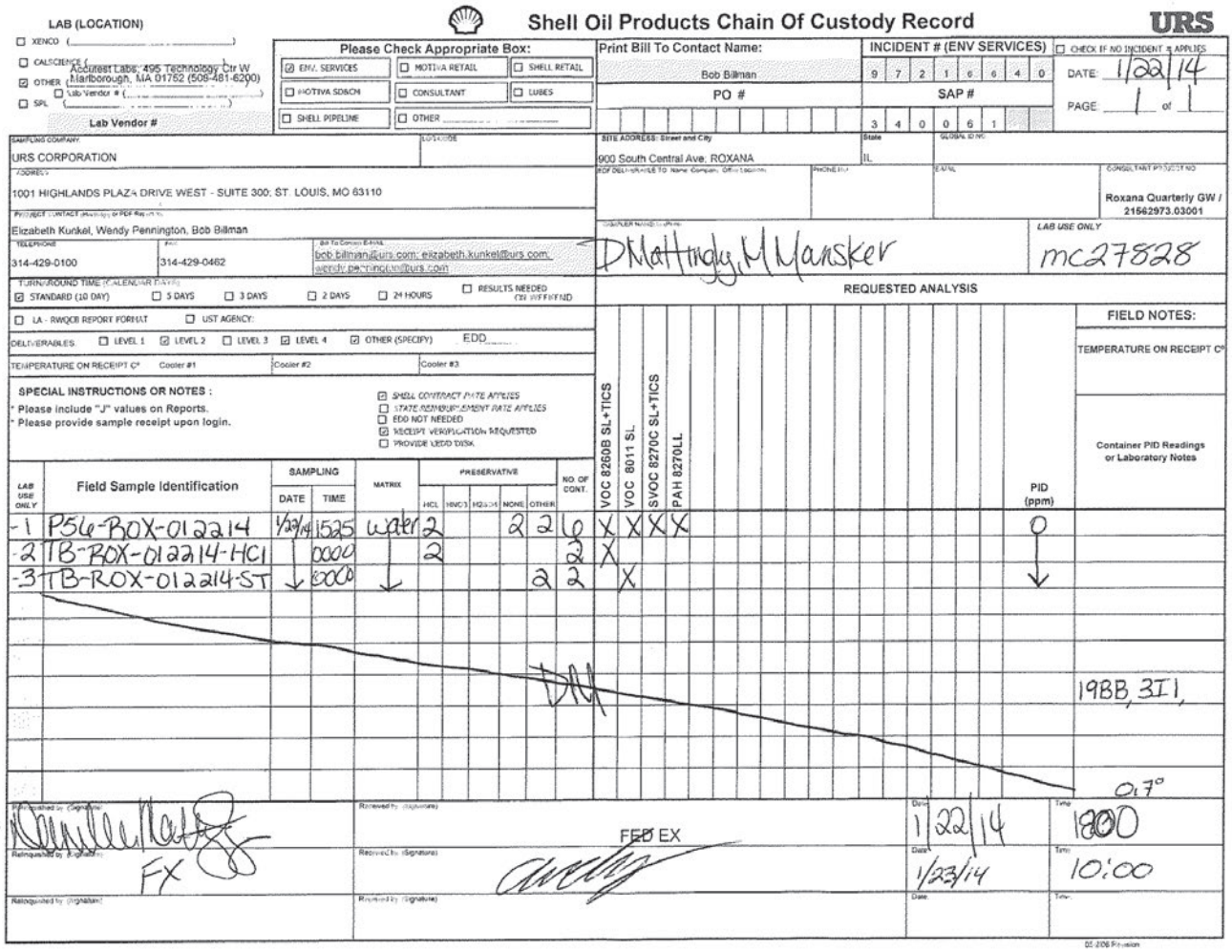
Includes the following where applicable:

- Chain of Custody
- REPROC Form: Reprocessed/Corrected Data
- Sample Tracking Chronicle
- Internal Chain of Custody

LAB (LOCATION)

☐ XENCO (_____)
☐ CALSCIENCE (_____)
☑ OTHER (Accutest Labs; 495 Technology Ctr W Marlborough, MA 01752 (508-481-6200)
☐ Lab Vendor # (_____)
☐ SPL (_____)

Lab Vendor #



Shell Oil Products Chain Of Custody Record

URS

Please Check Appropriate Box:

☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CH ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER _____

Print Bill To Contact Name: Bob Billman

PO #

INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0

SAP #: 3 4 0 0 6 1

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 1/22/14

PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION

LOGGED BY:

SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA

State: IL

GLOBAL ID NO:

ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110

PROJECT CONTACT (Hardcopy or PDF Report to): Elizabeth Kunkel, Wendy Pennington, Bob Billman

TELEPHONE: 314-429-0100

FAX: 314-429-0462

Bill To Contact E-MAIL: bob.billman@urs.com; elizabeth.kunkel@urs.com; wendy.pennington@urs.com

PDF DELIVERABLE TO: Name, Company, Office Location

PHONE NO:

E-MAIL:

CONSULTANT PROJECT NO: Roxana Quarterly GW / 21562973.03001

SAMPLER NAME(S) (PRINT): D Mattingly, M Mansker

LAB USE ONLY: mc27828

TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (10 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☑ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☑ OTHER (SPECIFY) EDD

TEMPERATURE ON RECEIPT C°: Cooler #1 Cooler #2 Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :
* Please include "J" values on Reports.
* Please provide sample receipt upon login.

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8260B SL+TICS	VOC 8011 SL	SVOC 8270C SL+TICS	PAH 8270LL	PID (ppm)	Container PID Readings or Laboratory Notes
-1	P56-ROX-012214	1/22/14	1525	water	2			2	2	6	X	X	X	X	0	
-2	TB-ROX-012214-HCl	↓	0000	↓	2					2	X				↓	
-3	TB-ROX-012214-ST	↓	0000	↓					2	2		X			↓	

DM

19BB, 3I1,

0.7°

Relinquished by (Signature)	Received by (Signature)	Date	Time
[signature]	FED EX	1/22/14	1800
FX	[signature]	1/23/14	10:00

05-2106 Revision

MC27828: Chain of Custody
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SGS ACCUTEST MC27828

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC27828 **Client:** URS **Immediate Client Services Action Required:** No

Date / Time Received: 1/23/2014 **Delivery Method:** **Client Service Action Required at Login:** No

Project: 900 SOUTH CENTRAL **No. Coolers:** 1 **Airbill #'s:**

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Infared gun		
3. Cooler media:	Ice (bag)		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

Marlborough, MA
www/accutest.com

5.1

5

MC27828: Chain of Custody
Page 2 of 2

Initial Calibration Summary

Job Number: MC27828 **Sample:** MSV1019-ICC1019
Account: SHELLWIC Shell Oil **Lab FileID:** V26938.D
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Response Factor Report MSV

Method : O:\msv\1\methods\v140107wx.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Calibration Files
0.25=v26932.d 0.5 =v26933.d 1 =v26934.d 2 =v26935.d
5 =v26936.d 10 =v26937.d 50 =v26938.d 100 =v26939.d
200 =v26940.d 400 =v26942.d = =

Compound

	0.25	0.5	1	2	5	10	50	100	200	400	Avg	%RSD
1) I tert butyl alcohol-d9 ----------ISTD----------												
2) Ethanol				0.166	0.141	0.140	0.070	0.095	0.070	0.077	0.108	36.81

---- Linear regression ---- Coefficient = 0.9924
Response Ratio = 0.07206 + 0.07518 *A

3) I pentafluorobenzene ----------ISTD----------												
4) chloroethane				0.708	0.546	0.470	0.438	0.407	0.399	0.368	0.311	0.456	27.04

---- Linear regression ---- Coefficient = 0.9911
Response Ratio = 0.00673 + 0.37855 *A

(#) = Out of Range ### Number of calibration levels exceeded format ###

v140107wx.m Mon Oct 12 12:04:54 2015

Initial Calibration Verification

Job Number: MC27828 **Sample:** MSV1019-ICV1019
Account: SHELLWIC Shell Oil **Lab FileID:** V26944.D
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Evaluate Continuing Calibration Report

Data File : O:\msv\1\databackup\v140107\v26944.d Vial: 22
Acq On : 7 Jan 2014 7:05 pm Operator: amym
Sample : icv1019-50 Inst : MSV
Misc : MS30921,MSV1019,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : O:\msv\1\methods\v140107wx.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Oct 12 12:03:49 2015
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	tert butyl alcohol-d9	1.000	1.000	0.0	110	-0.01	3.51
		Amount	Calc.	%Drift			
2 p	Ethanol	5000.000	6281.655	-25.6#	160	0.01	2.50
		AvgRF	CCRF	%Dev			
3 I	pentafluorobenzene	1.000	1.000	0.0	113	0.00	6.55
		Amount	Calc.	%Drift			
4 p	chloroethane	50.000	55.636	-11.3	119	0.00	2.15

(#) = Out of Range SPCC's out = 0 CCC's out = 0
v26938.d v140107wx.m Mon Oct 12 12:05:26 2015

Continuing Calibration Summary

Job Number: MC27828 **Sample:** MSV1031-CC1019
Account: SHELLWIC Shell Oil **Lab FileID:** V27313.D
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Evaluate Continuing Calibration Report

Data File : O:\msv\1\databackup\v140124\v27313.d Vial: 2
Acq On : 24 Jan 2014 8:49 am Operator: amym
Sample : cc1019-50 Inst : MSV
Misc : MS31017,MSV1031,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : O:\msv\1\methods\v140107wx.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Oct 12 12:03:49 2015
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	tert butyl alcohol-d9	1.000	1.000	0.0	74	-0.02	3.50
		Amount	Calc.	%Drift			
2 p	Ethanol	5000.000	9071.577	-81.4#	152	0.00	2.50
		AvgRF	CCRF	%Dev			
3 I	pentafluorobenzene	1.000	1.000	0.0	79	-0.02	6.54
		Amount	Calc.	%Drift			
4 p	chloroethane	50.000	53.451	-6.9	80	0.00	2.15

(#) = Out of Range SPCC's out = 0 CCC's out = 0
v26938.d v140107wx.m Tue Nov 17 22:53:36 2015

Continuing Calibration Summary

Job Number: MC27828 **Sample:** MSV1035-CC1019
Account: SHELLWIC Shell Oil **Lab FileID:** V27424.D
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Evaluate Continuing Calibration Report

Data File : O:\msv\1\databackup\v140129\v27424.d Vial: 2
Acq On : 29 Jan 2014 11:03 am Operator: amym
Sample : cc1019-50 Inst : MSV
Misc : MS31038,MSV1035,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : O:\msv\1\methods\v140107wx.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Oct 12 12:03:49 2015
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	tert butyl alcohol-d9	1.000	1.000	0.0	88	0.00	3.52
		Amount	Calc.	%Drift			
2 p	Ethanol	5000.000	7238.355	-44.8#	147	0.02	2.51
		AvgRF	CCRF	%Dev			
3 I	pentafluorobenzene	1.000	1.000	0.0	82	0.00	6.56
		Amount	Calc.	%Drift			
4 p	chloroethane	50.000	57.696	-15.4	89	0.00	2.16

(#) = Out of Range SPCC's out = 0 CCC's out = 0
v26938.d v140107wx.m Thu Nov 19 08:21:44 2015

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26932.d
Acq On : 7 Jan 2014 12:30 pm
Operator : amym
Sample : ic1019-0.25
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

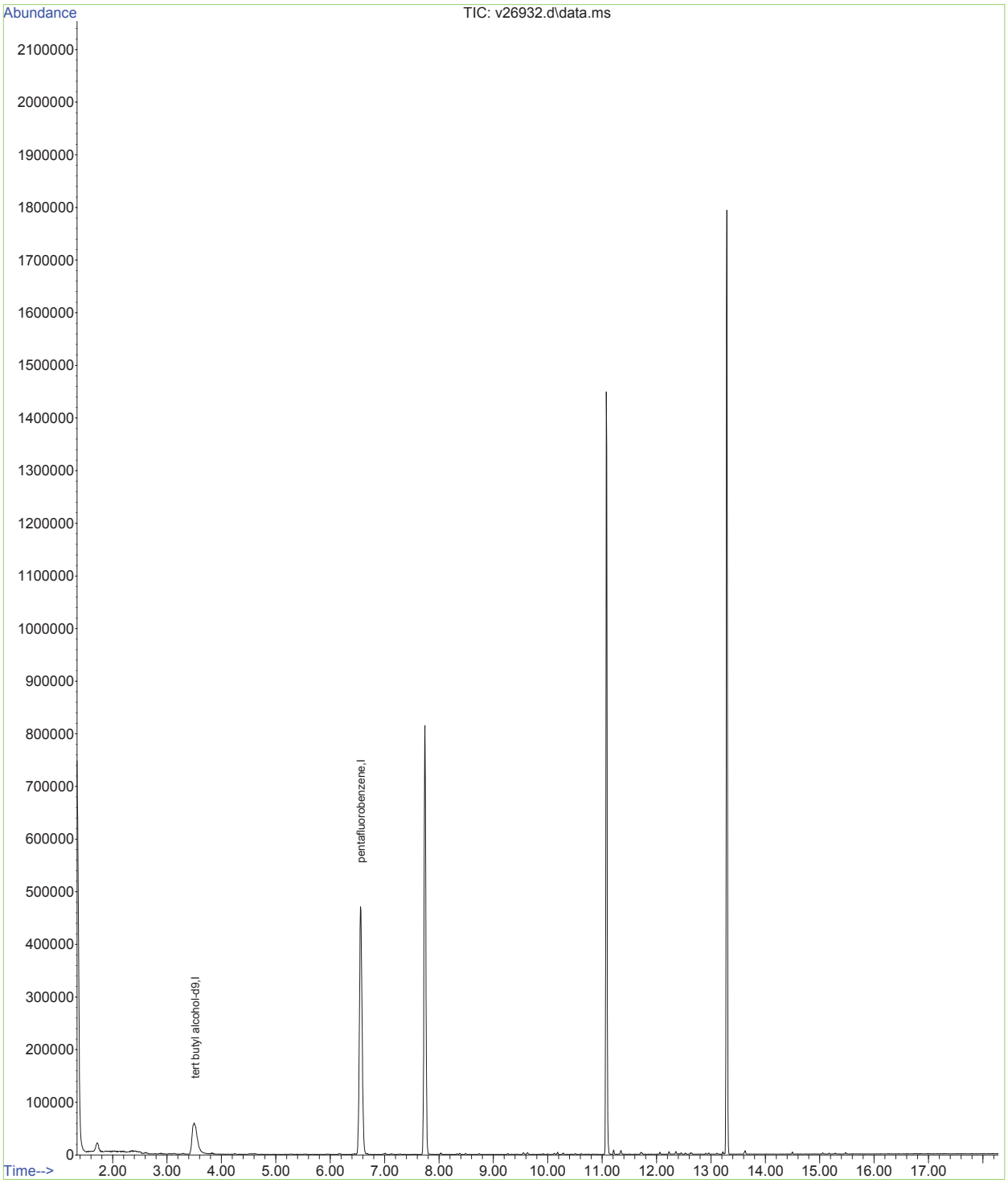
Quant Time: Oct 12 11:50:29 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.522	65	168440	500.00	ug/L	0.00
3) pentafluorobenzene	6.564	168	534929	50.00	ug/L	0.00
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msv\1\databackup\v140107\
Data File : v26932.d
Acq On : 7 Jan 2014 12:30 pm
Operator : amym
Sample : ic1019-0.25
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 12 11:50:29 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26933.d
Acq On : 7 Jan 2014 12:56 pm
Operator : amym
Sample : ic1019-0.5
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 12 11:50:59 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

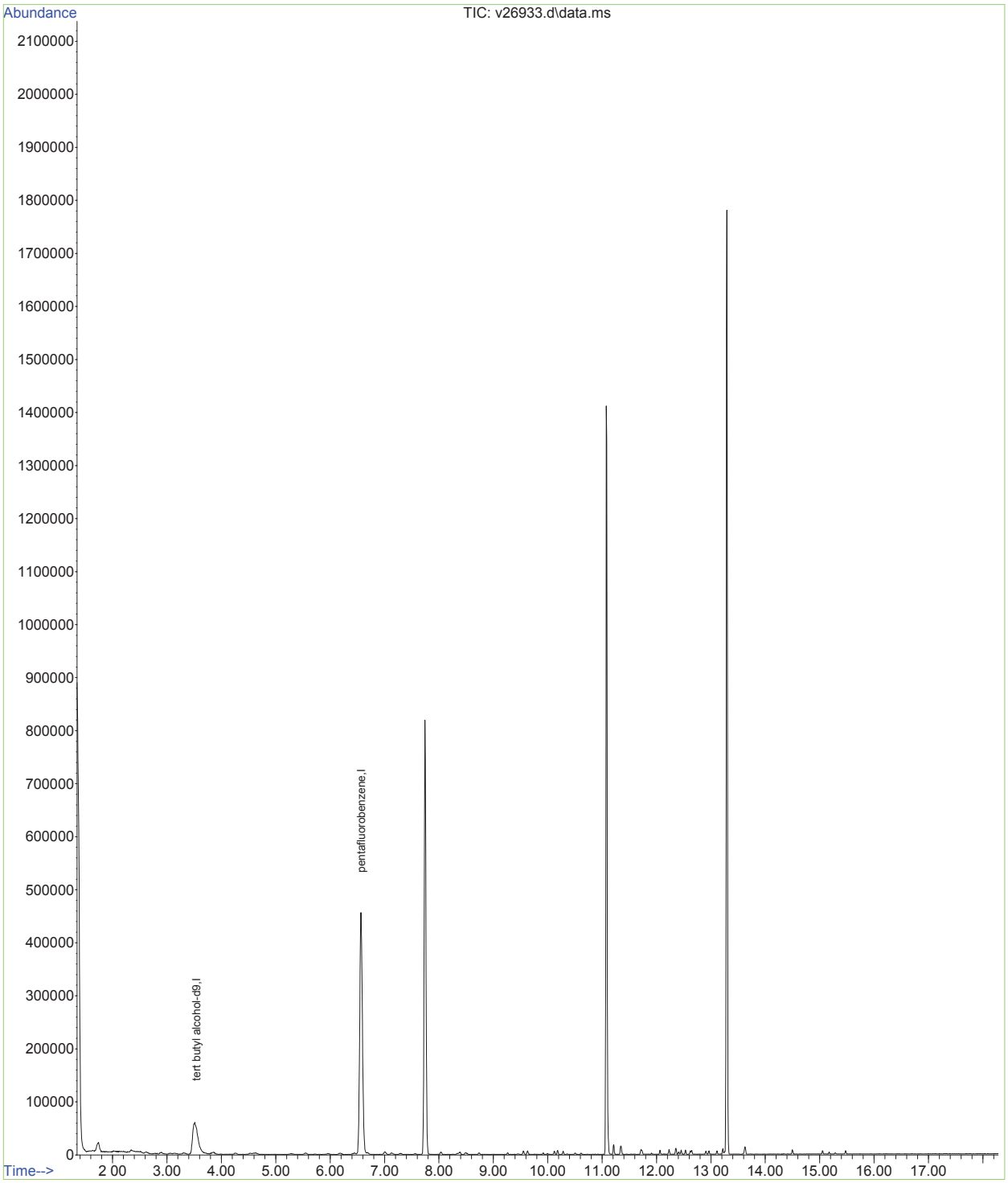
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.537	65	168993	500.00	ug/L	0.01
3) pentafluorobenzene	6.570	168	523768	50.00	ug/L	0.01
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST MC27828

Data Path : O:\msv\1\databackup\v140107\
Data File : v26933.d
Acq On : 7 Jan 2014 12:56 pm
Operator : amym
Sample : ic1019-0.5
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 12 11:50:59 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



SGS ACCUTEST MC27828

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26934.d
Acq On : 7 Jan 2014 1:22 pm
Operator : amym
Sample : ic1019-1
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

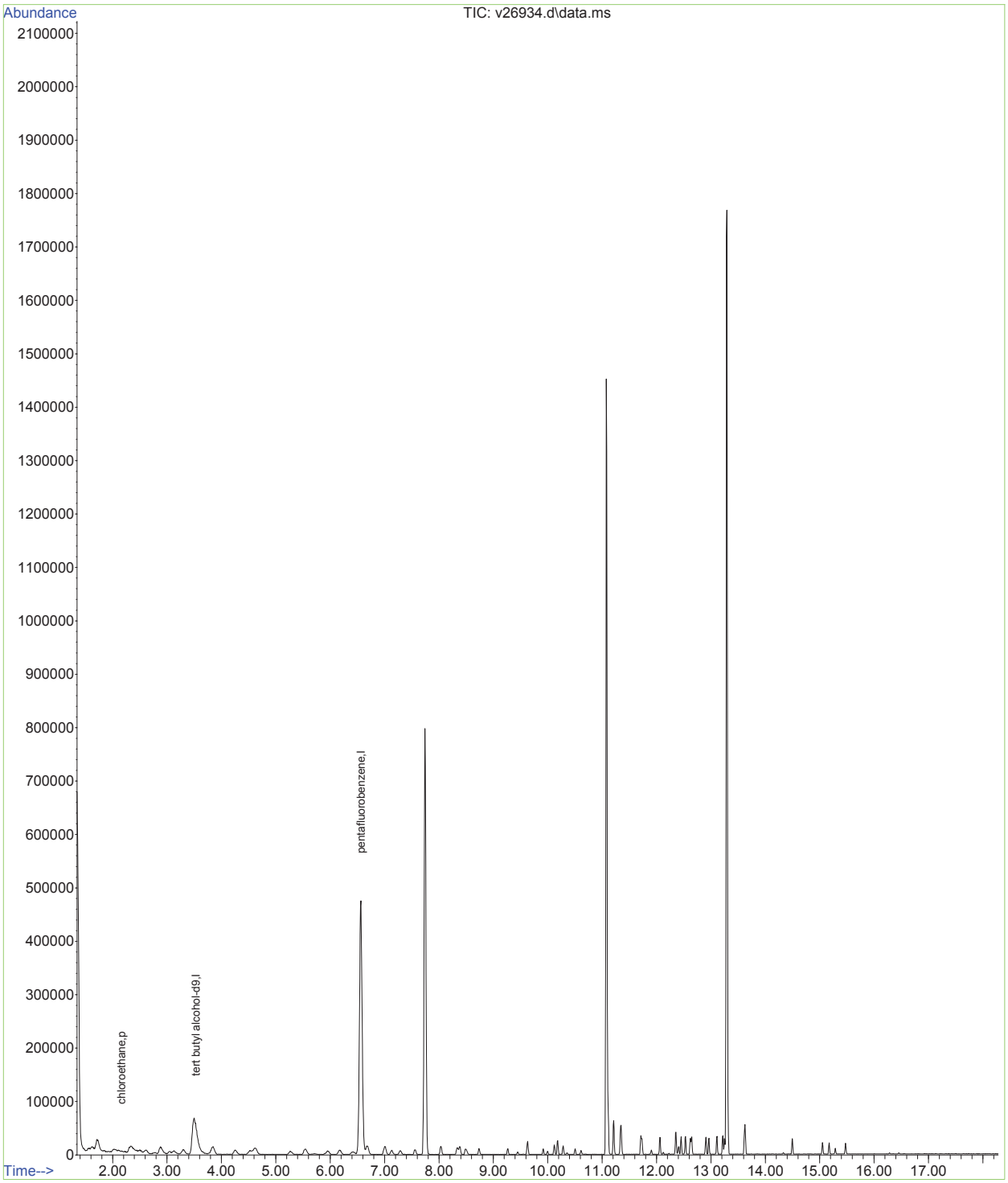
Quant Time: Oct 12 11:52:02 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.527	65	169438	500.00	ug/L	0.00
3) pentafluorobenzene	6.565	168	527887	50.00	ug/L	0.00
Target Compounds						Qvalue
4) chloroethane	2.159	64	7471m	1.74	ug/L	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

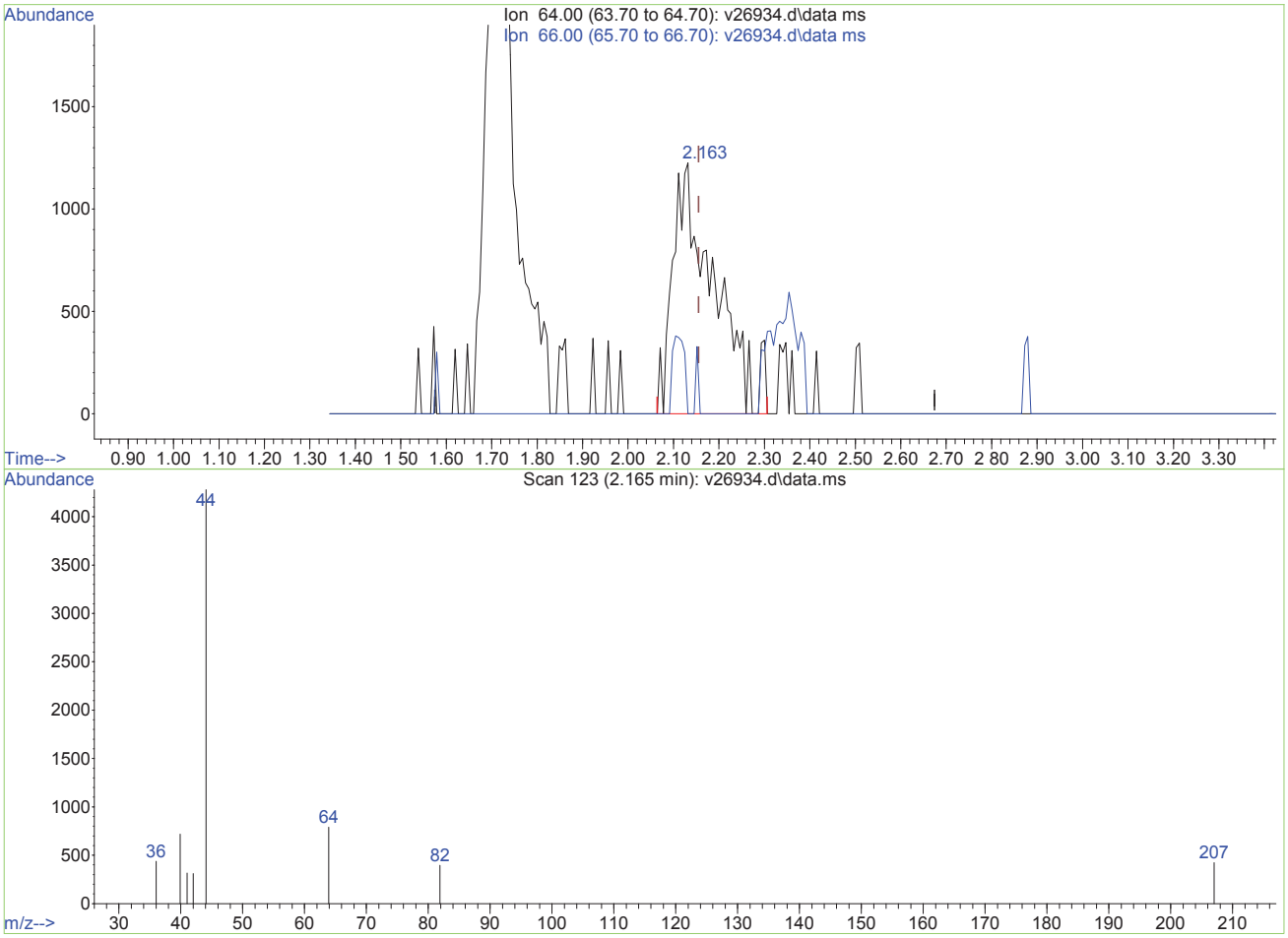
Data Path : O:\msv\1\databackup\v140107\
Data File : v26934.d
Acq On : 7 Jan 2014 1:22 pm
Operator : amym
Sample : ic1019-1
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 12 11:52:02 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Data Path : O:\msv\1\databackup\v140107\
Data File : v26934.d
Acq On : 7 Jan 2014 1:22 pm
Operator : amym
Sample : ic1019-1
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 12 11:49:53 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26934.d\data.ms

(4) chloroethane (p)

2.163min (+0.008) 1.81ug/L

response 7756

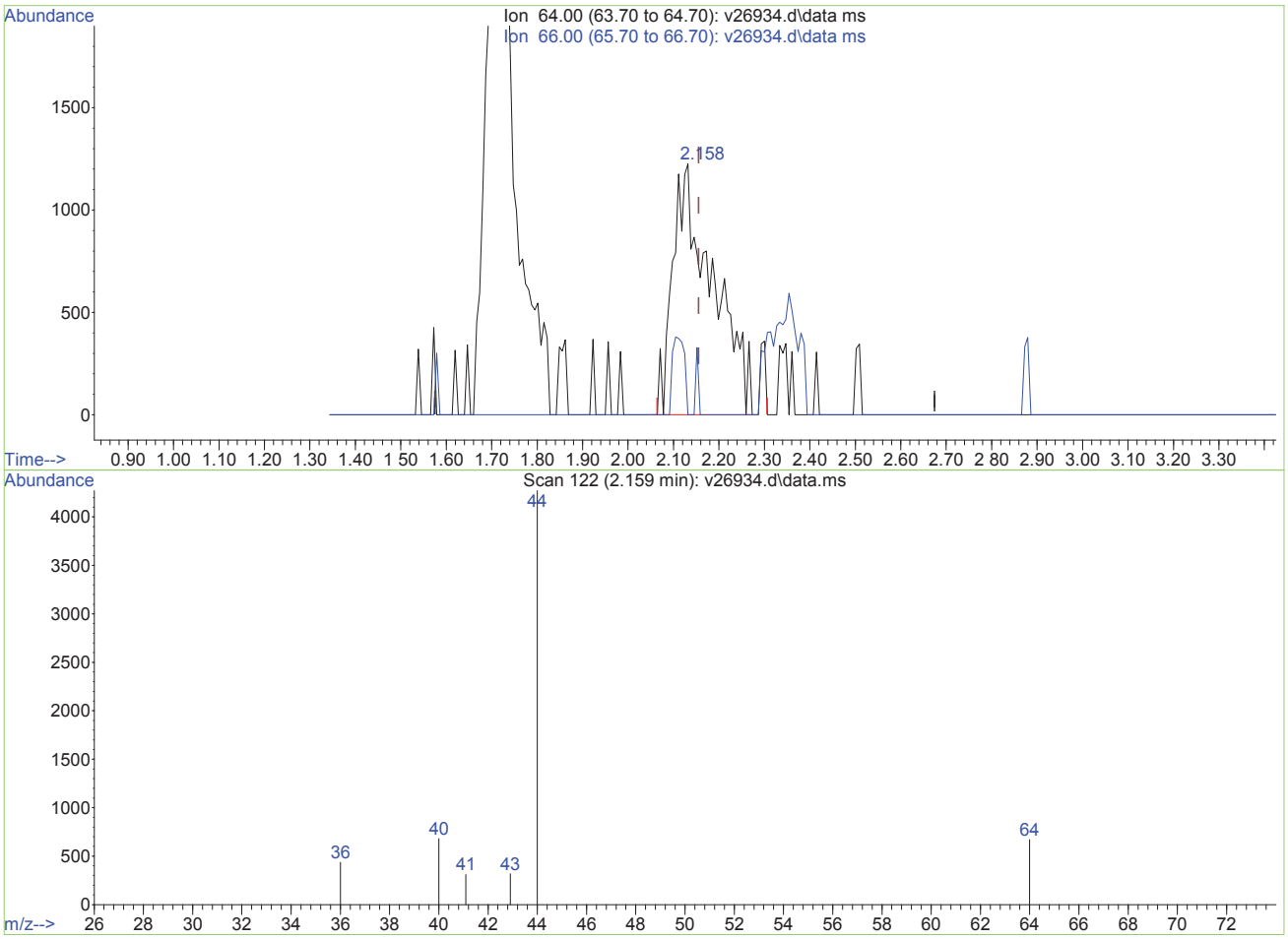
Ion	Exp%	Act%
64.00	100	100
66.00	34.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26934.D edits: chloroethane

Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26934.d
Acq On : 7 Jan 2014 1:22 pm
Operator : amym
Sample : ic1019-1
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 12 11:49:53 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26934.d\data.ms

(4) chloroethane (p)

2.159min (+0.003) 1.74ug/L m

response 7471

Ion	Exp%	Act%
64.00	100	100
66.00	34.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26934.D edits: chloroethane

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26935.d
Acq On : 7 Jan 2014 1:49 pm
Operator : amym
Sample : ic1019-2
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 12 11:52:51 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

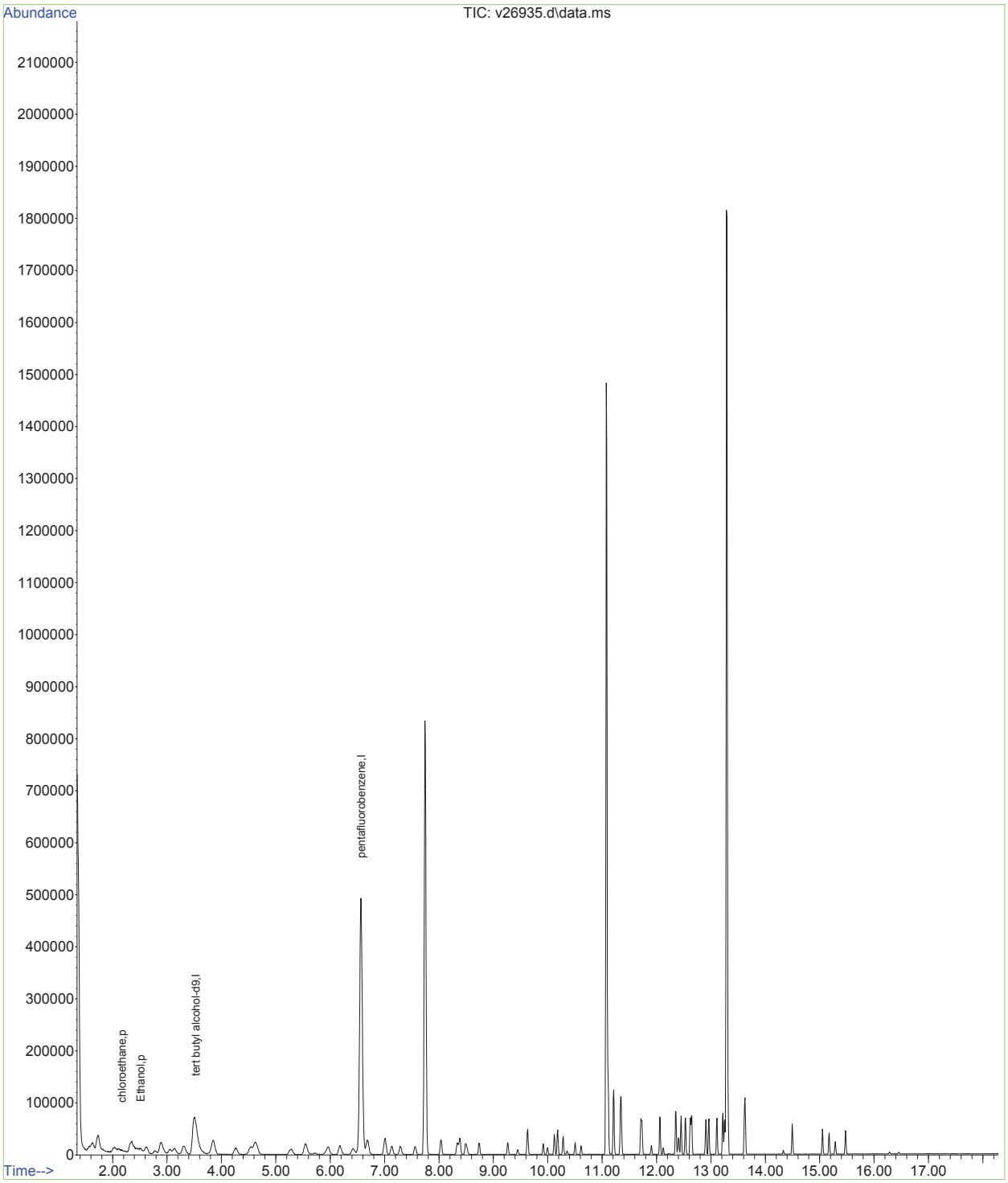
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.533	65	165100	500.00	ug/L	0.01
3) pentafluorobenzene	6.569	168	548060	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.516	45	10989m	474.44	ug/L	
4) chloroethane	2.170	64	11967	2.68	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST MC27828

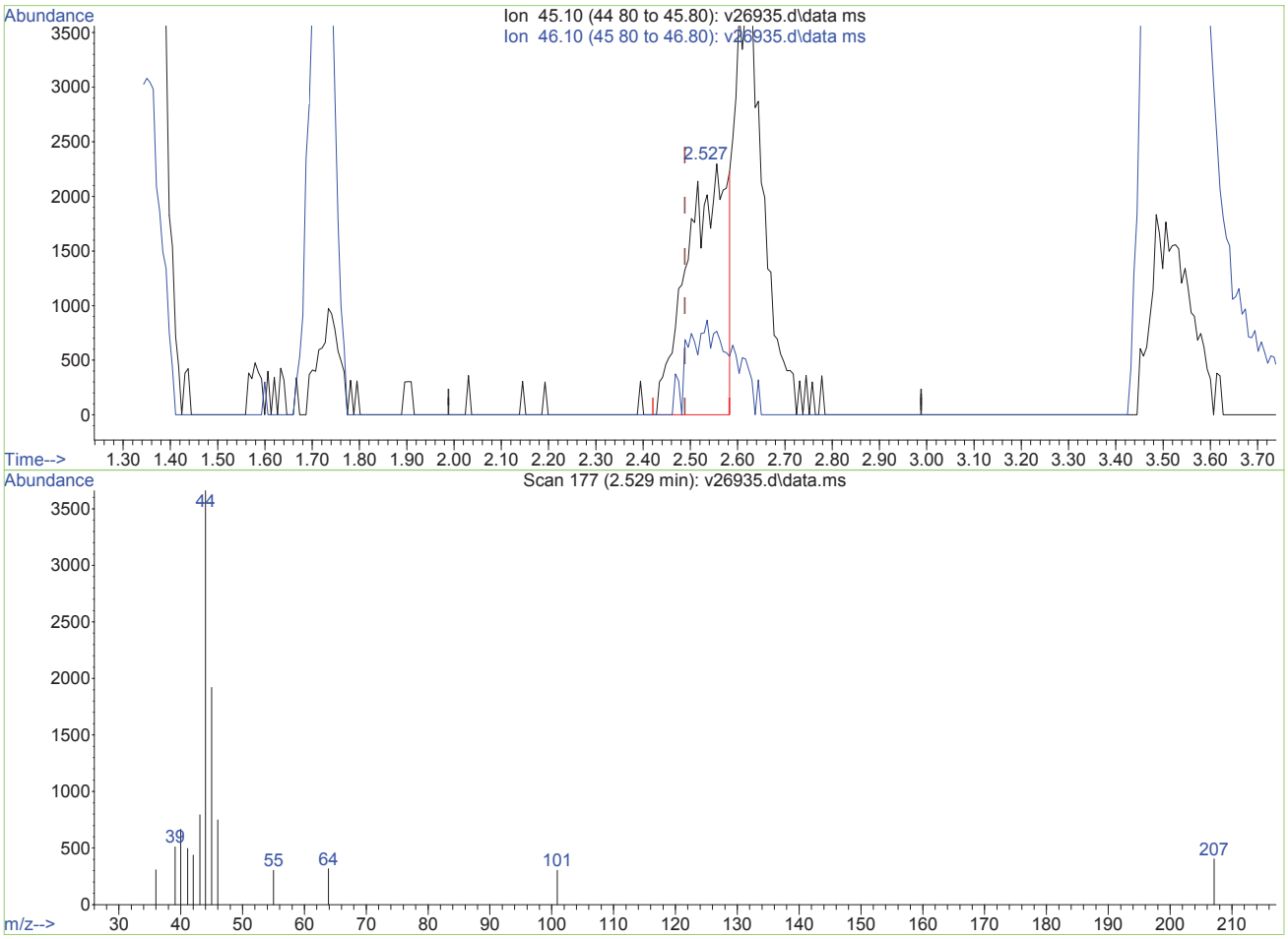
Data Path : O:\msv\1\databackup\v140107\
Data File : v26935.d
Acq On : 7 Jan 2014 1:49 pm
Operator : amym
Sample : ic1019-2
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 12 11:52:51 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Data Path : O:\msv\1\databackup\v140107\
Data File : v26935.d
Acq On : 7 Jan 2014 1:49 pm
Operator : amym
Sample : ic1019-2
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 12 11:49:55 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26935.d\data.ms

(2) Ethanol (p)

2.527min (+0.039) 585.36ug/L

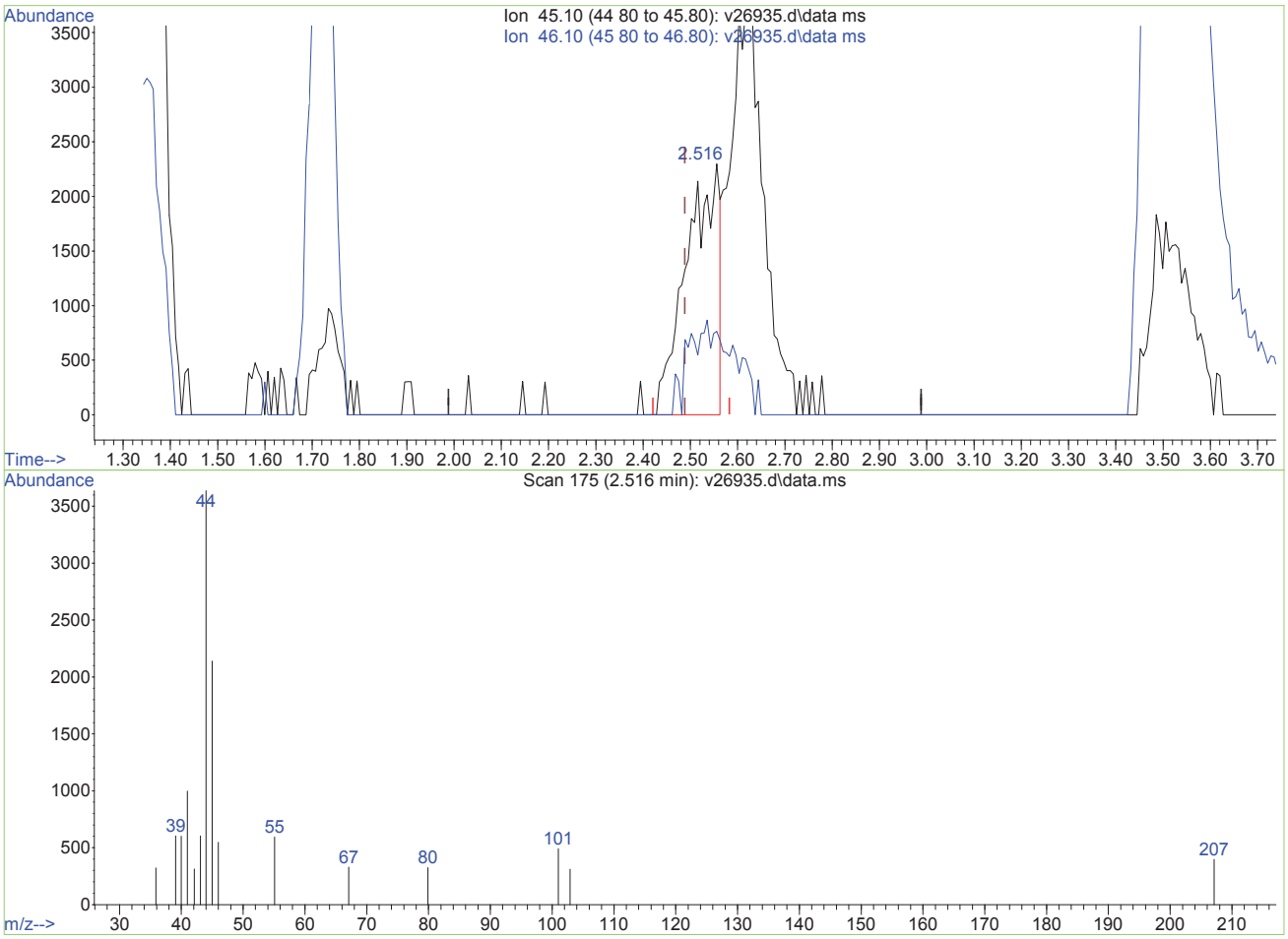
response 13558

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	43.04#
0.00	0.00	0.00
0.00	0.00	0.00

V26935.D edits: Ethanol

Data Path : O:\msv\1\databackup\v140107\
Data File : v26935.d
Acq On : 7 Jan 2014 1:49 pm
Operator : amym
Sample : ic1019-2
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 12 11:49:55 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26935.d\data.ms

(2) Ethanol (p)

2.516min (+0.027) 474.44ug/L m

response 10989

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	53.11#
0.00	0.00	0.00
0.00	0.00	0.00

V26935.D edits: Ethanol

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26936.d
Acq On : 7 Jan 2014 2:16 pm
Operator : amym
Sample : ic1019-5
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

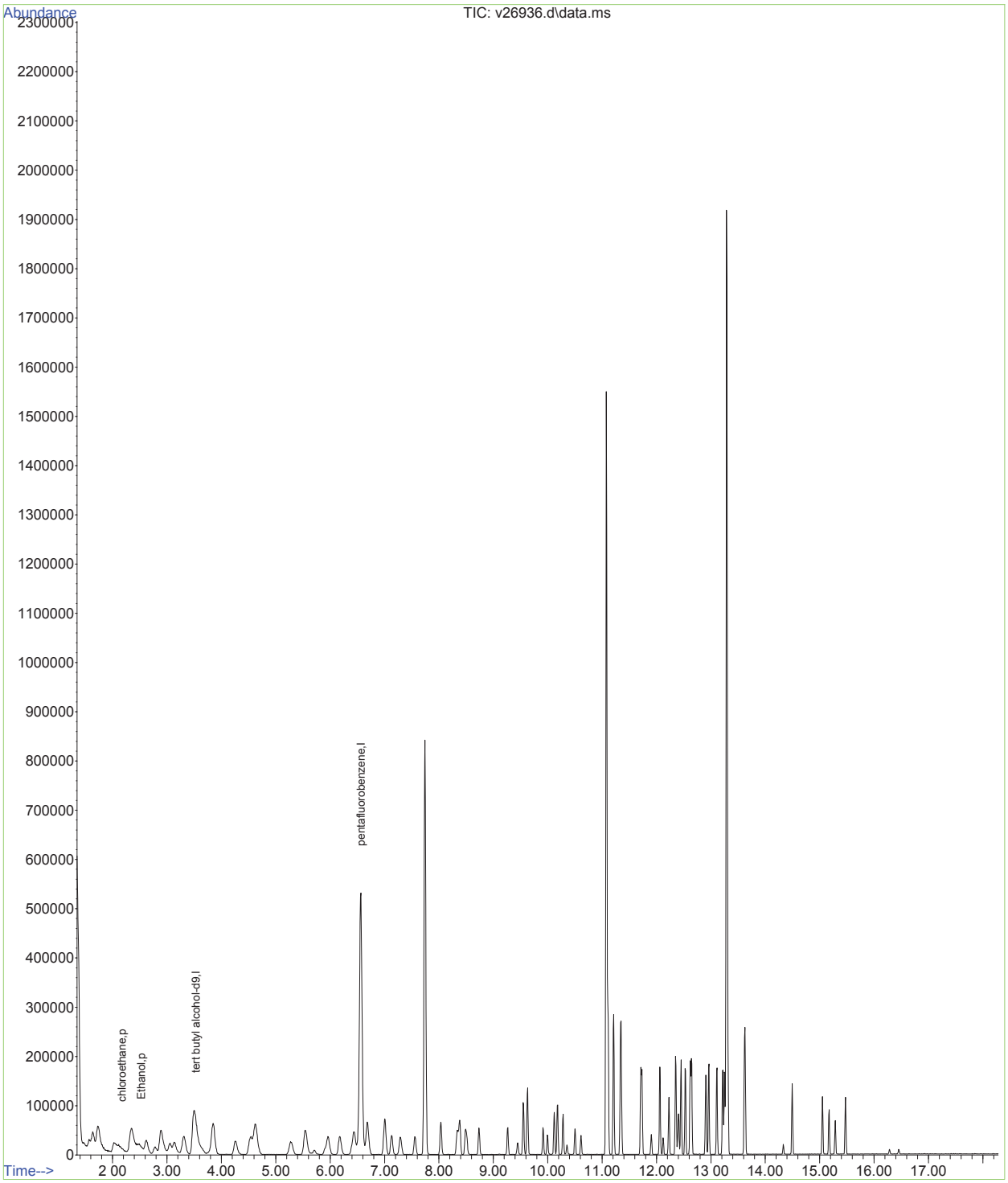
Quant Time: Oct 12 11:49:57 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.532	65	174193	500.00	ug/L	0.00
3) pentafluorobenzene	6.565	168	569450	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.523	45	24520	1003.38	ug/L	# 1
4) chloroethane	2.173	64	26754	5.77	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msv\1\databackup\v140107\
Data File : v26936.d
Acq On : 7 Jan 2014 2:16 pm
Operator : amym
Sample : ic1019-5
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 12 11:49:57 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26937.d
Acq On : 7 Jan 2014 2:42 pm
Operator : amym
Sample : ic1019-10
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

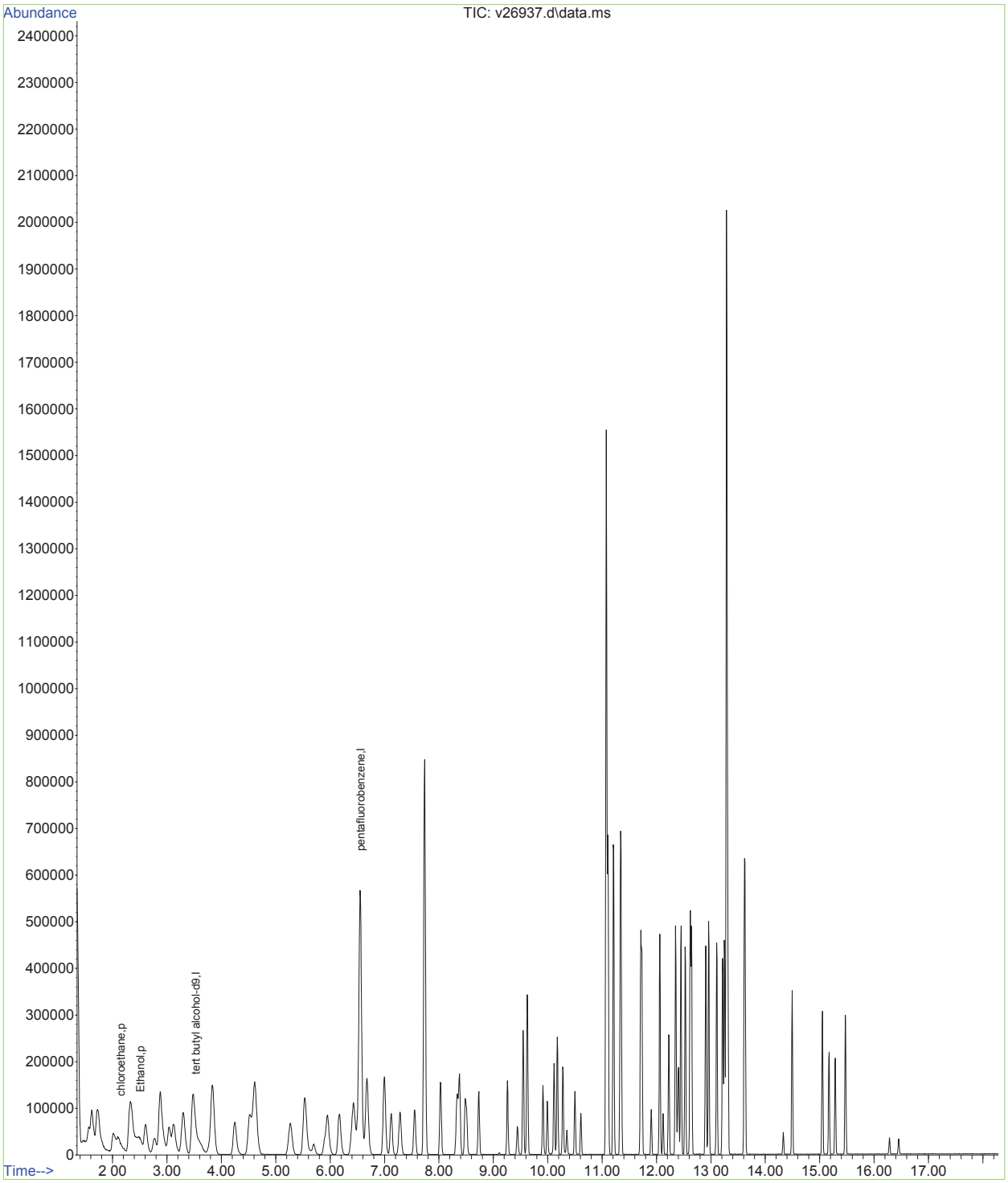
Quant Time: Oct 12 11:49:59 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.523	65	172384	500.00	ug/L	0.00
3) pentafluorobenzene	6.556	168	597997	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.509	45	48113	1989.48	ug/L	# 1
4) chloroethane	2.155	64	52409	10.77	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msv\1\databackup\v140107\
Data File : v26937.d
Acq On : 7 Jan 2014 2:42 pm
Operator : amym
Sample : ic1019-10
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 12 11:49:59 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Data Path : O:\msv\1\databackup\v140107\
Data File : v26938.d
Acq On : 7 Jan 2014 3:08 pm
Operator : amym
Sample : icc1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

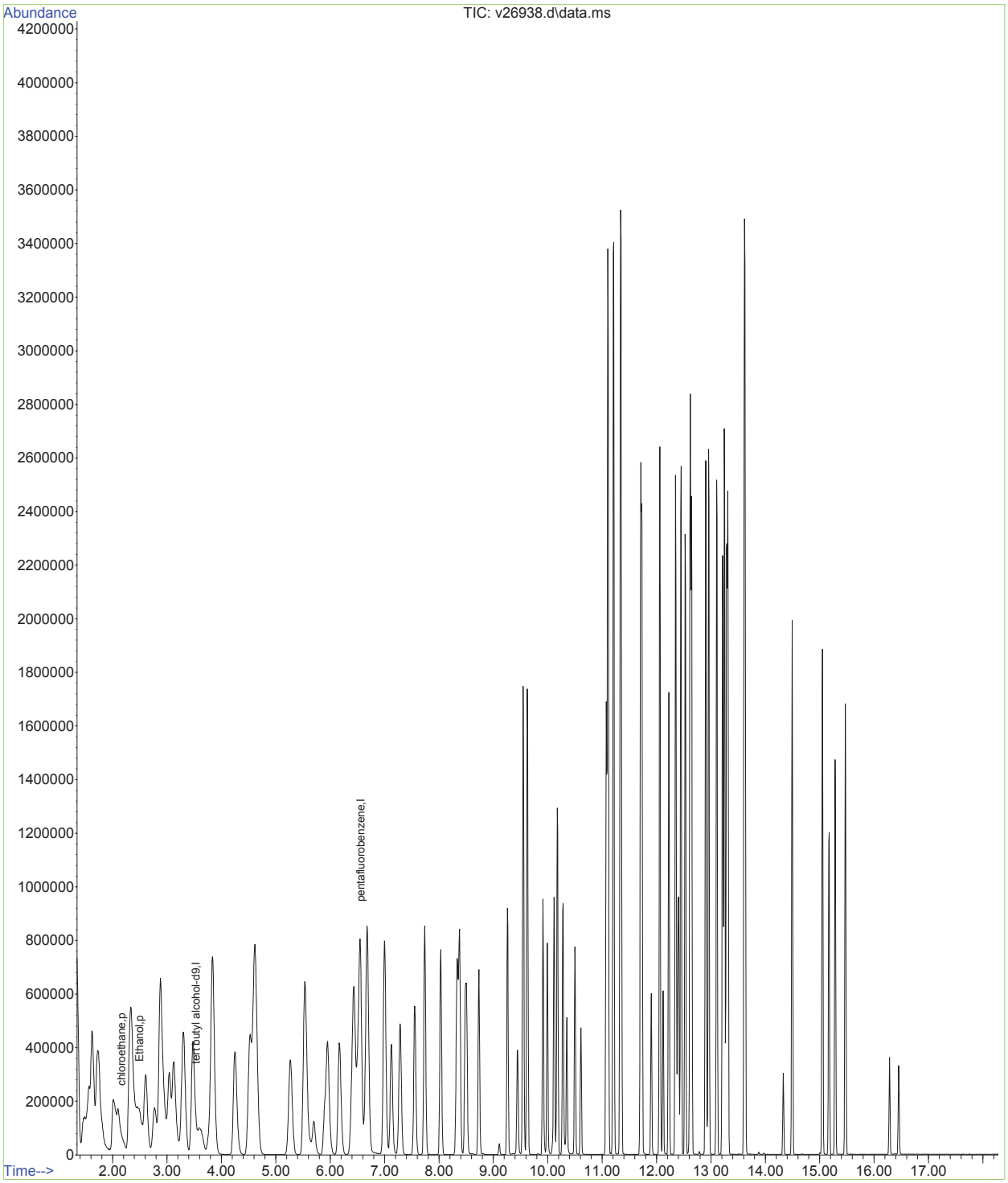
Quant Time: Oct 12 11:54:24 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.524	65	196490	500.00	ug/L	0.00
3) pentafluorobenzene	6.559	168	650576	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.489	45	137020m	4970.70	ug/L	
4) chloroethane	2.155	64	264750	50.00	ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msv\1\databackup\v140107\
Data File : v26938.d
Acq On : 7 Jan 2014 3:08 pm
Operator : amym
Sample : icc1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

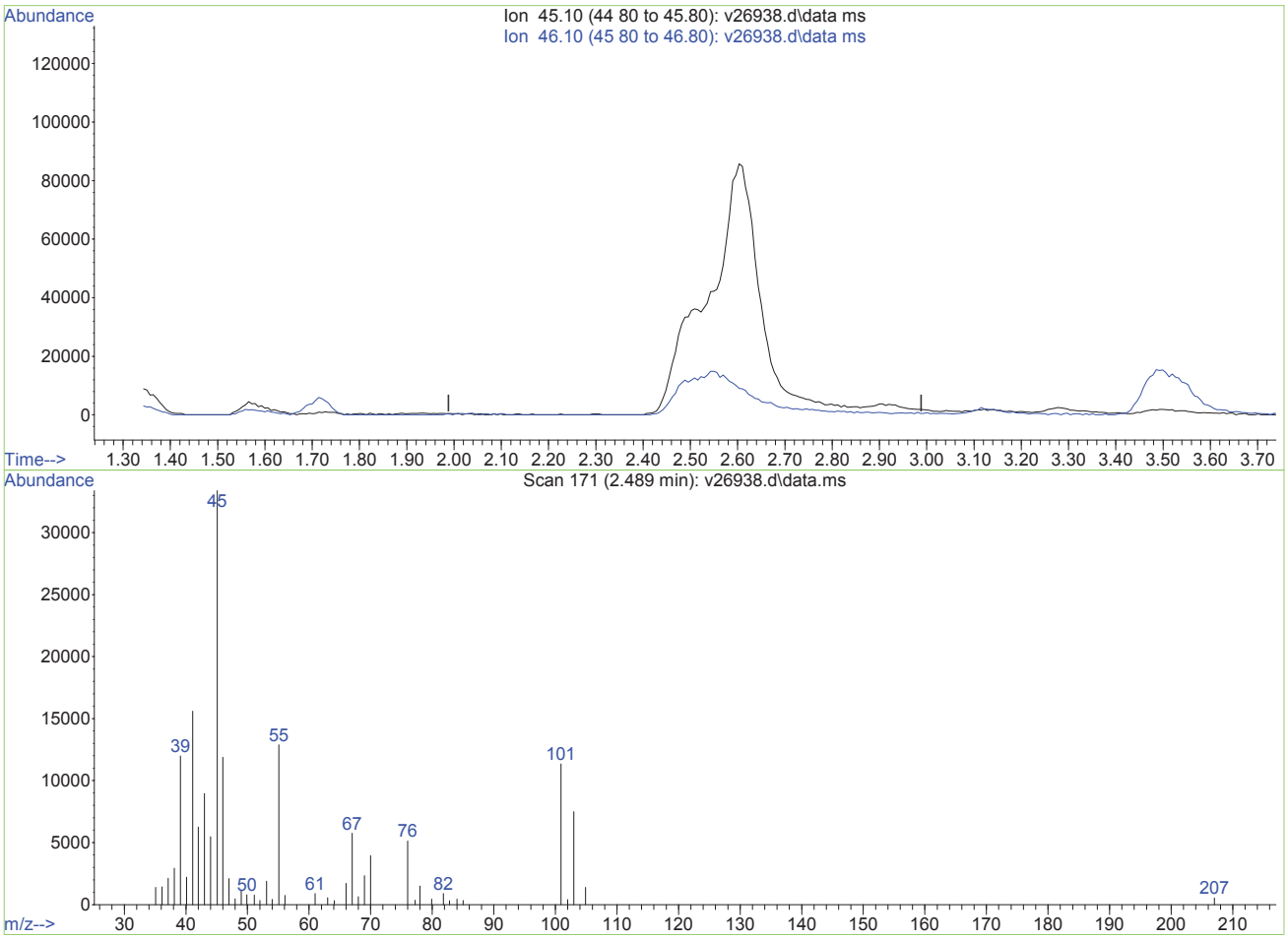
Quant Time: Oct 12 11:54:24 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26938.d
Acq On : 7 Jan 2014 3:08 pm
Operator : amym
Sample : icc1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 12 11:50:01 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26938.d\data.ms

(2) Ethanol (p)

2.489min (-2.489) 0.00ug/L

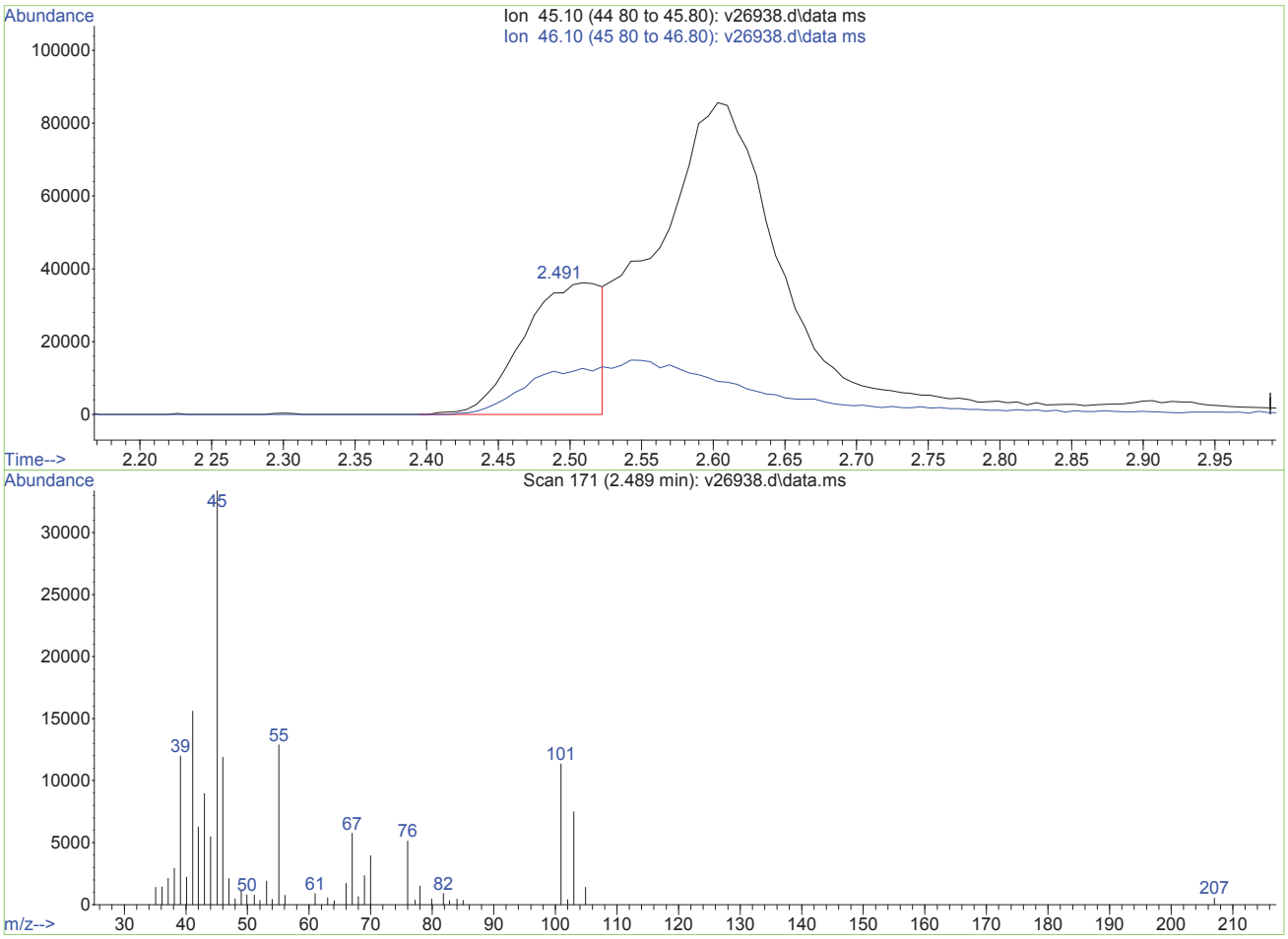
response 0

Ion	Exp%	Act%
45.10	100	0.00
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26938.D edits: Ethanol

Data Path : O:\msv\1\databackup\v140107\
Data File : v26938.d
Acq On : 7 Jan 2014 3:08 pm
Operator : amym
Sample : icc1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 12 11:50:01 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26938.d\data.ms

(2) Ethanol (p)

2.489min (0.000) 4970.70ug/L m

response 137020

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26938.D edits: Ethanol

SGS ACCUTEST MC27828

Data Path : O:\msv\1\databackup\v140107\
Data File : v26939.d
Acq On : 7 Jan 2014 3:35 pm
Operator : amym
Sample : ic1019-100
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

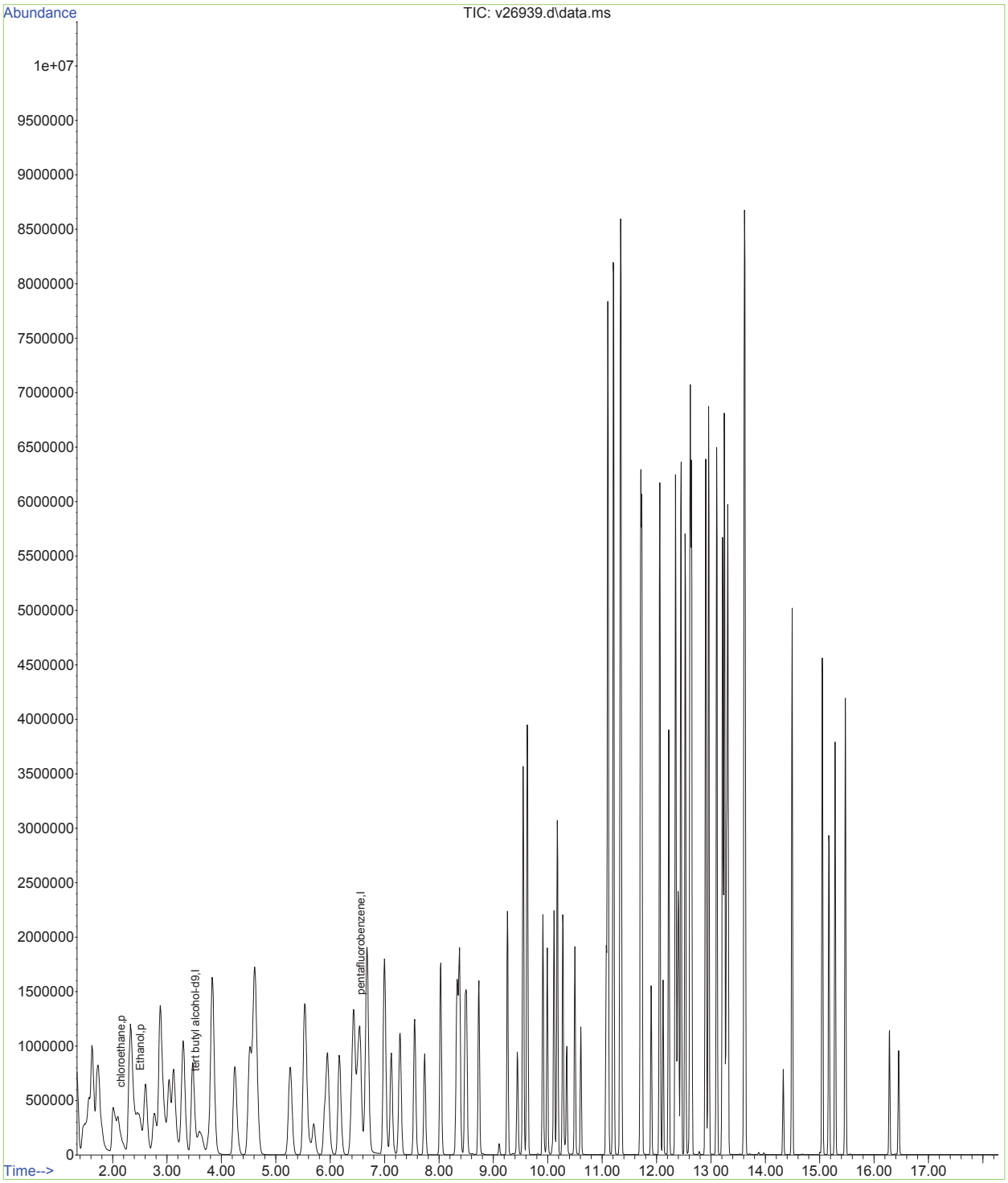
Quant Time: Oct 12 11:55:09 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.521	65	218199	500.00	ug/L	0.00
3) pentafluorobenzene	6.558	168	709327	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.502	45	415447m	13571.79	ug/L	
4) chloroethane	2.151	64	566729	98.17	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msv\1\databackup\v140107\
Data File : v26939.d
Acq On : 7 Jan 2014 3:35 pm
Operator : amym
Sample : ic1019-100
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

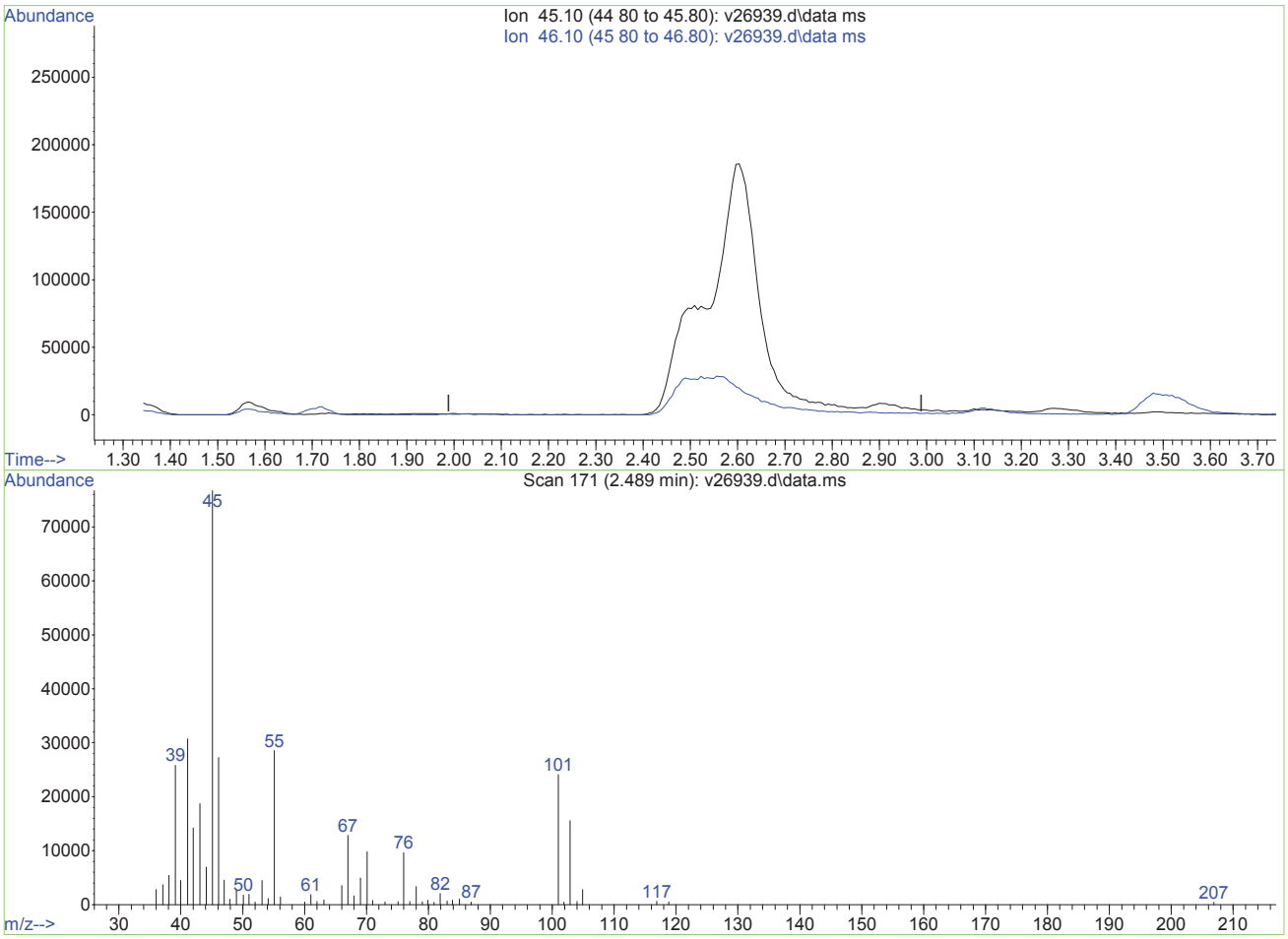
Quant Time: Oct 12 11:55:09 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26939.d
Acq On : 7 Jan 2014 3:35 pm
Operator : amym
Sample : ic1019-100
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 12 11:50:03 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26939.d\data.ms

(2) Ethanol (p)

2.489min (-2.489) 0.00ug/L

response 0

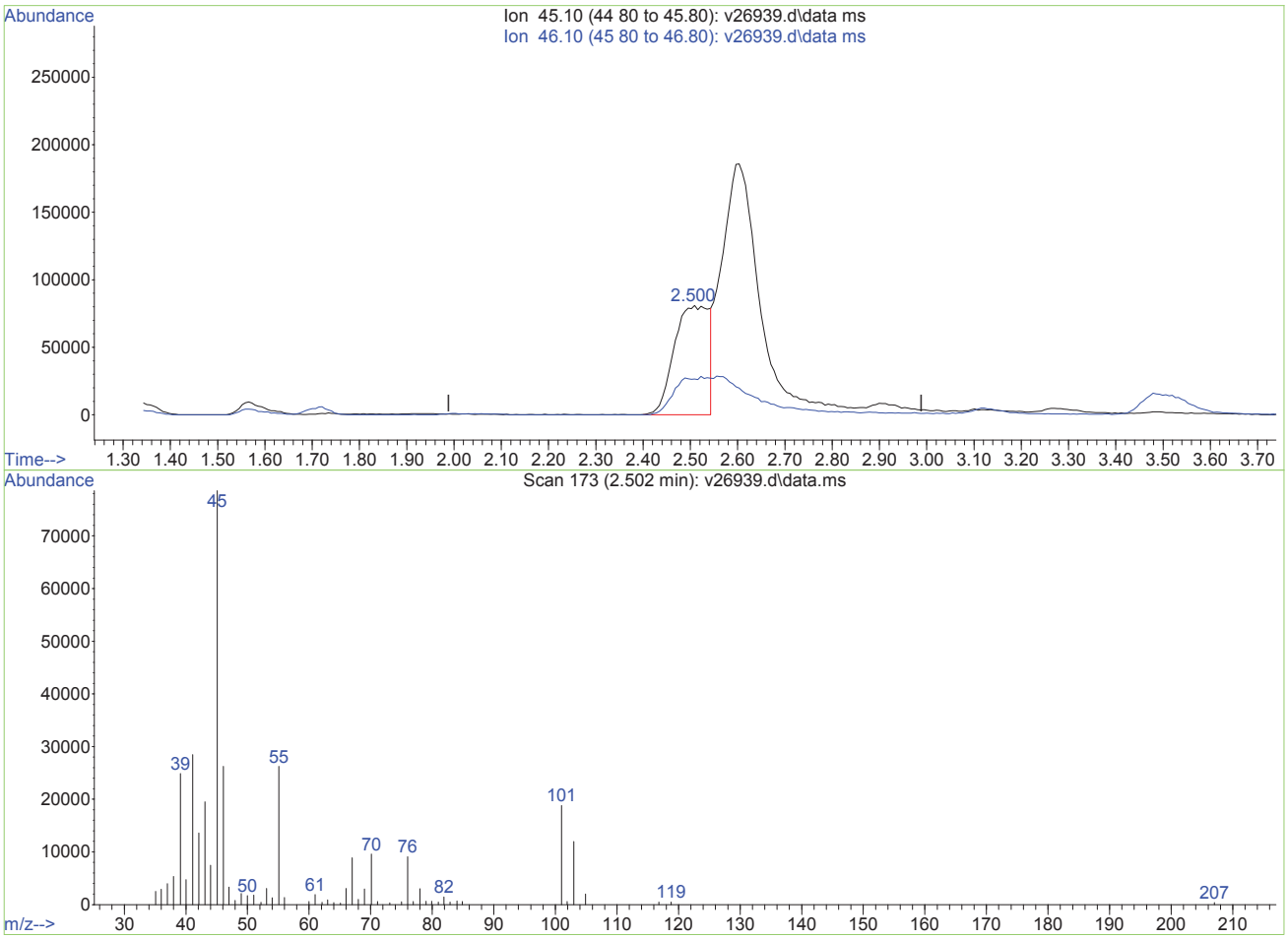
Ion	Exp%	Act%
45.10	100	0.00
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26939.D edits: Ethanol

SGS ACCUTEST MC27828

Data Path : O:\msv\1\databackup\v140107\
Data File : v26939.d
Acq On : 7 Jan 2014 3:35 pm
Operator : amym
Sample : ic1019-100
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 12 11:50:03 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26939.d\data.ms

(2) Ethanol (p)

2.502min (+0.013) 13571.79ug/L m

response 415447

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26939.D edits: Ethanol

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:56:38 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

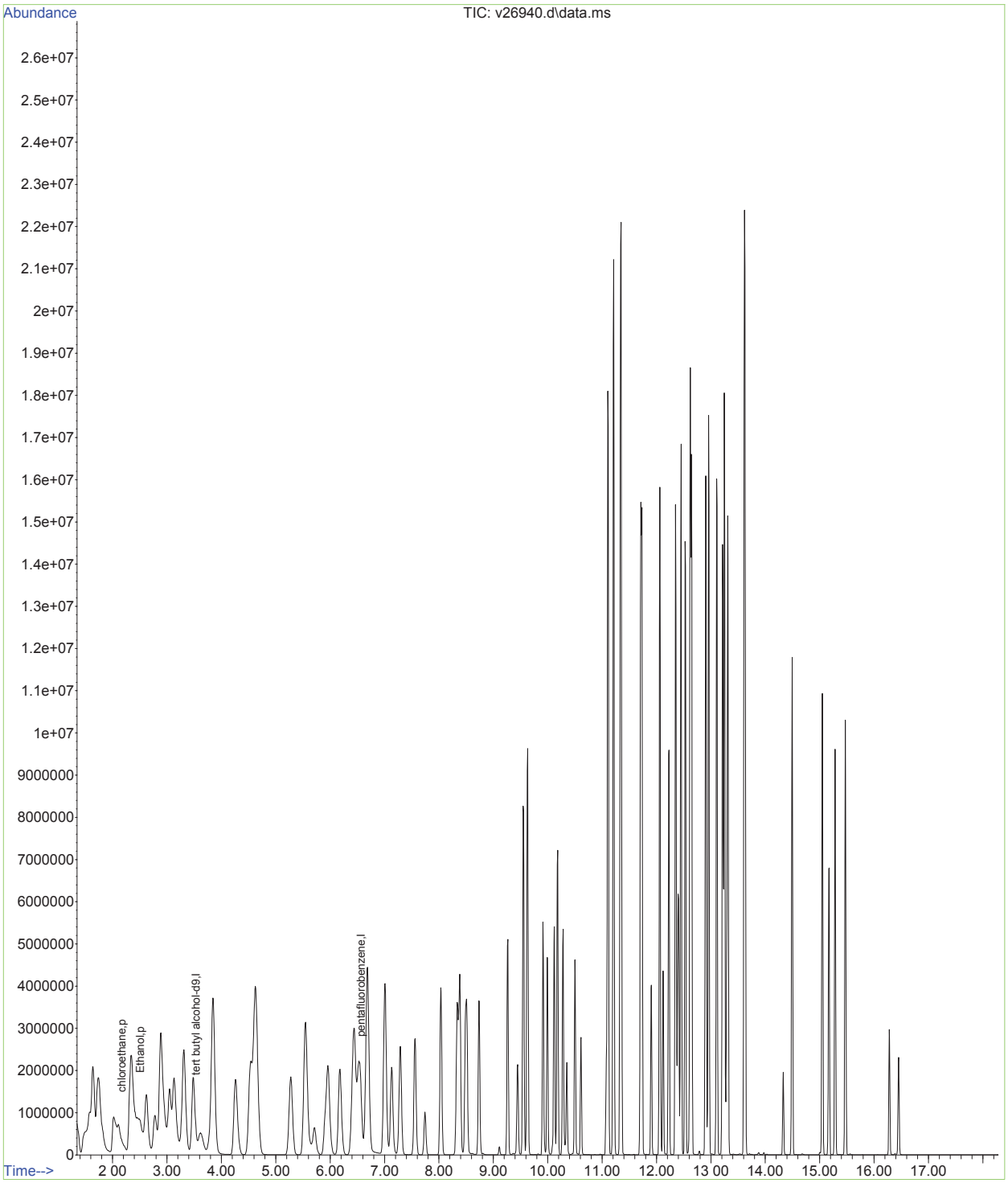
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) tert butyl alcohol-d9	3.526	65	248311m	500.00 ug/L	0.00
3) pentafluorobenzene	6.565	168	827373	50.00 ug/L	0.00
Target Compounds					Qvalue
2) Ethanol	2.502	45	690608m	19824.86 ug/L	
4) chloroethane	2.165	64	1217177m	180.75 ug/L	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

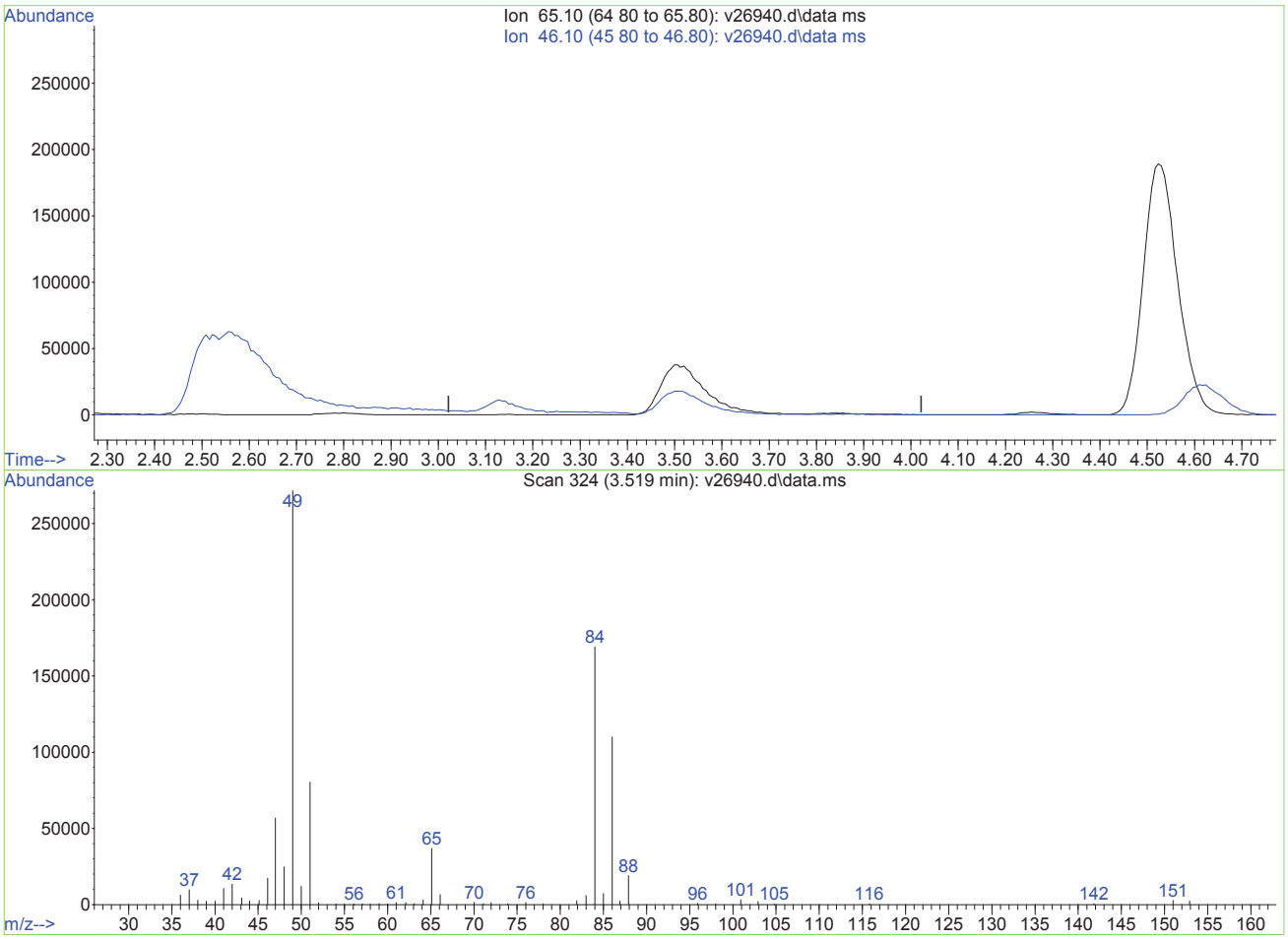
Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:56:38 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:50:05 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26940.d\data.ms

(1) tert butyl alcohol-d9 (I)

3.522min (-3.522) 0.00ug/L

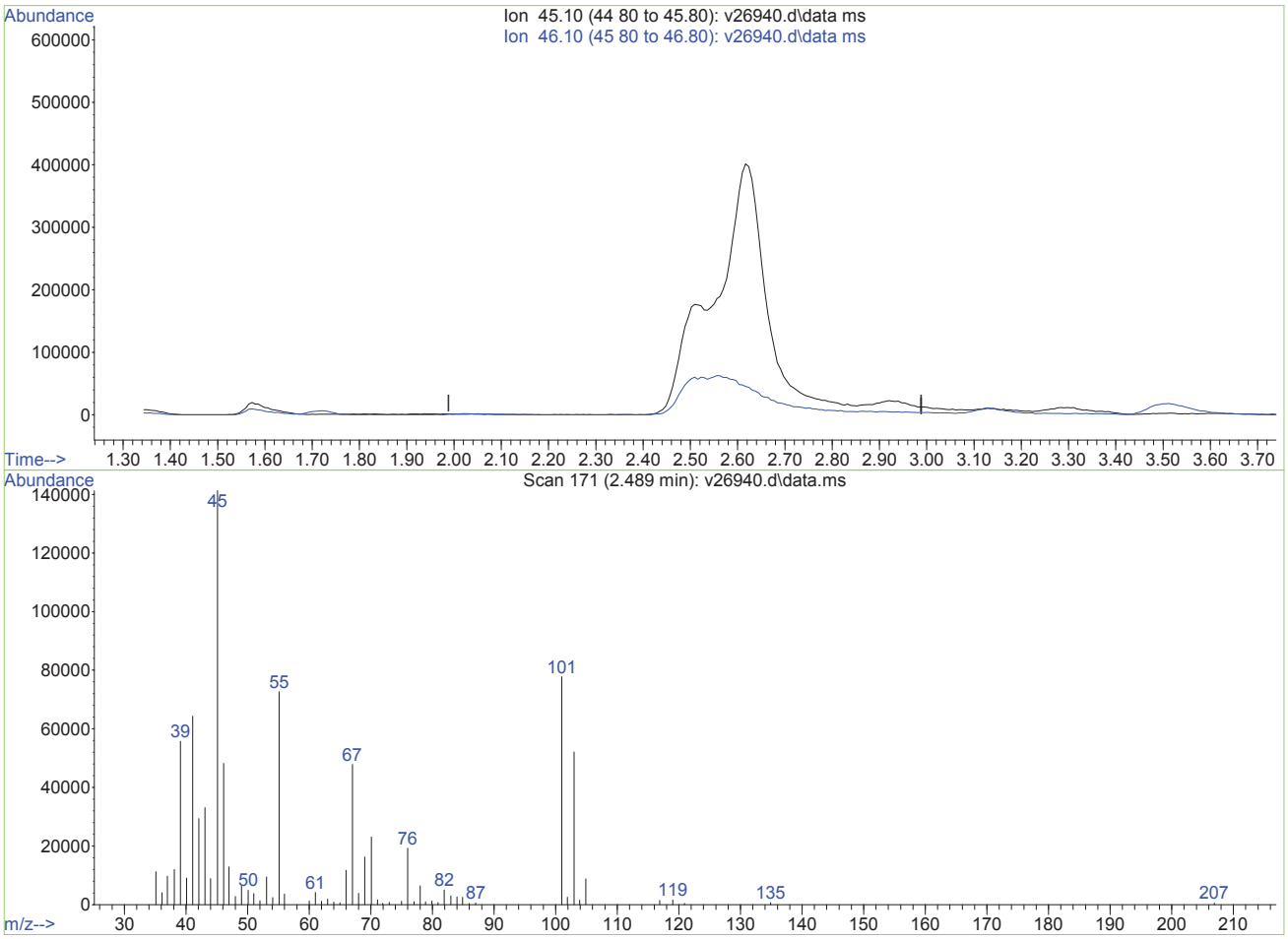
response 0

Ion	Exp%	Act%
65.10	100	0.00
46.10	54.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26940.D edits: tert butyl alcohol-d9

Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:50:05 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26940.d\data.ms

(2) Ethanol (p)

2.489min (-2.489) 0.00ug/L

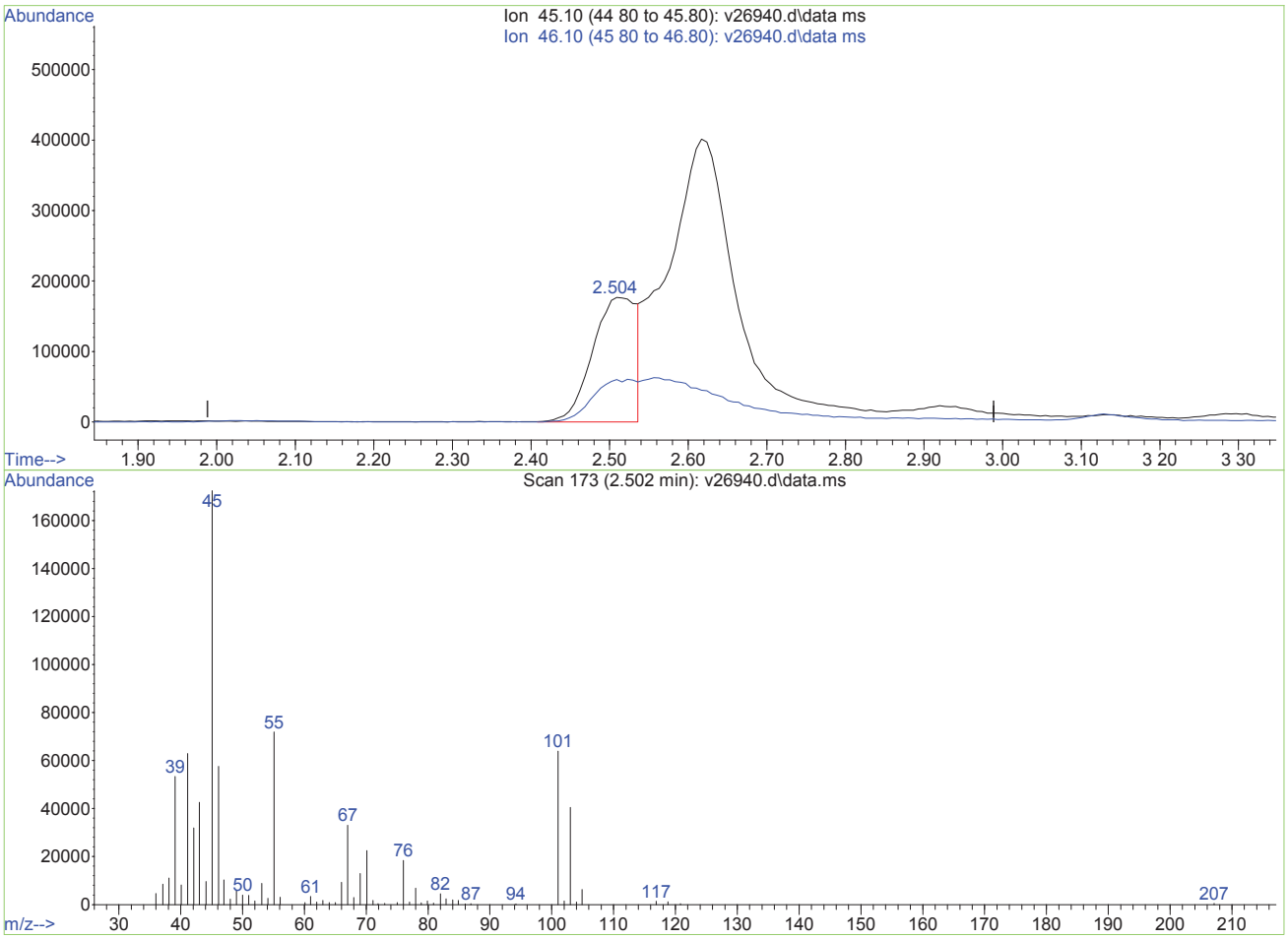
response 0

Ion	Exp%	Act%
45.10	100	0.00
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26940.D edits: Ethanol

Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:50:05 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26940.d\data.ms

(2) Ethanol (p)

2.502min (+0.014) 19824.86ug/L m

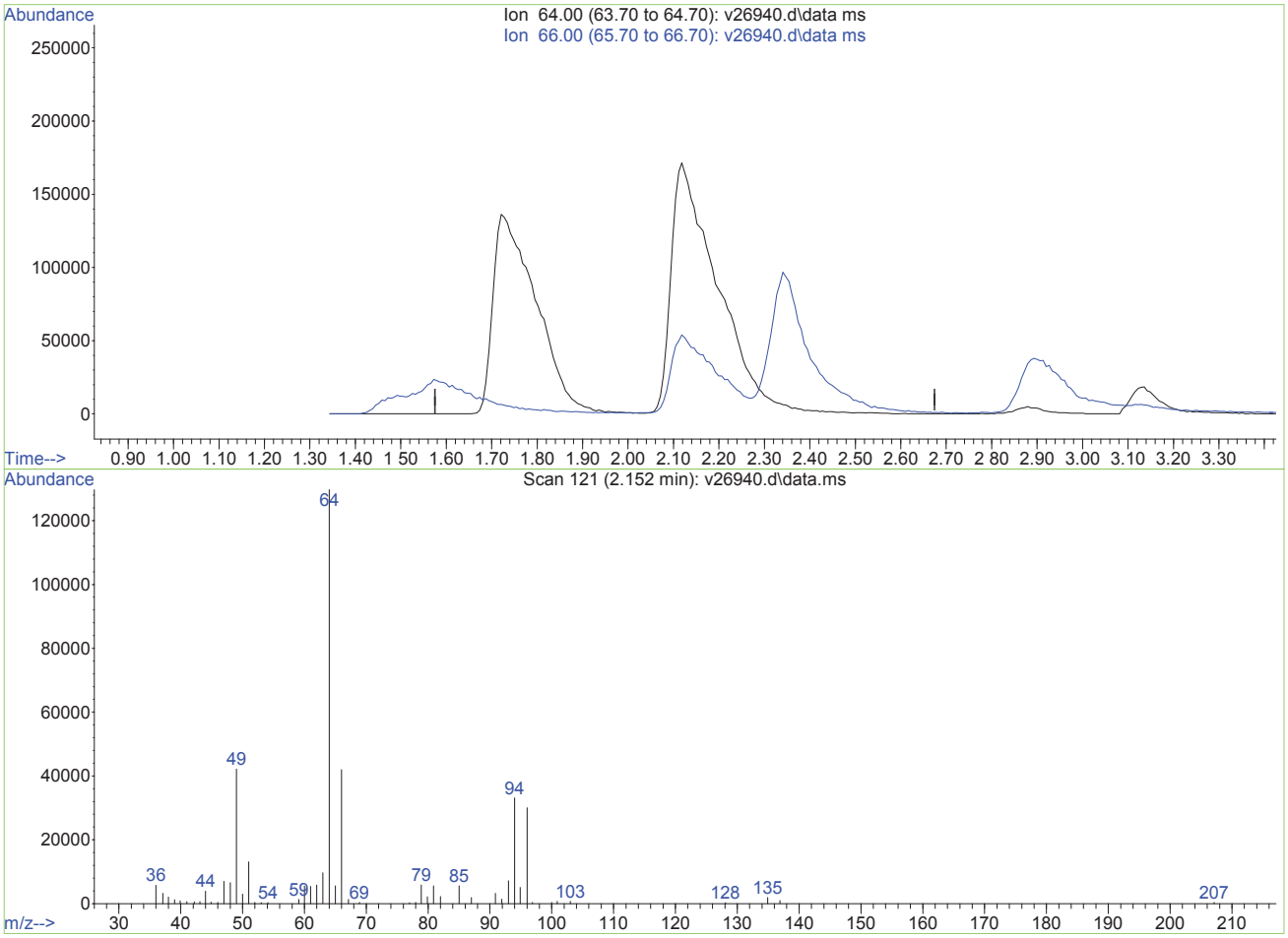
response 690608

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26940.D edits: Ethanol

Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:50:05 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26940.d\data.ms

(4) chloroethane (p)

2.155min (-2.155) 0.00ug/L

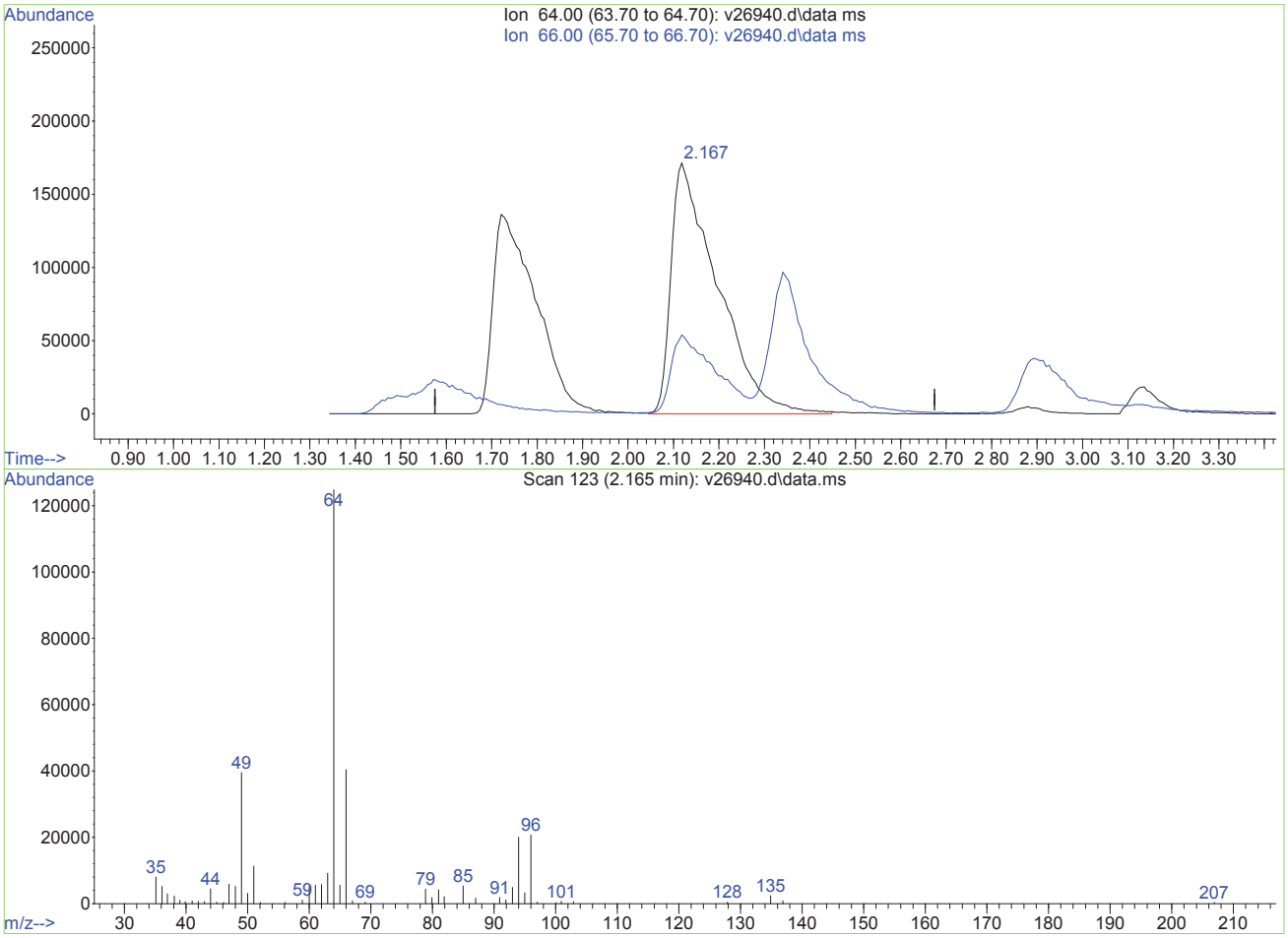
response 0

Ion	Exp%	Act%
64.00	100	0.00
66.00	34.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26940.D edits: chloroethane

Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:50:05 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26940.d\data.ms

(4) chloroethane (p)

2.165min (+0.010) 180.75ug/L m

response 1217177

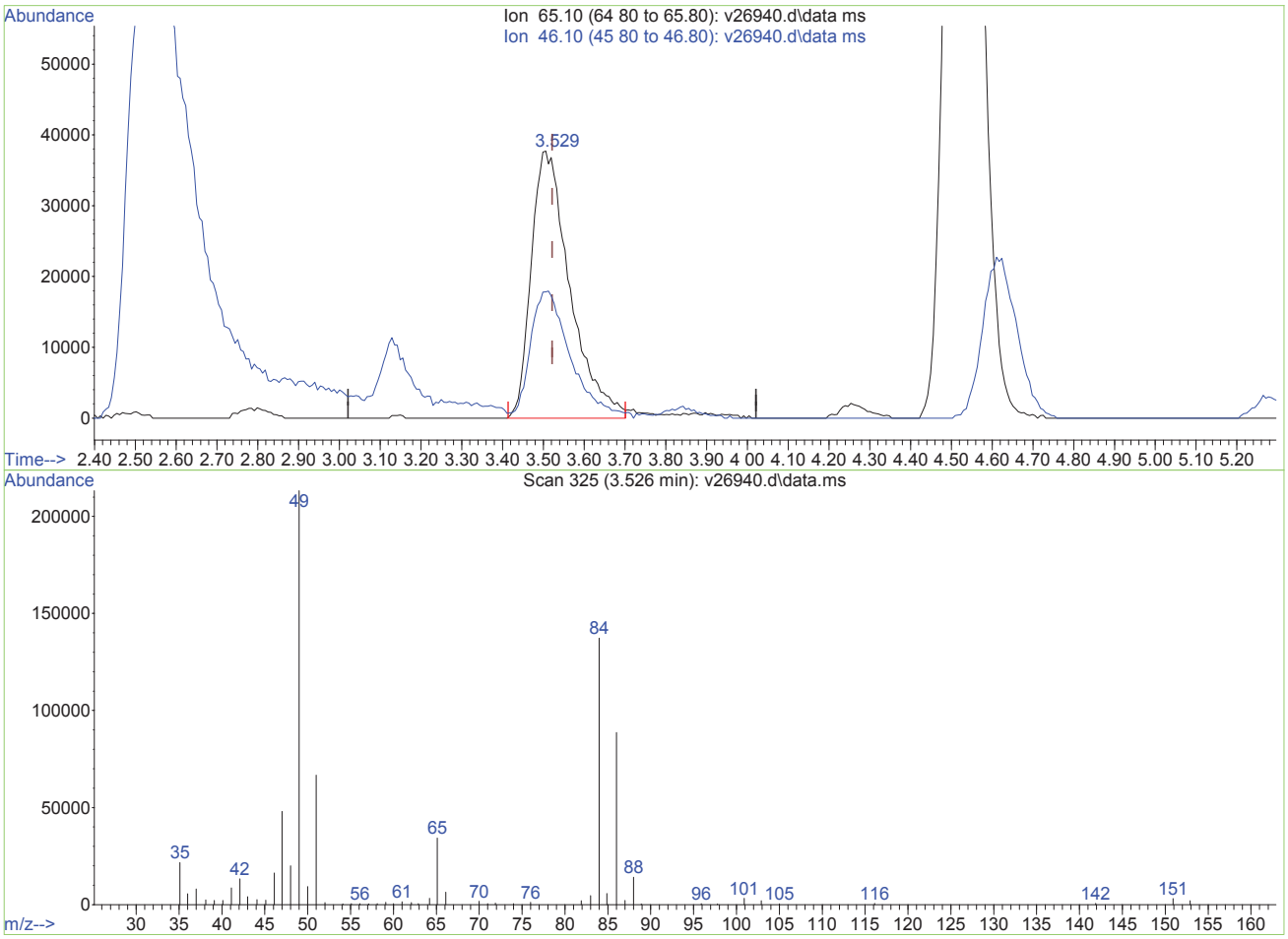
Ion	Exp%	Act%
64.00	100	100
66.00	34.60	32.37
0.00	0.00	0.00
0.00	0.00	0.00

V26940.D edits: chloroethane

Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:56:38 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26940.d\data.ms

(1) tert butyl alcohol-d9 (I)

3.526min (+0.004) 500.00ug/L m

response 248311

Ion	Exp%	Act%
65.10	100	100
46.10	54.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26940.D edits: tert butyl alcohol-d9

SGS ACCUTEST MC27828

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26942.d
Acq On : 7 Jan 2014 5:47 pm
Operator : amym
Sample : ic1019-400
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

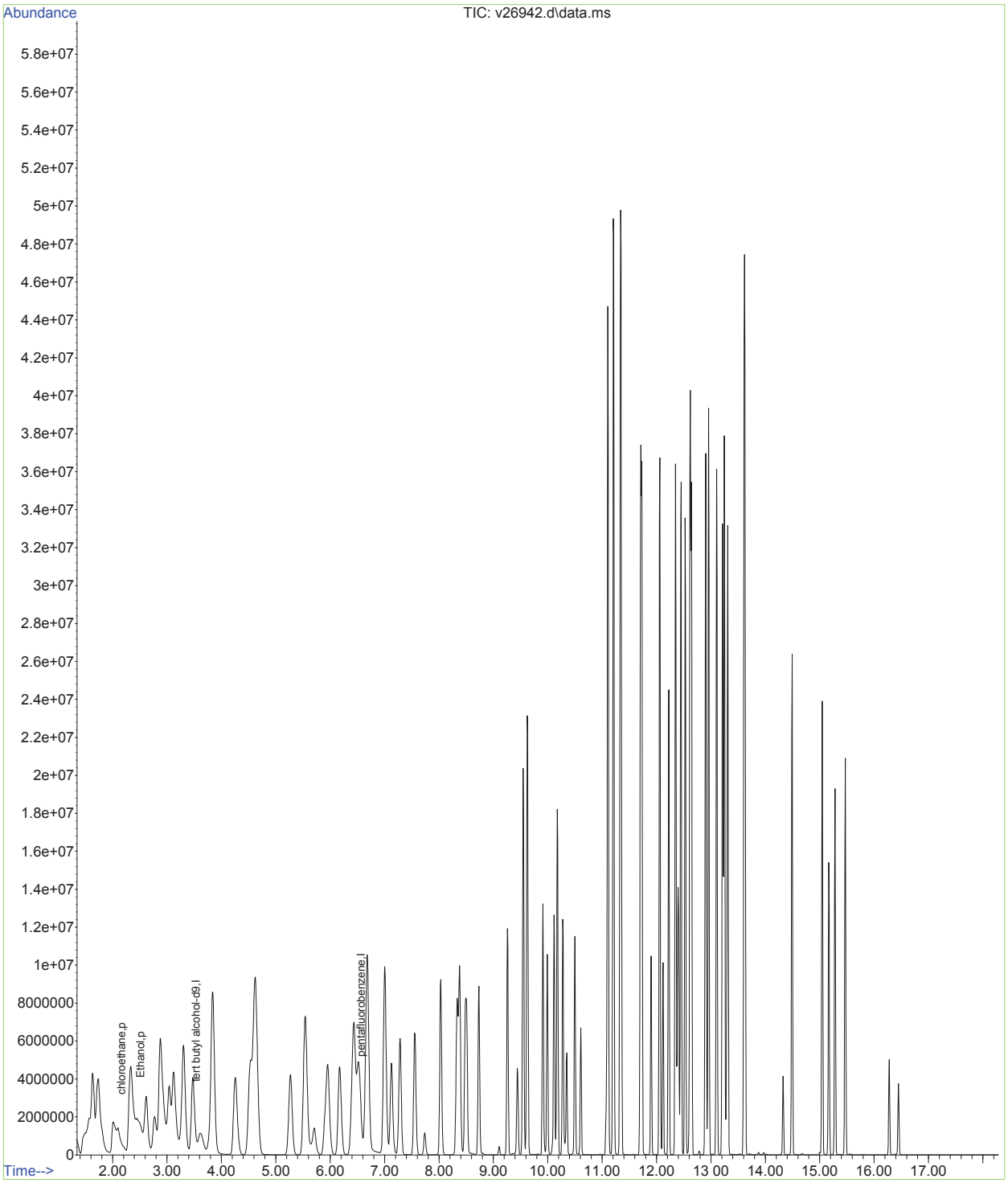
Quant Time: Oct 12 11:57:12 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.528	65	280929	500.00	ug/L	0.00
3) pentafluorobenzene	6.561	168	994052	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.509	45	1732790m	43966.69	ug/L	
4) chloroethane	2.160	64	2471921	305.53	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msv\1\databackup\v140107\
Data File : v26942.d
Acq On : 7 Jan 2014 5:47 pm
Operator : amym
Sample : ic1019-400
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

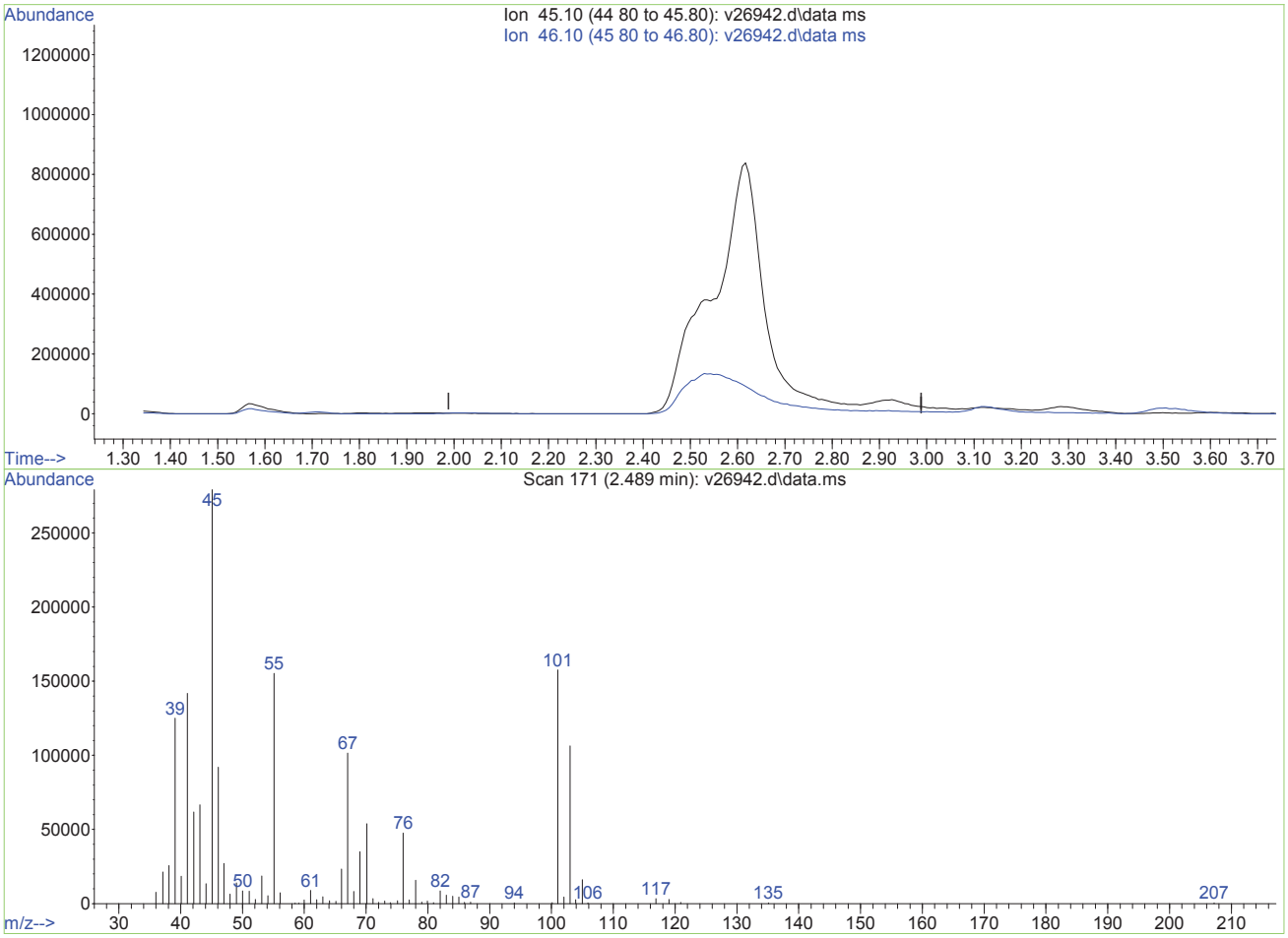
Quant Time: Oct 12 11:57:12 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26942.d
Acq On : 7 Jan 2014 5:47 pm
Operator : amym
Sample : ic1019-400
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 12 11:50:07 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26942.d\data.ms

(2) Ethanol (p)

2.489min (-2.489) 0.00ug/L

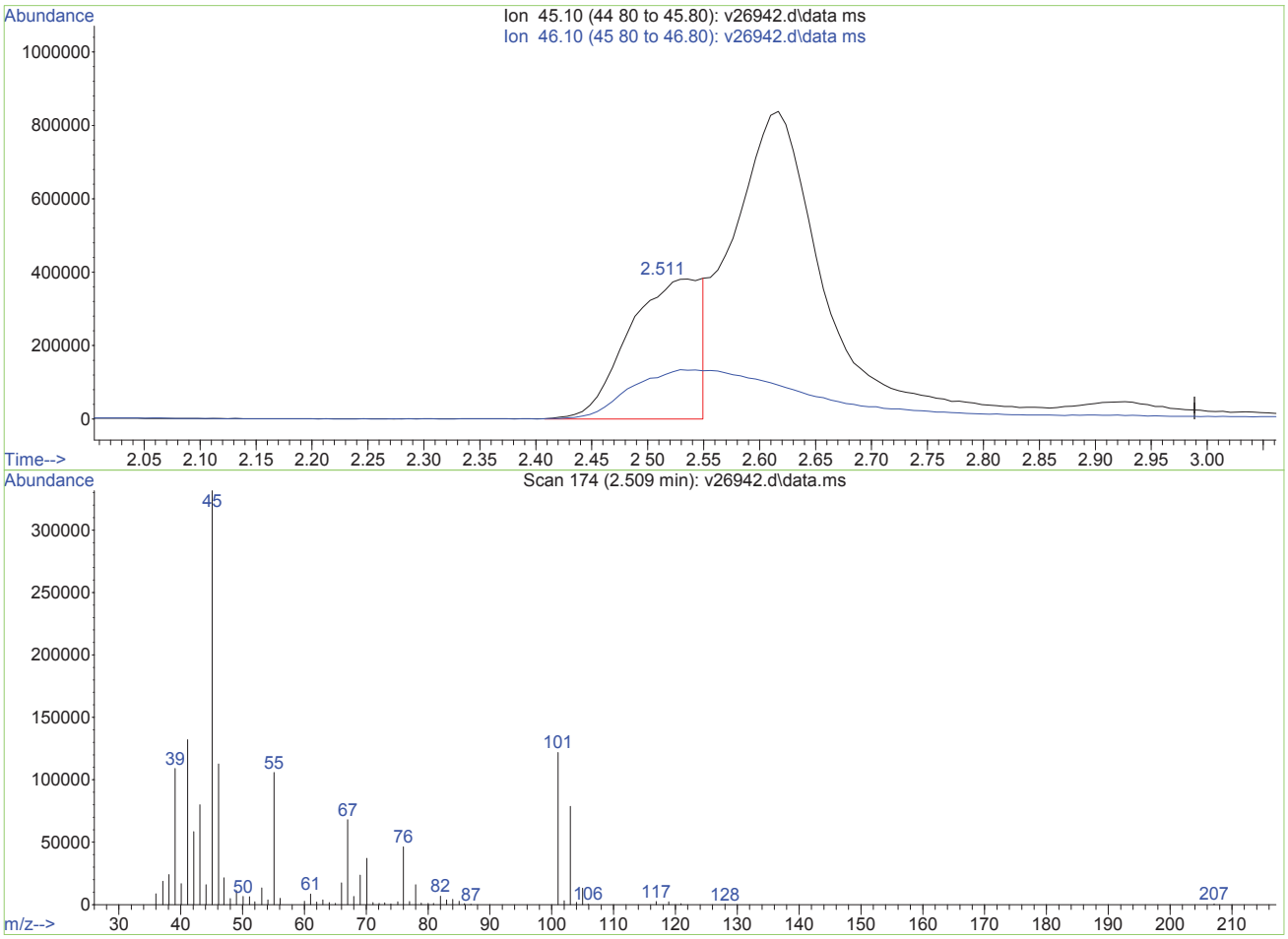
response 0

Ion	Exp%	Act%
45.10	100	0.00
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26942.D edits: Ethanol

Data Path : O:\msv\1\databackup\v140107\
Data File : v26942.d
Acq On : 7 Jan 2014 5:47 pm
Operator : amym
Sample : ic1019-400
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 12 11:50:07 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26942.d\data.ms

(2) Ethanol (p)

2.509min (+0.020) 43966.69ug/L m

response 1732790

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26942.D edits: Ethanol

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26944.d
Acq On : 7 Jan 2014 7:05 pm
Operator : amym
Sample : icv1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

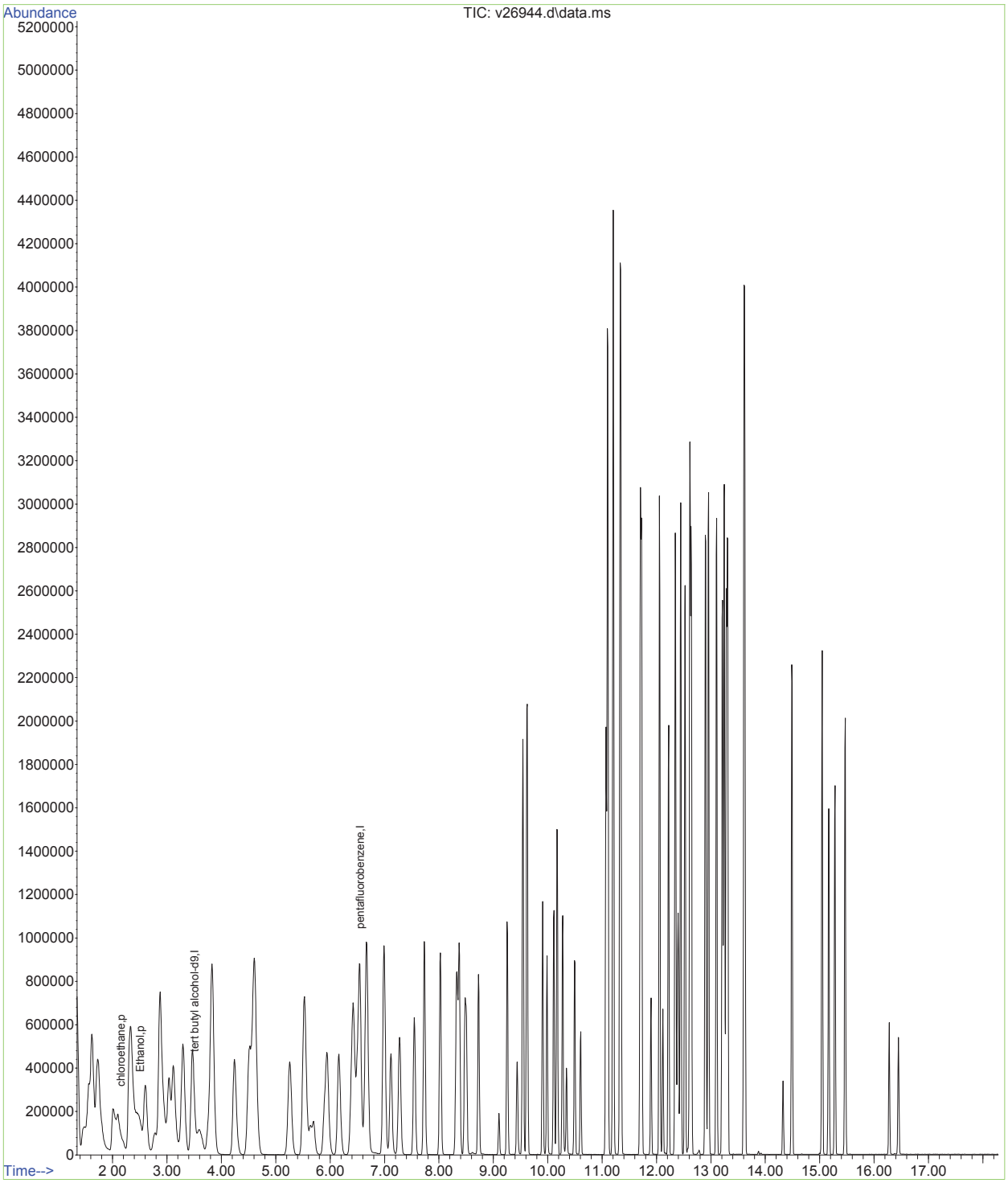
Quant Time: Oct 12 12:04:13 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.508	65	215524	500.00	ug/L	-0.01
3) pentafluorobenzene	6.550	168	735695	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.502	45	219095m	6281.66	ug/L	
4) chloroethane	2.149	64	314843	55.64	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msv\1\databackup\v140107\
Data File : v26944.d
Acq On : 7 Jan 2014 7:05 pm
Operator : amym
Sample : icv1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

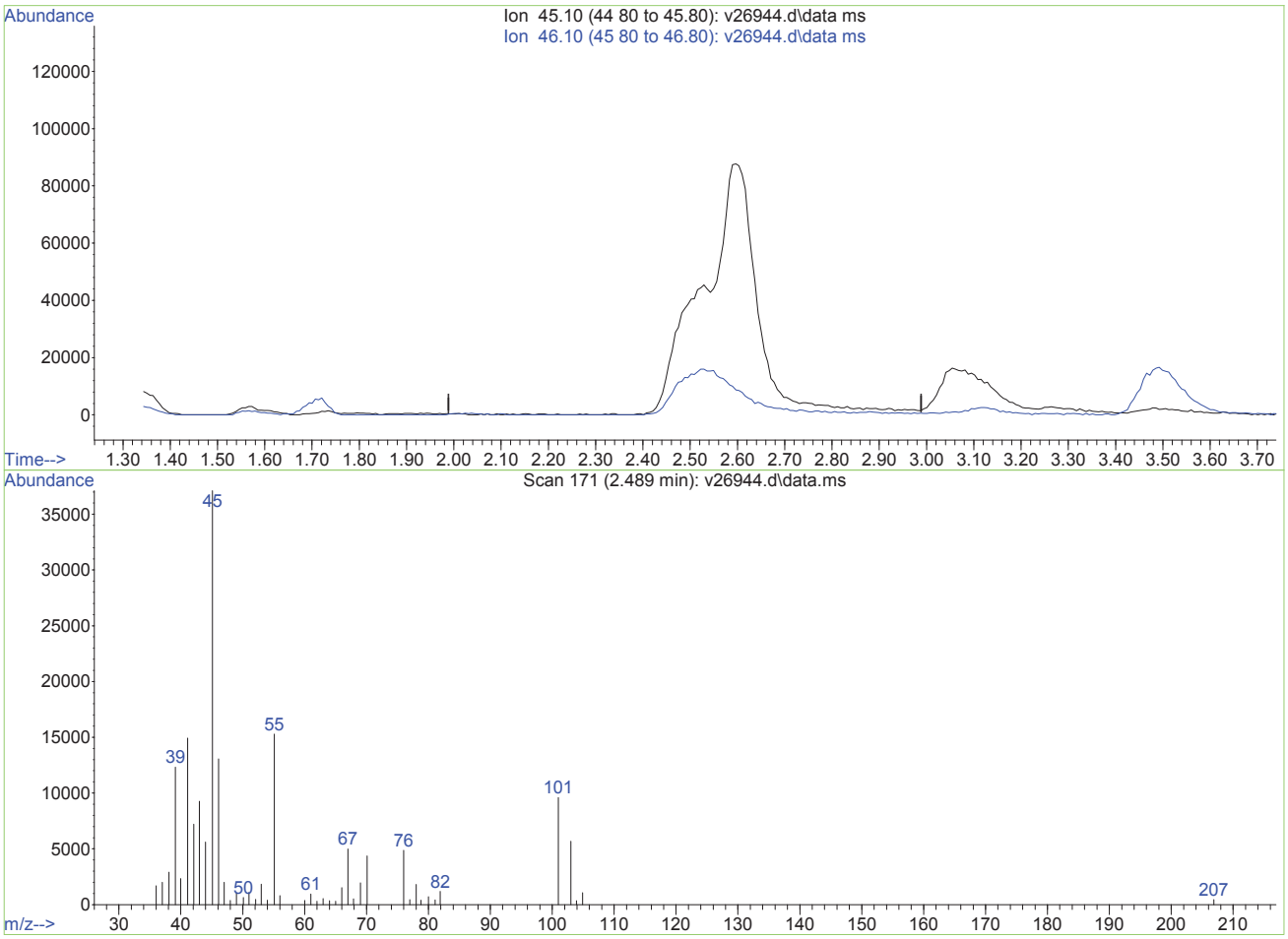
Quant Time: Oct 12 12:04:13 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26944.d
Acq On : 7 Jan 2014 7:05 pm
Operator : amym
Sample : icv1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 12 12:03:55 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



TIC: v26944.d\data.ms

(2) Ethanol (p)

2.489min (-2.489) 0.00ug/L

response 0

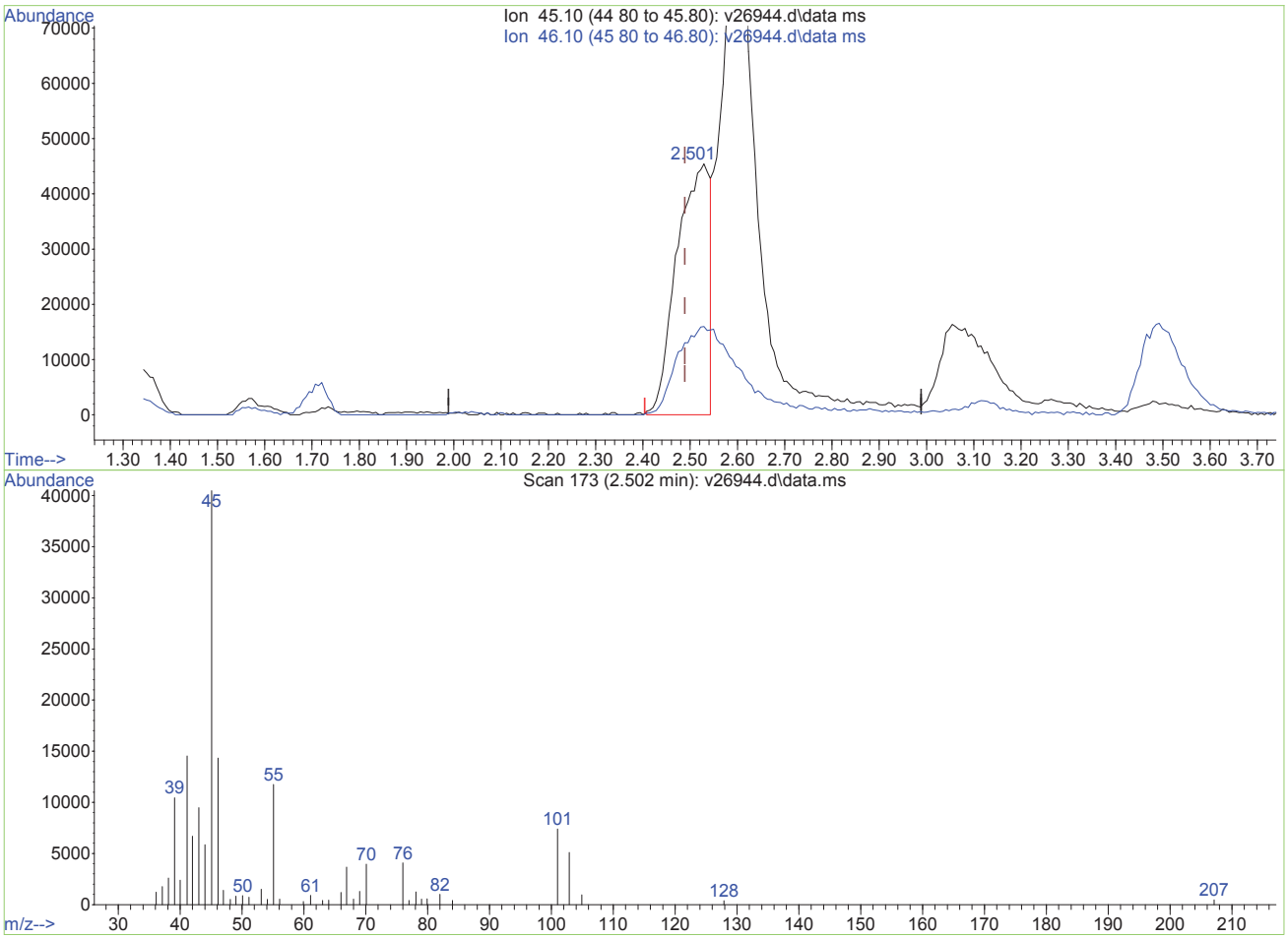
Ion	Exp%	Act%
45.10	100	0.00
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26944.D edits: Ethanol

Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26944.d
Acq On : 7 Jan 2014 7:05 pm
Operator : amym
Sample : icv1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 12 12:03:55 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



TIC: v26944.d\data.ms

(2) Ethanol (p)

2.502min (+0.013) 6281.66ug/L m

response 219095

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26944.D edits: Ethanol

SGS ACCUTEST MC27828

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140124\
Data File : v27313.d
Acq On : 24 Jan 2014 8:49 am
Operator : amym
Sample : cc1019-50
Misc : MS31017,MSV1031,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 17 22:52:32 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

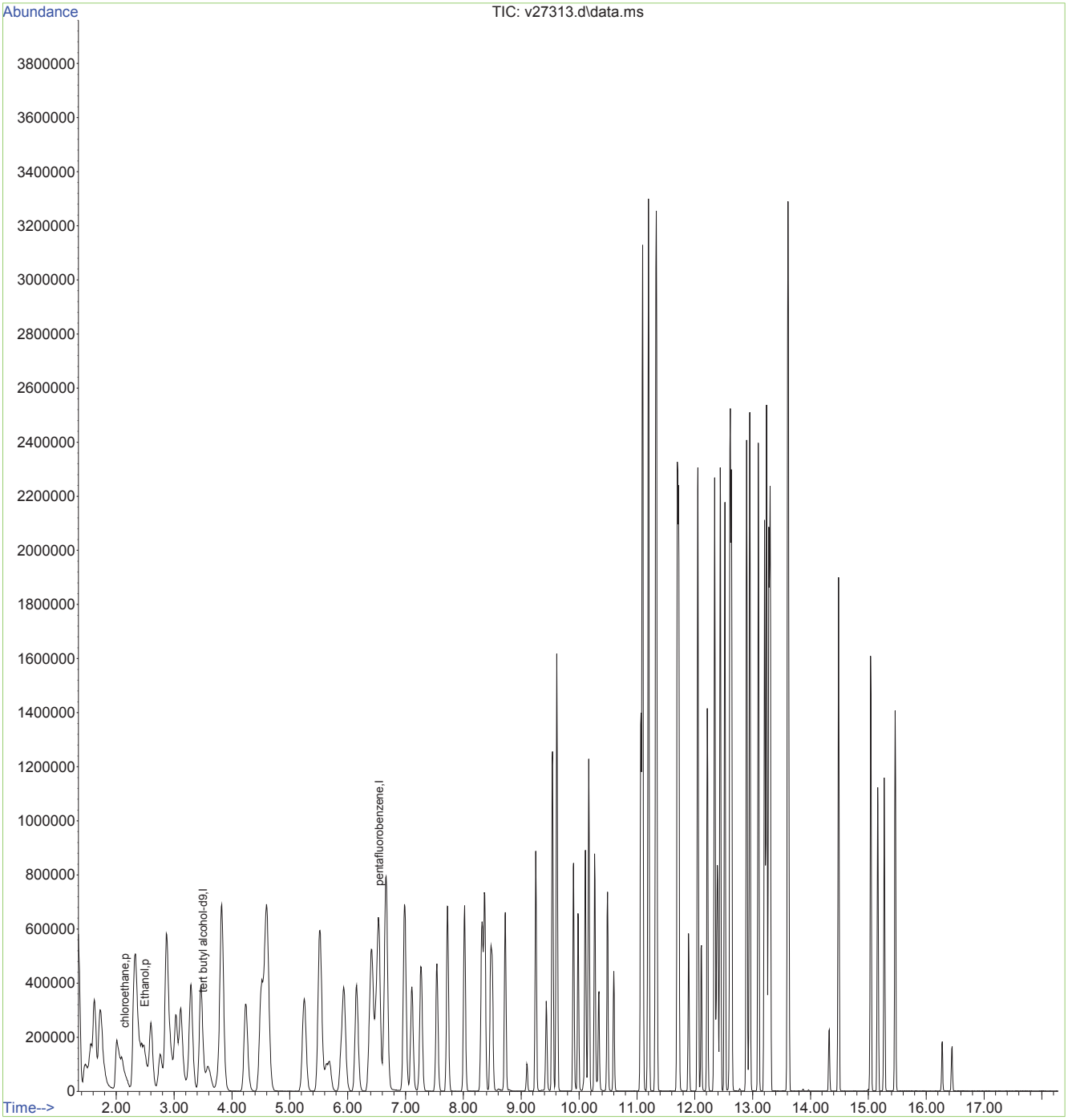
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.497	65	144720	500.00	ug/L	-0.02
3) pentafluorobenzene	6.544	168	514555	50.00	ug/L	-0.02
Target Compounds						Qvalue
2) Ethanol	2.496	45	207827	9071.58	ug/L	# 1
4) chloroethane	2.146	64	211693	53.45	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140124\
Data File : v27313.d
Acq On : 24 Jan 2014 8:49 am
Operator : amym
Sample : cc1019-50
Misc : MS31017,MSV1031,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 17 22:52:32 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140129\
Data File : v27424.d
Acq On : 29 Jan 2014 11:03 am
Operator : amym
Sample : cc1019-50
Misc : MS31038,MSV1035,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 19 08:20:27 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

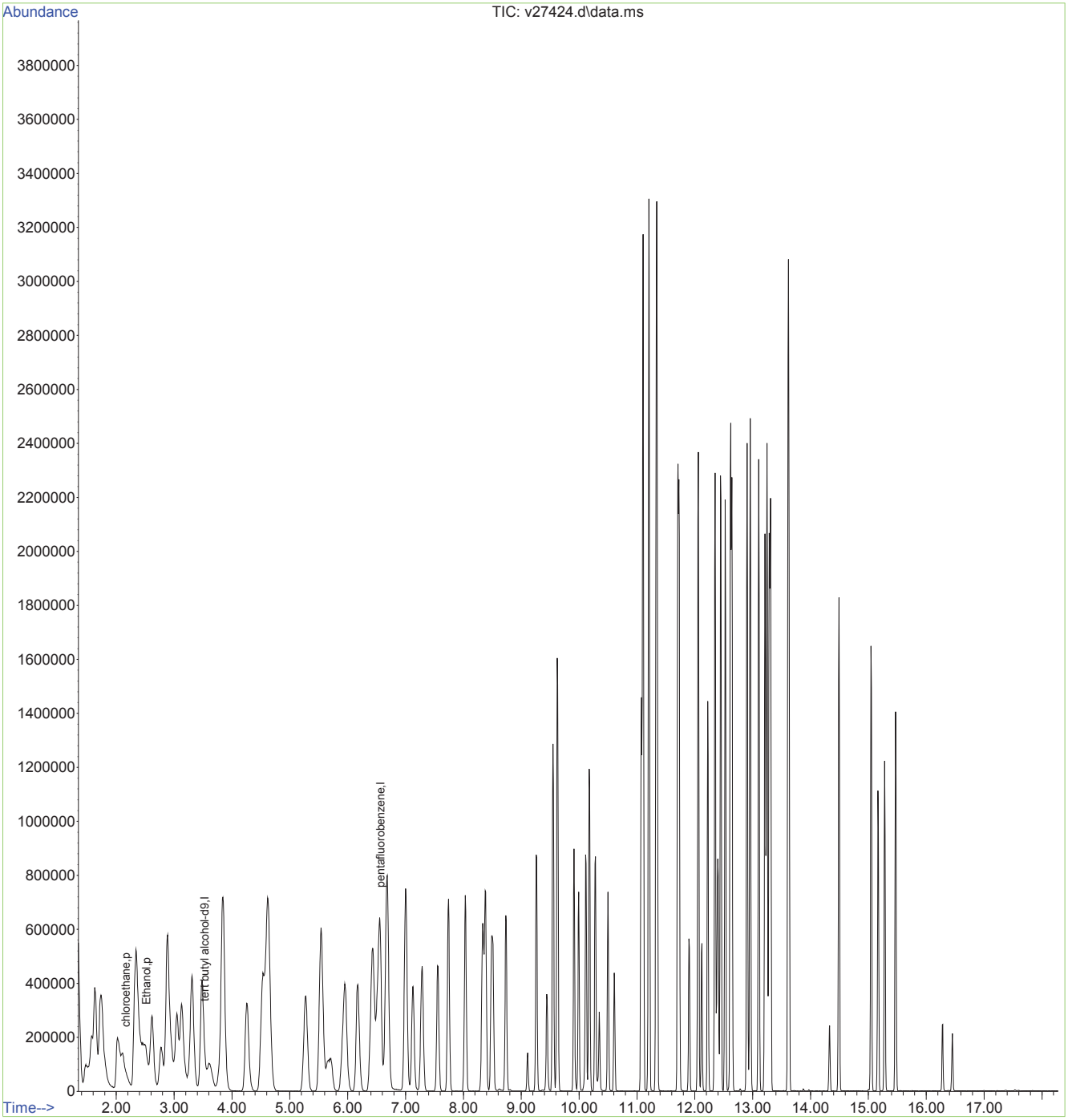
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.523	65	173284	500.00	ug/L	0.00
3) pentafluorobenzene	6.562	168	530361	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.513	45	201082	7238.36	ug/L	# 1
4) chloroethane	2.164	64	235242	57.70	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140129\
Data File : v27424.d
Acq On : 29 Jan 2014 11:03 am
Operator : amym
Sample : cc1019-50
Misc : MS31038,MSV1035,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 19 08:20:27 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140124\
Data File : v27321.d
Acq On : 24 Jan 2014 1:00 pm
Operator : amym
Sample : mc27828-2
Misc : MS31020,MSV1031,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 17 22:55:41 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.505	65	139379	500.00	ug/L	-0.02
3) pentafluorobenzene	6.550	168	358636	50.00	ug/L	0.00

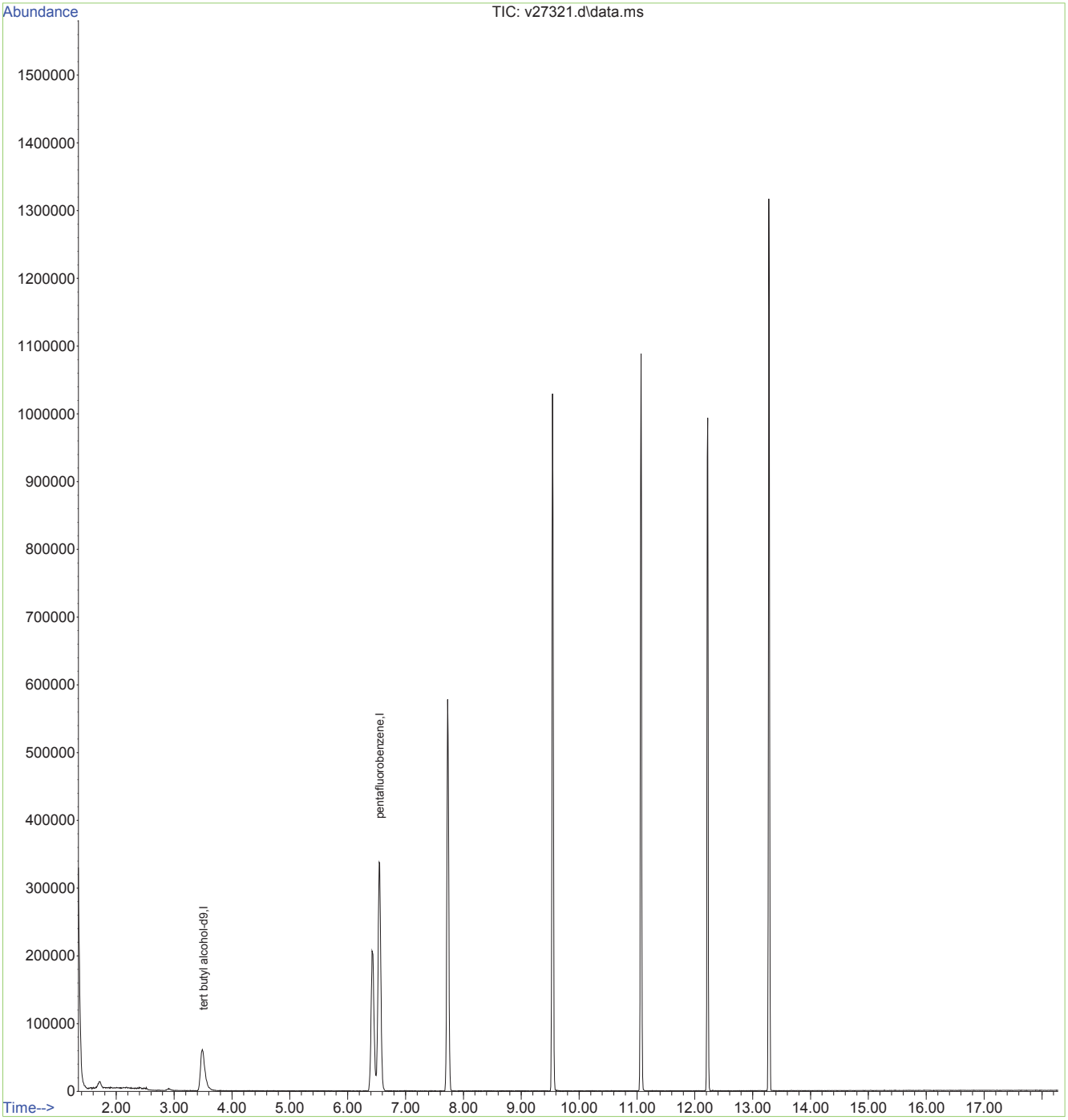
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140124\
Data File : v27321.d
Acq On : 24 Jan 2014 1:00 pm
Operator : amym
Sample : mc27828-2
Misc : MS31020,MSV1031,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 17 22:55:41 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140129\
Data File : v27450.d
Acq On : 29 Jan 2014 10:31 pm
Operator : amym
Sample : mc27828-1
Misc : MS31020,MSV1035,,,,5,1
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Nov 19 08:41:25 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.512	65	224455	500.00	ug/L	#-0.01
3) pentafluorobenzene	6.548	168	515940	50.00	ug/L	-0.01

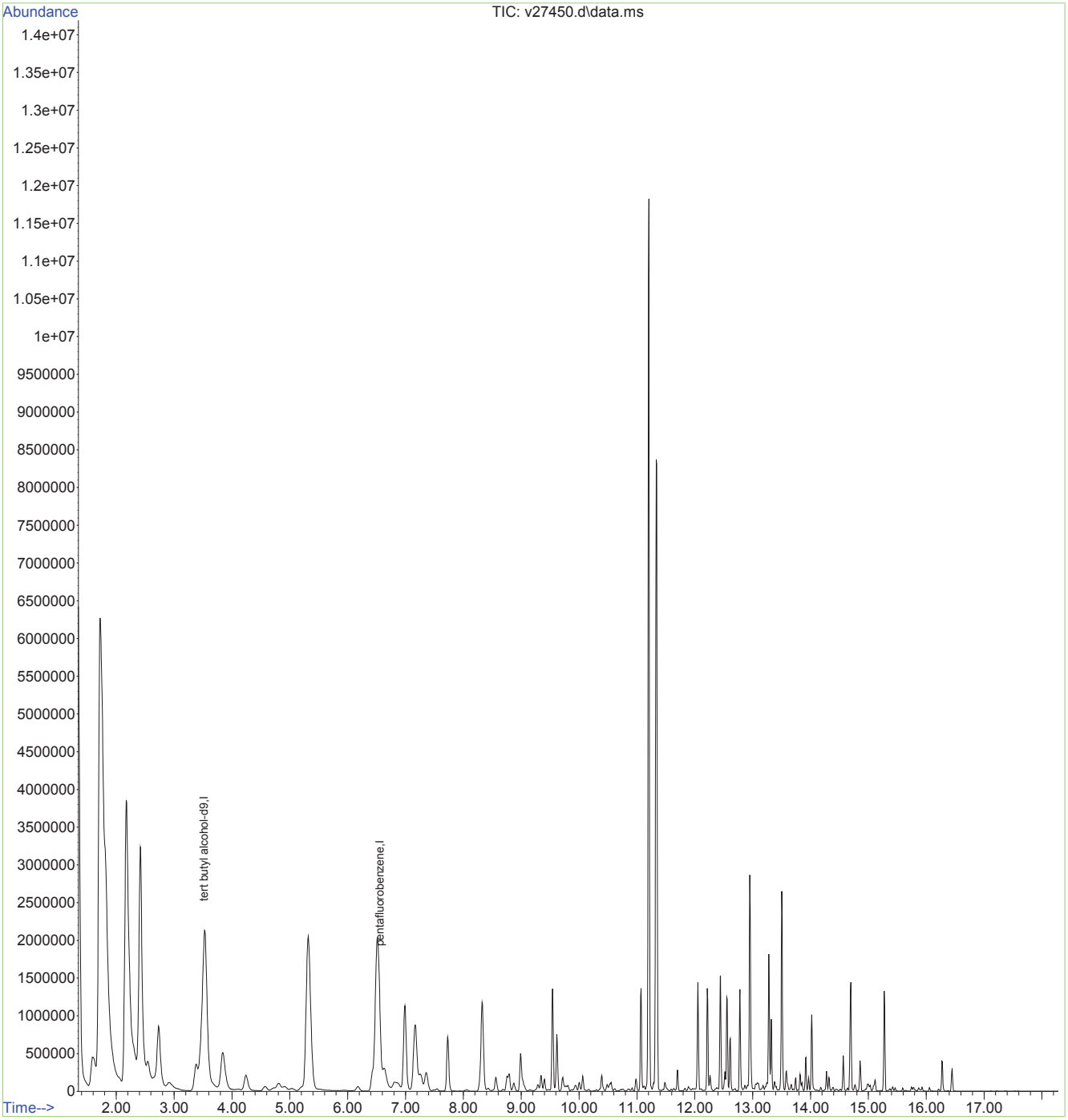
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140129\
Data File : v27450.d
Acq On : 29 Jan 2014 10:31 pm
Operator : amym
Sample : mc27828-1
Misc : MS31020,MSV1035,,,,5,1
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Nov 19 08:41:25 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140124\
Data File : v27314.d
Acq On : 24 Jan 2014 9:15 am
Operator : amym
Sample : bs
Misc : MS31017,MSV1031,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 17 22:53:18 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

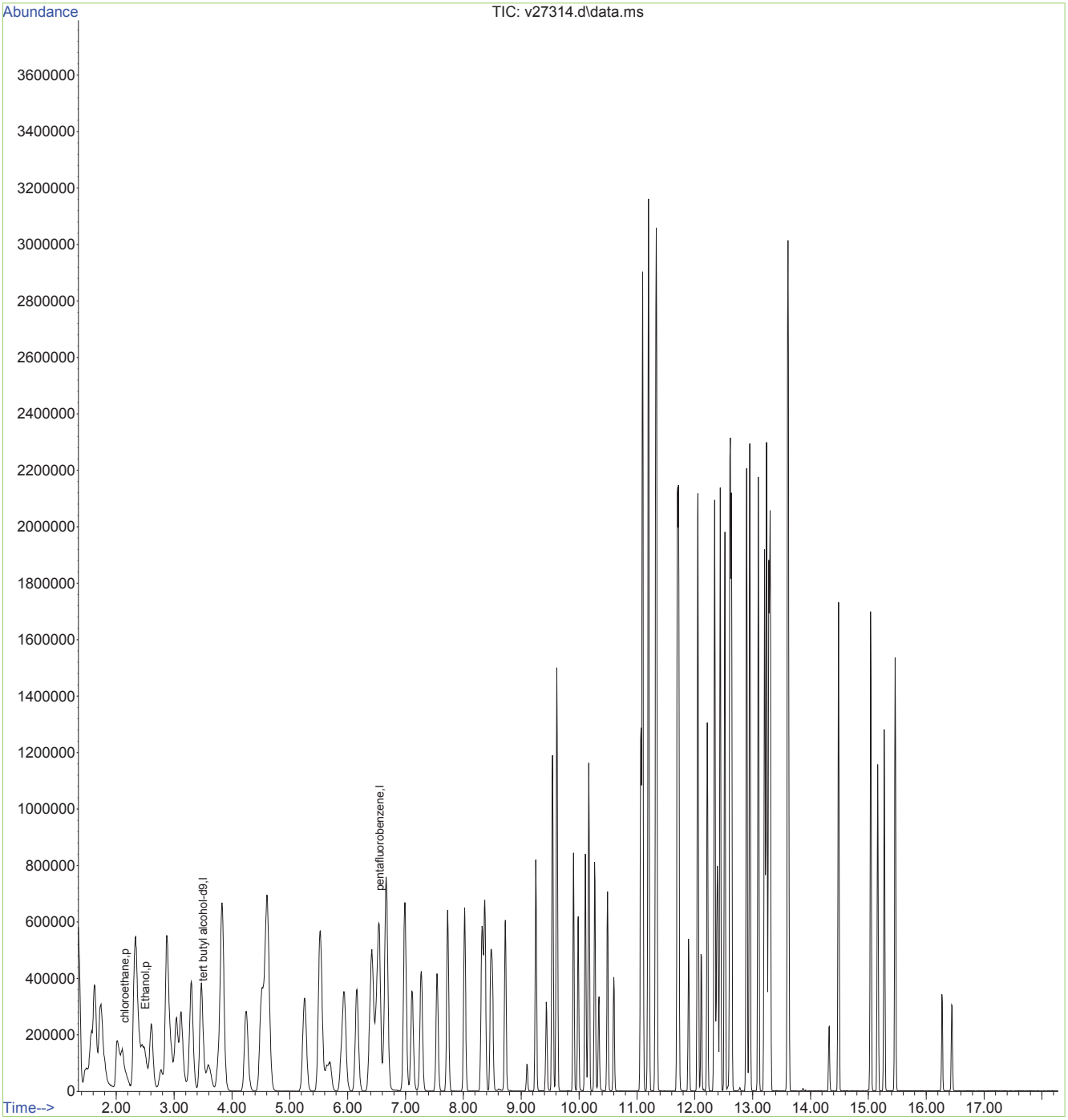
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.501	65	150270	500.00	ug/L	-0.02
3) pentafluorobenzene	6.548	168	493633	50.00	ug/L	-0.01
Target Compounds						Qvalue
2) Ethanol	2.505	45	210452	8835.01	ug/L	# 1
4) chloroethane	2.148	64	239360	63.16	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140124\
Data File : v27314.d
Acq On : 24 Jan 2014 9:15 am
Operator : amym
Sample : bs
Misc : MS31017,MSV1031,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 17 22:53:18 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140124\
Data File : v27315.d
Acq On : 24 Jan 2014 9:41 am
Operator : amym
Sample : bsd
Misc : MS31017,MSV1031,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 17 22:53:51 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

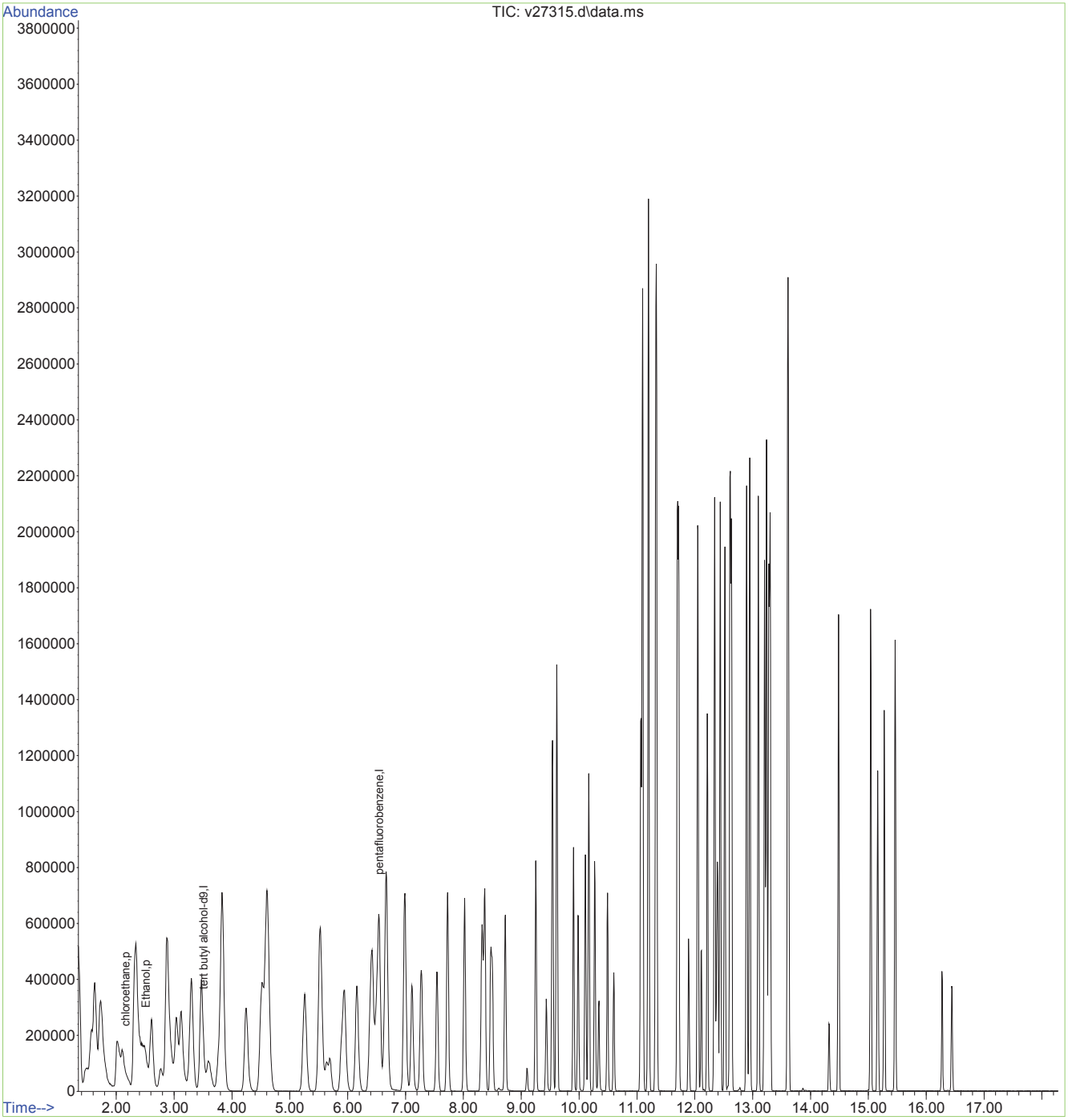
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.505	65	169311	500.00	ug/L	-0.02
3) pentafluorobenzene	6.547	168	515634	50.00	ug/L	-0.01
Target Compounds						Qvalue
2) Ethanol	2.507	45	218921	8120.19	ug/L	# 1
4) chloroethane	2.156	64	239052	60.35	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140124\
Data File : v27315.d
Acq On : 24 Jan 2014 9:41 am
Operator : amym
Sample : bsd
Misc : MS31017,MSV1031,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 17 22:53:51 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140124\
Data File : v27318.d
Acq On : 24 Jan 2014 11:02 am
Operator : amym
Sample : mb
Misc : MS31017,MSV1031,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 17 22:54:19 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.511	65	146752	500.00	ug/L	-0.01
3) pentafluorobenzene	6.551	168	409590	50.00	ug/L	0.00

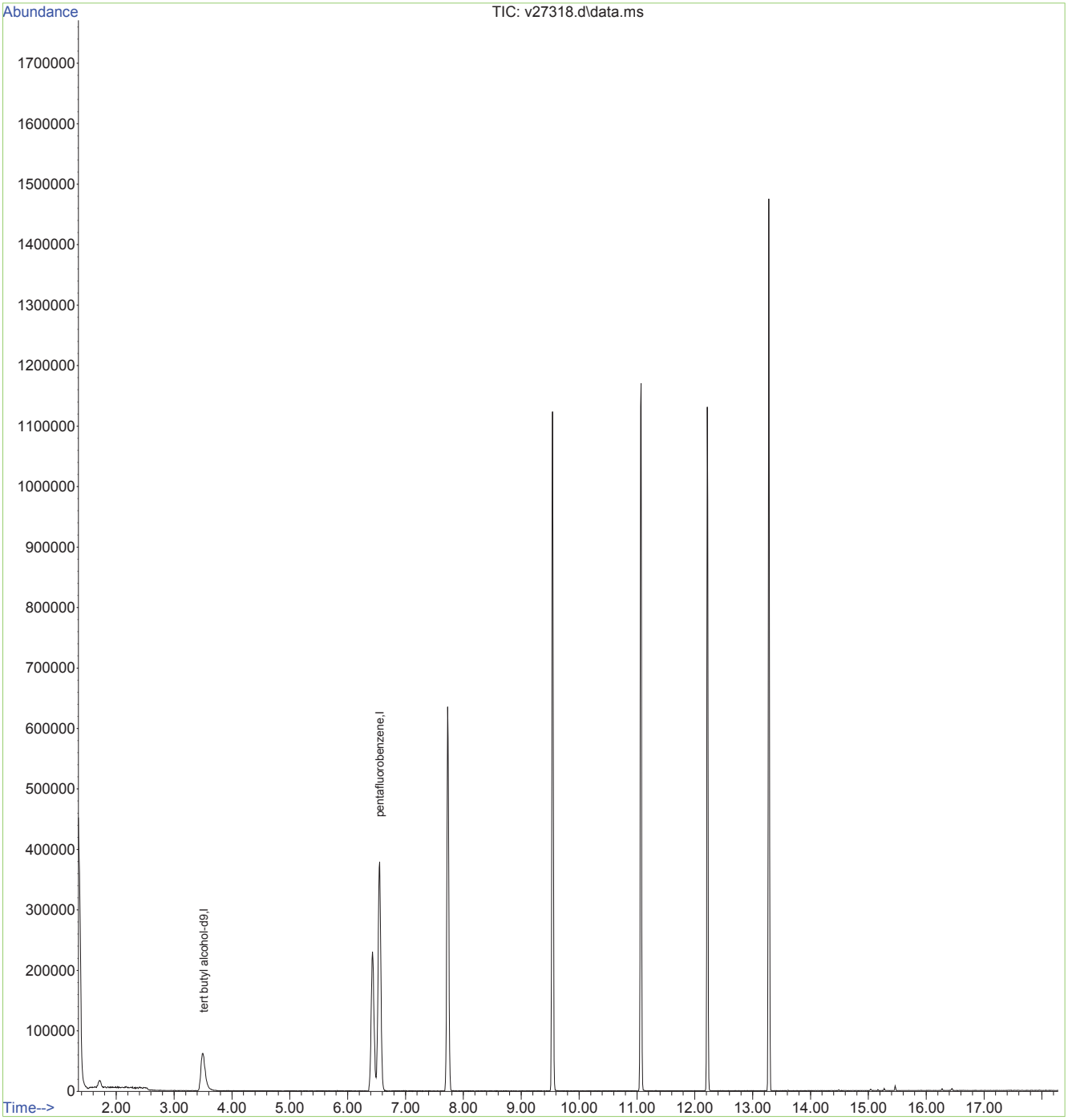
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140124\
Data File : v27318.d
Acq On : 24 Jan 2014 11:02 am
Operator : amym
Sample : mb
Misc : MS31017,MSV1031,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 17 22:54:19 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140124\
Data File : v27325.d
Acq On : 24 Jan 2014 3:11 pm
Operator : amym
Sample : mc27829-1ms
Misc : MS31017,MSV1031,,,,5,5
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 17 22:57:25 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

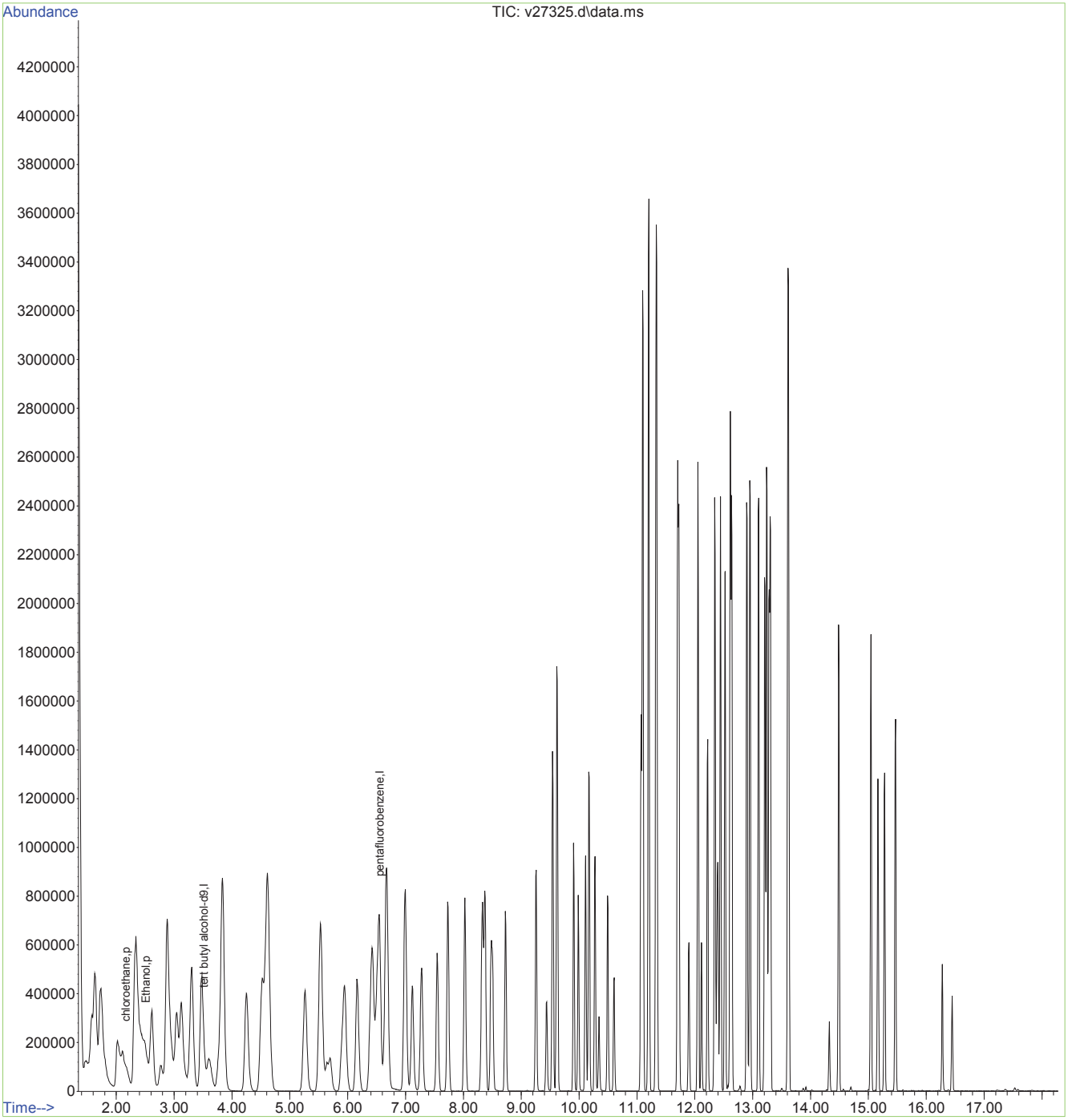
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.512	65	199654	500.00	ug/L	-0.01
3) pentafluorobenzene	6.553	168	586652	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.511	45	248027	7782.82	ug/L #	1
4) chloroethane	2.163	64	282804	62.78	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140124\
Data File : v27325.d
Acq On : 24 Jan 2014 3:11 pm
Operator : amym
Sample : mc27829-1ms
Misc : MS31017,MSV1031,,,,5,5
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 17 22:57:25 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140124\
Data File : v27326.d
Acq On : 24 Jan 2014 3:37 pm
Operator : amym
Sample : mc27829-1msd
Misc : MS31017,MSV1031,,,,5,5
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 17 22:57:47 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

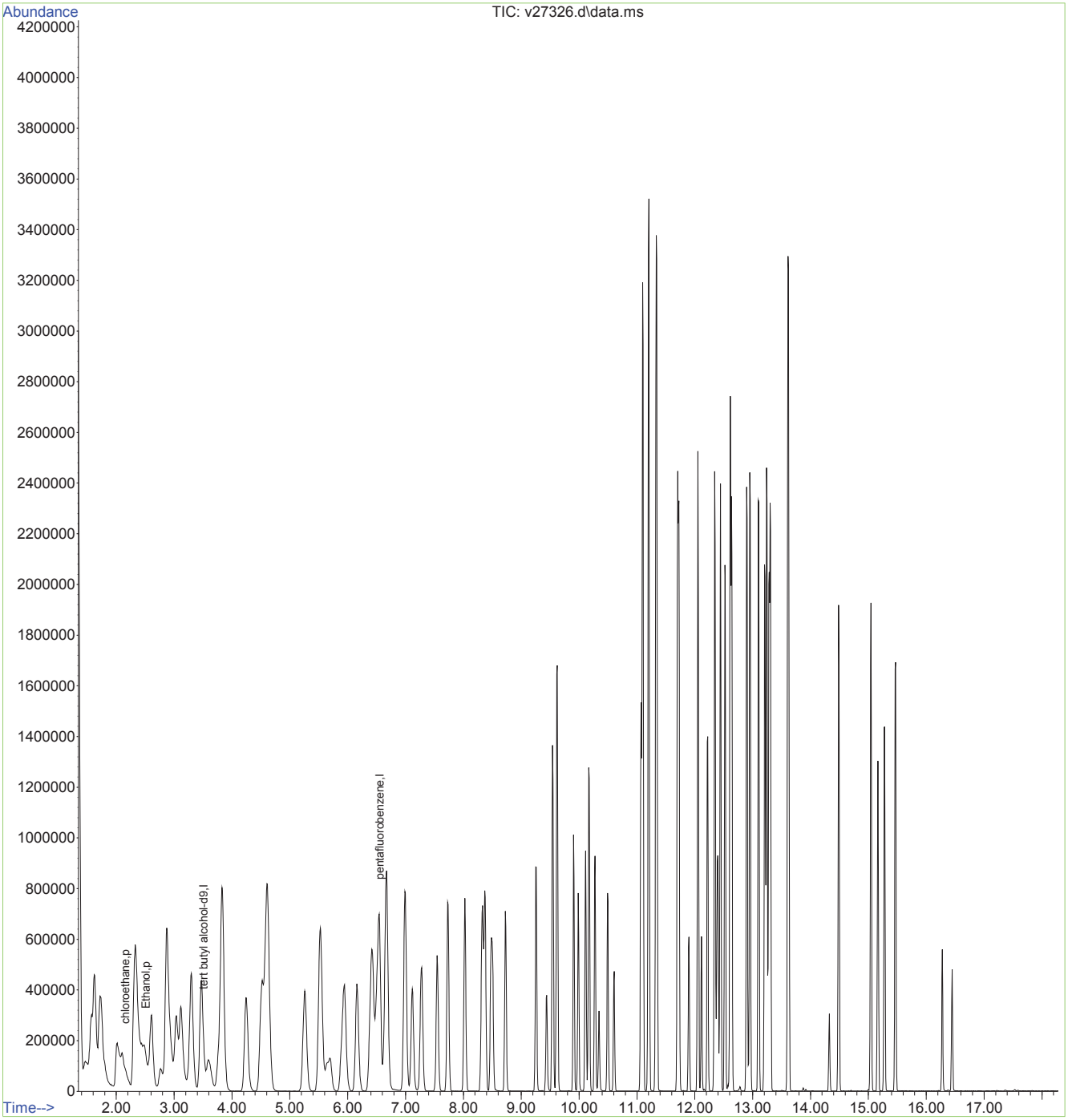
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.505	65	200678	500.00	ug/L	-0.02
3) pentafluorobenzene	6.551	168	571210	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.506	45	260240	8145.41	ug/L	# 1
4) chloroethane	2.149	64	255730	58.24	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140124\
Data File : v27326.d
Acq On : 24 Jan 2014 3:37 pm
Operator : amym
Sample : mc27829-1msd
Misc : MS31017,MSV1031,,,,5,5
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 17 22:57:47 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140129\
Data File : v27425.d
Acq On : 29 Jan 2014 11:29 am
Operator : amym
Sample : bs
Misc : MS31038,MSV1035,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 19 08:22:55 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

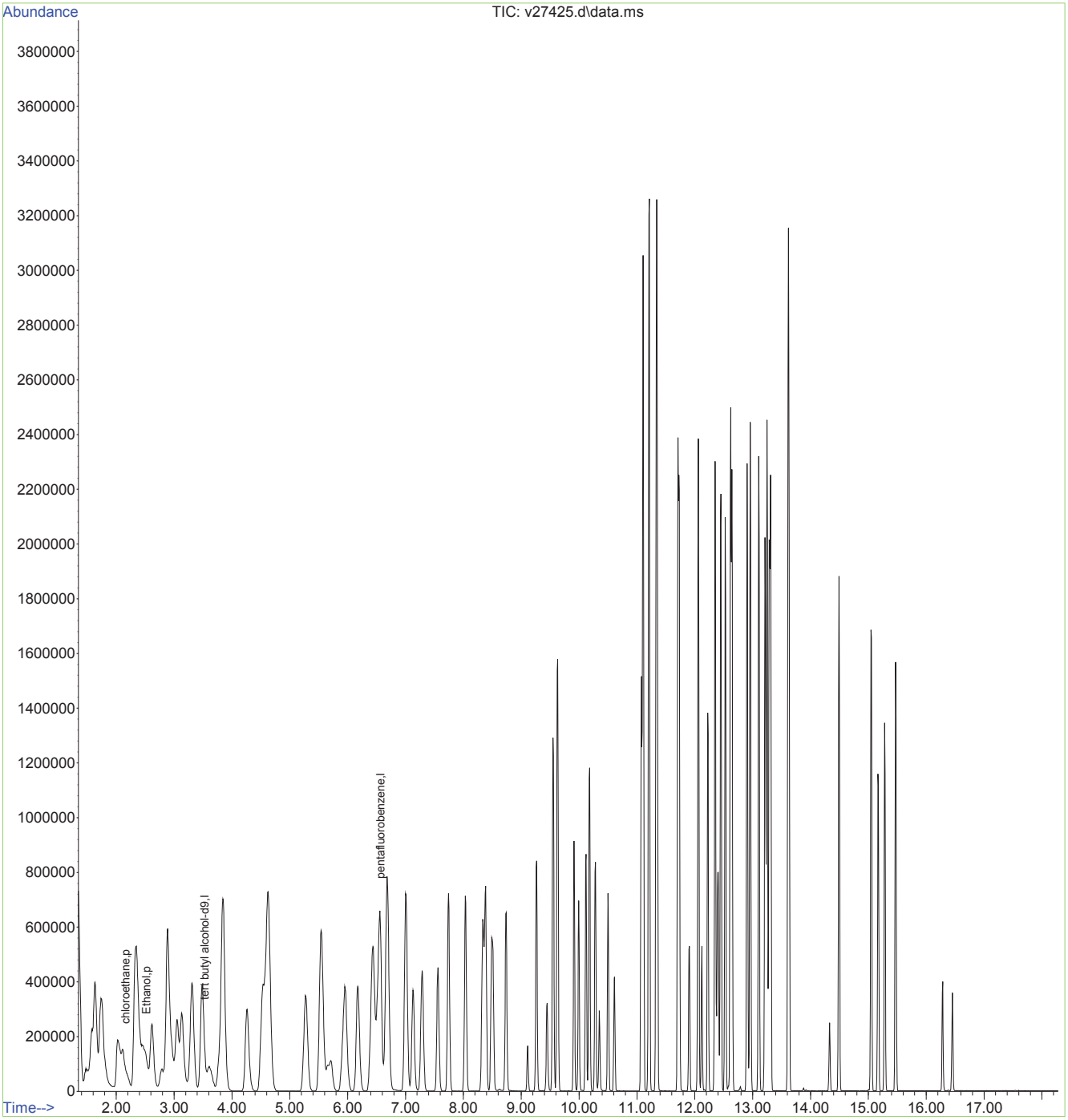
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.523	65	165753	500.00	ug/L	0.00
3) pentafluorobenzene	6.564	168	543620	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.520	45	203336	7679.44	ug/L	# 1
4) chloroethane	2.158	64	257570	61.69	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140129\
Data File : v27425.d
Acq On : 29 Jan 2014 11:29 am
Operator : amym
Sample : bs
Misc : MS31038,MSV1035,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 19 08:22:55 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140129\
Data File : v27426.d
Acq On : 29 Jan 2014 11:55 am
Operator : amym
Sample : bsd
Misc : MS31038,MSV1035,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 19 08:24:33 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

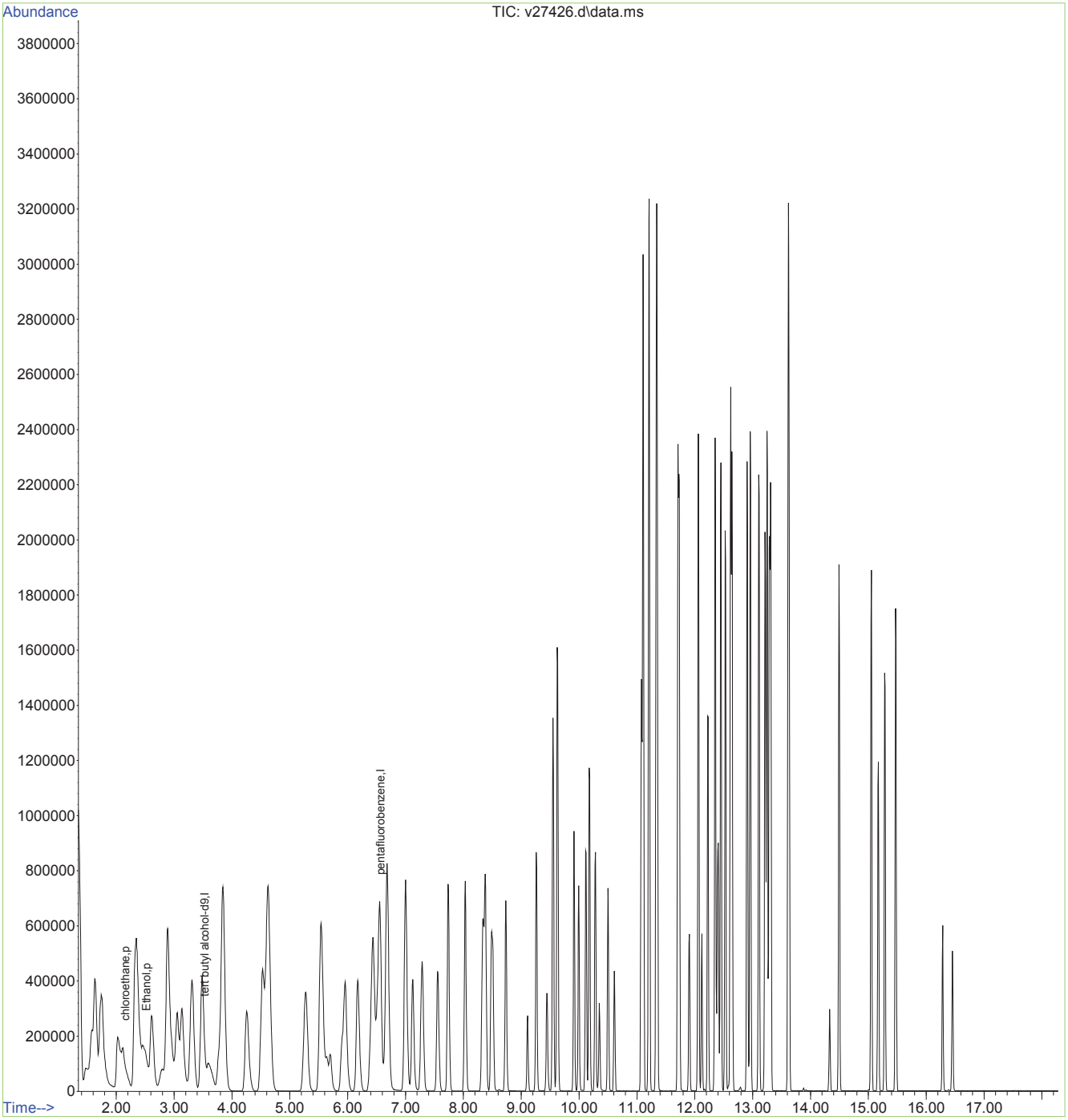
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.527	65	199457	500.00	ug/L	0.00
3) pentafluorobenzene	6.562	168	544877	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.516	45	194215m	5996.67	ug/L	
4) chloroethane	2.155	64	260487	62.25	ug/L	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140129\
Data File : v27426.d
Acq On : 29 Jan 2014 11:55 am
Operator : amym
Sample : bsd
Misc : MS31038,MSV1035,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

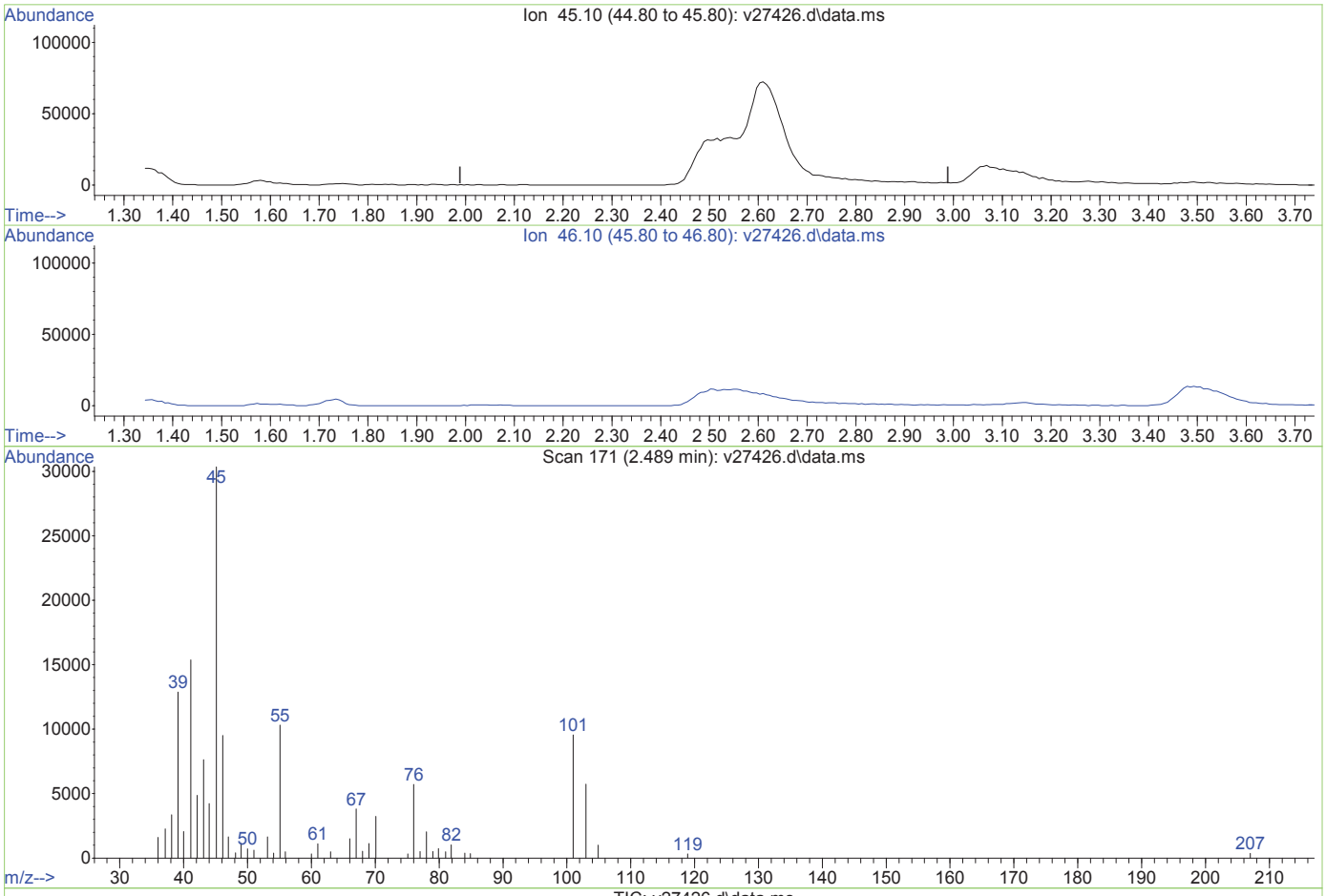
Quant Time: Nov 19 08:24:33 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140129\
Data File : v27426.d
Acq On : 29 Jan 2014 11:55 am
Operator : amym
Sample : bsd
Misc : MS31038,MSV1035,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 19 08:23:11 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



TIC: v27426.d\data.ms

(2) Ethanol (p)

2.489min (-2.489) 0.00ug/L

response 0

Ion	Exp%	Act%
45.10	100	0.00
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

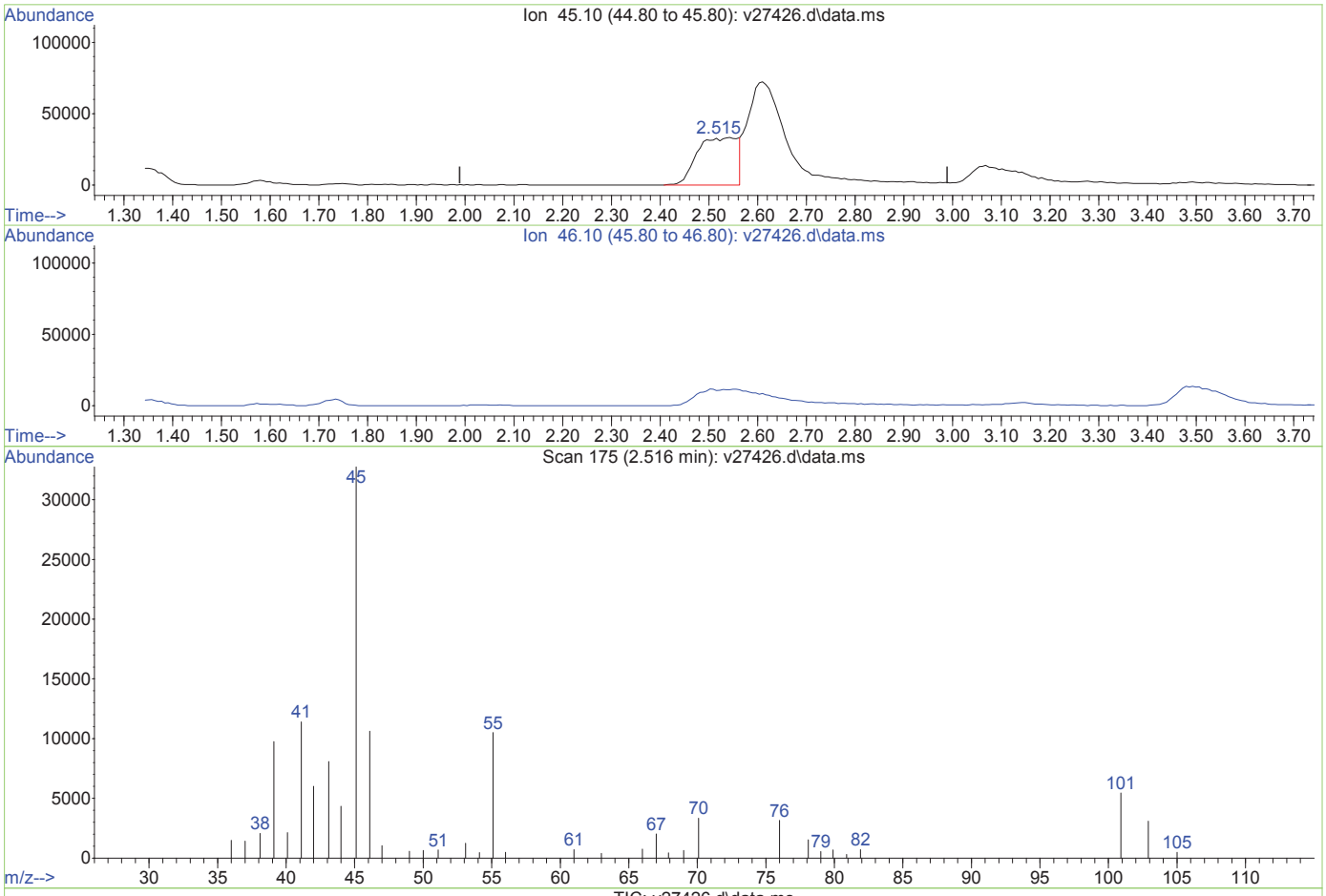
V27426.D edits: Ethanol

SGS ACCUTEST MC27828

Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140129\
Data File : v27426.d
Acq On : 29 Jan 2014 11:55 am
Operator : amym
Sample : bsd
Misc : MS31038,MSV1035,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 19 08:23:11 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



TIC: v27426.d\data.ms

(2) Ethanol (p)

2.516min (+0.027) 5996.67ug/L m

response 194215

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V27426.D edits: Ethanol

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140129\
Data File : v27429.d
Acq On : 29 Jan 2014 1:15 pm
Operator : amym
Sample : mb
Misc : MS31038,MSV1035,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 19 08:25:11 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.517	65	137712	500.00	ug/L	0.00
3) pentafluorobenzene	6.564	168	439388	50.00	ug/L	0.00

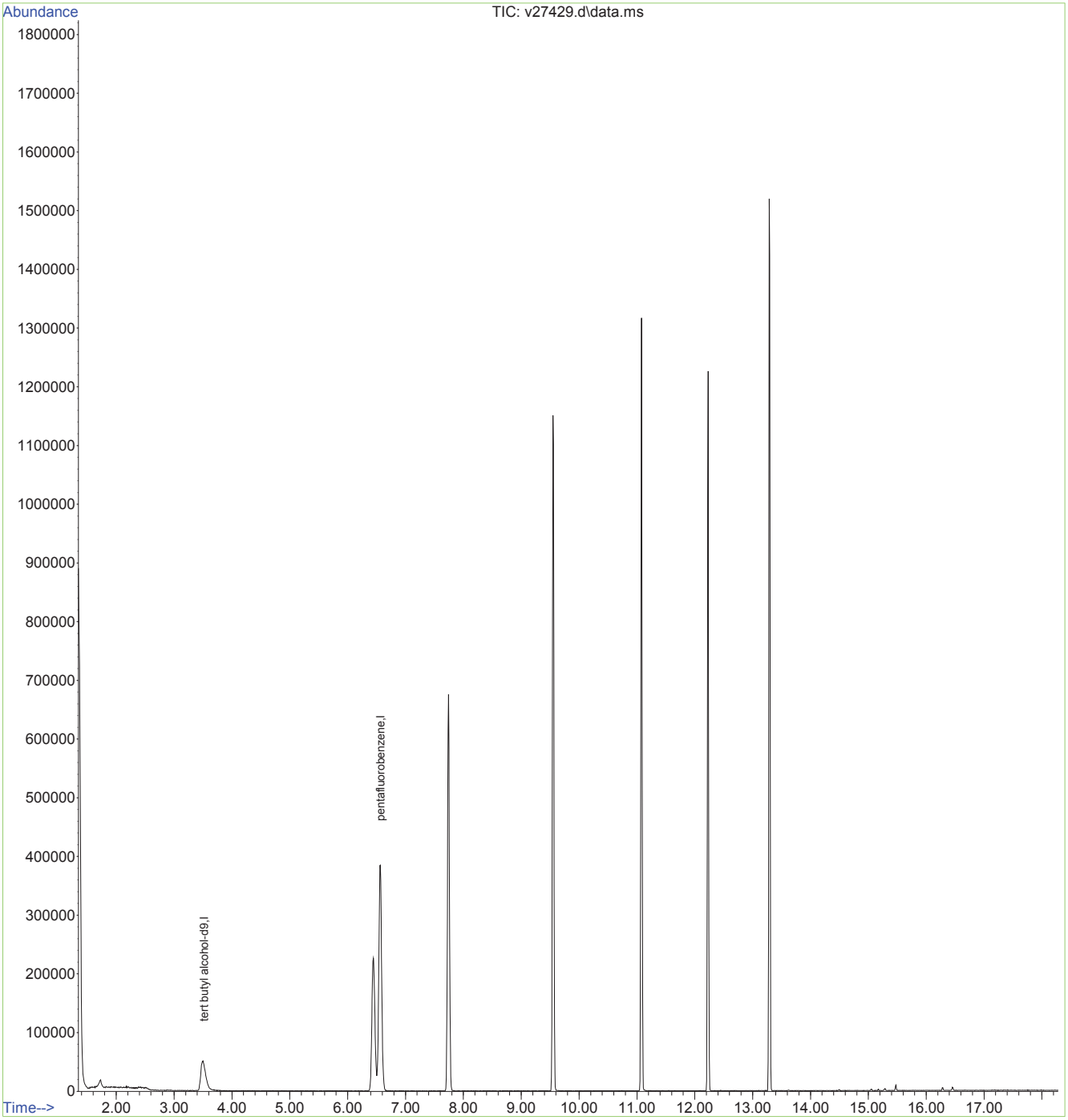
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140129\
Data File : v27429.d
Acq On : 29 Jan 2014 1:15 pm
Operator : amym
Sample : mb
Misc : MS31038,MSV1035,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 19 08:25:11 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140129\
Data File : v27436.d
Acq On : 29 Jan 2014 4:20 pm
Operator : amym
Sample : mc27893-2ms
Misc : MS31038,MSV1035,,,,5,5
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 19 08:30:23 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

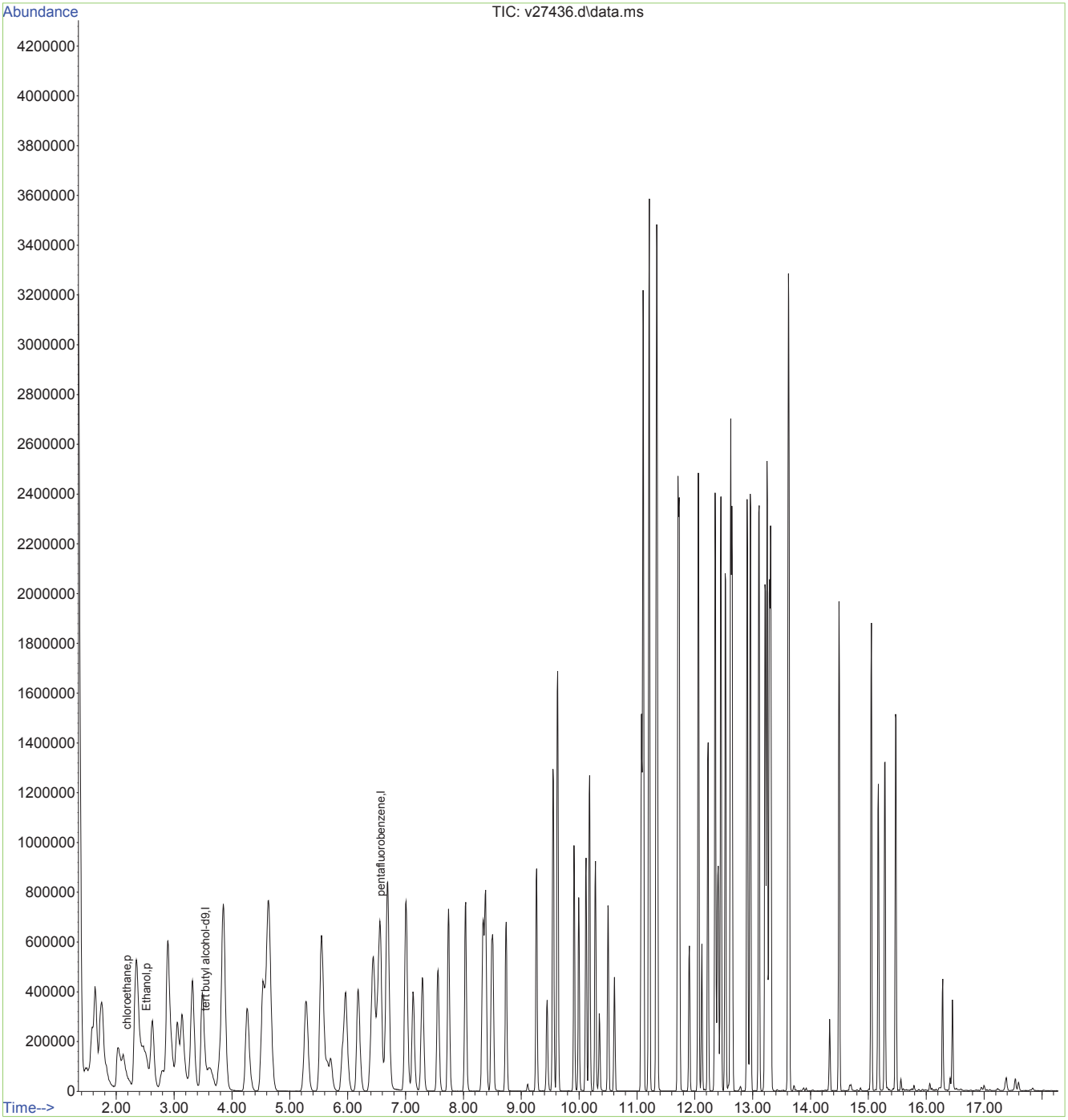
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.541	65	166769	500.00	ug/L	0.02
3) pentafluorobenzene	6.568	168	553229	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.515	45	126548	4567.46	ug/L	# 1
4) chloroethane	2.176	64	256541	60.36	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140129\
Data File : v27436.d
Acq On : 29 Jan 2014 4:20 pm
Operator : amym
Sample : mc27893-2ms
Misc : MS31038,MSV1035,,,,5,5
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 19 08:30:23 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140129\
Data File : v27437.d
Acq On : 29 Jan 2014 4:47 pm
Operator : amym
Sample : mc27893-2msd
Misc : MS31038,MSV1035,,,,5,5
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 19 08:31:24 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

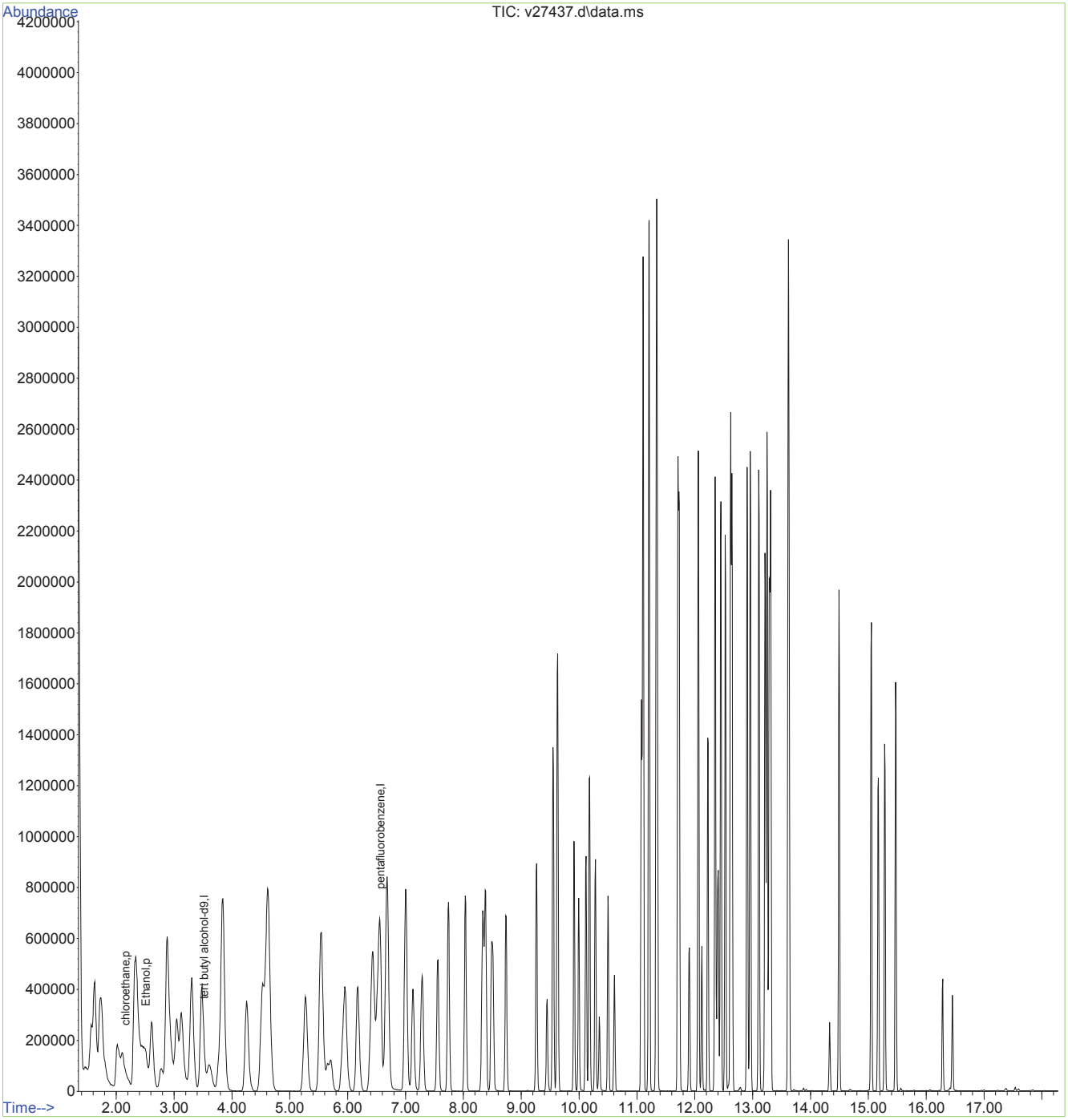
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.518	65	165213	500.00	ug/L	0.00
3) pentafluorobenzene	6.562	168	561722	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.511	45	204126	7737.91	ug/L	# 1
4) chloroethane	2.157	64	252101	58.39	ug/L	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140129\
Data File : v27437.d
Acq On : 29 Jan 2014 4:47 pm
Operator : amym
Sample : mc27893-2msd
Misc : MS31038,MSV1035,,,,5,5
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 19 08:31:24 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Internal Sample Tracking Chronicle

Shell Oil

Job No: MC27828

URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC27828-1 Collected: 22-JAN-14 15:25 By: P56-ROX-012214			Received: 23-JAN-14 By:			
MC27828-1	SW846 8011	29-JAN-14 02:32	CZ	27-JAN-14	TA	V8011SL
MC27828-1	SW846 8270D	29-JAN-14 11:02	KR	28-JAN-14	MD	AB8270SL+
MC27828-1	SW846 8270D BY SIM	29-JAN-14 18:20	KR	28-JAN-14	MD	B8270SIMPAH
MC27828-1	SW846 8260C	29-JAN-14 22:31	AMY			V8260SL+
MC27828-2 Collected: 22-JAN-14 00:00 By: TB-ROX-012214-HCL			Received: 23-JAN-14 By:			
MC27828-2	SW846 8260C	24-JAN-14 13:00	AMY			V8260SL+
MC27828-3 Collected: 22-JAN-14 00:00 By: TB-ROX-012214-ST			Received: 23-JAN-14 By:			
MC27828-3	SW846 8011	29-JAN-14 03:20	CZ	27-JAN-14	TA	V8011SL

SGS Accutest Internal Chain of Custody

Job Number: MC27828
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL
Received: 01/23/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC27828-1.2	Walk In Ref #22	Michael DiBuono	01/24/14 08:24	Retrieve from Storage
MC27828-1.2	Scott Parsick		03/25/14 11:35	Disposed
MC27828-1.3	VOC Ref #3	Amy Min Yang	01/28/14 13:17	Retrieve from Storage
MC27828-1.3	Amy Min Yang	GCMSV	01/28/14 13:17	Load on Instrument
MC27828-1.3	GCMSV	Amy Min Yang	01/29/14 12:54	Unload from Instrument
MC27828-1.3	Amy Min Yang	VOC Ref #3	01/29/14 12:54	Return to Storage
MC27828-1.3	Scott Parsick		03/25/14 11:35	Disposed
MC27828-1.4	VOC Ref #3	Amy Min Yang	01/24/14 09:58	Retrieve from Storage
MC27828-1.4	Amy Min Yang	GCMSV	01/24/14 09:58	Load on Instrument
MC27828-1.4	GCMSV	Amy Min Yang	01/28/14 12:25	Unload from Instrument
MC27828-1.4	Amy Min Yang	VOC Ref #3	01/28/14 12:25	Return to Storage
MC27828-1.4	VOC Ref #3	Amy Min Yang	01/29/14 12:56	Retrieve from Storage
MC27828-1.4	Amy Min Yang	GCMSV	01/29/14 12:56	Load on Instrument
MC27828-1.4	GCMSV	Amy Min Yang	01/30/14 10:05	Unload from Instrument
MC27828-1.4	Amy Min Yang	VOC Ref #3	01/30/14 10:05	Return to Storage
MC27828-1.4	Scott Parsick		03/25/14 11:35	Disposed
MC27828-1.6	VOC Ref #3	Marc Tahtamoni	01/27/14 13:55	Retrieve from Storage
MC27828-1.6	Marc Tahtamoni		02/27/14 22:07	Depleted
MC27828-2.1	VOC Ref #3	Amy Min Yang	01/27/14 14:48	Retrieve from Storage
MC27828-2.1	Amy Min Yang	GCMSV	01/27/14 14:48	Load on Instrument
MC27828-2.1	GCMSV	Amy Min Yang	01/28/14 12:25	Unload from Instrument
MC27828-2.1	Amy Min Yang	VOC Ref #3	01/28/14 12:25	Return to Storage
MC27828-2.1	Scott Parsick		03/25/14 11:35	Disposed
MC27828-2.2	VOC Ref #3	Amy Min Yang	01/24/14 09:58	Retrieve from Storage
MC27828-2.2	Amy Min Yang	GCMSV	01/24/14 09:58	Load on Instrument
MC27828-2.2	GCMSV	Amy Min Yang	01/28/14 12:25	Unload from Instrument
MC27828-2.2	Amy Min Yang	VOC Ref #3	01/28/14 12:25	Return to Storage
MC27828-2.2	Scott Parsick		03/25/14 11:35	Disposed
MC27828-3.2	VOC Ref #3	Marc Tahtamoni	01/27/14 13:55	Retrieve from Storage
MC27828-3.2	Marc Tahtamoni		02/27/14 22:07	Depleted

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC27828
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1031-MB	V27318.D	1	01/24/14	AMY	n/a	n/a	MSV1031

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27828-2

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	

Method Blank Summary

Job Number: MC27828
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1031-MB	V27318.D	1	01/24/14	AMY	n/a	n/a	MSV1031

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27828-2

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
123-91-1	1,4-Dioxane	ND	25	16	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.70	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

Method Blank Summary

Job Number: MC27828
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1031-MB	V27318.D	1	01/24/14	AMY	n/a	n/a	MSV1031

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27828-2

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	108%	70-130%
2037-26-5	Toluene-D8	98%	70-130%
460-00-4	4-Bromofluorobenzene	107%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: MC27828
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1035-MB	V27429.D	1	01/29/14	AMY	n/a	n/a	MSV1035

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27828-1

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	

Method Blank Summary

Job Number: MC27828
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1035-MB	V27429.D	1	01/29/14	AMY	n/a	n/a	MSV1035

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27828-1

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
123-91-1	1,4-Dioxane	ND	25	16	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.70	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

Method Blank Summary

Job Number: MC27828
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1035-MB	V27429.D	1	01/29/14	AMY	n/a	n/a	MSV1035

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27828-1

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	105%	70-130%
2037-26-5	Toluene-D8	98%	70-130%
460-00-4	4-Bromofluorobenzene	103%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC27828
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1031-BS	V27314.D	1	01/24/14	AMY	n/a	n/a	MSV1031
MSV1031-BSD	V27315.D	1	01/24/14	AMY	n/a	n/a	MSV1031

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27828-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50	53.2	106	52.0	104	2	70-130/25
107-02-8	Acrolein	50	78.0	156* [a]	77.6	155* [a]	1	70-130/25
107-13-1	Acrylonitrile	100	99.6	100	101	101	1	70-130/25
71-43-2	Benzene	50	53.8	108	51.6	103	4	70-130/25
108-86-1	Bromobenzene	50	54.1	108	52.6	105	3	70-130/25
74-97-5	Bromochloromethane	50	52.8	106	51.1	102	3	70-130/25
75-27-4	Bromodichloromethane	50	59.6	119	56.4	113	6	70-130/25
75-25-2	Bromoform	50	44.4	89	43.3	87	3	70-130/25
74-83-9	Bromomethane	50	50.3	101	48.5	97	4	70-130/25
78-93-3	2-Butanone (MEK)	50	49.8	100	47.7	95	4	70-130/25
104-51-8	n-Butylbenzene	50	58.4	117	56.1	112	4	70-130/25
135-98-8	sec-Butylbenzene	50	58.6	117	56.7	113	3	70-130/25
98-06-6	tert-Butylbenzene	50	59.6	119	57.1	114	4	70-130/25
75-15-0	Carbon disulfide	50	46.5	93	43.9	88	6	70-130/25
56-23-5	Carbon tetrachloride	50	62.3	125	57.8	116	7	70-130/25
108-90-7	Chlorobenzene	50	46.8	94	45.1	90	4	70-130/25
75-00-3	Chloroethane	50	63.2	126	60.3	121	5	70-130/25
110-75-8	2-Chloroethyl vinyl ether	50	165	330* [a]	136	272* [a]	19	70-130/25
67-66-3	Chloroform	50	53.5	107	50.7	101	5	70-130/25
74-87-3	Chloromethane	50	46.8	94	50.0	100	7	70-130/25
95-49-8	o-Chlorotoluene	50	53.7	107	52.0	104	3	70-130/25
106-43-4	p-Chlorotoluene	50	55.3	111	53.4	107	3	70-130/25
124-48-1	Dibromochloromethane	50	58.3	117	55.8	112	4	70-130/25
95-50-1	1,2-Dichlorobenzene	50	49.8	100	48.5	97	3	70-130/25
541-73-1	1,3-Dichlorobenzene	50	50.5	101	48.8	98	3	70-130/25
106-46-7	1,4-Dichlorobenzene	50	49.9	100	48.9	98	2	70-130/25
75-71-8	Dichlorodifluoromethane	50	46.8	94	45.5	91	3	70-130/25
75-34-3	1,1-Dichloroethane	50	54.7	109	52.4	105	4	70-130/25
107-06-2	1,2-Dichloroethane	50	57.0	114	53.9	108	6	70-130/25
75-35-4	1,1-Dichloroethene	50	52.9	106	50.4	101	5	70-130/25
156-59-2	cis-1,2-Dichloroethene	50	53.4	107	51.3	103	4	70-130/25
156-60-5	trans-1,2-Dichloroethene	50	52.6	105	50.7	101	4	70-130/25
78-87-5	1,2-Dichloropropane	50	52.2	104	50.0	100	4	70-130/25
142-28-9	1,3-Dichloropropane	50	50.3	101	49.6	99	1	70-130/25
594-20-7	2,2-Dichloropropane	50	65.2	130	61.6	123	6	70-130/25
563-58-6	1,1-Dichloropropene	50	55.2	110	52.9	106	4	70-130/25

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC27828
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1031-BS	V27314.D	1	01/24/14	AMY	n/a	n/a	MSV1031
MSV1031-BSD	V27315.D	1	01/24/14	AMY	n/a	n/a	MSV1031

The QC reported here applies to the following samples: Method: SW846 8260C

MC27828-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	50	50.9	102	48.8	98	4	70-130/25
10061-02-6	trans-1,3-Dichloropropene	50	52.8	106	50.8	102	4	70-130/25
123-91-1	1,4-Dioxane	250	225	90	223	89	1	70-130/25
97-63-2	Ethyl methacrylate	50	47.4	95	47.1	94	1	77-137/25
100-41-4	Ethylbenzene	50	54.7	109	51.7	103	6	70-130/25
87-68-3	Hexachlorobutadiene	50	60.1	120	58.5	117	3	70-130/25
591-78-6	2-Hexanone	50	49.8	100	45.4	91	9	70-130/25
98-82-8	Isopropylbenzene	50	60.2	120	57.9	116	4	70-130/25
99-87-6	p-Isopropyltoluene	50	57.4	115	55.5	111	3	70-130/25
1634-04-4	Methyl Tert Butyl Ether	50	57.4	115	56.8	114	1	70-130/25
108-10-1	4-Methyl-2-pentanone (MIBK)	50	53.6	107	54.1	108	1	70-130/25
74-95-3	Methylene bromide	50	53.5	107	51.6	103	4	70-130/25
75-09-2	Methylene chloride	50	48.5	97	47.0	94	3	70-130/25
91-20-3	Naphthalene	50	51.9	104	54.3	109	5	70-130/25
103-65-1	n-Propylbenzene	50	58.1	116	56.0	112	4	70-130/25
100-42-5	Styrene	50	49.4	99	47.2	94	5	70-130/25
630-20-6	1,1,1,2-Tetrachloroethane	50	54.7	109	52.0	104	5	70-130/25
79-34-5	1,1,2,2-Tetrachloroethane	50	50.9	102	50.9	102	0	70-130/25
127-18-4	Tetrachloroethene	50	54.4	109	51.7	103	5	70-130/25
108-88-3	Toluene	50	57.0	114	53.9	108	6	70-130/25
87-61-6	1,2,3-Trichlorobenzene	50	59.8	120	61.6	123	3	70-130/25
120-82-1	1,2,4-Trichlorobenzene	50	60.9	122	60.9	122	0	70-130/25
71-55-6	1,1,1-Trichloroethane	50	60.0	120	57.1	114	5	70-130/25
79-00-5	1,1,2-Trichloroethane	50	52.3	105	50.6	101	3	70-130/25
79-01-6	Trichloroethene	50	55.9	112	53.3	107	5	70-130/25
75-69-4	Trichlorofluoromethane	50	60.9	122	57.0	114	7	70-130/25
96-18-4	1,2,3-Trichloropropane	50	55.0	110	54.8	110	0	70-130/25
95-63-6	1,2,4-Trimethylbenzene	50	58.7	117	56.5	113	4	70-130/25
108-67-8	1,3,5-Trimethylbenzene	50	60.1	120	57.6	115	4	70-130/25
108-05-4	Vinyl Acetate	50	54.2	108	53.6	107	1	70-130/25
75-01-4	Vinyl chloride	50	45.8	92	44.7	89	2	70-130/25
	m,p-Xylene	100	90.6	91	85.6	86	6	70-130/25
95-47-6	o-Xylene	50	45.8	92	43.4	87	5	70-130/25
1330-20-7	Xylene (total)	150	136	91	129	86	5	70-130/25

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC27828
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1031-BS	V27314.D	1	01/24/14	AMY	n/a	n/a	MSV1031
MSV1031-BSD	V27315.D	1	01/24/14	AMY	n/a	n/a	MSV1031

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27828-2

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	98%	97%	70-130%
2037-26-5	Toluene-D8	100%	99%	70-130%
460-00-4	4-Bromofluorobenzene	100%	101%	70-130%

(a) Outside control limits. Associated samples are non-detect for this compound.

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC27828
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1035-BS	V27425.D	1	01/29/14	AMY	n/a	n/a	MSV1035
MSV1035-BSD	V27426.D	1	01/29/14	AMY	n/a	n/a	MSV1035

The QC reported here applies to the following samples: Method: SW846 8260C

MC27828-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50	38.8	78	43.1	86	11	70-130/25
107-02-8	Acrolein	50	79.3	159* a	87.7	175* a	10	70-130/25
107-13-1	Acrylonitrile	100	98.8	99	109	109	10	70-130/25
71-43-2	Benzene	50	53.0	106	53.2	106	0	70-130/25
108-86-1	Bromobenzene	50	52.9	106	53.1	106	0	70-130/25
74-97-5	Bromochloromethane	50	52.7	105	54.1	108	3	70-130/25
75-27-4	Bromodichloromethane	50	56.5	113	56.5	113	0	70-130/25
75-25-2	Bromoform	50	42.0	84	43.9	88	4	70-130/25
74-83-9	Bromomethane	50	49.2	98	49.4	99	0	70-130/25
78-93-3	2-Butanone (MEK)	50	40.4	81	42.1	84	4	70-130/25
104-51-8	n-Butylbenzene	50	56.8	114	56.8	114	0	70-130/25
135-98-8	sec-Butylbenzene	50	57.7	115	57.4	115	1	70-130/25
98-06-6	tert-Butylbenzene	50	58.1	116	56.9	114	2	70-130/25
75-15-0	Carbon disulfide	50	44.9	90	46.2	92	3	70-130/25
56-23-5	Carbon tetrachloride	50	56.8	114	56.9	114	0	70-130/25
108-90-7	Chlorobenzene	50	45.9	92	46.4	93	1	70-130/25
75-00-3	Chloroethane	50	61.7	123	62.3	125	1	70-130/25
110-75-8	2-Chloroethyl vinyl ether	50	239	478* a	411	822* a	53* a	70-130/25
67-66-3	Chloroform	50	51.9	104	52.3	105	1	70-130/25
74-87-3	Chloromethane	50	46.8	94	47.9	96	2	70-130/25
95-49-8	o-Chlorotoluene	50	52.7	105	52.6	105	0	70-130/25
106-43-4	p-Chlorotoluene	50	53.3	107	53.4	107	0	70-130/25
124-48-1	Dibromochloromethane	50	54.8	110	56.3	113	3	70-130/25
95-50-1	1,2-Dichlorobenzene	50	48.2	96	49.2	98	2	70-130/25
541-73-1	1,3-Dichlorobenzene	50	49.4	99	49.8	100	1	70-130/25
106-46-7	1,4-Dichlorobenzene	50	48.6	97	49.1	98	1	70-130/25
75-71-8	Dichlorodifluoromethane	50	39.8	80	41.2	82	3	70-130/25
75-34-3	1,1-Dichloroethane	50	53.5	107	54.8	110	2	70-130/25
107-06-2	1,2-Dichloroethane	50	51.9	104	52.7	105	2	70-130/25
75-35-4	1,1-Dichloroethene	50	51.9	104	53.9	108	4	70-130/25
156-59-2	cis-1,2-Dichloroethene	50	53.6	107	54.9	110	2	70-130/25
156-60-5	trans-1,2-Dichloroethene	50	52.4	105	53.5	107	2	70-130/25
78-87-5	1,2-Dichloropropane	50	51.6	103	51.8	104	0	70-130/25
142-28-9	1,3-Dichloropropane	50	48.9	98	50.3	101	3	70-130/25
594-20-7	2,2-Dichloropropane	50	63.7	127	64.7	129	2	70-130/25
563-58-6	1,1-Dichloropropene	50	53.0	106	53.1	106	0	70-130/25

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC27828
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1035-BS	V27425.D	1	01/29/14	AMY	n/a	n/a	MSV1035
MSV1035-BSD	V27426.D	1	01/29/14	AMY	n/a	n/a	MSV1035

The QC reported here applies to the following samples: Method: SW846 8260C

MC27828-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	50	49.0	98	49.8	100	2	70-130/25
10061-02-6	trans-1,3-Dichloropropene	50	50.2	100	51.2	102	2	70-130/25
123-91-1	1,4-Dioxane	250	214	86	246	98	14	70-130/25
97-63-2	Ethyl methacrylate	50	46.0	92	49.4	99	7	77-137/25
100-41-4	Ethylbenzene	50	53.4	107	53.1	106	1	70-130/25
87-68-3	Hexachlorobutadiene	50	56.5	113	57.2	114	1	70-130/25
591-78-6	2-Hexanone	50	38.0	76	41.7	83	9	70-130/25
98-82-8	Isopropylbenzene	50	59.3	119	58.6	117	1	70-130/25
99-87-6	p-Isopropyltoluene	50	55.7	111	55.8	112	0	70-130/25
1634-04-4	Methyl Tert Butyl Ether	50	56.6	113	61.5	123	8	70-130/25
108-10-1	4-Methyl-2-pentanone (MIBK)	50	50.7	101	57.0	114	12	70-130/25
74-95-3	Methylene bromide	50	50.8	102	52.4	105	3	70-130/25
75-09-2	Methylene chloride	50	49.5	99	50.5	101	2	70-130/25
91-20-3	Naphthalene	50	50.5	101	59.7	119	17	70-130/25
103-65-1	n-Propylbenzene	50	56.2	112	56.3	113	0	70-130/25
100-42-5	Styrene	50	48.7	97	49.1	98	1	70-130/25
630-20-6	1,1,1,2-Tetrachloroethane	50	53.0	106	52.9	106	0	70-130/25
79-34-5	1,1,2,2-Tetrachloroethane	50	48.9	98	52.8	106	8	70-130/25
127-18-4	Tetrachloroethene	50	52.7	105	52.5	105	0	70-130/25
108-88-3	Toluene	50	55.8	112	55.8	112	0	70-130/25
87-61-6	1,2,3-Trichlorobenzene	50	56.8	114	64.2	128	12	70-130/25
120-82-1	1,2,4-Trichlorobenzene	50	58.7	117	63.8	128	8	70-130/25
71-55-6	1,1,1-Trichloroethane	50	58.2	116	58.6	117	1	70-130/25
79-00-5	1,1,2-Trichloroethane	50	50.4	101	52.6	105	4	70-130/25
79-01-6	Trichloroethene	50	54.5	109	54.0	108	1	70-130/25
75-69-4	Trichlorofluoromethane	50	55.9	112	57.2	114	2	70-130/25
96-18-4	1,2,3-Trichloropropane	50	52.0	104	56.1	112	8	70-130/25
95-63-6	1,2,4-Trimethylbenzene	50	57.3	115	57.1	114	0	70-130/25
108-67-8	1,3,5-Trimethylbenzene	50	58.5	117	58.1	116	1	70-130/25
108-05-4	Vinyl Acetate	50	53.3	107	55.6	111	4	70-130/25
75-01-4	Vinyl chloride	50	45.2	90	46.2	92	2	70-130/25
	m,p-Xylene	100	89.4	89	89.0	89	0	70-130/25
95-47-6	o-Xylene	50	45.0	90	44.8	90	0	70-130/25
1330-20-7	Xylene (total)	150	134	89	134	89	0	70-130/25

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC27828
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1035-BS	V27425.D	1	01/29/14	AMY	n/a	n/a	MSV1035
MSV1035-BSD	V27426.D	1	01/29/14	AMY	n/a	n/a	MSV1035

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27828-1

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	98%	98%	70-130%
2037-26-5	Toluene-D8	99%	99%	70-130%
460-00-4	4-Bromofluorobenzene	101%	100%	70-130%

(a) Outside control limits. Associated samples are non-detect for this compound.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27828
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC27829-1MS	V27325.D	5	01/24/14	AMY	n/a	n/a	MSV1031
MC27829-1MSD	V27326.D	5	01/24/14	AMY	n/a	n/a	MSV1031
MC27829-1	V27322.D	1	01/24/14	AMY	n/a	n/a	MSV1031

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27828-2

CAS No.	Compound	MC27829-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		250	157	63* [a]	250	151	60* [a]	4	70-130/30
107-02-8	Acrolein	ND		250	359	144* [a]	250	352	141* [a]	2	70-130/30
107-13-1	Acrylonitrile	ND		500	530	106	500	522	104	2	70-130/30
71-43-2	Benzene	ND		250	281	112	250	270	108	4	70-130/30
108-86-1	Bromobenzene	ND		250	275	110	250	277	111	1	70-130/30
74-97-5	Bromochloromethane	ND		250	270	108	250	268	107	1	70-130/30
75-27-4	Bromodichloromethane	ND		250	293	117	250	285	114	3	70-130/30
75-25-2	Bromoform	ND		250	225	90	250	225	90	0	70-130/30
74-83-9	Bromomethane	ND		250	249	100	250	234	94	6	70-130/30
78-93-3	2-Butanone (MEK)	ND		250	188	75	250	194	78	3	70-130/30
104-51-8	n-Butylbenzene	ND		250	298	119	250	298	119	0	70-130/30
135-98-8	sec-Butylbenzene	ND		250	303	121	250	301	120	1	70-130/30
98-06-6	tert-Butylbenzene	ND		250	302	121	250	298	119	1	70-130/30
75-15-0	Carbon disulfide	ND		250	247	99	250	235	94	5	70-130/30
56-23-5	Carbon tetrachloride	ND		250	309	124	250	296	118	4	70-130/30
108-90-7	Chlorobenzene	ND		250	240	96	250	233	93	3	70-130/30
75-00-3	Chloroethane	ND		250	314	126	250	291	116	8	70-130/30
110-75-8	2-Chloroethyl vinyl ether	ND		250	13.2	5* [a]	250	ND	0* [a]	200* [b]	70-130/30
67-66-3	Chloroform	ND		250	269	108	250	261	104	3	70-130/30
74-87-3	Chloromethane	ND		250	268	107	250	252	101	6	70-130/30
95-49-8	o-Chlorotoluene	ND		250	274	110	250	273	109	0	70-130/30
106-43-4	p-Chlorotoluene	ND		250	283	113	250	278	111	2	70-130/30
124-48-1	Dibromochloromethane	ND		250	296	118	250	289	116	2	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		250	251	100	250	254	102	1	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		250	260	104	250	259	104	0	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		250	256	102	250	256	102	0	70-130/30
75-71-8	Dichlorodifluoromethane	ND		250	271	108	250	252	101	7	70-130/30
75-34-3	1,1-Dichloroethane	ND		250	284	114	250	272	109	4	70-130/30
107-06-2	1,2-Dichloroethane	ND		250	278	111	250	270	108	3	70-130/30
75-35-4	1,1-Dichloroethene	ND		250	289	116	250	275	110	5	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		250	277	111	250	269	108	3	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		250	282	113	250	267	107	5	70-130/30
78-87-5	1,2-Dichloropropane	ND		250	269	108	250	259	104	4	70-130/30
142-28-9	1,3-Dichloropropane	ND		250	264	106	250	259	104	2	70-130/30
594-20-7	2,2-Dichloropropane	ND		250	320	128	250	327	131* [a]	2	70-130/30
563-58-6	1,1-Dichloropropene	ND		250	289	116	250	277	111	4	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27828
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC27829-1MS	V27325.D	5	01/24/14	AMY	n/a	n/a	MSV1031
MC27829-1MSD	V27326.D	5	01/24/14	AMY	n/a	n/a	MSV1031
MC27829-1	V27322.D	1	01/24/14	AMY	n/a	n/a	MSV1031

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27828-2

CAS No.	Compound	MC27829-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		250	246	98	250	247	99	0	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		250	265	106	250	262	105	1	70-130/30
123-91-1	1,4-Dioxane	ND		1250	1240	99	1250	1370	110	10	70-130/30
97-63-2	Ethyl methacrylate	ND		250	244	98	250	249	100	2	72-139/30
100-41-4	Ethylbenzene	ND		250	280	112	250	270	108	4	70-130/30
87-68-3	Hexachlorobutadiene	ND		250	290	116	250	309	124	6	70-130/30
591-78-6	2-Hexanone	ND		250	194	78	250	200	80	3	70-130/30
98-82-8	Isopropylbenzene	ND		250	310	124	250	307	123	1	70-130/30
99-87-6	p-Isopropyltoluene	ND		250	294	118	250	293	117	0	70-130/30
1634-04-4	Methyl Tert Butyl Ether	3.4		250	297	117	250	303	120	2	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	276	110	250	285	114	3	70-130/30
74-95-3	Methylene bromide	ND		250	269	108	250	266	106	1	70-130/30
75-09-2	Methylene chloride	ND		250	261	104	250	251	100	4	70-130/30
91-20-3	Naphthalene	ND		250	243	97	250	288	115	17	70-130/30
103-65-1	n-Propylbenzene	ND		250	294	118	250	293	117	0	70-130/30
100-42-5	Styrene	ND		250	255	102	250	246	98	4	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		250	275	110	250	271	108	1	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	260	104	250	271	108	4	70-130/30
127-18-4	Tetrachloroethene	ND		250	280	112	250	271	108	3	70-130/30
108-88-3	Toluene	ND		250	287	115	250	283	113	1	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		250	271	108	250	314	126	15	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		250	297	119	250	321	128	8	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		250	300	120	250	297	119	1	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		250	263	105	250	263	105	0	70-130/30
79-01-6	Trichloroethene	ND		250	284	114	250	275	110	3	70-130/30
75-69-4	Trichlorofluoromethane	ND		250	297	119	250	276	110	7	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		250	283	113	250	290	116	2	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		250	297	119	250	296	118	0	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		250	306	122	250	303	121	1	70-130/30
108-05-4	Vinyl Acetate	ND		250	283	113	250	278	111	2	70-130/30
75-01-4	Vinyl chloride	ND		250	237	95	250	222	89	7	70-130/30
	m,p-Xylene	ND		500	464	93	500	446	89	4	70-130/30
95-47-6	o-Xylene	ND		250	232	93	250	225	90	3	70-130/30
1330-20-7	Xylene (total)	ND		750	696	93	750	671	89	4	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27828
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC27829-1MS	V27325.D	5	01/24/14	AMY	n/a	n/a	MSV1031
MC27829-1MSD	V27326.D	5	01/24/14	AMY	n/a	n/a	MSV1031
MC27829-1	V27322.D	1	01/24/14	AMY	n/a	n/a	MSV1031

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27828-2

CAS No.	Surrogate Recoveries	MS	MSD	MC27829-1	Limits
1868-53-7	Dibromofluoromethane	98%	97%	113%	70-130%
2037-26-5	Toluene-D8	98%	98%	98%	70-130%
460-00-4	4-Bromofluorobenzene	100%	102%	105%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.
(b) High RPD due to possible matrix interference and/or sample non-homogeneity.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27828
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC27893-2MS	V27436.D	5	01/29/14	AMY	n/a	n/a	MSV1035
MC27893-2MSD	V27437.D	5	01/29/14	AMY	n/a	n/a	MSV1035
MC27893-2	V27432.D	1	01/29/14	AMY	n/a	n/a	MSV1035

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27828-1

CAS No.	Compound	MC27893-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		250	143	57* [a]	250	151	60* [a]	5	70-130/30
107-02-8	Acrolein	ND		250	339	136* [a]	250	339	136* [a]	0	70-130/30
107-13-1	Acrylonitrile	ND		500	515	103	500	503	101	2	70-130/30
71-43-2	Benzene	ND		250	280	112	250	277	111	1	70-130/30
108-86-1	Bromobenzene	ND		250	278	111	250	277	111	0	70-130/30
74-97-5	Bromochloromethane	ND		250	275	110	250	276	110	0	70-130/30
75-27-4	Bromodichloromethane	ND		250	292	117	250	289	116	1	70-130/30
75-25-2	Bromoform	ND		250	222	89	250	215	86	3	70-130/30
74-83-9	Bromomethane	ND		250	239	96	250	234	94	2	70-130/30
78-93-3	2-Butanone (MEK)	ND		250	189	76	250	189	76	0	70-130/30
104-51-8	n-Butylbenzene	ND		250	297	119	250	296	118	0	70-130/30
135-98-8	sec-Butylbenzene	ND		250	305	122	250	305	122	0	70-130/30
98-06-6	tert-Butylbenzene	ND		250	300	120	250	300	120	0	70-130/30
75-15-0	Carbon disulfide	ND		250	223	89	250	227	91	2	70-130/30
56-23-5	Carbon tetrachloride	ND		250	300	120	250	290	116	3	70-130/30
108-90-7	Chlorobenzene	ND		250	242	97	250	239	96	1	70-130/30
75-00-3	Chloroethane	ND		250	302	121	250	292	117	3	70-130/30
110-75-8	2-Chloroethyl vinyl ether	ND		250	202	81	250	13.9	6* [a]	174* [b]	70-130/30
67-66-3	Chloroform	ND		250	272	109	250	265	106	3	70-130/30
74-87-3	Chloromethane	ND		250	239	96	250	240	96	0	70-130/30
95-49-8	o-Chlorotoluene	ND		250	275	110	250	274	110	0	70-130/30
106-43-4	p-Chlorotoluene	ND		250	281	112	250	279	112	1	70-130/30
124-48-1	Dibromochloromethane	ND		250	290	116	250	285	114	2	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		250	254	102	250	253	101	0	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		250	259	104	250	258	103	0	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		250	256	102	250	255	102	0	70-130/30
75-71-8	Dichlorodifluoromethane	ND		250	225	90	250	216	86	4	70-130/30
75-34-3	1,1-Dichloroethane	ND		250	282	113	250	276	110	2	70-130/30
107-06-2	1,2-Dichloroethane	ND		250	272	109	250	263	105	3	70-130/30
75-35-4	1,1-Dichloroethene	ND		250	277	111	250	274	110	1	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		250	284	114	250	283	113	0	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		250	278	111	250	275	110	1	70-130/30
78-87-5	1,2-Dichloropropane	ND		250	272	109	250	272	109	0	70-130/30
142-28-9	1,3-Dichloropropane	ND		250	261	104	250	257	103	2	70-130/30
594-20-7	2,2-Dichloropropane	ND		250	339	136* [a]	250	321	128	5	70-130/30
563-58-6	1,1-Dichloropropene	ND		250	284	114	250	276	110	3	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27828
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC27893-2MS	V27436.D	5	01/29/14	AMY	n/a	n/a	MSV1035
MC27893-2MSD	V27437.D	5	01/29/14	AMY	n/a	n/a	MSV1035
MC27893-2	V27432.D	1	01/29/14	AMY	n/a	n/a	MSV1035

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27828-1

CAS No.	Compound	MC27893-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		250	254	102	250	253	101	0	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		250	265	106	250	263	105	1	70-130/30
123-91-1	1,4-Dioxane	ND		1250	945	76	1250	1090	87	14	70-130/30
97-63-2	Ethyl methacrylate	ND		250	254	102	250	246	98	3	72-139/30
100-41-4	Ethylbenzene	ND		250	281	112	250	275	110	2	70-130/30
87-68-3	Hexachlorobutadiene	ND		250	287	115	250	295	118	3	70-130/30
591-78-6	2-Hexanone	ND		250	201	80	250	189	76	6	70-130/30
98-82-8	Isopropylbenzene	ND		250	309	124	250	309	124	0	70-130/30
99-87-6	p-Isopropyltoluene	ND		250	295	118	250	293	117	1	70-130/30
1634-04-4	Methyl Tert Butyl Ether	4.7		250	297	117	250	286	113	4	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	286	114	250	270	108	6	70-130/30
74-95-3	Methylene bromide	ND		250	270	108	250	262	105	3	70-130/30
75-09-2	Methylene chloride	ND		250	259	104	250	254	102	2	70-130/30
91-20-3	Naphthalene	ND		250	262	105	250	261	104	0	70-130/30
103-65-1	n-Propylbenzene	ND		250	295	118	250	295	118	0	70-130/30
100-42-5	Styrene	ND		250	258	103	250	253	101	2	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		250	277	111	250	269	108	3	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	268	107	250	259	104	3	70-130/30
127-18-4	Tetrachloroethene	ND		250	277	111	250	275	110	1	70-130/30
108-88-3	Toluene	ND		250	292	117	250	292	117	0	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		250	285	114	250	292	117	2	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		250	312	125	250	312	125	0	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		250	301	120	250	294	118	2	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		250	268	107	250	266	106	1	70-130/30
79-01-6	Trichloroethene	ND		250	285	114	250	281	112	1	70-130/30
75-69-4	Trichlorofluoromethane	ND		250	283	113	250	267	107	6	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		250	281	112	250	273	109	3	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		250	296	118	250	297	119	0	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		250	303	121	250	300	120	1	70-130/30
108-05-4	Vinyl Acetate	ND		250	285	114	250	275	110	4	70-130/30
75-01-4	Vinyl chloride	ND		250	223	89	250	219	88	2	70-130/30
	m,p-Xylene	ND		500	465	93	500	463	93	0	70-130/30
95-47-6	o-Xylene	ND		250	234	94	250	232	93	1	70-130/30
1330-20-7	Xylene (total)	ND		750	699	93	750	695	93	1	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27828
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC27893-2MS	V27436.D	5	01/29/14	AMY	n/a	n/a	MSV1035
MC27893-2MSD	V27437.D	5	01/29/14	AMY	n/a	n/a	MSV1035
MC27893-2	V27432.D	1	01/29/14	AMY	n/a	n/a	MSV1035

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27828-1

CAS No.	Surrogate Recoveries	MS	MSD	MC27893-2	Limits
1868-53-7	Dibromofluoromethane	97%	95%	107%	70-130%
2037-26-5	Toluene-D8	99%	98%	98%	70-130%
460-00-4	4-Bromofluorobenzene	100%	100%	106%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.
(b) High RPD due to possible matrix interference and/or sample non-homogeneity.

* = Outside of Control Limits.

Volatile Internal Standard Area Summary

Job Number: MC27828
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSV1031-CC1019	**Injection Date:**	01/24/14
Lab File ID:	V27313.D	**Injection Time:**	08:49
Instrument ID:	GCMSV	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	514555	6.54	649008	7.73	368930	11.07	399338	13.28	144720	3.50
Upper Limit [a]	1029110	7.04	1298016	8.23	737860	11.57	798676	13.78	289440	4.00
Lower Limit [b]	257278	6.04	324504	7.23	184465	10.57	199669	12.78	72360	3.00

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSV1031-BS	493633	6.55	615759	7.73	344000	11.07	372785	13.28	150270	3.50
MSV1031-BSD	515634	6.55	645718	7.73	360171	11.07	382453	13.28	169311	3.51
MSV1031-MB	409590	6.55	549727	7.73	310692	11.07	296536	13.28	146752	3.51
ZZZZZZ	465185	6.55	615292	7.73	328422	11.07	305105	13.28	165947	3.51
ZZZZZZ	382298	6.55	516464	7.73	296517	11.07	278875	13.28	147902	3.51
MC27828-2	358636	6.55	488426	7.73	282817	11.07	267668	13.28	139379	3.51
MC27829-1	358730	6.55	493803	7.73	280267	11.07	267145	13.28	140826	3.50
ZZZZZZ	538140	6.55	665906	7.73	358815	11.07	354233	13.28	369025*	3.52
ZZZZZZ	462042	6.56	612436	7.74	331313	11.07	321319	13.28	187463	3.51
MC27829-1MS	586652	6.55	731898	7.73	398647	11.07	428955	13.28	199654	3.51
MC27829-1MSD	571210	6.55	724852	7.73	400395	11.07	419874	13.28	200678	3.50
ZZZZZZ	468218	6.56	625109	7.74	344807	11.07	338585	13.28	173327	3.51

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: MC27828
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSV1035-CC1019	**Injection Date:**	01/29/14
Lab File ID:	V27424.D	**Injection Time:**	11:03
Instrument ID:	GCMSV	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	530361	6.56	676996	7.74	381897	11.08	412049	13.29	173284	3.52
Upper Limit [a]	1060722	7.06	1353992	8.24	763794	11.58	824098	13.79	346568	4.02
Lower Limit [b]	265181	6.06	338498	7.24	190949	10.58	206025	12.79	86642	3.02

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSV1035-BS	543620	6.56	698899	7.74	385229	11.08	415808	13.29	165753	3.52
MSV1035-BSD	544877	6.56	697958	7.74	387523	11.08	419770	13.29	199457	3.53
MSV1035-MB	439388	6.56	600006	7.74	340247	11.08	328346	13.29	137712	3.52
ZZZZZZ	435813	6.56	595677	7.74	339748	11.08	336170	13.29	155436	3.52
ZZZZZZ	447783	6.57	615156	7.75	352447	11.08	339571	13.29	166997	3.52
MC27893-2	416411	6.56	567728	7.74	323053	11.08	309090	13.29	143137	3.52
ZZZZZZ	450714	6.56	575104	7.74	328234	11.08	306607	13.29	125183	3.52
ZZZZZZ	387492	6.57	531510	7.74	327736	11.08	340545	13.29	114614	3.63
MC27893-2MS	553229	6.57	706986	7.75	390728	11.08	422135	13.29	166769	3.54
MC27893-2MSD	561722	6.56	714234	7.74	397041	11.08	423876	13.29	165213	3.52
ZZZZZZ	512071	6.56	678048	7.74	374522	11.08	373728	13.29	180425	3.52
ZZZZZZ	541592	6.56	700736	7.74	388660	11.08	394843	13.29	194943	3.52
ZZZZZZ	521235	6.56	709489	7.74	393174	11.07	394263	13.29	191620	3.52
ZZZZZZ	480517	6.56	650363	7.74	362801	11.07	360914	13.29	161482	3.51
ZZZZZZ	470840	6.56	634308	7.74	356556	11.07	357392	13.29	148282	3.51
ZZZZZZ	462841	6.56	622948	7.73	369659	11.07	364360	13.29	167695	3.52
ZZZZZZ	469582	6.56	638033	7.74	359318	11.07	352593	13.29	172235	3.52
ZZZZZZ	457675	6.56	621354	7.74	349693	11.07	339227	13.28	162192	3.52
ZZZZZZ	458341	6.56	629981	7.74	353869	11.07	342808	13.28	147617	3.52
ZZZZZZ	462135	6.56	593543	7.73	330879	11.07	319685	13.28	141918	3.52
ZZZZZZ	429912	6.55	572799	7.73	331465	11.07	330214	13.28	145970	3.51
ZZZZZZ	418182	6.56	564553	7.73	320747	11.07	313699	13.28	156276	3.52
MC27828-1	515940	6.55	647579	7.73	368659	11.07	371185	13.28	224455	3.51
ZZZZZZ	487681	6.55	641392	7.74	360941	11.07	365688	13.28	143154	3.51

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: MC27828
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Method: SW846 8260C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC27828-1	V27450.D	92	99	107
MC27828-2	V27321.D	113	99	105
MC27829-1MS	V27325.D	98	98	100
MC27829-1MSD	V27326.D	97	98	102
MC27893-2MS	V27436.D	97	99	100
MC27893-2MSD	V27437.D	95	98	100
MSV1031-BS	V27314.D	98	100	100
MSV1031-BSD	V27315.D	97	99	101
MSV1031-MB	V27318.D	108	98	107
MSV1035-BS	V27425.D	98	99	101
MSV1035-BSD	V27426.D	98	99	100
MSV1035-MB	V27429.D	105	98	103

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	70-130%
S2 = Toluene-D8	70-130%
S3 = 4-Bromofluorobenzene	70-130%

GC/MS Semi-volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC27828
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36652-MB	W17428.D	1	01/29/14	KR	01/28/14	OP36652	MSW766

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC27828-1

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.38	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.49	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.33	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	ND	10	1.3	ug/l	
	3&4-Methylphenol	ND	10	2.0	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.50	ug/l	
100-02-7	4-Nitrophenol	ND	20	0.58	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	ND	5.0	0.51	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.57	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.32	ug/l	
62-53-3	Aniline	ND	10	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.20	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.85	ug/l	
100-51-6	Benzyl Alcohol	ND	10	0.57	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.92	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.25	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.21	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.23	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.13	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.20	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.65	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.68	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.64	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.50	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.39	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	0.43	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	0.50	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.50	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.49	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.30	ug/l	

Method Blank Summary

Job Number: MC27828
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36652-MB	W17428.D	1	01/29/14	KR	01/28/14	OP36652	MSW766

The QC reported here applies to the following samples: Method: SW846 8270D

MC27828-1

CAS No.	Compound	Result	RL	MDL	Units	Q
77-47-4	Hexachlorocyclopentadiene	ND	10	2.5	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.44	ug/l	
78-59-1	Isophorone	ND	5.0	0.20	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.50	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.3	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.25	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.0	0.50	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.81	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.54	ug/l	
110-86-1	Pyridine	ND	10	0.52	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	35%	15-110%
4165-62-2	Phenol-d5	23%	15-110%
118-79-6	2,4,6-Tribromophenol	77%	15-110%
4165-60-0	Nitrobenzene-d5	49%	30-130%
321-60-8	2-Fluorobiphenyl	50%	30-130%
1718-51-0	Terphenyl-d14	98%	30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

Method Blank Summary

Job Number: MC27828
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36653-MB	R36826.D	1	01/29/14	KR	01/28/14	OP36653	MSR1358

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

MC27828-1

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.069	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.050	ug/l	
120-12-7	Anthracene	ND	0.10	0.092	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	0.020	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.029	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	0.032	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.037	0.10	0.027	ug/l	J
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.039	ug/l	
218-01-9	Chrysene	ND	0.10	0.024	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.032	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.041	ug/l	
86-73-7	Fluorene	ND	0.10	0.099	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.031	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.20	0.050	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.20	0.074	ug/l	
85-01-8	Phenanthrene	ND	0.050	0.013	ug/l	
129-00-0	Pyrene	ND	0.10	0.038	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	61%	30-130%
321-60-8	2-Fluorobiphenyl	49%	30-130%
1718-51-0	Terphenyl-d14	85%	30-130%

Blank Spike Summary

Job Number: MC27828
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36652-BS	W17429.D	1	01/29/14	KR	01/28/14	OP36652	MSW766

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC27828-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	50	21.1	42	30-130
95-57-8	2-Chlorophenol	50	39.5	79	30-130
59-50-7	4-Chloro-3-methyl phenol	50	39.1	78	30-130
120-83-2	2,4-Dichlorophenol	50	40.6	81	30-130
105-67-9	2,4-Dimethylphenol	50	35.8	72	30-130
51-28-5	2,4-Dinitrophenol	50	35.1	70	30-130
534-52-1	4,6-Dinitro-o-cresol	50	47.5	95	30-130
95-48-7	2-Methylphenol	50	34.5	69	30-130
	3&4-Methylphenol	100	62.0	62	30-130
88-75-5	2-Nitrophenol	50	42.5	85	30-130
100-02-7	4-Nitrophenol	50	15.7	31	30-130
87-86-5	Pentachlorophenol	50	41.6	83	30-130
108-95-2	Phenol	50	17.8	36	30-130
95-95-4	2,4,5-Trichlorophenol	50	40.2	80	30-130
88-06-2	2,4,6-Trichlorophenol	50	40.9	82	30-130
62-53-3	Aniline	50	25.7	51	40-140
101-55-3	4-Bromophenyl phenyl ether	50	54.9	110	40-140
85-68-7	Butyl benzyl phthalate	50	46.4	93	40-140
100-51-6	Benzyl Alcohol	50	37.4	75	40-140
91-58-7	2-Chloronaphthalene	50	39.8	80	40-140
106-47-8	4-Chloroaniline	50	38.0	76	40-140
111-91-1	bis(2-Chloroethoxy)methane	50	34.1	68	40-140
111-44-4	bis(2-Chloroethyl)ether	50	45.5	91	40-140
108-60-1	bis(2-Chloroisopropyl)ether	50	92.2	184* [a]	40-140
7005-72-3	4-Chlorophenyl phenyl ether	50	46.6	93	40-140
122-66-7	1,2-Diphenylhydrazine	50	44.1	88	40-140
121-14-2	2,4-Dinitrotoluene	50	45.3	91	40-140
606-20-2	2,6-Dinitrotoluene	50	43.3	87	40-140
91-94-1	3,3'-Dichlorobenzidine	50	40.8	82	40-140
132-64-9	Dibenzofuran	50	42.7	85	40-140
84-74-2	Di-n-butyl phthalate	50	42.0	84	40-140
117-84-0	Di-n-octyl phthalate	50	45.5	91	40-140
84-66-2	Diethyl phthalate	50	42.0	84	40-140
131-11-3	Dimethyl phthalate	50	39.2	78	40-140
117-81-7	bis(2-Ethylhexyl)phthalate	50	48.7	97	40-140
118-74-1	Hexachlorobenzene	50	56.3	113	40-140

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC27828
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36652-BS	W17429.D	1	01/29/14	KR	01/28/14	OP36652	MSW766

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC27828-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
77-47-4	Hexachlorocyclopentadiene	50	57.3	115	40-140
67-72-1	Hexachloroethane	50	26.6	53	40-140
78-59-1	Isophorone	50	41.9	84	40-140
88-74-4	2-Nitroaniline	50	43.7	87	40-140
99-09-2	3-Nitroaniline	50	41.0	82	40-140
100-01-6	4-Nitroaniline	50	42.5	85	40-140
98-95-3	Nitrobenzene	50	40.3	81	40-140
62-75-9	n-Nitrosodimethylamine	50	33.6	67	40-140
621-64-7	N-Nitroso-di-n-propylamine	50	41.7	83	40-140
86-30-6	N-Nitrosodiphenylamine	50	43.5	87	40-140
110-86-1	Pyridine	50	27.7	55	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	50%	15-110%
4165-62-2	Phenol-d5	33%	15-110%
118-79-6	2,4,6-Tribromophenol	108%	15-110%
4165-60-0	Nitrobenzene-d5	71%	30-130%
321-60-8	2-Fluorobiphenyl	68%	30-130%
1718-51-0	Terphenyl-d14	99%	30-130%

(a) Outside control limits. Associated samples are non-detect for this compound.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC27828
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36653-BS	R36827.D	1	01/29/14	KR	01/28/14	OP36653	MSR1358

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

MC27828-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	50	48.1	96	40-140
208-96-8	Acenaphthylene	50	37.8	76	40-140
120-12-7	Anthracene	50	51.3	103	40-140
56-55-3	Benzo(a)anthracene	50	63.0	126	40-140
50-32-8	Benzo(a)pyrene	50	46.7	93	40-140
205-99-2	Benzo(b)fluoranthene	50	51.7	103	40-140
191-24-2	Benzo(g,h,i)perylene	50	54.1	108	40-140
207-08-9	Benzo(k)fluoranthene	50	53.4	107	40-140
218-01-9	Chrysene	50	56.0	112	40-140
53-70-3	Dibenzo(a,h)anthracene	50	56.5	113	40-140
206-44-0	Fluoranthene	50	57.5	115	40-140
86-73-7	Fluorene	50	51.0	102	40-140
193-39-5	Indeno(1,2,3-cd)pyrene	50	55.9	112	40-140
90-12-0	1-Methylnaphthalene	50	41.4	83	40-140
91-57-6	2-Methylnaphthalene	50	40.0	80	40-140
85-01-8	Phenanthrene	50	52.9	106	40-140
129-00-0	Pyrene	50	58.0	116	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	88%	30-130%
321-60-8	2-Fluorobiphenyl	67%	30-130%
1718-51-0	Terphenyl-d14	82%	30-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27828
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36652-MS	W17430.D	1	01/29/14	KR	01/28/14	OP36652	MSW766
OP36652-MSD	W17431.D	1	01/29/14	KR	01/28/14	OP36652	MSW766
MC27500-23	W17432.D	1	01/29/14	KR	01/28/14	OP36652	MSW766

The QC reported here applies to the following samples: Method: SW846 8270D

MC27828-1

CAS No.	Compound	MC27500-23 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		50	23.9	48	50	21.6	43	10	30-130/20
95-57-8	2-Chlorophenol	ND		50	43.4	87	50	39.1	78	10	30-130/20
59-50-7	4-Chloro-3-methyl phenol	ND		50	42.6	85	50	38.1	76	11	30-130/20
120-83-2	2,4-Dichlorophenol	ND		50	43.4	87	50	39.1	78	10	30-130/20
105-67-9	2,4-Dimethylphenol	ND		50	39.2	78	50	34.9	70	12	30-130/20
51-28-5	2,4-Dinitrophenol	ND		50	38.9	78	50	37.0	74	5	30-130/20
534-52-1	4,6-Dinitro-o-cresol	ND		50	52.9	106	50	50.2	100	5	30-130/20
95-48-7	2-Methylphenol	ND		50	38.2	76	50	33.2	66	14	30-130/20
	3&4-Methylphenol	ND		100	68.4	68	100	60.9	61	12	30-130/20
88-75-5	2-Nitrophenol	ND		50	45.2	90	50	40.6	81	11	30-130/20
100-02-7	4-Nitrophenol	ND		50	16.4	33	50	14.9	30	10	30-130/20
87-86-5	Pentachlorophenol	ND		50	44.9	90	50	42.0	84	7	30-130/20
108-95-2	Phenol	ND		50	18.9	38	50	16.9	34	11	30-130/20
95-95-4	2,4,5-Trichlorophenol	ND		50	44.3	89	50	39.9	80	10	30-130/20
88-06-2	2,4,6-Trichlorophenol	ND		50	44.0	88	50	40.1	80	9	30-130/20
62-53-3	Aniline	ND		50	28.8	58	50	25.6	51	12	40-140/20
101-55-3	4-Bromophenyl phenyl ether	ND		50	60.7	121	50	56.5	113	7	40-140/20
85-68-7	Butyl benzyl phthalate	ND		50	49.4	99	50	46.2	92	7	40-140/20
100-51-6	Benzyl Alcohol	ND		50	40.2	80	50	35.9	72	11	40-140/20
91-58-7	2-Chloronaphthalene	ND		50	44.6	89	50	39.2	78	13	40-140/20
106-47-8	4-Chloroaniline	ND		50	42.0	84	50	37.8	76	11	40-140/20
111-91-1	bis(2-Chloroethoxy)methane	ND		50	37.0	74	50	32.9	66	12	40-140/20
111-44-4	bis(2-Chloroethyl)ether	ND		50	49.4	99	50	44.3	89	11	40-140/20
108-60-1	bis(2-Chloroisopropyl)ether	ND		50	101	202* [a]	50	90.8	182* [a]	11	40-140/20
7005-72-3	4-Chlorophenyl phenyl ether	ND		50	51.4	103	50	45.5	91	12	40-140/20
122-66-7	1,2-Diphenylhydrazine	ND		50	49.1	98	50	45.0	90	9	40-140/20
121-14-2	2,4-Dinitrotoluene	ND		50	48.9	98	50	45.0	90	8	40-140/20
606-20-2	2,6-Dinitrotoluene	ND		50	48.3	97	50	42.8	86	12	40-140/20
91-94-1	3,3'-Dichlorobenzidine	ND		50	45.8	92	50	43.6	87	5	40-140/20
132-64-9	Dibenzofuran	ND		50	47.4	95	50	42.1	84	12	40-140/20
84-74-2	Di-n-butyl phthalate	ND		50	45.6	91	50	42.8	86	6	40-140/20
117-84-0	Di-n-octyl phthalate	ND		50	47.8	96	50	44.2	88	8	40-140/20
84-66-2	Diethyl phthalate	ND		50	44.8	90	50	40.6	81	10	40-140/20
131-11-3	Dimethyl phthalate	ND		50	41.1	82	50	38.4	77	7	40-140/20
117-81-7	bis(2-Ethylhexyl)phthalate	ND		50	52.2	104	50	48.7	97	7	40-140/20
118-74-1	Hexachlorobenzene	ND		50	61.7	123	50	57.0	114	8	40-140/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27828
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36652-MS	W17430.D	1	01/29/14	KR	01/28/14	OP36652	MSW766
OP36652-MSD	W17431.D	1	01/29/14	KR	01/28/14	OP36652	MSW766
MC27500-23	W17432.D	1	01/29/14	KR	01/28/14	OP36652	MSW766

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC27828-1

CAS No.	Compound	MC27500-23 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
77-47-4	Hexachlorocyclopentadiene	ND		50	64.3	129	50	54.7	109	16	40-140/20
67-72-1	Hexachloroethane	ND		50	30.1	60	50	27.1	54	10	40-140/20
78-59-1	Isophorone	ND		50	46.6	93	50	40.8	82	13	40-140/20
88-74-4	2-Nitroaniline	ND		50	49.1	98	50	44.1	88	11	40-140/20
99-09-2	3-Nitroaniline	ND		50	44.4	89	50	41.3	83	7	40-140/20
100-01-6	4-Nitroaniline	ND		50	46.0	92	50	41.6	83	10	40-140/20
98-95-3	Nitrobenzene	ND		50	44.4	89	50	39.1	78	13	40-140/20
62-75-9	n-Nitrosodimethylamine	ND		50	36.4	73	50	32.3	65	12	40-140/20
621-64-7	N-Nitroso-di-n-propylamine	ND		50	45.0	90	50	40.4	81	11	40-140/20
86-30-6	N-Nitrosodiphenylamine	ND		50	46.2	92	50	43.4	87	6	40-140/20
110-86-1	Pyridine	ND		50	31.0	62	50	26.6	53	15	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC27500-23	Limits
367-12-4	2-Fluorophenol	53%	48%	46%	15-110%
4165-62-2	Phenol-d5	35%	31%	30%	15-110%
118-79-6	2,4,6-Tribromophenol	114%* [b]	110%	96%	15-110%
4165-60-0	Nitrobenzene-d5	76%	68%	64%	30-130%
321-60-8	2-Fluorobiphenyl	79%	68%	67%	30-130%
1718-51-0	Terphenyl-d14	102%	96%	98%	30-130%

(a) Outside control limits. Associated samples are non-detect for this compound.
(b) Outside control limits. Associated target analytes are non-detect.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27828
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36653-MS	R36828.D	1	01/29/14	KR	01/28/14	OP36653	MSR1358
OP36653-MSD	R36829.D	1	01/29/14	KR	01/28/14	OP36653	MSR1358
MC27500-24	R36830.D	1	01/29/14	KR	01/28/14	OP36653	MSR1358

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

MC27828-1

CAS No.	Compound	MC27500-24 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND		50	52.7	105	50	47.4	95	11	40-140/20
208-96-8	Acenaphthylene	ND		50	41.4	83	50	37.0	74	11	40-140/20
120-12-7	Anthracene	ND		50	55.3	111	50	50.6	101	9	40-140/20
56-55-3	Benzo(a)anthracene	ND		50	66.6	133	50	63.6	127	5	40-140/20
50-32-8	Benzo(a)pyrene	ND		50	49.5	99	50	46.6	93	6	40-140/20
205-99-2	Benzo(b)fluoranthene	ND		50	56.2	112	50	52.9	106	6	40-140/20
191-24-2	Benzo(g,h,i)perylene	ND		50	57.3	115	50	54.3	109	5	40-140/20
207-08-9	Benzo(k)fluoranthene	ND		50	58.4	117	50	54.6	109	7	40-140/20
218-01-9	Chrysene	ND		50	59.1	118	50	56.3	113	5	40-140/20
53-70-3	Dibenzo(a,h)anthracene	ND		50	59.5	119	50	56.5	113	5	40-140/20
206-44-0	Fluoranthene	ND		50	60.9	122	50	57.1	114	6	40-140/20
86-73-7	Fluorene	ND		50	55.8	112	50	50.5	101	10	40-140/20
193-39-5	Indeno(1,2,3-cd)pyrene	ND		50	58.8	118	50	55.7	111	5	40-140/20
90-12-0	1-Methylnaphthalene	ND		50	45.2	90	50	40.8	82	10	40-140/20
91-57-6	2-Methylnaphthalene	ND		50	44.0	88	50	39.4	79	11	40-140/20
85-01-8	Phenanthrene	ND		50	56.7	113	50	51.9	104	9	40-140/20
129-00-0	Pyrene	ND		50	61.4	123	50	57.4	115	7	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC27500-24	Limits
4165-60-0	Nitrobenzene-d5	95%	85%	80%	30-130%
321-60-8	2-Fluorobiphenyl	77%	68%	66%	30-130%
1718-51-0	Terphenyl-d14	85%	80%	85%	30-130%

* = Outside of Control Limits.

Semivolatile Internal Standard Area Summary

Job Number: MC27828
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSR1358-CC1261	**Injection Date:**	01/29/14
Lab File ID:	R36824.D	**Injection Time:**	15:42
Instrument ID:	GCMSR	**Method:**	SW846 8270D BY SIM

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Check Std	472115	4.28	1570268	5.33	910069	6.87	1484283	8.29	1152699	11.06	2089041	12.56
Upper Limit [a]	944230	4.78	3140536	5.83	1820138	7.37	2968566	8.79	2305398	11.56	4178082	13.06
Lower Limit [b]	236058	3.78	785134	4.83	455035	6.37	742142	7.79	576350	10.56	1044521	12.06
Lab Sample ID	**IS 1 AREA**	**RT**	**IS 2 AREA**	**RT**	**IS 3 AREA**	**RT**	**IS 4 AREA**	**RT**	**IS 5 AREA**	**RT**	**IS 6 AREA**	**RT**
ZZZZZZ	512647	4.28	1700715	5.33	969542	6.87	1564024	8.28	1242041	11.06	2262141	12.56
OP36653-MB	459284	4.28	1498050	5.33	855165	6.87	1384019	8.28	1081521	11.06	1997589	12.56
OP36653-BS	466861	4.28	1517891	5.33	858778	6.87	1388008	8.29	1121286	11.06	2006854	12.56
OP36653-MS	429981	4.28	1403442	5.33	794220	6.87	1283466	8.29	1036099	11.06	1841539	12.56
OP36653-MSD	459293	4.28	1504166	5.33	856281	6.87	1392908	8.29	1128857	11.06	2052483	12.56
MC27500-24	451371	4.28	1480714	5.33	845442	6.87	1370852	8.28	1071893	11.06	1996027	12.56
MC27828-1	441885	4.28	1430269	5.33	823390	6.87	1349022	8.28	1022472	11.06	1879296	12.56
ZZZZZZ	394716	4.28	1321119	5.33	764533	6.87	1243793	8.28	998777	11.06	1865325	12.56
ZZZZZZ	401765	4.28	1354541	5.33	782097	6.87	1264255	8.28	1025084	11.06	1934413	12.56
ZZZZZZ	416369	4.28	1402207	5.33	802515	6.87	1300044	8.28	1031285	11.06	1929277	12.56
ZZZZZZ	406852	4.28	1359715	5.33	783128	6.87	1257430	8.28	1012516	11.06	1895349	12.56
ZZZZZZ	434505	4.28	1452948	5.33	833782	6.87	1353910	8.28	1080646	11.06	1975027	12.56
ZZZZZZ	453990	4.28	1518775	5.33	877823	6.87	1436586	8.28	1131663	11.06	2029654	12.56
ZZZZZZ	472213	4.28	1575892	5.33	903918	6.87	1469976	8.28	1180411	11.06	2203721	12.56
ZZZZZZ	456877	4.28	1515614	5.33	870008	6.87	1413640	8.28	1123776	11.06	2042345	12.56
ZZZZZZ	430410	4.28	1444270	5.33	821898	6.87	1324712	8.28	1051728	11.06	1921489	12.56
ZZZZZZ	426003	4.28	1427511	5.33	823198	6.87	1326353	8.28	1066966	11.06	1933615	12.56
ZZZZZZ	458080	4.28	1534696	5.33	880475	6.87	1425514	8.28	1129809	11.06	2065224	12.56
ZZZZZZ	439556	4.28	1469874	5.33	847497	6.87	1370608	8.28	1088699	11.06	1983846	12.56
ZZZZZZ	438535	4.28	1468805	5.33	839525	6.87	1351603	8.28	1077521	11.05	1974255	12.56
ZZZZZZ	423879	4.28	1409170	5.33	815159	6.87	1320245	8.28	1056337	11.06	1927803	12.56
ZZZZZZ	447444	4.28	1499968	5.33	864694	6.87	1398181	8.28	1125484	11.06	2071681	12.56
ZZZZZZ	425541	4.28	1426345	5.33	825847	6.87	1333002	8.28	1086830	11.06	2016433	12.56

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC27828
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSW766-CC729	**Injection Date:**	01/29/14
Lab File ID:	W17427.D	**Injection Time:**	07:28
Instrument ID:	GCMSW	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	58298	4.47	220682	5.54	150861	7.08	259343	8.38	266543	11.08	243310	12.86
Upper Limit [a]	116596	4.97	441364	6.04	301722	7.58	518686	8.88	533086	11.58	486620	13.36
Lower Limit [b]	29149	3.97	110341	5.04	75431	6.58	129672	7.88	133272	10.58	121655	12.36

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP36652-MB	60792	4.47	225349	5.53	151942	7.08	253325	8.37	253917	11.08	236094	12.85
OP36652-BS	60215	4.47	220576	5.54	147686	7.08	256663	8.37	250177	11.08	228918	12.85
OP36652-MS	58080	4.47	212484	5.54	140662	7.08	244104	8.37	239065	11.08	218464	12.85
OP36652-MSD	62695	4.47	232127	5.54	155212	7.08	262624	8.37	261207	11.08	241944	12.85
MC27500-23	63224	4.47	238070	5.54	158607	7.08	273509	8.37	268697	11.08	253727	12.85
OP36688-MB	67588	4.47	250359	5.53	167692	7.08	279360	8.37	266344	11.08	240893	12.85
OP36688-BS	71174	4.47	264933	5.54	174277	7.08	287753	8.38	272508	11.08	247611	12.85
ZZZZZZ	64927	4.47	235983	5.53	151710	7.08	253360	8.37	228584	11.08	201993	12.85
MC27828-1	58374	4.47	215792	5.53	143816	7.08	238029	8.37	240010	11.08	225891	12.85
ZZZZZZ	62062	4.47	228203	5.53	148291	7.08	248497	8.37	244505	11.08	232108	12.85
OP36679-MB	62128	4.47	229071	5.53	152600	7.08	259121	8.37	254909	11.08	241274	12.85
OP36679-BS	63196	4.47	233406	5.54	156001	7.08	263963	8.37	255257	11.08	242735	12.85
ZZZZZZ	65602	4.47	242036	5.53	161933	7.08	272438	8.37	267153	11.08	255143	12.85
ZZZZZZ	66056	4.47	244694	5.53	163229	7.08	270676	8.37	265338	11.08	249514	12.85
ZZZZZZ	62028	4.47	234468	5.53	154033	7.08	260005	8.37	267622	11.08	247047	12.85
OP36678-MB	59445	4.47	220292	5.53	144019	7.08	243236	8.37	237610	11.08	223925	12.85
OP36666-MB	59445	4.47	220292	5.53	144019	7.08	243236	8.37	237610	11.08	223925	12.85
OP36678-BS	61534	4.47	221397	5.54	146713	7.08	246662	8.37	244089	11.08	228575	12.85
OP36666-BS	61534	4.47	221397	5.54	146713	7.08	246662	8.37	244089	11.08	228575	12.85
OP36666-BSD	63939	4.47	233986	5.54	152659	7.08	263868	8.37	255904	11.08	240028	12.85
ZZZZZZ	62056	4.47	225175	5.53	147479	7.08	246231	8.37	247144	11.07	233285	12.85

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Surrogate Recovery Summary

Job Number: MC27828
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Method: SW846 8270D **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
MC27828-1	W17436.D	42	31	111* [a]	67	64	98
OP36652-BS	W17429.D	50	33	108	71	68	99
OP36652-MB	W17428.D	35	23	77	49	50	98
OP36652-MS	W17430.D	53	35	114* [a]	76	79	102
OP36652-MSD	W17431.D	48	31	110	68	68	96

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	15-110%
S2 = Phenol-d5	15-110%
S3 = 2,4,6-Tribromophenol	15-110%
S4 = Nitrobenzene-d5	30-130%
S5 = 2-Fluorobiphenyl	30-130%
S6 = Terphenyl-d14	30-130%

(a) Outside control limits. Associated target analytes are non-detect.

Semivolatile Surrogate Recovery Summary

Job Number: MC27828
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Method: SW846 8270D BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC27828-1	R36831.D	84	64	86
OP36653-BS	R36827.D	88	67	82
OP36653-MB	R36826.D	61	49	85
OP36653-MS	R36828.D	95	77	85
OP36653-MSD	R36829.D	85	68	80

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	30-130%
S2 = 2-Fluorobiphenyl	30-130%
S3 = Terphenyl-d14	30-130%

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries

Method Blank Summary

Job Number: MC27828
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36674-MB	BB54168.D	1	01/28/14	CZ	01/27/14	OP36674	GBB3162

The QC reported here applies to the following samples: **Method:** SW846 8011

MC27828-1, MC27828-3

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0054	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.011	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	Bromofluorobenzene (S)	76%	36-173%
460-00-4	Bromofluorobenzene (S)	67%	36-173%

Blank Spike Summary

Job Number: MC27828
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36674-BS	BB54169.D	1	01/28/14	CZ	01/27/14	OP36674	GBB3162

The QC reported here applies to the following samples: **Method:** SW846 8011

MC27828-1, MC27828-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
96-12-8	1,2-Dibromo-3-chloropropane	0.071	0.053	75	60-140
106-93-4	1,2-Dibromoethane	0.071	0.050	70	60-140

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	Bromofluorobenzene (S)	82%	36-173%
460-00-4	Bromofluorobenzene (S)	71%	36-173%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27828
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36674-MS	BB54170.D	1	01/28/14	CZ	01/27/14	OP36674	GBB3162
OP36674-MSD	BB54171.D	1	01/29/14	CZ	01/27/14	OP36674	GBB3162
MC27800-5	BB54172.D	1	01/29/14	CZ	01/27/14	OP36674	GBB3162

The QC reported here applies to the following samples: **Method:** SW846 8011

MC27828-1, MC27828-3

CAS No.	Compound	MC27800-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
96-12-8	1,2-Dibromo-3-chloropropane	ND		0.071	0.052	73	0.071	0.055	77	6	64-141/29
106-93-4	1,2-Dibromoethane	ND		0.071	0.046	65	0.071	0.049	69	6	63-163/27

CAS No.	Surrogate Recoveries	MS	MSD	MC27800-5	Limits
460-00-4	Bromofluorobenzene (S)	84%	83%	55%	36-173%
460-00-4	Bromofluorobenzene (S)	63%	65%	50%	36-173%

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: MC27828
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Method: SW846 8011 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]
MC27828-1	BB54177.D	85	69
MC27828-3	BB54179.D	84	72
OP36674-BS	BB54169.D	82	71
OP36674-MB	BB54168.D	76	67
OP36674-MS	BB54170.D	84	63
OP36674-MSD	BB54171.D	83	65

Surrogate Compounds	Recovery Limits
S1 = Bromofluorobenzene (S)	36-173%

(a) Recovery from GC signal #2
(b) Recovery from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC27828
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	GBB3162-ICC3162	**Injection Date:**	01/28/14
Lab File ID:	BB54163.D	**Injection Time:**	20:54
Instrument ID:	GCBB	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.92	4.14

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
ZZZZZZ	BB54166A.D	01/28/14	22:05	4.92	4.14
OP36674-MB	BB54168.D	01/28/14	22:54	4.91	4.14
OP36674-BS	BB54169.D	01/28/14	23:18	4.91	4.14
OP36674-MS	BB54170.D	01/28/14	23:43	4.91	4.14
OP36674-MSD	BB54171.D	01/29/14	00:07	4.91	4.14
MC27800-5	BB54172.D	01/29/14	00:31	4.91	4.14
ZZZZZZ	BB54173.D	01/29/14	00:55	4.90	4.14
ZZZZZZ	BB54174.D	01/29/14	01:20	4.91	4.14
ZZZZZZ	BB54175.D	01/29/14	01:44	4.90	4.14
ZZZZZZ	BB54176.D	01/29/14	02:08	4.90	4.14
MC27828-1	BB54177.D	01/29/14	02:32	4.90	4.14

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC27828
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	GBB3162-CC3162	**Injection Date:**	01/29/14
Lab File ID:	BB54178.D	**Injection Time:**	02:56
Instrument ID:	GCBB	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.90	4.14

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
MC27828-3	BB54179.D	01/29/14	03:20	4.90	4.14
ZZZZZZ	BB54180.D	01/29/14	03:45	4.89	4.14
ZZZZZZ	BB54181.D	01/29/14	04:09	4.91	4.14
ZZZZZZ	BB54182.D	01/29/14	04:33	4.90	4.14
ZZZZZZ	BB54183.D	01/29/14	04:57	4.92	4.14
GBB3162-ECC3162	BB54184.D	01/29/14	05:21	4.91	4.14

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

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e-Hardcopy 2.0
Automated Report

Technical Report for

Shell Oil

URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana,



SGS Accutest Job Number: MC27893

Sampling Date: 01/24/14

Report to:

AECOM, INC.

Melissa.mansker@aecom.com

ATTN: Melissa Mansker

Total number of pages in report: 162

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

H. (Brad) Madadian
Lab Director

Client Service contact: Jeremy Vienneau 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO (MA00136) MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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Test results relate only to samples analyzed.

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SGS ACCUTEST

October 28, 2016

AECOM
1001 Highlands Plaza Drive West Suite 300
St. Louis, MO 63110

RE: SGS Accutest Job # MC27893

Dear Elizabeth Kunkel

As you are aware, SGS Accutest Inc. - Marlborough has been conducting an extensive review of data associated with some historical Gas Chromatography-Mass Spectroscopy volatiles analyses. As a result of this review it was determined that some revisions of the original test report for this job were needed. These corrections have been incorporated into the revised report.

Please be assured that corrective actions have been put in place to address this matter and prevent a recurrence.

We apologize for any inconvenience that this issue may have caused. Please don't hesitate to contact us if we can be of further assistance.

Sincerely,

H. (Brad) Madadian

Regional Laboratory Director
SGS Accutest Inc. - Marlborough

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.

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Sample Summary

Shell Oil

Job No: MC27893

URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
MC27893-1	01/24/14	12:05	DMDC	01/25/14	AQ	Ground Water	P74-ROX-012414
MC27893-2	01/24/14	15:00	DMDC	01/25/14	AQ	Ground Water	P93C-ROX-012414
MC27893-3	01/24/14	16:05	DMDC	01/25/14	AQ	Ground Water	T12-ROX-012414
MC27893-4	01/24/14	00:00	DMDC	01/25/14	AQ	Trip Blank Water	TB-ROX-012414-HCL
MC27893-5	01/24/14	00:00	DMDC	01/25/14	AQ	Trip Blank Water	TB-ROX-012414-ST

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: She O **Job No** MC27893

Site: URSMOSTL:Roxana Q 4 GW/ 2 562973 0300 900 South Centra **Report Date** 0/28/20 6 6:5 :08 P

3 Samp e(s), 2 Tr p B ank(s) and 0 F e d B ank(s) were co ected on 0 /24/20 4 and were rece ved at SGS Accutest New Eng and on 0 /25/20 4 proper y preserved, at 0 4 Deg C and ntact These Samp es rece ved a job number of MC27893 A st ng of the Laboratory Samp e ID, C ent Samp e ID and dates of co ect on are presented n the Resu ts Summary Sect on of th s repo t - Ch orohexane, Benzeneth o , D benz(a,h)acr d ne, Indene and Qu no ne were searched n the brary search and reported on y f detect ons were found

Except as noted be ow, a method spec f ed ca brat ons and qua ty contro performance cr ter a were met for th s job For more nformat on, p ease refer to QC summary pages

Volatiles by GCMS By Method SW846 8260C

Matrix: AQ **Batch ID:** MSV 034

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC27897- MS, MC27897- MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a
- B ank Sp ke Recove y(s) for Ch oroethane, Acro e n, 2,2-D ch oropropane, 2-Ch oroethy v ny ether, Tr ch orof uoromethane are outs de contro m ts
- Matr x Sp ke Recovery(s) for 2,2-D ch oropropane, 2-Ch oroethy v ny ether, Acetone, Acro e n are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference
- Matr x Sp ke Dup cate Recovery(s) for 2-Ch oroethy v ny ether, Acetone, Acro e n are outs de contro m ts Probab e cause due to matr x nte ference
- MSV 034-BS/BSD for Acro e n: Outs de contro m ts Assoc ated samp es are non-detect for th s compound
- MSV 034-BSD for 2,2-D ch oropropane, 2-Ch oroethy v ny ether, Tr ch orof uoromethane, : Outs de contro m ts B ank Sp ke meets program techn ca requ rements

Matrix: AQ **Batch ID:** MSV 035

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC27893-2MS, MC27893-2MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a
- B ank Sp ke Recove y(s) for 2-Ch oroethy v ny ether, Acro e n are outs de contro m ts
- Matr x Sp ke Recovery(s) for 2,2-D ch oropropane, Acetone, Acro e n are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference
- Matr x Sp ke Dup cate Recovery(s) for Acetone, Acro e n, 2-Ch oroethy v ny ether are outs de contro m ts H gh RPD due to poss b e matr x nterference and/or samp e non-homogene ty
- RPD(s) for MSD for 2-Ch oroethy v ny ether are outs de contro m ts for samp e MC27893-2MSD H gh RPD due to poss b e matr x nterference and/or samp e non-homogene ty
- Methy Tert Buty Ether: Cont nu ng Ca brat on outs de of acceptance cr ter a Samp e resu t may be b ased h gh
- 2-Butanone (MEK, 2-Hexanone, Acetone: Cont nu ng Ca brat on Ver f cat on outs de of acceptance cr ter a Samp e resu t may be b ased ow
- MSV 035-BS/BSD for Acro e n, 2-Ch oroethy v ny ether: Outs de contro m ts Assoc ated samp es are non-detect for th s compound

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP36666

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC27800- MS, MC27800- MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a
- B ank Sp ke Recove y(s) for b s(2-Ch oro sopropy)ether are outs de contro m ts
- Matr x Sp ke Recovery(s) for 2,4-D n tropheno , b s(2-Ch oro sopropy)ether are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference Refer to B ank Sp ke
- Matr x Sp ke Dup cate Recovery(s) for b s(2-Ch oro sopropy)ether are outs de contro m ts Probab e cause due to matr x nterference
- RPD(s) for MSD for 2,4-D methy pheno , D methy phtha ate are outs de contro m ts for samp e OP36666-MSD H gh RPD due to poss b e matr x nterference and/or samp e non-homogene ty
- OP36666-BS/MS/MSD for b s(2-Ch oro sopropy)ether: Outs de contro m ts Assoc ated samp es are non-detect for th s compound
- OP36666-BS for 2,4,6-Tr bromopheno : Outs de contro m ts Assoc ated target ana ytes are non-detect
- In t a ca brat on ver f cat on for An ne, b s(2-ch oro sopropy)ether exceed 30% D fference These compounds are w th n cr ter a n cont nu ng ca brat on ver f cat on check standard

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP36668

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC27800-2MS, MC27800-2MSD were used as the QC samp es nd cated
- Samp e(s) MC27893- have compound(s) repo ted w th a “B” qua f er, nd cat ng ana yte s found n the assoc ated method b ank

Volatiles by GC By Method SW846 8011

Matrix: AQ **Batch ID:** OP36674

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC27800-5MS, MC27800-5MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a

SGS Accutest New Eng and ce t f es that a ana ys s were performed w th n method spec f cat on It s further recommended that th s report to be used n ts ent rety The Laborato y D rector for SGS Accutest New Eng and or ass gnee as ver f ed by the s gnature on the cover page has author zed the re ease of th s report(MC27893)

Summary of Hits

Job Number: MC27893
Account: Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL
Collected: 01/24/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC27893-1	P74-ROX-012414					
Benzene		4450	50	45	ug/l	SW846 8260C
n-Butylbenzene		25.2	5.0	0.54	ug/l	SW846 8260C
sec-Butylbenzene		3.1 J	5.0	0.58	ug/l	SW846 8260C
Ethylbenzene		115	1.0	0.38	ug/l	SW846 8260C
Isopropylbenzene		5.8	5.0	0.64	ug/l	SW846 8260C
p-Isopropyltoluene		3.1 J	5.0	0.55	ug/l	SW846 8260C
Naphthalene		32.2	5.0	0.79	ug/l	SW846 8260C
n-Propylbenzene		11.2	5.0	0.59	ug/l	SW846 8260C
Toluene		153	1.0	0.46	ug/l	SW846 8260C
1,2,4-Trimethylbenzene		292	5.0	0.47	ug/l	SW846 8260C
1,3,5-Trimethylbenzene		110	5.0	1.1	ug/l	SW846 8260C
m,p-Xylene		316	1.0	0.70	ug/l	SW846 8260C
o-Xylene		57.9	1.0	0.41	ug/l	SW846 8260C
Xylene (total)		374	1.0	0.41	ug/l	SW846 8260C
Phenol		27.8	5.1	0.52	ug/l	SW846 8270D
Butyl benzyl phthalate		0.97 J	5.1	0.87	ug/l	SW846 8270D
Di-n-butyl phthalate		0.48 J	5.1	0.40	ug/l	SW846 8270D
bis(2-Ethylhexyl)phthalate		0.63 J	2.0	0.50	ug/l	SW846 8270D
Acenaphthene		0.23	0.10	0.070	ug/l	SW846 8270D BY SIM
Fluoranthene		0.088 J	0.10	0.041	ug/l	SW846 8270D BY SIM
Fluorene		0.28	0.10	0.10	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene		8.8	0.20	0.051	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		10.6	0.20	0.076	ug/l	SW846 8270D BY SIM
Phenanthrene		0.14 B	0.051	0.013	ug/l	SW846 8270D BY SIM
Pyrene		0.049 J	0.10	0.039	ug/l	SW846 8270D BY SIM
MC27893-2	P93C-ROX-012414					
Methyl Tert Butyl Ether [a]		4.7	1.0	0.43	ug/l	SW846 8260C
Di-n-butyl phthalate		0.51 J	5.1	0.40	ug/l	SW846 8270D
MC27893-3	T12-ROX-012414					
Benzene		2480	10	9.0	ug/l	SW846 8260C
n-Butylbenzene		8.3	5.0	0.54	ug/l	SW846 8260C
sec-Butylbenzene		2.9 J	5.0	0.58	ug/l	SW846 8260C
Ethylbenzene		518	20	7.5	ug/l	SW846 8260C
Isopropylbenzene		36.2	5.0	0.64	ug/l	SW846 8260C
Naphthalene		171	5.0	0.79	ug/l	SW846 8260C
n-Propylbenzene		67.6	5.0	0.59	ug/l	SW846 8260C
Toluene		421	20	9.2	ug/l	SW846 8260C
1,2,4-Trimethylbenzene		526	100	9.3	ug/l	SW846 8260C
1,3,5-Trimethylbenzene		50.7	5.0	1.1	ug/l	SW846 8260C

Summary of Hits

Job Number: MC27893
Account: Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL
Collected: 01/24/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
m,p-Xylene		1120	20	14	ug/l	SW846 8260C
o-Xylene		46.9	1.0	0.41	ug/l	SW846 8260C
Xylene (total)		1230	20	8.2	ug/l	SW846 8260C
2,4-Dimethylphenol		7.3 J	10	1.2	ug/l	SW846 8270D
2-Methylphenol		2.2 J	10	1.3	ug/l	SW846 8270D
Phenol		49.8	5.1	0.52	ug/l	SW846 8270D
Di-n-butyl phthalate		0.44 J	5.1	0.40	ug/l	SW846 8270D
Acenaphthene		0.50	0.10	0.070	ug/l	SW846 8270D BY SIM
Anthracene		0.14	0.10	0.094	ug/l	SW846 8270D BY SIM
Fluorene		0.35	0.10	0.10	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene		21.5	0.20	0.051	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		32.6	0.20	0.076	ug/l	SW846 8270D BY SIM
Phenanthrene		1.0	0.051	0.013	ug/l	SW846 8270D BY SIM
Pyrene		0.060 J	0.10	0.039	ug/l	SW846 8270D BY SIM
MC27893-4	**TB-ROX-012414-HCL**					
Acetone		5.7 J	10	2.8	ug/l	SW846 8260C
MC27893-5	**TB-ROX-012414-ST**					
No hits reported in this sample.						

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased high.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	P74-ROX-012414		
Lab Sample ID:	MC27893-1	**Date Sampled:**	01/24/14
Matrix:	AQ - Ground Water	**Date Received:**	01/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V27401.D	1	01/28/14	AMY	n/a	n/a	MSV1034
Run #2	V27440.D	100	01/29/14	AMY	n/a	n/a	MSV1035

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	4450 [a]	50	45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
104-51-8	n-Butylbenzene	25.2	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	3.1	5.0	0.58	ug/l	J
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P74-ROX-012414		
Lab Sample ID:	MC27893-1	**Date Sampled:**	01/24/14
Matrix:	AQ - Ground Water	**Date Received:**	01/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
123-91-1	1,4-Dioxane	ND	25	16	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	115	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
98-82-8	Isopropylbenzene	5.8	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	3.1	5.0	0.55	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	32.2	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	11.2	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	153	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	292	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	110	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	316	1.0	0.70	ug/l	
95-47-6	o-Xylene	57.9	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	374	1.0	0.41	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P74-ROX-012414		
Lab Sample ID:	MC27893-1	**Date Sampled:**	01/24/14
Matrix:	AQ - Ground Water	**Date Received:**	01/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%	101%	70-130%
2037-26-5	Toluene-D8	93%	97%	70-130%
460-00-4	4-Bromofluorobenzene	106%	103%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P74-ROX-012414		
Lab Sample ID:	MC27893-1	**Date Sampled:**	01/24/14
Matrix:	AQ - Ground Water	**Date Received:**	01/25/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W17467.D	1	01/29/14	KR	01/27/14	OP36666	MSW767
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.1	0.39	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.50	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.33	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	ND	10	1.3	ug/l	
	3&4-Methylphenol	ND	10	2.1	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.51	ug/l	
100-02-7	4-Nitrophenol	ND	20	0.60	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	27.8	5.1	0.52	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.58	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.32	ug/l	
62-53-3	Aniline	ND	10	0.65	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.1	0.21	ug/l	
85-68-7	Butyl benzyl phthalate	0.97	5.1	0.87	ug/l	J
100-51-6	Benzyl Alcohol	ND	10	0.59	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.1	0.94	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.26	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.1	0.21	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.1	0.24	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.1	0.14	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.1	0.20	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.1	0.67	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.69	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.65	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.1	0.51	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	0.48	5.1	0.40	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.1	0.44	ug/l	

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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P74-ROX-012414		
Lab Sample ID:	MC27893-1	**Date Sampled:**	01/24/14
Matrix:	AQ - Ground Water	**Date Received:**	01/25/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.1	0.51	ug/l	
131-11-3	Dimethyl phthalate	ND	5.1	0.51	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	0.63	2.0	0.50	ug/l	J
118-74-1	Hexachlorobenzene	ND	5.1	0.30	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.6	ug/l	
67-72-1	Hexachloroethane	ND	5.1	0.45	ug/l	
78-59-1	Isophorone	ND	5.1	0.20	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.51	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.4	ug/l	
98-95-3	Nitrobenzene	ND	5.1	0.25	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.1	0.51	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.1	0.82	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.1	0.55	ug/l	
110-86-1	Pyridine	ND	10	0.53	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	39%		15-110%
4165-62-2	Phenol-d5	27%		15-110%
118-79-6	2,4,6-Tribromophenol	108%		15-110%
4165-60-0	Nitrobenzene-d5	56%		30-130%
321-60-8	2-Fluorobiphenyl	64%		30-130%
1718-51-0	Terphenyl-d14	84%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P74-ROX-012414		
Lab Sample ID:	MC27893-1	**Date Sampled:**	01/24/14
Matrix:	AQ - Ground Water	**Date Received:**	01/25/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I87126.D	1	01/30/14	KR	01/27/14	OP36668	MSI3240
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.23	0.10	0.070	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.051	ug/l	
120-12-7	Anthracene	ND	0.10	0.094	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.051	0.020	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.029	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.051	0.032	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.027	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.039	ug/l	
218-01-9	Chrysene	ND	0.10	0.024	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.033	ug/l	
206-44-0	Fluoranthene	0.088	0.10	0.041	ug/l	J
86-73-7	Fluorene	0.28	0.10	0.10	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.031	ug/l	
90-12-0	1-Methylnaphthalene	8.8	0.20	0.051	ug/l	
91-57-6	2-Methylnaphthalene	10.6	0.20	0.076	ug/l	
85-01-8	Phenanthrene	0.14	0.051	0.013	ug/l	B
129-00-0	Pyrene	0.049	0.10	0.039	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	66%		30-130%
321-60-8	2-Fluorobiphenyl	60%		30-130%
1718-51-0	Terphenyl-d14	76%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P74-ROX-012414		
Lab Sample ID:	MC27893-1	**Date Sampled:**	01/24/14
Matrix:	AQ - Ground Water	**Date Received:**	01/25/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB54180.D	1	01/29/14	CZ	01/27/14	OP36674	GBB3162
Run #2							

	Initial Volume	Final Volume
Run #1	37.0 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.014	0.0051	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	89%		36-173%
460-00-4	Bromofluorobenzene (S)	64%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93C-ROX-012414		
Lab Sample ID:	MC27893-2	**Date Sampled:**	01/24/14
Matrix:	AQ - Ground Water	**Date Received:**	01/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V27432.D	1	01/29/14	AMY	n/a	n/a	MSV1035
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	10	2.8	ug/l	
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK) [a]	ND	5.0	1.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93C-ROX-012414		
Lab Sample ID:	MC27893-2	**Date Sampled:**	01/24/14
Matrix:	AQ - Ground Water	**Date Received:**	01/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
123-91-1	1,4-Dioxane	ND	25	16	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone [b]	ND	5.0	2.3	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether [c]	4.7	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.70	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93C-ROX-012414		
Lab Sample ID:	MC27893-2	**Date Sampled:**	01/24/14
Matrix:	AQ - Ground Water	**Date Received:**	01/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		70-130%
2037-26-5	Toluene-D8	98%		70-130%
460-00-4	4-Bromofluorobenzene	106%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.
(b) Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.
(c) Continuing Calibration outside of acceptance criteria. Sample result may be biased high.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93C-ROX-012414		
Lab Sample ID:	MC27893-2	**Date Sampled:**	01/24/14
Matrix:	AQ - Ground Water	**Date Received:**	01/25/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W17468.D	1	01/30/14	KR	01/27/14	OP36666	MSW767
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.1	0.39	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.50	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.33	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	ND	10	1.3	ug/l	
	3&4-Methylphenol	ND	10	2.1	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.51	ug/l	
100-02-7	4-Nitrophenol	ND	20	0.60	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	ND	5.1	0.52	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.58	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.32	ug/l	
62-53-3	Aniline	ND	10	0.65	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.1	0.21	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.1	0.87	ug/l	
100-51-6	Benzyl Alcohol	ND	10	0.59	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.1	0.94	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.26	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.1	0.21	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.1	0.24	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.1	0.14	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.1	0.20	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.1	0.67	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.69	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.65	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.1	0.51	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	0.51	5.1	0.40	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.1	0.44	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93C-ROX-012414		
Lab Sample ID:	MC27893-2	**Date Sampled:**	01/24/14
Matrix:	AQ - Ground Water	**Date Received:**	01/25/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.1	0.51	ug/l	
131-11-3	Dimethyl phthalate	ND	5.1	0.51	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.50	ug/l	
118-74-1	Hexachlorobenzene	ND	5.1	0.30	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.6	ug/l	
67-72-1	Hexachloroethane	ND	5.1	0.45	ug/l	
78-59-1	Isophorone	ND	5.1	0.20	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.51	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.4	ug/l	
98-95-3	Nitrobenzene	ND	5.1	0.25	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.1	0.51	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.1	0.82	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.1	0.55	ug/l	
110-86-1	Pyridine	ND	10	0.53	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	44%		15-110%
4165-62-2	Phenol-d5	31%		15-110%
118-79-6	2,4,6-Tribromophenol	105%		15-110%
4165-60-0	Nitrobenzene-d5	67%		30-130%
321-60-8	2-Fluorobiphenyl	71%		30-130%
1718-51-0	Terphenyl-d14	80%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93C-ROX-012414		
Lab Sample ID:	MC27893-2	**Date Sampled:**	01/24/14
Matrix:	AQ - Ground Water	**Date Received:**	01/25/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I87127.D	1	01/30/14	KR	01/27/14	OP36668	MSI3240
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.070	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.051	ug/l	
120-12-7	Anthracene	ND	0.10	0.094	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.051	0.020	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.029	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.051	0.032	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.027	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.039	ug/l	
218-01-9	Chrysene	ND	0.10	0.024	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.033	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.041	ug/l	
86-73-7	Fluorene	ND	0.10	0.10	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.031	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.20	0.051	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.20	0.076	ug/l	
85-01-8	Phenanthrene	ND	0.051	0.013	ug/l	
129-00-0	Pyrene	ND	0.10	0.039	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	76%		30-130%
321-60-8	2-Fluorobiphenyl	65%		30-130%
1718-51-0	Terphenyl-d14	71%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93C-ROX-012414		
Lab Sample ID:	MC27893-2	**Date Sampled:**	01/24/14
Matrix:	AQ - Ground Water	**Date Received:**	01/25/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB54181.D	1	01/29/14	CZ	01/27/14	OP36674	GBB3162
Run #2							

	Initial Volume	Final Volume
Run #1	36.4 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.014	0.0052	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	78%		36-173%
460-00-4	Bromofluorobenzene (S)	66%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T12-ROX-012414		
Lab Sample ID:	MC27893-3	**Date Sampled:**	01/24/14
Matrix:	AQ - Ground Water	**Date Received:**	01/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V27403.D	1	01/28/14	AMY	n/a	n/a	MSV1034
Run #2	V27439.D	20	01/29/14	AMY	n/a	n/a	MSV1035

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	2480 [a]	10	9.0	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
104-51-8	n-Butylbenzene	8.3	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	2.9	5.0	0.58	ug/l	J
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T12-ROX-012414		
Lab Sample ID:	MC27893-3	**Date Sampled:**	01/24/14
Matrix:	AQ - Ground Water	**Date Received:**	01/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
123-91-1	1,4-Dioxane	ND	25	16	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	518 [a]	20	7.5	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
98-82-8	Isopropylbenzene	36.2	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	171	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	67.6	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	421 [a]	20	9.2	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	526 [a]	100	9.3	ug/l	
108-67-8	1,3,5-Trimethylbenzene	50.7	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	1120 [a]	20	14	ug/l	
95-47-6	o-Xylene	46.9	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	1230 [a]	20	8.2	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T12-ROX-012414		
Lab Sample ID:	MC27893-3	**Date Sampled:**	01/24/14
Matrix:	AQ - Ground Water	**Date Received:**	01/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%	97%	70-130%
2037-26-5	Toluene-D8	92%	98%	70-130%
460-00-4	4-Bromofluorobenzene	105%	103%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T12-ROX-012414		
Lab Sample ID:	MC27893-3	**Date Sampled:**	01/24/14
Matrix:	AQ - Ground Water	**Date Received:**	01/25/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W17469.D	1	01/30/14	KR	01/27/14	OP36666	MSW767
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.1	0.39	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.50	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.33	ug/l	
105-67-9	2,4-Dimethylphenol	7.3	10	1.2	ug/l	J
51-28-5	2,4-Dinitrophenol	ND	20	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	2.2	10	1.3	ug/l	J
	3&4-Methylphenol	ND	10	2.1	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.51	ug/l	
100-02-7	4-Nitrophenol	ND	20	0.60	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	49.8	5.1	0.52	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.58	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.32	ug/l	
62-53-3	Aniline	ND	10	0.65	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.1	0.21	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.1	0.87	ug/l	
100-51-6	Benzyl Alcohol	ND	10	0.59	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.1	0.94	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.26	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.1	0.21	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.1	0.24	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.1	0.14	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.1	0.20	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.1	0.67	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.69	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.65	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.1	0.51	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	0.44	5.1	0.40	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.1	0.44	ug/l	

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Report of Analysis

Client Sample ID:	T12-ROX-012414		
Lab Sample ID:	MC27893-3	**Date Sampled:**	01/24/14
Matrix:	AQ - Ground Water	**Date Received:**	01/25/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.1	0.51	ug/l	
131-11-3	Dimethyl phthalate	ND	5.1	0.51	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.50	ug/l	
118-74-1	Hexachlorobenzene	ND	5.1	0.30	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.6	ug/l	
67-72-1	Hexachloroethane	ND	5.1	0.45	ug/l	
78-59-1	Isophorone	ND	5.1	0.20	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.51	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.4	ug/l	
98-95-3	Nitrobenzene	ND	5.1	0.25	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.1	0.51	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.1	0.82	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.1	0.55	ug/l	
110-86-1	Pyridine	ND	10	0.53	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	29%		15-110%
4165-62-2	Phenol-d5	25%		15-110%
118-79-6	2,4,6-Tribromophenol	96%		15-110%
4165-60-0	Nitrobenzene-d5	65%		30-130%
321-60-8	2-Fluorobiphenyl	69%		30-130%
1718-51-0	Terphenyl-d14	94%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

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RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T12-ROX-012414		
Lab Sample ID:	MC27893-3	**Date Sampled:**	01/24/14
Matrix:	AQ - Ground Water	**Date Received:**	01/25/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I87128.D	1	01/30/14	KR	01/27/14	OP36668	MSI3240
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.50	0.10	0.070	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.051	ug/l	
120-12-7	Anthracene	0.14	0.10	0.094	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.051	0.020	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.029	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.051	0.032	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.027	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.039	ug/l	
218-01-9	Chrysene	ND	0.10	0.024	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.033	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.041	ug/l	
86-73-7	Fluorene	0.35	0.10	0.10	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.031	ug/l	
90-12-0	1-Methylnaphthalene	21.5	0.20	0.051	ug/l	
91-57-6	2-Methylnaphthalene	32.6	0.20	0.076	ug/l	
85-01-8	Phenanthrene	1.0	0.051	0.013	ug/l	
129-00-0	Pyrene	0.060	0.10	0.039	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	75%		30-130%
321-60-8	2-Fluorobiphenyl	64%		30-130%
1718-51-0	Terphenyl-d14	84%		30-130%

ND = Not detected MDL = Method Detection Limit
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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T12-ROX-012414		
Lab Sample ID:	MC27893-3	**Date Sampled:**	01/24/14
Matrix:	AQ - Ground Water	**Date Received:**	01/25/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB54182.D	1	01/29/14	CZ	01/27/14	OP36674	GBB3162
Run #2							

	Initial Volume	Final Volume
Run #1	35.9 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0053	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	81%		36-173%
460-00-4	Bromofluorobenzene (S)	73%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-012414-HCL		
Lab Sample ID:	MC27893-4	**Date Sampled:**	01/24/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V27399.D	1	01/28/14	AMY	n/a	n/a	MSV1034
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	5.7	10	2.8	ug/l	J
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	

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J = Indicates an estimated value
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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-012414-HCL		
Lab Sample ID:	MC27893-4	**Date Sampled:**	01/24/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
123-91-1	1,4-Dioxane	ND	25	16	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.70	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-012414-HCL		
Lab Sample ID:	MC27893-4	**Date Sampled:**	01/24/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	114%		70-130%
2037-26-5	Toluene-D8	100%		70-130%
460-00-4	4-Bromofluorobenzene	106%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-012414-ST		
Lab Sample ID:	MC27893-5	**Date Sampled:**	01/24/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/25/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB54183.D	1	01/29/14	CZ	01/27/14	OP36674	GBB3162
Run #2							

	Initial Volume	Final Volume
Run #1	36.0 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0053	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	78%		36-173%
460-00-4	Bromofluorobenzene (S)	68%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

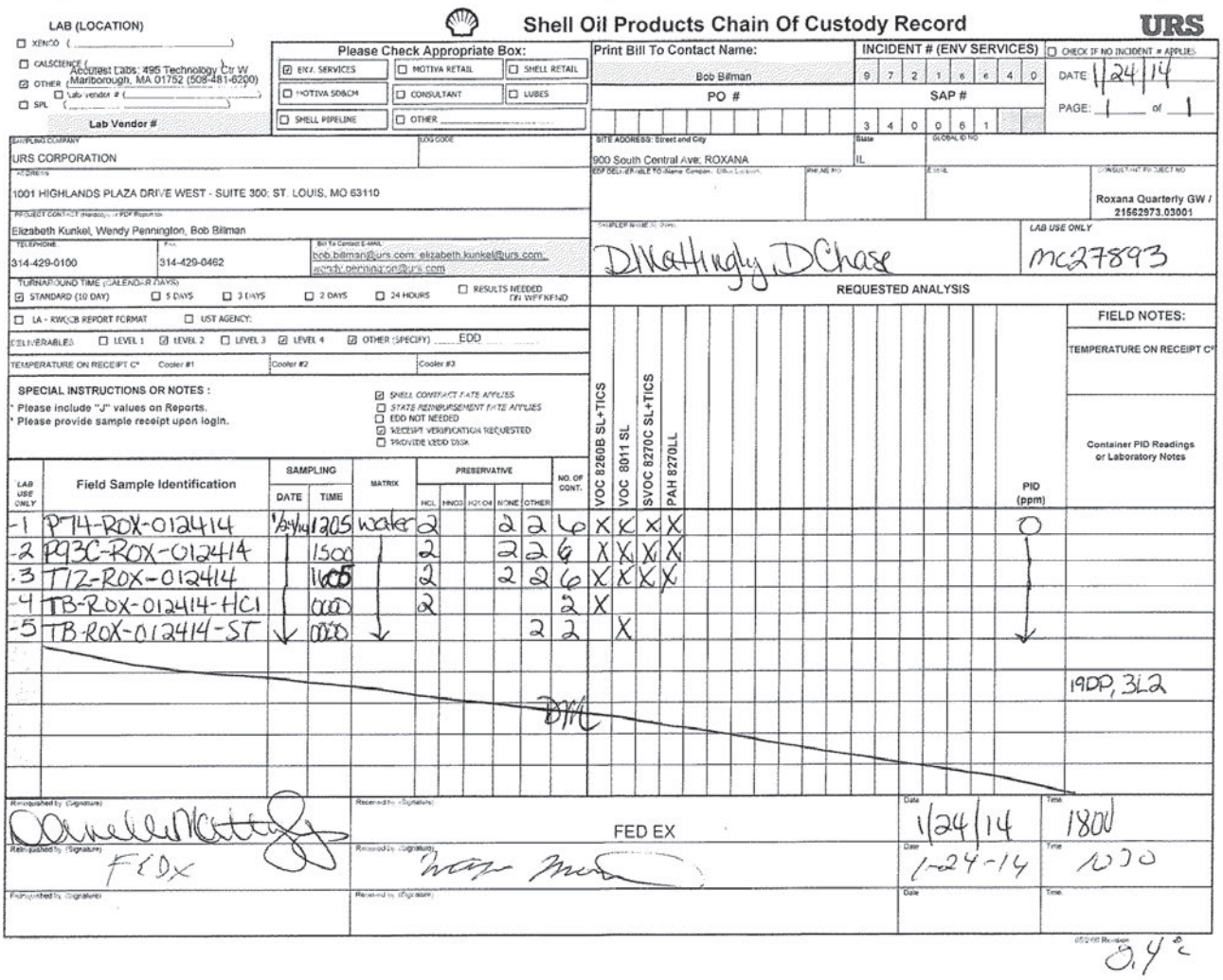
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- REPROC Form: Reprocessed/Corrected Data
- Sample Tracking Chronicle
- Internal Chain of Custody



LAB (LOCATION)
☐ XENCO (_____)
☐ CALSCIENCE (_____)
☑ OTHER (Accutest Labs: 495 Technology Ctr W Marlborough, MA 01752 (508-481-6200))
☐ SPL (_____)
Lab Vendor #

Shell Oil Products Chain Of Custody Record

URS

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SO&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Bob Billman
PO #
INCIDENT # (ENV SERVICES): 9 7 2 1 6 4 0
SAP #: 3 4 0 0 6 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 1/24/14
PAGE: 1 of 1

BILLING COMPANY: URS CORPORATION
LOG CODE
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
PROJECT CONTACT (Hardcopy or PDF Report to): Elizabeth Kunkel, Wendy Pennington, Bob Billman
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: bob.billman@urs.com; elizabeth.kunkel@urs.com; wendy.pennington@urs.com
SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA
State: IL
GLOBAL ID NO
EDF DELIVERABLE TO (Name, Company, Office Location)
PHONE NO
E-MAIL
CONSULTANT PROJECT NO: Roxana Quarterly GW / 21562973.03001
SAMPLER NAME(S) (Print): D Nothingly, D Chase
LAB USE ONLY: MC27893

TURNAROUND TIME (CALENDAR DAYS)
☑ STANDARD (10 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☑ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☑ OTHER (SPECIFY) EDD

TEMPERATURE ON RECEIPT C°: Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :
* Please include "J" values on Reports.
* Please provide sample receipt upon login.

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE EDD/DKA

REQUESTED ANALYSIS

FIELD NOTES:
TEMPERATURE ON RECEIPT C°
Container PID Readings or Laboratory Notes

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8260B SL+TICS	VOC 8011 SL	SVOC 8270C SL+TICS	PAH 8270LL	PID (ppm)
-1	P74-ROX-012414	1/24/14	1205	water	2			2	2	6	X	X	X	X	0
-2	P93C-ROX-012414		1500		2			2	2	6	X	X	X	X	
-3	TT2-ROX-012414		1105		2			2	2	6	X	X	X	X	
-4	TB-ROX-012414-HCl		0000		2					2	X				
-5	TB-ROX-012414-ST	↓	0000	↓					2	2		X			↓

19DP, 3L2

DMC

		Date	Time
Relinquished by (Signature)	Received by (Signature): FED EX	1/24/14	1800
Relinquished by (Signature): FEDX	Received by (Signature)	1-24-14	1000
Relinquished by (Signature)	Received by (Signature)		

0.4°C

5.1 5

MC27893: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC27893 **Client:** URS **Immediate Client Services Action Required:** No

Date / Time Received: 1/25/2014 **Delivery Method:** **Client Service Action Required at Login:** No

Project: 900 SOUTH CENTRAL **No. Coolers:** 1 **Airbill #'s:**

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Infared gun		
3. Cooler media:	Ice (bag)		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

Marlborough, MA
www/accutest.com

5.1

5

MC27893: Chain of Custody
Page 2 of 2

Initial Calibration Summary

Job Number: MC27893 **Sample:** MSV1019-ICC1019
Account: SHELLWIC Shell Oil **Lab FileID:** V26938.D
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Response Factor Report MSV

Method : O:\msv\1\methods\v140107wx.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Calibration Files
0.25=v26932.d 0.5 =v26933.d 1 =v26934.d 2 =v26935.d
5 =v26936.d 10 =v26937.d 50 =v26938.d 100 =v26939.d
200 =v26940.d 400 =v26942.d = =

Compound

	0.25	0.5	1	2	5	10	50	100	200	400	Avg	%RSD
1) I tert butyl alcohol-d9 ----------ISTD----------												
2) Ethanol				0.166	0.141	0.140	0.070	0.095	0.070	0.077	0.108	36.81

---- Linear regression ---- Coefficient = 0.9924
Response Ratio = 0.07206 + 0.07518 *A

3) I pentafluorobenzene ----------ISTD----------												
4) chloroethane				0.708	0.546	0.470	0.438	0.407	0.399	0.368	0.311	0.456	27.04

---- Linear regression ---- Coefficient = 0.9911
Response Ratio = 0.00673 + 0.37855 *A

(#) = Out of Range ### Number of calibration levels exceeded format ###

v140107wx.m Mon Oct 12 12:04:54 2015

Initial Calibration Verification

Job Number: MC27893 **Sample:** MSV1019-ICV1019
Account: SHELLWIC Shell Oil **Lab FileID:** V26944.D
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Evaluate Continuing Calibration Report

Data File : O:\msv\1\databackup\v140107\v26944.d Vial: 22
Acq On : 7 Jan 2014 7:05 pm Operator: amym
Sample : icv1019-50 Inst : MSV
Misc : MS30921,MSV1019,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : O:\msv\1\methods\v140107wx.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Oct 12 12:03:49 2015
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	tert butyl alcohol-d9	1.000	1.000	0.0	110	-0.01	3.51
		Amount	Calc.	%Drift			
2 p	Ethanol	5000.000	6281.655	-25.6#	160	0.01	2.50
		AvgRF	CCRF	%Dev			
3 I	pentafluorobenzene	1.000	1.000	0.0	113	0.00	6.55
		Amount	Calc.	%Drift			
4 p	chloroethane	50.000	55.636	-11.3	119	0.00	2.15

(#) = Out of Range SPCC's out = 0 CCC's out = 0
v26938.d v140107wx.m Mon Oct 12 12:05:26 2015

Continuing Calibration Summary

Job Number: MC27893 **Sample:** MSV1034-CC1019
Account: SHELLWIC Shell Oil **Lab FileID:** V27394.D
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Evaluate Continuing Calibration Report

Data File : O:\msv\1\databackup\v140128\v27394.d Vial: 4
Acq On : 28 Jan 2014 11:42 am Operator: amym
Sample : cc1019-50 Inst : MSV
Misc : MS31031,MSV1034,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : O:\msv\1\methods\v140107wx.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Oct 12 12:03:49 2015
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	tert butyl alcohol-d9	1.000	1.000	0.0	72	-0.01	3.51
		Amount	Calc.	%Drift			
2 p	Ethanol	5000.000	8558.799	-71.2#	141	0.02	2.51
		AvgRF	CCRF	%Dev			
3 I	pentafluorobenzene	1.000	1.000	0.0	66	-0.01	6.55
		Amount	Calc.	%Drift			
4 p	chloroethane	50.000	68.591	-37.2#	85	0.00	2.16

(#) = Out of Range SPCC's out = 0 CCC's out = 0
v26938.d v140107wx.m Wed Nov 18 13:31:29 2015

Continuing Calibration Summary

Job Number: MC27893 **Sample:** MSV1035-CC1019
Account: SHELLWIC Shell Oil **Lab FileID:** V27424.D
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Evaluate Continuing Calibration Report

Data File : O:\msv\1\databackup\v140129\v27424.d Vial: 2
Acq On : 29 Jan 2014 11:03 am Operator: amym
Sample : cc1019-50 Inst : MSV
Misc : MS31038,MSV1035,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : O:\msv\1\methods\v140107wx.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Oct 12 12:03:49 2015
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	tert butyl alcohol-d9	1.000	1.000	0.0	88	0.00	3.52
		Amount	Calc.	%Drift			
2 p	Ethanol	5000.000	7238.355	-44.8#	147	0.02	2.51
		AvgRF	CCRF	%Dev			
3 I	pentafluorobenzene	1.000	1.000	0.0	82	0.00	6.56
		Amount	Calc.	%Drift			
4 p	chloroethane	50.000	57.696	-15.4	89	0.00	2.16

(#) = Out of Range SPCC's out = 0 CCC's out = 0
v26938.d v140107wx.m Thu Nov 19 08:21:44 2015

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26932.d
Acq On : 7 Jan 2014 12:30 pm
Operator : amym
Sample : ic1019-0.25
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

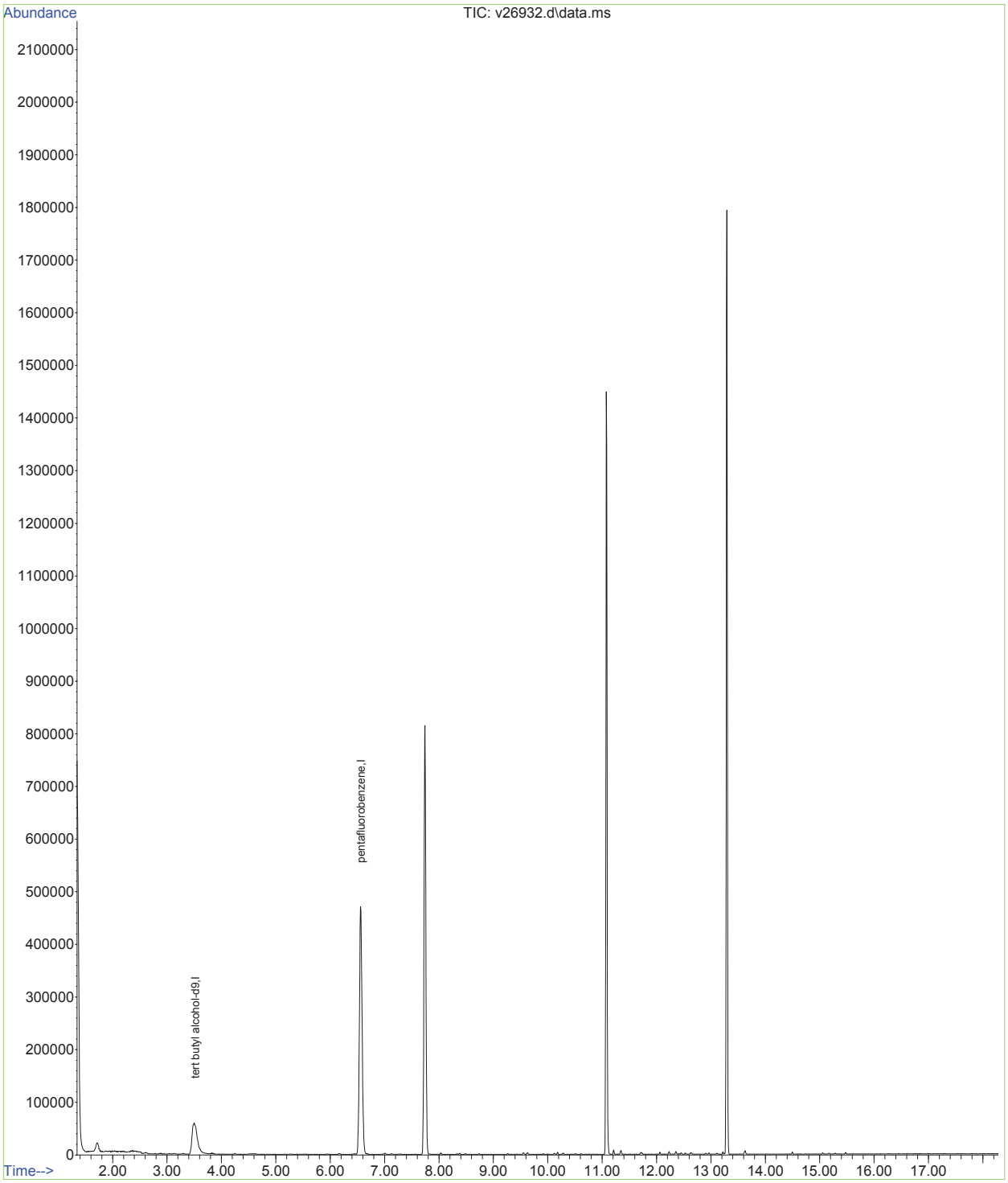
Quant Time: Oct 12 11:50:29 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.522	65	168440	500.00	ug/L	0.00
3) pentafluorobenzene	6.564	168	534929	50.00	ug/L	0.00
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msv\1\databackup\v140107\
Data File : v26932.d
Acq On : 7 Jan 2014 12:30 pm
Operator : amym
Sample : ic1019-0.25
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 12 11:50:29 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26933.d
Acq On : 7 Jan 2014 12:56 pm
Operator : amym
Sample : ic1019-0.5
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

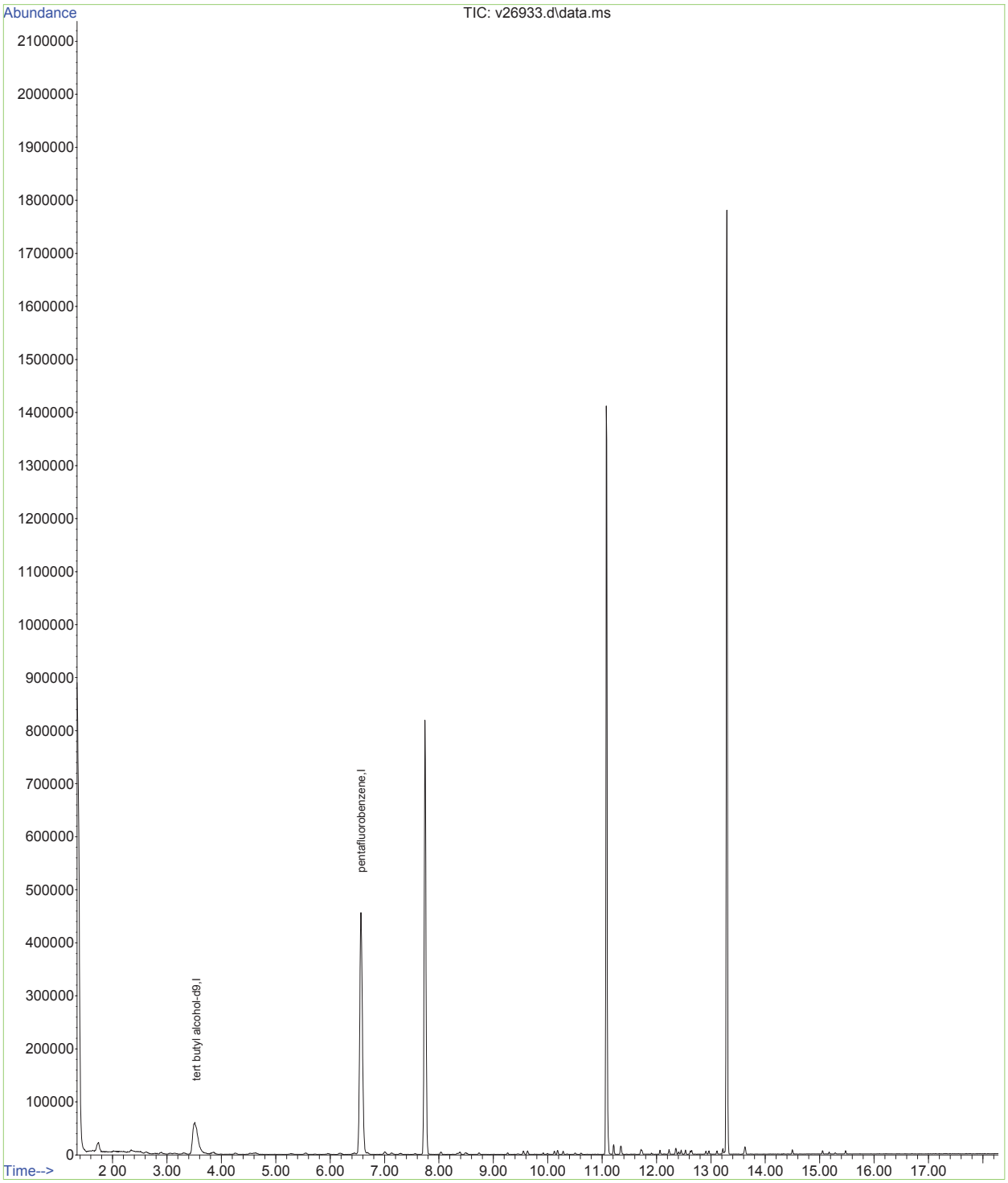
Quant Time: Oct 12 11:50:59 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.537	65	168993	500.00	ug/L	0.01
3) pentafluorobenzene	6.570	168	523768	50.00	ug/L	0.01
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msv\1\databackup\v140107\
Data File : v26933.d
Acq On : 7 Jan 2014 12:56 pm
Operator : amym
Sample : ic1019-0.5
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 12 11:50:59 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



SGS ACCUTEST MC27893

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26934.d
Acq On : 7 Jan 2014 1:22 pm
Operator : amym
Sample : ic1019-1
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

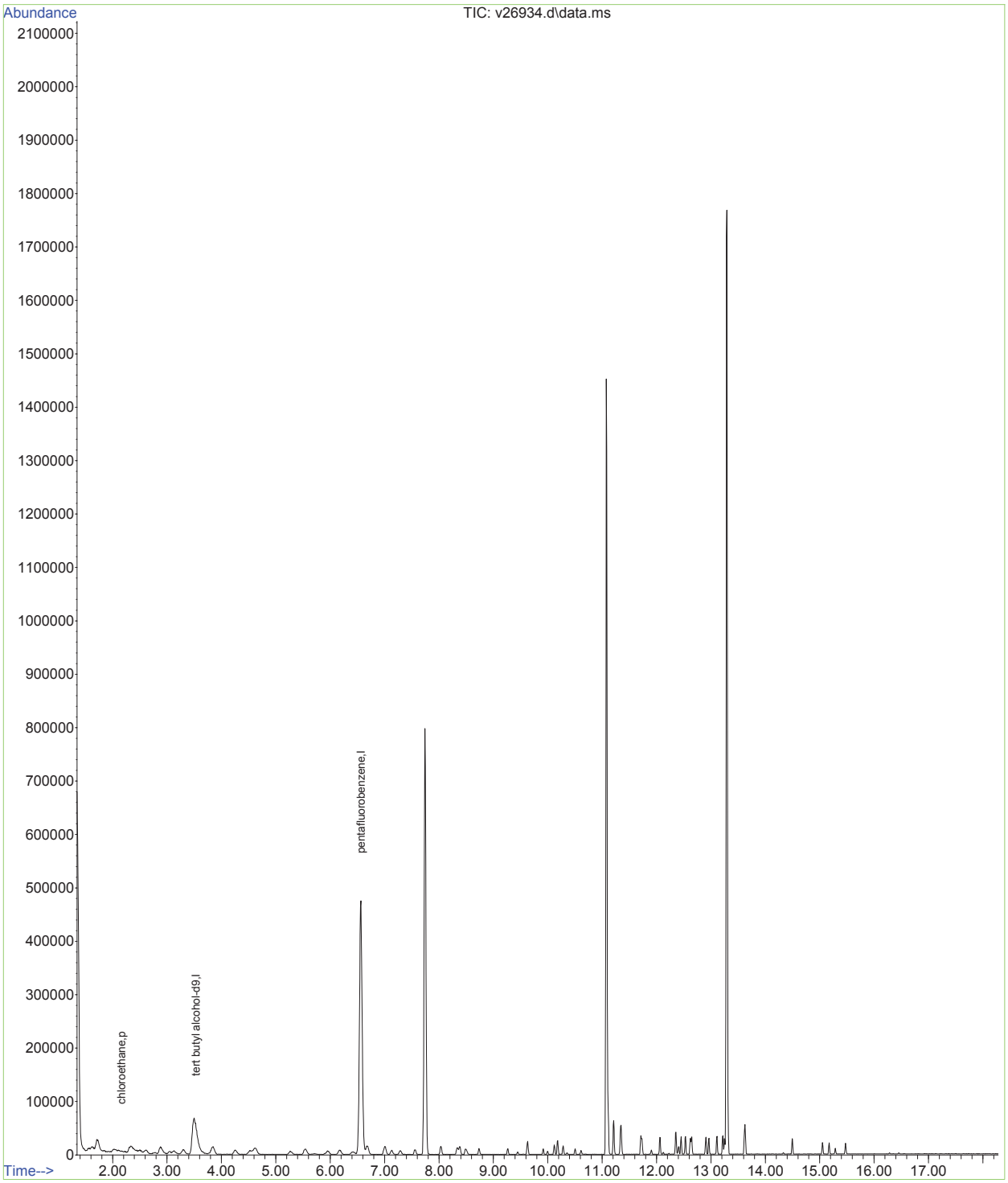
Quant Time: Oct 12 11:52:02 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.527	65	169438	500.00	ug/L	0.00
3) pentafluorobenzene	6.565	168	527887	50.00	ug/L	0.00
Target Compounds						Qvalue
4) chloroethane	2.159	64	7471m	1.74	ug/L	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

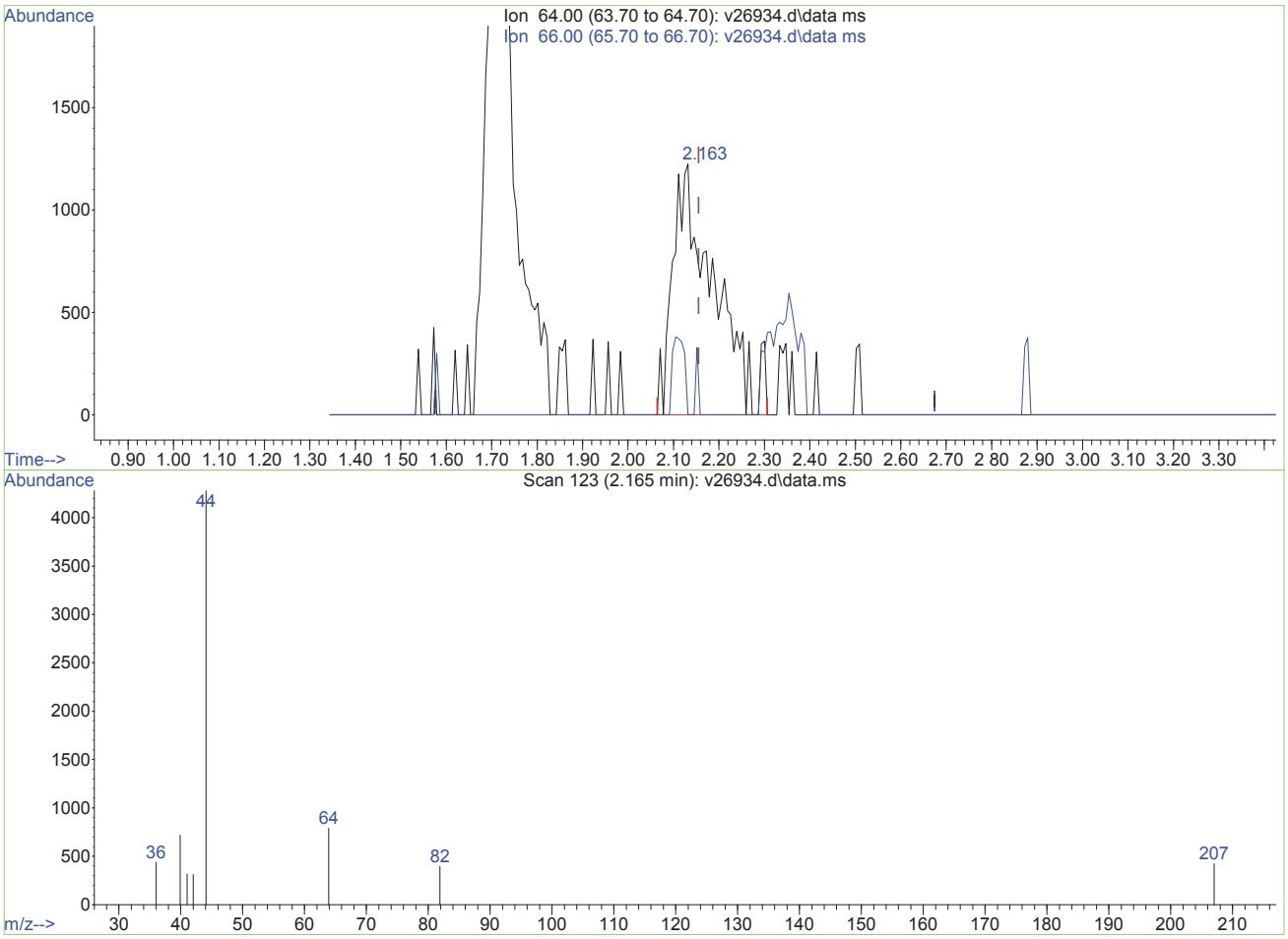
Data Path : O:\msv\1\databackup\v140107\
Data File : v26934.d
Acq On : 7 Jan 2014 1:22 pm
Operator : amym
Sample : ic1019-1
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 12 11:52:02 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Data Path : O:\msv\1\databackup\v140107\
Data File : v26934.d
Acq On : 7 Jan 2014 1:22 pm
Operator : amym
Sample : ic1019-1
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 12 11:49:53 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26934.d\data.ms

(4) chloroethane (p)

2.163min (+0.008) 1.81ug/L

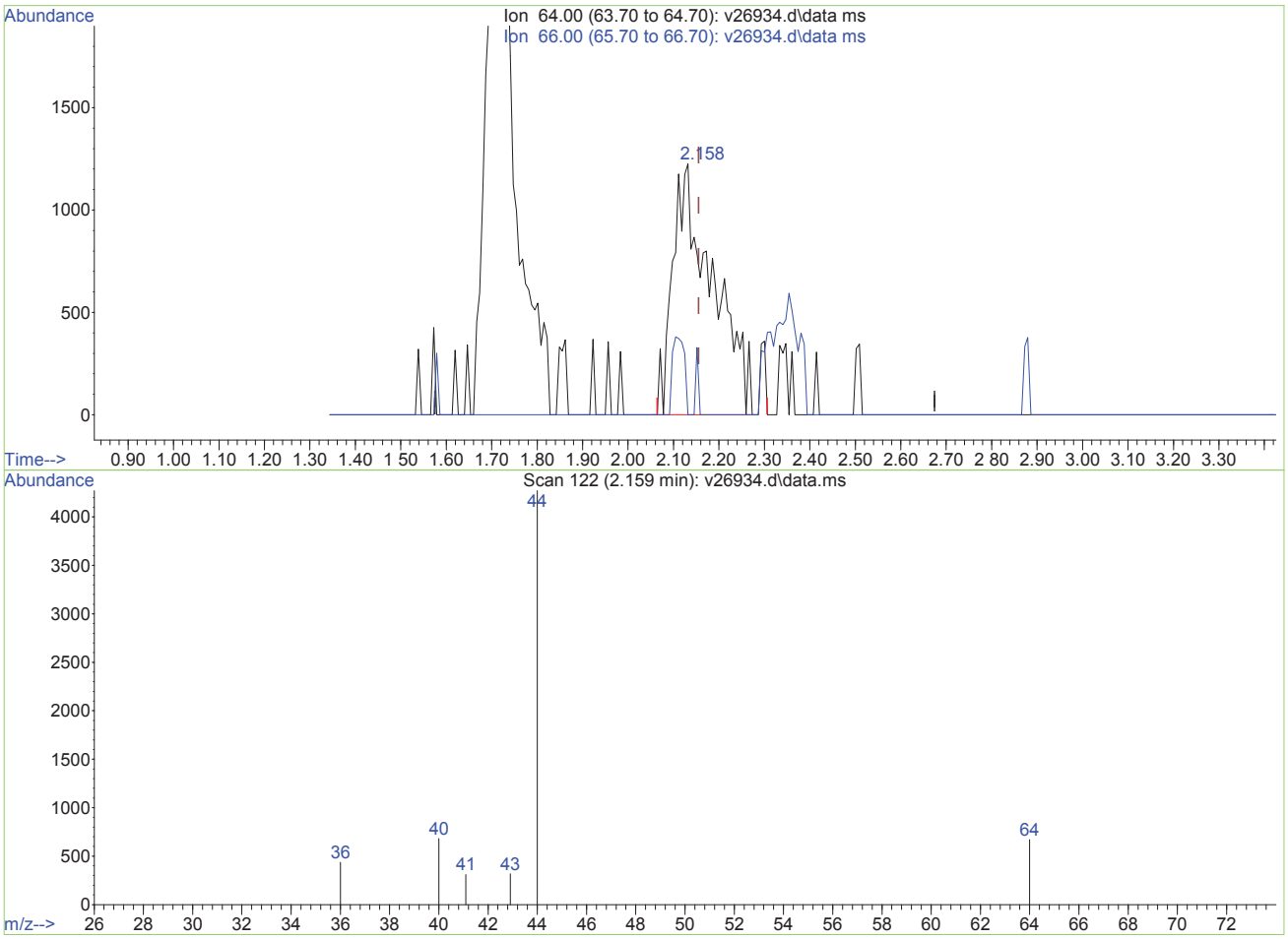
response 7756

Ion	Exp%	Act%
64.00	100	100
66.00	34.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26934.D edits: chloroethane

Data Path : O:\msv\1\databackup\v140107\
Data File : v26934.d
Acq On : 7 Jan 2014 1:22 pm
Operator : amym
Sample : ic1019-1
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 12 11:49:53 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26934.d\data.ms

(4) chloroethane (p)

2.159min (+0.003) 1.74ug/L m

response 7471

Ion	Exp%	Act%
64.00	100	100
66.00	34.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26934.D edits: chloroethane

SGS ACCUTEST MC27893

Data Path : O:\msv\1\databackup\v140107\
Data File : v26935.d
Acq On : 7 Jan 2014 1:49 pm
Operator : amym
Sample : ic1019-2
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

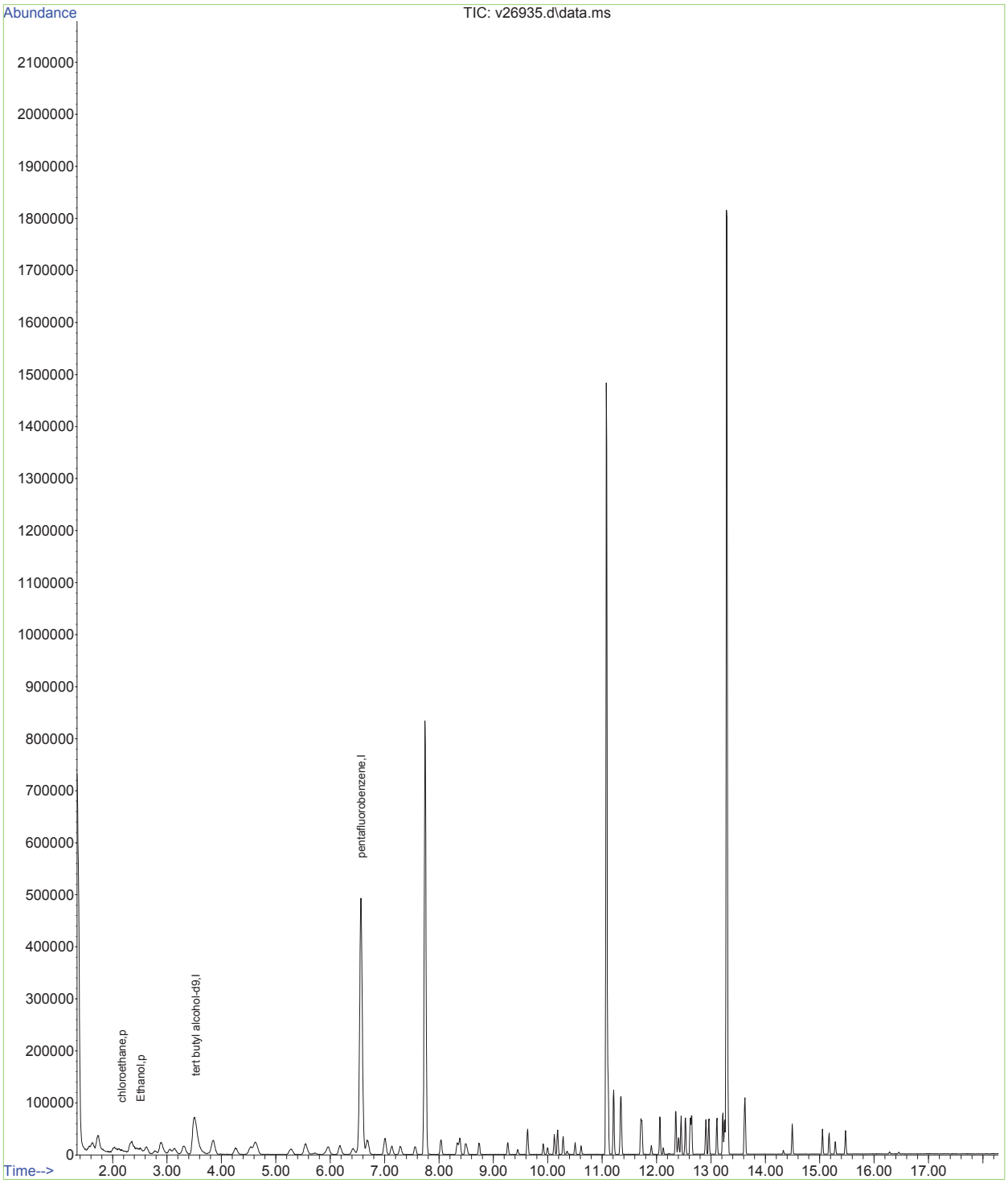
Quant Time: Oct 12 11:52:51 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.533	65	165100	500.00	ug/L	0.01
3) pentafluorobenzene	6.569	168	548060	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.516	45	10989m	474.44	ug/L	
4) chloroethane	2.170	64	11967	2.68	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

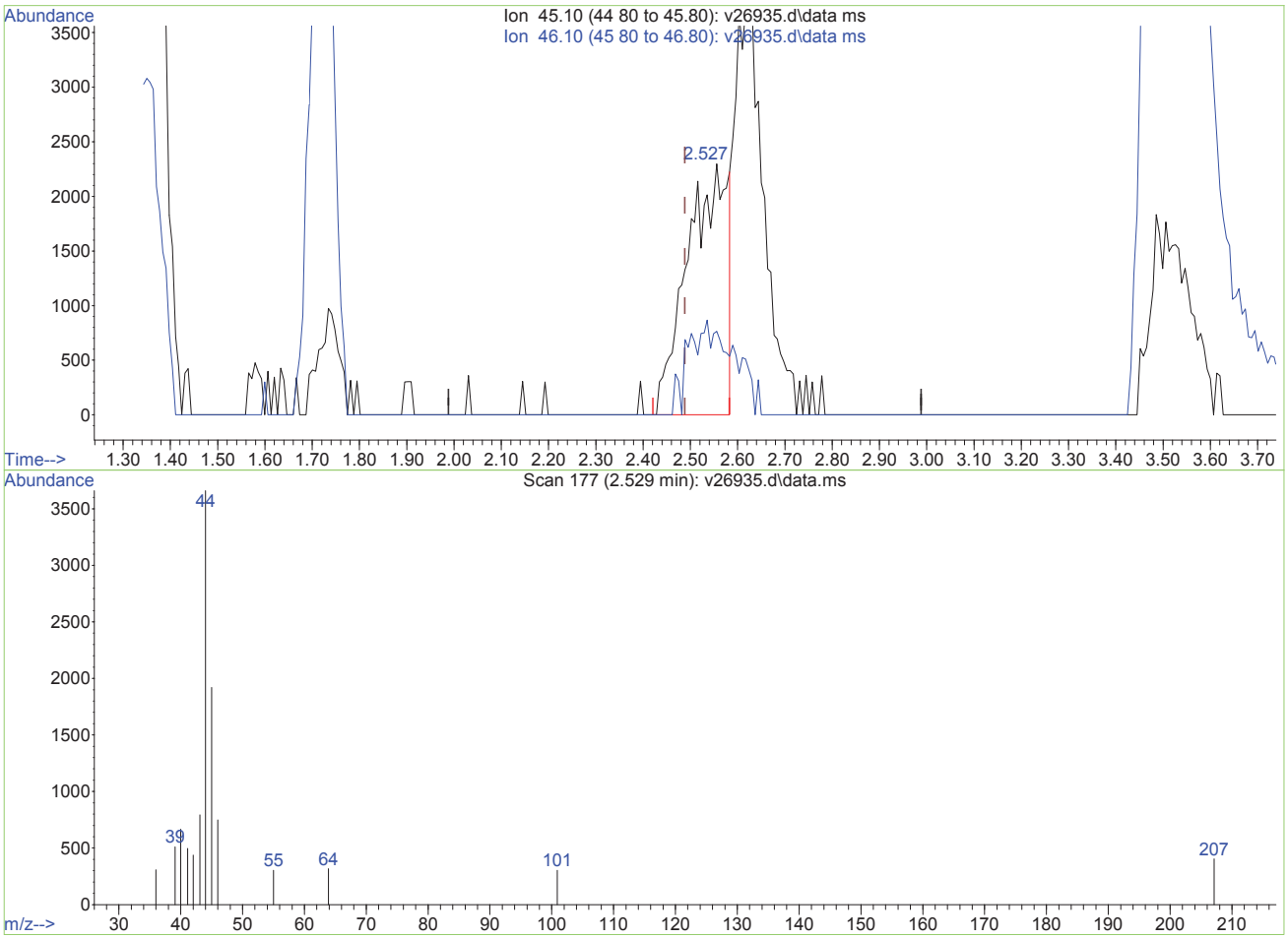
Data Path : O:\msv\1\databackup\v140107\
Data File : v26935.d
Acq On : 7 Jan 2014 1:49 pm
Operator : amym
Sample : ic1019-2
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 12 11:52:51 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Data Path : O:\msv\1\databackup\v140107\
Data File : v26935.d
Acq On : 7 Jan 2014 1:49 pm
Operator : amym
Sample : ic1019-2
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 12 11:49:55 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26935.d\data.ms

(2) Ethanol (p)

2.527min (+0.039) 585.36ug/L

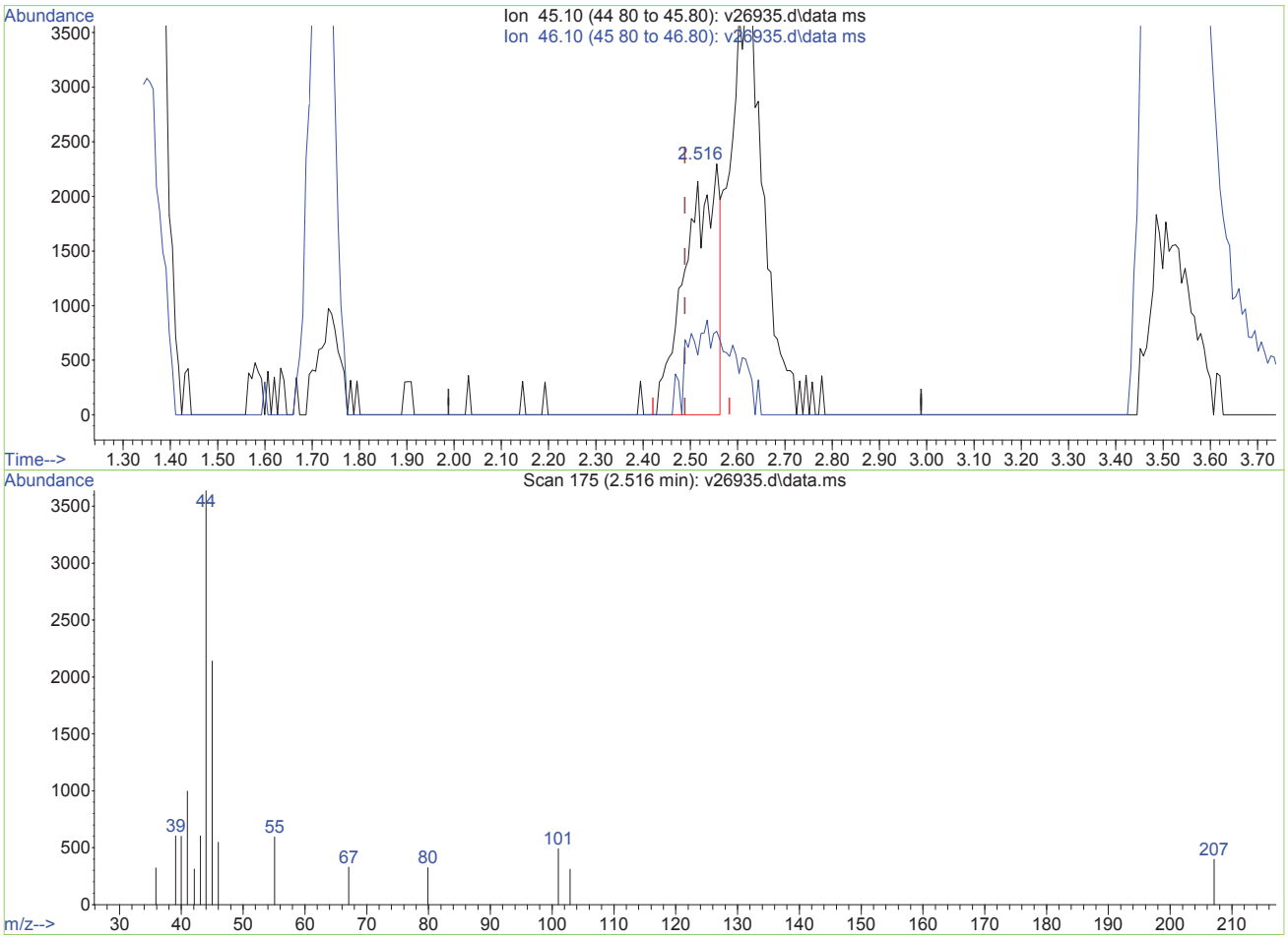
response 13558

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	43.04#
0.00	0.00	0.00
0.00	0.00	0.00

V26935.D edits: Ethanol

Data Path : O:\msv\1\databackup\v140107\
Data File : v26935.d
Acq On : 7 Jan 2014 1:49 pm
Operator : amym
Sample : ic1019-2
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 12 11:49:55 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26935.d\data.ms

(2) Ethanol (p)

2.516min (+0.027) 474.44ug/L m

response 10989

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	53.11#
0.00	0.00	0.00
0.00	0.00	0.00

V26935.D edits: Ethanol

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26936.d
Acq On : 7 Jan 2014 2:16 pm
Operator : amym
Sample : ic1019-5
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 12 11:49:57 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

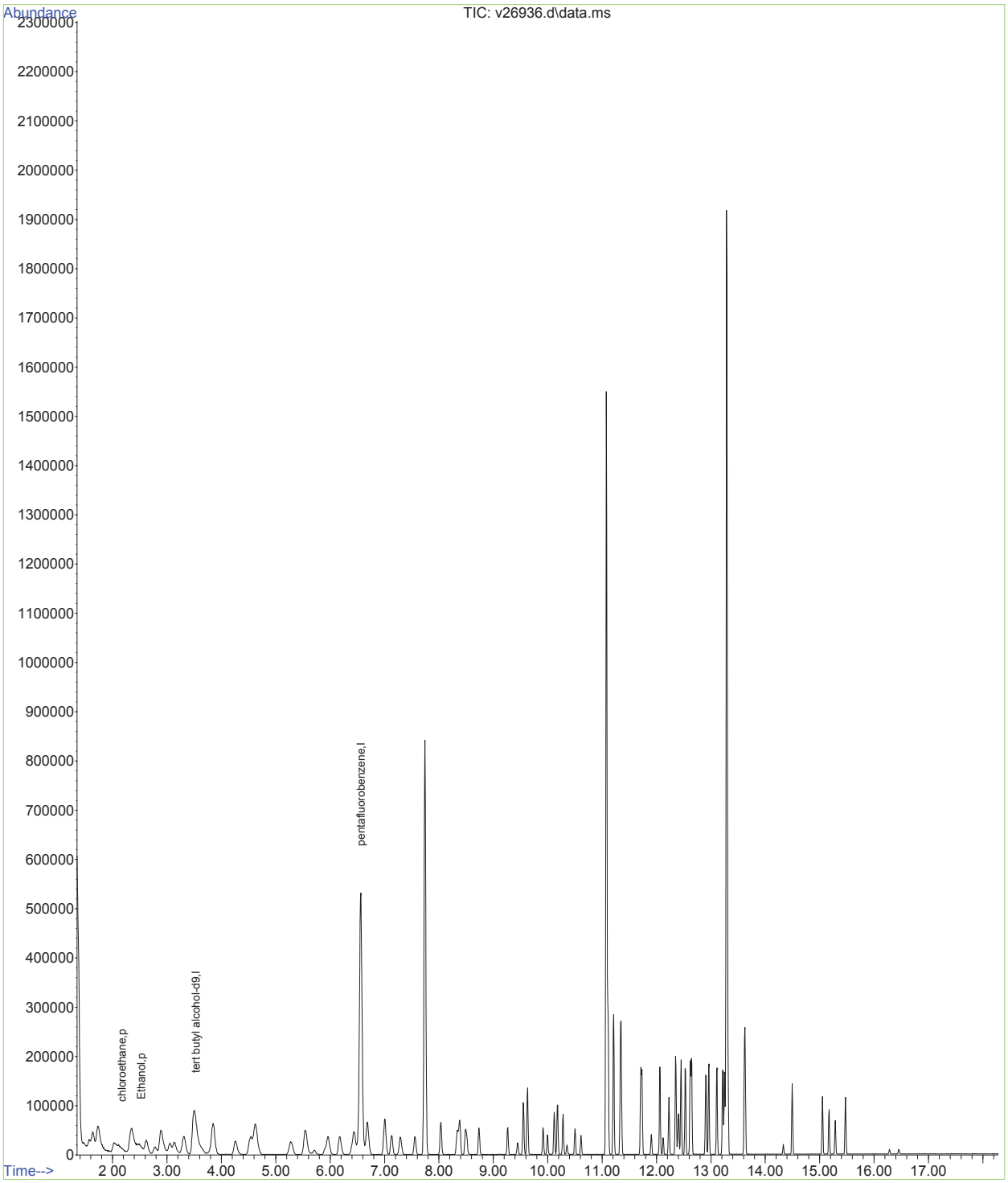
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.532	65	174193	500.00	ug/L	0.00
3) pentafluorobenzene	6.565	168	569450	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.523	45	24520	1003.38	ug/L	# 1
4) chloroethane	2.173	64	26754	5.77	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST MC27893

Data Path : O:\msv\1\databackup\v140107\
Data File : v26936.d
Acq On : 7 Jan 2014 2:16 pm
Operator : amym
Sample : ic1019-5
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 12 11:49:57 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Data Path : O:\msv\1\databackup\v140107\
Data File : v26937.d
Acq On : 7 Jan 2014 2:42 pm
Operator : amym
Sample : ic1019-10
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

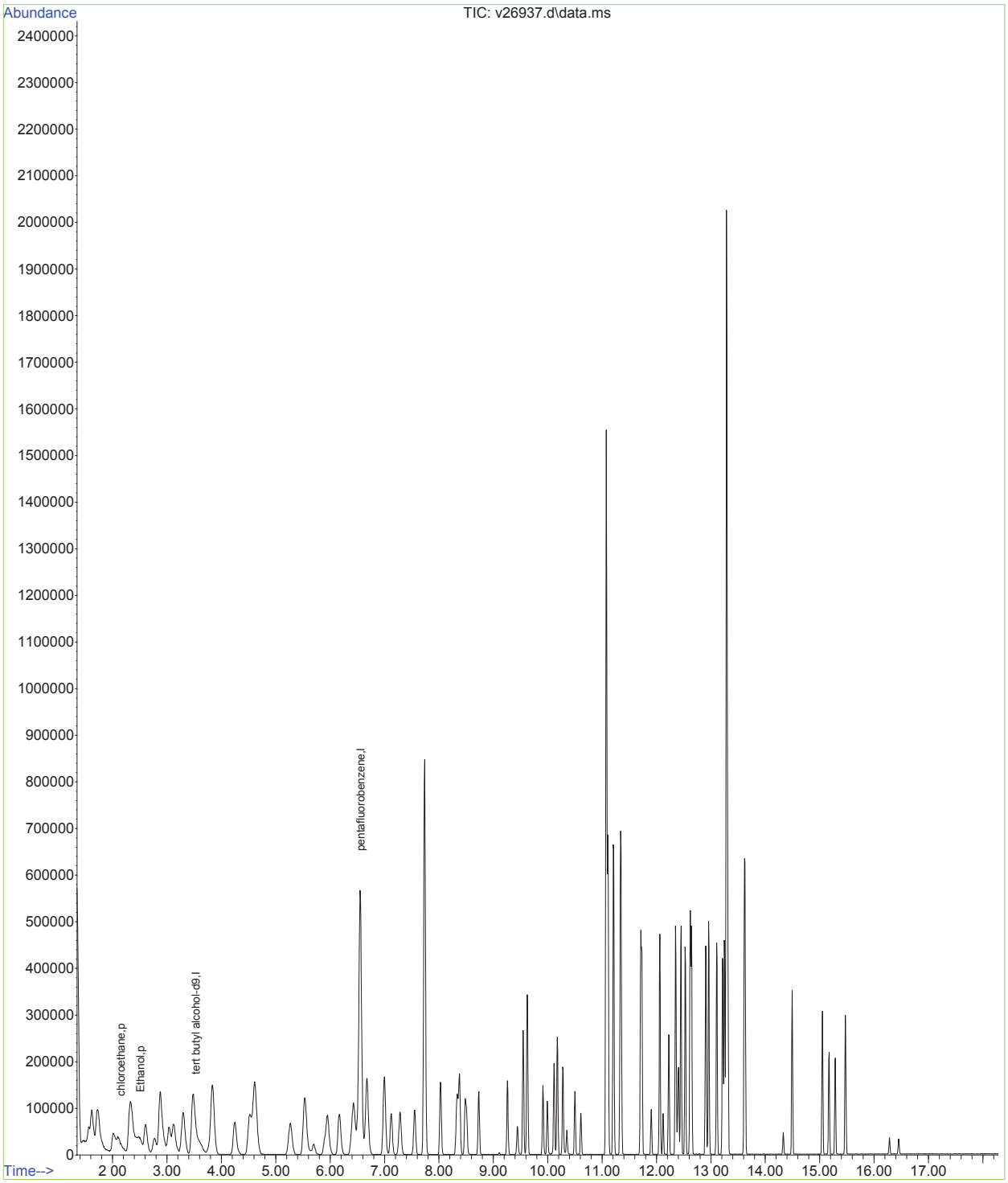
Quant Time: Oct 12 11:49:59 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.523	65	172384	500.00	ug/L	0.00
3) pentafluorobenzene	6.556	168	597997	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.509	45	48113	1989.48	ug/L	# 1
4) chloroethane	2.155	64	52409	10.77	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msv\1\databackup\v140107\
Data File : v26937.d
Acq On : 7 Jan 2014 2:42 pm
Operator : amym
Sample : ic1019-10
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 12 11:49:59 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Data Path : O:\msv\1\databackup\v140107\
Data File : v26938.d
Acq On : 7 Jan 2014 3:08 pm
Operator : amym
Sample : icc1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

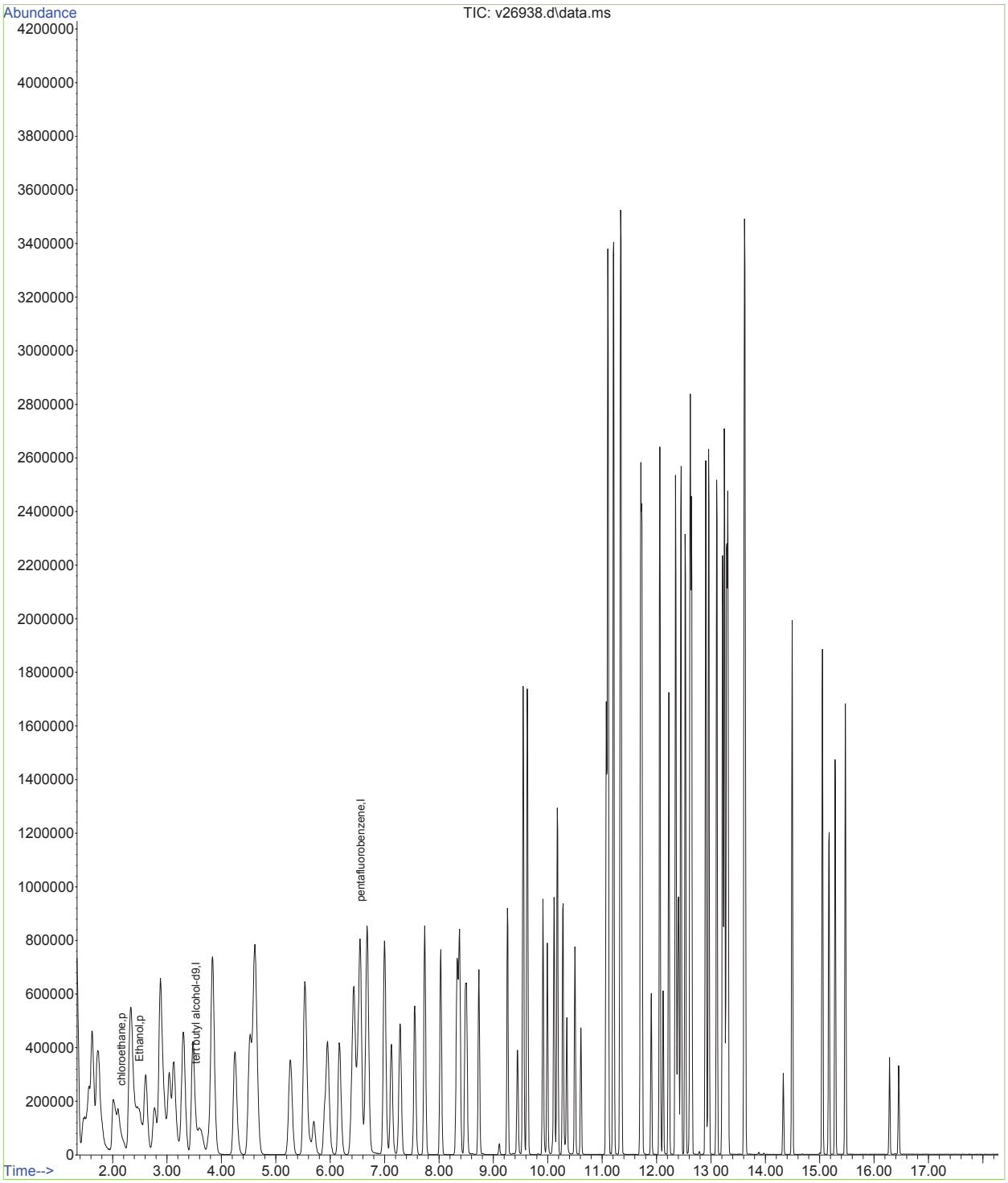
Quant Time: Oct 12 11:54:24 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.524	65	196490	500.00	ug/L	0.00
3) pentafluorobenzene	6.559	168	650576	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.489	45	137020m	4970.70	ug/L	
4) chloroethane	2.155	64	264750	50.00	ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

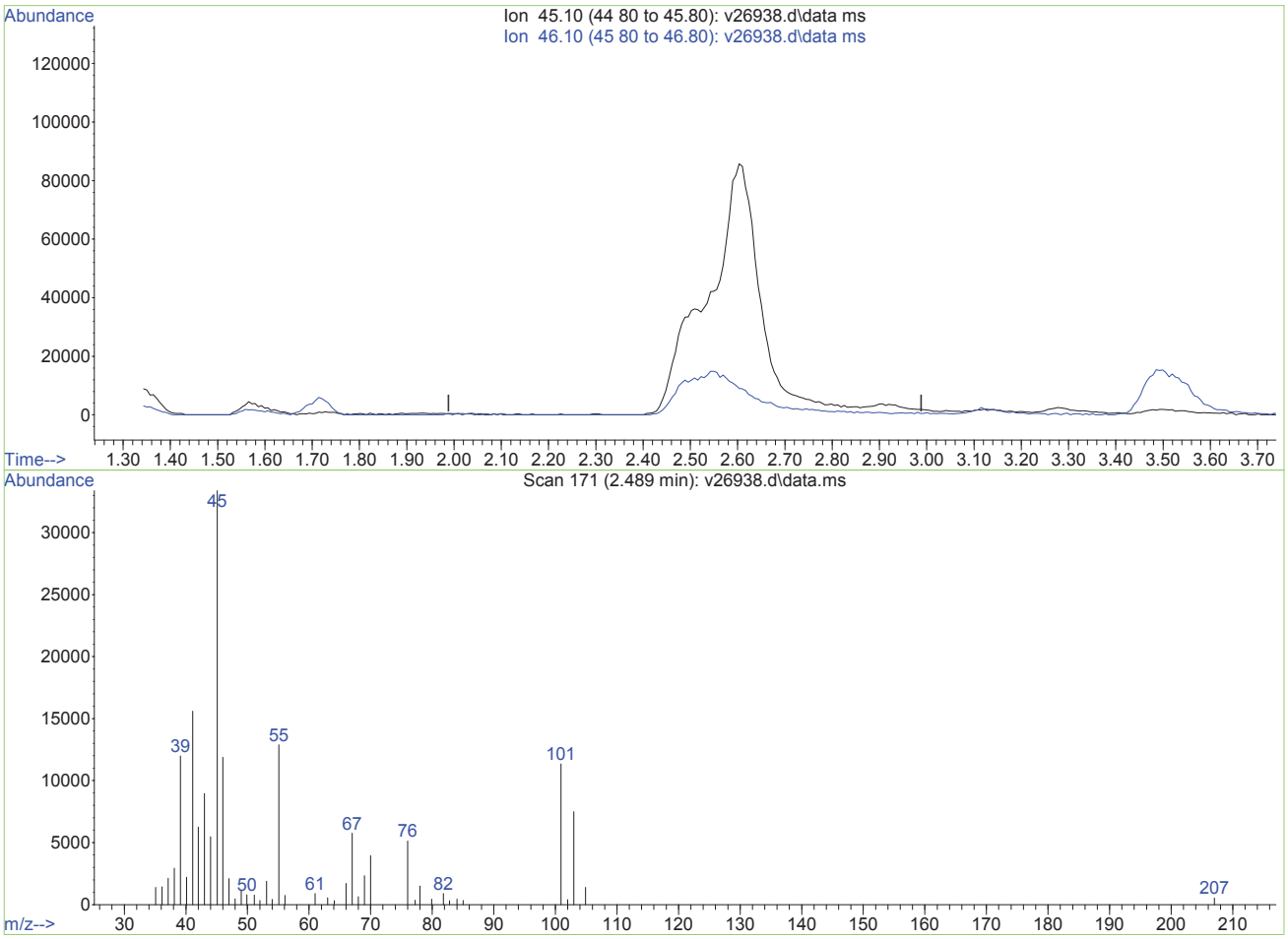
Data Path : O:\msv\1\databackup\v140107\
Data File : v26938.d
Acq On : 7 Jan 2014 3:08 pm
Operator : amym
Sample : icc1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 12 11:54:24 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Data Path : O:\msv\1\databackup\v140107\
Data File : v26938.d
Acq On : 7 Jan 2014 3:08 pm
Operator : amym
Sample : icc1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 12 11:50:01 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26938.d\data.ms

(2) Ethanol (p)

2.489min (-2.489) 0.00ug/L

response 0

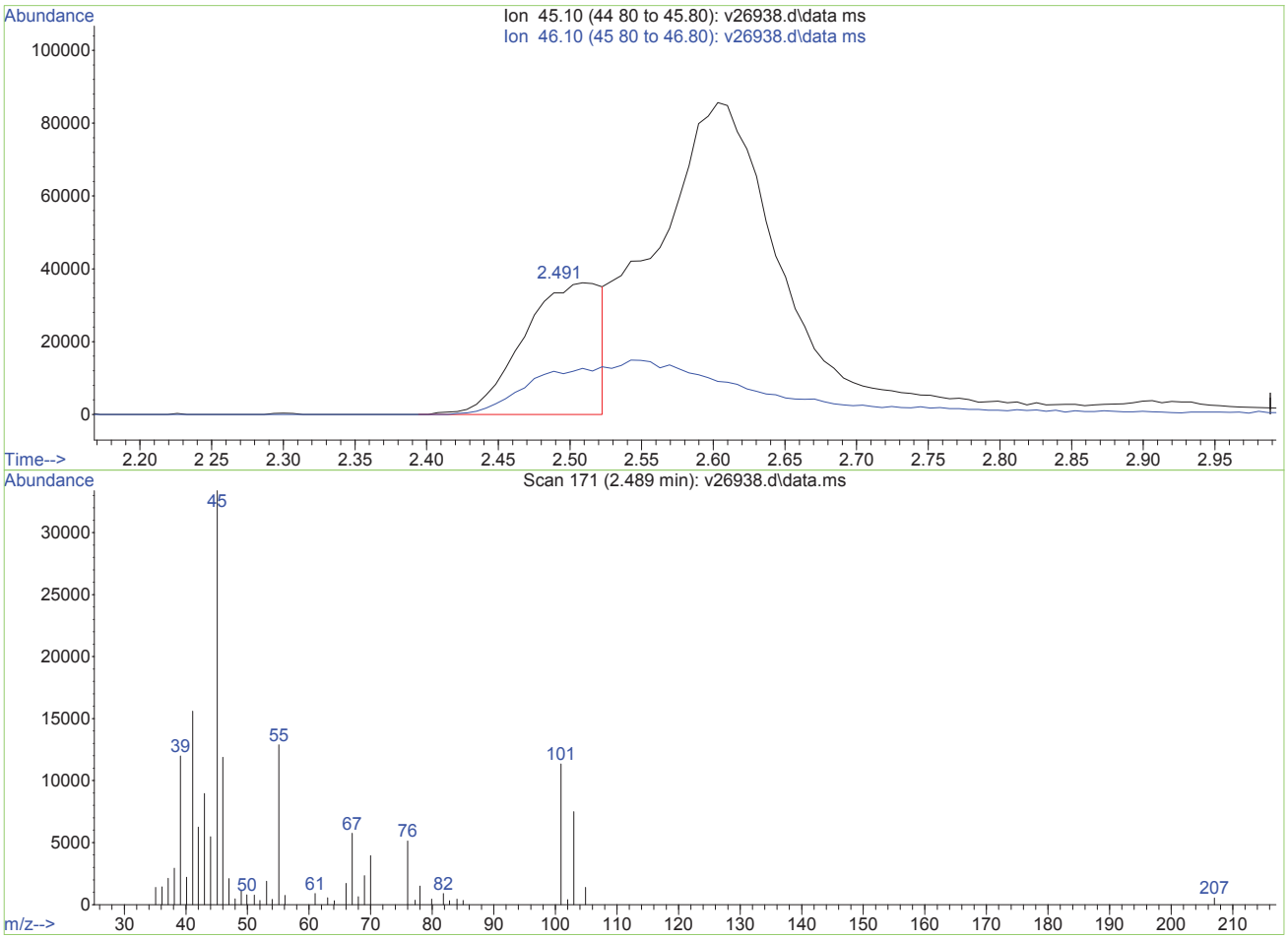
Ion	Exp%	Act%
45.10	100	0.00
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26938.D edits: Ethanol

SGS ACCUTEST MC27893

Data Path : O:\msv\1\databackup\v140107\
Data File : v26938.d
Acq On : 7 Jan 2014 3:08 pm
Operator : amym
Sample : icc1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 12 11:50:01 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26938.d\data.ms

(2) Ethanol (p)

2.489min (0.000) 4970.70ug/L m

response 137020

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26938.D edits: Ethanol

SGS ACCUTEST MC27893

Data Path : O:\msv\1\databackup\v140107\
Data File : v26939.d
Acq On : 7 Jan 2014 3:35 pm
Operator : amym
Sample : ic1019-100
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

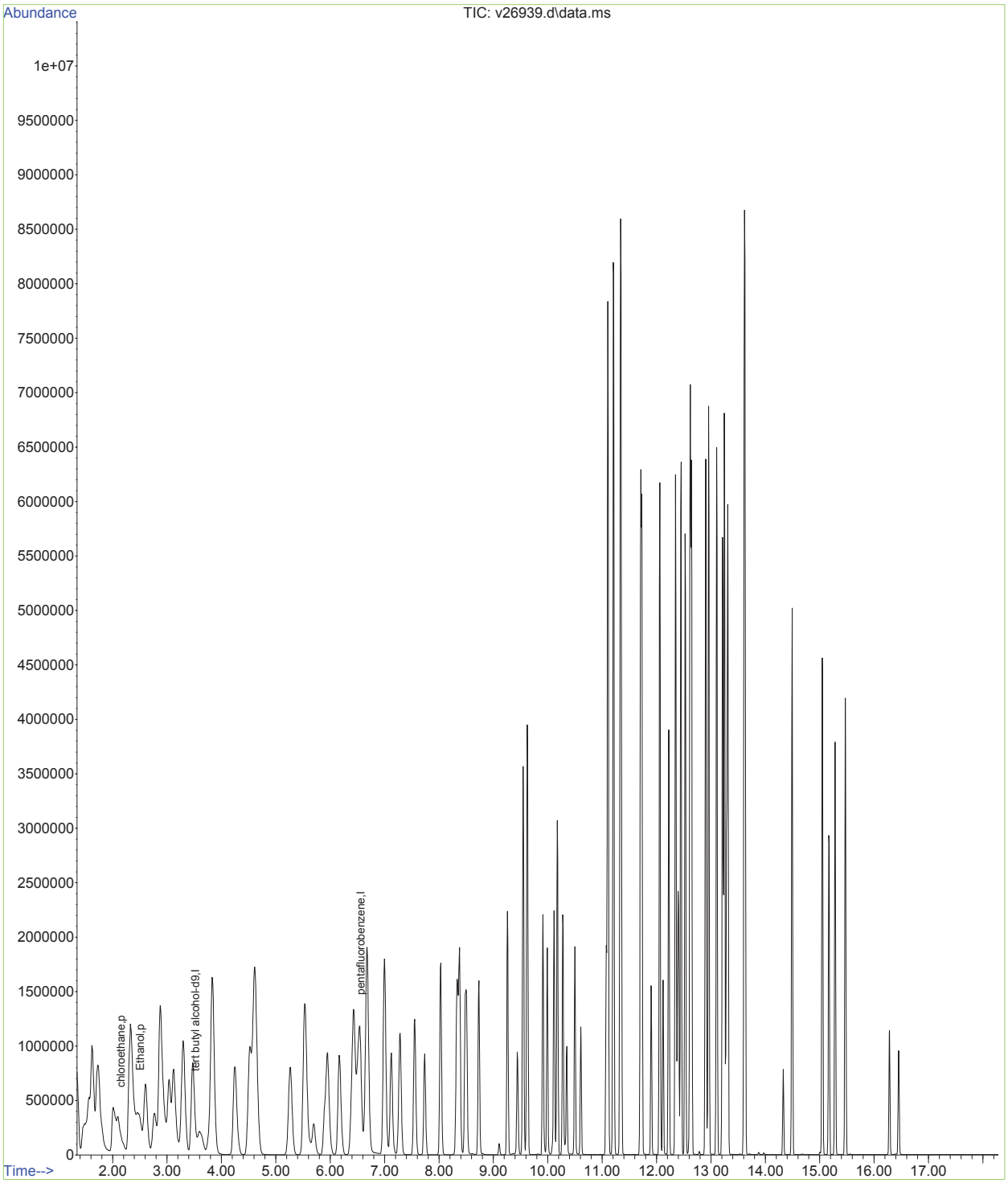
Quant Time: Oct 12 11:55:09 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.521	65	218199	500.00	ug/L	0.00
3) pentafluorobenzene	6.558	168	709327	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.502	45	415447m	13571.79	ug/L	
4) chloroethane	2.151	64	566729	98.17	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

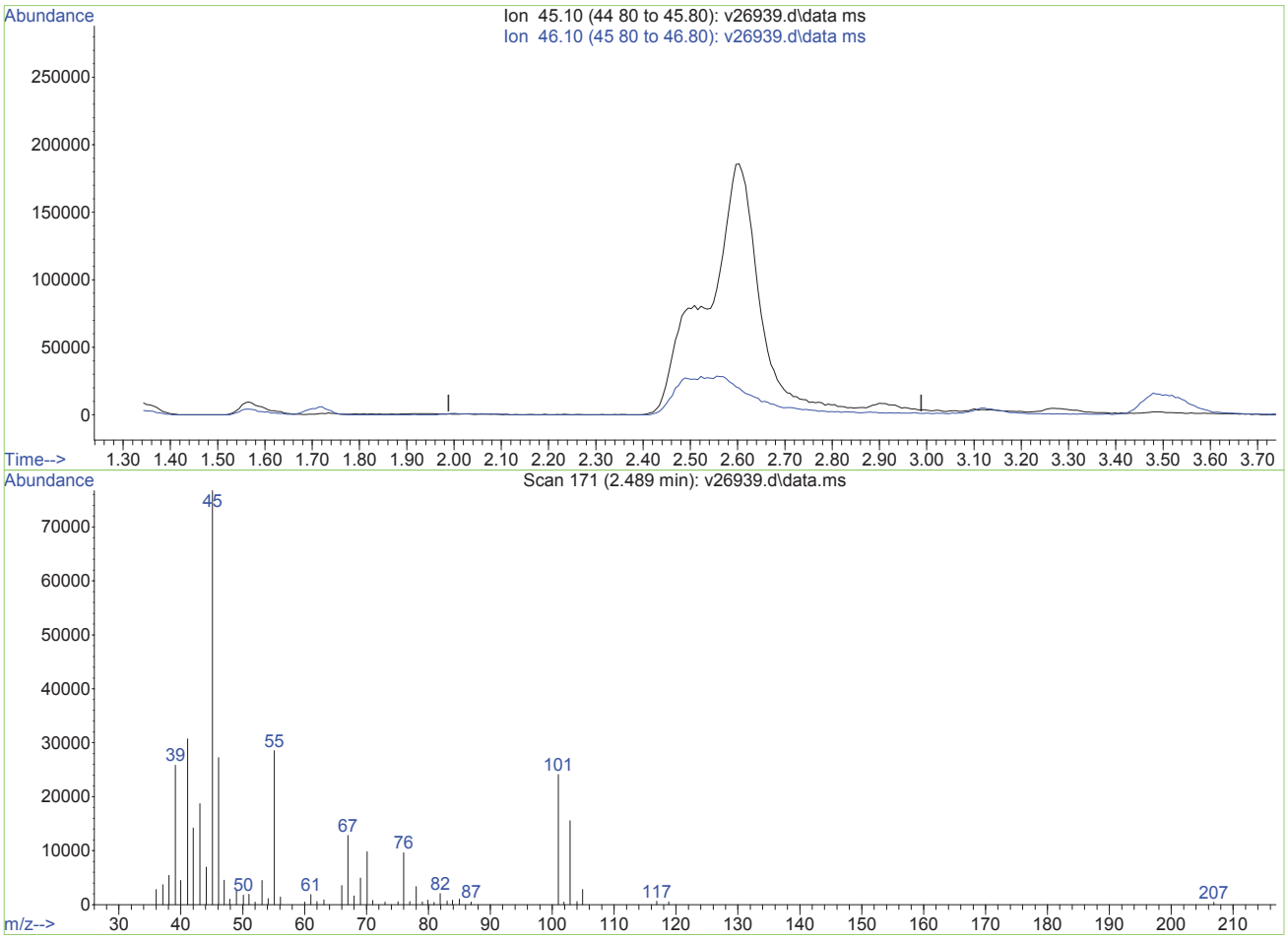
Data Path : O:\msv\1\databackup\v140107\
Data File : v26939.d
Acq On : 7 Jan 2014 3:35 pm
Operator : amym
Sample : ic1019-100
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 12 11:55:09 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Data Path : O:\msv\1\databackup\v140107\
Data File : v26939.d
Acq On : 7 Jan 2014 3:35 pm
Operator : amym
Sample : ic1019-100
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 12 11:50:03 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26939.d\data.ms

(2) Ethanol (p)

2.489min (-2.489) 0.00ug/L

response 0

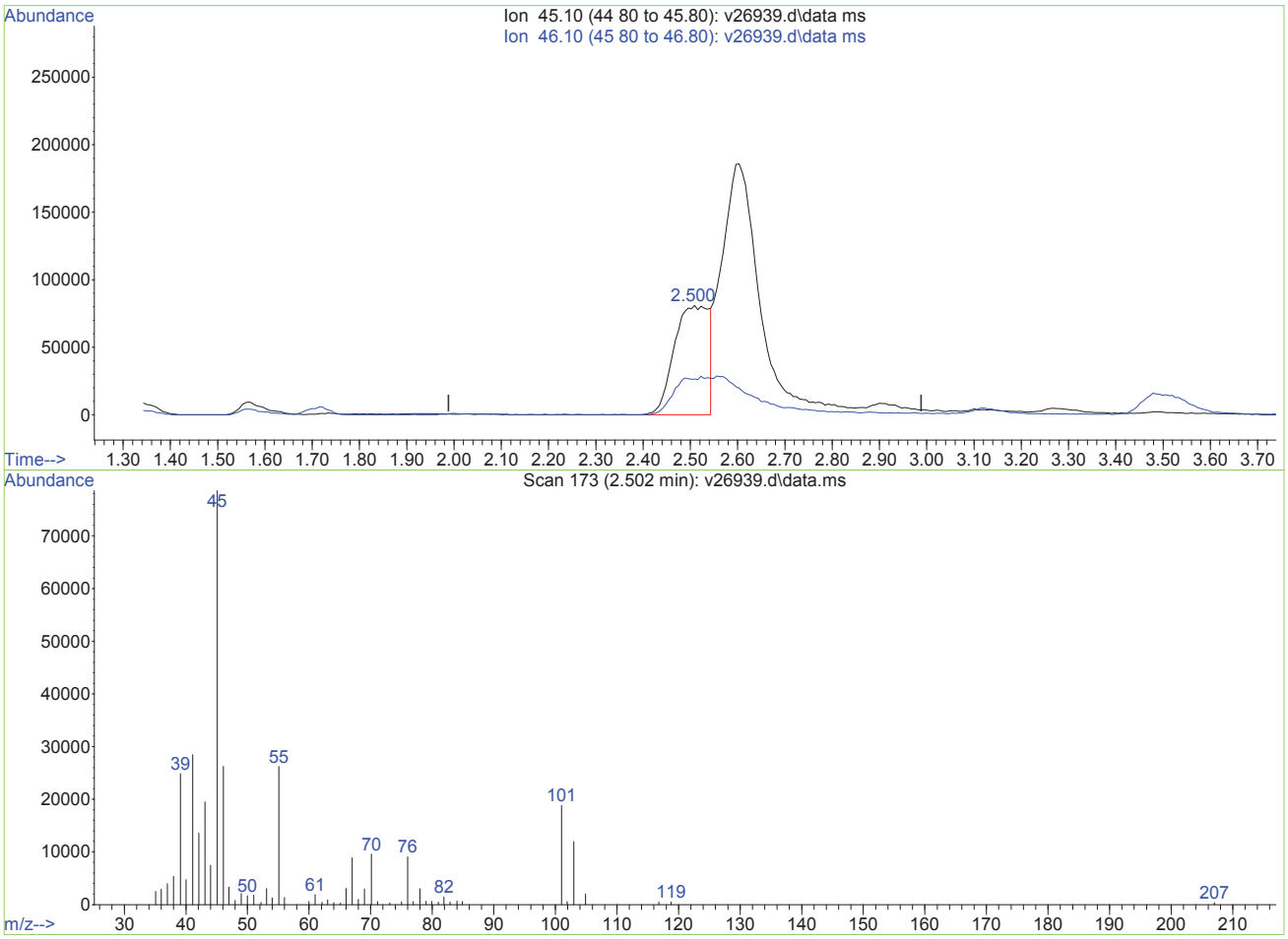
Ion	Exp%	Act%
45.10	100	0.00
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26939.D edits: Ethanol

Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26939.d
Acq On : 7 Jan 2014 3:35 pm
Operator : amym
Sample : ic1019-100
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 12 11:50:03 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26939.d\data.ms

(2) Ethanol (p)

2.502min (+0.013) 13571.79ug/L m

response 415447

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26939.D edits: Ethanol

SGS ACCUTEST MC27893

Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

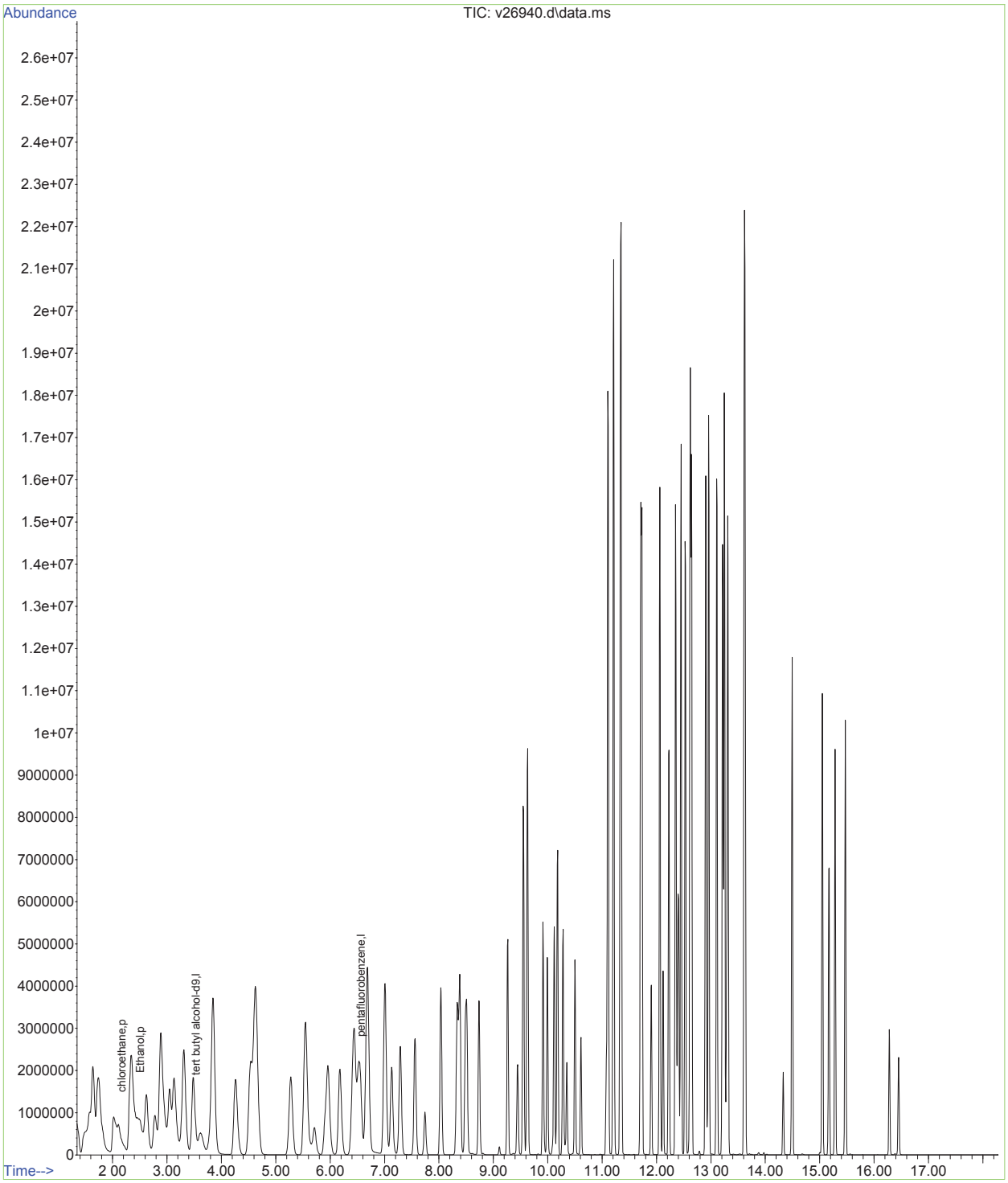
Quant Time: Oct 12 11:56:38 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) tert butyl alcohol-d9	3.526	65	248311m	500.00 ug/L	0.00
3) pentafluorobenzene	6.565	168	827373	50.00 ug/L	0.00
Target Compounds					Qvalue
2) Ethanol	2.502	45	690608m	19824.86 ug/L	
4) chloroethane	2.165	64	1217177m	180.75 ug/L	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

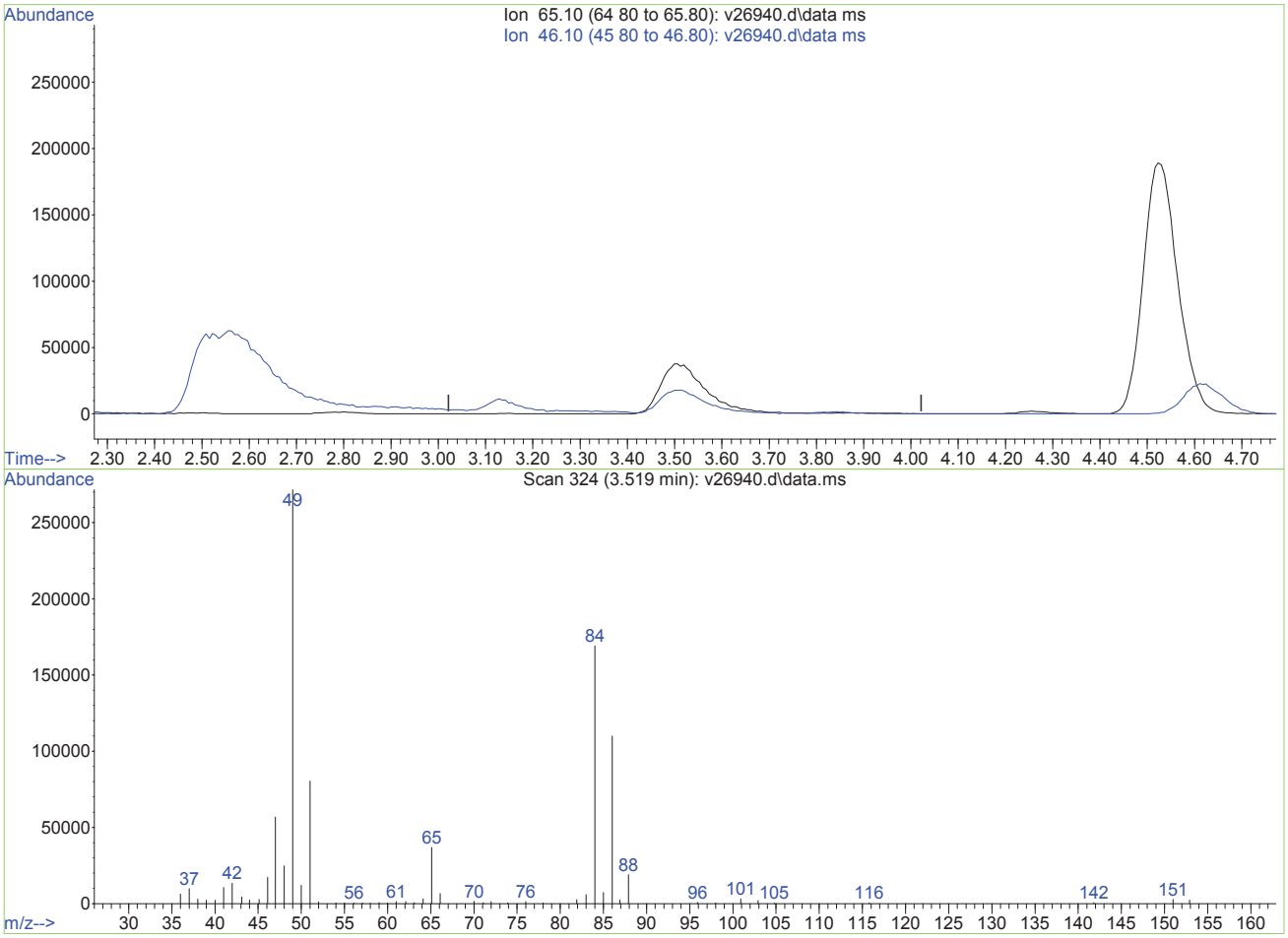
Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:56:38 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:50:05 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26940.d\data.ms

(1) tert butyl alcohol-d9 (I)

3.522min (-3.522) 0.00ug/L

response 0

Ion	Exp%	Act%
65.10	100	0.00
46.10	54.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

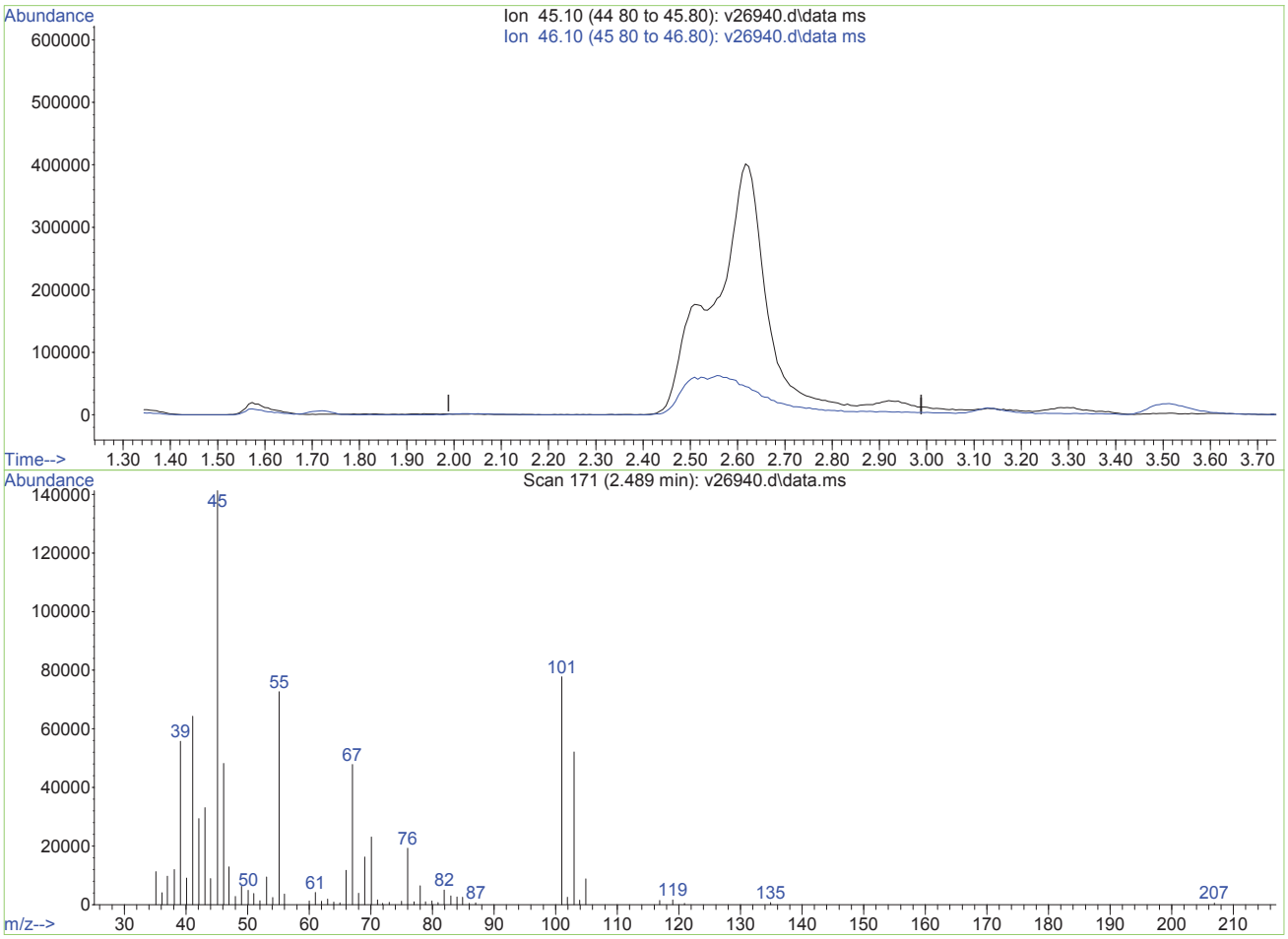
V26940.D edits: tert butyl alcohol-d9

SGS ACCUTEST MC27893

Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:50:05 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26940.d\data.ms

(2) Ethanol (p)

2.489min (-2.489) 0.00ug/L

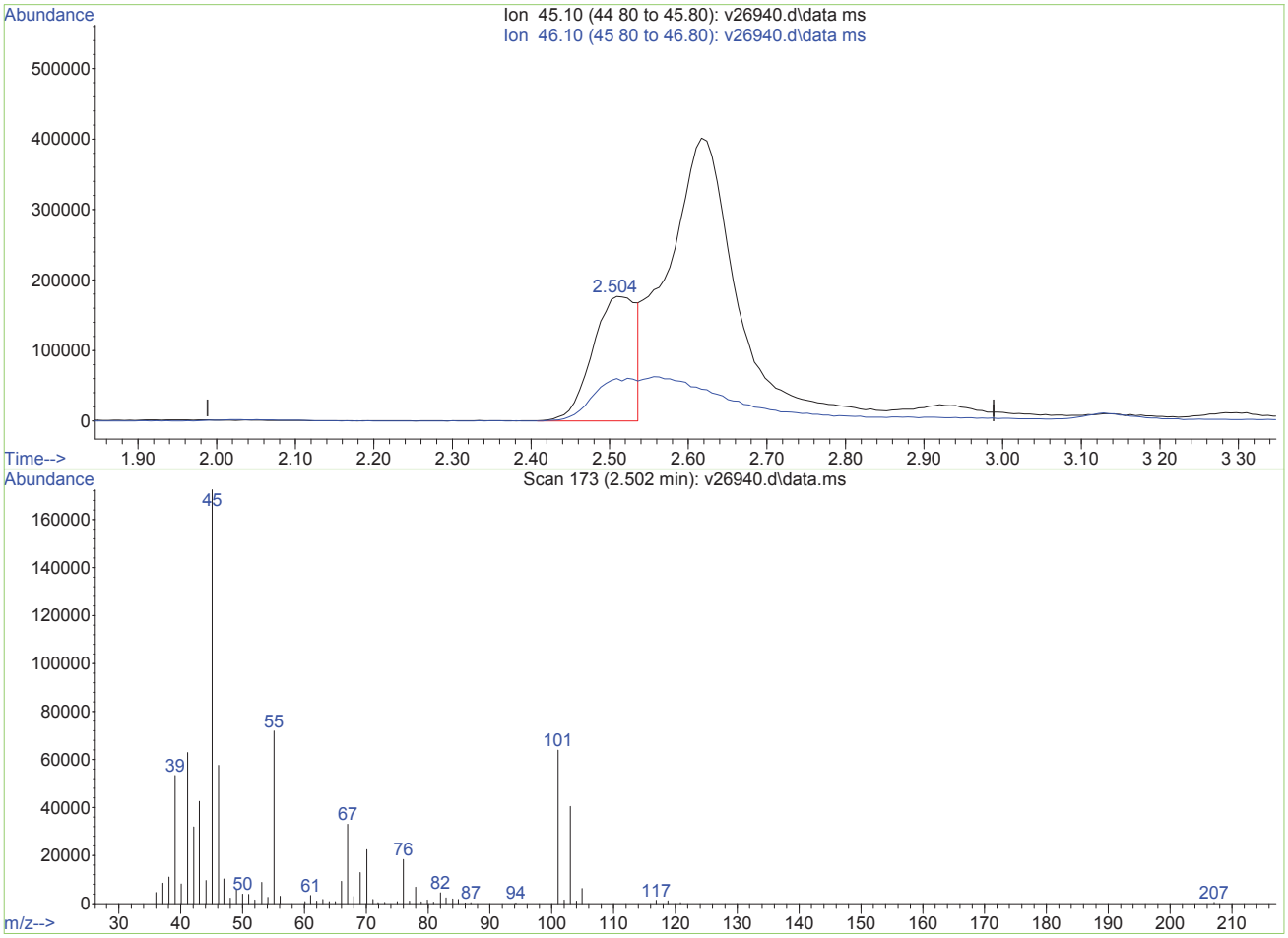
response 0

Ion	Exp%	Act%
45.10	100	0.00
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26940.D edits: Ethanol

Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:50:05 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26940.d\data.ms

(2) Ethanol (p)

2.502min (+0.014) 19824.86ug/L m

response 690608

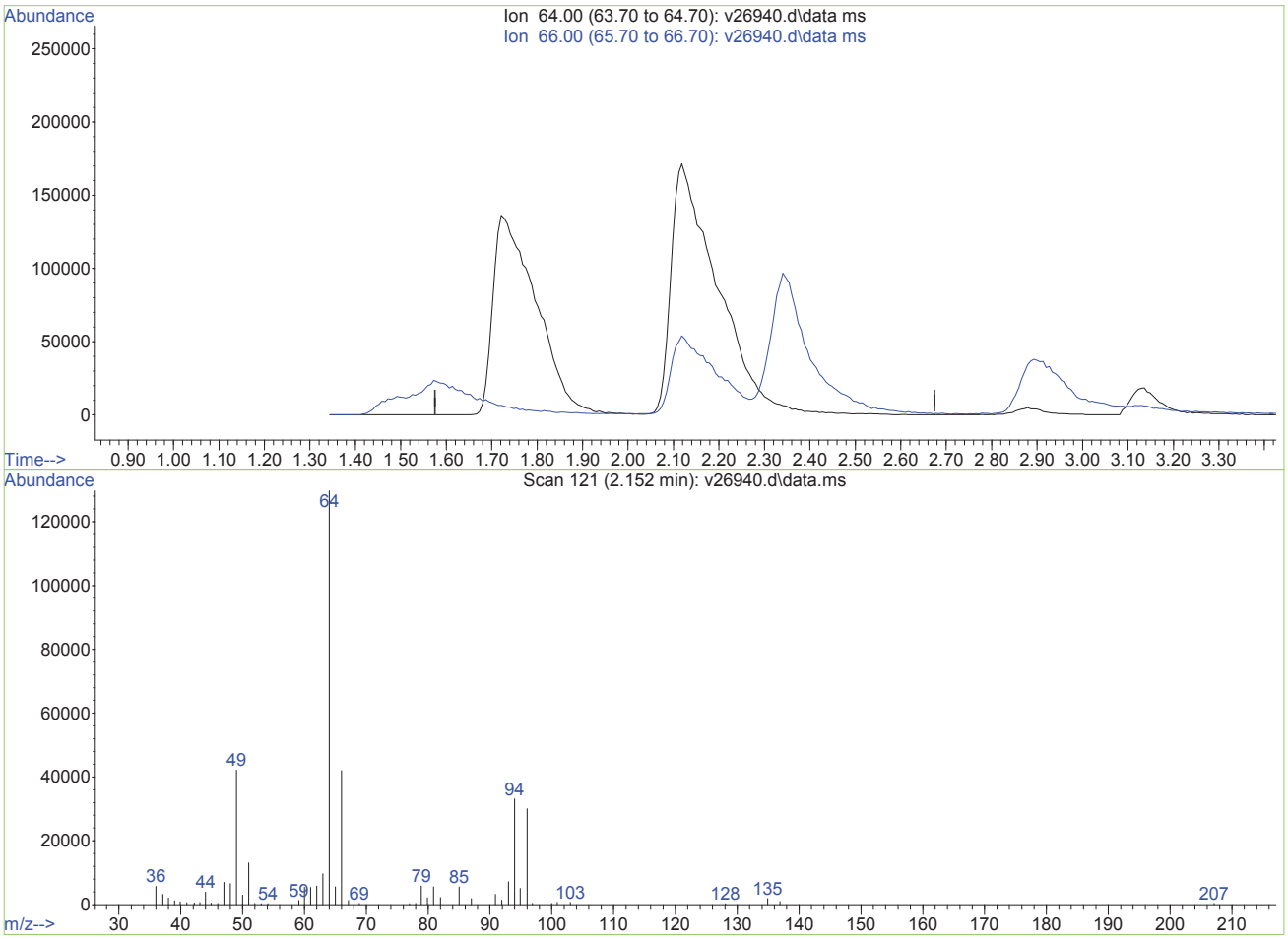
Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26940.D edits: Ethanol

Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:50:05 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26940.d\data.ms

(4) chloroethane (p)

2.155min (-2.155) 0.00ug/L

response 0

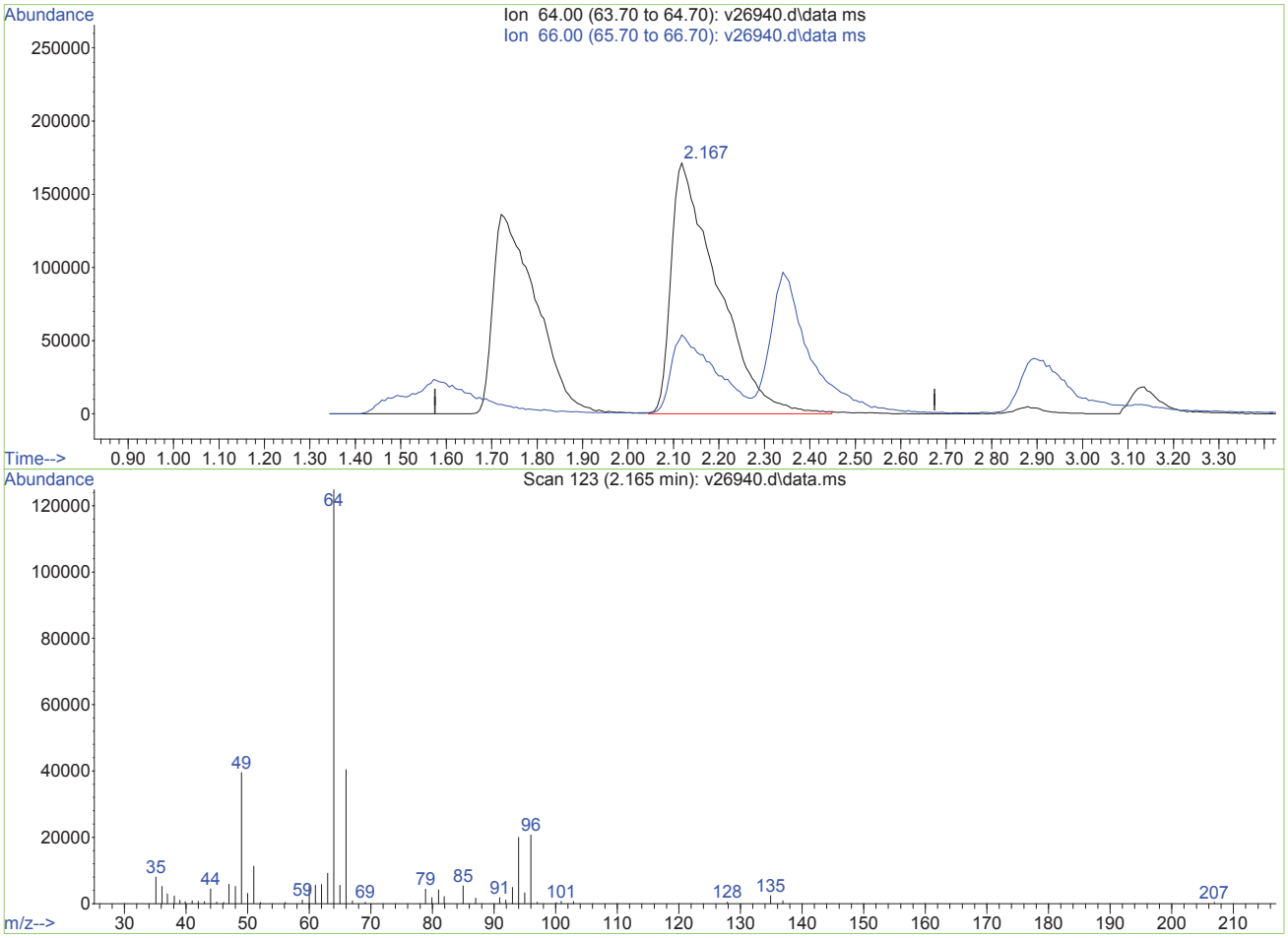
Ion	Exp%	Act%
64.00	100	0.00
66.00	34.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26940.D edits: chloroethane

Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:50:05 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26940.d\data.ms

(4) chloroethane (p)

2.165min (+0.010) 180.75ug/L m

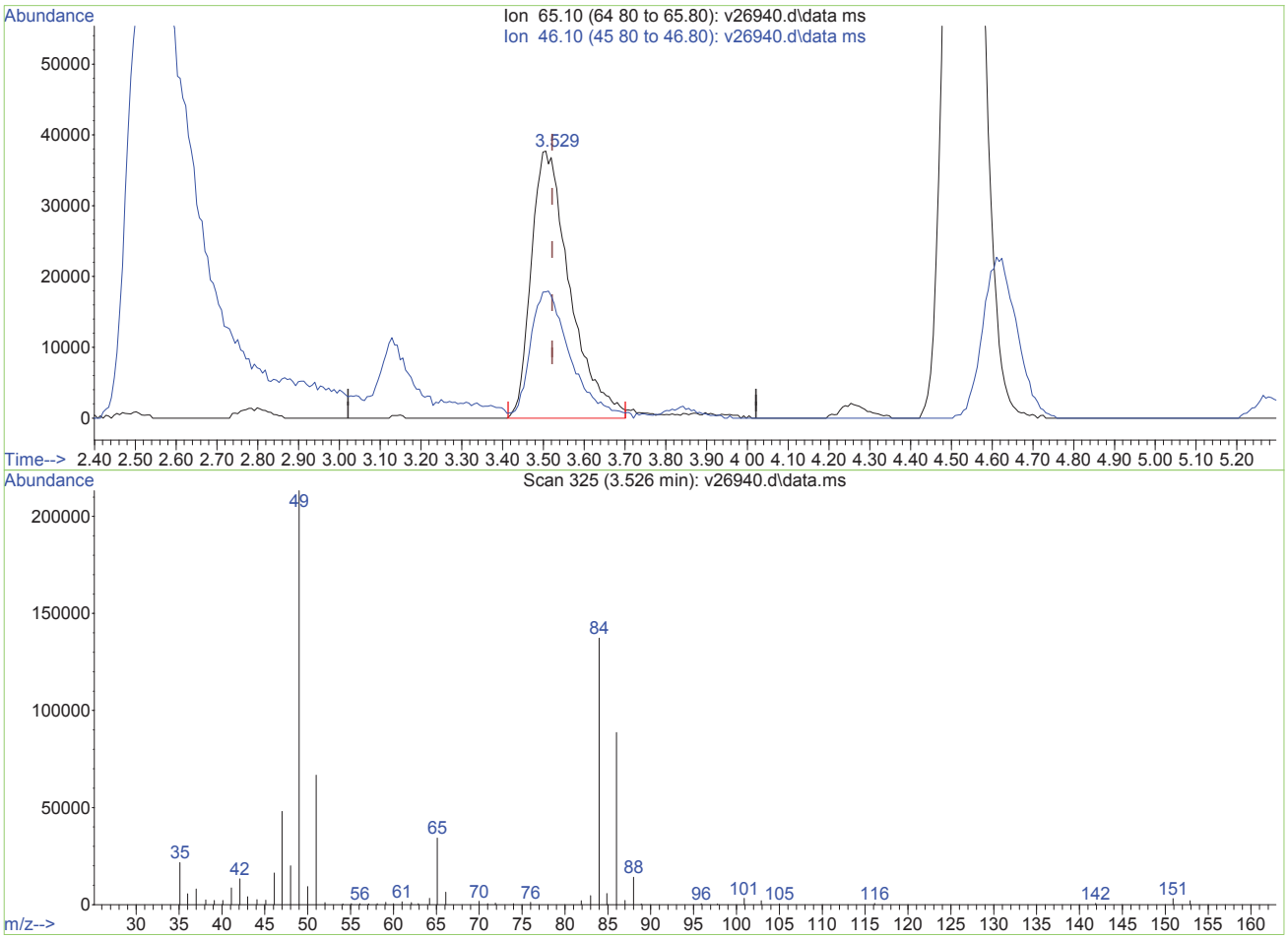
response 1217177

Ion	Exp%	Act%
64.00	100	100
66.00	34.60	32.37
0.00	0.00	0.00
0.00	0.00	0.00

V26940.D edits: chloroethane

Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:56:38 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26940.d\data.ms

(1) tert butyl alcohol-d9 (I)

3.526min (+0.004) 500.00ug/L m

response 248311

Ion	Exp%	Act%
65.10	100	100
46.10	54.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26940.D edits: tert butyl alcohol-d9

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26942.d
Acq On : 7 Jan 2014 5:47 pm
Operator : amym
Sample : ic1019-400
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 12 11:57:12 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

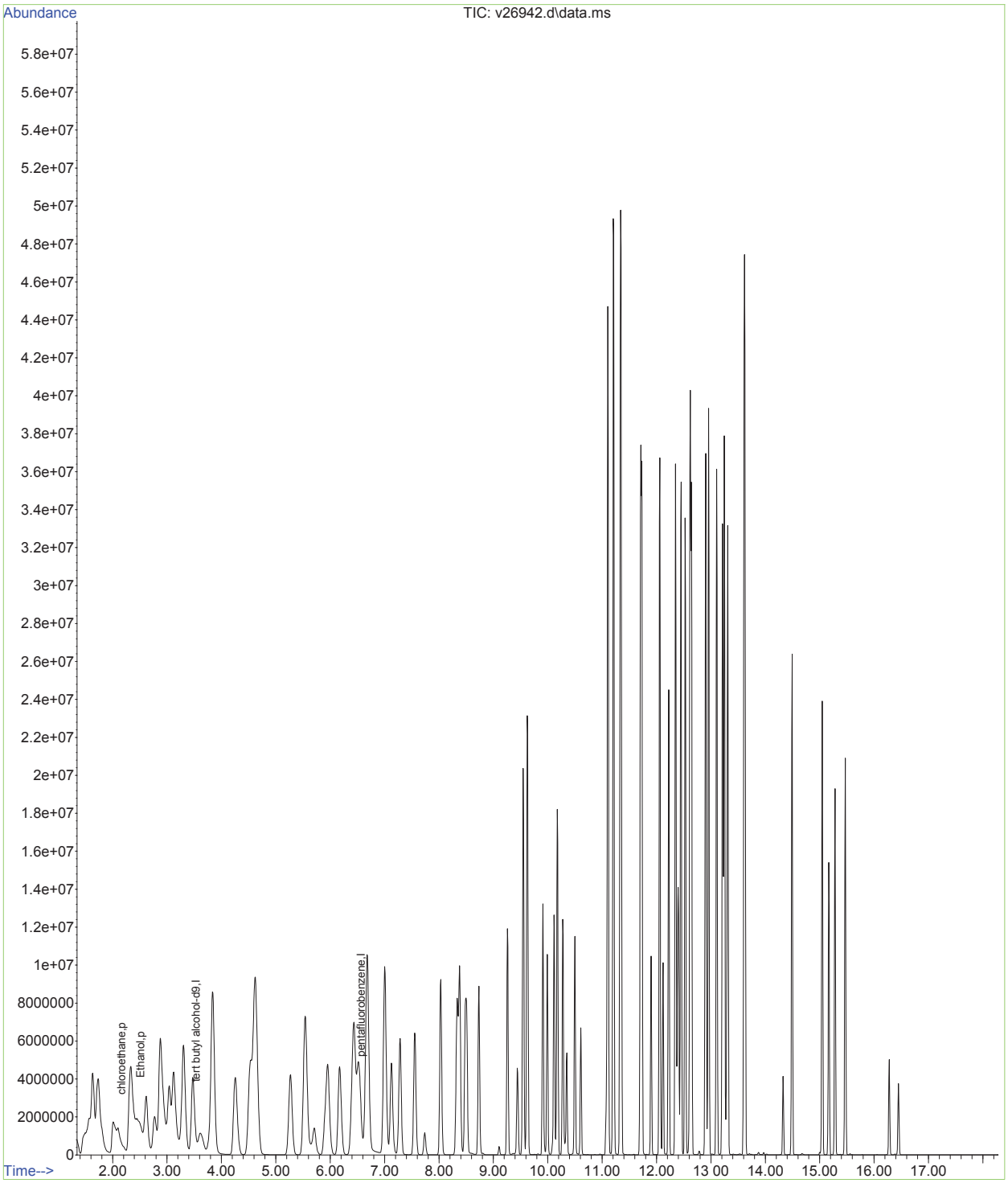
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) tert butyl alcohol-d9	3.528	65	280929	500.00 ug/L	0.00
3) pentafluorobenzene	6.561	168	994052	50.00 ug/L	0.00
Target Compounds					Qvalue
2) Ethanol	2.509	45	1732790m	43966.69 ug/L	
4) chloroethane	2.160	64	2471921	305.53 ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST MC27893

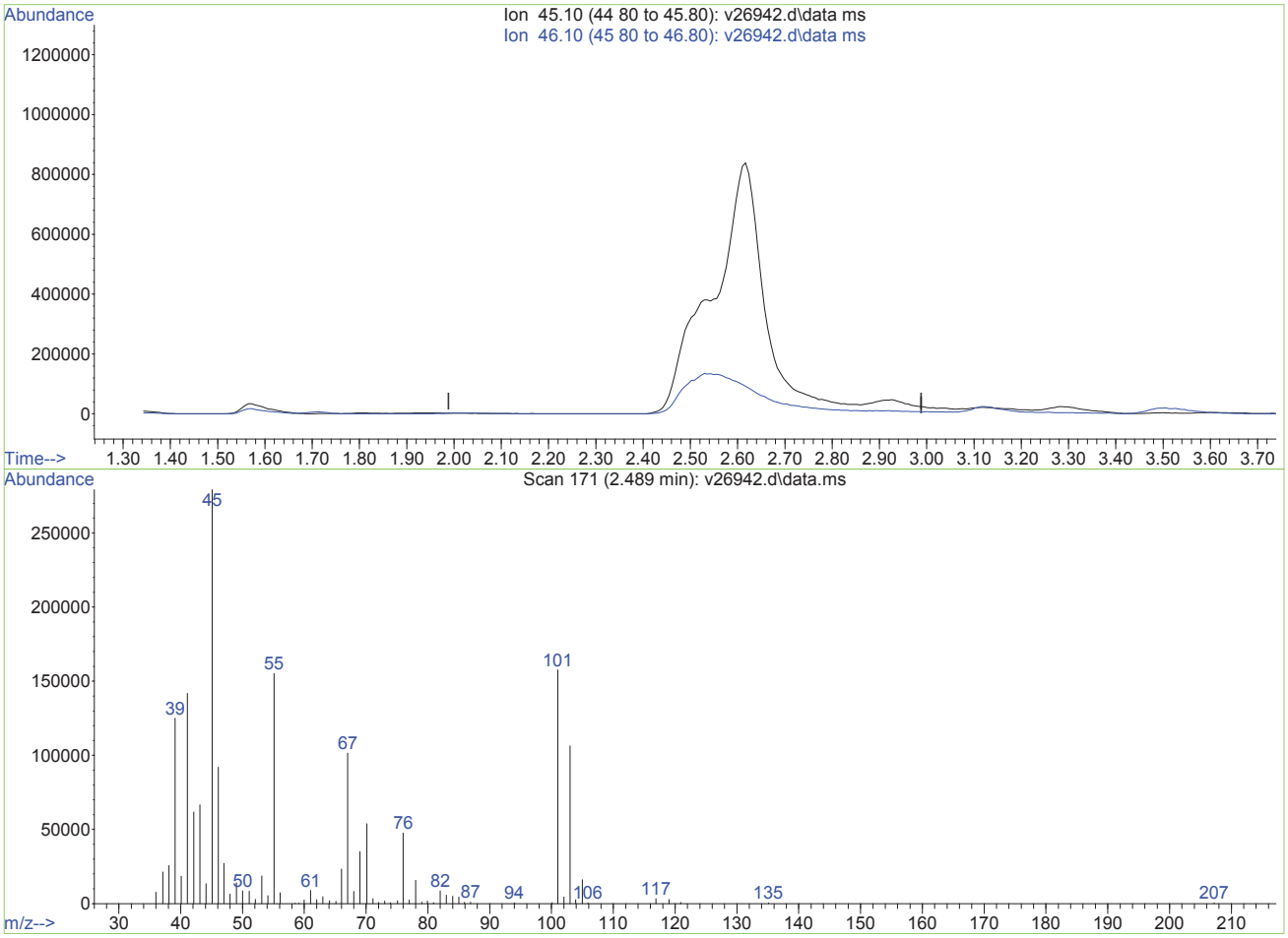
Data Path : O:\msv\1\databackup\v140107\
Data File : v26942.d
Acq On : 7 Jan 2014 5:47 pm
Operator : amym
Sample : ic1019-400
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 12 11:57:12 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Data Path : O:\msv\1\databackup\v140107\
Data File : v26942.d
Acq On : 7 Jan 2014 5:47 pm
Operator : amym
Sample : ic1019-400
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 12 11:50:07 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26942.d\data.ms

(2) Ethanol (p)

2.489min (-2.489) 0.00ug/L

response 0

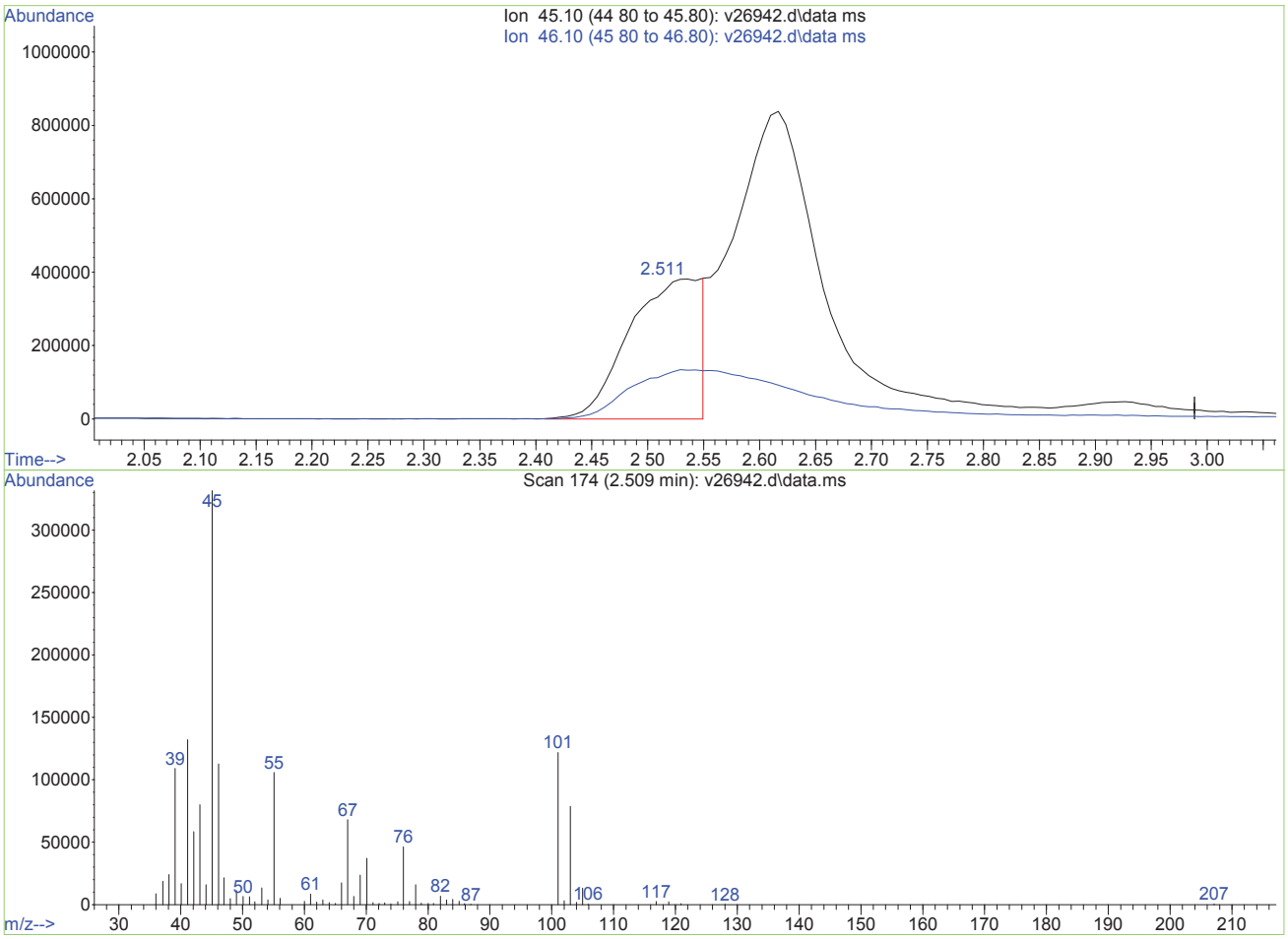
Ion	Exp%	Act%
45.10	100	0.00
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26942.D edits: Ethanol

SGS ACCUTEST MC27893

Data Path : O:\msv\1\databackup\v140107\
Data File : v26942.d
Acq On : 7 Jan 2014 5:47 pm
Operator : amym
Sample : ic1019-400
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 12 11:50:07 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26942.d\data.ms

(2) Ethanol (p)

2.509min (+0.020) 43966.69ug/L m

response 1732790

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26942.D edits: Ethanol

SGS ACCUTEST MC27893

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26944.d
Acq On : 7 Jan 2014 7:05 pm
Operator : amym
Sample : icv1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

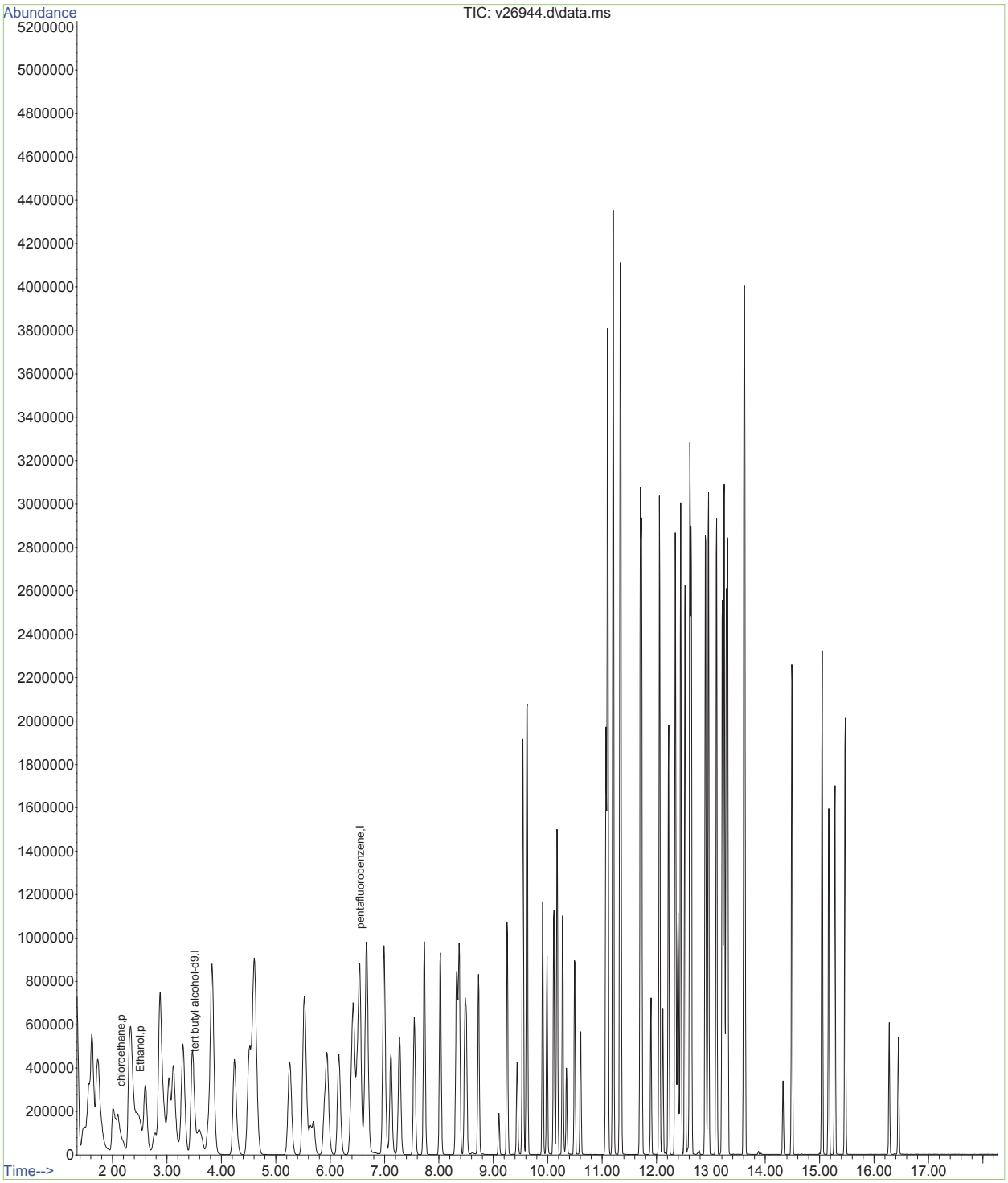
Quant Time: Oct 12 12:04:13 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.508	65	215524	500.00	ug/L	-0.01
3) pentafluorobenzene	6.550	168	735695	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.502	45	219095m	6281.66	ug/L	
4) chloroethane	2.149	64	314843	55.64	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msv\1\databackup\v140107\
Data File : v26944.d
Acq On : 7 Jan 2014 7:05 pm
Operator : amym
Sample : icv1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

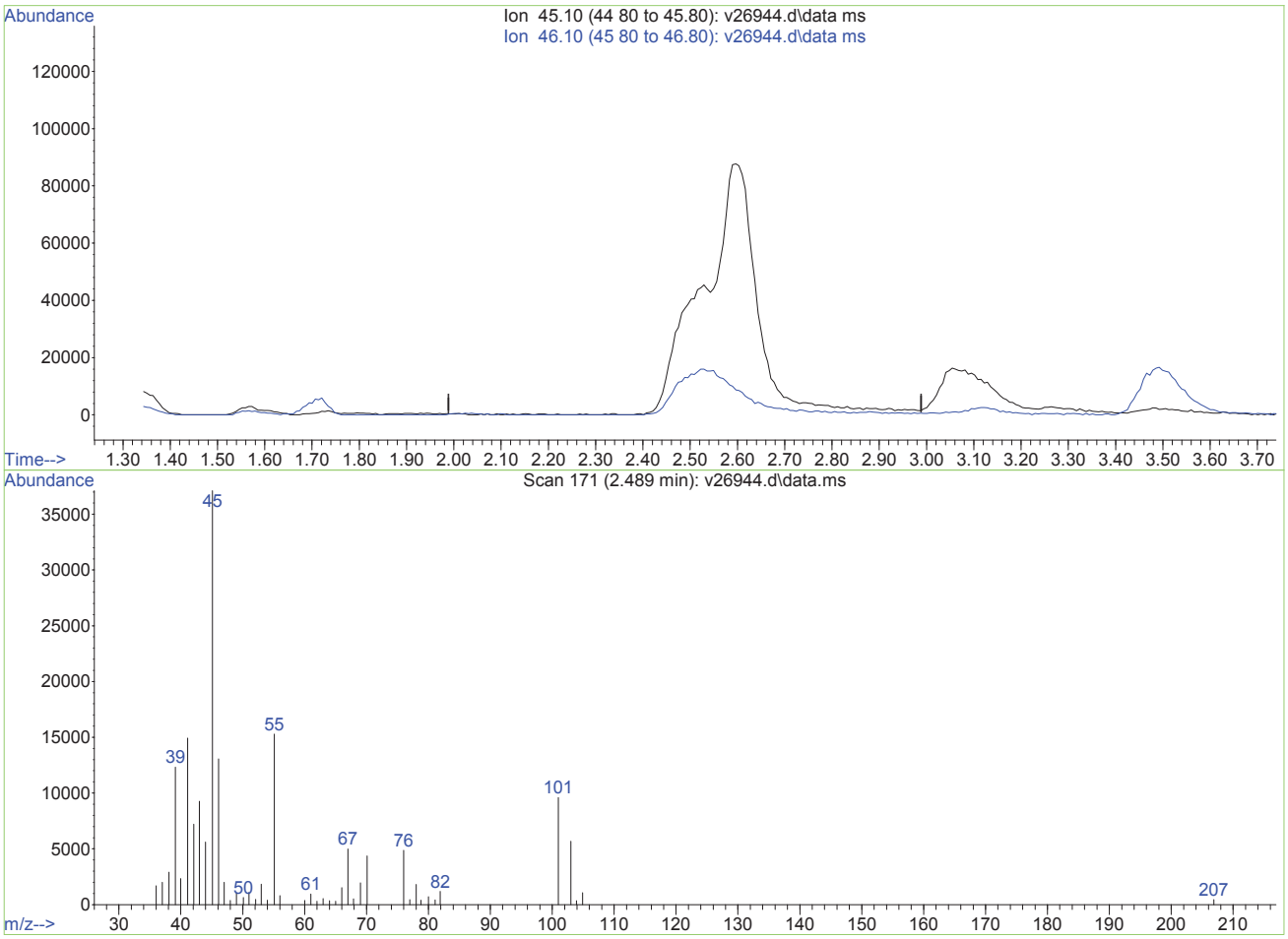
Quant Time: Oct 12 12:04:13 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26944.d
Acq On : 7 Jan 2014 7:05 pm
Operator : amym
Sample : icv1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 12 12:03:55 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



TIC: v26944.d\data.ms

(2) Ethanol (p)

2.489min (-2.489) 0.00ug/L

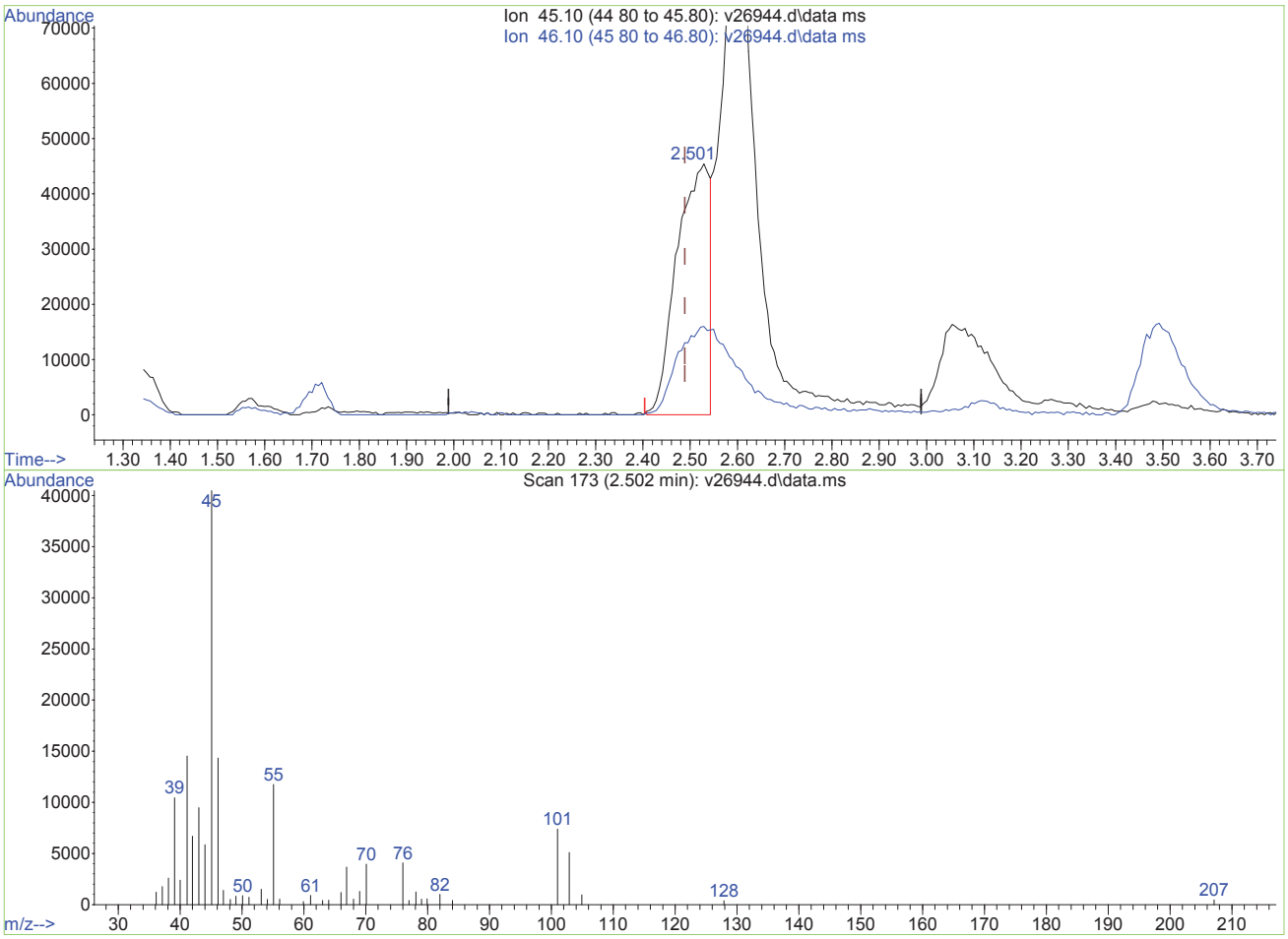
response 0

Ion	Exp%	Act%
45.10	100	0.00
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26944.D edits: Ethanol

Data Path : O:\msv\1\databackup\v140107\
Data File : v26944.d
Acq On : 7 Jan 2014 7:05 pm
Operator : amym
Sample : icv1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 12 12:03:55 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



TIC: v26944.d\data.ms

(2) Ethanol (p)

2.502min (+0.013) 6281.66ug/L m

response 219095

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26944.D edits: Ethanol

SGS ACCUTEST MC27893

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140128\
Data File : v27394.d
Acq On : 28 Jan 2014 11:42 am
Operator : amym
Sample : cc1019-50
Misc : MS31031,MSV1034,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 18 13:29:03 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

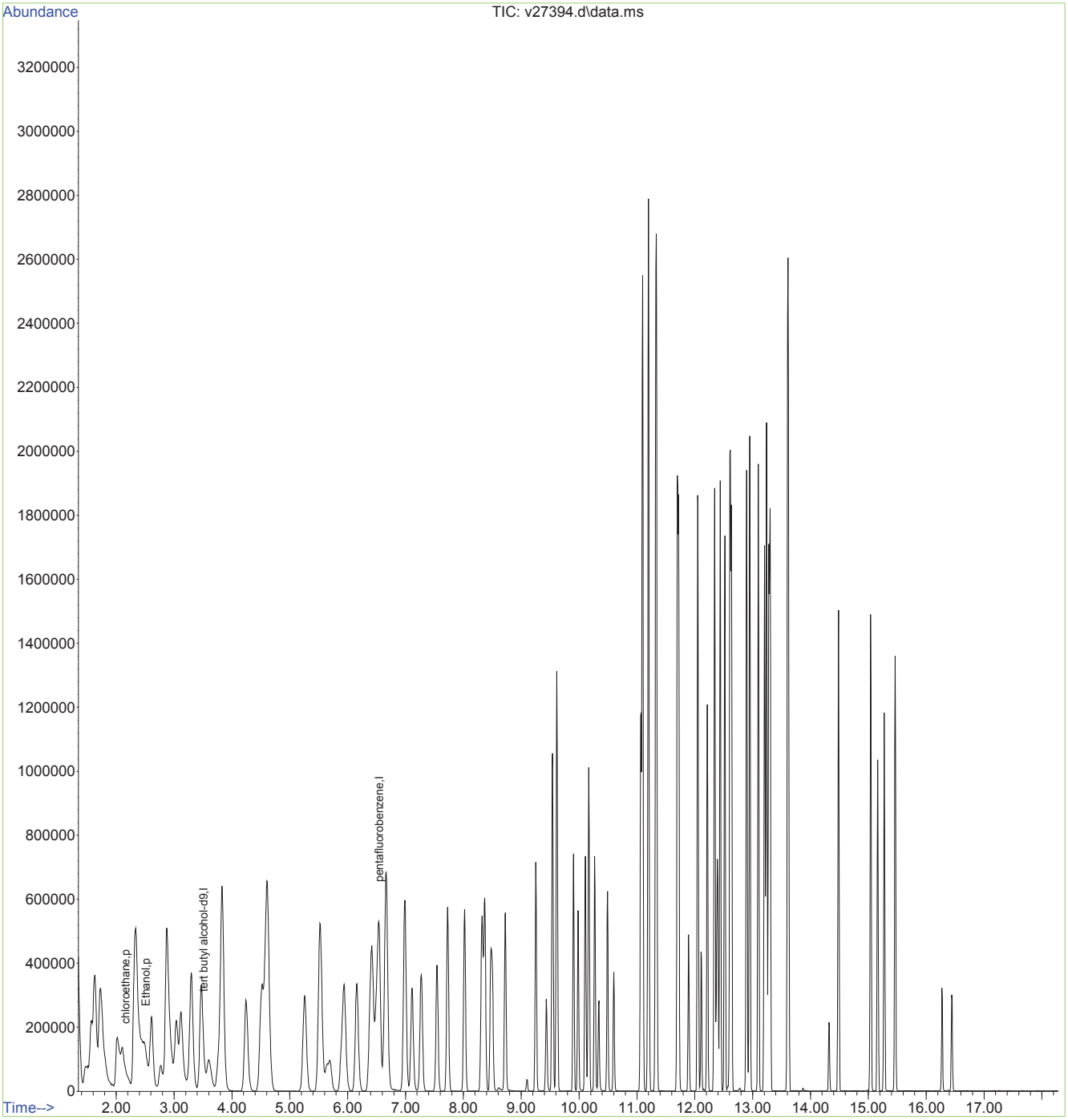
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.509	65	142241	500.00	ug/L	-0.01
3) pentafluorobenzene	6.546	168	428135	50.00	ug/L	-0.01
Target Compounds						Qvalue
2) Ethanol	2.508	45	193300	8558.80	ug/L	# 1
4) chloroethane	2.157	64	225215	68.59	ug/L	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140128\
Data File : v27394.d
Acq On : 28 Jan 2014 11:42 am
Operator : amym
Sample : cc1019-50
Misc : MS31031,MSV1034,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 18 13:29:03 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140129\
Data File : v27424.d
Acq On : 29 Jan 2014 11:03 am
Operator : amym
Sample : cc1019-50
Misc : MS31038,MSV1035,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 19 08:20:27 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

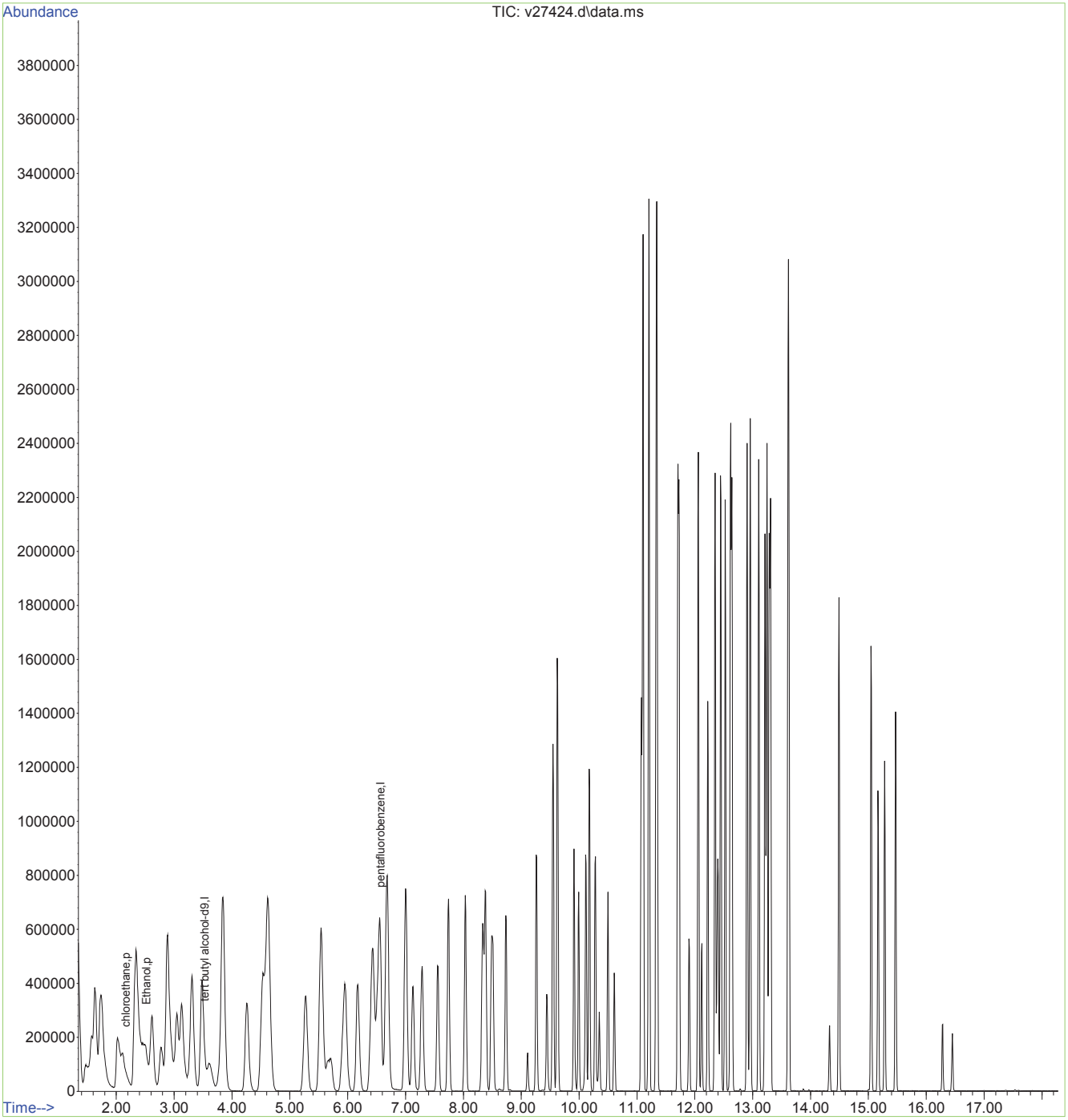
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.523	65	173284	500.00	ug/L	0.00
3) pentafluorobenzene	6.562	168	530361	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.513	45	201082	7238.36	ug/L	# 1
4) chloroethane	2.164	64	235242	57.70	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140129\
Data File : v27424.d
Acq On : 29 Jan 2014 11:03 am
Operator : amym
Sample : cc1019-50
Misc : MS31038,MSV1035,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 19 08:20:27 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140128\
Data File : v27399.d
Acq On : 28 Jan 2014 1:53 pm
Operator : amym
Sample : mc27893-4
Misc : MS31038,MSV1034,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 18 13:34:16 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.502	65	129567	500.00	ug/L	-0.02
3) pentafluorobenzene	6.545	168	329804	50.00	ug/L	-0.01

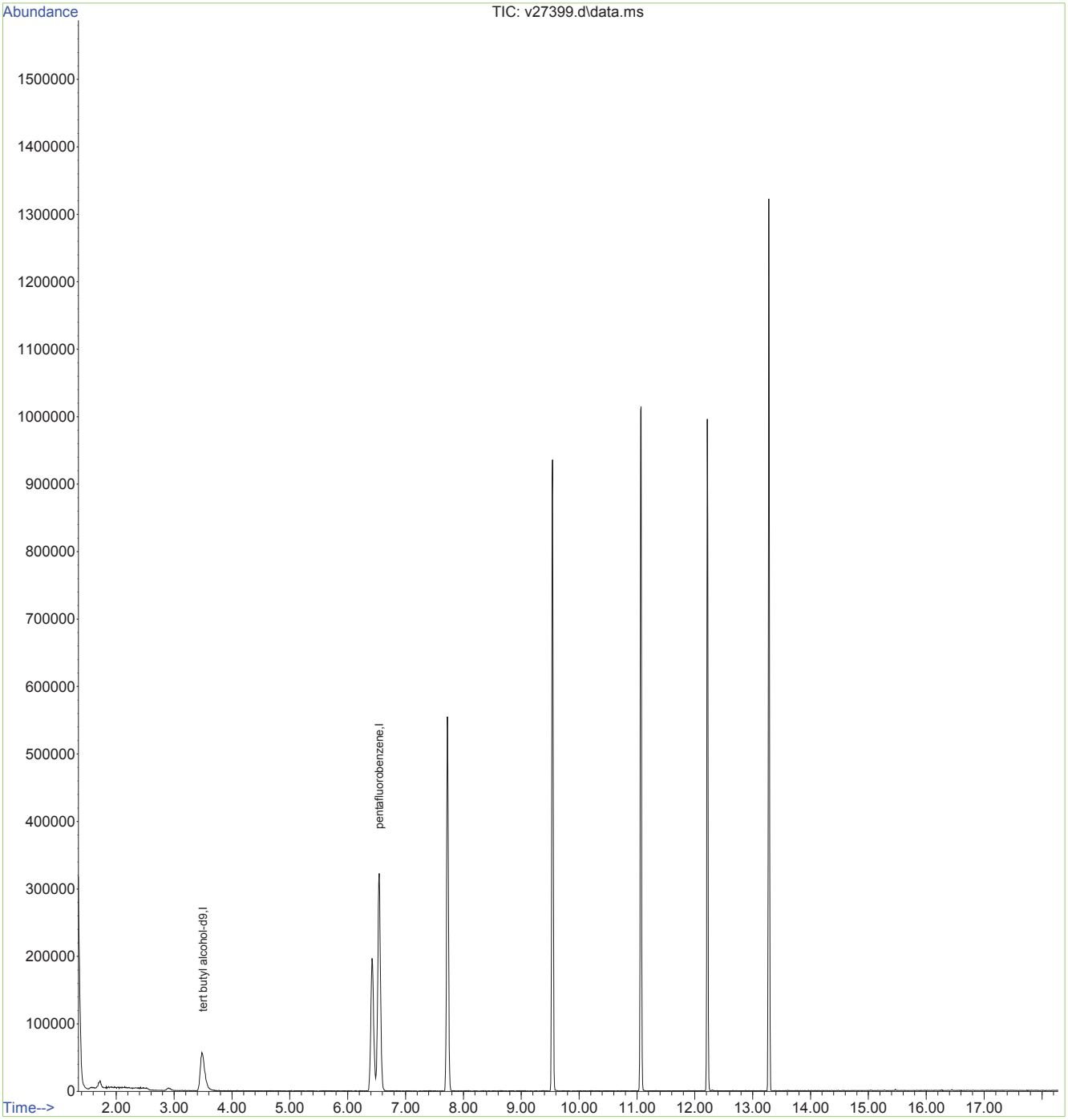
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140128\
Data File : v27399.d
Acq On : 28 Jan 2014 1:53 pm
Operator : amym
Sample : mc27893-4
Misc : MS31038,MSV1034,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 18 13:34:16 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140128\
Data File : v27401.d
Acq On : 28 Jan 2014 2:46 pm
Operator : amym
Sample : mc27893-1
Misc : MS31038,MSV1034,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 18 13:34:51 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.508	65	184052	500.00	ug/L	-0.01
3) pentafluorobenzene	6.553	168	420000	50.00	ug/L	0.00

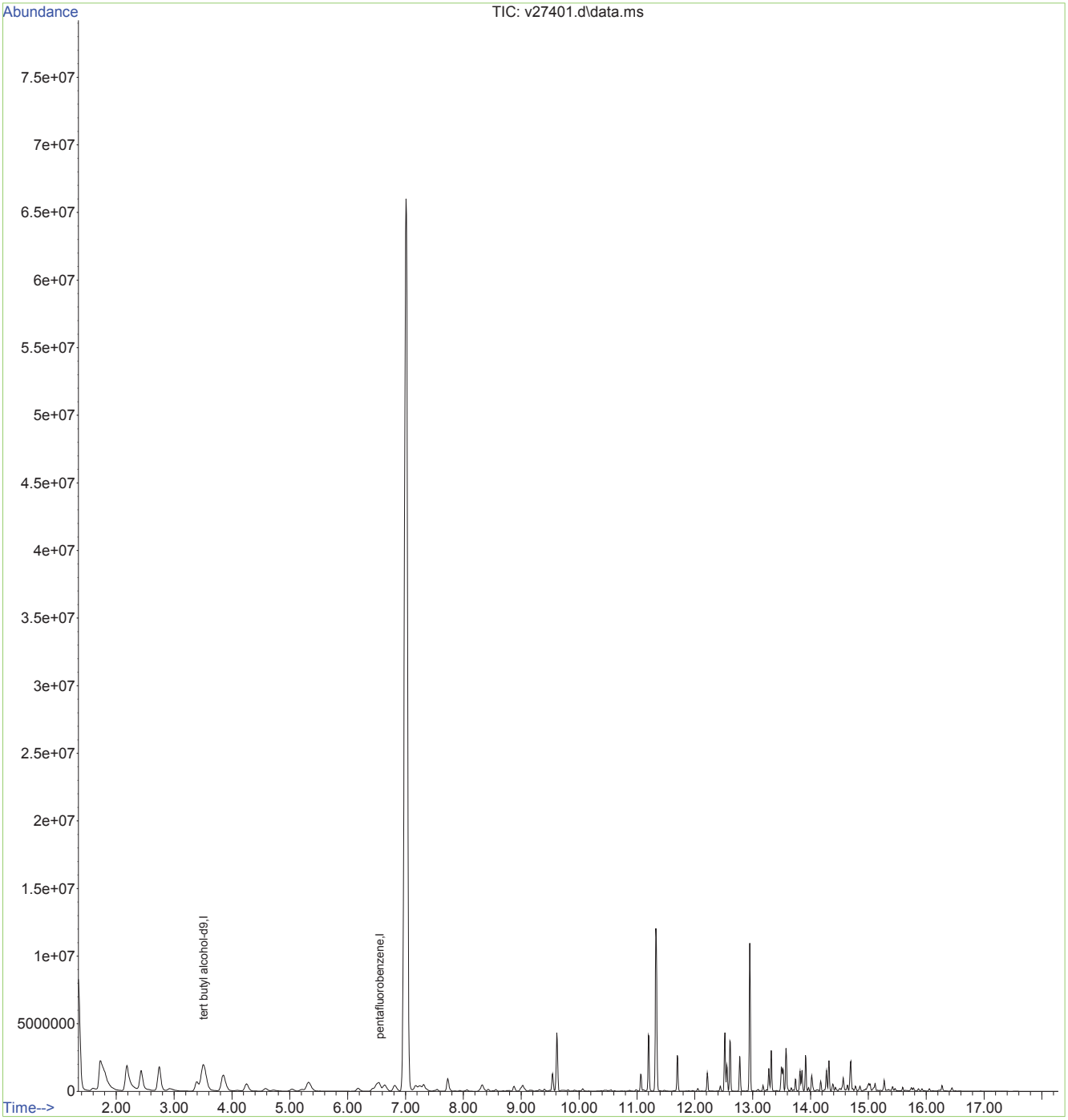
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140128\
Data File : v27401.d
Acq On : 28 Jan 2014 2:46 pm
Operator : amym
Sample : mc27893-1
Misc : MS31038,MSV1034,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 18 13:34:51 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140128\
Data File : v27403.d
Acq On : 28 Jan 2014 3:39 pm
Operator : amym
Sample : mc27893-3
Misc : MS31038,MSV1034,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 18 13:37:23 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	0.000	65	0	0.00	ug/L	-3.52
3) pentafluorobenzene	6.552	168	583929	50.00	ug/L	0.00

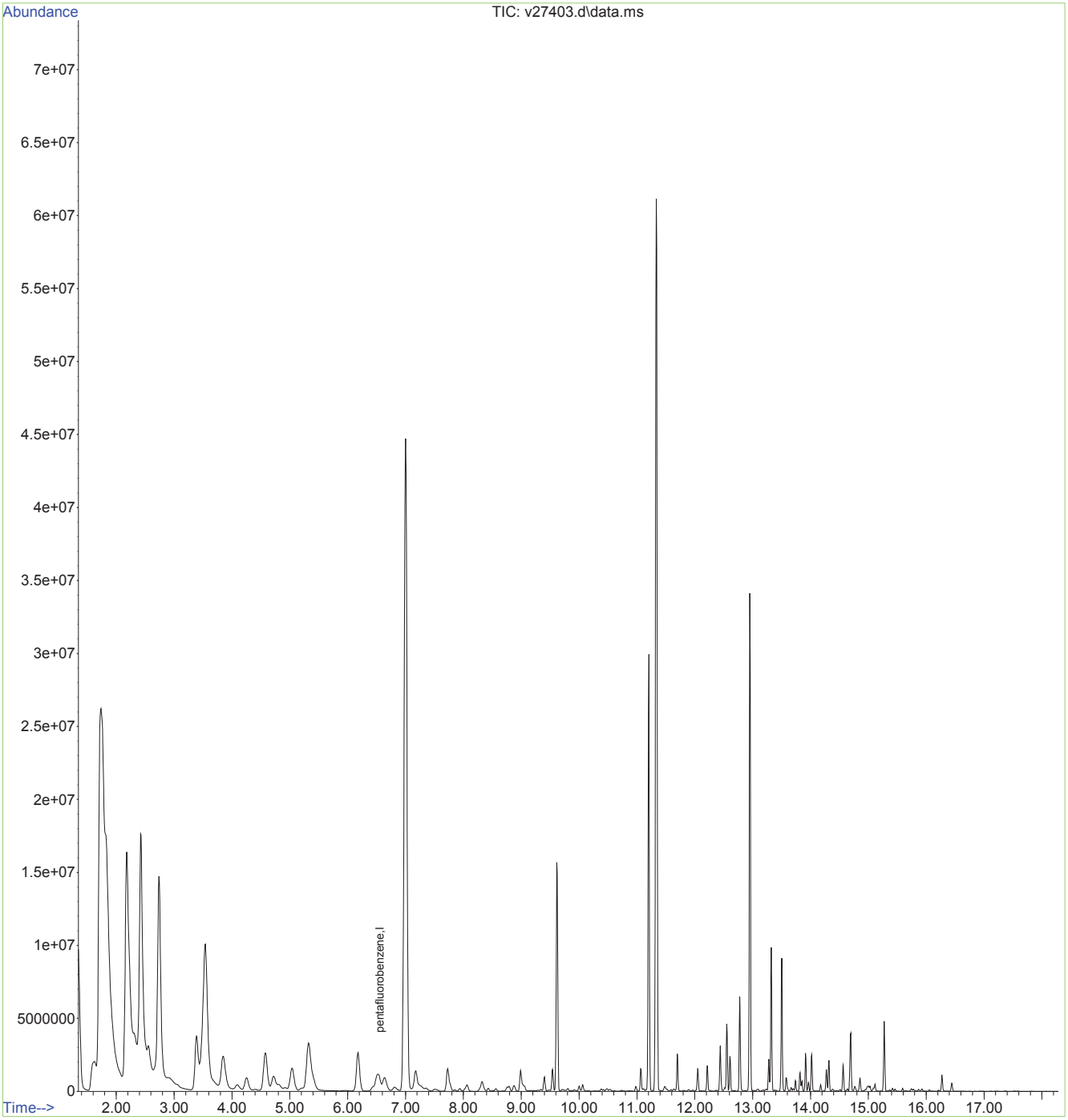
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140128\
Data File : v27403.d
Acq On : 28 Jan 2014 3:39 pm
Operator : amym
Sample : mc27893-3
Misc : MS31038,MSV1034,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 18 13:37:23 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140129\
Data File : v27432.d
Acq On : 29 Jan 2014 2:34 pm
Operator : amym
Sample : mc27893-2
Misc : MS31038,MSV1035,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 19 08:26:17 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.516	65	143137	500.00	ug/L	0.00
3) pentafluorobenzene	6.560	168	416411	50.00	ug/L	0.00

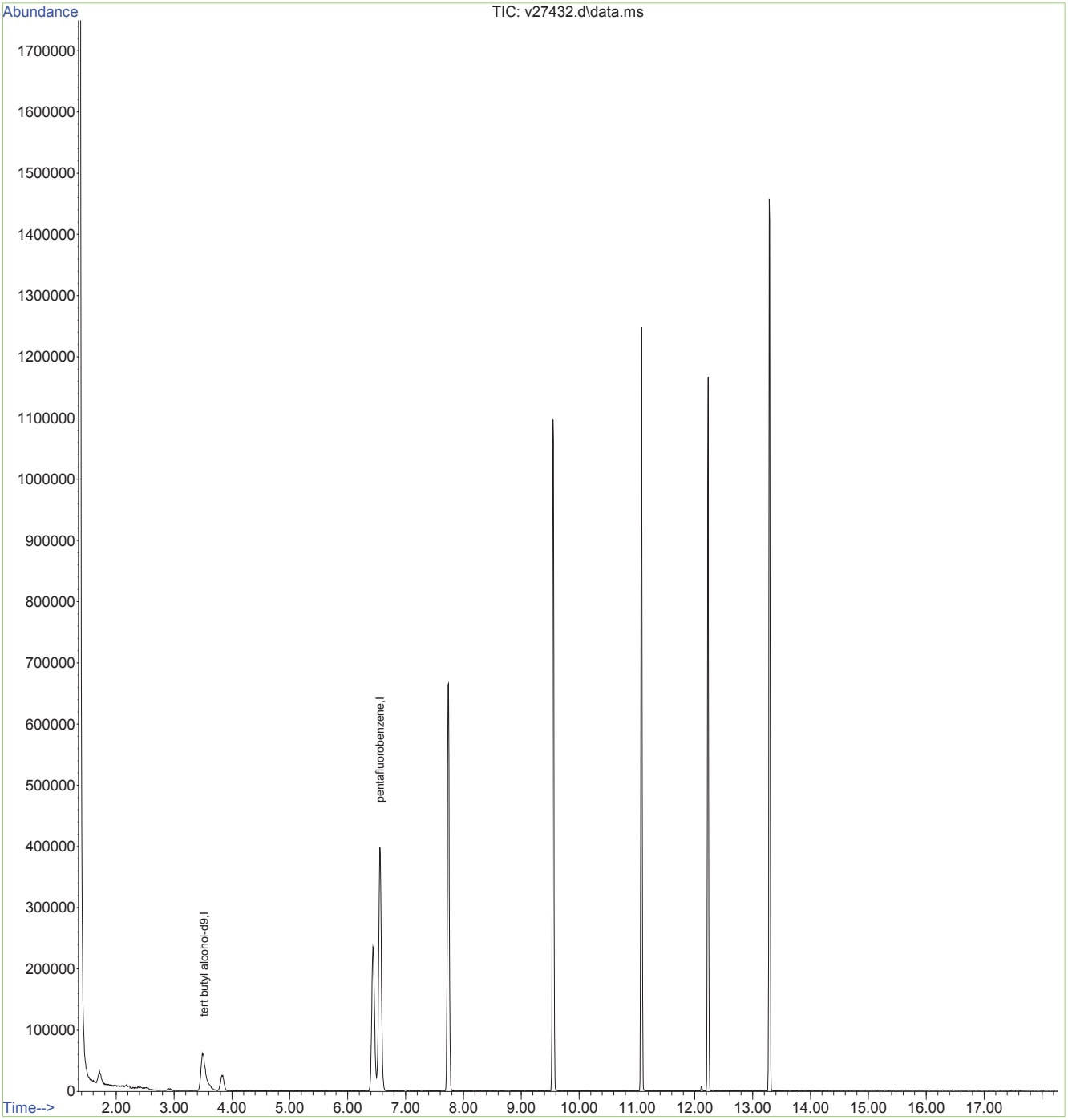
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140129\
Data File : v27432.d
Acq On : 29 Jan 2014 2:34 pm
Operator : amym
Sample : mc27893-2
Misc : MS31038,MSV1035,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 19 08:26:17 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140128\
Data File : v27394.d
Acq On : 28 Jan 2014 11:42 am
Operator : amym
Sample : cc1019-50
Misc : MS31031,MSV1034,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 18 13:29:03 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

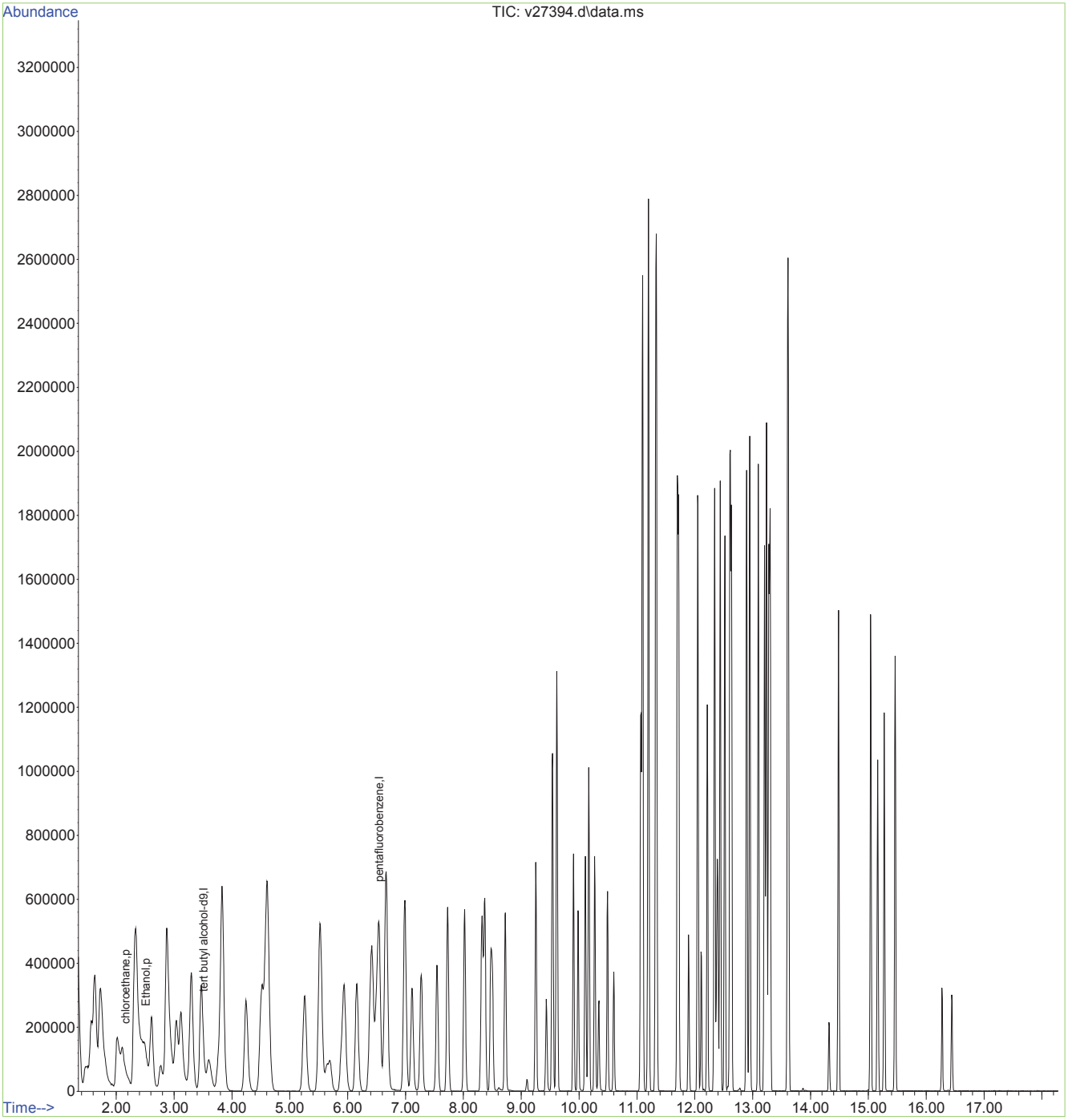
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.509	65	142241	500.00	ug/L	-0.01
3) pentafluorobenzene	6.546	168	428135	50.00	ug/L	-0.01
Target Compounds						Qvalue
2) Ethanol	2.508	45	193300	8558.80	ug/L	# 1
4) chloroethane	2.157	64	225215	68.59	ug/L	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140128\
Data File : v27394.d
Acq On : 28 Jan 2014 11:42 am
Operator : amym
Sample : cc1019-50
Misc : MS31031,MSV1034,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 18 13:29:03 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140128\
Data File : v27395.d
Acq On : 28 Jan 2014 12:08 pm
Operator : amym
Sample : bsd
Misc : MS31031,MSV1034,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 18 13:31:23 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

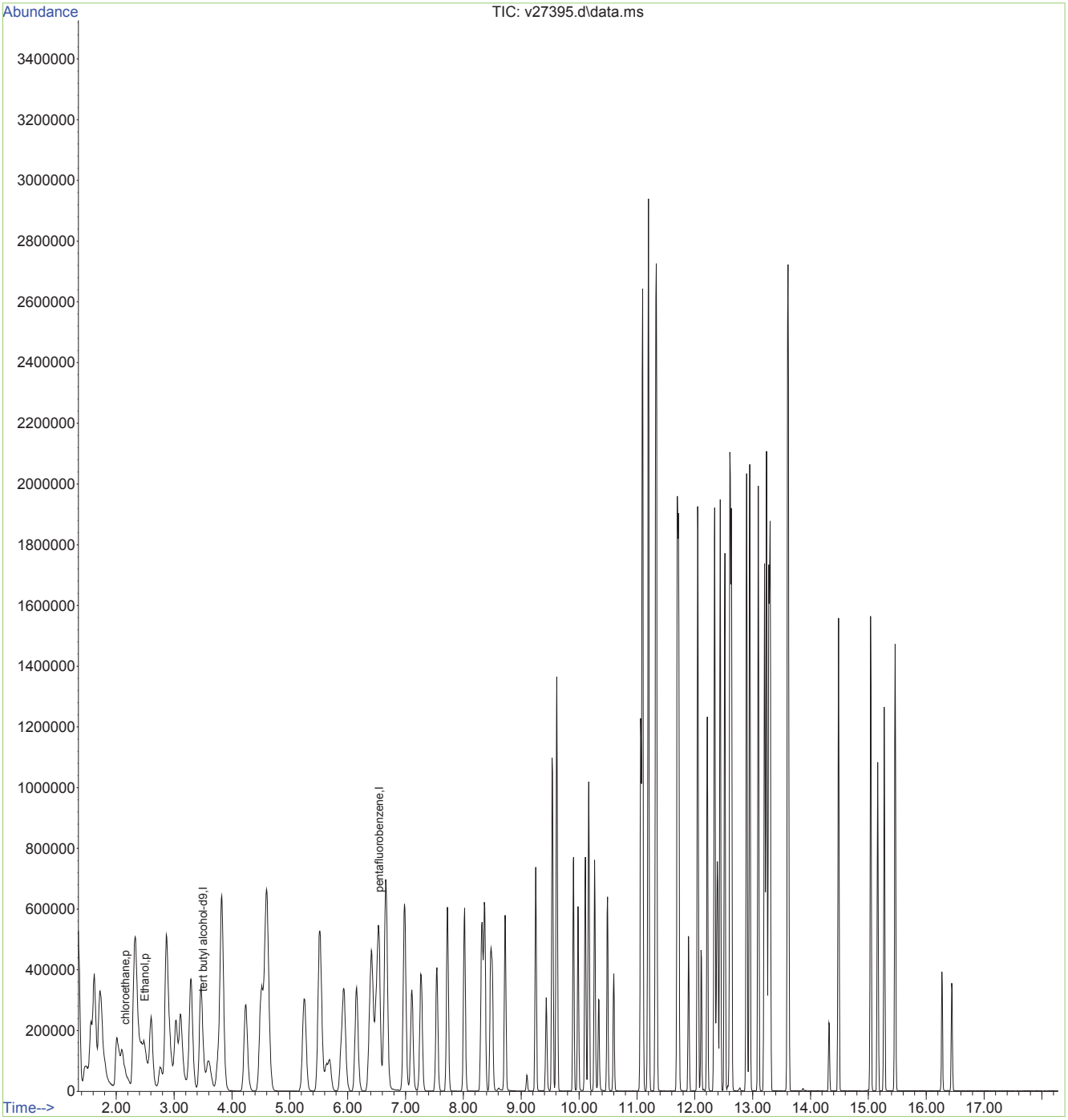
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.501	65	157721	500.00	ug/L	-0.02
3) pentafluorobenzene	6.542	168	447841	50.00	ug/L	-0.02
Target Compounds						Qvalue
2) Ethanol	2.498	45	189455	7509.60	ug/L	# 1
4) chloroethane	2.149	64	228993	66.65	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140128\
Data File : v27395.d
Acq On : 28 Jan 2014 12:08 pm
Operator : amym
Sample : bsd
Misc : MS31031,MSV1034,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 18 13:31:23 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



SGS ACCUTEST MC27893

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140128\
Data File : v27398.d
Acq On : 28 Jan 2014 1:27 pm
Operator : amym
Sample : mb
Misc : MS31038,MSV1034,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 18 13:31:46 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.511	65	139377	500.00	ug/L	-0.01
3) pentafluorobenzene	6.551	168	339139	50.00	ug/L	0.00

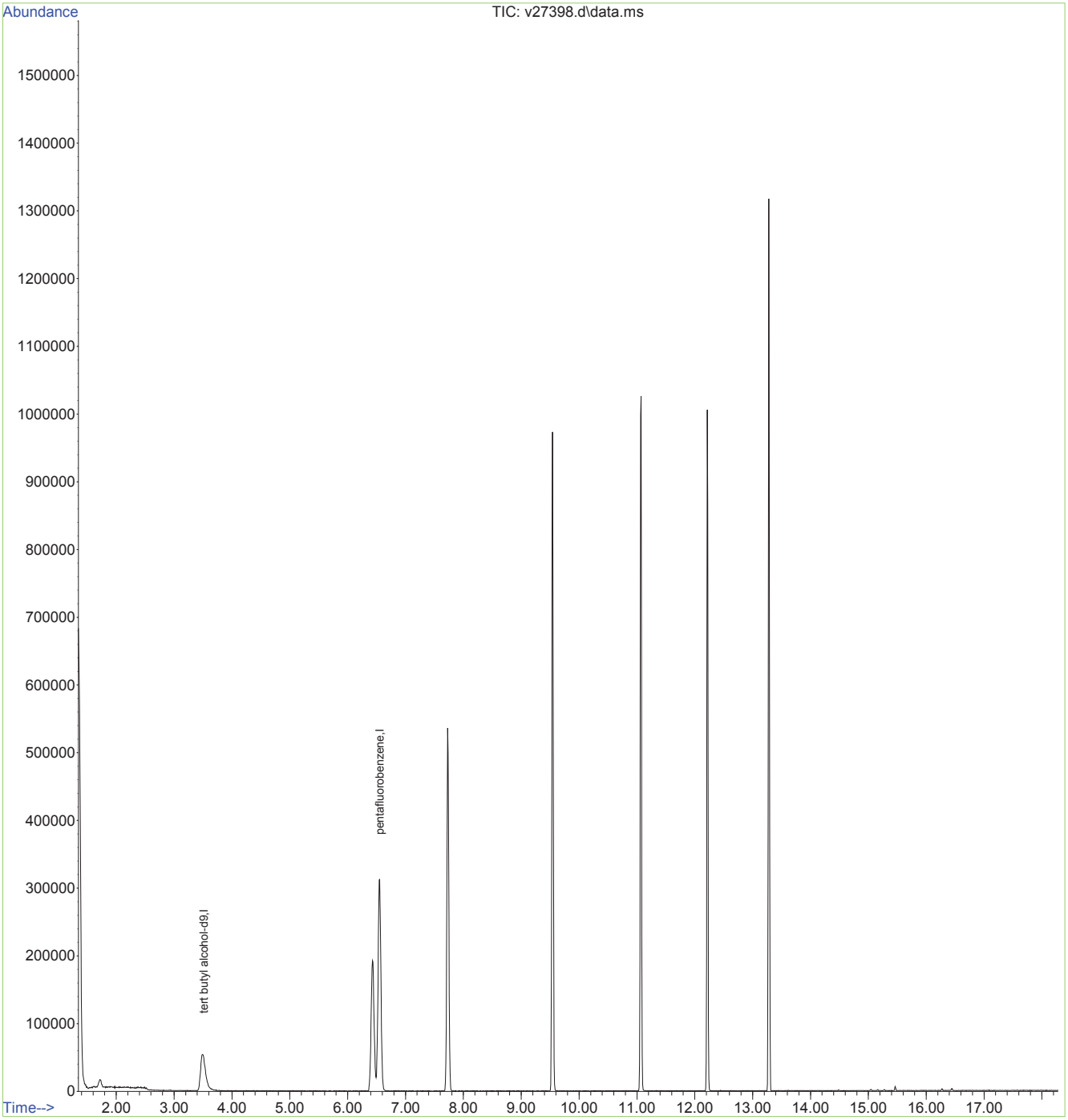
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140128\
Data File : v27398.d
Acq On : 28 Jan 2014 1:27 pm
Operator : amym
Sample : mb
Misc : MS31038,MSV1034,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 18 13:31:46 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



SGS ACCUTEST MC27893

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140128\
Data File : v27407.d
Acq On : 28 Jan 2014 5:24 pm
Operator : amym
Sample : mc27897-1ms
Misc : MS31038,MSV1034,,,,5,5
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 18 13:38:03 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

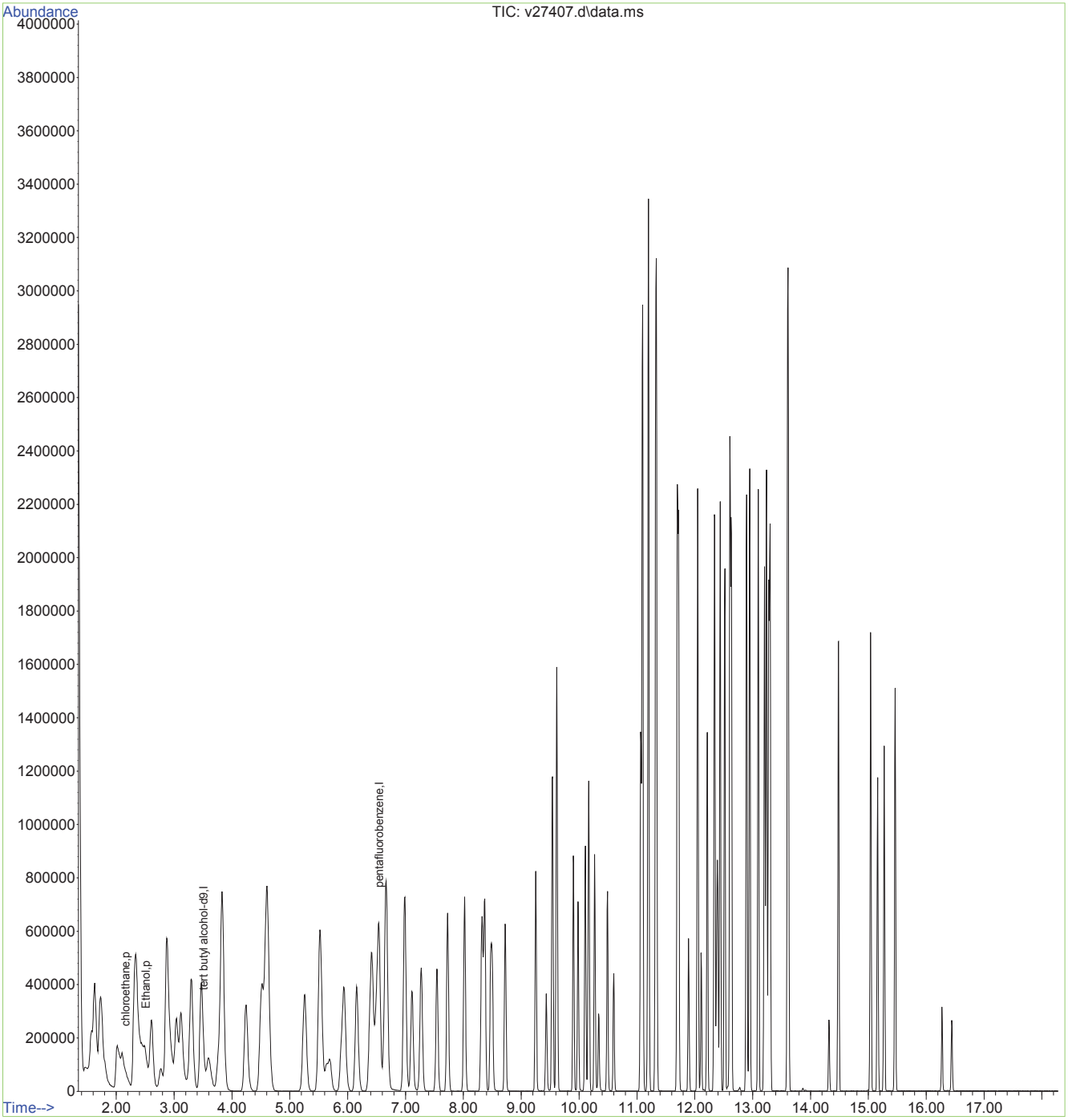
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.505	65	190478	500.00	ug/L	-0.02
3) pentafluorobenzene	6.545	168	504413	50.00	ug/L	-0.01
Target Compounds						Qvalue
2) Ethanol	2.507	45	243268	8014.66	ug/L	# 1
4) chloroethane	2.157	64	240953	62.21	ug/L	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140128\
Data File : v27407.d
Acq On : 28 Jan 2014 5:24 pm
Operator : amym
Sample : mc27897-1ms
Misc : MS31038,MSV1034,,,,5,5
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 18 13:38:03 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140128\
Data File : v27408.d
Acq On : 28 Jan 2014 5:50 pm
Operator : amym
Sample : mc27897-1msd
Misc : MS31038,MSV1034,,,,5,5
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 18 13:38:27 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

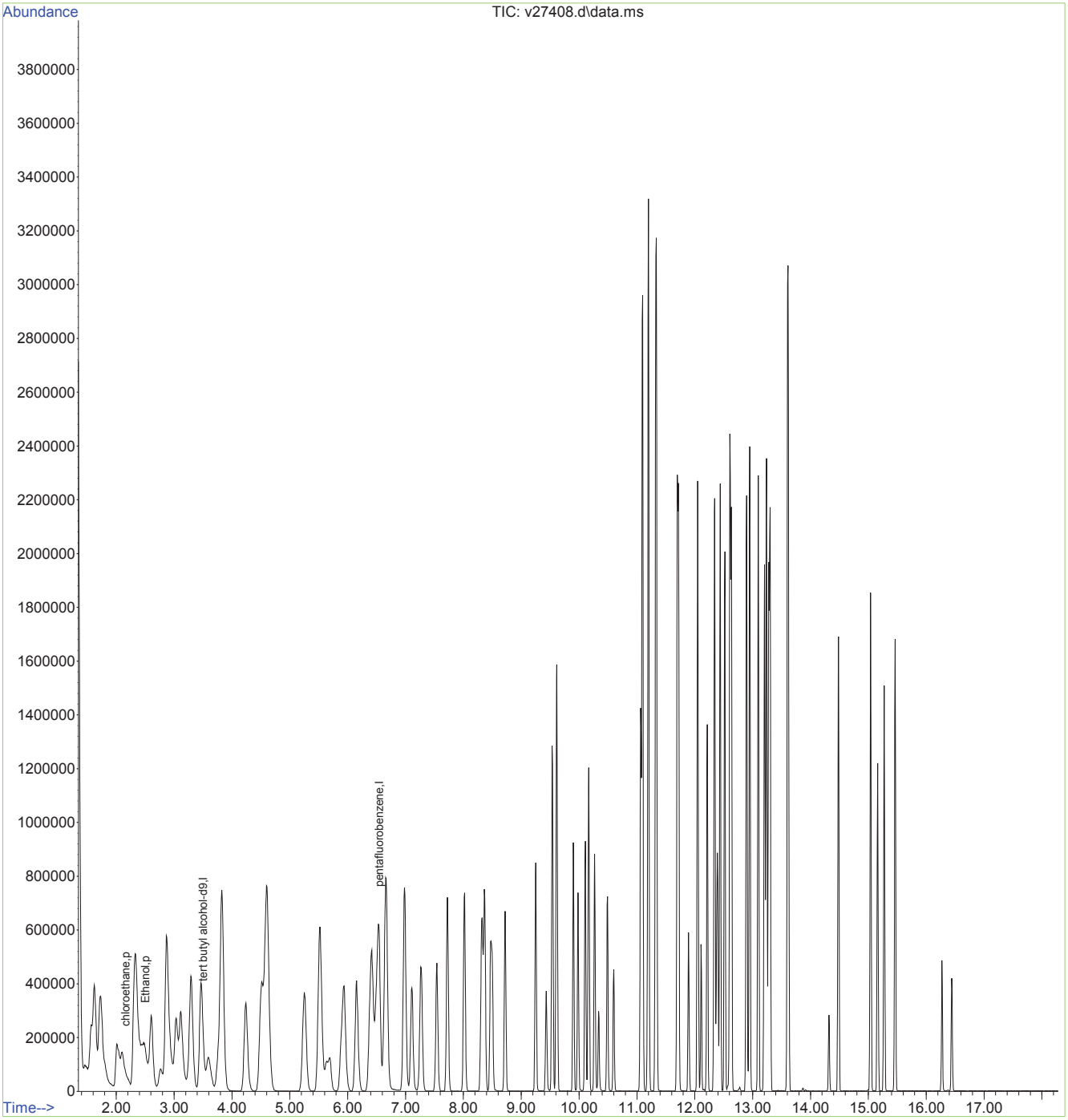
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.499	65	196183	500.00	ug/L	-0.02
3) pentafluorobenzene	6.543	168	521883	50.00	ug/L	-0.02
Target Compounds						Qvalue
2) Ethanol	2.505	45	252340	8075.21	ug/L	# 1
4) chloroethane	2.155	64	241495	60.23	ug/L	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140128\
Data File : v27408.d
Acq On : 28 Jan 2014 5:50 pm
Operator : amym
Sample : mc27897-1msd
Misc : MS31038,MSV1034,,,,5,5
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 18 13:38:27 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140129\
Data File : v27425.d
Acq On : 29 Jan 2014 11:29 am
Operator : amym
Sample : bs
Misc : MS31038,MSV1035,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 19 08:22:55 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

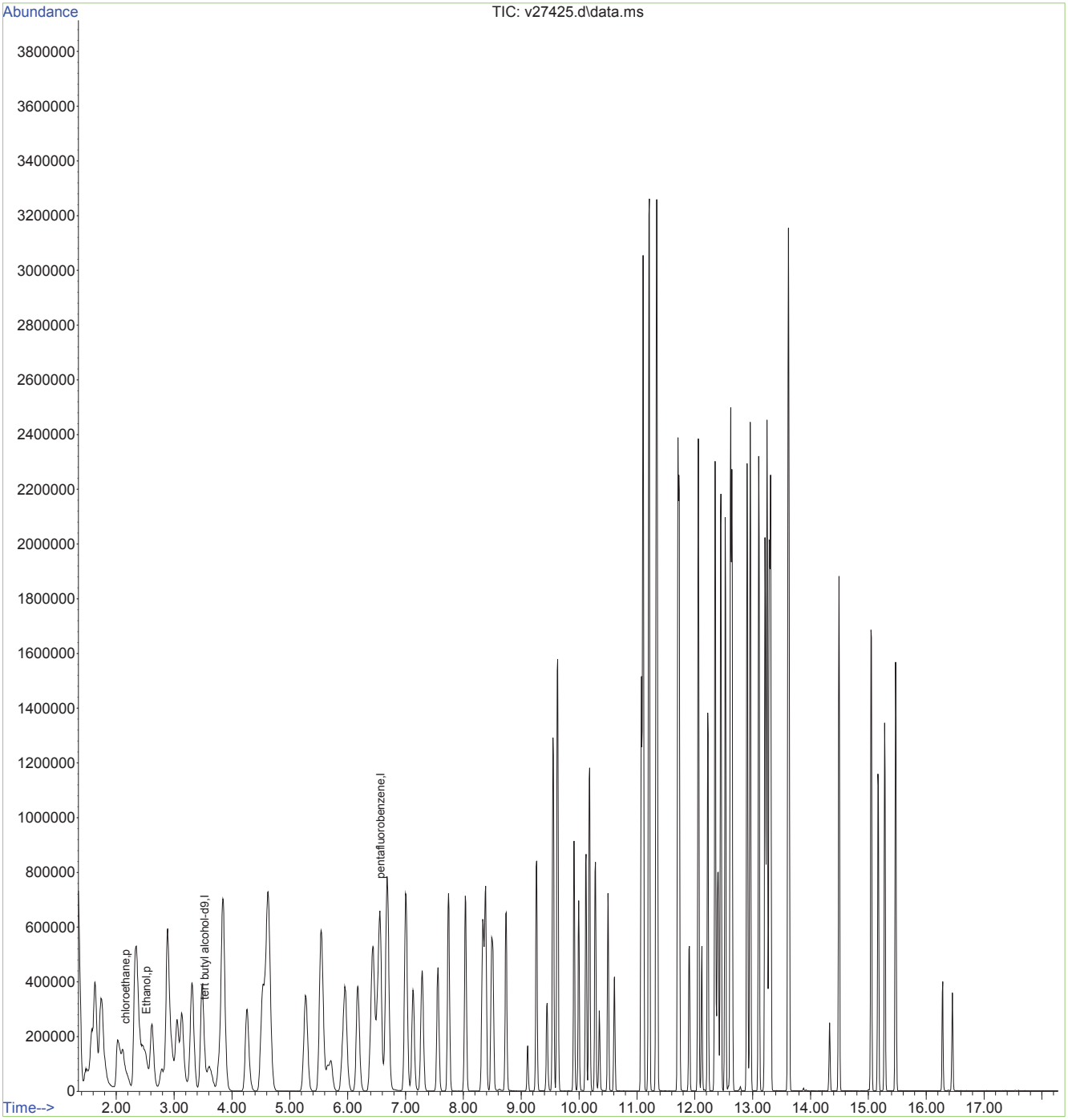
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.523	65	165753	500.00	ug/L	0.00
3) pentafluorobenzene	6.564	168	543620	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.520	45	203336	7679.44	ug/L	# 1
4) chloroethane	2.158	64	257570	61.69	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140129\
Data File : v27425.d
Acq On : 29 Jan 2014 11:29 am
Operator : amym
Sample : bs
Misc : MS31038,MSV1035,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 19 08:22:55 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140129\
Data File : v27426.d
Acq On : 29 Jan 2014 11:55 am
Operator : amym
Sample : bsd
Misc : MS31038,MSV1035,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 19 08:24:33 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

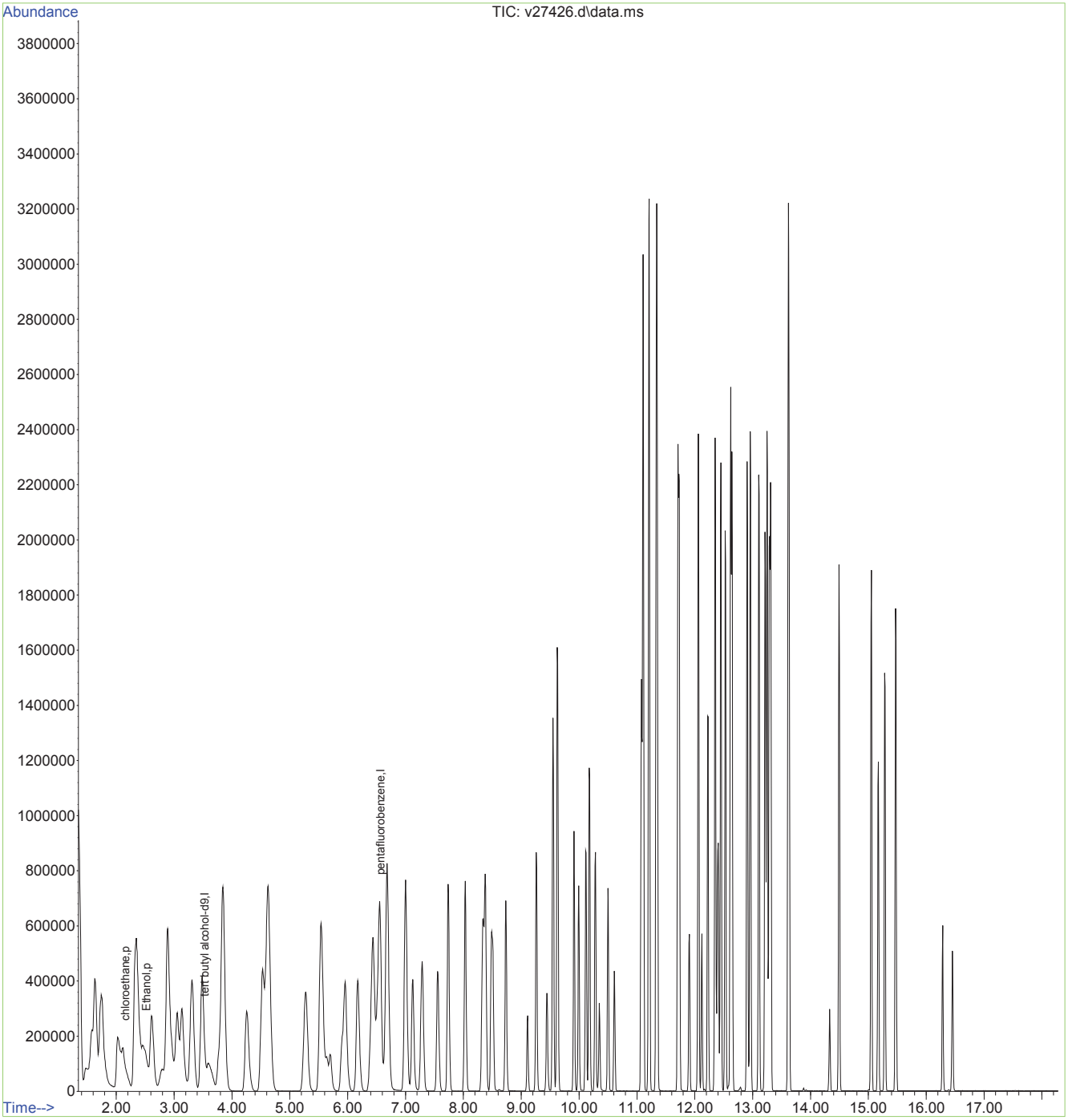
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.527	65	199457	500.00	ug/L	0.00
3) pentafluorobenzene	6.562	168	544877	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.516	45	194215m	5996.67	ug/L	
4) chloroethane	2.155	64	260487	62.25	ug/L	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140129\
Data File : v27426.d
Acq On : 29 Jan 2014 11:55 am
Operator : amym
Sample : bsd
Misc : MS31038,MSV1035,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

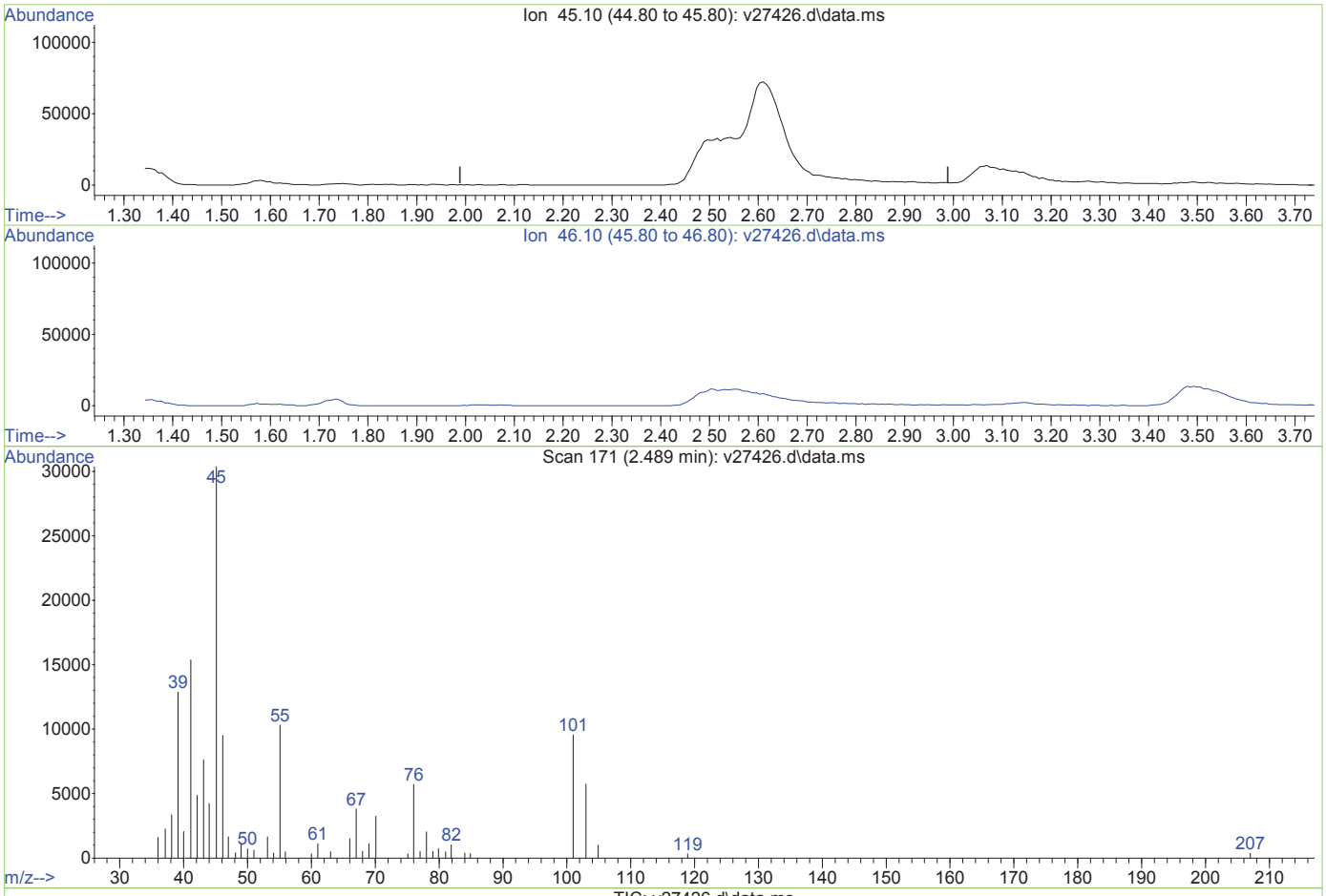
Quant Time: Nov 19 08:24:33 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140129\
Data File : v27426.d
Acq On : 29 Jan 2014 11:55 am
Operator : amym
Sample : bsd
Misc : MS31038,MSV1035,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 19 08:23:11 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



TIC: v27426.d\data.ms

(2) Ethanol (p)

2.489min (-2.489) 0.00ug/L

response 0

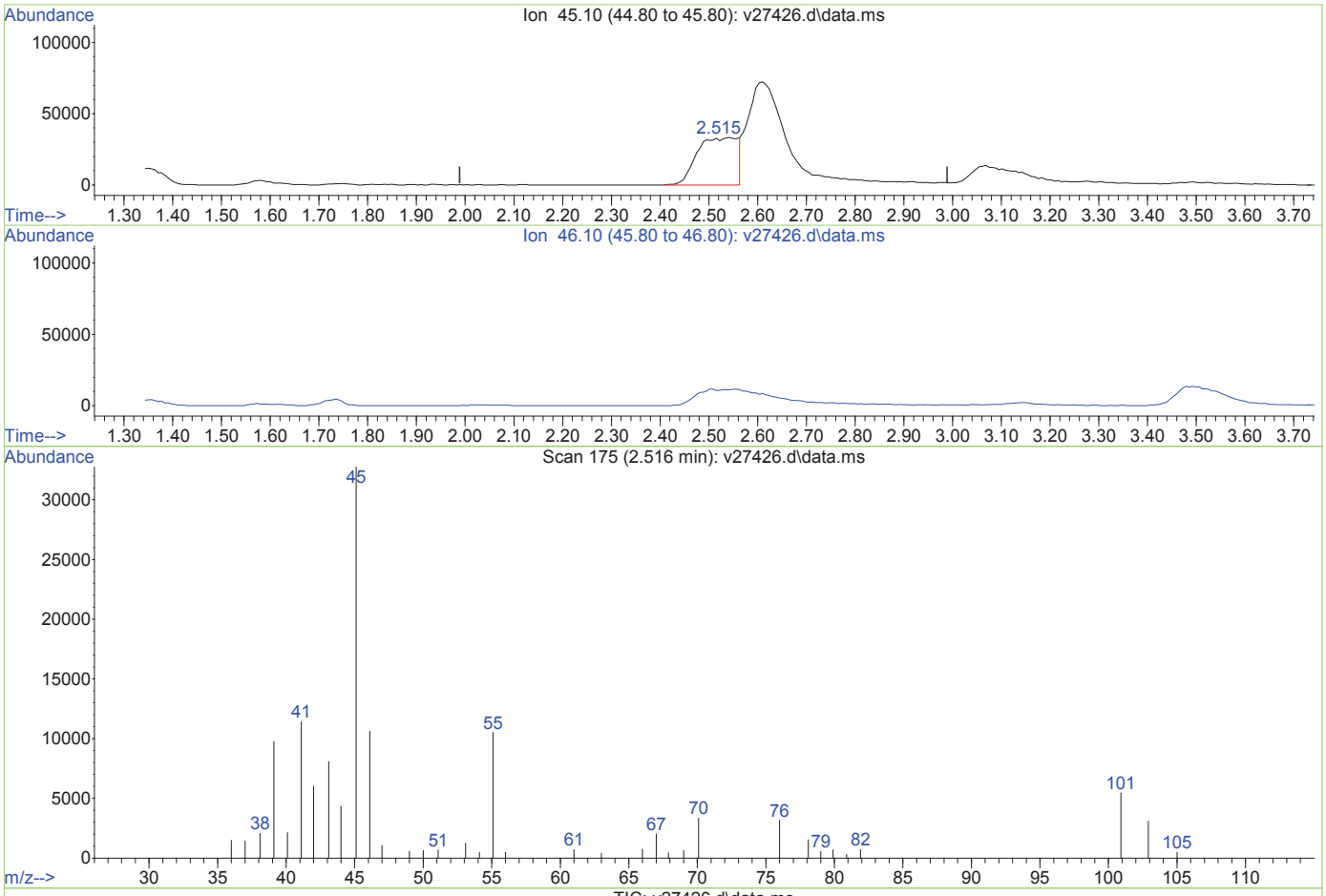
Ion	Exp%	Act%
45.10	100	0.00
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V27426.D edits: Ethanol

Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140129\
Data File : v27426.d
Acq On : 29 Jan 2014 11:55 am
Operator : amym
Sample : bsd
Misc : MS31038,MSV1035,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 19 08:23:11 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



TIC: v27426.d\data.ms

(2) Ethanol (p)

2.516min (+0.027) 5996.67ug/L m

response 194215

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V27426.D edits: Ethanol

SGS ACCUTEST MC27893

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140129\
Data File : v27429.d
Acq On : 29 Jan 2014 1:15 pm
Operator : amym
Sample : mb
Misc : MS31038,MSV1035,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 19 08:25:11 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.517	65	137712	500.00	ug/L	0.00
3) pentafluorobenzene	6.564	168	439388	50.00	ug/L	0.00

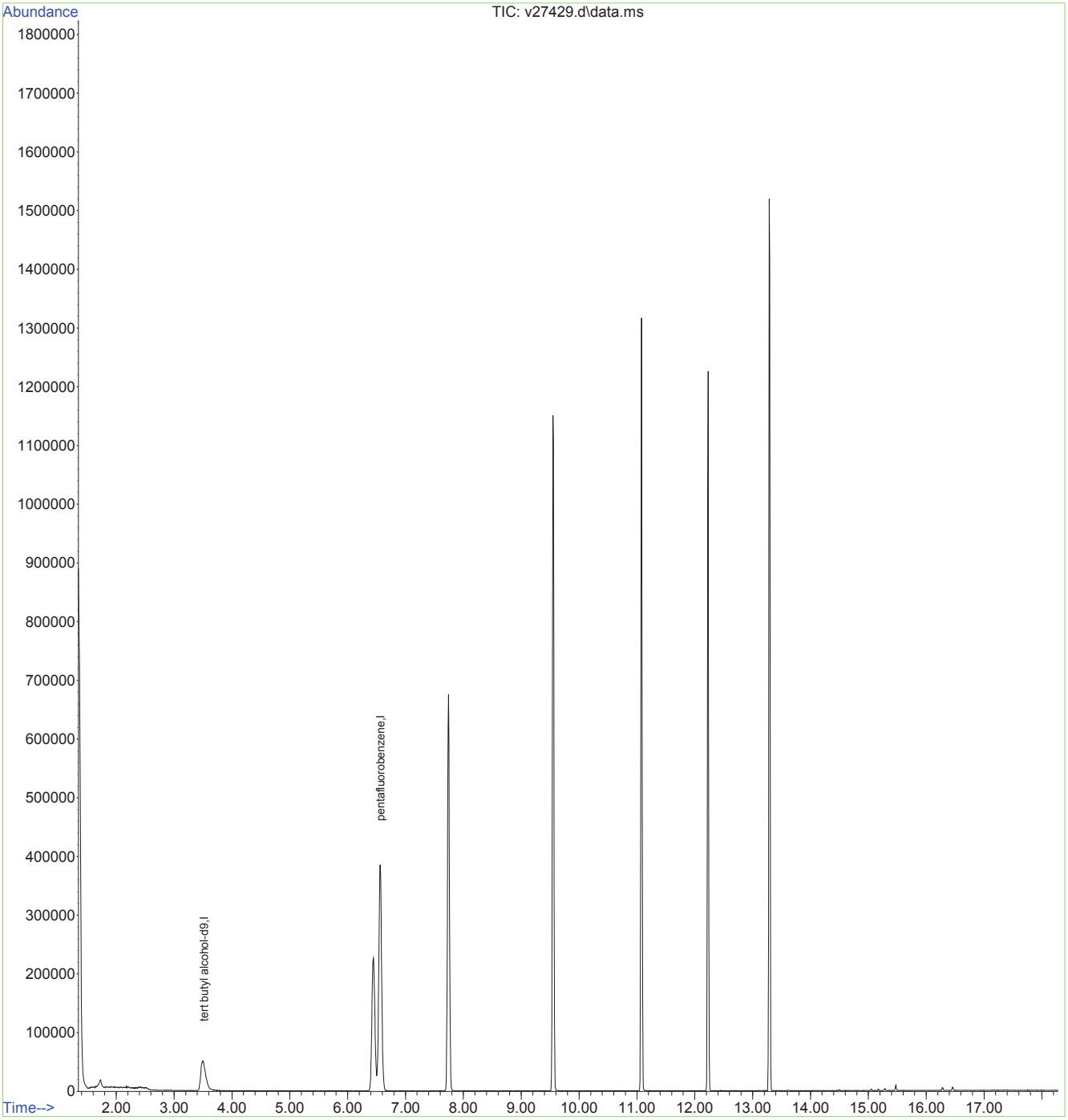
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140129\
Data File : v27429.d
Acq On : 29 Jan 2014 1:15 pm
Operator : amym
Sample : mb
Misc : MS31038,MSV1035,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 19 08:25:11 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140129\
Data File : v27436.d
Acq On : 29 Jan 2014 4:20 pm
Operator : amym
Sample : mc27893-2ms
Misc : MS31038,MSV1035,,,,5,5
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 19 08:30:23 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

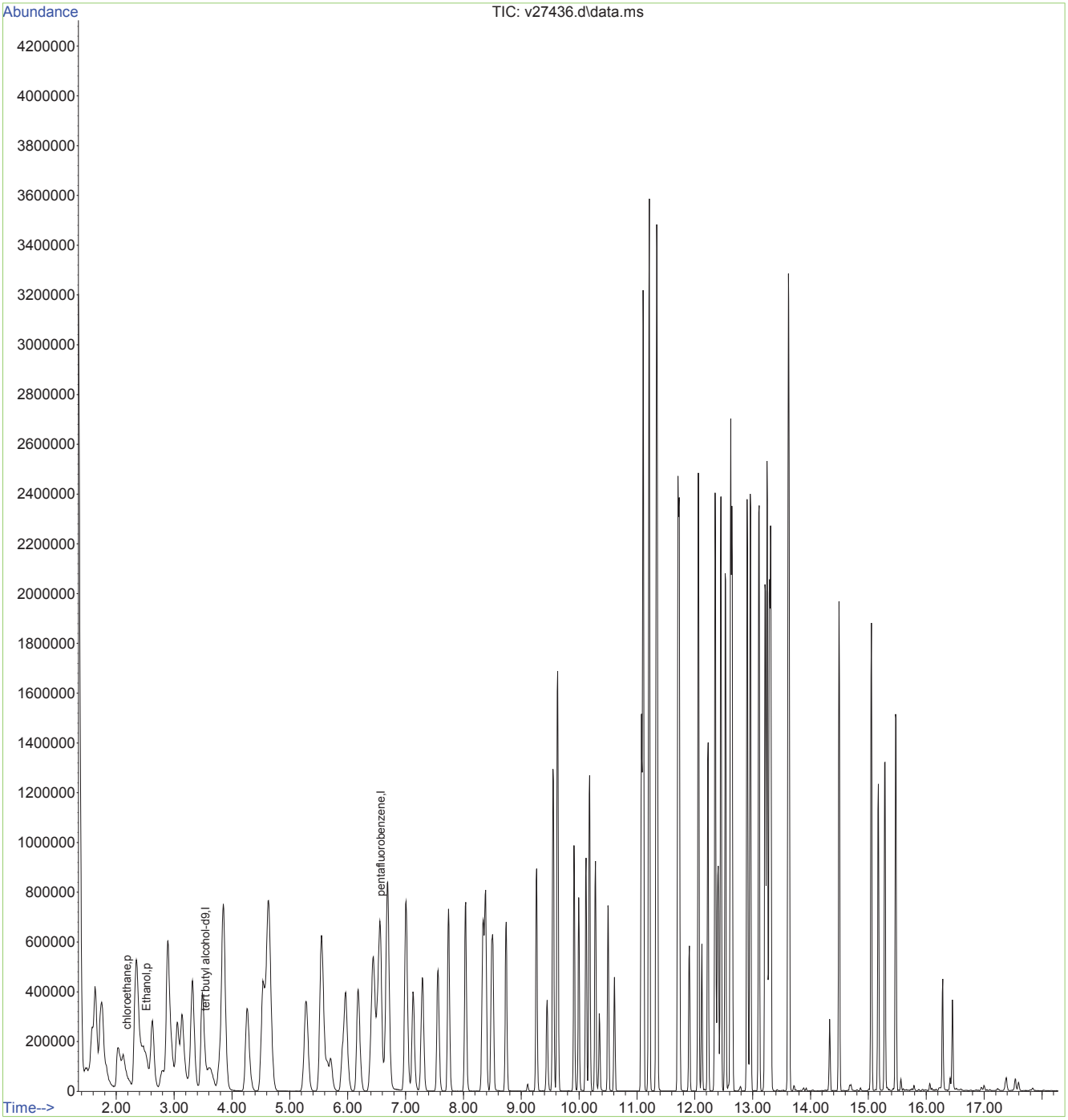
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.541	65	166769	500.00	ug/L	0.02
3) pentafluorobenzene	6.568	168	553229	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.515	45	126548	4567.46	ug/L	# 1
4) chloroethane	2.176	64	256541	60.36	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140129\
Data File : v27436.d
Acq On : 29 Jan 2014 4:20 pm
Operator : amym
Sample : mc27893-2ms
Misc : MS31038,MSV1035,,,,5,5
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 19 08:30:23 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140129\
Data File : v27437.d
Acq On : 29 Jan 2014 4:47 pm
Operator : amym
Sample : mc27893-2msd
Misc : MS31038,MSV1035,,,,5,5
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 19 08:31:24 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

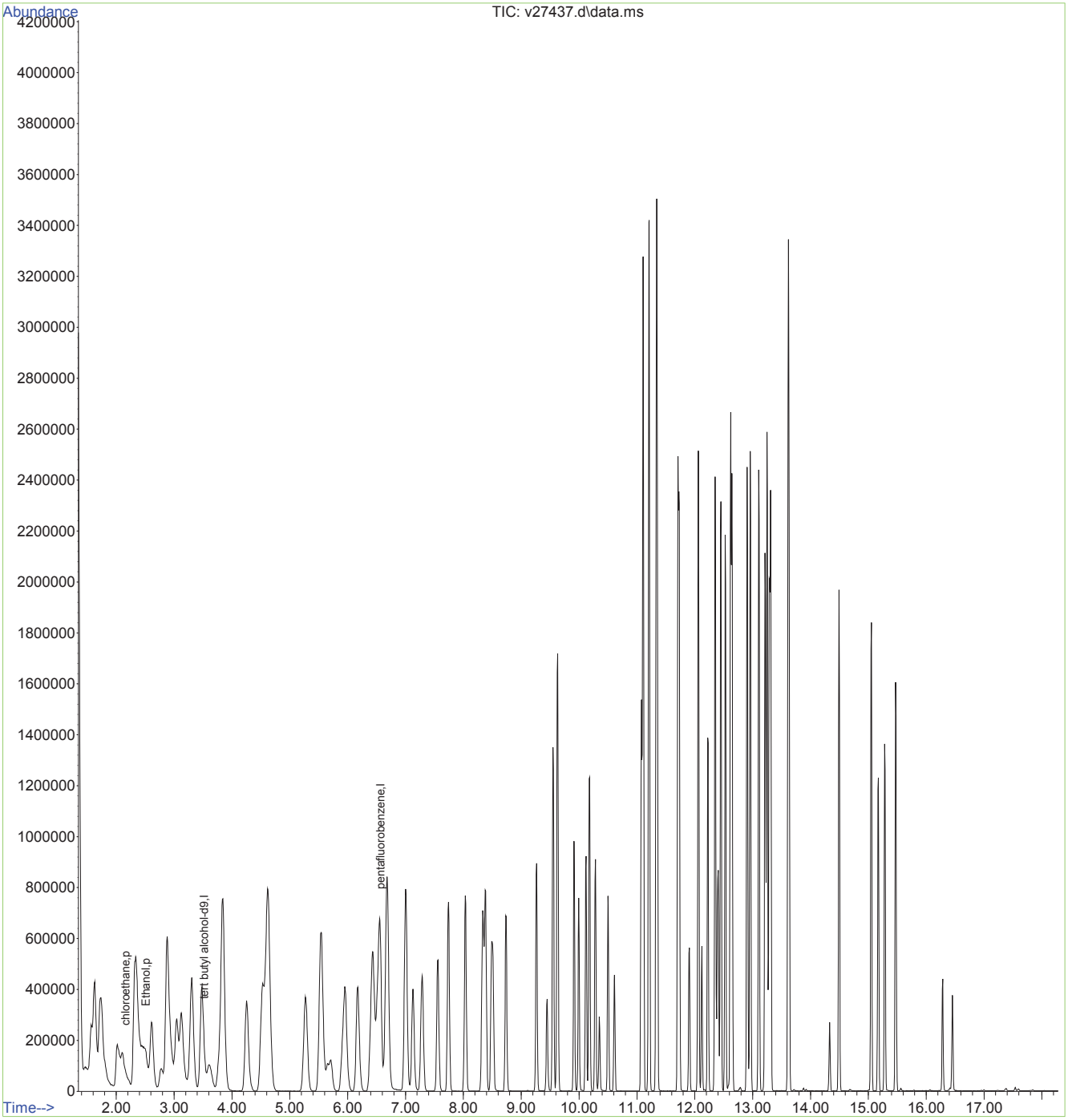
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.518	65	165213	500.00	ug/L	0.00
3) pentafluorobenzene	6.562	168	561722	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.511	45	204126	7737.91	ug/L	# 1
4) chloroethane	2.157	64	252101	58.39	ug/L	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140129\
Data File : v27437.d
Acq On : 29 Jan 2014 4:47 pm
Operator : amym
Sample : mc27893-2msd
Misc : MS31038,MSV1035,,,,5,5
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 19 08:31:24 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Internal Sample Tracking Chronicle

Shell Oil

Job No: MC27893

URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC27893-1 Collected: 24-JAN-14 12:05 By: DMDC Received: 25-JAN-14 By: P74-ROX-012414						
MC27893-1	SW846 8260C	28-JAN-14 14:46	AMY			V8260SL+
MC27893-1	SW846 8011	29-JAN-14 03:45	CZ	27-JAN-14	TA	V8011SL
MC27893-1	SW846 8260C	29-JAN-14 18:06	AMY			V8260SL+
MC27893-1	SW846 8270D	29-JAN-14 23:40	KR	27-JAN-14	MD	AB8270SL+
MC27893-1	SW846 8270D BY SIM	30-JAN-14 17:27	KR	27-JAN-14	MD	B8270SIMSL
MC27893-2 Collected: 24-JAN-14 15:00 By: DMDC Received: 25-JAN-14 By: P93C-ROX-012414						
MC27893-2	SW846 8011	29-JAN-14 04:09	CZ	27-JAN-14	TA	V8011SL
MC27893-2	SW846 8260C	29-JAN-14 14:34	AMY			V8260SL+
MC27893-2	SW846 8270D	30-JAN-14 00:04	KR	27-JAN-14	MD	AB8270SL+
MC27893-2	SW846 8270D BY SIM	30-JAN-14 17:49	KR	27-JAN-14	MD	B8270SIMSL
MC27893-3 Collected: 24-JAN-14 16:05 By: DMDC Received: 25-JAN-14 By: T12-ROX-012414						
MC27893-3	SW846 8260C	28-JAN-14 15:39	AMY			V8260SL+
MC27893-3	SW846 8011	29-JAN-14 04:33	CZ	27-JAN-14	TA	V8011SL
MC27893-3	SW846 8260C	29-JAN-14 17:39	AMY			V8260SL+
MC27893-3	SW846 8270D	30-JAN-14 00:28	KR	27-JAN-14	MD	AB8270SL+
MC27893-3	SW846 8270D BY SIM	30-JAN-14 18:14	KR	27-JAN-14	MD	B8270SIMSL
MC27893-4 Collected: 24-JAN-14 00:00 By: DMDC Received: 25-JAN-14 By: TB-ROX-012414-HCL						
MC27893-4	SW846 8260C	28-JAN-14 13:53	AMY			V8260SL+
MC27893-5 Collected: 24-JAN-14 00:00 By: DMDC Received: 25-JAN-14 By: TB-ROX-012414-ST						
MC27893-5	SW846 8011	29-JAN-14 04:57	CZ	27-JAN-14	TA	V8011SL

SGS Accutest Internal Chain of Custody

Job Number: MC27893
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL
Received: 01/25/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC27893-1.3	VOC Ref #3	Amy Min Yang	01/29/14 12:56	Retrieve from Storage
MC27893-1.3	Amy Min Yang	GCMSV	01/29/14 12:56	Load on Instrument
MC27893-1.3	GCMSV	Amy Min Yang	01/30/14 10:05	Unload from Instrument
MC27893-1.3	Amy Min Yang	VOC Ref #3	01/30/14 10:05	Return to Storage
MC27893-1.3	Scott Parsick		03/25/14 11:35	Disposed
MC27893-1.4	VOC Ref #3	Amy Min Yang	01/28/14 13:17	Retrieve from Storage
MC27893-1.4	Amy Min Yang	GCMSV	01/28/14 13:17	Load on Instrument
MC27893-1.4	GCMSV	Amy Min Yang	01/29/14 12:54	Unload from Instrument
MC27893-1.4	Amy Min Yang	VOC Ref #3	01/29/14 12:54	Return to Storage
MC27893-1.4	Scott Parsick		03/25/14 11:35	Disposed
MC27893-1.6	VOC Ref #3	Marc Tahtamoni	01/27/14 13:55	Retrieve from Storage
MC27893-1.6	Marc Tahtamoni		02/27/14 22:07	Depleted
MC27893-2.3	VOC Ref #3	Amy Min Yang	01/28/14 13:17	Retrieve from Storage
MC27893-2.3	Amy Min Yang	GCMSV	01/28/14 13:17	Load on Instrument
MC27893-2.3	GCMSV	Amy Min Yang	01/29/14 12:54	Unload from Instrument
MC27893-2.3	Amy Min Yang	VOC Ref #3	01/29/14 12:54	Return to Storage
MC27893-2.3	Scott Parsick		03/25/14 11:35	Disposed
MC27893-2.4	VOC Ref #3	Amy Min Yang	01/29/14 12:56	Retrieve from Storage
MC27893-2.4	Amy Min Yang	GCMSV	01/29/14 12:56	Load on Instrument
MC27893-2.4	GCMSV	Amy Min Yang	01/30/14 10:05	Unload from Instrument
MC27893-2.4	Amy Min Yang	VOC Ref #3	01/30/14 10:05	Return to Storage
MC27893-2.4	Scott Parsick		03/25/14 11:35	Disposed
MC27893-2.6	VOC Ref #3	Marc Tahtamoni	01/27/14 13:55	Retrieve from Storage
MC27893-2.6	Marc Tahtamoni		02/27/14 22:07	Depleted
MC27893-3.3	VOC Ref #3	Amy Min Yang	01/28/14 13:17	Retrieve from Storage
MC27893-3.3	Amy Min Yang	GCMSV	01/28/14 13:17	Load on Instrument
MC27893-3.3	GCMSV	Amy Min Yang	01/29/14 12:54	Unload from Instrument
MC27893-3.3	Amy Min Yang	VOC Ref #3	01/29/14 12:54	Return to Storage
MC27893-3.3	Scott Parsick		03/25/14 11:35	Disposed
MC27893-3.4	VOC Ref #3	Amy Min Yang	01/29/14 12:56	Retrieve from Storage
MC27893-3.4	Amy Min Yang	GCMSV	01/29/14 12:56	Load on Instrument
MC27893-3.4	GCMSV	Amy Min Yang	01/30/14 10:05	Unload from Instrument
MC27893-3.4	Amy Min Yang	VOC Ref #3	01/30/14 10:05	Return to Storage
MC27893-3.4	Scott Parsick		03/25/14 11:35	Disposed
MC27893-3.6	VOC Ref #3	Marc Tahtamoni	01/27/14 13:55	Retrieve from Storage
MC27893-3.6	Marc Tahtamoni		02/27/14 22:07	Depleted

SGS Accutest Internal Chain of Custody

Job Number: MC27893
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL
Received: 01/25/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC27893-4.1	VOC Ref #3	Amy Min Yang	01/28/14 13:17	Retrieve from Storage
MC27893-4.1	Amy Min Yang	GCMSV	01/28/14 13:17	Load on Instrument
MC27893-4.1	GCMSV	Amy Min Yang	01/29/14 12:54	Unload from Instrument
MC27893-4.1	Amy Min Yang	VOC Ref #3	01/29/14 12:54	Return to Storage
MC27893-4.1	Scott Parsick		03/25/14 11:35	Disposed
MC27893-5.1	VOC Ref #3	Marc Tahtamoni	01/27/14 13:55	Retrieve from Storage
MC27893-5.1	Marc Tahtamoni		02/27/14 22:07	Depleted

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC27893
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1034-MB	V27398.D	1	01/28/14	AMY	n/a	n/a	MSV1034

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27893-1, MC27893-3, MC27893-4

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	

Method Blank Summary

Job Number: MC27893
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1034-MB	V27398.D	1	01/28/14	AMY	n/a	n/a	MSV1034

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27893-1, MC27893-3, MC27893-4

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
123-91-1	1,4-Dioxane	ND	25	16	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.70	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

Method Blank Summary

Job Number: MC27893
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1034-MB	V27398.D	1	01/28/14	AMY	n/a	n/a	MSV1034

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27893-1, MC27893-3, MC27893-4

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	113%	70-130%
2037-26-5	Toluene-D8	100%	70-130%
460-00-4	4-Bromofluorobenzene	106%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: MC27893
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1035-MB	V27429.D	1	01/29/14	AMY	n/a	n/a	MSV1035

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27893-1, MC27893-2, MC27893-3

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	

Method Blank Summary

Job Number: MC27893
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1035-MB	V27429.D	1	01/29/14	AMY	n/a	n/a	MSV1035

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27893-1, MC27893-2, MC27893-3

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
123-91-1	1,4-Dioxane	ND	25	16	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.70	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

Method Blank Summary

Job Number: MC27893
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1035-MB	V27429.D	1	01/29/14	AMY	n/a	n/a	MSV1035

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27893-1, MC27893-2, MC27893-3

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	105%	70-130%
2037-26-5	Toluene-D8	98%	70-130%
460-00-4	4-Bromofluorobenzene	103%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC27893
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1034-BS	V27394.D	1	01/28/14	AMY	n/a	n/a	MSV1034
MSV1034-BSD	V27395.D	1	01/28/14	AMY	n/a	n/a	MSV1034

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27893-1, MC27893-3, MC27893-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50	48.7	97	52.8	106	8	70-130/25
107-02-8	Acrolein	50	83.5	167* a	82.8	166* a	1	70-130/25
107-13-1	Acrylonitrile	100	107	107	109	109	2	70-130/25
71-43-2	Benzene	50	52.7	105	52.4	105	1	70-130/25
108-86-1	Bromobenzene	50	52.8	106	53.2	106	1	70-130/25
74-97-5	Bromochloromethane	50	52.5	105	53.0	106	1	70-130/25
75-27-4	Bromodichloromethane	50	60.8	122	59.8	120	2	70-130/25
75-25-2	Bromoform	50	43.4	87	44.0	88	1	70-130/25
74-83-9	Bromomethane	50	55.2	110	53.9	108	2	70-130/25
78-93-3	2-Butanone (MEK)	50	48.4	97	49.9	100	3	70-130/25
104-51-8	n-Butylbenzene	50	57.7	115	57.5	115	0	70-130/25
135-98-8	sec-Butylbenzene	50	58.2	116	58.3	117	0	70-130/25
98-06-6	tert-Butylbenzene	50	60.0	120	59.7	119	1	70-130/25
75-15-0	Carbon disulfide	50	44.7	89	43.9	88	2	70-130/25
56-23-5	Carbon tetrachloride	50	63.8	128	62.4	125	2	70-130/25
108-90-7	Chlorobenzene	50	45.0	90	45.7	91	2	70-130/25
75-00-3	Chloroethane	50	68.6	137*	66.6	133*	3	70-130/25
110-75-8	2-Chloroethyl vinyl ether	50	72.4	145* b	96.0	192* b	28* b	70-130/25
67-66-3	Chloroform	50	54.6	109	53.6	107	2	70-130/25
74-87-3	Chloromethane	50	54.5	109	50.4	101	8	70-130/25
95-49-8	o-Chlorotoluene	50	53.2	106	52.9	106	1	70-130/25
106-43-4	p-Chlorotoluene	50	54.5	109	54.8	110	1	70-130/25
124-48-1	Dibromochloromethane	50	56.7	113	57.5	115	1	70-130/25
95-50-1	1,2-Dichlorobenzene	50	48.4	97	49.2	98	2	70-130/25
541-73-1	1,3-Dichlorobenzene	50	49.4	99	49.8	100	1	70-130/25
106-46-7	1,4-Dichlorobenzene	50	49.0	98	49.3	99	1	70-130/25
75-71-8	Dichlorodifluoromethane	50	51.5	103	49.2	98	5	70-130/25
75-34-3	1,1-Dichloroethane	50	55.0	110	54.8	110	0	70-130/25
107-06-2	1,2-Dichloroethane	50	58.7	117	57.3	115	2	70-130/25
75-35-4	1,1-Dichloroethene	50	52.9	106	53.1	106	0	70-130/25
156-59-2	cis-1,2-Dichloroethene	50	52.8	106	52.8	106	0	70-130/25
156-60-5	trans-1,2-Dichloroethene	50	53.1	106	52.4	105	1	70-130/25
78-87-5	1,2-Dichloropropane	50	51.9	104	52.1	104	0	70-130/25
142-28-9	1,3-Dichloropropane	50	49.3	99	49.9	100	1	70-130/25
594-20-7	2,2-Dichloropropane	50	67.2	134* b	65.9	132* b	2	70-130/25
563-58-6	1,1-Dichloropropene	50	55.9	112	54.6	109	2	70-130/25

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC27893
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1034-BS	V27394.D	1	01/28/14	AMY	n/a	n/a	MSV1034
MSV1034-BSD	V27395.D	1	01/28/14	AMY	n/a	n/a	MSV1034

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27893-1, MC27893-3, MC27893-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	50	49.9	100	49.7	99	0	70-130/25
10061-02-6	trans-1,3-Dichloropropene	50	52.9	106	52.7	105	0	70-130/25
123-91-1	1,4-Dioxane	250	223	89	236	94	6	70-130/25
97-63-2	Ethyl methacrylate	50	48.4	97	48.3	97	0	77-137/25
100-41-4	Ethylbenzene	50	52.5	105	52.6	105	0	70-130/25
87-68-3	Hexachlorobutadiene	50	59.4	119	59.3	119	0	70-130/25
591-78-6	2-Hexanone	50	46.8	94	49.8	100	6	70-130/25
98-82-8	Isopropylbenzene	50	59.9	120	59.2	118	1	70-130/25
99-87-6	p-Isopropyltoluene	50	56.7	113	56.9	114	0	70-130/25
1634-04-4	Methyl Tert Butyl Ether	50	56.7	113	57.8	116	2	70-130/25
108-10-1	4-Methyl-2-pentanone (MIBK)	50	56.8	114	57.9	116	2	70-130/25
74-95-3	Methylene bromide	50	54.8	110	54.5	109	1	70-130/25
75-09-2	Methylene chloride	50	48.6	97	48.5	97	0	70-130/25
91-20-3	Naphthalene	50	52.9	106	55.4	111	5	70-130/25
103-65-1	n-Propylbenzene	50	57.3	115	57.1	114	0	70-130/25
100-42-5	Styrene	50	47.5	95	47.8	96	1	70-130/25
630-20-6	1,1,1,2-Tetrachloroethane	50	53.0	106	53.4	107	1	70-130/25
79-34-5	1,1,2,2-Tetrachloroethane	50	51.2	102	52.1	104	2	70-130/25
127-18-4	Tetrachloroethene	50	52.5	105	52.0	104	1	70-130/25
108-88-3	Toluene	50	56.7	113	56.0	112	1	70-130/25
87-61-6	1,2,3-Trichlorobenzene	50	59.4	119	61.6	123	4	70-130/25
120-82-1	1,2,4-Trichlorobenzene	50	59.5	119	61.4	123	3	70-130/25
71-55-6	1,1,1-Trichloroethane	50	61.9	124	60.3	121	3	70-130/25
79-00-5	1,1,2-Trichloroethane	50	52.9	106	53.1	106	0	70-130/25
79-01-6	Trichloroethene	50	56.0	112	55.5	111	1	70-130/25
75-69-4	Trichlorofluoromethane	50	69.0	138* b	66.6	133* b	4	70-130/25
96-18-4	1,2,3-Trichloropropane	50	55.7	111	56.6	113	2	70-130/25
95-63-6	1,2,4-Trimethylbenzene	50	57.8	116	57.6	115	0	70-130/25
108-67-8	1,3,5-Trimethylbenzene	50	58.9	118	59.0	118	0	70-130/25
108-05-4	Vinyl Acetate	50	56.7	113	56.6	113	0	70-130/25
75-01-4	Vinyl chloride	50	50.8	102	50.1	100	1	70-130/25
	m,p-Xylene	100	87.2	87	86.9	87	0	70-130/25
95-47-6	o-Xylene	50	43.5	87	43.7	87	0	70-130/25
1330-20-7	Xylene (total)	150	131	87	131	87	0	70-130/25

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC27893
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1034-BS	V27394.D	1	01/28/14	AMY	n/a	n/a	MSV1034
MSV1034-BSD	V27395.D	1	01/28/14	AMY	n/a	n/a	MSV1034

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27893-1, MC27893-3, MC27893-4

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	101%	100%	70-130%
2037-26-5	Toluene-D8	102%	101%	70-130%
460-00-4	4-Bromofluorobenzene	102%	102%	70-130%

(a) Outside control limits. Associated samples are non-detect for this compound.
(b) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC27893
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1035-BS	V27425.D	1	01/29/14	AMY	n/a	n/a	MSV1035
MSV1035-BSD	V27426.D	1	01/29/14	AMY	n/a	n/a	MSV1035

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27893-1, MC27893-2, MC27893-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50	38.8	78	43.1	86	11	70-130/25
107-02-8	Acrolein	50	79.3	159* [a]	87.7	175* [a]	10	70-130/25
107-13-1	Acrylonitrile	100	98.8	99	109	109	10	70-130/25
71-43-2	Benzene	50	53.0	106	53.2	106	0	70-130/25
108-86-1	Bromobenzene	50	52.9	106	53.1	106	0	70-130/25
74-97-5	Bromochloromethane	50	52.7	105	54.1	108	3	70-130/25
75-27-4	Bromodichloromethane	50	56.5	113	56.5	113	0	70-130/25
75-25-2	Bromoform	50	42.0	84	43.9	88	4	70-130/25
74-83-9	Bromomethane	50	49.2	98	49.4	99	0	70-130/25
78-93-3	2-Butanone (MEK)	50	40.4	81	42.1	84	4	70-130/25
104-51-8	n-Butylbenzene	50	56.8	114	56.8	114	0	70-130/25
135-98-8	sec-Butylbenzene	50	57.7	115	57.4	115	1	70-130/25
98-06-6	tert-Butylbenzene	50	58.1	116	56.9	114	2	70-130/25
75-15-0	Carbon disulfide	50	44.9	90	46.2	92	3	70-130/25
56-23-5	Carbon tetrachloride	50	56.8	114	56.9	114	0	70-130/25
108-90-7	Chlorobenzene	50	45.9	92	46.4	93	1	70-130/25
75-00-3	Chloroethane	50	61.7	123	62.3	125	1	70-130/25
110-75-8	2-Chloroethyl vinyl ether	50	239	478* [a]	411	822* [a]	53* [a]	70-130/25
67-66-3	Chloroform	50	51.9	104	52.3	105	1	70-130/25
74-87-3	Chloromethane	50	46.8	94	47.9	96	2	70-130/25
95-49-8	o-Chlorotoluene	50	52.7	105	52.6	105	0	70-130/25
106-43-4	p-Chlorotoluene	50	53.3	107	53.4	107	0	70-130/25
124-48-1	Dibromochloromethane	50	54.8	110	56.3	113	3	70-130/25
95-50-1	1,2-Dichlorobenzene	50	48.2	96	49.2	98	2	70-130/25
541-73-1	1,3-Dichlorobenzene	50	49.4	99	49.8	100	1	70-130/25
106-46-7	1,4-Dichlorobenzene	50	48.6	97	49.1	98	1	70-130/25
75-71-8	Dichlorodifluoromethane	50	39.8	80	41.2	82	3	70-130/25
75-34-3	1,1-Dichloroethane	50	53.5	107	54.8	110	2	70-130/25
107-06-2	1,2-Dichloroethane	50	51.9	104	52.7	105	2	70-130/25
75-35-4	1,1-Dichloroethene	50	51.9	104	53.9	108	4	70-130/25
156-59-2	cis-1,2-Dichloroethene	50	53.6	107	54.9	110	2	70-130/25
156-60-5	trans-1,2-Dichloroethene	50	52.4	105	53.5	107	2	70-130/25
78-87-5	1,2-Dichloropropane	50	51.6	103	51.8	104	0	70-130/25
142-28-9	1,3-Dichloropropane	50	48.9	98	50.3	101	3	70-130/25
594-20-7	2,2-Dichloropropane	50	63.7	127	64.7	129	2	70-130/25
563-58-6	1,1-Dichloropropene	50	53.0	106	53.1	106	0	70-130/25

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC27893
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1035-BS	V27425.D	1	01/29/14	AMY	n/a	n/a	MSV1035
MSV1035-BSD	V27426.D	1	01/29/14	AMY	n/a	n/a	MSV1035

The QC reported here applies to the following samples: Method: SW846 8260C

MC27893-1, MC27893-2, MC27893-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	50	49.0	98	49.8	100	2	70-130/25
10061-02-6	trans-1,3-Dichloropropene	50	50.2	100	51.2	102	2	70-130/25
123-91-1	1,4-Dioxane	250	214	86	246	98	14	70-130/25
97-63-2	Ethyl methacrylate	50	46.0	92	49.4	99	7	77-137/25
100-41-4	Ethylbenzene	50	53.4	107	53.1	106	1	70-130/25
87-68-3	Hexachlorobutadiene	50	56.5	113	57.2	114	1	70-130/25
591-78-6	2-Hexanone	50	38.0	76	41.7	83	9	70-130/25
98-82-8	Isopropylbenzene	50	59.3	119	58.6	117	1	70-130/25
99-87-6	p-Isopropyltoluene	50	55.7	111	55.8	112	0	70-130/25
1634-04-4	Methyl Tert Butyl Ether	50	56.6	113	61.5	123	8	70-130/25
108-10-1	4-Methyl-2-pentanone (MIBK)	50	50.7	101	57.0	114	12	70-130/25
74-95-3	Methylene bromide	50	50.8	102	52.4	105	3	70-130/25
75-09-2	Methylene chloride	50	49.5	99	50.5	101	2	70-130/25
91-20-3	Naphthalene	50	50.5	101	59.7	119	17	70-130/25
103-65-1	n-Propylbenzene	50	56.2	112	56.3	113	0	70-130/25
100-42-5	Styrene	50	48.7	97	49.1	98	1	70-130/25
630-20-6	1,1,1,2-Tetrachloroethane	50	53.0	106	52.9	106	0	70-130/25
79-34-5	1,1,2,2-Tetrachloroethane	50	48.9	98	52.8	106	8	70-130/25
127-18-4	Tetrachloroethene	50	52.7	105	52.5	105	0	70-130/25
108-88-3	Toluene	50	55.8	112	55.8	112	0	70-130/25
87-61-6	1,2,3-Trichlorobenzene	50	56.8	114	64.2	128	12	70-130/25
120-82-1	1,2,4-Trichlorobenzene	50	58.7	117	63.8	128	8	70-130/25
71-55-6	1,1,1-Trichloroethane	50	58.2	116	58.6	117	1	70-130/25
79-00-5	1,1,2-Trichloroethane	50	50.4	101	52.6	105	4	70-130/25
79-01-6	Trichloroethene	50	54.5	109	54.0	108	1	70-130/25
75-69-4	Trichlorofluoromethane	50	55.9	112	57.2	114	2	70-130/25
96-18-4	1,2,3-Trichloropropane	50	52.0	104	56.1	112	8	70-130/25
95-63-6	1,2,4-Trimethylbenzene	50	57.3	115	57.1	114	0	70-130/25
108-67-8	1,3,5-Trimethylbenzene	50	58.5	117	58.1	116	1	70-130/25
108-05-4	Vinyl Acetate	50	53.3	107	55.6	111	4	70-130/25
75-01-4	Vinyl chloride	50	45.2	90	46.2	92	2	70-130/25
	m,p-Xylene	100	89.4	89	89.0	89	0	70-130/25
95-47-6	o-Xylene	50	45.0	90	44.8	90	0	70-130/25
1330-20-7	Xylene (total)	150	134	89	134	89	0	70-130/25

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC27893
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1035-BS	V27425.D	1	01/29/14	AMY	n/a	n/a	MSV1035
MSV1035-BSD	V27426.D	1	01/29/14	AMY	n/a	n/a	MSV1035

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27893-1, MC27893-2, MC27893-3

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	98%	98%	70-130%
2037-26-5	Toluene-D8	99%	99%	70-130%
460-00-4	4-Bromofluorobenzene	101%	100%	70-130%

(a) Outside control limits. Associated samples are non-detect for this compound.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27893
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC27897-1MS	V27407.D	5	01/28/14	AMY	n/a	n/a	MSV1034
MC27897-1MSD	V27408.D	5	01/28/14	AMY	n/a	n/a	MSV1034
MC27897-1	V27400.D	1	01/28/14	AMY	n/a	n/a	MSV1034

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27893-1, MC27893-3, MC27893-4

CAS No.	Compound	MC27897-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		250	169	68* [a]	250	159	64* [a]	6	70-130/30
107-02-8	Acrolein	ND		250	356	142* [a]	250	359	144* [a]	1	70-130/30
107-13-1	Acrylonitrile	ND		500	555	111	500	550	110	1	70-130/30
71-43-2	Benzene	ND		250	278	111	250	268	107	4	70-130/30
108-86-1	Bromobenzene	ND		250	278	111	250	275	110	1	70-130/30
74-97-5	Bromochloromethane	ND		250	276	110	250	273	109	1	70-130/30
75-27-4	Bromodichloromethane	ND		250	299	120	250	286	114	4	70-130/30
75-25-2	Bromoform	ND		250	226	90	250	227	91	0	70-130/30
74-83-9	Bromomethane	ND		250	244	98	250	240	96	2	70-130/30
78-93-3	2-Butanone (MEK)	ND		250	200	80	250	205	82	2	70-130/30
104-51-8	n-Butylbenzene	ND		250	295	118	250	290	116	2	70-130/30
135-98-8	sec-Butylbenzene	ND		250	302	121	250	298	119	1	70-130/30
98-06-6	tert-Butylbenzene	ND		250	302	121	250	295	118	2	70-130/30
75-15-0	Carbon disulfide	ND		250	236	94	250	227	91	4	70-130/30
56-23-5	Carbon tetrachloride	ND		250	305	122	250	292	117	4	70-130/30
108-90-7	Chlorobenzene	ND		250	240	96	250	236	94	2	70-130/30
75-00-3	Chloroethane	ND		250	311	124	250	301	120	3	70-130/30
110-75-8	2-Chloroethyl vinyl ether	ND		250	ND	0* [a]	250	ND	0* [a]	nc	70-130/30
67-66-3	Chloroform	ND		250	274	110	250	266	106	3	70-130/30
74-87-3	Chloromethane	ND		250	235	94	250	247	99	5	70-130/30
95-49-8	o-Chlorotoluene	ND		250	275	110	250	271	108	1	70-130/30
106-43-4	p-Chlorotoluene	ND		250	280	112	250	276	110	1	70-130/30
124-48-1	Dibromochloromethane	ND		250	296	118	250	290	116	2	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		250	254	102	250	251	100	1	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		250	256	102	250	253	101	1	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		250	255	102	250	253	101	1	70-130/30
75-71-8	Dichlorodifluoromethane	ND		250	232	93	250	223	89	4	70-130/30
75-34-3	1,1-Dichloroethane	ND		250	283	113	250	276	110	3	70-130/30
107-06-2	1,2-Dichloroethane	ND		250	284	114	250	269	108	5	70-130/30
75-35-4	1,1-Dichloroethene	ND		250	281	112	250	273	109	3	70-130/30
156-59-2	cis-1,2-Dichloroethene	2.1		250	285	113	250	281	112	1	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		250	276	110	250	271	108	2	70-130/30
78-87-5	1,2-Dichloropropane	ND		250	270	108	250	264	106	2	70-130/30
142-28-9	1,3-Dichloropropane	ND		250	263	105	250	261	104	1	70-130/30
594-20-7	2,2-Dichloropropane	ND		250	327	131* [a]	250	321	128	2	70-130/30
563-58-6	1,1-Dichloropropene	ND		250	285	114	250	272	109	5	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27893
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC27897-1MS	V27407.D	5	01/28/14	AMY	n/a	n/a	MSV1034
MC27897-1MSD	V27408.D	5	01/28/14	AMY	n/a	n/a	MSV1034
MC27897-1	V27400.D	1	01/28/14	AMY	n/a	n/a	MSV1034

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27893-1, MC27893-3, MC27893-4

CAS No.	Compound	MC27897-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		250	253	101	250	245	98	3	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		250	272	109	250	264	106	3	70-130/30
123-91-1	1,4-Dioxane	ND		1250	1310	105	1250	1330	106	2	70-130/30
97-63-2	Ethyl methacrylate	ND		250	260	104	250	252	101	3	72-139/30
100-41-4	Ethylbenzene	ND		250	276	110	250	272	109	1	70-130/30
87-68-3	Hexachlorobutadiene	ND		250	292	117	250	298	119	2	70-130/30
591-78-6	2-Hexanone	ND		250	207	83	250	207	83	0	70-130/30
98-82-8	Isopropylbenzene	ND		250	310	124	250	305	122	2	70-130/30
99-87-6	p-Isopropyltoluene	ND		250	293	117	250	287	115	2	70-130/30
1634-04-4	Methyl Tert Butyl Ether	ND		250	309	124	250	306	122	1	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	302	121	250	294	118	3	70-130/30
74-95-3	Methylene bromide	ND		250	276	110	250	270	108	2	70-130/30
75-09-2	Methylene chloride	ND		250	258	103	250	254	102	2	70-130/30
91-20-3	Naphthalene	ND		250	261	104	250	295	118	12	70-130/30
103-65-1	n-Propylbenzene	ND		250	293	117	250	290	116	1	70-130/30
100-42-5	Styrene	ND		250	250	100	250	247	99	1	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		250	274	110	250	271	108	1	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	277	111	250	275	110	1	70-130/30
127-18-4	Tetrachloroethene	ND		250	274	110	250	268	107	2	70-130/30
108-88-3	Toluene	ND		250	293	117	250	282	113	4	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		250	288	115	250	314	126	9	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		250	303	121	250	314	126	4	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		250	306	122	250	296	118	3	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		250	277	111	250	271	108	2	70-130/30
79-01-6	Trichloroethene	5.9		250	297	116	250	287	112	3	70-130/30
75-69-4	Trichlorofluoromethane	ND		250	290	116	250	279	112	4	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		250	292	117	250	289	116	1	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		250	299	120	250	291	116	3	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		250	304	122	250	300	120	1	70-130/30
108-05-4	Vinyl Acetate	ND		250	289	116	250	284	114	2	70-130/30
75-01-4	Vinyl chloride	ND		250	229	92	250	220	88	4	70-130/30
	m,p-Xylene	ND		500	456	91	500	449	90	2	70-130/30
95-47-6	o-Xylene	ND		250	231	92	250	225	90	3	70-130/30
1330-20-7	Xylene (total)	ND		750	687	92	750	674	90	2	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27893
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC27897-1MS	V27407.D	5	01/28/14	AMY	n/a	n/a	MSV1034
MC27897-1MSD	V27408.D	5	01/28/14	AMY	n/a	n/a	MSV1034
MC27897-1	V27400.D	1	01/28/14	AMY	n/a	n/a	MSV1034

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27893-1, MC27893-3, MC27893-4

CAS No.	Surrogate Recoveries	MS	MSD	MC27897-1	Limits
1868-53-7	Dibromofluoromethane	97%	99%	112%	70-130%
2037-26-5	Toluene-D8	99%	99%	100%	70-130%
460-00-4	4-Bromofluorobenzene	101%	102%	106%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27893
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC27893-2MS	V27436.D	5	01/29/14	AMY	n/a	n/a	MSV1035
MC27893-2MSD	V27437.D	5	01/29/14	AMY	n/a	n/a	MSV1035
MC27893-2	V27432.D	1	01/29/14	AMY	n/a	n/a	MSV1035

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27893-1, MC27893-2, MC27893-3

CAS No.	Compound	MC27893-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		250	143	57* [a]	250	151	60* [a]	5	70-130/30
107-02-8	Acrolein	ND		250	339	136* [a]	250	339	136* [a]	0	70-130/30
107-13-1	Acrylonitrile	ND		500	515	103	500	503	101	2	70-130/30
71-43-2	Benzene	ND		250	280	112	250	277	111	1	70-130/30
108-86-1	Bromobenzene	ND		250	278	111	250	277	111	0	70-130/30
74-97-5	Bromochloromethane	ND		250	275	110	250	276	110	0	70-130/30
75-27-4	Bromodichloromethane	ND		250	292	117	250	289	116	1	70-130/30
75-25-2	Bromoform	ND		250	222	89	250	215	86	3	70-130/30
74-83-9	Bromomethane	ND		250	239	96	250	234	94	2	70-130/30
78-93-3	2-Butanone (MEK)	ND		250	189	76	250	189	76	0	70-130/30
104-51-8	n-Butylbenzene	ND		250	297	119	250	296	118	0	70-130/30
135-98-8	sec-Butylbenzene	ND		250	305	122	250	305	122	0	70-130/30
98-06-6	tert-Butylbenzene	ND		250	300	120	250	300	120	0	70-130/30
75-15-0	Carbon disulfide	ND		250	223	89	250	227	91	2	70-130/30
56-23-5	Carbon tetrachloride	ND		250	300	120	250	290	116	3	70-130/30
108-90-7	Chlorobenzene	ND		250	242	97	250	239	96	1	70-130/30
75-00-3	Chloroethane	ND		250	302	121	250	292	117	3	70-130/30
110-75-8	2-Chloroethyl vinyl ether	ND		250	202	81	250	13.9	6* [a]	174* [b]	70-130/30
67-66-3	Chloroform	ND		250	272	109	250	265	106	3	70-130/30
74-87-3	Chloromethane	ND		250	239	96	250	240	96	0	70-130/30
95-49-8	o-Chlorotoluene	ND		250	275	110	250	274	110	0	70-130/30
106-43-4	p-Chlorotoluene	ND		250	281	112	250	279	112	1	70-130/30
124-48-1	Dibromochloromethane	ND		250	290	116	250	285	114	2	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		250	254	102	250	253	101	0	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		250	259	104	250	258	103	0	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		250	256	102	250	255	102	0	70-130/30
75-71-8	Dichlorodifluoromethane	ND		250	225	90	250	216	86	4	70-130/30
75-34-3	1,1-Dichloroethane	ND		250	282	113	250	276	110	2	70-130/30
107-06-2	1,2-Dichloroethane	ND		250	272	109	250	263	105	3	70-130/30
75-35-4	1,1-Dichloroethene	ND		250	277	111	250	274	110	1	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		250	284	114	250	283	113	0	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		250	278	111	250	275	110	1	70-130/30
78-87-5	1,2-Dichloropropane	ND		250	272	109	250	272	109	0	70-130/30
142-28-9	1,3-Dichloropropane	ND		250	261	104	250	257	103	2	70-130/30
594-20-7	2,2-Dichloropropane	ND		250	339	136* [a]	250	321	128	5	70-130/30
563-58-6	1,1-Dichloropropene	ND		250	284	114	250	276	110	3	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27893
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC27893-2MS	V27436.D	5	01/29/14	AMY	n/a	n/a	MSV1035
MC27893-2MSD	V27437.D	5	01/29/14	AMY	n/a	n/a	MSV1035
MC27893-2	V27432.D	1	01/29/14	AMY	n/a	n/a	MSV1035

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27893-1, MC27893-2, MC27893-3

CAS No.	Compound	MC27893-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		250	254	102	250	253	101	0	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		250	265	106	250	263	105	1	70-130/30
123-91-1	1,4-Dioxane	ND		1250	945	76	1250	1090	87	14	70-130/30
97-63-2	Ethyl methacrylate	ND		250	254	102	250	246	98	3	72-139/30
100-41-4	Ethylbenzene	ND		250	281	112	250	275	110	2	70-130/30
87-68-3	Hexachlorobutadiene	ND		250	287	115	250	295	118	3	70-130/30
591-78-6	2-Hexanone	ND		250	201	80	250	189	76	6	70-130/30
98-82-8	Isopropylbenzene	ND		250	309	124	250	309	124	0	70-130/30
99-87-6	p-Isopropyltoluene	ND		250	295	118	250	293	117	1	70-130/30
1634-04-4	Methyl Tert Butyl Ether	4.7		250	297	117	250	286	113	4	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	286	114	250	270	108	6	70-130/30
74-95-3	Methylene bromide	ND		250	270	108	250	262	105	3	70-130/30
75-09-2	Methylene chloride	ND		250	259	104	250	254	102	2	70-130/30
91-20-3	Naphthalene	ND		250	262	105	250	261	104	0	70-130/30
103-65-1	n-Propylbenzene	ND		250	295	118	250	295	118	0	70-130/30
100-42-5	Styrene	ND		250	258	103	250	253	101	2	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		250	277	111	250	269	108	3	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	268	107	250	259	104	3	70-130/30
127-18-4	Tetrachloroethene	ND		250	277	111	250	275	110	1	70-130/30
108-88-3	Toluene	ND		250	292	117	250	292	117	0	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		250	285	114	250	292	117	2	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		250	312	125	250	312	125	0	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		250	301	120	250	294	118	2	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		250	268	107	250	266	106	1	70-130/30
79-01-6	Trichloroethene	ND		250	285	114	250	281	112	1	70-130/30
75-69-4	Trichlorofluoromethane	ND		250	283	113	250	267	107	6	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		250	281	112	250	273	109	3	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		250	296	118	250	297	119	0	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		250	303	121	250	300	120	1	70-130/30
108-05-4	Vinyl Acetate	ND		250	285	114	250	275	110	4	70-130/30
75-01-4	Vinyl chloride	ND		250	223	89	250	219	88	2	70-130/30
	m,p-Xylene	ND		500	465	93	500	463	93	0	70-130/30
95-47-6	o-Xylene	ND		250	234	94	250	232	93	1	70-130/30
1330-20-7	Xylene (total)	ND		750	699	93	750	695	93	1	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27893
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC27893-2MS	V27436.D	5	01/29/14	AMY	n/a	n/a	MSV1035
MC27893-2MSD	V27437.D	5	01/29/14	AMY	n/a	n/a	MSV1035
MC27893-2	V27432.D	1	01/29/14	AMY	n/a	n/a	MSV1035

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27893-1, MC27893-2, MC27893-3

CAS No.	Surrogate Recoveries	MS	MSD	MC27893-2	Limits
1868-53-7	Dibromofluoromethane	97%	95%	107%	70-130%
2037-26-5	Toluene-D8	99%	98%	98%	70-130%
460-00-4	4-Bromofluorobenzene	100%	100%	106%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.
(b) High RPD due to possible matrix interference and/or sample non-homogeneity.

* = Outside of Control Limits.

Volatile Internal Standard Area Summary

Job Number: MC27893
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSV1034-CC1019	**Injection Date:**	01/28/14
Lab File ID:	V27394.D	**Injection Time:**	11:42
Instrument ID:	GCMSV	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	428135	6.55	538099	7.73	314169	11.07	333134	13.28	142241	3.51
Upper Limit [a]	856270	7.05	1076198	8.23	628338	11.57	666268	13.78	284482	4.01
Lower Limit [b]	214068	6.05	269050	7.23	157085	10.57	166567	12.78	71121	3.01

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSV1034-BS	428135	6.55	538099	7.73	314169	11.07	333134	13.28	142241	3.51
MSV1034-BSD	447841	6.54	564351	7.73	323136	11.07	343804	13.28	157721	3.50
MSV1034-MB	339139	6.55	464620	7.73	270440	11.07	259458	13.28	139377	3.51
MC27893-4	329804	6.55	453003	7.73	267965	11.07	253213	13.28	129567	3.50
MC27897-1	323400	6.55	437961	7.73	255838	11.07	242654	13.28	132358	3.51
MC27893-1	420000	6.55	652384	7.73	347301	11.07	345275	13.28	184052	3.51
MC27893-3	583929	6.55	818213	7.73	426068	11.07	466910	13.28	0*	0.00*
ZZZZZZ	523631	6.55	705664	7.73	392134	11.07	391726	13.28	213300	3.51
ZZZZZZ	473893	6.55	630840	7.73	350362	11.07	341749	13.28	193589	3.51
ZZZZZZ	450143	6.55	616597	7.73	338033	11.07	330070	13.28	184466	3.51
MC27897-1MS	504413	6.54	637109	7.73	361898	11.07	383877	13.28	190478	3.51
MC27897-1MSD	521883	6.54	674356	7.73	372807	11.07	397062	13.28	196183	3.50
ZZZZZZ	476087	6.54	639039	7.72	352421	11.06	347531	13.28	185151	3.50
ZZZZZZ	449846	6.54	607467	7.72	336232	11.06	327379	13.28	174738	3.50
ZZZZZZ	438827	6.55	600950	7.73	333406	11.07	320803	13.28	171065	3.51
ZZZZZZ	410860	6.54	556822	7.73	316976	11.07	304908	13.28	161337	3.51
ZZZZZZ	396903	6.55	539688	7.73	311354	11.07	305060	13.28	153690	3.51
ZZZZZZ	395530	6.54	536172	7.72	306499	11.07	292759	13.28	149249	3.50
ZZZZZZ	398425	6.55	542037	7.73	308912	11.07	299368	13.28	163196	3.51
ZZZZZZ	379822	6.55	519520	7.73	299053	11.07	289147	13.28	153306	3.50
ZZZZZZ	378726	6.54	521537	7.72	319243	11.07	339972	13.28	0*	0.00*

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: MC27893
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSV1035-CC1019	**Injection Date:**	01/29/14
Lab File ID:	V27424.D	**Injection Time:**	11:03
Instrument ID:	GCMSV	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	530361	6.56	676996	7.74	381897	11.08	412049	13.29	173284	3.52
Upper Limit [a]	1060722	7.06	1353992	8.24	763794	11.58	824098	13.79	346568	4.02
Lower Limit [b]	265181	6.06	338498	7.24	190949	10.58	206025	12.79	86642	3.02

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSV1035-BS	543620	6.56	698899	7.74	385229	11.08	415808	13.29	165753	3.52
MSV1035-BSD	544877	6.56	697958	7.74	387523	11.08	419770	13.29	199457	3.53
MSV1035-MB	439388	6.56	600006	7.74	340247	11.08	328346	13.29	137712	3.52
ZZZZZZ	435813	6.56	595677	7.74	339748	11.08	336170	13.29	155436	3.52
ZZZZZZ	447783	6.57	615156	7.75	352447	11.08	339571	13.29	166997	3.52
MC27893-2	416411	6.56	567728	7.74	323053	11.08	309090	13.29	143137	3.52
ZZZZZZ	450714	6.56	575104	7.74	328234	11.08	306607	13.29	125183	3.52
ZZZZZZ	387492	6.57	531510	7.74	327736	11.08	340545	13.29	114614	3.63
MC27893-2MS	553229	6.57	706986	7.75	390728	11.08	422135	13.29	166769	3.54
MC27893-2MSD	561722	6.56	714234	7.74	397041	11.08	423876	13.29	165213	3.52
ZZZZZZ	512071	6.56	678048	7.74	374522	11.08	373728	13.29	180425	3.52
MC27893-3	541592	6.56	700736	7.74	388660	11.08	394843	13.29	194943	3.52
MC27893-1	521235	6.56	709489	7.74	393174	11.07	394263	13.29	191620	3.52
ZZZZZZ	480517	6.56	650363	7.74	362801	11.07	360914	13.29	161482	3.51
ZZZZZZ	470840	6.56	634308	7.74	356556	11.07	357392	13.29	148282	3.51
ZZZZZZ	462841	6.56	622948	7.73	369659	11.07	364360	13.29	167695	3.52
ZZZZZZ	469582	6.56	638033	7.74	359318	11.07	352593	13.29	172235	3.52
ZZZZZZ	457675	6.56	621354	7.74	349693	11.07	339227	13.28	162192	3.52
ZZZZZZ	458341	6.56	629981	7.74	353869	11.07	342808	13.28	147617	3.52
ZZZZZZ	462135	6.56	593543	7.73	330879	11.07	319685	13.28	141918	3.52
ZZZZZZ	429912	6.55	572799	7.73	331465	11.07	330214	13.28	145970	3.51
ZZZZZZ	418182	6.56	564553	7.73	320747	11.07	313699	13.28	156276	3.52
ZZZZZZ	515940	6.55	647579	7.73	368659	11.07	371185	13.28	224455	3.51
ZZZZZZ	487681	6.55	641392	7.74	360941	11.07	365688	13.28	143154	3.51

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: MC27893
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Method: SW846 8260C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC27893-1	V27440.D	101	97	103
MC27893-1	V27401.D	98	93	106
MC27893-2	V27432.D	107	98	106
MC27893-3	V27439.D	97	98	103
MC27893-3	V27403.D	94	92	105
MC27893-4	V27399.D	114	100	106
MC27893-2MS	V27436.D	97	99	100
MC27893-2MSD	V27437.D	95	98	100
MC27897-1MS	V27407.D	97	99	101
MC27897-1MSD	V27408.D	99	99	102
MSV1034-BS	V27394.D	101	102	102
MSV1034-BSD	V27395.D	100	101	102
MSV1034-MB	V27398.D	113	100	106
MSV1035-BS	V27425.D	98	99	101
MSV1035-BSD	V27426.D	98	99	100
MSV1035-MB	V27429.D	105	98	103

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	70-130%
S2 = Toluene-D8	70-130%
S3 = 4-Bromofluorobenzene	70-130%

GC/MS Semi-volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC27893
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36666-MB	W17443.D	1	01/29/14	KR	01/27/14	OP36666	MSW766

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC27893-1, MC27893-2, MC27893-3

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.38	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.49	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.33	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	ND	10	1.3	ug/l	
	3&4-Methylphenol	ND	10	2.0	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.50	ug/l	
100-02-7	4-Nitrophenol	ND	20	0.58	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	ND	5.0	0.51	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.57	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.32	ug/l	
62-53-3	Aniline	ND	10	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.20	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.85	ug/l	
100-51-6	Benzyl Alcohol	ND	10	0.57	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.92	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.25	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.21	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.23	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.13	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.20	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.65	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.68	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.64	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.50	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.39	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	0.43	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	0.50	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.50	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.49	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.30	ug/l	

Method Blank Summary

Job Number: MC27893
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36666-MB	W17443.D	1	01/29/14	KR	01/27/14	OP36666	MSW766

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC27893-1, MC27893-2, MC27893-3

CAS No.	Compound	Result	RL	MDL	Units	Q
77-47-4	Hexachlorocyclopentadiene	ND	10	2.5	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.44	ug/l	
78-59-1	Isophorone	ND	5.0	0.20	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.50	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.3	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.25	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.0	0.50	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.81	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.54	ug/l	
110-86-1	Pyridine	ND	10	0.52	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	49%	15-110%
4165-62-2	Phenol-d5	33%	15-110%
118-79-6	2,4,6-Tribromophenol	105%	15-110%
4165-60-0	Nitrobenzene-d5	72%	30-130%
321-60-8	2-Fluorobiphenyl	76%	30-130%
1718-51-0	Terphenyl-d14	100%	30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

Method Blank Summary

Job Number: MC27893
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36668-MB	I87120.D	1	01/30/14	KR	01/27/14	OP36668	MSI3240

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

MC27893-1, MC27893-2, MC27893-3

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.069	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.050	ug/l	
120-12-7	Anthracene	ND	0.10	0.092	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	0.020	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.029	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	0.032	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.027	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.039	ug/l	
218-01-9	Chrysene	ND	0.10	0.024	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.032	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.041	ug/l	
86-73-7	Fluorene	ND	0.10	0.099	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.031	ug/l	
90-12-0	1-Methylnaphthalene	0.052	0.20	0.050	ug/l	J
91-57-6	2-Methylnaphthalene	ND	0.20	0.074	ug/l	
85-01-8	Phenanthrene	0.029	0.050	0.013	ug/l	J
129-00-0	Pyrene	ND	0.10	0.038	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	80%	30-130%
321-60-8	2-Fluorobiphenyl	70%	30-130%
1718-51-0	Terphenyl-d14	88%	30-130%

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC27893
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36666-BS	W17444.D	1	01/29/14	KR	01/27/14	OP36666	MSW766
OP36666-BSD	W17445.D	1	01/29/14	KR	01/27/14	OP36666	MSW766

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC27893-1, MC27893-2, MC27893-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	50	23.7	47	24.5	49	3	30-130/20
95-57-8	2-Chlorophenol	50	41.5	83	40.6	81	2	30-130/20
59-50-7	4-Chloro-3-methyl phenol	50	40.5	81	40.6	81	0	30-130/20
120-83-2	2,4-Dichlorophenol	50	41.5	83	41.6	83	0	30-130/20
105-67-9	2,4-Dimethylphenol	50	32.1	64	29.3	59	9	30-130/20
51-28-5	2,4-Dinitrophenol	50	37.5	75	38.6	77	3	30-130/20
534-52-1	4,6-Dinitro-o-cresol	50	51.2	102	50.8	102	1	30-130/20
95-48-7	2-Methylphenol	50	35.2	70	34.6	69	2	30-130/20
	3&4-Methylphenol	100	63.8	64	64.6	65	1	30-130/20
88-75-5	2-Nitrophenol	50	44.0	88	43.5	87	1	30-130/20
100-02-7	4-Nitrophenol	50	16.6	33	16.6	33	0	30-130/20
87-86-5	Pentachlorophenol	50	43.8	88	43.3	87	1	30-130/20
108-95-2	Phenol	50	18.6	37	18.9	38	2	30-130/20
95-95-4	2,4,5-Trichlorophenol	50	42.4	85	43.1	86	2	30-130/20
88-06-2	2,4,6-Trichlorophenol	50	43.3	87	42.7	85	1	30-130/20
62-53-3	Aniline	50	28.1	56	27.2	54	3	40-140/20
101-55-3	4-Bromophenyl phenyl ether	50	62.9	126	61.1	122	3	40-140/20
85-68-7	Butyl benzyl phthalate	50	51.9	104	49.9	100	4	40-140/20
100-51-6	Benzyl Alcohol	50	38.3	77	37.4	75	2	40-140/20
91-58-7	2-Chloronaphthalene	50	44.0	88	43.2	86	2	40-140/20
106-47-8	4-Chloroaniline	50	42.6	85	39.9	80	7	40-140/20
111-91-1	bis(2-Chloroethoxy)methane	50	38.0	76	36.4	73	4	40-140/20
111-44-4	bis(2-Chloroethyl)ether	50	50.1	100	48.2	96	4	40-140/20
108-60-1	bis(2-Chloroisopropyl)ether	50	104	208* [a]	100	200* [a]	4	40-140/20
7005-72-3	4-Chlorophenyl phenyl ether	50	51.8	104	51.6	103	0	40-140/20
122-66-7	1,2-Diphenylhydrazine	50	52.5	105	49.5	99	6	40-140/20
121-14-2	2,4-Dinitrotoluene	50	50.9	102	50.2	100	1	40-140/20
606-20-2	2,6-Dinitrotoluene	50	50.3	101	49.6	99	1	40-140/20
91-94-1	3,3'-Dichlorobenzidine	50	43.0	86	41.3	83	4	40-140/20
132-64-9	Dibenzofuran	50	48.3	97	48.3	97	0	40-140/20
84-74-2	Di-n-butyl phthalate	50	48.5	97	45.7	91	6	40-140/20
117-84-0	Di-n-octyl phthalate	50	50.3	101	48.4	97	4	40-140/20
84-66-2	Diethyl phthalate	50	42.0	84	39.8	80	5	40-140/20
131-11-3	Dimethyl phthalate	50	30.0	60	25.7	51	15	40-140/20
117-81-7	bis(2-Ethylhexyl)phthalate	50	55.1	110	53.3	107	3	40-140/20
118-74-1	Hexachlorobenzene	50	66.1	132	62.1	124	6	40-140/20

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC27893
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36666-BS	W17444.D	1	01/29/14	KR	01/27/14	OP36666	MSW766
OP36666-BSD	W17445.D	1	01/29/14	KR	01/27/14	OP36666	MSW766

The QC reported here applies to the following samples: Method: SW846 8270D

MC27893-1, MC27893-2, MC27893-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
77-47-4	Hexachlorocyclopentadiene	50	48.4	97	47.5	95	2	40-140/20
67-72-1	Hexachloroethane	50	27.4	55	28.0	56	2	40-140/20
78-59-1	Isophorone	50	47.6	95	46.1	92	3	40-140/20
88-74-4	2-Nitroaniline	50	51.6	103	50.4	101	2	40-140/20
99-09-2	3-Nitroaniline	50	45.7	91	44.4	89	3	40-140/20
100-01-6	4-Nitroaniline	50	47.6	95	46.2	92	3	40-140/20
98-95-3	Nitrobenzene	50	45.5	91	42.9	86	6	40-140/20
62-75-9	n-Nitrosodimethylamine	50	36.3	73	35.4	71	3	40-140/20
621-64-7	N-Nitroso-di-n-propylamine	50	45.0	90	44.4	89	1	40-140/20
86-30-6	N-Nitrosodiphenylamine	50	50.3	101	48.1	96	4	40-140/20
110-86-1	Pyridine	50	31.1	62	29.6	59	5	40-140/20

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
367-12-4	2-Fluorophenol	50%	50%	15-110%
4165-62-2	Phenol-d5	33%	33%	15-110%
118-79-6	2,4,6-Tribromophenol	114%* b	109%	15-110%
4165-60-0	Nitrobenzene-d5	75%	73%	30-130%
321-60-8	2-Fluorobiphenyl	78%	78%	30-130%
1718-51-0	Terphenyl-d14	103%	101%	30-130%

(a) Outside control limits. Associated samples are non-detect for this compound.
(b) Outside control limits. Associated target analytes are non-detect.

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC27893
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36668-BS	I87121.D	1	01/30/14	KR	01/27/14	OP36668	MSI3240
OP36668-BSD	I87122.D	1	01/30/14	KR	01/27/14	OP36668	MSI3240

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

MC27893-1, MC27893-2, MC27893-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	50	47.4	95	45.8	92	3	40-140/30
208-96-8	Acenaphthylene	50	40.4	81	39.1	78	3	40-140/30
120-12-7	Anthracene	50	46.6	93	44.9	90	4	40-140/30
56-55-3	Benzo(a)anthracene	50	56.7	113	53.7	107	5	40-140/30
50-32-8	Benzo(a)pyrene	50	53.1	106	51.2	102	4	40-140/30
205-99-2	Benzo(b)fluoranthene	50	59.3	119	52.6	105	12	40-140/30
191-24-2	Benzo(g,h,i)perylene	50	60.1	120	58.6	117	3	40-140/30
207-08-9	Benzo(k)fluoranthene	50	53.0	106	55.7	111	5	40-140/30
218-01-9	Chrysene	50	54.0	108	51.1	102	6	40-140/30
53-70-3	Dibenzo(a,h)anthracene	50	61.2	122	59.2	118	3	40-140/30
206-44-0	Fluoranthene	50	54.0	108	50.9	102	6	40-140/30
86-73-7	Fluorene	50	47.5	95	46.1	92	3	40-140/30
193-39-5	Indeno(1,2,3-cd)pyrene	50	60.9	122	58.7	117	4	40-140/30
90-12-0	1-Methylnaphthalene	50	40.1	80	40.0	80	0	40-140/30
91-57-6	2-Methylnaphthalene	50	39.5	79	39.0	78	1	40-140/30
85-01-8	Phenanthrene	50	47.4	95	46.0	92	3	40-140/30
129-00-0	Pyrene	50	52.8	106	50.4	101	5	40-140/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
4165-60-0	Nitrobenzene-d5	83%	82%	30-130%
321-60-8	2-Fluorobiphenyl	73%	71%	30-130%
1718-51-0	Terphenyl-d14	91%	87%	30-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27893
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36666-MS	W17464.D	1	01/29/14	KR	01/27/14	OP36666	MSW767
OP36666-MSD	W17465.D	1	01/29/14	KR	01/27/14	OP36666	MSW767
MC27800-1	W17466.D	1	01/29/14	KR	01/27/14	OP36666	MSW767

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC27893-1, MC27893-2, MC27893-3

CAS No.	Compound	MC27800-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		50	21.6	43	50	22.0	44	2	30-130/20
95-57-8	2-Chlorophenol	ND		50	41.4	83	50	40.4	81	2	30-130/20
59-50-7	4-Chloro-3-methyl phenol	ND		50	40.4	81	50	38.8	78	4	30-130/20
120-83-2	2,4-Dichlorophenol	ND		50	41.7	83	50	40.1	80	4	30-130/20
105-67-9	2,4-Dimethylphenol	ND		50	25.8	52	50	20.2	40	24* [a]	30-130/20
51-28-5	2,4-Dinitrophenol	ND		50	14.3	29* [b]	50	15.0	30	5	30-130/20
534-52-1	4,6-Dinitro-o-cresol	ND		50	24.0	48	50	24.1	48	0	30-130/20
95-48-7	2-Methylphenol	ND		50	35.3	71	50	34.2	68	3	30-130/20
	3&4-Methylphenol	ND		100	65.8	66	100	61.9	62	6	30-130/20
88-75-5	2-Nitrophenol	ND		50	42.5	85	50	40.6	81	5	30-130/20
100-02-7	4-Nitrophenol	ND		50	16.3	33	50	15.7	31	4	30-130/20
87-86-5	Pentachlorophenol	ND		50	42.1	84	50	40.4	81	4	30-130/20
108-95-2	Phenol	ND		50	19.3	39	50	18.7	37	3	30-130/20
95-95-4	2,4,5-Trichlorophenol	ND		50	42.0	84	50	40.4	81	4	30-130/20
88-06-2	2,4,6-Trichlorophenol	ND		50	41.7	83	50	41.0	82	2	30-130/20
62-53-3	Aniline	ND		50	26.6	53	50	25.7	51	3	40-140/20
101-55-3	4-Bromophenyl phenyl ether	ND		50	61.9	124	50	61.8	124	0	40-140/20
85-68-7	Butyl benzyl phthalate	ND		50	52.6	105	50	50.3	101	4	40-140/20
100-51-6	Benzyl Alcohol	ND		50	34.4	69	50	33.6	67	2	40-140/20
91-58-7	2-Chloronaphthalene	ND		50	42.9	86	50	41.8	84	3	40-140/20
106-47-8	4-Chloroaniline	ND		50	40.5	81	50	38.9	78	4	40-140/20
111-91-1	bis(2-Chloroethoxy)methane	ND		50	36.6	73	50	35.3	71	4	40-140/20
111-44-4	bis(2-Chloroethyl)ether	ND		50	49.4	99	50	48.7	97	1	40-140/20
108-60-1	bis(2-Chloroisopropyl)ether	ND		50	103	206* [c]	50	101	202* [c]	2	40-140/20
7005-72-3	4-Chlorophenyl phenyl ether	ND		50	50.9	102	50	49.7	99	2	40-140/20
122-66-7	1,2-Diphenylhydrazine	ND		50	50.0	100	50	49.3	99	1	40-140/20
121-14-2	2,4-Dinitrotoluene	ND		50	49.3	99	50	49.2	98	0	40-140/20
606-20-2	2,6-Dinitrotoluene	ND		50	48.6	97	50	46.4	93	5	40-140/20
91-94-1	3,3'-Dichlorobenzidine	ND		50	44.9	90	50	45.4	91	1	40-140/20
132-64-9	Dibenzofuran	ND		50	46.8	94	50	46.3	93	1	40-140/20
84-74-2	Di-n-butyl phthalate	ND		50	48.3	97	50	46.5	93	4	40-140/20
117-84-0	Di-n-octyl phthalate	ND		50	50.9	102	50	49.3	99	3	40-140/20
84-66-2	Diethyl phthalate	ND		50	42.2	84	50	37.8	76	11	40-140/20
131-11-3	Dimethyl phthalate	ND		50	30.6	61	50	21.8	44	34* [a]	40-140/20
117-81-7	bis(2-Ethylhexyl)phthalate	ND		50	56.0	112	50	53.7	107	4	40-140/20
118-74-1	Hexachlorobenzene	ND		50	60.7	121	50	62.1	124	2	40-140/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27893
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36666-MS	W17464.D	1	01/29/14	KR	01/27/14	OP36666	MSW767
OP36666-MSD	W17465.D	1	01/29/14	KR	01/27/14	OP36666	MSW767
MC27800-1	W17466.D	1	01/29/14	KR	01/27/14	OP36666	MSW767

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC27893-1, MC27893-2, MC27893-3

CAS No.	Compound	MC27800-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
77-47-4	Hexachlorocyclopentadiene	ND		50	34.6	69	50	32.5	65	6	40-140/20
67-72-1	Hexachloroethane	ND		50	27.8	56	50	26.5	53	5	40-140/20
78-59-1	Isophorone	ND		50	46.5	93	50	45.5	91	2	40-140/20
88-74-4	2-Nitroaniline	ND		50	50.1	100	50	49.9	100	0	40-140/20
99-09-2	3-Nitroaniline	ND		50	45.1	90	50	44.5	89	1	40-140/20
100-01-6	4-Nitroaniline	ND		50	47.0	94	50	45.9	92	2	40-140/20
98-95-3	Nitrobenzene	ND		50	43.9	88	50	43.0	86	2	40-140/20
62-75-9	n-Nitrosodimethylamine	ND		50	33.8	68	50	34.3	69	1	40-140/20
621-64-7	N-Nitroso-di-n-propylamine	ND		50	45.3	91	50	44.0	88	3	40-140/20
86-30-6	N-Nitrosodiphenylamine	ND		50	48.6	97	50	47.3	95	3	40-140/20
110-86-1	Pyridine	ND		50	28.4	57	50	29.3	59	3	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC27800-1	Limits
367-12-4	2-Fluorophenol	50%	50%	51%	15-110%
4165-62-2	Phenol-d5	35%	34%	33%	15-110%
118-79-6	2,4,6-Tribromophenol	110%	106%	103%	15-110%
4165-60-0	Nitrobenzene-d5	73%	72%	73%	30-130%
321-60-8	2-Fluorobiphenyl	78%	76%	77%	30-130%
1718-51-0	Terphenyl-d14	103%	100%	107%	30-130%

(a) High RPD due to possible matrix interference and/or sample non-homogeneity.
(b) Outside control limits due to possible matrix interference. Refer to Blank Spike.
(c) Outside control limits. Associated samples are non-detect for this compound.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27893
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36668-MS	I87123.D	1	01/30/14	KR	01/27/14	OP36668	MSI3240
OP36668-MSD	I87124.D	1	01/30/14	KR	01/27/14	OP36668	MSI3240
MC27800-2	I87125.D	1	01/30/14	KR	01/27/14	OP36668	MSI3240

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

MC27893-1, MC27893-2, MC27893-3

CAS No.	Compound	MC27800-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND		50	45.7	91	50	45.3	91	1	40-140/20
208-96-8	Acenaphthylene	ND		50	39.4	79	50	38.7	77	2	40-140/20
120-12-7	Anthracene	ND		50	45.3	91	50	44.5	89	2	40-140/20
56-55-3	Benzo(a)anthracene	ND		50	55.1	110	50	53.3	107	3	40-140/20
50-32-8	Benzo(a)pyrene	ND		50	51.7	103	50	50.4	101	3	40-140/20
205-99-2	Benzo(b)fluoranthene	ND		50	57.8	116	50	51.9	104	11	40-140/20
191-24-2	Benzo(g,h,i)perylene	ND		50	59.2	118	50	57.8	116	2	40-140/20
207-08-9	Benzo(k)fluoranthene	ND		50	52.0	104	50	55.1	110	6	40-140/20
218-01-9	Chrysene	ND		50	53.1	106	50	50.4	101	5	40-140/20
53-70-3	Dibenzo(a,h)anthracene	ND		50	59.9	120	50	58.9	118	2	40-140/20
206-44-0	Fluoranthene	ND		50	52.6	105	50	50.8	102	3	40-140/20
86-73-7	Fluorene	ND		50	45.7	91	50	45.5	91	0	40-140/20
193-39-5	Indeno(1,2,3-cd)pyrene	ND		50	59.7	119	50	58.2	116	3	40-140/20
90-12-0	1-Methylnaphthalene	0.050	J	50	40.9	82	50	39.2	78	4	40-140/20
91-57-6	2-Methylnaphthalene	ND		50	39.7	79	50	37.8	76	5	40-140/20
85-01-8	Phenanthrene	ND		50	46.6	93	50	45.9	92	2	40-140/20
129-00-0	Pyrene	ND		50	51.8	104	50	49.9	100	4	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC27800-2	Limits
4165-60-0	Nitrobenzene-d5	81%	81%	83%	30-130%
321-60-8	2-Fluorobiphenyl	71%	71%	69%	30-130%
1718-51-0	Terphenyl-d14	90%	87%	93%	30-130%

* = Outside of Control Limits.

Semivolatile Internal Standard Area Summary

Job Number: MC27893
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSI3240-CC3238	**Injection Date:**	01/30/14
Lab File ID:	I87117.D	**Injection Time:**	14:02
Instrument ID:	GCMSI	**Method:**	SW846 8270D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	388283	4.44	856468	5.50	465872	7.05	759195	8.48	455758	11.25	1184622	12.76
Upper Limit [a]	776566	4.94	1712936	6.00	931744	7.55	1518390	8.98	911516	11.75	2369244	13.26
Lower Limit [b]	194142	3.94	428234	5.00	232936	6.55	379598	7.98	227879	10.75	592311	12.26

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP36628-MB	360716	4.44	795698	5.50	425977	7.05	686167	8.48	403734	11.25	1044765	12.76
OP36628-BS	343336	4.44	765787	5.50	409563	7.05	663027	8.48	395144	11.25	1015610	12.76
OP36668-MB	351690	4.44	769672	5.50	413656	7.05	668838	8.48	391530	11.25	1028420	12.76
OP36668-BS	362288	4.44	808465	5.50	432769	7.05	692487	8.49	410740	11.25	1053565	12.76
OP36668-BSD	369943	4.44	809354	5.50	440057	7.05	707318	8.48	427274	11.25	1076615	12.76
OP36668-MS	359314	4.44	794285	5.50	435121	7.05	702157	8.48	414197	11.25	1061206	12.77
OP36668-MSD	362841	4.44	800248	5.50	428441	7.05	682348	8.48	414942	11.25	1049895	12.76
MC27800-2	357093	4.44	777752	5.50	423152	7.05	678764	8.48	405611	11.25	1041273	12.76
MC27893-1	365452	4.44	790351	5.50	427508	7.05	698511	8.48	421213	11.25	1082509	12.76
MC27893-2	378733	4.44	827365	5.50	444616	7.05	718434	8.48	425451	11.25	1069378	12.76
MC27893-3	414688	4.44	883396	5.50	484562	7.05	778997	8.48	464012	11.25	1169444	12.76
ZZZZZZ	354951	4.44	748031	5.50	412805	7.05	663874	8.48	405898	11.25	1043135	12.76
ZZZZZZ	377722	4.44	802212	5.50	442809	7.05	714182	8.48	441799	11.25	1111149	12.76
OP36628-MS	358090	4.44	792125	5.50	428180	7.05	682985	8.48	413722	11.25	1069979	12.76
OP36628-MSD	364910	4.44	815531	5.50	441766	7.05	702680	8.48	419112	11.25	1084330	12.76
MC27807-4	363527	4.44	789935	5.50	434375	7.05	695083	8.48	409651	11.25	1072099	12.76
ZZZZZZ	358430	4.44	794216	5.50	433852	7.05	700825	8.48	416699	11.25	1066937	12.76
ZZZZZZ	380367	4.44	834062	5.50	448195	7.05	720786	8.48	428290	11.25	1107315	12.76
ZZZZZZ	366122	4.44	809665	5.50	433880	7.05	699542	8.48	415334	11.25	1071945	12.76
ZZZZZZ	359726	4.44	787976	5.50	421113	7.05	675131	8.48	404283	11.25	1053475	12.76
ZZZZZZ	364478	4.44	798951	5.50	412929	7.05	688753	8.48	415567	11.25	1093622	12.76
ZZZZZZ	347855	4.44	761316	5.50	396908	7.05	658441	8.48	398009	11.25	1056145	12.76
ZZZZZZ	371723	4.44	814050	5.50	439030	7.05	701916	8.48	419478	11.25	1077383	12.76
ZZZZZZ	345725	4.44	761705	5.50	408125	7.05	654909	8.48	397671	11.25	1021809	12.76
ZZZZZZ	364938	4.44	797124	5.50	432516	7.05	700403	8.48	425506	11.25	1060102	12.76

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC27893
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSW766-CC729	**Injection Date:**	01/29/14
Lab File ID:	W17427.D	**Injection Time:**	07:28
Instrument ID:	GCMSW	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	58298	4.47	220682	5.54	150861	7.08	259343	8.38	266543	11.08	243310	12.86
Upper Limit [a]	116596	4.97	441364	6.04	301722	7.58	518686	8.88	533086	11.58	486620	13.36
Lower Limit [b]	29149	3.97	110341	5.04	75431	6.58	129672	7.88	133272	10.58	121655	12.36

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP36652-MB	60792	4.47	225349	5.53	151942	7.08	253325	8.37	253917	11.08	236094	12.85
OP36652-BS	60215	4.47	220576	5.54	147686	7.08	256663	8.37	250177	11.08	228918	12.85
OP36652-MS	58080	4.47	212484	5.54	140662	7.08	244104	8.37	239065	11.08	218464	12.85
OP36652-MSD	62695	4.47	232127	5.54	155212	7.08	262624	8.37	261207	11.08	241944	12.85
MC27500-23	63224	4.47	238070	5.54	158607	7.08	273509	8.37	268697	11.08	253727	12.85
OP36688-MB	67588	4.47	250359	5.53	167692	7.08	279360	8.37	266344	11.08	240893	12.85
OP36688-BS	71174	4.47	264933	5.54	174277	7.08	287753	8.38	272508	11.08	247611	12.85
ZZZZZZ	64927	4.47	235983	5.53	151710	7.08	253360	8.37	228584	11.08	201993	12.85
ZZZZZZ	58374	4.47	215792	5.53	143816	7.08	238029	8.37	240010	11.08	225891	12.85
ZZZZZZ	62062	4.47	228203	5.53	148291	7.08	248497	8.37	244505	11.08	232108	12.85
OP36679-MB	62128	4.47	229071	5.53	152600	7.08	259121	8.37	254909	11.08	241274	12.85
OP36679-BS	63196	4.47	233406	5.54	156001	7.08	263963	8.37	255257	11.08	242735	12.85
ZZZZZZ	65602	4.47	242036	5.53	161933	7.08	272438	8.37	267153	11.08	255143	12.85
ZZZZZZ	66056	4.47	244694	5.53	163229	7.08	270676	8.37	265338	11.08	249514	12.85
ZZZZZZ	62028	4.47	234468	5.53	154033	7.08	260005	8.37	267622	11.08	247047	12.85
OP36678-MB	59445	4.47	220292	5.53	144019	7.08	243236	8.37	237610	11.08	223925	12.85
OP36666-MB	59445	4.47	220292	5.53	144019	7.08	243236	8.37	237610	11.08	223925	12.85
OP36678-BS	61534	4.47	221397	5.54	146713	7.08	246662	8.37	244089	11.08	228575	12.85
OP36666-BS	61534	4.47	221397	5.54	146713	7.08	246662	8.37	244089	11.08	228575	12.85
OP36666-BSD	63939	4.47	233986	5.54	152659	7.08	263868	8.37	255904	11.08	240028	12.85
ZZZZZZ	62056	4.47	225175	5.53	147479	7.08	246231	8.37	247144	11.07	233285	12.85

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC27893
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSW767-CC729	**Injection Date:**	01/29/14
Lab File ID:	W17448.D	**Injection Time:**	16:08
Instrument ID:	GCMSW	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	66062	4.47	245912	5.54	162600	7.08	278995	8.38	284806	11.08	261481	12.85
Upper Limit [a]	132124	4.97	491824	6.04	325200	7.58	557990	8.88	569612	11.58	522962	13.35
Lower Limit [b]	33031	3.97	122956	5.04	81300	6.58	139498	7.88	142403	10.58	130741	12.35
Lab Sample ID	**IS 1 AREA**	**RT**	**IS 2 AREA**	**RT**	**IS 3 AREA**	**RT**	**IS 4 AREA**	**RT**	**IS 5 AREA**	**RT**	**IS 6 AREA**	**RT**
OP36679-MS	65959	4.47	245142	5.54	160762	7.08	274120	8.37	274013	11.08	253118	12.85
OP36679-MSD	66009	4.47	243481	5.54	161623	7.08	274090	8.37	267279	11.08	249726	12.85
MC27734-9	68517	4.47	252992	5.53	166445	7.08	282349	8.37	278175	11.07	260215	12.85
OP36664-MB	71621	4.47	270760	5.53	178078	7.08	295918	8.37	276583	11.07	248414	12.85
OP36664-BS	75571	4.47	283049	5.54	188074	7.08	308878	8.37	291734	11.08	257970	12.85
OP36664-BSD	77868	4.47	287057	5.54	186937	7.08	313644	8.37	290131	11.08	258269	12.85
OP36664-MS	72241	4.47	260362	5.54	164973	7.08	271004	8.37	236329	11.08	215513	12.85
OP36664-MSD	69796	4.47	253609	5.54	161429	7.08	265904	8.37	237761	11.08	213340	12.85
MC28000-18	76957	4.47	280849	5.53	178055	7.08	287149	8.37	250614	11.08	234318	12.85
ZZZZZZ	78524	4.47	286302	5.54	183046	7.08	297149	8.37	271671	11.07	247065	12.85
ZZZZZZ	69046	4.47	251240	5.53	162304	7.08	269339	8.37	259194	11.07	252005	12.85
ZZZZZZ	66762	4.47	246351	5.54	158358	7.08	260689	8.37	249207	11.08	242002	12.85
ZZZZZZ	65370	4.47	244725	5.54	160119	7.08	265665	8.37	258042	11.08	243480	12.85
OP36666-MS	61437	4.47	228422	5.54	151611	7.08	257282	8.38	248053	11.08	232680	12.85
OP36678-MS	61437	4.47	228422	5.54	151611	7.08	257282	8.38	248053	11.08	232680	12.85
OP36666-MSD	59839	4.47	224485	5.54	148038	7.08	251944	8.38	247995	11.08	231892	12.85
OP36678-MSD	59839	4.47	224485	5.54	148038	7.08	251944	8.38	247995	11.08	231892	12.85
MC27800-1	59774	4.47	224837	5.54	144851	7.08	250332	8.37	250021	11.08	233118	12.85
MC27800-7	59774	4.47	224837	5.54	144851	7.08	250332	8.37	250021	11.08	233118	12.85
MC27893-1	61309	4.47	220582	5.54	144993	7.08	244300	8.37	250957	11.08	237088	12.85
MC27893-2	61682	4.47	229777	5.54	152282	7.08	254749	8.37	256710	11.08	238733	12.85
MC27893-3	68798	4.47	252155	5.54	165472	7.08	270626	8.37	273490	11.08	260117	12.85
ZZZZZZ	65807	4.47	239332	5.54	158673	7.08	270003	8.37	276953	11.08	259544	12.85
ZZZZZZ	56694	4.47	210477	5.54	140988	7.08	237421	8.37	244379	11.08	223325	12.85
ZZZZZZ	64562	4.47	239902	5.54	157599	7.08	267479	8.37	266393	11.08	255235	12.85

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Surrogate Recovery Summary

Job Number: MC27893
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Method: SW846 8270D **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
MC27893-1	W17467.D	39	27	108	56	64	84
MC27893-2	W17468.D	44	31	105	67	71	80
MC27893-3	W17469.D	29	25	96	65	69	94
OP36666-BS	W17444.D	50	33	114* [a]	75	78	103
OP36666-BSD	W17445.D	50	33	109	73	78	101
OP36666-MB	W17443.D	49	33	105	72	76	100
OP36666-MS	W17464.D	50	35	110	73	78	103
OP36666-MSD	W17465.D	50	34	106	72	76	100

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	15-110%
S2 = Phenol-d5	15-110%
S3 = 2,4,6-Tribromophenol	15-110%
S4 = Nitrobenzene-d5	30-130%
S5 = 2-Fluorobiphenyl	30-130%
S6 = Terphenyl-d14	30-130%

(a) Outside control limits. Associated target analytes are non-detect.

Semivolatile Surrogate Recovery Summary

Job Number: MC27893
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Method: SW846 8270D BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC27893-1	I87126.D	66	60	76
MC27893-2	I87127.D	76	65	71
MC27893-3	I87128.D	75	64	84
OP36668-BS	I87121.D	83	73	91
OP36668-BSD	I87122.D	82	71	87
OP36668-MB	I87120.D	80	70	88
OP36668-MS	I87123.D	81	71	90
OP36668-MSD	I87124.D	81	71	87

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	30-130%
S2 = 2-Fluorobiphenyl	30-130%
S3 = Terphenyl-d14	30-130%

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries

Method Blank Summary

Job Number: MC27893
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36674-MB	BB54168.D	1	01/28/14	CZ	01/27/14	OP36674	GBB3162

The QC reported here applies to the following samples: **Method:** SW846 8011

MC27893-1, MC27893-2, MC27893-3, MC27893-5

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0054	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.011	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	Bromofluorobenzene (S)	76%	36-173%
460-00-4	Bromofluorobenzene (S)	67%	36-173%

Blank Spike Summary

Job Number: MC27893
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36674-BS	BB54169.D	1	01/28/14	CZ	01/27/14	OP36674	GBB3162

The QC reported here applies to the following samples: **Method:** SW846 8011

MC27893-1, MC27893-2, MC27893-3, MC27893-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
96-12-8	1,2-Dibromo-3-chloropropane	0.071	0.053	75	60-140
106-93-4	1,2-Dibromoethane	0.071	0.050	70	60-140

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	Bromofluorobenzene (S)	82%	36-173%
460-00-4	Bromofluorobenzene (S)	71%	36-173%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27893
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36674-MS	BB54170.D	1	01/28/14	CZ	01/27/14	OP36674	GBB3162
OP36674-MSD	BB54171.D	1	01/29/14	CZ	01/27/14	OP36674	GBB3162
MC27800-5	BB54172.D	1	01/29/14	CZ	01/27/14	OP36674	GBB3162

The QC reported here applies to the following samples: **Method:** SW846 8011

MC27893-1, MC27893-2, MC27893-3, MC27893-5

CAS No.	Compound	MC27800-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
96-12-8	1,2-Dibromo-3-chloropropane	ND		0.071	0.052	73	0.071	0.055	77	6	64-141/29
106-93-4	1,2-Dibromoethane	ND		0.071	0.046	65	0.071	0.049	69	6	63-163/27

CAS No.	Surrogate Recoveries	MS	MSD	MC27800-5	Limits
460-00-4	Bromofluorobenzene (S)	84%	83%	55%	36-173%
460-00-4	Bromofluorobenzene (S)	63%	65%	50%	36-173%

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: MC27893
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Method: SW846 8011 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]
MC27893-1	BB54180.D	89	64
MC27893-2	BB54181.D	78	66
MC27893-3	BB54182.D	81	73
MC27893-5	BB54183.D	78	68
OP36674-BS	BB54169.D	82	71
OP36674-MB	BB54168.D	76	67
OP36674-MS	BB54170.D	84	63
OP36674-MSD	BB54171.D	83	65

Surrogate Compounds	Recovery Limits
S1 = Bromofluorobenzene (S)	36-173%

(a) Recovery from GC signal #2
(b) Recovery from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC27893
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	GBB3162-ICC3162	**Injection Date:**	01/28/14
Lab File ID:	BB54163.D	**Injection Time:**	20:54
Instrument ID:	GCBB	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.92	4.14

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
ZZZZZZ	BB54166A.D	01/28/14	22:05	4.92	4.14
OP36674-MB	BB54168.D	01/28/14	22:54	4.91	4.14
OP36674-BS	BB54169.D	01/28/14	23:18	4.91	4.14
OP36674-MS	BB54170.D	01/28/14	23:43	4.91	4.14
OP36674-MSD	BB54171.D	01/29/14	00:07	4.91	4.14
MC27800-5	BB54172.D	01/29/14	00:31	4.91	4.14
ZZZZZZ	BB54173.D	01/29/14	00:55	4.90	4.14
ZZZZZZ	BB54174.D	01/29/14	01:20	4.91	4.14
ZZZZZZ	BB54175.D	01/29/14	01:44	4.90	4.14
ZZZZZZ	BB54176.D	01/29/14	02:08	4.90	4.14
ZZZZZZ	BB54177.D	01/29/14	02:32	4.90	4.14

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC27893
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	GBB3162-CC3162	**Injection Date:**	01/29/14
Lab File ID:	BB54178.D	**Injection Time:**	02:56
Instrument ID:	GCBB	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.90	4.14

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
ZZZZZZ	BB54179.D	01/29/14	03:20	4.90	4.14
MC27893-1	BB54180.D	01/29/14	03:45	4.89	4.14
MC27893-2	BB54181.D	01/29/14	04:09	4.91	4.14
MC27893-3	BB54182.D	01/29/14	04:33	4.90	4.14
MC27893-5	BB54183.D	01/29/14	04:57	4.92	4.14
GBB3162-ECC3162	BB54184.D	01/29/14	05:21	4.91	4.14

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

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Automated Report

Technical Report for

Shell Oil

URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana,



SGS Accutest Job Number: MC27954

Sampling Date: 01/28/14

Report to:

AECOM, INC.

Melissa.mansker@aecom.com

ATTN: Melissa Mansker

Total number of pages in report: 157

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

H. (Brad) Madadian
Lab Director

Client Service contact: Jeremy Vienneau 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO (MA00136) MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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Test results relate only to samples analyzed.

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SGS ACCUTEST

October 28, 2016

AECOM
1001 Highlands Plaza Drive West Suite 300
St. Louis, MO 63110

RE: SGS Accutest Job # MC27954

Dear Elizabeth Kunkel

As you are aware, SGS Accutest Inc. - Marlborough has been conducting an extensive review of data associated with some historical Gas Chromatography-Mass Spectroscopy volatiles analyses. As a result of this review it was determined that some revisions of the original test report for this job were needed. These corrections have been incorporated into the revised report.

Please be assured that corrective actions have been put in place to address this matter and prevent a recurrence.

We apologize for any inconvenience that this issue may have caused. Please don't hesitate to contact us if we can be of further assistance.

Sincerely,

H. (Brad) Madadian

Regional Laboratory Director
SGS Accutest Inc. - Marlborough

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.

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Sample Summary

Shell Oil

Job No: MC27954

URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC27954-1	01/28/14	10:35	DMMM	01/29/14	AQ	Ground Water	P93B-ROX-012814
MC27954-2	01/28/14	10:35	DMMM	01/29/14	AQ	Ground Water	P93B-ROX-012814-DUP
MC27954-3	01/28/14	16:25	DMMM	01/29/14	AQ	Ground Water	P114-ROX-012814
MC27954-4	01/28/14	00:00	DMMM	01/29/14	AQ	Trip Blank Water	TB-ROX-012814-HCL
MC27954-5	01/28/14	00:00	DMMM	01/29/14	AQ	Trip Blank Water	TB-ROX-012814-ST

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: She O **Job No** MC27954

Site: URSMOSTL:Roxana Q 4 GW/ 2 562973 0300 900 South Centra **Report Date** 0/28/20 6 7: 6:24 P

3 Samp e(s), 2 Tr p B ank(s) and 0 F e d B ank(s) were co ected on 0 /28/20 4 and were rece ved at SGS Accutest New Eng and on 0 /29/20 4 proper y preserved, at 0 3 Deg C and ntact These Samp es rece ved a job number of MC27954 A st ng of the Laboratory Samp e ID, C ent Samp e ID and dates of co ect on are presented n the Resu ts Summary Sect on of th s repo t - Ch orohexane, Benzeneth o , D benz(a,h)acr d ne, Indene and Qu no ne were searched n the brary search and reported on y f detect ons were found

Except as noted be ow, a method spec f ed ca brat ons and qua ty contro performance cr ter a were met for th s job For more nformat on, p ease refer to QC summary pages

Volatiles by GCMS By Method SW846 8260C

Matrix: AQ **Batch ID:** MSV 039

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC280 5-6MS, MC280 5-6MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a
- B ank Sp ke Recove y(s) for Ch oroethane, 2-Ch oroethy v ny ether, 2,2-D ch oropropane, D ch orod f uoromethane, Tr ch orof uoromethane are outs de contro m ts
- Matr x Sp ke Recovery(s) for Ch oroethane, 2,2-D ch oropropane, 2-Ch oroethy v ny ether, Acetone, D ch orod f uoromethane, Tr ch orof uoromethane are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference
- Matr x Sp ke Dup cate Recovery(s) for 2,2-D ch oropropane, Acetone, Ch oroethane, D ch orod f uoromethane, 2-Ch oroethy v ny ether are outs de contro m ts H gh RPD due to poss b e matr x nterference and/or samp e non-homogene ty
- RPD(s) for MSD for 2-Ch oroethy v ny ether are outs de contro m ts for samp e MC280 5-6MSD H gh RPD due to poss b e matr x nterference and/or samp e non-homogene ty
- MSV 039-BS for 2-Ch oroethy v ny ether: Outs de contro m ts Assoc ated samp es are non-detect for th s compound
- 2-Hexanone, Acetone, 2-Butanone (MEK): Cont nu ng Ca brat on outs de of acceptance cr ter a Samp e resu t may be b ased ow
- , , -Tr ch oroethane: Cont nu ng Ca brat on outs de of acceptance cr ter a Samp e resu t may be b ased h gh

Matrix: AQ **Batch ID:** MSV 042

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC28049-3MS, MC28049-3MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a
- B ank Sp ke Recove y(s) for 2-Ch oroethy v ny ether, 2,2-D ch oropropane are outs de contro m ts
- Matr x Sp ke Recovery(s) for Ch oroethane, 2,2-D ch oropropane, 2-Ch oroethy v ny ether, D ch orod f uoromethane, Methy Tert Buty Ether are outs de contro m ts Outs de contro m ts due to poss b e matr x nte ference
- Matr x Sp ke Dup cate Recovery(s) for 2,2-D ch oropropane, 2-Ch oroethy v ny ether are outs de contro m ts Probab e cause due to matr x nterference
- MSV 042-BS/BSD for 2-Ch oroethy v ny ether: Outs de contro m ts Assoc ated samp es are non-detect for th s compound
- D ch orod f uoromethane: Cont nu ng Ca brat on outs de of acceptance cr ter a Samp e resu t may be b ased ow

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP36696

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- A method b anks for th s batch meet method spec f c cr ter a
- Samp e(s) MC27977- MS, MC27977- MSD were used as the QC samp es nd cated
- Matr x Sp ke Recovery(s) for Benzo c Ac d, Hexach orocyc opentad ene are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference
- Matr x Sp ke Dup cate Recovery(s) for Hexach orocyc opentad ene, 3,3'-D ch orobenz d ne are outs de contro m ts H gh RPD due to poss b e matr x nterference and/or samp e non-homogene ty
- RPD(s) for MSD for 2,4-D n tropheno , 3,3'-D ch orobenz d ne, Benzo c Ac d are outs de contro m ts for samp e OP36696-MSD H gh RPD due to poss b e matr x nterference and/or samp e non-homogene ty

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP36697

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC27977- MS, MC27977- MSD were used as the QC samp es nd cated
- Samp e(s) MC27954- , MC27954-2, MC27954-3 have compound(s) reported w th a “B” qua f er, nd cat ng ana yte s found n the assoc ated method b ank

Volatiles by GC By Method SW846 8011

Matrix: AQ **Batch ID:** OP367 5

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC27977- MS, MC27977- MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a

SGS Accutest New Eng and ce t f es that a ana ys s were performed w th n method spec f cat on It s further recommended that th s report to be used n ts ent rety The Laborato y D rector for SGS Accutest New Eng and or ass gnee as ver f ed by the s gnature on the cover page has author zed the re ease of th s report(MC27954)

Summary of Hits

Job Number: MC27954
Account: Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL
Collected: 01/28/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC27954-1	P93B-ROX-012814					
Benzene		242000	500	450	ug/l	SW846 8260C
Phenol		74.0	5.5	0.56	ug/l	SW846 8270D
Di-n-butyl phthalate		0.45 J	5.5	0.43	ug/l	SW846 8270D
bis(2-Ethylhexyl)phthalate		0.72 J	2.2	0.54	ug/l	SW846 8270D
Phenanthrene		0.022 JB	0.055	0.014	ug/l	SW846 8270D BY SIM
MC27954-2	P93B-ROX-012814-DUP					
Benzene		293000	500	450	ug/l	SW846 8260C
Phenol		92.7	5.1	0.52	ug/l	SW846 8270D
Di-n-butyl phthalate		0.48 J	5.1	0.39	ug/l	SW846 8270D
bis(2-Ethylhexyl)phthalate		1.2 J	2.0	0.49	ug/l	SW846 8270D
Phenanthrene		0.024 JB	0.051	0.013	ug/l	SW846 8270D BY SIM
MC27954-3	P114-ROX-012814					
Acetone [a]		142	10	2.8	ug/l	SW846 8260C
Benzene		1.3	0.50	0.45	ug/l	SW846 8260C
Methyl Tert Butyl Ether		15.3	1.0	0.43	ug/l	SW846 8260C
bis(2-Ethylhexyl)phthalate		0.66 J	2.2	0.53	ug/l	SW846 8270D
Anthracene		0.11	0.11	0.10	ug/l	SW846 8270D BY SIM
Phenanthrene		0.15 B	0.054	0.014	ug/l	SW846 8270D BY SIM
MC27954-4	TB-ROX-012814-HCL					
No hits reported in this sample.						
MC27954-5	TB-ROX-012814-ST					
No hits reported in this sample.						

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	P93B-ROX-012814		
Lab Sample ID:	MC27954-1	**Date Sampled:**	01/28/14
Matrix:	AQ - Ground Water	**Date Received:**	01/29/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V27646.D	1000	02/05/14	AMY	n/a	n/a	MSV1042
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10000	2800	ug/l	
107-02-8	Acrolein	ND	25000	6300	ug/l	
107-13-1	Acrylonitrile	ND	5000	3500	ug/l	
71-43-2	Benzene	242000	500	450	ug/l	
108-86-1	Bromobenzene	ND	5000	440	ug/l	
74-97-5	Bromochloromethane	ND	5000	640	ug/l	
75-27-4	Bromodichloromethane	ND	1000	330	ug/l	
75-25-2	Bromoform	ND	1000	420	ug/l	
74-83-9	Bromomethane	ND	2000	1500	ug/l	
78-93-3	2-Butanone (MEK)	ND	5000	1600	ug/l	
104-51-8	n-Butylbenzene	ND	5000	540	ug/l	
135-98-8	sec-Butylbenzene	ND	5000	580	ug/l	
98-06-6	tert-Butylbenzene	ND	5000	870	ug/l	
75-15-0	Carbon disulfide	ND	5000	590	ug/l	
56-23-5	Carbon tetrachloride	ND	1000	620	ug/l	
108-90-7	Chlorobenzene	ND	1000	480	ug/l	
75-00-3	Chloroethane	ND	2000	840	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5000	1300	ug/l	
67-66-3	Chloroform	ND	1000	500	ug/l	
74-87-3	Chloromethane	ND	2000	1400	ug/l	
95-49-8	o-Chlorotoluene	ND	5000	550	ug/l	
106-43-4	p-Chlorotoluene	ND	5000	480	ug/l	
124-48-1	Dibromochloromethane	ND	1000	330	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1000	350	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1000	300	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1000	260	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	2000	1200	ug/l	
75-34-3	1,1-Dichloroethane	ND	1000	370	ug/l	
107-06-2	1,2-Dichloroethane	ND	1000	350	ug/l	
75-35-4	1,1-Dichloroethene	ND	1000	670	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1000	540	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1000	540	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93B-ROX-012814		
Lab Sample ID:	MC27954-1	**Date Sampled:**	01/28/14
Matrix:	AQ - Ground Water	**Date Received:**	01/29/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2000	450	ug/l	
142-28-9	1,3-Dichloropropane	ND	5000	970	ug/l	
594-20-7	2,2-Dichloropropane	ND	5000	1300	ug/l	
563-58-6	1,1-Dichloropropene	ND	5000	630	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	500	220	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	500	290	ug/l	
123-91-1	1,4-Dioxane	ND	25000	16000	ug/l	
97-63-2	Ethyl methacrylate	ND	5000	810	ug/l	
100-41-4	Ethylbenzene	ND	1000	380	ug/l	
87-68-3	Hexachlorobutadiene	ND	5000	1300	ug/l	
591-78-6	2-Hexanone	ND	5000	2300	ug/l	
98-82-8	Isopropylbenzene	ND	5000	640	ug/l	
99-87-6	p-Isopropyltoluene	ND	5000	550	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1000	430	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5000	1300	ug/l	
74-95-3	Methylene bromide	ND	5000	430	ug/l	
75-09-2	Methylene chloride	ND	2000	410	ug/l	
91-20-3	Naphthalene	ND	5000	790	ug/l	
103-65-1	n-Propylbenzene	ND	5000	590	ug/l	
100-42-5	Styrene	ND	5000	490	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1000	460	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	500	420	ug/l	
127-18-4	Tetrachloroethene	ND	1000	610	ug/l	
108-88-3	Toluene	ND	1000	460	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5000	760	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5000	450	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1000	940	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1000	490	ug/l	
79-01-6	Trichloroethene	ND	1000	450	ug/l	
75-69-4	Trichlorofluoromethane	ND	1000	610	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5000	700	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5000	470	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5000	1100	ug/l	
108-05-4	Vinyl Acetate	ND	5000	1300	ug/l	
75-01-4	Vinyl chloride	ND	1000	610	ug/l	
	m,p-Xylene	ND	1000	700	ug/l	
95-47-6	o-Xylene	ND	1000	410	ug/l	
1330-20-7	Xylene (total)	ND	1000	410	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93B-ROX-012814		
Lab Sample ID:	MC27954-1	**Date Sampled:**	01/28/14
Matrix:	AQ - Ground Water	**Date Received:**	01/29/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		70-130%
2037-26-5	Toluene-D8	97%		70-130%
460-00-4	4-Bromofluorobenzene	102%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93B-ROX-012814		
Lab Sample ID:	MC27954-1	**Date Sampled:**	01/28/14
Matrix:	AQ - Ground Water	**Date Received:**	01/29/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W17515.D	1	01/31/14	KR	01/29/14	OP36696	MSW769
Run #2							

	Initial Volume	Final Volume
Run #1	910 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	1.4	ug/l	
95-57-8	2-Chlorophenol	ND	5.5	0.42	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.54	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.36	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	1.3	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	1.3	ug/l	
95-48-7	2-Methylphenol	ND	11	1.4	ug/l	
	3&4-Methylphenol	ND	11	2.2	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.55	ug/l	
100-02-7	4-Nitrophenol	ND	22	0.64	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.4	ug/l	
108-95-2	Phenol	74.0	5.5	0.56	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.63	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.35	ug/l	
62-53-3	Aniline	ND	11	0.70	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.5	0.22	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.5	0.94	ug/l	
100-51-6	Benzyl Alcohol	ND	11	0.63	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.5	1.0	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.27	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.5	0.23	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.5	0.25	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.5	0.15	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.5	0.22	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.5	0.72	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.74	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.71	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.5	0.55	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.17	ug/l	
84-74-2	Di-n-butyl phthalate	0.45	5.5	0.43	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.5	0.48	ug/l	

ND = Not detected MDL = Method Detection Limit
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E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93B-ROX-012814		
Lab Sample ID:	MC27954-1	**Date Sampled:**	01/28/14
Matrix:	AQ - Ground Water	**Date Received:**	01/29/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.5	0.55	ug/l	
131-11-3	Dimethyl phthalate	ND	5.5	0.55	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	0.72	2.2	0.54	ug/l	J
118-74-1	Hexachlorobenzene	ND	5.5	0.33	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.7	ug/l	
67-72-1	Hexachloroethane	ND	5.5	0.48	ug/l	
78-59-1	Isophorone	ND	5.5	0.22	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.31	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.55	ug/l	
100-01-6	4-Nitroaniline	ND	11	4.8	ug/l	
98-95-3	Nitrobenzene	ND	5.5	0.27	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.5	0.55	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.5	0.89	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.5	0.59	ug/l	
110-86-1	Pyridine	ND	11	0.57	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	24%		15-110%
4165-62-2	Phenol-d5	20%		15-110%
118-79-6	2,4,6-Tribromophenol	58%		15-110%
4165-60-0	Nitrobenzene-d5	41%		30-130%
321-60-8	2-Fluorobiphenyl	33%		30-130%
1718-51-0	Terphenyl-d14	58%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
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E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93B-ROX-012814		
Lab Sample ID:	MC27954-1	**Date Sampled:**	01/28/14
Matrix:	AQ - Ground Water	**Date Received:**	01/29/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I87180.D	1	01/31/14	KR	01/29/14	OP36697	MSI3241
Run #2							

	Initial Volume	Final Volume
Run #1	910 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.11	0.076	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.054	ug/l	
120-12-7	Anthracene	ND	0.11	0.10	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.055	0.021	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.032	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.055	0.035	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.030	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.042	ug/l	
218-01-9	Chrysene	ND	0.11	0.026	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.035	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.045	ug/l	
86-73-7	Fluorene	ND	0.11	0.11	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.034	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.22	0.055	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.22	0.082	ug/l	
85-01-8	Phenanthrene	0.022	0.055	0.014	ug/l	JB
129-00-0	Pyrene	ND	0.11	0.042	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	45%		30-130%
321-60-8	2-Fluorobiphenyl	32%		30-130%
1718-51-0	Terphenyl-d14	57%		30-130%

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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93B-ROX-012814		
Lab Sample ID:	MC27954-1	**Date Sampled:**	01/28/14
Matrix:	AQ - Ground Water	**Date Received:**	01/29/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK34410.D	1	01/31/14	NK	01/30/14	OP36715	GBK1134
Run #2							

	Initial Volume	Final Volume
Run #1	35.6 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0053	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	86%		36-173%
460-00-4	Bromofluorobenzene (S)	84%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93B-ROX-012814-DUP		
Lab Sample ID:	MC27954-2	**Date Sampled:**	01/28/14
Matrix:	AQ - Ground Water	**Date Received:**	01/29/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V27576.D	1000	02/03/14	AMY	n/a	n/a	MSV1039
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	10000	2800	ug/l	
107-02-8	Acrolein	ND	25000	6300	ug/l	
107-13-1	Acrylonitrile	ND	5000	3500	ug/l	
71-43-2	Benzene	293000	500	450	ug/l	
108-86-1	Bromobenzene	ND	5000	440	ug/l	
74-97-5	Bromochloromethane	ND	5000	640	ug/l	
75-27-4	Bromodichloromethane	ND	1000	330	ug/l	
75-25-2	Bromoform	ND	1000	420	ug/l	
74-83-9	Bromomethane	ND	2000	1500	ug/l	
78-93-3	2-Butanone (MEK) [a]	ND	5000	1600	ug/l	
104-51-8	n-Butylbenzene	ND	5000	540	ug/l	
135-98-8	sec-Butylbenzene	ND	5000	580	ug/l	
98-06-6	tert-Butylbenzene	ND	5000	870	ug/l	
75-15-0	Carbon disulfide	ND	5000	590	ug/l	
56-23-5	Carbon tetrachloride	ND	1000	620	ug/l	
108-90-7	Chlorobenzene	ND	1000	480	ug/l	
75-00-3	Chloroethane	ND	2000	840	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5000	1300	ug/l	
67-66-3	Chloroform	ND	1000	500	ug/l	
74-87-3	Chloromethane	ND	2000	1400	ug/l	
95-49-8	o-Chlorotoluene	ND	5000	550	ug/l	
106-43-4	p-Chlorotoluene	ND	5000	480	ug/l	
124-48-1	Dibromochloromethane	ND	1000	330	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1000	350	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1000	300	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1000	260	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2000	1200	ug/l	
75-34-3	1,1-Dichloroethane	ND	1000	370	ug/l	
107-06-2	1,2-Dichloroethane	ND	1000	350	ug/l	
75-35-4	1,1-Dichloroethene	ND	1000	670	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1000	540	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1000	540	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93B-ROX-012814-DUP		
Lab Sample ID:	MC27954-2	**Date Sampled:**	01/28/14
Matrix:	AQ - Ground Water	**Date Received:**	01/29/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2000	450	ug/l	
142-28-9	1,3-Dichloropropane	ND	5000	970	ug/l	
594-20-7	2,2-Dichloropropane	ND	5000	1300	ug/l	
563-58-6	1,1-Dichloropropene	ND	5000	630	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	500	220	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	500	290	ug/l	
123-91-1	1,4-Dioxane	ND	25000	16000	ug/l	
97-63-2	Ethyl methacrylate	ND	5000	810	ug/l	
100-41-4	Ethylbenzene	ND	1000	380	ug/l	
87-68-3	Hexachlorobutadiene	ND	5000	1300	ug/l	
591-78-6	2-Hexanone [b]	ND	5000	2300	ug/l	
98-82-8	Isopropylbenzene	ND	5000	640	ug/l	
99-87-6	p-Isopropyltoluene	ND	5000	550	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1000	430	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5000	1300	ug/l	
74-95-3	Methylene bromide	ND	5000	430	ug/l	
75-09-2	Methylene chloride	ND	2000	410	ug/l	
91-20-3	Naphthalene	ND	5000	790	ug/l	
103-65-1	n-Propylbenzene	ND	5000	590	ug/l	
100-42-5	Styrene	ND	5000	490	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1000	460	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	500	420	ug/l	
127-18-4	Tetrachloroethene	ND	1000	610	ug/l	
108-88-3	Toluene	ND	1000	460	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5000	760	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5000	450	ug/l	
71-55-6	1,1,1-Trichloroethane [c]	ND	1000	940	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1000	490	ug/l	
79-01-6	Trichloroethene	ND	1000	450	ug/l	
75-69-4	Trichlorofluoromethane	ND	1000	610	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5000	700	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5000	470	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5000	1100	ug/l	
108-05-4	Vinyl Acetate	ND	5000	1300	ug/l	
75-01-4	Vinyl chloride	ND	1000	610	ug/l	
	m,p-Xylene	ND	1000	700	ug/l	
95-47-6	o-Xylene	ND	1000	410	ug/l	
1330-20-7	Xylene (total)	ND	1000	410	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93B-ROX-012814-DUP		
Lab Sample ID:	MC27954-2	**Date Sampled:**	01/28/14
Matrix:	AQ - Ground Water	**Date Received:**	01/29/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		70-130%
2037-26-5	Toluene-D8	97%		70-130%
460-00-4	4-Bromofluorobenzene	105%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.
(b) Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.
(c) Continuing Calibration outside of acceptance criteria. Sample result may be biased high.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93B-ROX-012814-DUP		
Lab Sample ID:	MC27954-2	**Date Sampled:**	01/28/14
Matrix:	AQ - Ground Water	**Date Received:**	01/29/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W17516.D	1	01/31/14	KR	01/29/14	OP36696	MSW769
Run #2							

	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.1	0.39	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.50	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.33	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	ND	10	1.3	ug/l	
	3&4-Methylphenol	ND	10	2.1	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.51	ug/l	
100-02-7	4-Nitrophenol	ND	20	0.59	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	92.7	5.1	0.52	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.58	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.32	ug/l	
62-53-3	Aniline	ND	10	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.1	0.21	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.1	0.86	ug/l	
100-51-6	Benzyl Alcohol	ND	10	0.58	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.1	0.93	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.25	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.1	0.21	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.1	0.23	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.1	0.14	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.1	0.20	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.1	0.66	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.68	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.65	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.1	0.51	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	0.48	5.1	0.39	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.1	0.44	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93B-ROX-012814-DUP		
Lab Sample ID:	MC27954-2	**Date Sampled:**	01/28/14
Matrix:	AQ - Ground Water	**Date Received:**	01/29/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.1	0.51	ug/l	
131-11-3	Dimethyl phthalate	ND	5.1	0.51	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	1.2	2.0	0.49	ug/l	J
118-74-1	Hexachlorobenzene	ND	5.1	0.30	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.5	ug/l	
67-72-1	Hexachloroethane	ND	5.1	0.44	ug/l	
78-59-1	Isophorone	ND	5.1	0.20	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.51	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.4	ug/l	
98-95-3	Nitrobenzene	ND	5.1	0.25	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.1	0.51	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.1	0.82	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.1	0.55	ug/l	
110-86-1	Pyridine	ND	10	0.52	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	44%		15-110%
4165-62-2	Phenol-d5	33%		15-110%
118-79-6	2,4,6-Tribromophenol	87%		15-110%
4165-60-0	Nitrobenzene-d5	75%		30-130%
321-60-8	2-Fluorobiphenyl	53%		30-130%
1718-51-0	Terphenyl-d14	88%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
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E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93B-ROX-012814-DUP		
Lab Sample ID:	MC27954-2	**Date Sampled:**	01/28/14
Matrix:	AQ - Ground Water	**Date Received:**	01/29/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I87181.D	1	01/31/14	KR	01/29/14	OP36697	MSI3241
Run #2							

	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.070	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.050	ug/l	
120-12-7	Anthracene	ND	0.10	0.093	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.051	0.020	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.029	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.051	0.032	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.027	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.039	ug/l	
218-01-9	Chrysene	ND	0.10	0.024	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.032	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.041	ug/l	
86-73-7	Fluorene	ND	0.10	0.10	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.031	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.20	0.050	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.20	0.075	ug/l	
85-01-8	Phenanthrene	0.024	0.051	0.013	ug/l	JB
129-00-0	Pyrene	ND	0.10	0.039	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	78%		30-130%
321-60-8	2-Fluorobiphenyl	50%		30-130%
1718-51-0	Terphenyl-d14	82%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93B-ROX-012814-DUP		
Lab Sample ID:	MC27954-2	**Date Sampled:**	01/28/14
Matrix:	AQ - Ground Water	**Date Received:**	01/29/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK34411.D	1	01/31/14	NK	01/30/14	OP36715	GBK1134
Run #2							

	Initial Volume	Final Volume
Run #1	36.0 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0053	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	86%		36-173%
460-00-4	Bromofluorobenzene (S)	81%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P114-ROX-012814		
Lab Sample ID:	MC27954-3	**Date Sampled:**	01/28/14
Matrix:	AQ - Ground Water	**Date Received:**	01/29/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V27572.D	1	02/03/14	AMY	n/a	n/a	MSV1039
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	142	10	2.8	ug/l	
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	1.3	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK) [a]	ND	5.0	1.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P114-ROX-012814		
Lab Sample ID:	MC27954-3	**Date Sampled:**	01/28/14
Matrix:	AQ - Ground Water	**Date Received:**	01/29/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
123-91-1	1,4-Dioxane	ND	25	16	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone [b]	ND	5.0	2.3	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	15.3	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane [c]	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.70	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P114-ROX-012814		
Lab Sample ID:	MC27954-3	**Date Sampled:**	01/28/14
Matrix:	AQ - Ground Water	**Date Received:**	01/29/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		70-130%
2037-26-5	Toluene-D8	100%		70-130%
460-00-4	4-Bromofluorobenzene	109%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.
(b) Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.
(c) Continuing Calibration outside of acceptance criteria. Sample result may be biased high.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P114-ROX-012814		
Lab Sample ID:	MC27954-3	**Date Sampled:**	01/28/14
Matrix:	AQ - Ground Water	**Date Received:**	01/29/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W17517.D	1	01/31/14	KR	01/29/14	OP36696	MSW769
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	1.4	ug/l	
95-57-8	2-Chlorophenol	ND	5.4	0.42	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.53	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.36	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	1.3	ug/l	
95-48-7	2-Methylphenol	ND	11	1.4	ug/l	
	3&4-Methylphenol	ND	11	2.2	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.54	ug/l	
100-02-7	4-Nitrophenol	ND	22	0.63	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.4	ug/l	
108-95-2	Phenol	ND	5.4	0.56	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.62	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.34	ug/l	
62-53-3	Aniline	ND	11	0.69	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.4	0.22	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.4	0.93	ug/l	
100-51-6	Benzyl Alcohol	ND	11	0.62	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.4	1.0	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.27	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.4	0.23	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.4	0.25	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.4	0.15	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.4	0.22	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.4	0.71	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.73	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.70	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.4	0.54	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.17	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.4	0.42	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.4	0.47	ug/l	

ND = Not detected MDL = Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P114-ROX-012814		
Lab Sample ID:	MC27954-3	**Date Sampled:**	01/28/14
Matrix:	AQ - Ground Water	**Date Received:**	01/29/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.4	0.54	ug/l	
131-11-3	Dimethyl phthalate	ND	5.4	0.54	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	0.66	2.2	0.53	ug/l	J
118-74-1	Hexachlorobenzene	ND	5.4	0.32	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.7	ug/l	
67-72-1	Hexachloroethane	ND	5.4	0.48	ug/l	
78-59-1	Isophorone	ND	5.4	0.22	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.30	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.54	ug/l	
100-01-6	4-Nitroaniline	ND	11	4.7	ug/l	
98-95-3	Nitrobenzene	ND	5.4	0.27	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.4	0.54	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.4	0.88	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.4	0.59	ug/l	
110-86-1	Pyridine	ND	11	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	47%		15-110%
4165-62-2	Phenol-d5	35%		15-110%
118-79-6	2,4,6-Tribromophenol	88%		15-110%
4165-60-0	Nitrobenzene-d5	69%		30-130%
321-60-8	2-Fluorobiphenyl	53%		30-130%
1718-51-0	Terphenyl-d14	82%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P114-ROX-012814		
Lab Sample ID:	MC27954-3	**Date Sampled:**	01/28/14
Matrix:	AQ - Ground Water	**Date Received:**	01/29/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I87182.D	1	01/31/14	KR	01/29/14	OP36697	MSI3241
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.11	0.075	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.054	ug/l	
120-12-7	Anthracene	0.11	0.11	0.10	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.054	0.021	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.031	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.054	0.034	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.029	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.042	ug/l	
218-01-9	Chrysene	ND	0.11	0.026	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.035	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.044	ug/l	
86-73-7	Fluorene	ND	0.11	0.11	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.033	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.22	0.054	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.22	0.081	ug/l	
85-01-8	Phenanthrene	0.15	0.054	0.014	ug/l	B
129-00-0	Pyrene	ND	0.11	0.042	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	71%		30-130%
321-60-8	2-Fluorobiphenyl	51%		30-130%
1718-51-0	Terphenyl-d14	77%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P114-ROX-012814		
Lab Sample ID:	MC27954-3	**Date Sampled:**	01/28/14
Matrix:	AQ - Ground Water	**Date Received:**	01/29/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK34412.D	1	01/31/14	NK	01/30/14	OP36715	GBK1134
Run #2							

	Initial Volume	Final Volume
Run #1	35.7 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0053	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	86%		36-173%
460-00-4	Bromofluorobenzene (S)	37%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-012814-HCL		
Lab Sample ID:	MC27954-4	**Date Sampled:**	01/28/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/29/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V27557.D	1	02/03/14	AMY	n/a	n/a	MSV1039
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	10	2.8	ug/l	
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK) [a]	ND	5.0	1.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-012814-HCL		
Lab Sample ID:	MC27954-4	**Date Sampled:**	01/28/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/29/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
123-91-1	1,4-Dioxane	ND	25	16	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone [b]	ND	5.0	2.3	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane [c]	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.70	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-012814-HCL		
Lab Sample ID:	MC27954-4	**Date Sampled:**	01/28/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/29/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		70-130%
2037-26-5	Toluene-D8	100%		70-130%
460-00-4	4-Bromofluorobenzene	105%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.
(b) Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.
(c) Continuing Calibration outside of acceptance criteria. Sample result may be biased high.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-012814-ST		
Lab Sample ID:	MC27954-5	**Date Sampled:**	01/28/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/29/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK34413.D	1	01/31/14	NK	01/30/14	OP36715	GBK1134
Run #2							

	Initial Volume	Final Volume
Run #1	35.6 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0053	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	80%		36-173%
460-00-4	Bromofluorobenzene (S)	63%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

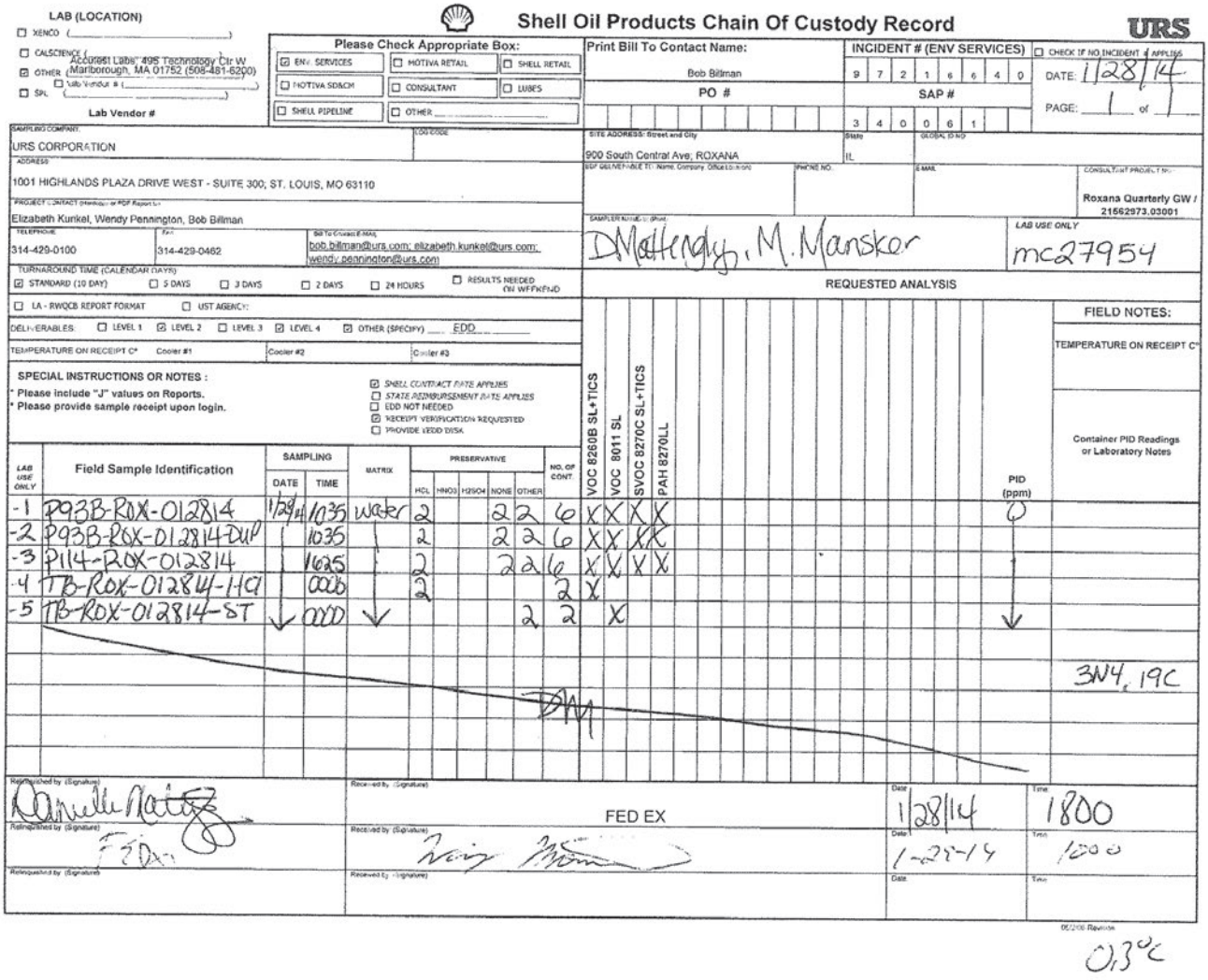
Includes the following where applicable:

- Chain of Custody
- REPROC Form: Reprocessed/Corrected Data
- Sample Tracking Chronicle
- Internal Chain of Custody

LAB (LOCATION)

☐ XENCO (_____)
☐ CALSCIENCE (_____)
☑ OTHER (Accutest Labs, 495 Technology Ctr W Marlborough, MA 01752 (508-481-6200))
☐ Lab Vendor # (_____)
☐ SPL (_____)

Lab Vendor #



Shell Oil Products Chain Of Custody Record

URS

Please Check Appropriate Box:

☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SDB/CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER _____

Print Bill To Contact Name: Bob Billman

PO #

INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0

SAP #: 3 4 0 0 6 1

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 1/28/14

PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION

LOG CODE:

SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA

State: IL

GLOBAL ID NO:

ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110

EDF DELIVERABLE TO: Name, Company, Office Location

PHONE NO.

E-MAIL

CONSULTANT PROJECT NO.: Roxana Quarterly GW / 21562973.03001

PROJECT CONTACT (Hardcopy or PDF Report to): Elizabeth Kunkel, Wendy Pennington, Bob Billman

TELEPHONE: 314-429-0100

FAX: 314-429-0462

Bill To Contact E-MAIL: bob.billman@urs.com; elizabeth.kunkel@urs.com; wendy.pennington@urs.com

SAMPLER NAME(S) (Print): D Mattingly, M. Mansker

LAB USE ONLY: mc27954

TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (10 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☑ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☑ OTHER (SPECIFY) EDD

TEMPERATURE ON RECEIPT C°: Cooler #1 Cooler #2 Cooler #3

SPECIAL INSTRUCTIONS OR NOTES:
* Please include "J" values on Reports.
* Please provide sample receipt upon login.

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE VEDD DISK

REQUESTED ANALYSIS

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8260B SL+TICS	VOC 8011 SL	SVOC 8270C SL+TICS	PAH 8270LL	PID (ppm)	Container PID Readings or Laboratory Notes
-1	P93B-ROX-012814	1/28/14	1035	water	2			2	2	6	X	X	X	X	0	
-2	P93B-ROX-012814-DUP	↓	1035	↓	2			2	2	6	X	X	X	X	↓	
-3	P114-ROX-012814	↓	1625	↓	2			2	2	6	X	X	X	X	↓	
-4	TB-ROX-012814-HCl	↓	0000	↓	2					2	X				↓	
-5	TB-ROX-012814-ST	↓	0000	↓					2	2		X			↓	
																3N4, 19C

DM

Relinquished by (Signature)	Received by (Signature)	Date	Time
Danielle Mattingly	FED EX	1/28/14	1800
FEDEX	[signature]	1-28-14	1000

05/2/06 Revision

0.3°C

MC27954: Chain of Custody
Page 1 of 2

5.1 5

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SGS ACCUTEST MC27954

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC27954 **Client:** URS **Immediate Client Services Action Required:** No

Date / Time Received: 1/29/2014 **Delivery Method:** **Client Service Action Required at Login:** No

Project: 900 SOUTH CENTRAL **No. Coolers:** 1 **Airbill #'s:**

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Infared gun		
3. Cooler media:	Ice (bag)		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

Marlborough, MA
www/accutest.com

MC27954: Chain of Custody
Page 2 of 2

Job Number: MC27954 **Sample:** MSV1019-ICC1019
Account: SHELLWIC Shell Oil **Lab FileID:** V26938.D
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL


```
                        Response Factor Report  MSV

 Method       : O:\msv\1\methods\v140107wx.m (RTE Integrator)
 Title        : SW-846 Method 8260
 Last Update  : Mon Oct 12 12:03:49 2015
 Response via : Initial Calibration

 Calibration Files
 0.25=v26932.d    0.5 =v26933.d    1   =v26934.d    2   =v26935.d
 5   =v26936.d    10  =v26937.d    50  =v26938.d    100 =v26939.d
 200 =v26940.d    400 =v26942.d        =                =

 Compound
             0.25  0.5   1     2     5     10    50    100   200   400    Avg    %RSD
 ------------------------------------------------------------------------------

 1) I   tert butyl alcohol-d9 -----------------ISTD----------------------
 2)  Ethanol
                             0.166 0.141 0.140 0.070 0.095 0.070 0.077  0.108   36.81
            ---- Linear regression ----  Coefficient =  0.9924
              Response Ratio = 0.07206 + 0.07518 *A


 3) I   pentafluorobenzene    -----------------ISTD----------------------
 4)  chloroethane
                        0.708 0.546 0.470 0.438 0.407 0.399 0.368 0.311  0.456   27.04
            ---- Linear regression ----  Coefficient =  0.9911
              Response Ratio = 0.00673 + 0.37855 *A

-------------------------------------------------------------------------------
(#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          v140107wx.m        Mon Oct 12 12:04:54 2015
```

Initial Calibration Verification

Job Number: MC27954 **Sample:** MSV1019-ICV1019
Account: SHELLWIC Shell Oil **Lab FileID:** V26944.D
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Evaluate Continuing Calibration Report

Data File : O:\msv\1\databackup\v140107\v26944.d Vial: 22
Acq On : 7 Jan 2014 7:05 pm Operator: amym
Sample : icv1019-50 Inst : MSV
Misc : MS30921,MSV1019,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : O:\msv\1\methods\v140107wx.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Oct 12 12:03:49 2015
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	tert butyl alcohol-d9	1.000	1.000	0.0	110	-0.01	3.51
		Amount	Calc.	%Drift			
2 p	Ethanol	5000.000	6281.655	-25.6#	160	0.01	2.50
		AvgRF	CCRF	%Dev			
3 I	pentafluorobenzene	1.000	1.000	0.0	113	0.00	6.55
		Amount	Calc.	%Drift			
4 p	chloroethane	50.000	55.636	-11.3	119	0.00	2.15

(#) = Out of Range SPCC's out = 0 CCC's out = 0
v26938.d v140107wx.m Mon Oct 12 12:05:26 2015

Continuing Calibration Summary

Job Number: MC27954 **Sample:** MSV1039-CC1019
Account: SHELLWIC Shell Oil **Lab FileID:** V27553.D
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Evaluate Continuing Calibration Report

Data File : O:\msv\1\databackup\v140203\v27553.d Vial: 3
Acq On : 3 Feb 2014 9:09 am Operator: amym
Sample : cc1019-50 Inst : MSV
Misc : MS31064,MSV1039,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : O:\msv\1\methods\v140107wx.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Oct 12 12:03:49 2015
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	tert butyl alcohol-d9	1.000	1.000	0.0	75	-0.02	3.50
		Amount	Calc.	%Drift			
2 p	Ethanol	5000.000	7230.481	-44.6#	125	0.00	2.49
		AvgRF	CCRF	%Dev			
3 I	pentafluorobenzene	1.000	1.000	0.0	71	-0.01	6.55
		Amount	Calc.	%Drift			
4 p	chloroethane	50.000	68.356	-36.7#	92	-0.02	2.14

(#) = Out of Range SPCC's out = 0 CCC's out = 0
v26938.d v140107wx.m Thu Nov 19 14:16:59 2015

Continuing Calibration Summary

Job Number: MC27954 **Sample:** MSV1042-CC1019
Account: SHELLWIC Shell Oil **Lab FileID:** V27637.D
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Evaluate Continuing Calibration Report

Data File : O:\msv\1\databackup\v140205\v27637.d Vial: 2
Acq On : 5 Feb 2014 9:23 am Operator: amym
Sample : cc1019-50 Inst : MSV
Misc : MS31082,MSV1042,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : O:\msv\1\methods\v140107wx.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Oct 12 12:03:49 2015
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	tert butyl alcohol-d9	1.000	1.000	0.0	111	0.00	3.53
		Amount	Calc.	%Drift			
2 p	Ethanol	5000.000	6094.211	-21.9#	157	0.03	2.52
		AvgRF	CCRF	%Dev			
3 I	pentafluorobenzene	1.000	1.000	0.0	88	0.00	6.57
		Amount	Calc.	%Drift			
4 p	chloroethane	50.000	52.614	-5.2	88	0.01	2.17

(#) = Out of Range SPCC's out = 0 CCC's out = 0
v26938.d v140107wx.m Thu Nov 19 21:15:09 2015

Data Path : O:\msv\1\databackup\v140107\
Data File : v26932.d
Acq On : 7 Jan 2014 12:30 pm
Operator : amym
Sample : ic1019-0.25
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 12 11:50:29 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

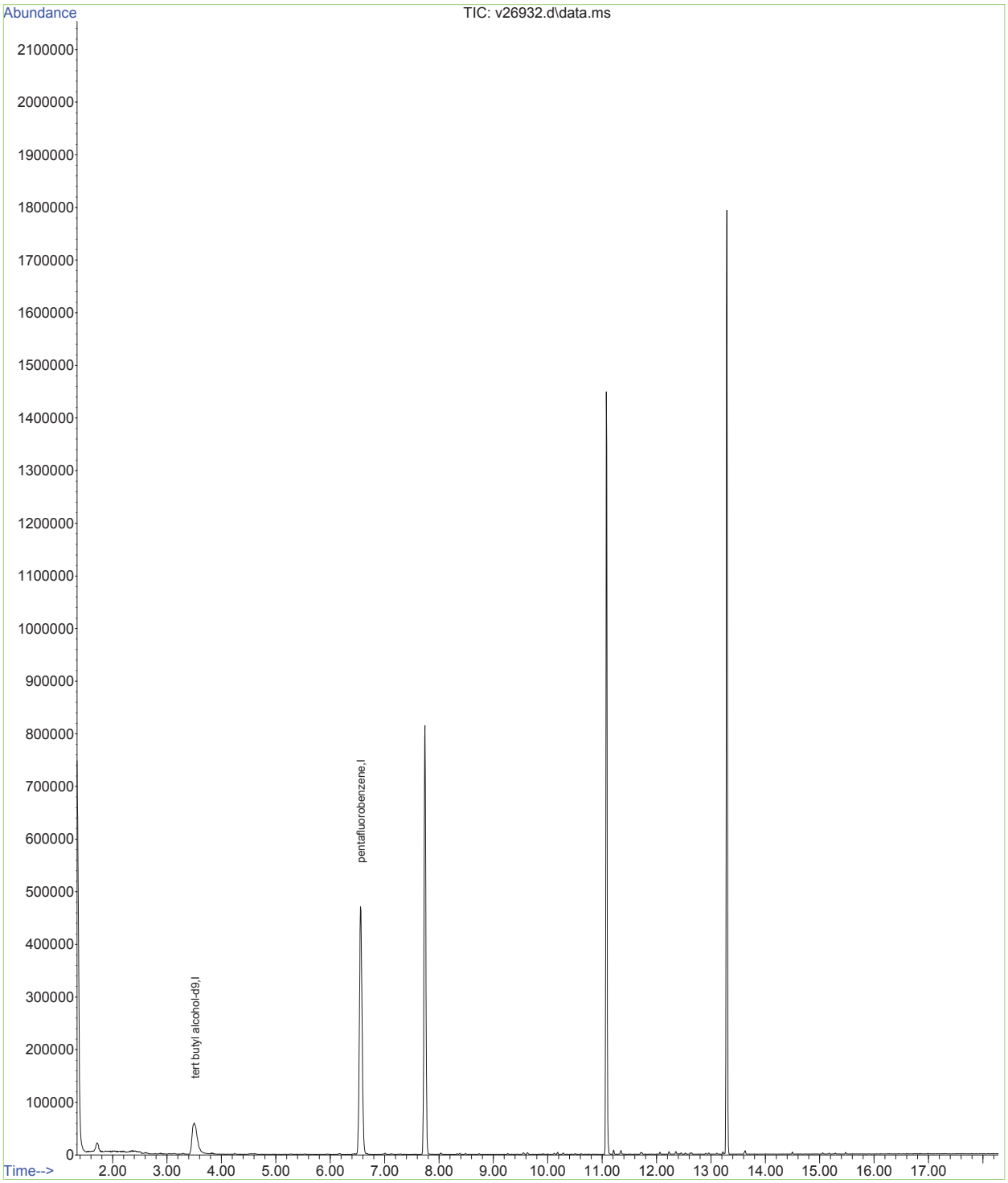
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.522	65	168440	500.00	ug/L	0.00
3) pentafluorobenzene	6.564	168	534929	50.00	ug/L	0.00

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msv\1\databackup\v140107\
Data File : v26932.d
Acq On : 7 Jan 2014 12:30 pm
Operator : amym
Sample : ic1019-0.25
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 12 11:50:29 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26933.d
Acq On : 7 Jan 2014 12:56 pm
Operator : amym
Sample : ic1019-0.5
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 12 11:50:59 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

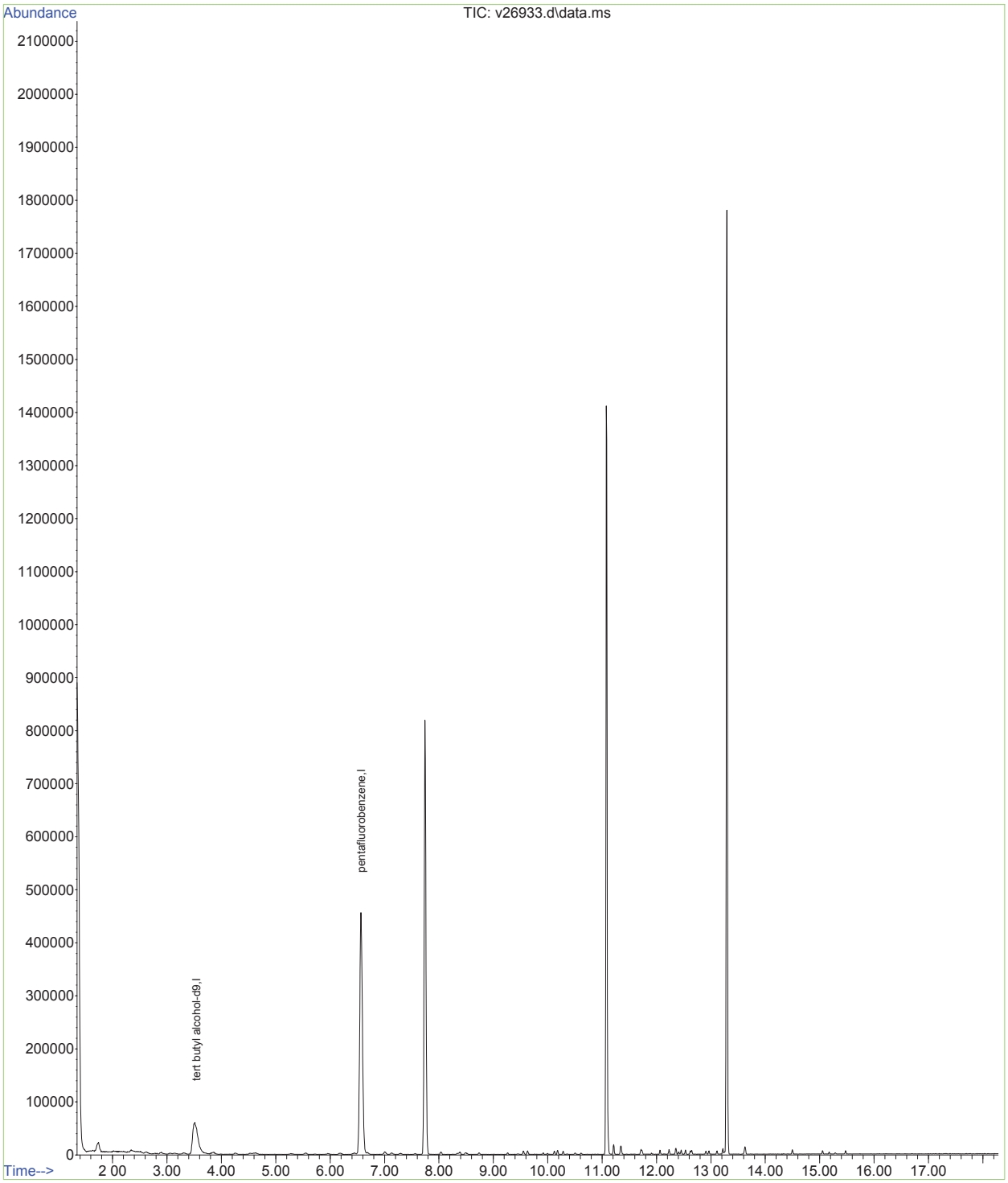
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.537	65	168993	500.00	ug/L	0.01
3) pentafluorobenzene	6.570	168	523768	50.00	ug/L	0.01

Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msv\1\databackup\v140107\
Data File : v26933.d
Acq On : 7 Jan 2014 12:56 pm
Operator : amym
Sample : ic1019-0.5
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 12 11:50:59 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26934.d
Acq On : 7 Jan 2014 1:22 pm
Operator : amym
Sample : ic1019-1
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

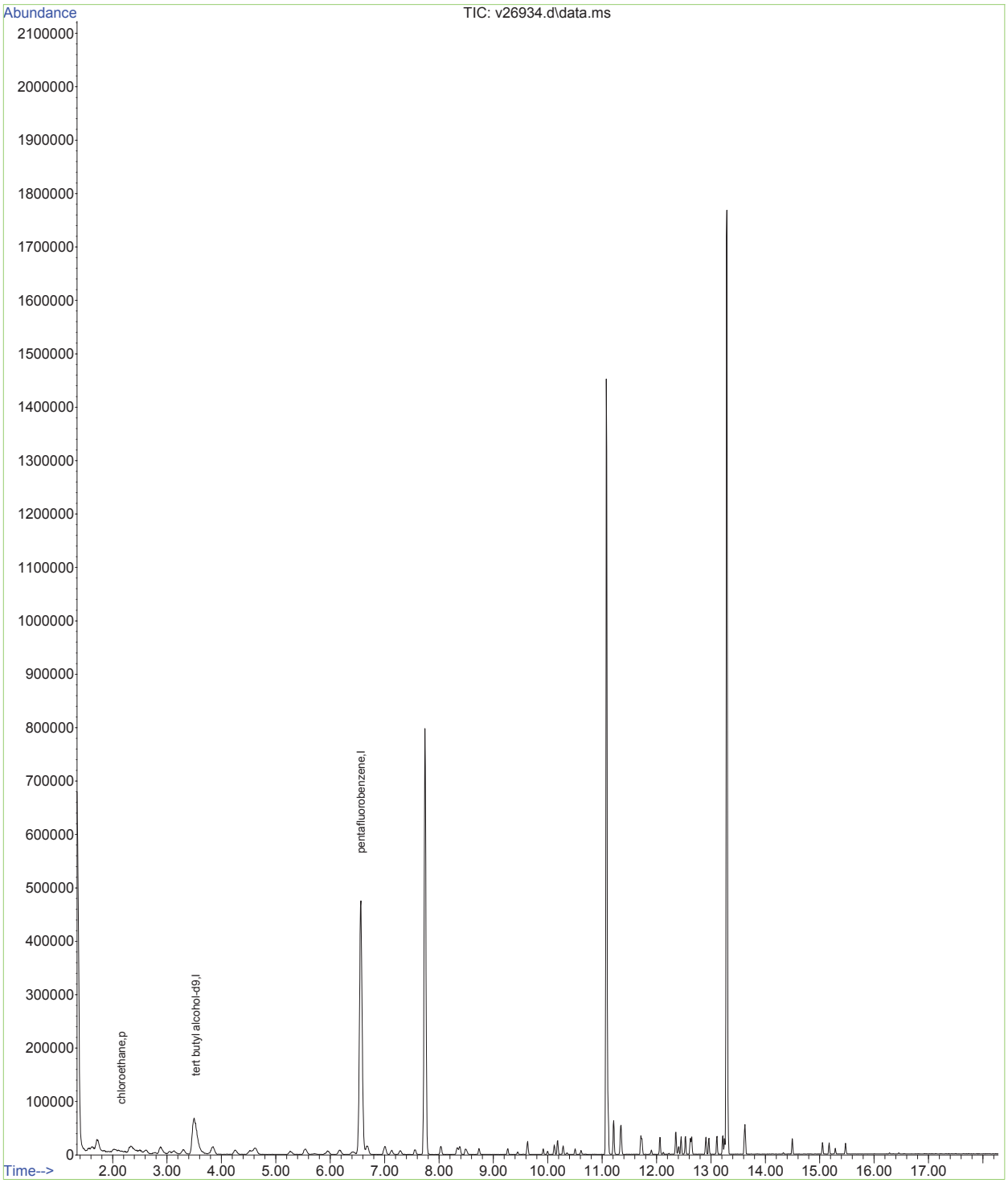
Quant Time: Oct 12 11:52:02 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.527	65	169438	500.00	ug/L	0.00
3) pentafluorobenzene	6.565	168	527887	50.00	ug/L	0.00
Target Compounds						Qvalue
4) chloroethane	2.159	64	7471m	1.74	ug/L	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

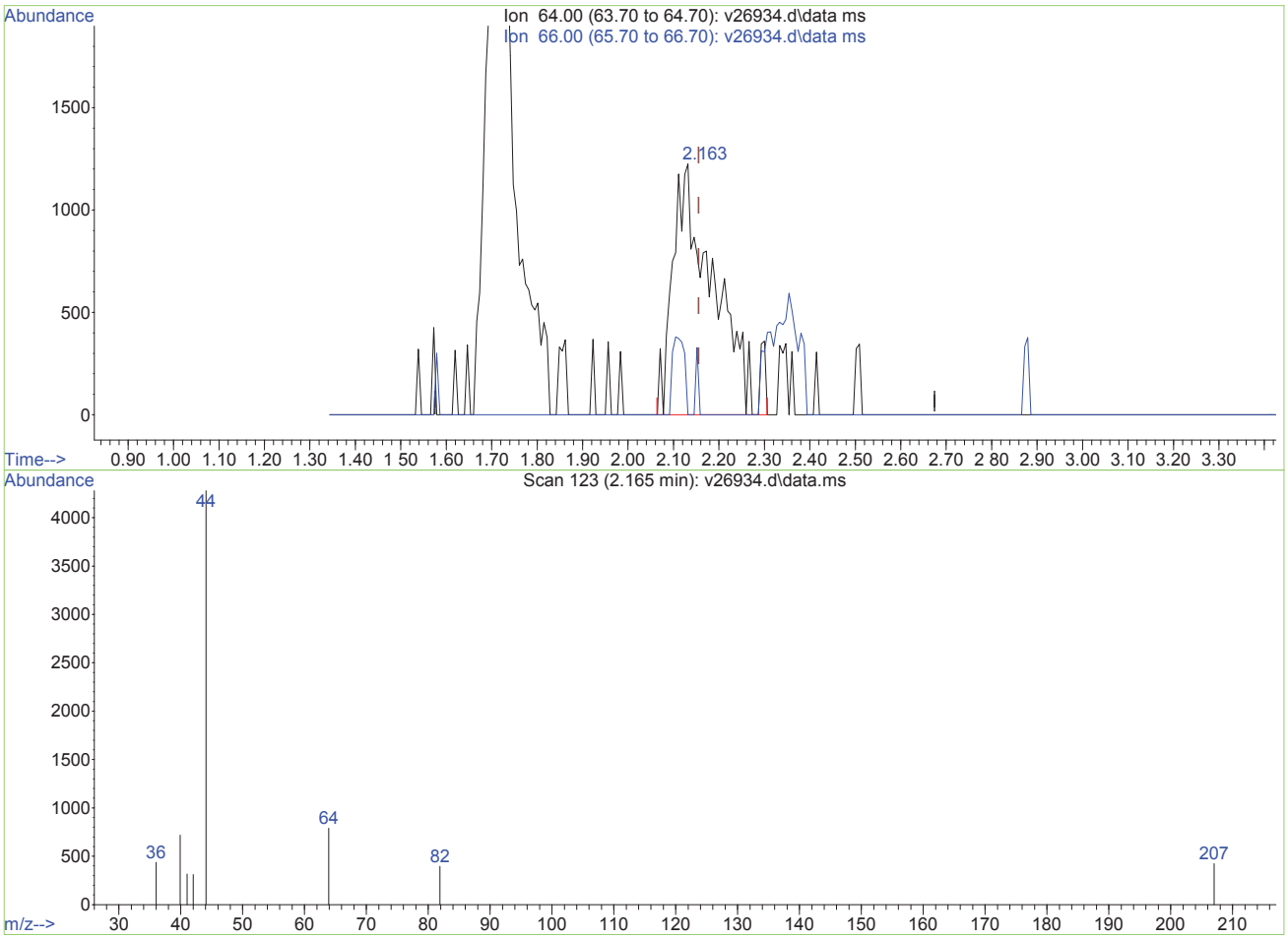
Data Path : O:\msv\1\databackup\v140107\
Data File : v26934.d
Acq On : 7 Jan 2014 1:22 pm
Operator : amym
Sample : ic1019-1
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 12 11:52:02 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Data Path : O:\msv\1\databackup\v140107\
Data File : v26934.d
Acq On : 7 Jan 2014 1:22 pm
Operator : amym
Sample : ic1019-1
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 12 11:49:53 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26934.d\data.ms

(4) chloroethane (p)

2.163min (+0.008) 1.81ug/L

response 7756

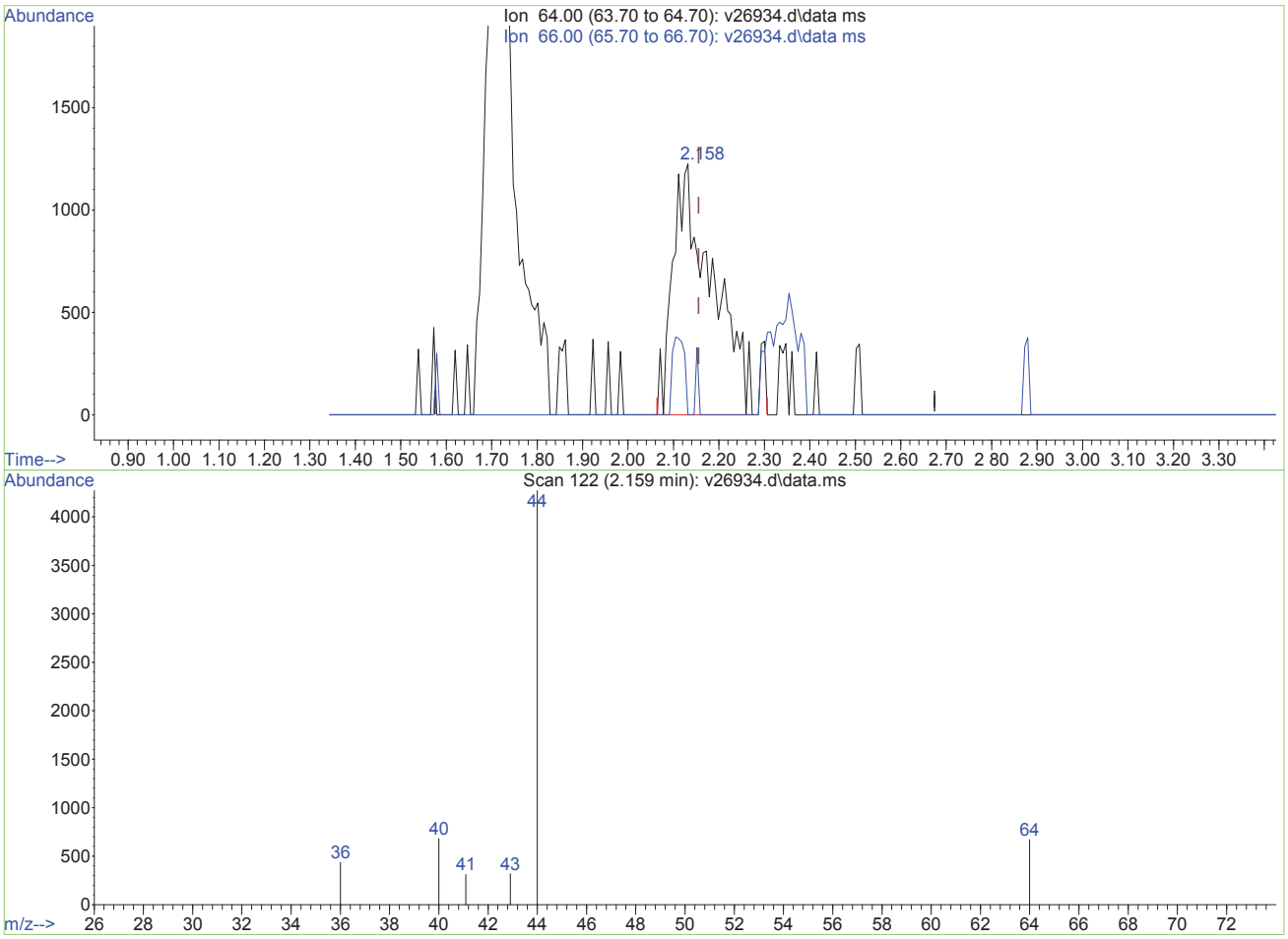
Ion	Exp%	Act%
64.00	100	100
66.00	34.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26934.D edits: chloroethane

SGS ACCUTEST MC27954

Data Path : O:\msv\1\databackup\v140107\
Data File : v26934.d
Acq On : 7 Jan 2014 1:22 pm
Operator : amym
Sample : ic1019-1
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 12 11:49:53 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26934.d\data.ms

(4) chloroethane (p)

2.159min (+0.003) 1.74ug/L m

response 7471

Ion	Exp%	Act%
64.00	100	100
66.00	34.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26934.D edits: chloroethane

SGS ACCUTEST MC27954

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26935.d
Acq On : 7 Jan 2014 1:49 pm
Operator : amym
Sample : ic1019-2
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

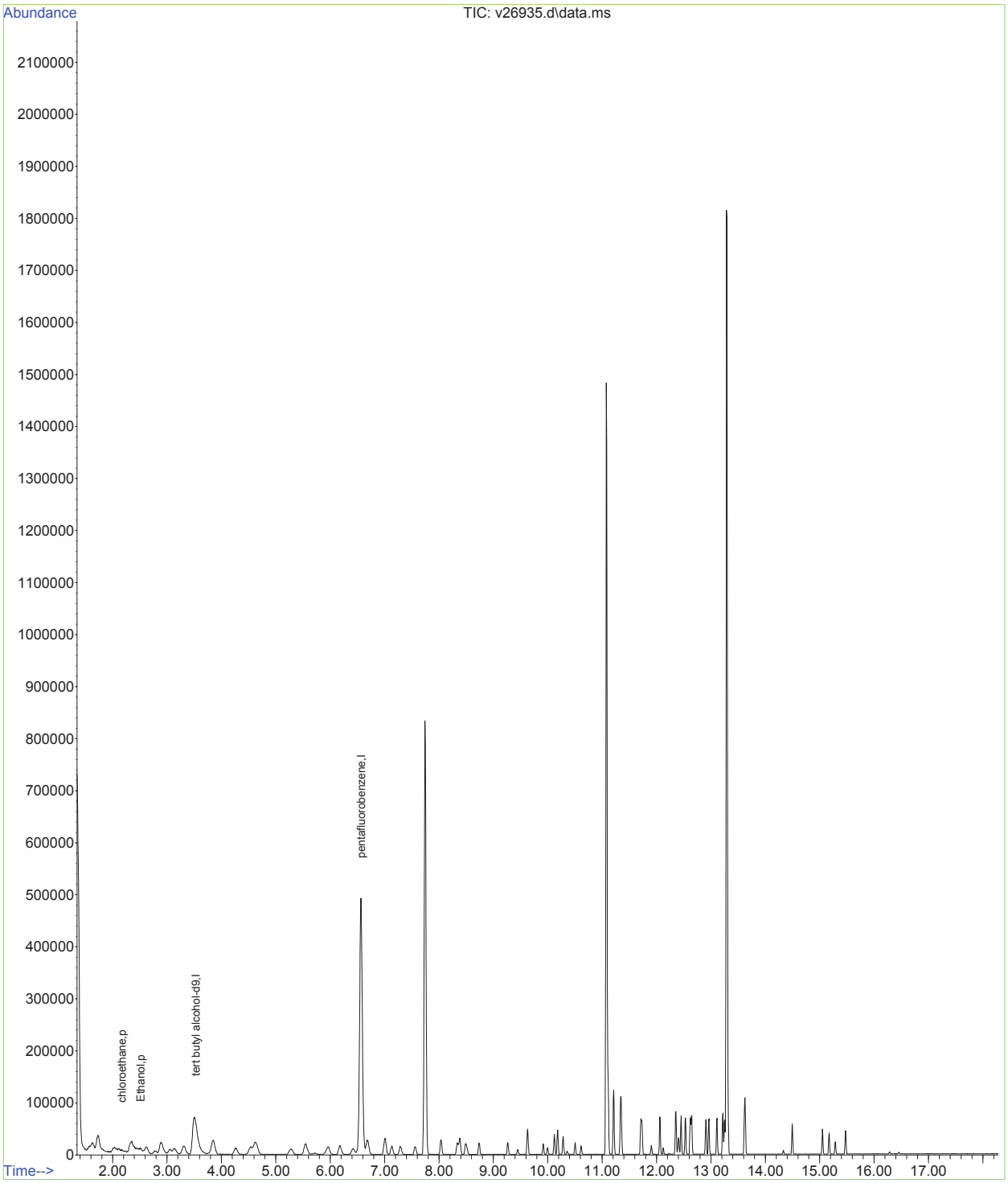
Quant Time: Oct 12 11:52:51 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.533	65	165100	500.00	ug/L	0.01
3) pentafluorobenzene	6.569	168	548060	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.516	45	10989m	474.44	ug/L	
4) chloroethane	2.170	64	11967	2.68	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

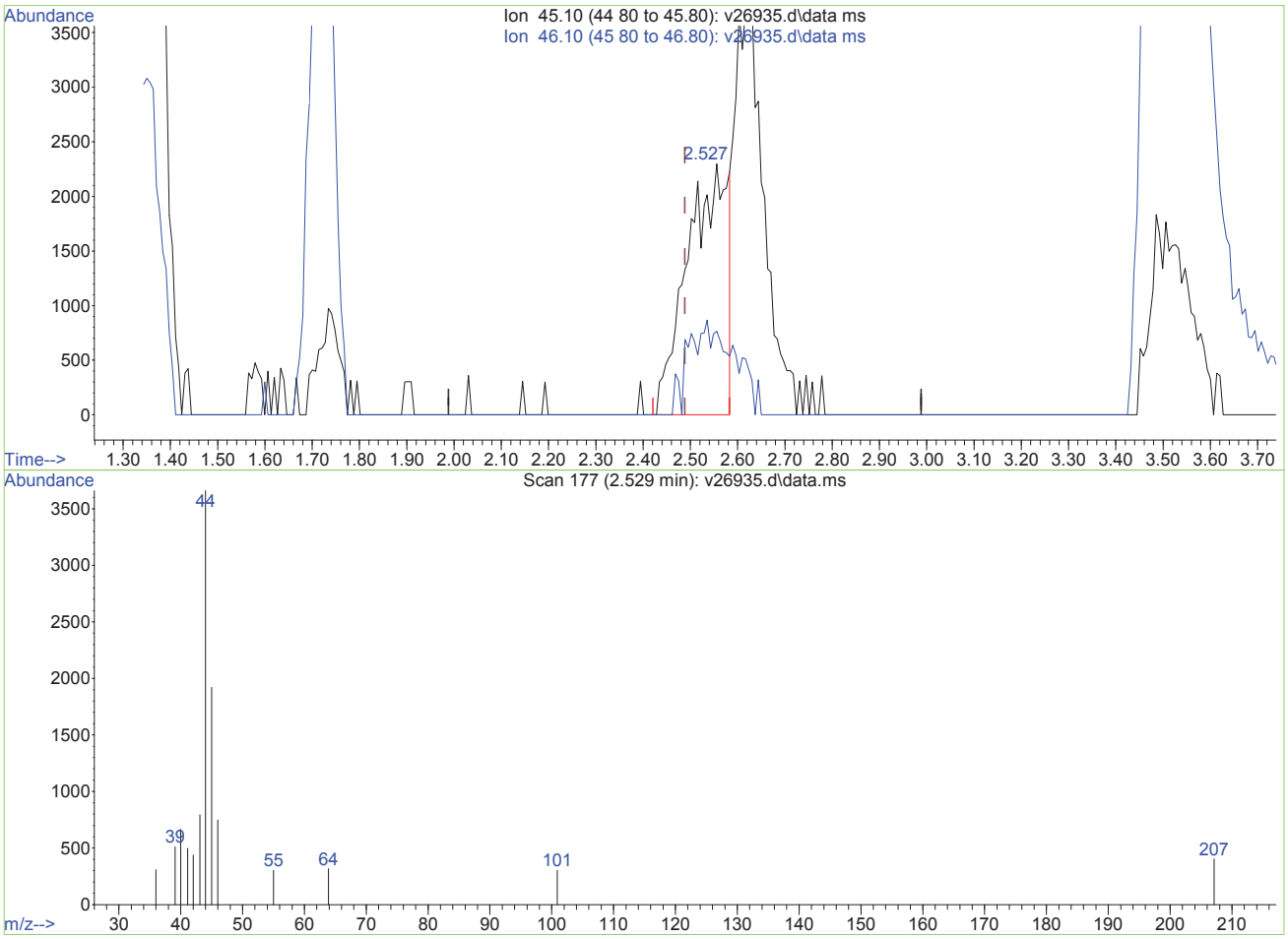
Data Path : O:\msv\1\databackup\v140107\
Data File : v26935.d
Acq On : 7 Jan 2014 1:49 pm
Operator : amym
Sample : ic1019-2
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 12 11:52:51 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Data Path : O:\msv\1\databackup\v140107\
Data File : v26935.d
Acq On : 7 Jan 2014 1:49 pm
Operator : amym
Sample : ic1019-2
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 12 11:49:55 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26935.d\data.ms

(2) Ethanol (p)

2.527min (+0.039) 585.36ug/L

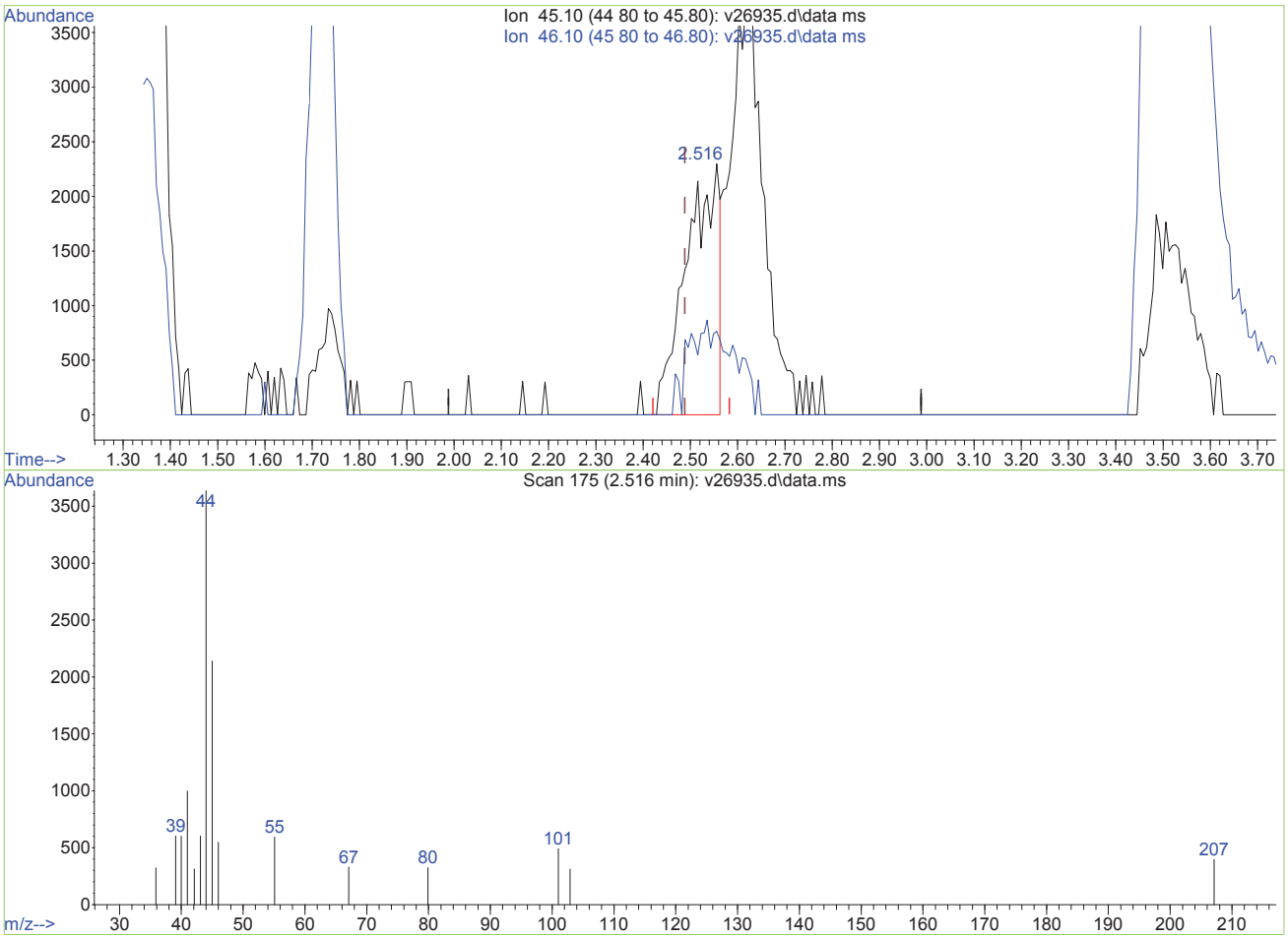
response 13558

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	43.04#
0.00	0.00	0.00
0.00	0.00	0.00

V26935.D edits: Ethanol

Data Path : O:\msv\1\databackup\v140107\
Data File : v26935.d
Acq On : 7 Jan 2014 1:49 pm
Operator : amym
Sample : ic1019-2
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 12 11:49:55 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26935.d\data.ms

(2) Ethanol (p)

2.516min (+0.027) 474.44ug/L m

response 10989

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	53.11#
0.00	0.00	0.00
0.00	0.00	0.00

V26935.D edits: Ethanol

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26936.d
Acq On : 7 Jan 2014 2:16 pm
Operator : amym
Sample : ic1019-5
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 12 11:49:57 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

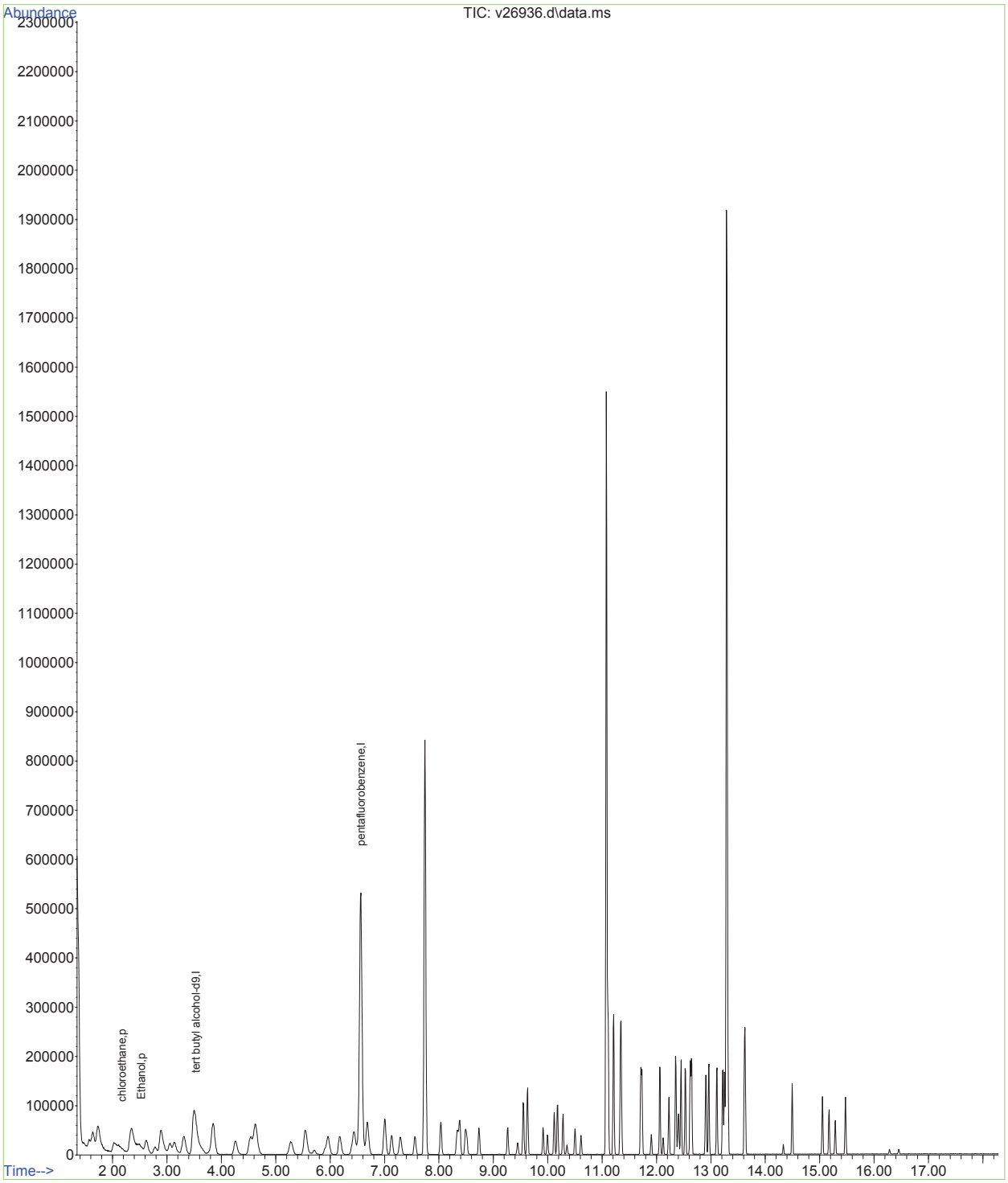
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.532	65	174193	500.00	ug/L	0.00
3) pentafluorobenzene	6.565	168	569450	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.523	45	24520	1003.38	ug/L	# 1
4) chloroethane	2.173	64	26754	5.77	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST
MC27954

Data Path : O:\msv\1\databackup\v140107\
Data File : v26936.d
Acq On : 7 Jan 2014 2:16 pm
Operator : amym
Sample : ic1019-5
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 12 11:49:57 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26937.d
Acq On : 7 Jan 2014 2:42 pm
Operator : amym
Sample : ic1019-10
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

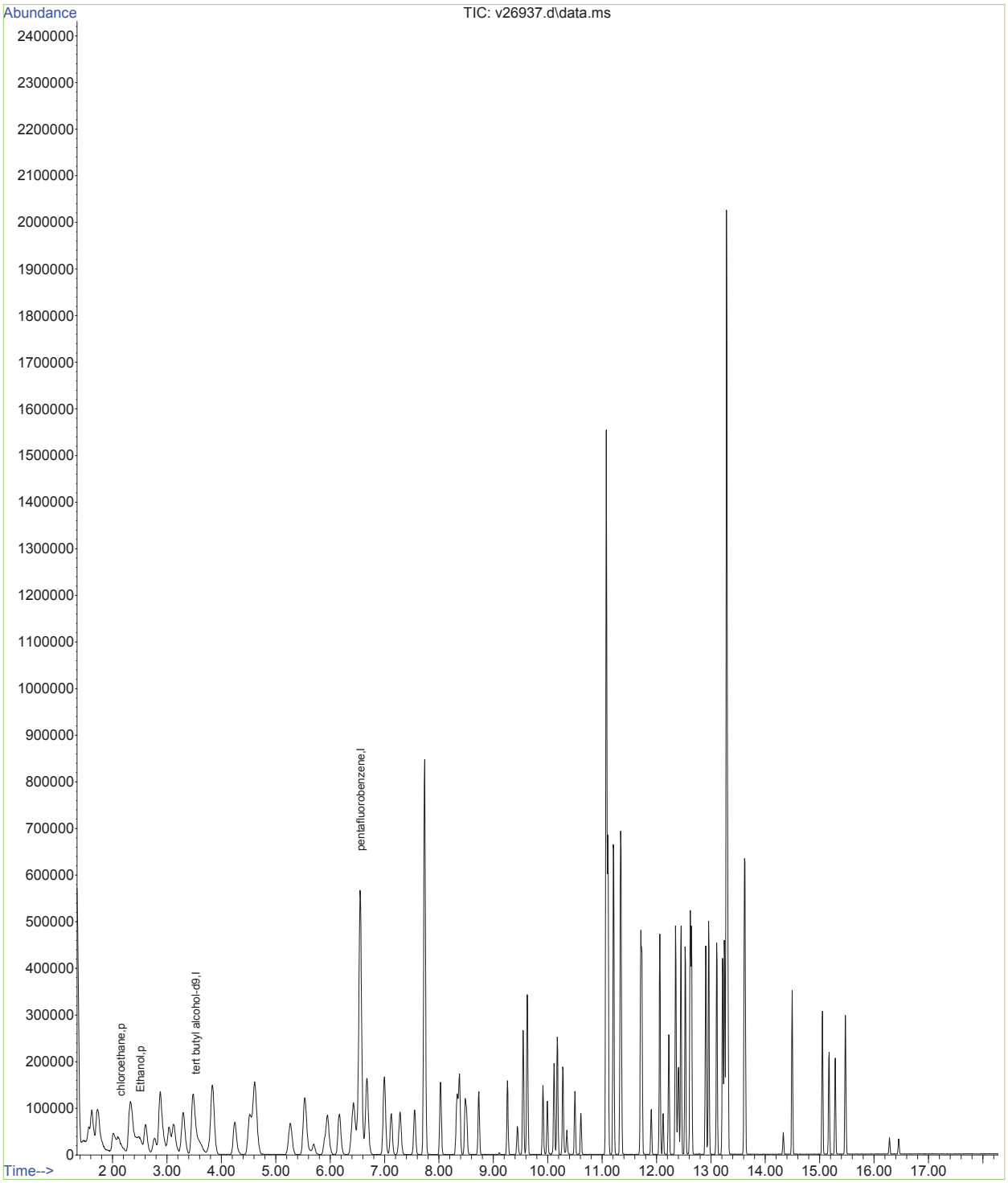
Quant Time: Oct 12 11:49:59 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.523	65	172384	500.00	ug/L	0.00
3) pentafluorobenzene	6.556	168	597997	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.509	45	48113	1989.48	ug/L	# 1
4) chloroethane	2.155	64	52409	10.77	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msv\1\databackup\v140107\
Data File : v26937.d
Acq On : 7 Jan 2014 2:42 pm
Operator : amym
Sample : ic1019-10
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 12 11:49:59 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Data Path : O:\msv\1\databackup\v140107\
Data File : v26938.d
Acq On : 7 Jan 2014 3:08 pm
Operator : amym
Sample : icc1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

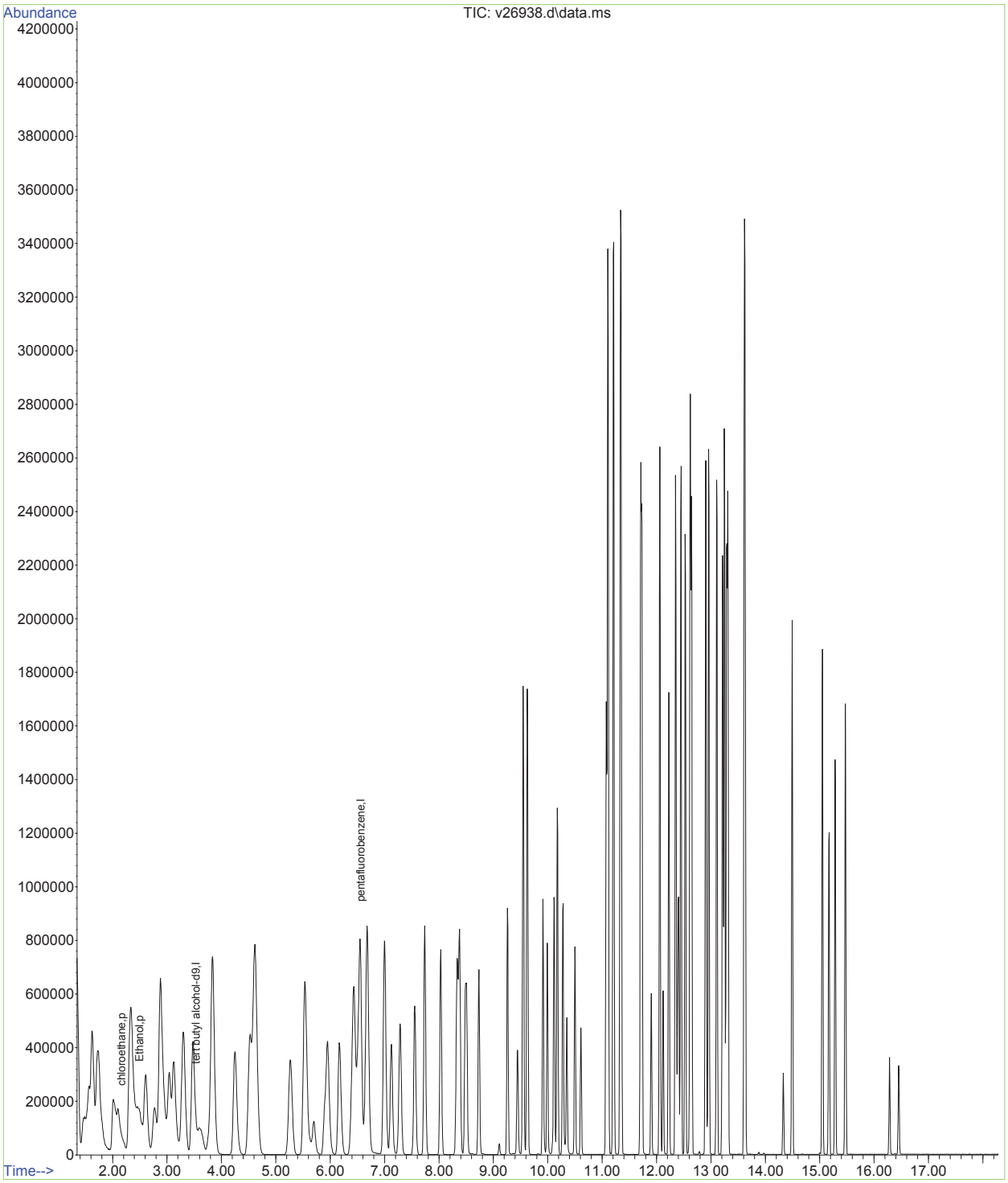
Quant Time: Oct 12 11:54:24 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.524	65	196490	500.00	ug/L	0.00
3) pentafluorobenzene	6.559	168	650576	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.489	45	137020m	4970.70	ug/L	
4) chloroethane	2.155	64	264750	50.00	ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

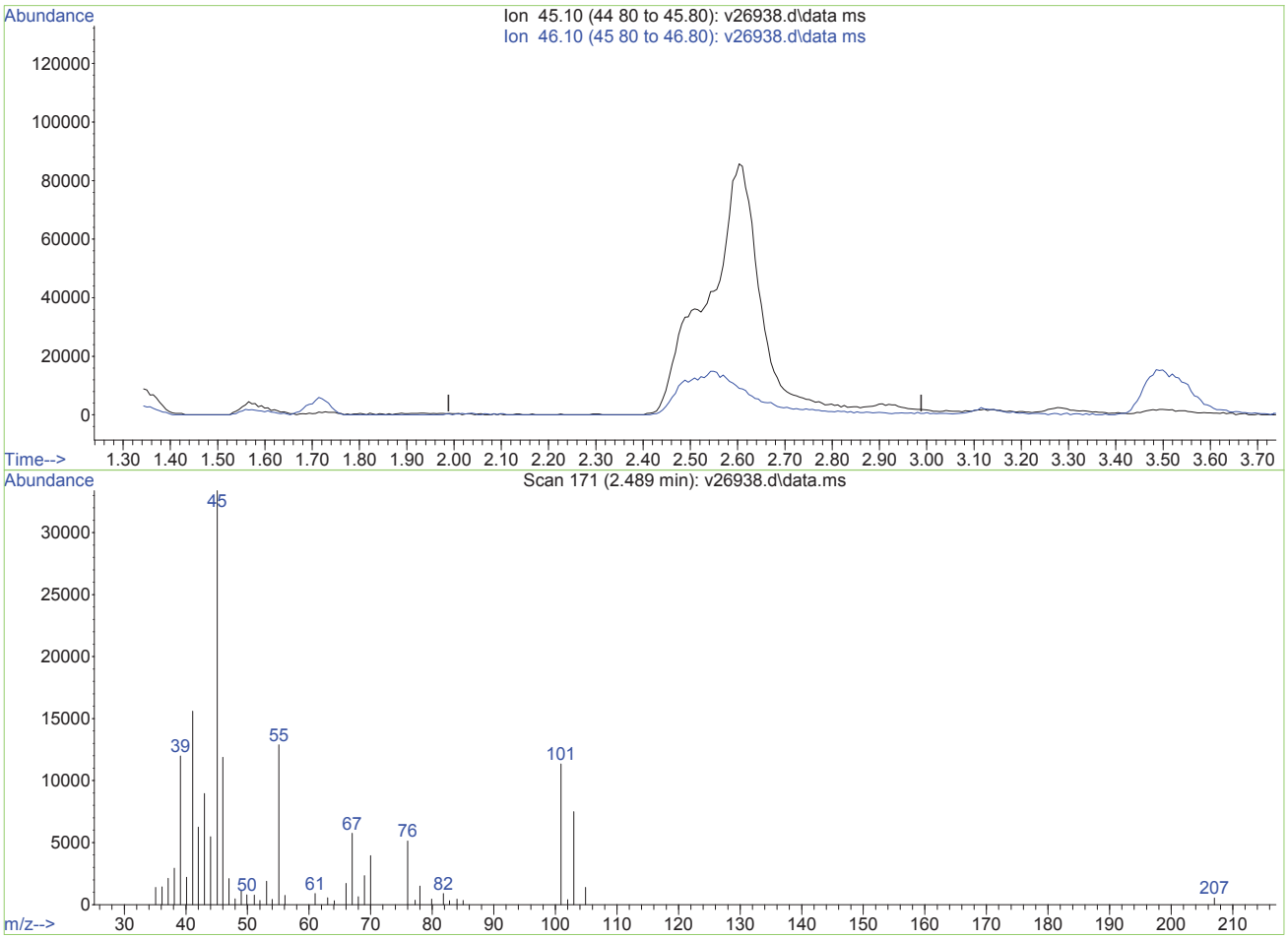
Data Path : O:\msv\1\databackup\v140107\
Data File : v26938.d
Acq On : 7 Jan 2014 3:08 pm
Operator : amym
Sample : icc1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 12 11:54:24 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Data Path : O:\msv\1\databackup\v140107\
Data File : v26938.d
Acq On : 7 Jan 2014 3:08 pm
Operator : amym
Sample : icc1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 12 11:50:01 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26938.d\data.ms

(2) Ethanol (p)

2.489min (-2.489) 0.00ug/L

response 0

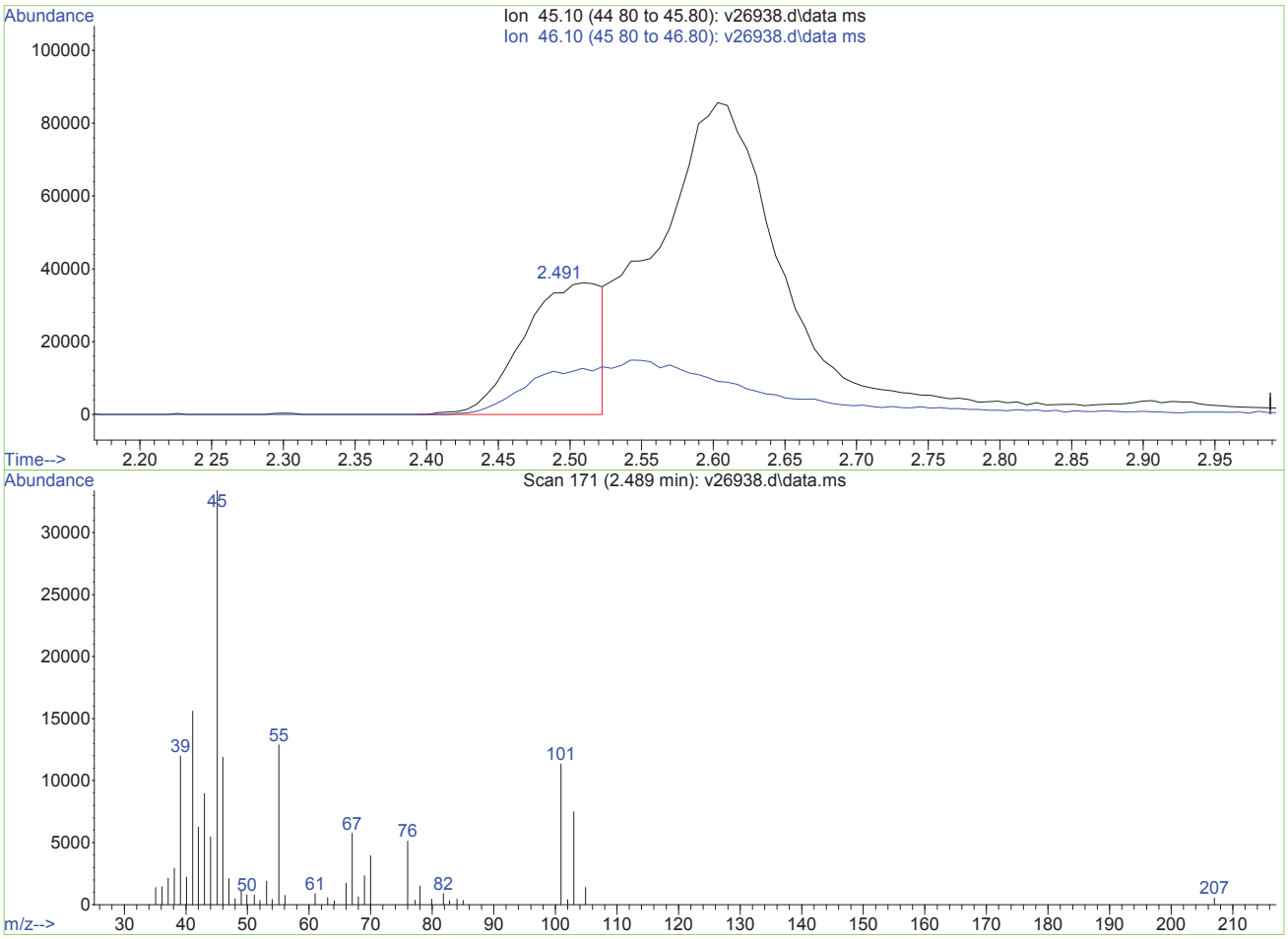
Ion	Exp%	Act%
45.10	100	0.00
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26938.D edits: Ethanol

SGS ACCUTEST MC27954

Data Path : O:\msv\1\databackup\v140107\
Data File : v26938.d
Acq On : 7 Jan 2014 3:08 pm
Operator : amym
Sample : icc1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 12 11:50:01 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26938.d\data.ms

(2) Ethanol (p)

2.489min (0.000) 4970.70ug/L m

response 137020

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26938.D edits: Ethanol

SGS ACCUTEST MC27954

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26939.d
Acq On : 7 Jan 2014 3:35 pm
Operator : amym
Sample : ic1019-100
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 12 11:55:09 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

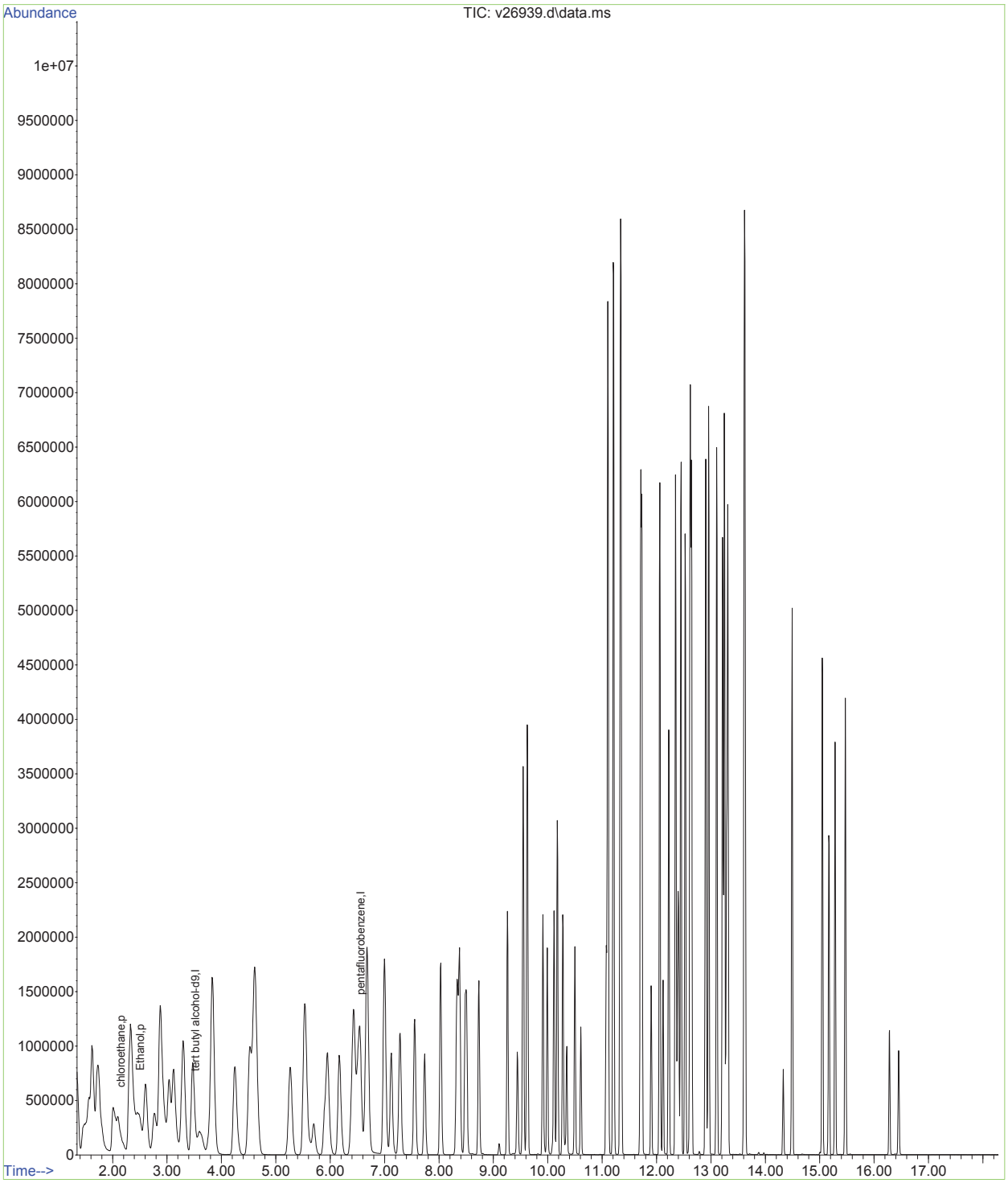
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.521	65	218199	500.00	ug/L	0.00
3) pentafluorobenzene	6.558	168	709327	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.502	45	415447m	13571.79	ug/L	
4) chloroethane	2.151	64	566729	98.17	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST MC27954

Data Path : O:\msv\1\databackup\v140107\
Data File : v26939.d
Acq On : 7 Jan 2014 3:35 pm
Operator : amym
Sample : ic1019-100
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

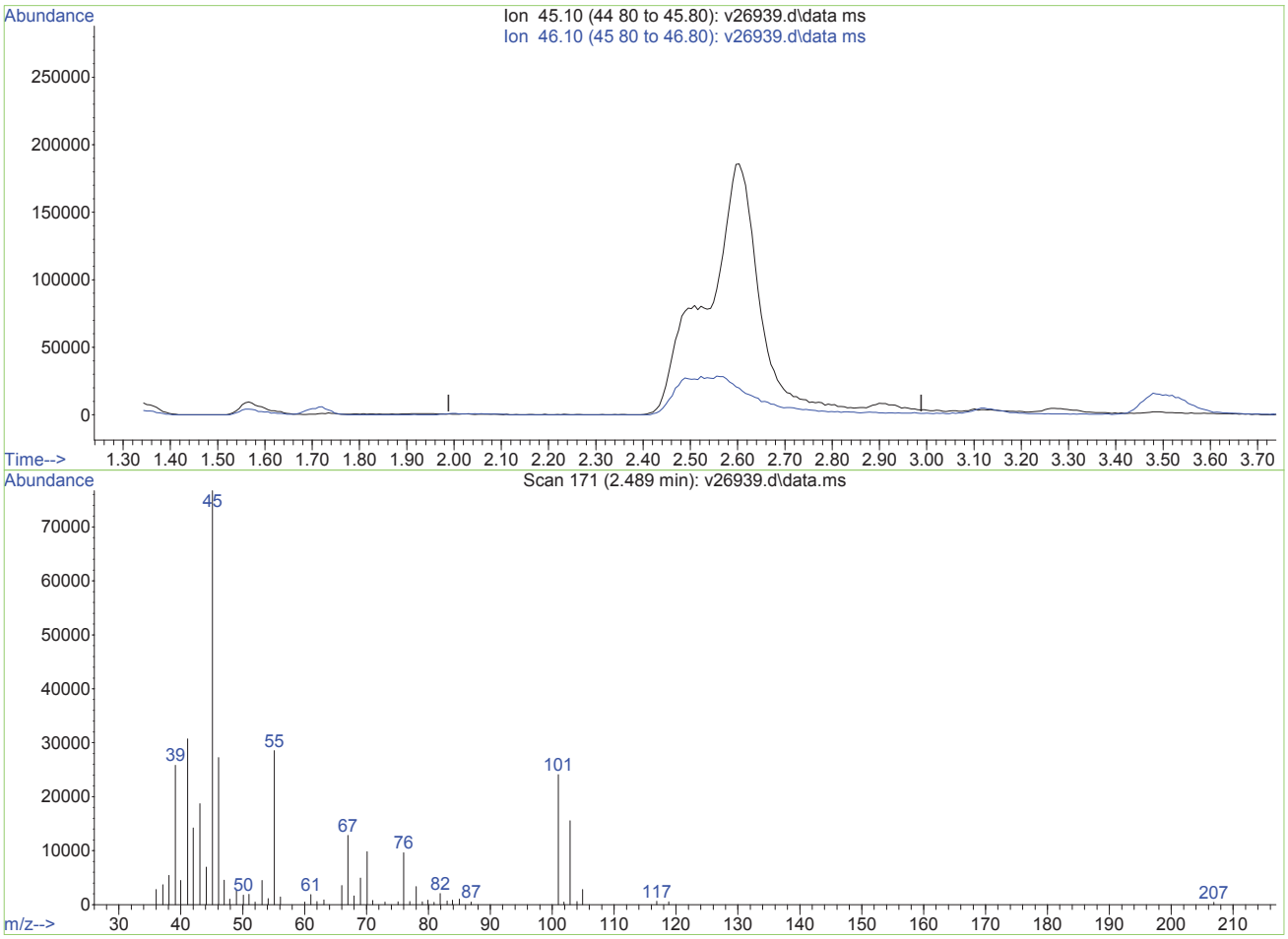
Quant Time: Oct 12 11:55:09 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26939.d
Acq On : 7 Jan 2014 3:35 pm
Operator : amym
Sample : ic1019-100
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 12 11:50:03 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26939.d\data.ms

(2) Ethanol (p)

2.489min (-2.489) 0.00ug/L

response 0

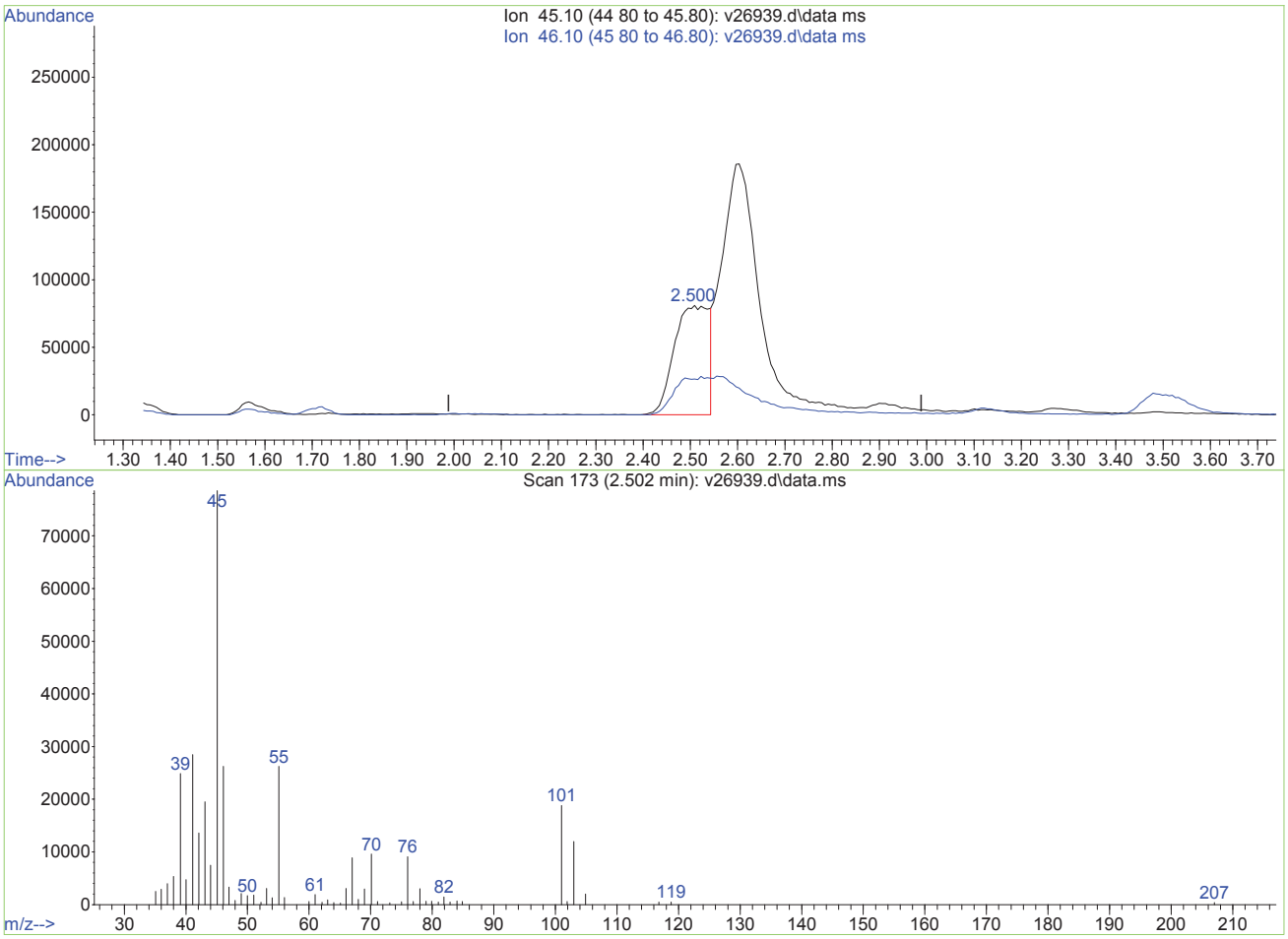
Ion	Exp%	Act%
45.10	100	0.00
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26939.D edits: Ethanol

SGS ACCUTEST MC27954

Data Path : O:\msv\1\databackup\v140107\
Data File : v26939.d
Acq On : 7 Jan 2014 3:35 pm
Operator : amym
Sample : ic1019-100
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 12 11:50:03 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26939.d\data.ms

(2) Ethanol (p)

2.502min (+0.013) 13571.79ug/L m

response 415447

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26939.D edits: Ethanol

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:56:38 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

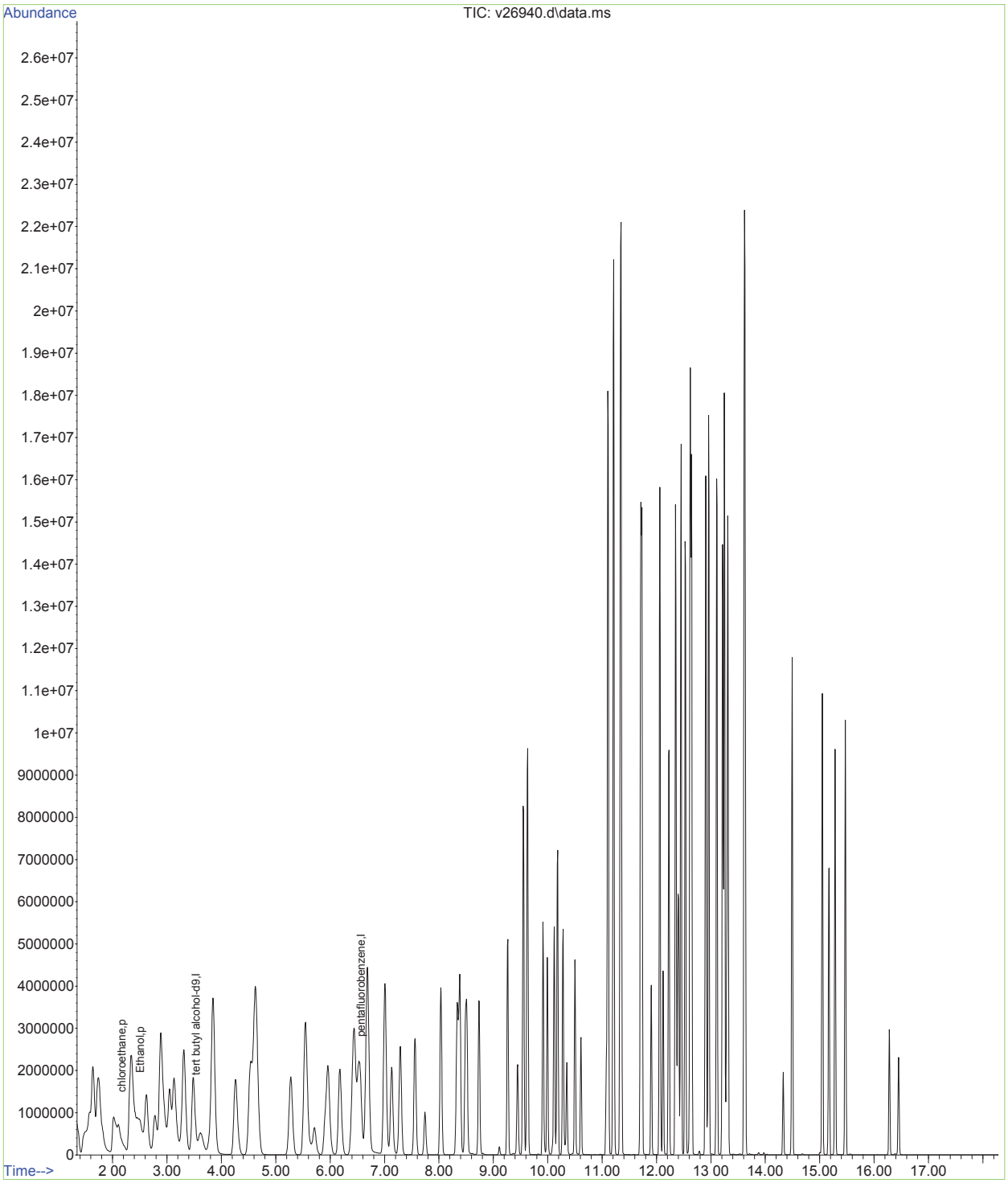
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) tert butyl alcohol-d9	3.526	65	248311m	500.00 ug/L	0.00
3) pentafluorobenzene	6.565	168	827373	50.00 ug/L	0.00
Target Compounds					Qvalue
2) Ethanol	2.502	45	690608m	19824.86 ug/L	
4) chloroethane	2.165	64	1217177m	180.75 ug/L	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST MC27954

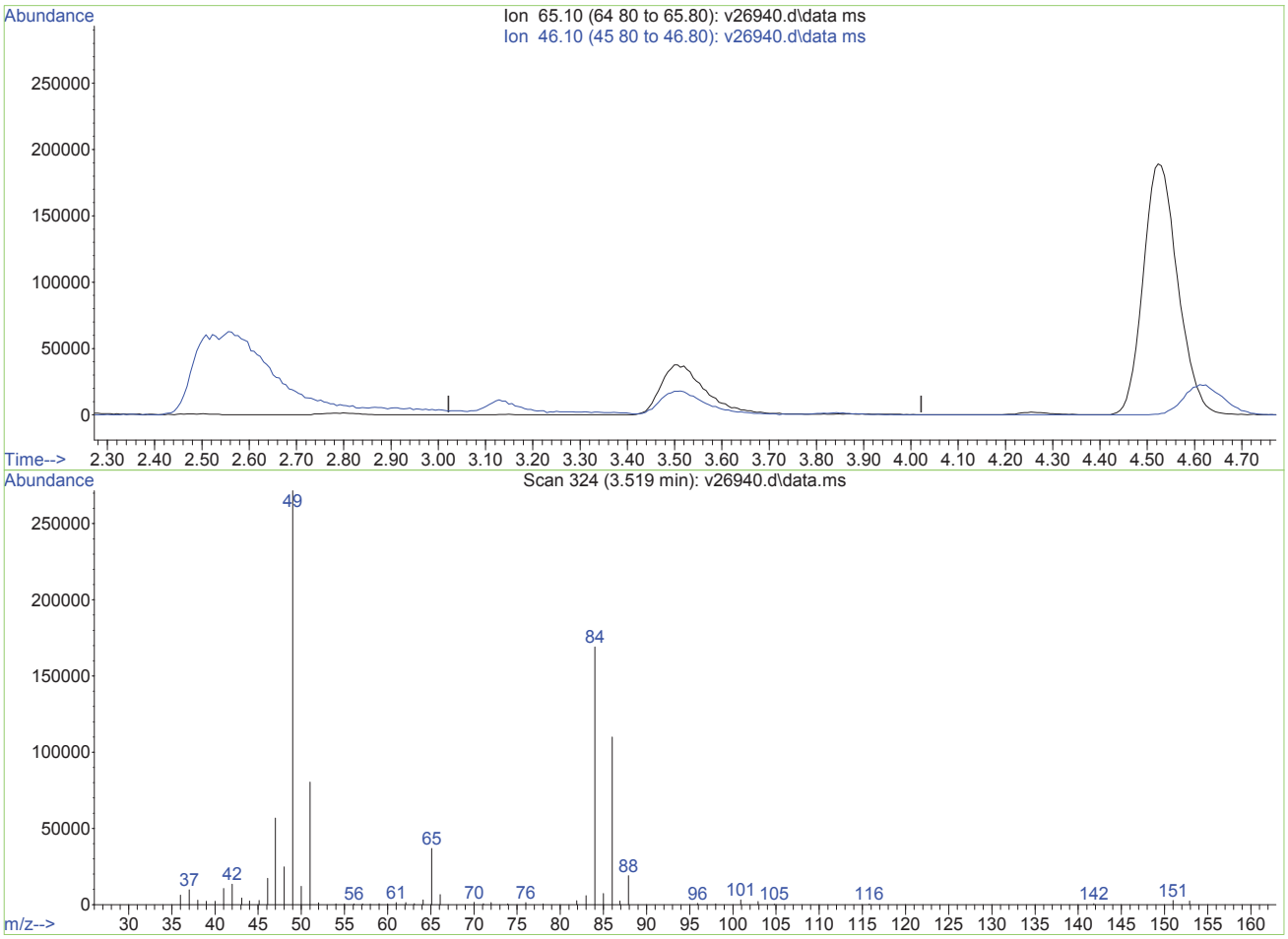
Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:56:38 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:50:05 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26940.d\data.ms

(1) tert butyl alcohol-d9 (I)

3.522min (-3.522) 0.00ug/L

response 0

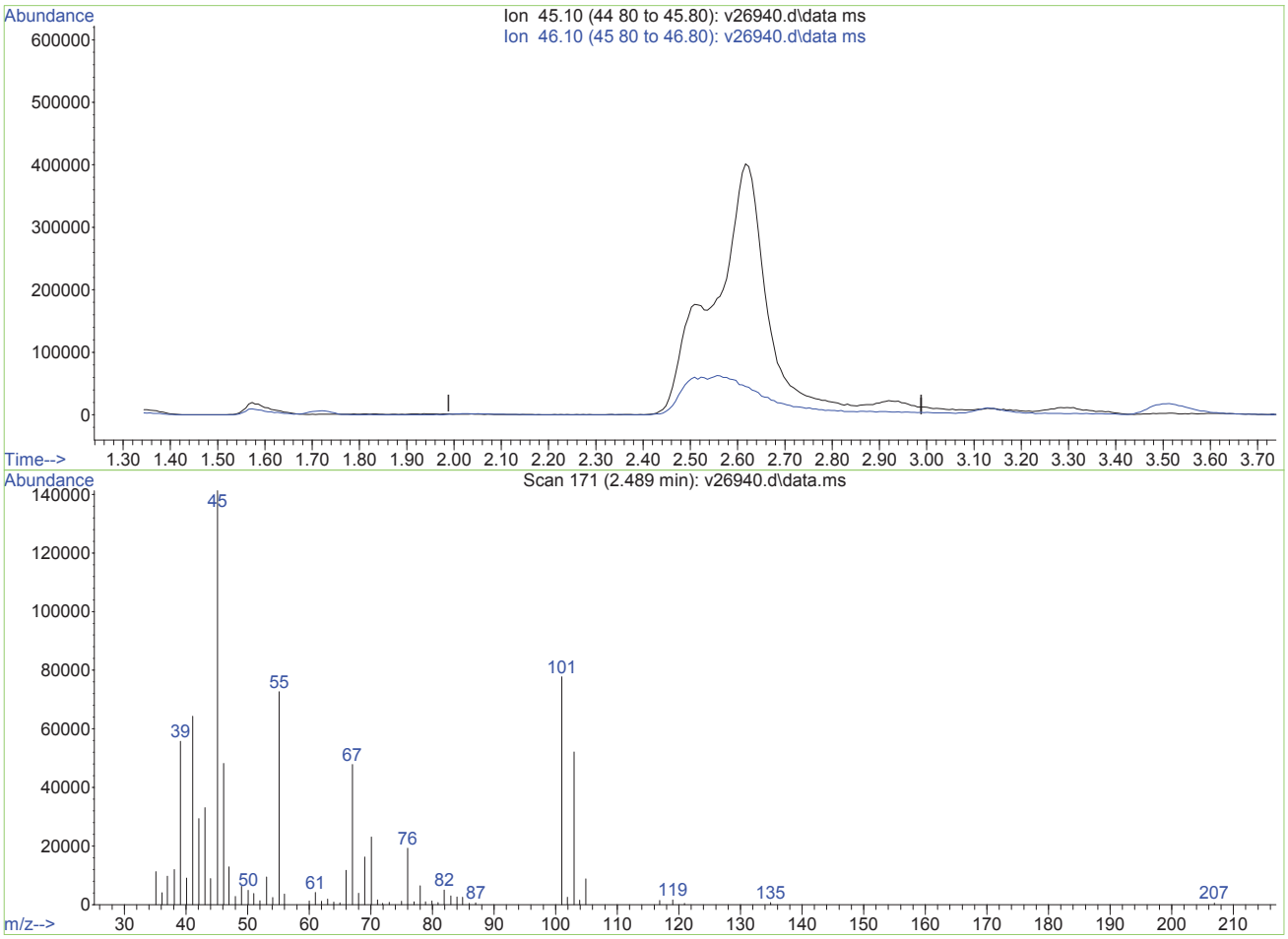
Ion	Exp%	Act%
65.10	100	0.00
46.10	54.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26940.D edits: tert butyl alcohol-d9

Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:50:05 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26940.d\data.ms

(2) Ethanol (p)

2.489min (-2.489) 0.00ug/L

response 0

Ion	Exp%	Act%
45.10	100	0.00
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

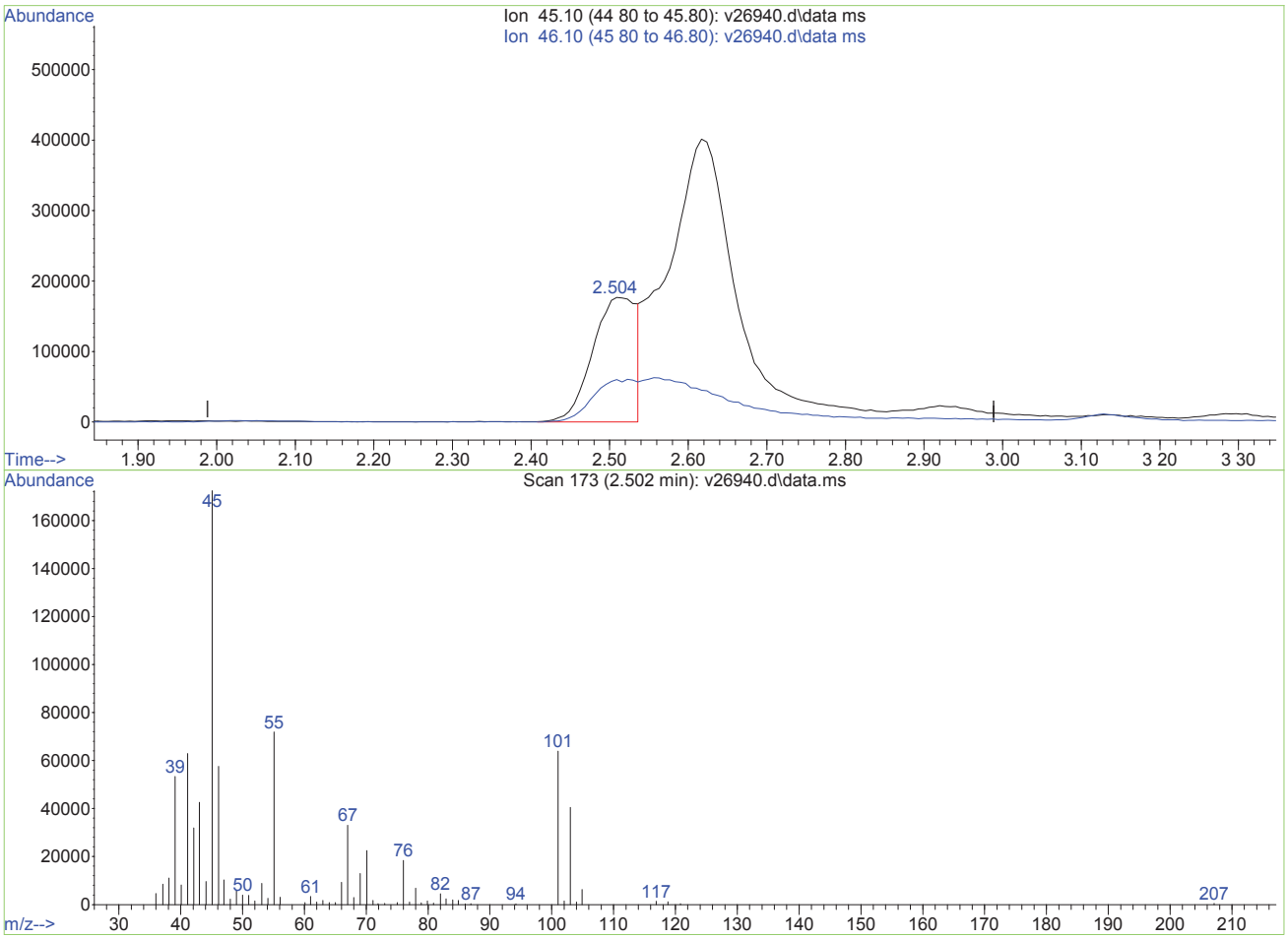
V26940.D edits: Ethanol

SGS ACCUTEST MC27954

Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:50:05 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26940.d\data.ms

(2) Ethanol (p)

2.502min (+0.014) 19824.86ug/L m

response 690608

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

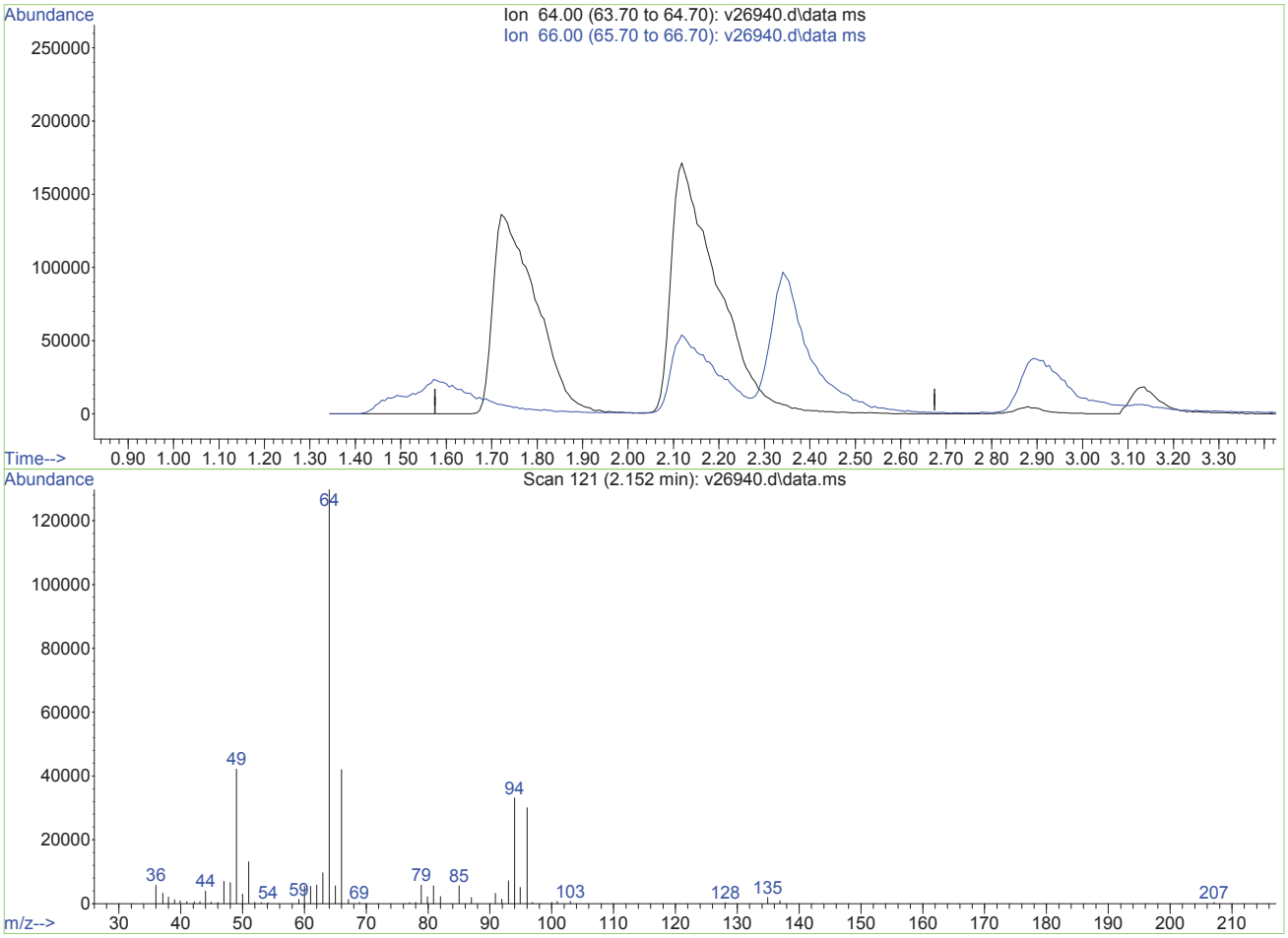
V26940.D edits: Ethanol

SGS ACCUTEST MC27954

Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:50:05 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26940.d\data.ms

(4) chloroethane (p)

2.155min (-2.155) 0.00ug/L

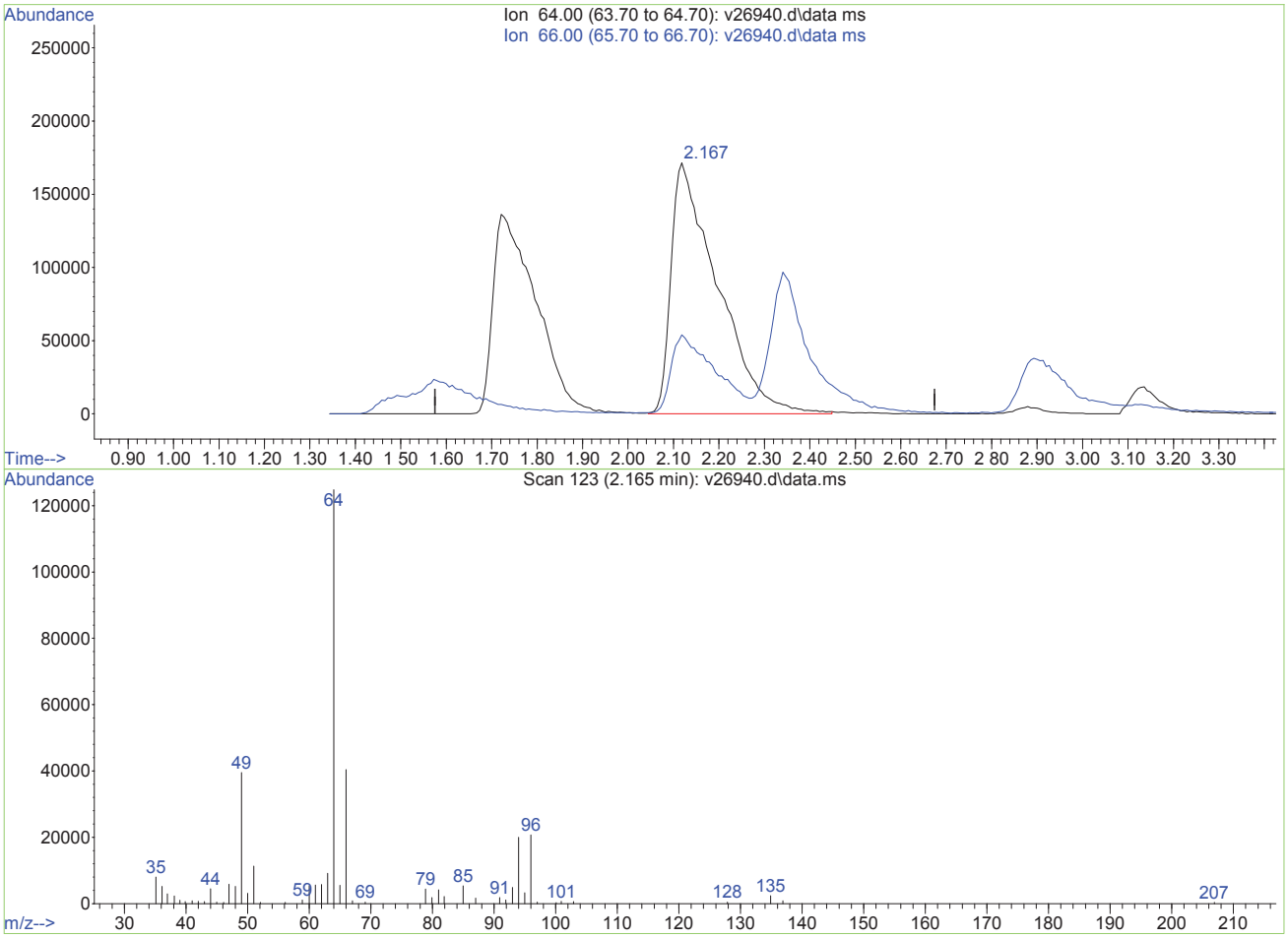
response 0

Ion	Exp%	Act%
64.00	100	0.00
66.00	34.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26940.D edits: chloroethane

Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:50:05 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26940.d\data.ms

(4) chloroethane (p)

2.165min (+0.010) 180.75ug/L m

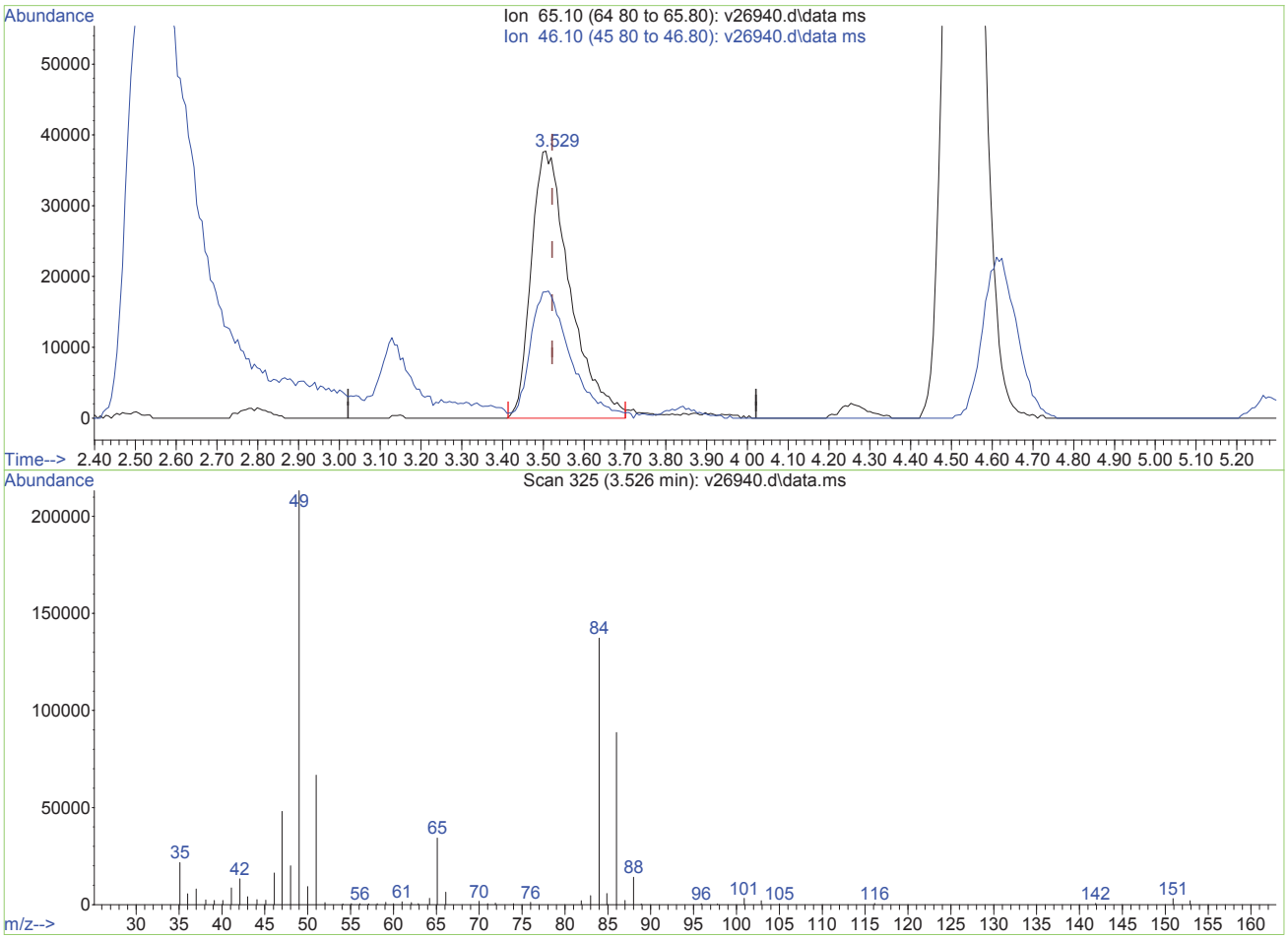
response 1217177

Ion	Exp%	Act%
64.00	100	100
66.00	34.60	32.37
0.00	0.00	0.00
0.00	0.00	0.00

V26940.D edits: chloroethane

Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:56:38 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26940.d\data.ms

(1) tert butyl alcohol-d9 (I)

3.526min (+0.004) 500.00ug/L m

response 248311

Ion	Exp%	Act%
65.10	100	100
46.10	54.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26940.D edits: tert butyl alcohol-d9

Data Path : O:\msv\1\databackup\v140107\
Data File : v26942.d
Acq On : 7 Jan 2014 5:47 pm
Operator : amym
Sample : ic1019-400
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

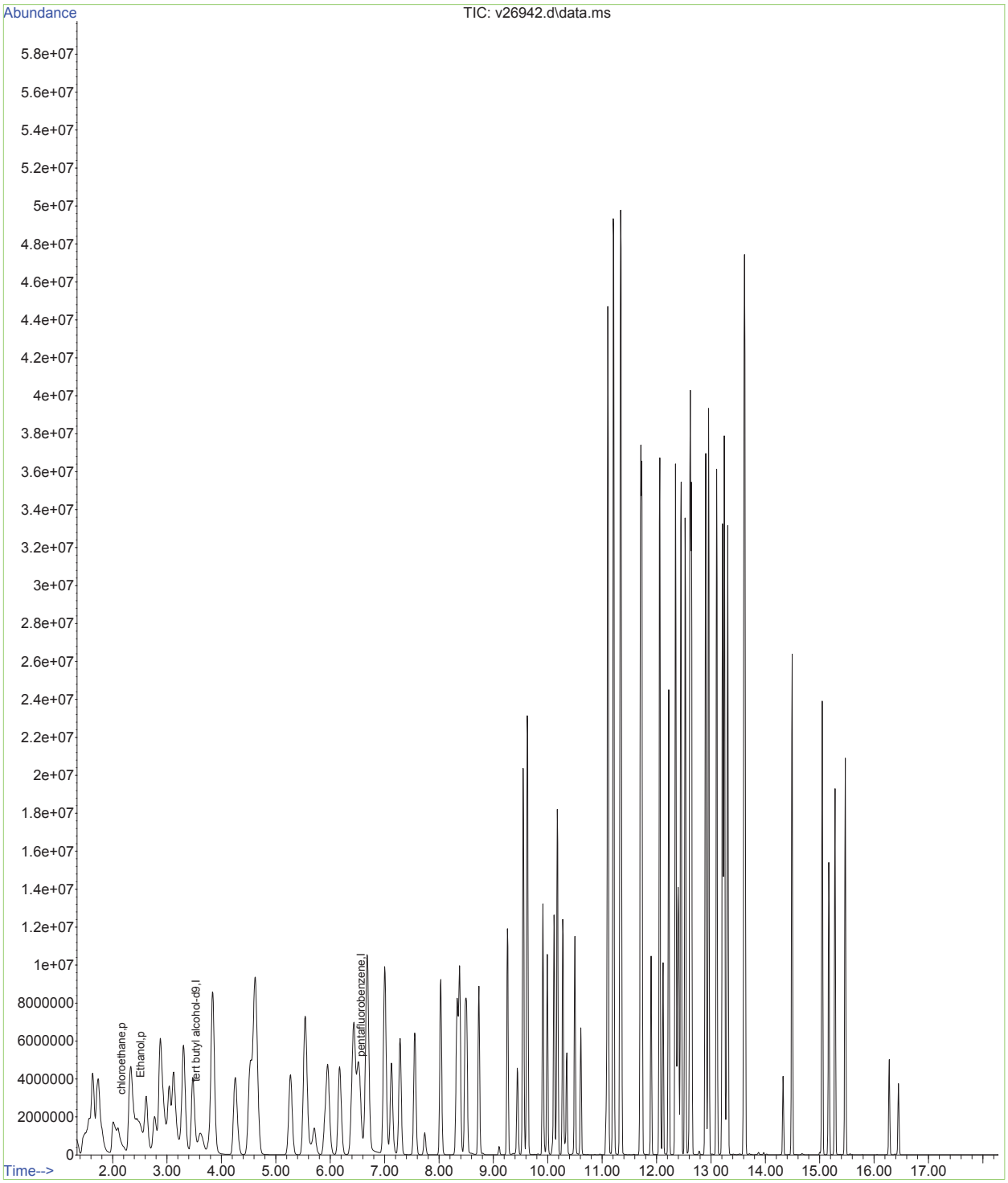
Quant Time: Oct 12 11:57:12 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.528	65	280929	500.00	ug/L	0.00
3) pentafluorobenzene	6.561	168	994052	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.509	45	1732790m	43966.69	ug/L	
4) chloroethane	2.160	64	2471921	305.53	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

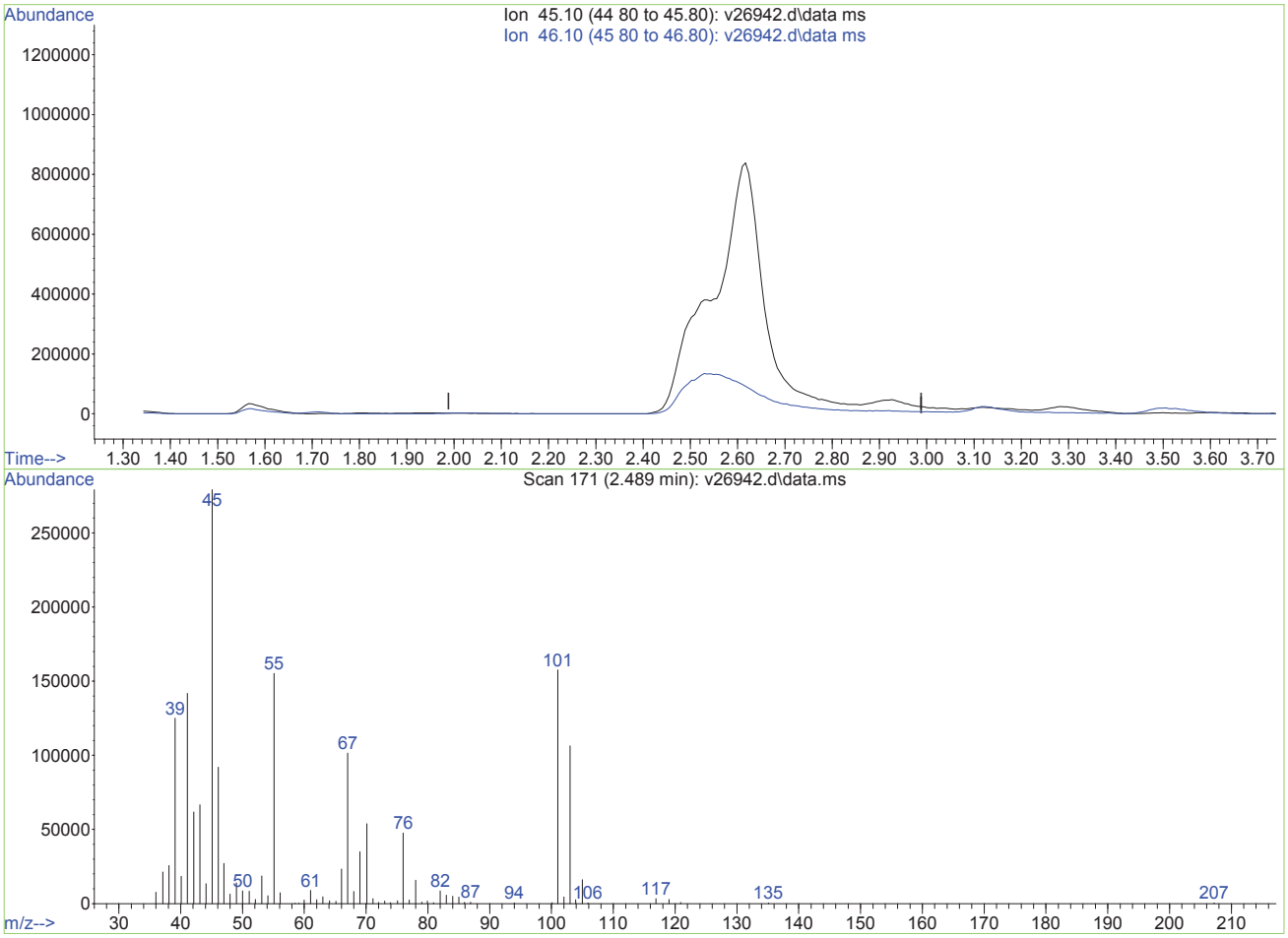
Data Path : O:\msv\1\databackup\v140107\
Data File : v26942.d
Acq On : 7 Jan 2014 5:47 pm
Operator : amym
Sample : ic1019-400
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 12 11:57:12 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Data Path : O:\msv\1\databackup\v140107\
Data File : v26942.d
Acq On : 7 Jan 2014 5:47 pm
Operator : amym
Sample : ic1019-400
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 12 11:50:07 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26942.d\data.ms

(2) Ethanol (p)

2.489min (-2.489) 0.00ug/L

response 0

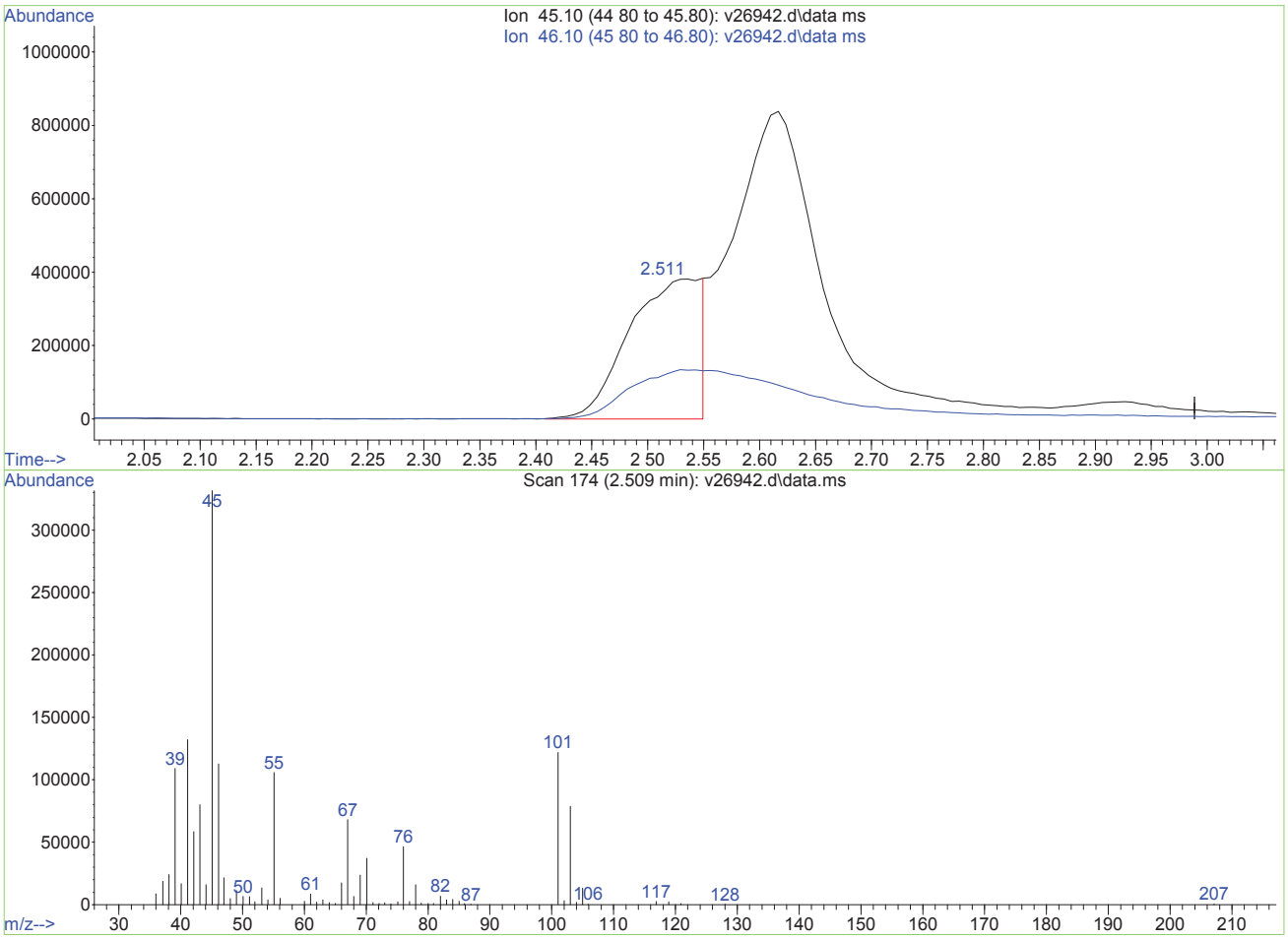
Ion	Exp%	Act%
45.10	100	0.00
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26942.D edits: Ethanol

SGS ACCUTEST MC27954

Data Path : O:\msv\1\databackup\v140107\
Data File : v26942.d
Acq On : 7 Jan 2014 5:47 pm
Operator : amym
Sample : ic1019-400
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 12 11:50:07 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26942.d\data.ms

(2) Ethanol (p)

2.509min (+0.020) 43966.69ug/L m

response 1732790

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26942.D edits: Ethanol

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26944.d
Acq On : 7 Jan 2014 7:05 pm
Operator : amym
Sample : icv1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

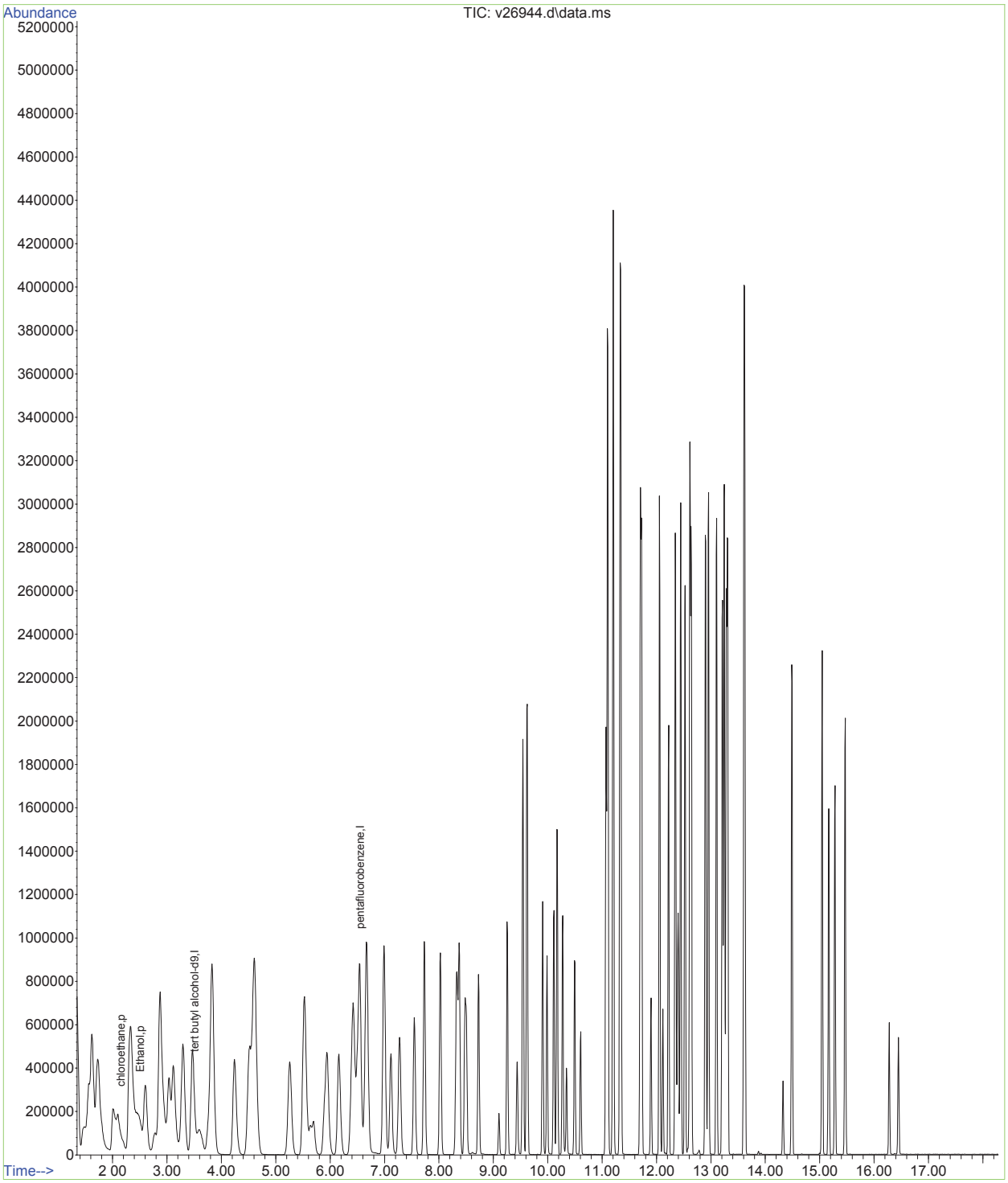
Quant Time: Oct 12 12:04:13 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.508	65	215524	500.00	ug/L	-0.01
3) pentafluorobenzene	6.550	168	735695	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.502	45	219095m	6281.66	ug/L	
4) chloroethane	2.149	64	314843	55.64	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

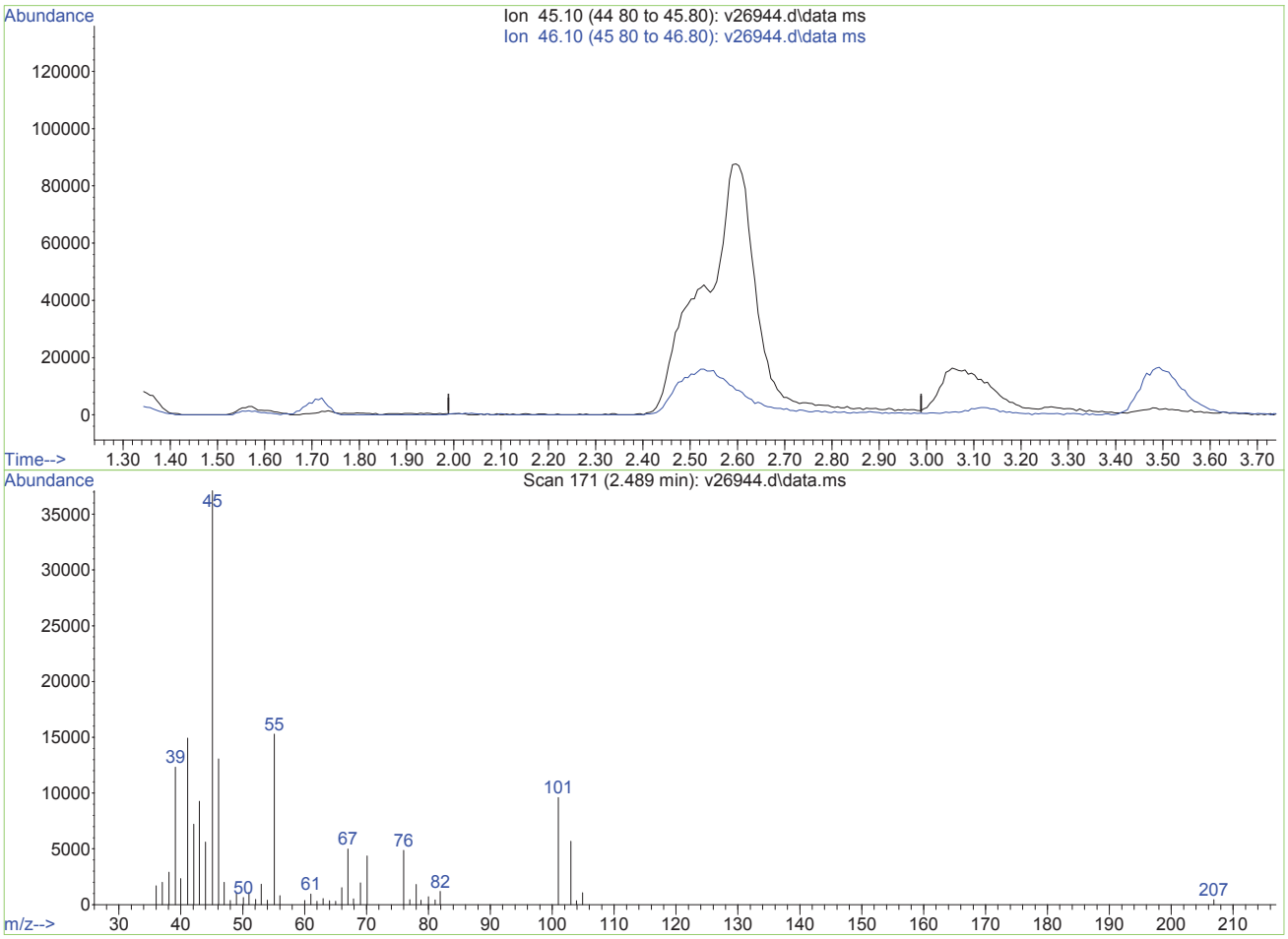
Data Path : O:\msv\1\databackup\v140107\
Data File : v26944.d
Acq On : 7 Jan 2014 7:05 pm
Operator : amym
Sample : icv1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 12 12:04:13 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Data Path : O:\msv\1\databackup\v140107\
Data File : v26944.d
Acq On : 7 Jan 2014 7:05 pm
Operator : amym
Sample : icv1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 12 12:03:55 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



TIC: v26944.d\data.ms

(2) Ethanol (p)

2.489min (-2.489) 0.00ug/L

response 0

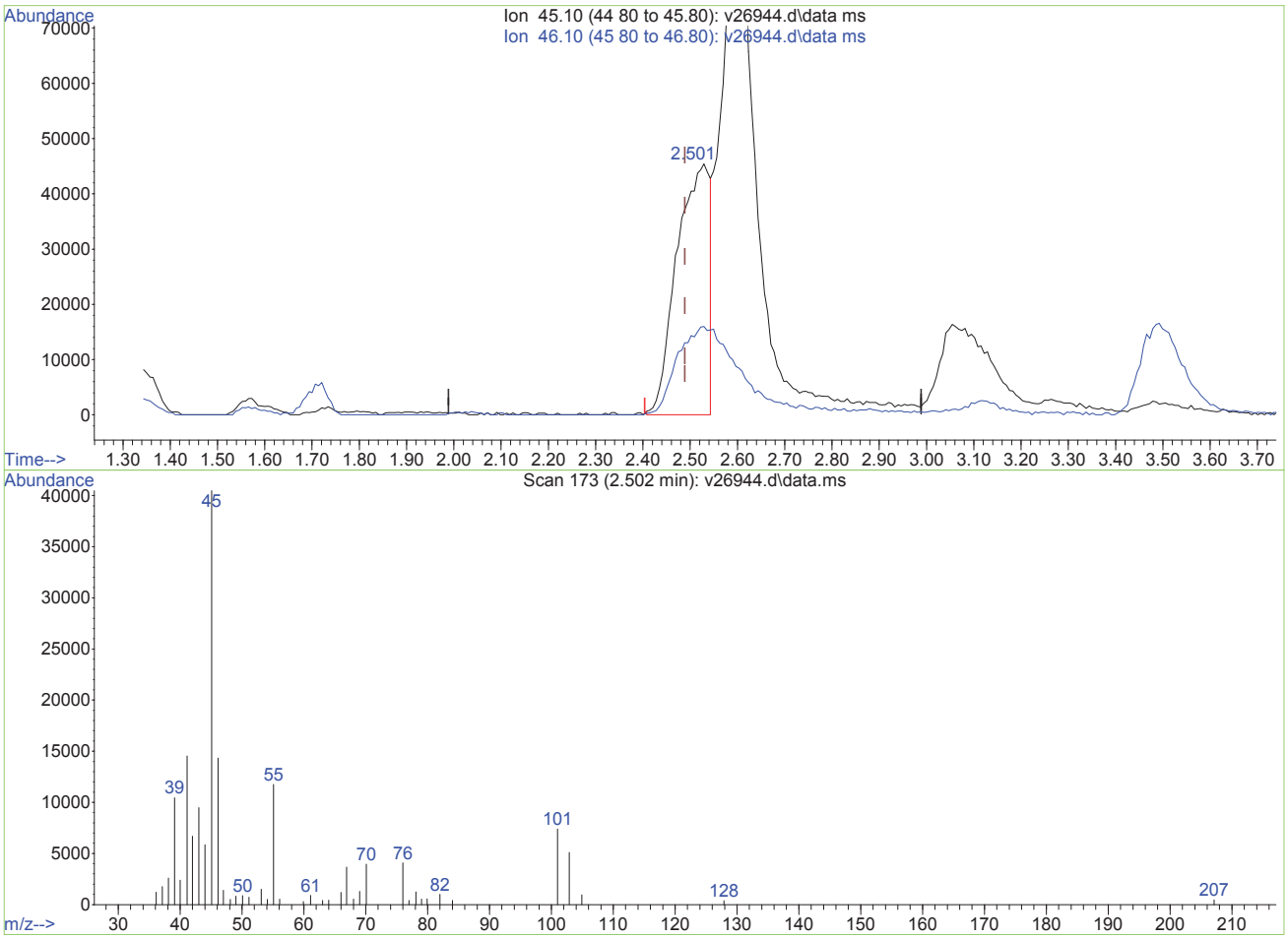
Ion	Exp%	Act%
45.10	100	0.00
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26944.D edits: Ethanol

SGS ACCUTEST MC27954

Data Path : O:\msv\1\databackup\v140107\
Data File : v26944.d
Acq On : 7 Jan 2014 7:05 pm
Operator : amym
Sample : icv1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 12 12:03:55 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



TIC: v26944.d\data.ms

(2) Ethanol (p)

2.502min (+0.013) 6281.66ug/L m

response 219095

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26944.D edits: Ethanol

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140203\
Data File : v27553.d
Acq On : 3 Feb 2014 9:09 am
Operator : amym
Sample : cc1019-50
Misc : MS31064,MSV1039,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 19 14:15:46 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

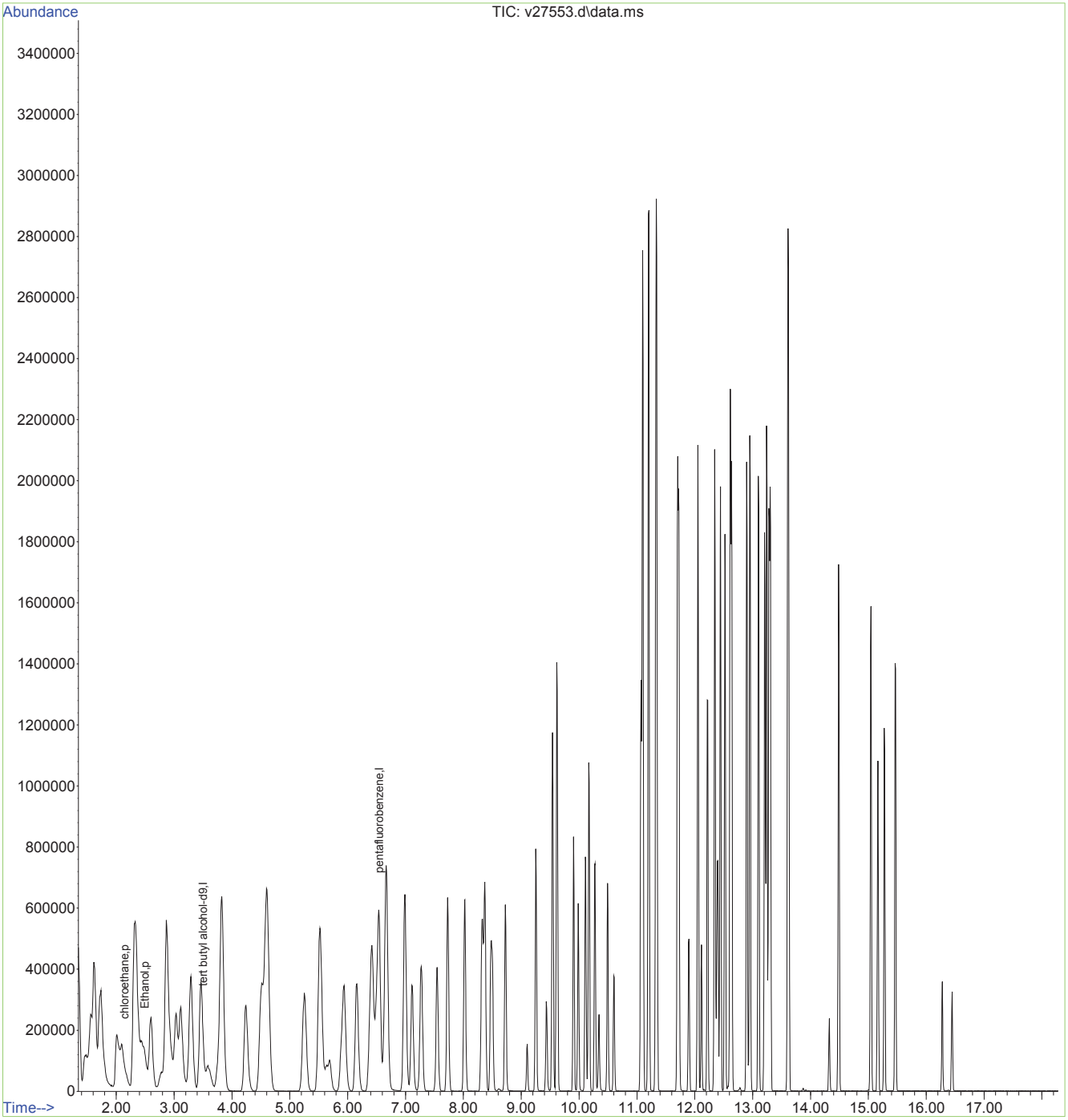
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.501	65	147763	500.00	ug/L	-0.02
3) pentafluorobenzene	6.547	168	464658	50.00	ug/L	-0.01
Target Compounds						Qvalue
2) Ethanol	2.494	45	171292	7230.48	ug/L	# 1
4) chloroethane	2.137	64	243602	68.36	ug/L	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140203\
Data File : v27553.d
Acq On : 3 Feb 2014 9:09 am
Operator : amym
Sample : cc1019-50
Misc : MS31064,MSV1039,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 19 14:15:46 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



SGS ACCUTEST
MC27954

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140205\
Data File : v27637.d
Acq On : 5 Feb 2014 9:23 am
Operator : amym
Sample : cc1019-50
Misc : MS31082,MSV1042,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 19 21:13:54 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

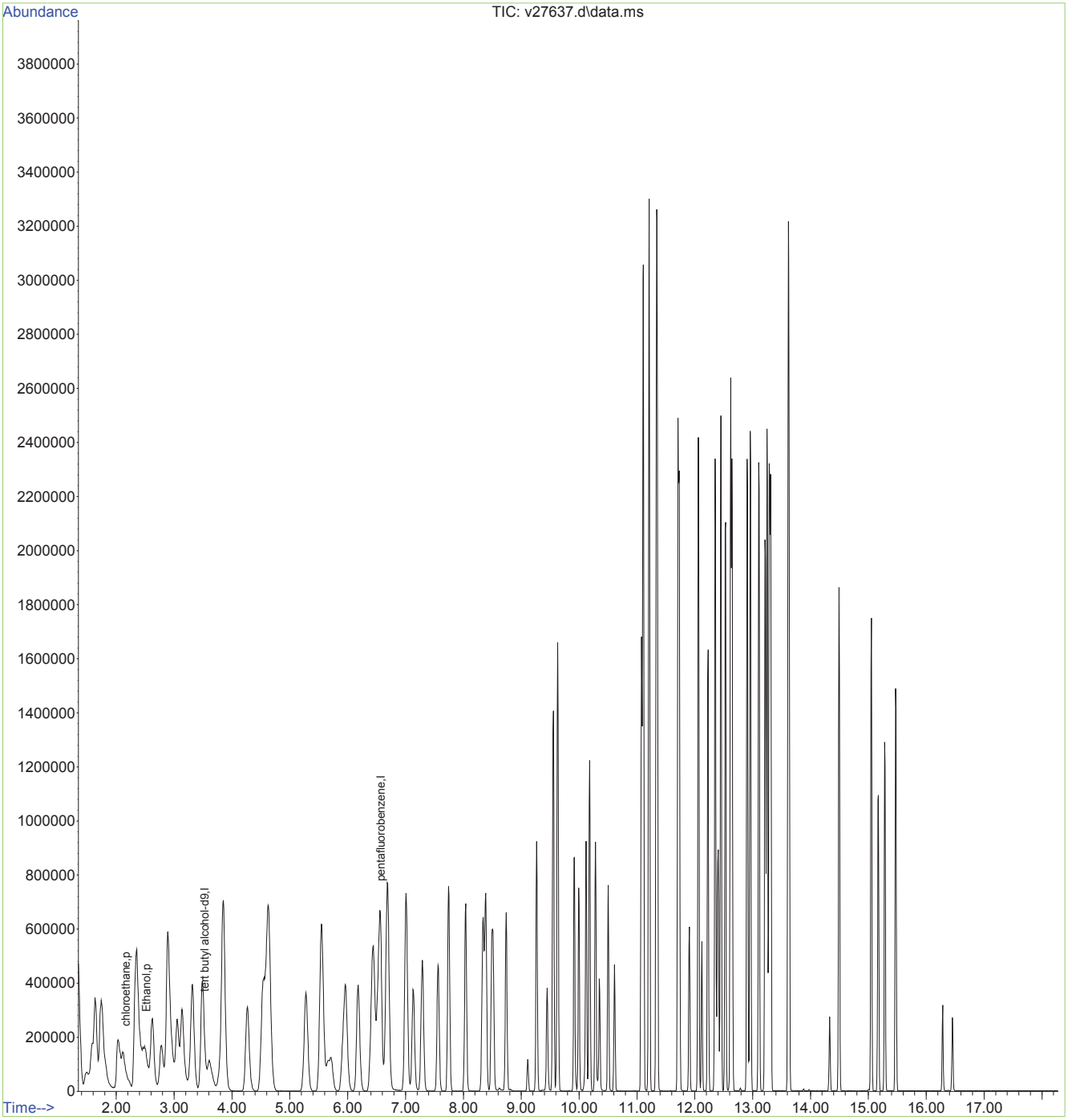
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.528	65	217472	500.00	ug/L	0.00
3) pentafluorobenzene	6.568	168	573160	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.520	45	214946	6094.21	ug/L	# 1
4) chloroethane	2.166	64	232170	52.61	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140205\
Data File : v27637.d
Acq On : 5 Feb 2014 9:23 am
Operator : amym
Sample : cc1019-50
Misc : MS31082,MSV1042,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 19 21:13:54 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140203\
Data File : v27557.d
Acq On : 3 Feb 2014 10:55 am
Operator : amym
Sample : mc27954-4
Misc : MS31066,MSV1039,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 19 14:19:22 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.511	65	131770	500.00	ug/L	-0.01
3) pentafluorobenzene	6.552	168	359385	50.00	ug/L	0.00

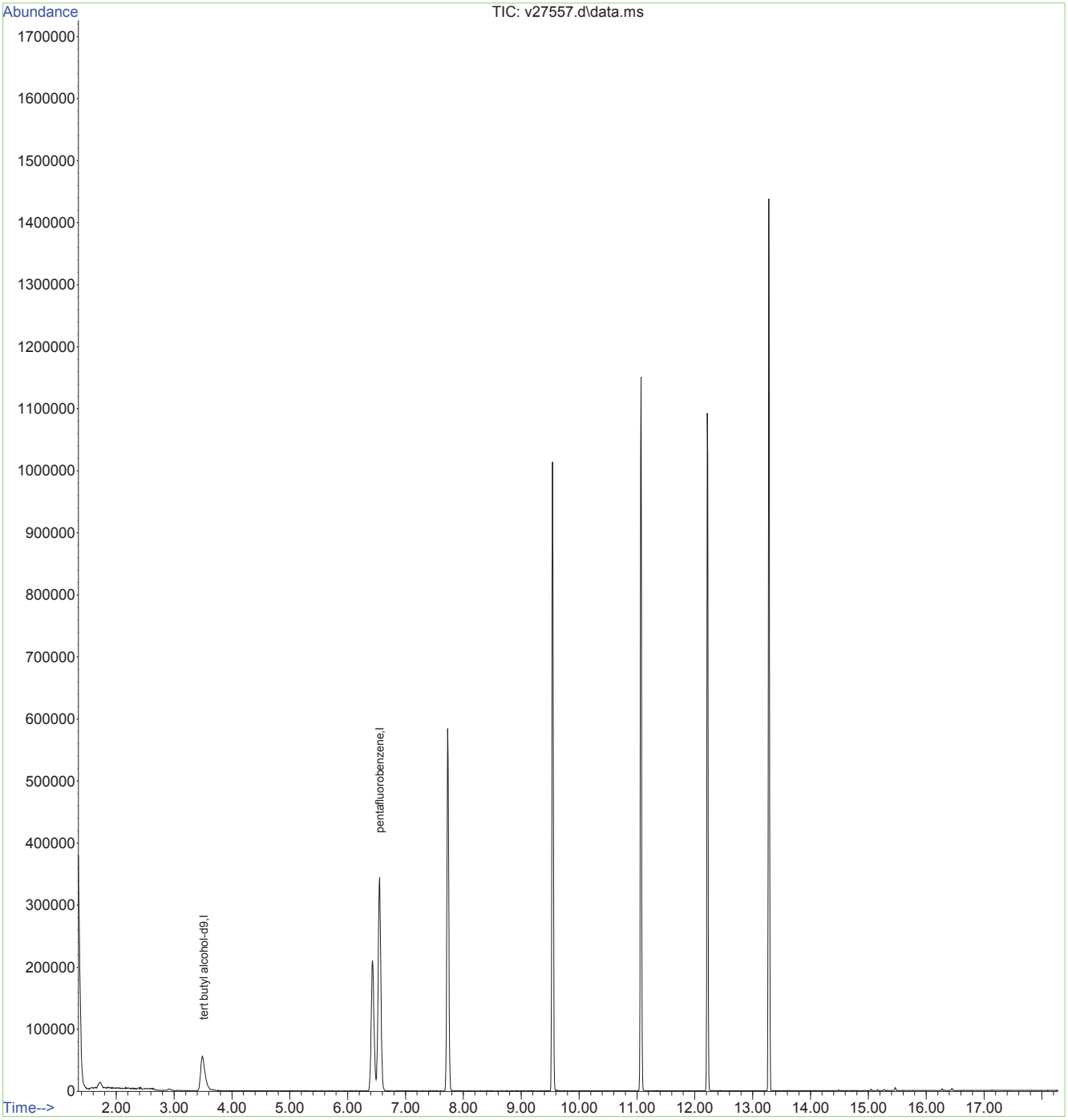
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140203\
Data File : v27557.d
Acq On : 3 Feb 2014 10:55 am
Operator : amym
Sample : mc27954-4
Misc : MS31066,MSV1039,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 19 14:19:22 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140203\
Data File : v27572.d
Acq On : 3 Feb 2014 5:32 pm
Operator : amym
Sample : mc27954-3
Misc : MS31066,MSV1039,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Nov 19 14:25:46 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.514	65	155128	500.00	ug/L	0.00
3) pentafluorobenzene	6.555	168	398866	50.00	ug/L	0.00

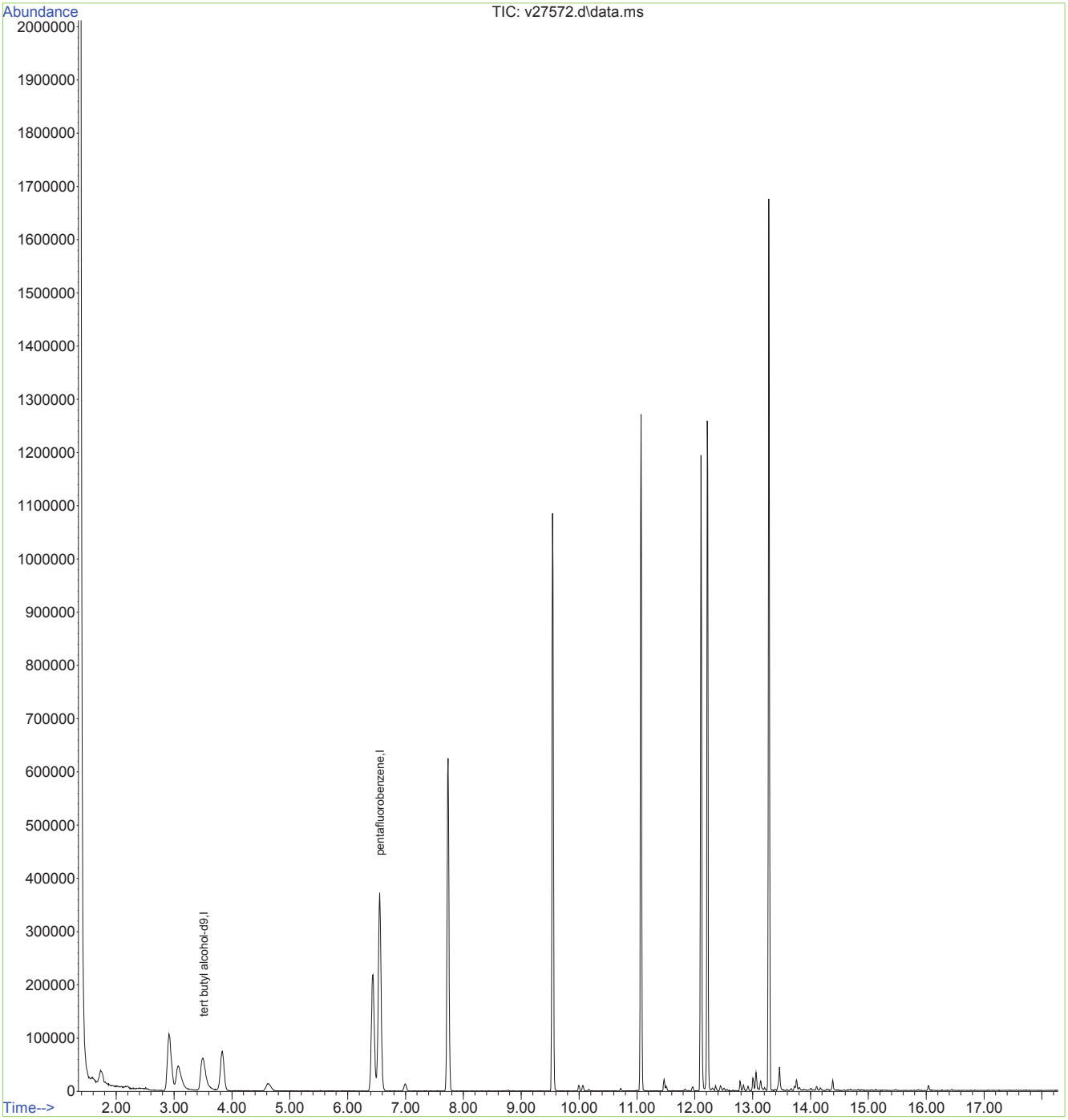
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140203\
Data File : v27572.d
Acq On : 3 Feb 2014 5:32 pm
Operator : amym
Sample : mc27954-3
Misc : MS31066,MSV1039,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Nov 19 14:25:46 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140203\
Data File : v27576.d
Acq On : 3 Feb 2014 7:17 pm
Operator : amym
Sample : mc27954-2
Misc : MS31066,MSV1039,,,,5,1000
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Nov 19 14:27:02 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.512	65	148586	500.00	ug/L	0.00
3) pentafluorobenzene	6.554	168	401640	50.00	ug/L	0.00

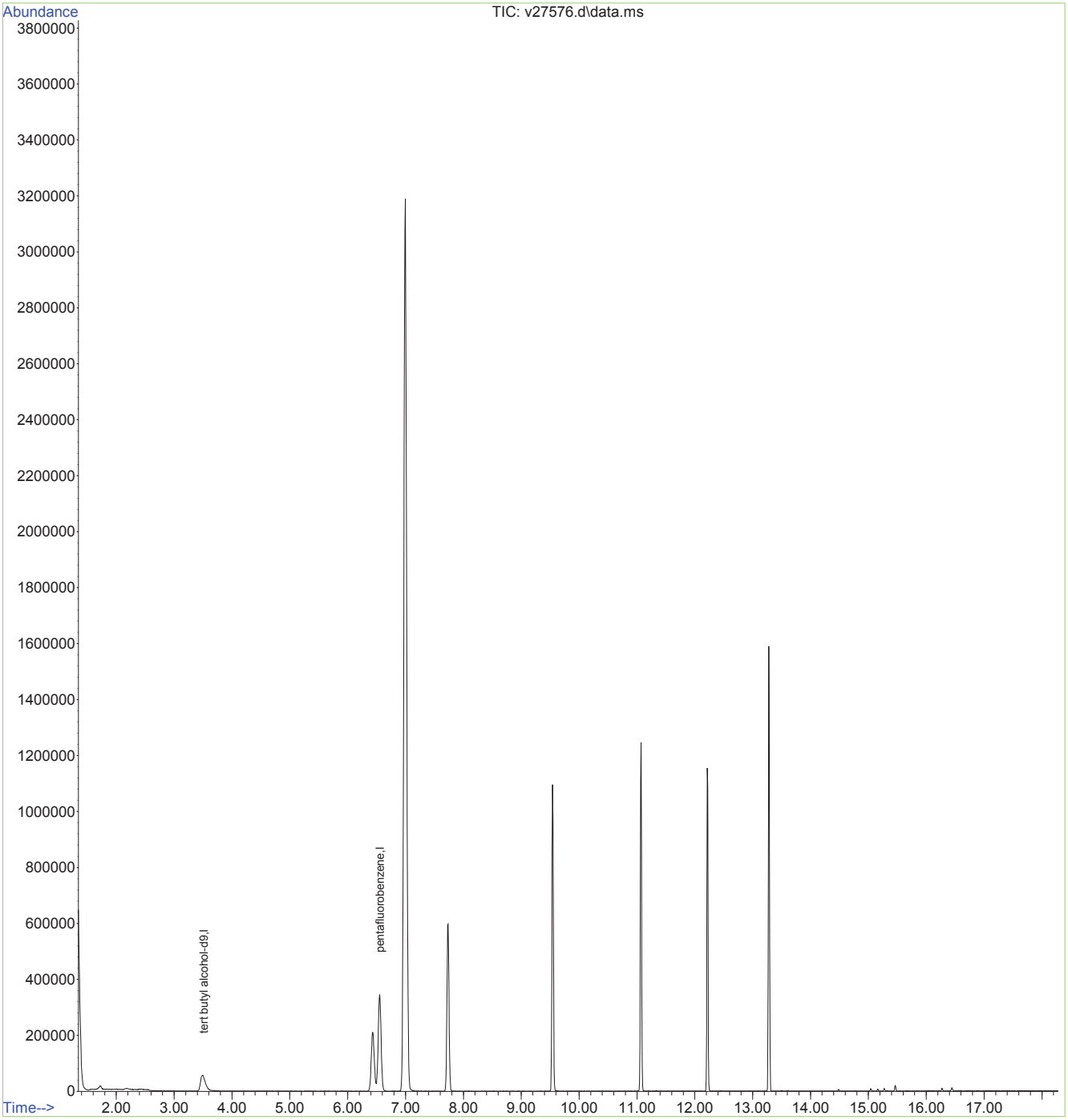
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140203\
Data File : v27576.d
Acq On : 3 Feb 2014 7:17 pm
Operator : amym
Sample : mc27954-2
Misc : MS31066,MSV1039,,,,5,1000
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Nov 19 14:27:02 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140205\
Data File : v27646.d
Acq On : 5 Feb 2014 1:21 pm
Operator : amym
Sample : mc27954-1
Misc : MS31066,MSV1042,,,,5,1000
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 19 21:17:27 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.539	65	154871	500.00	ug/L	0.02
3) pentafluorobenzene	6.588	168	399233	50.00	ug/L	0.03

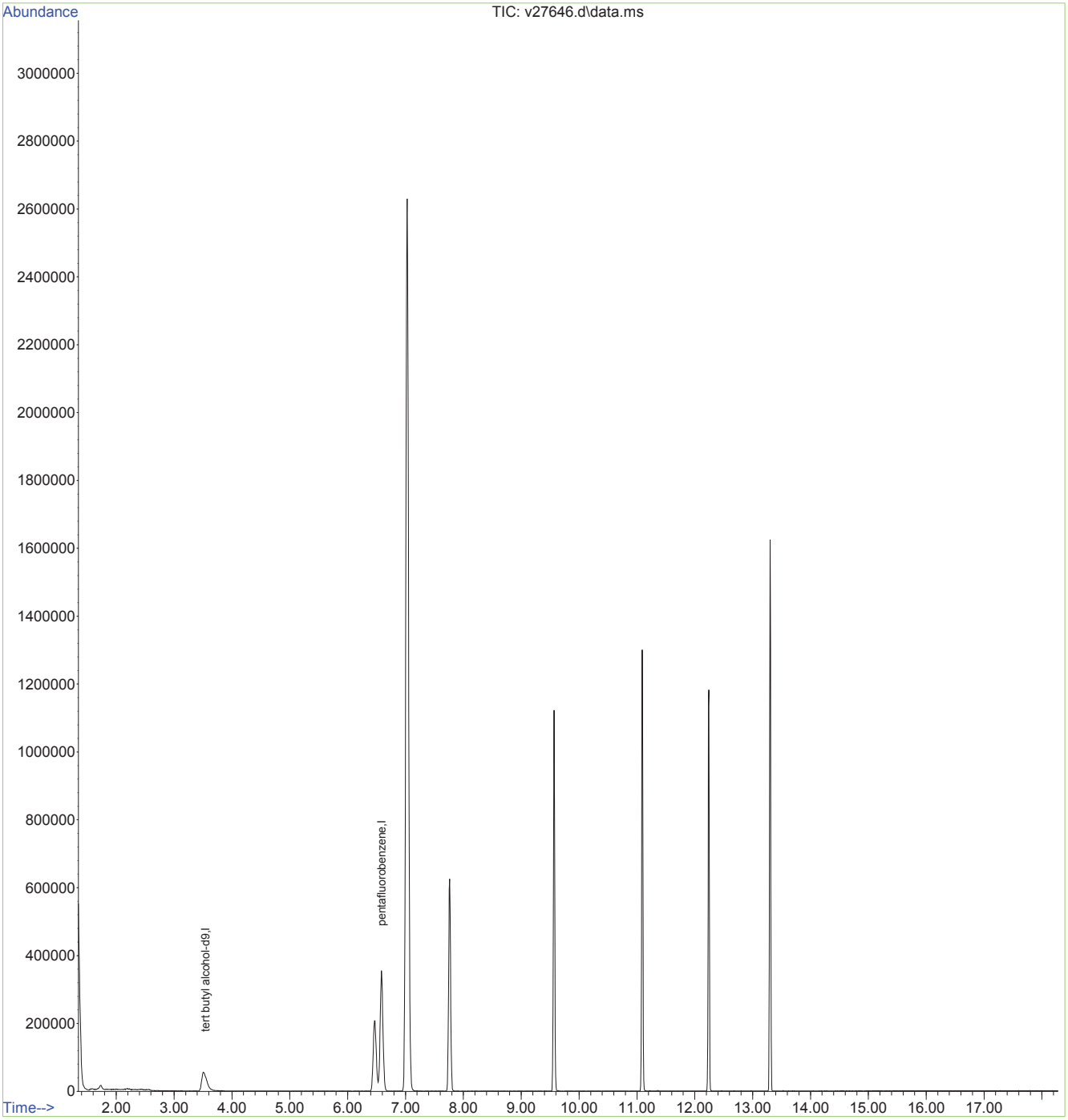
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140205\
Data File : v27646.d
Acq On : 5 Feb 2014 1:21 pm
Operator : amym
Sample : mc27954-1
Misc : MS31066,MSV1042,,,,5,1000
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 19 21:17:27 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140203\
Data File : v27554.d
Acq On : 3 Feb 2014 9:36 am
Operator : amym
Sample : bs
Misc : MS31064,MSV1039,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 19 14:17:44 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

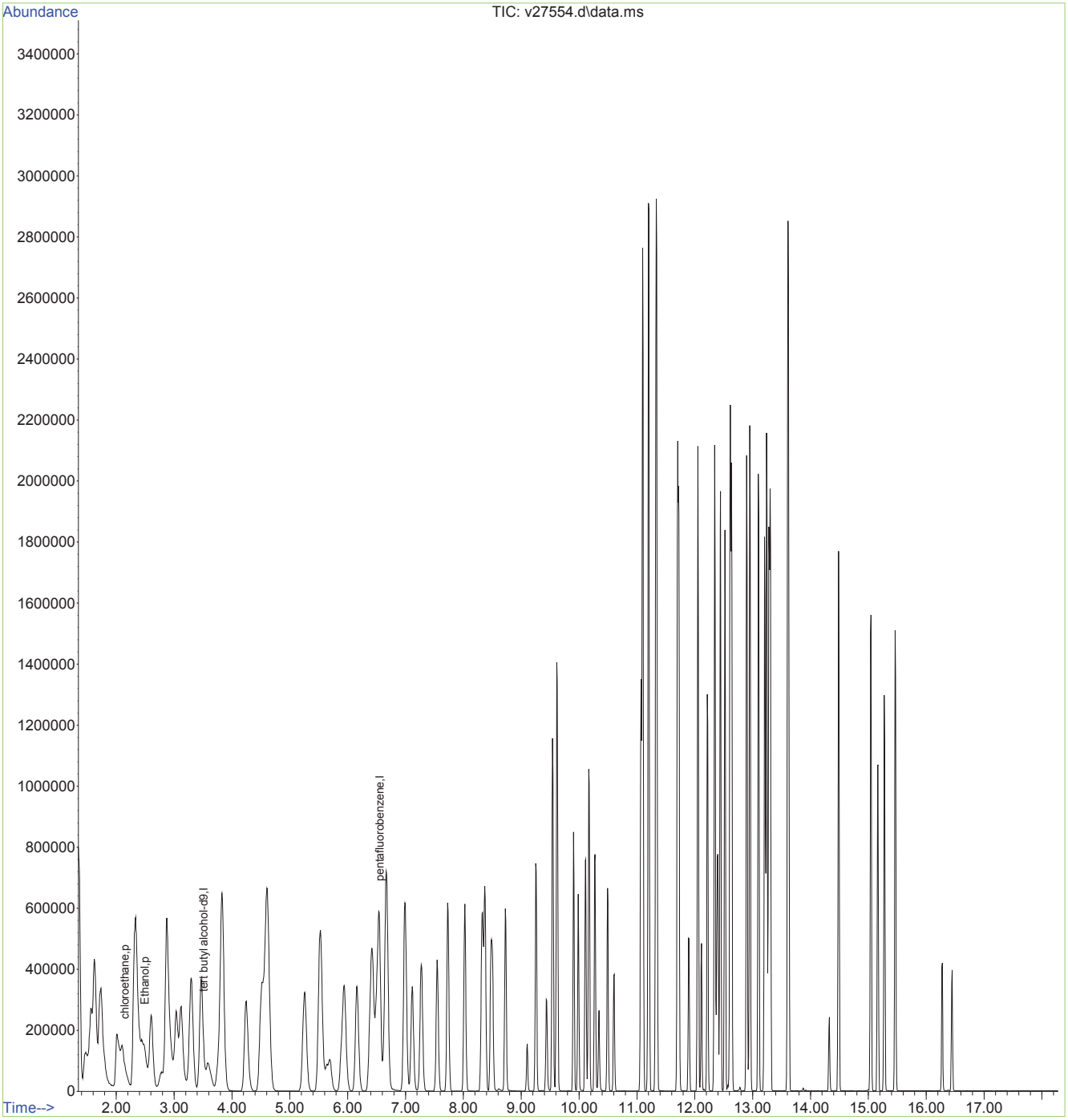
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.504	65	163317	500.00	ug/L	-0.02
3) pentafluorobenzene	6.550	168	465754	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.495	45	173808	6598.68	ug/L #	1
4) chloroethane	2.144	64	244808	68.54	ug/L	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140203\
Data File : v27554.d
Acq On : 3 Feb 2014 9:36 am
Operator : amym
Sample : bs
Misc : MS31064,MSV1039,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 19 14:17:44 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140203\
Data File : v27556.d
Acq On : 3 Feb 2014 10:28 am
Operator : amym
Sample : mb
Misc : MS31066,MSV1039,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 19 14:18:15 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.499	65	142059	500.00	ug/L	-0.02
3) pentafluorobenzene	6.547	168	382183	50.00	ug/L	-0.01

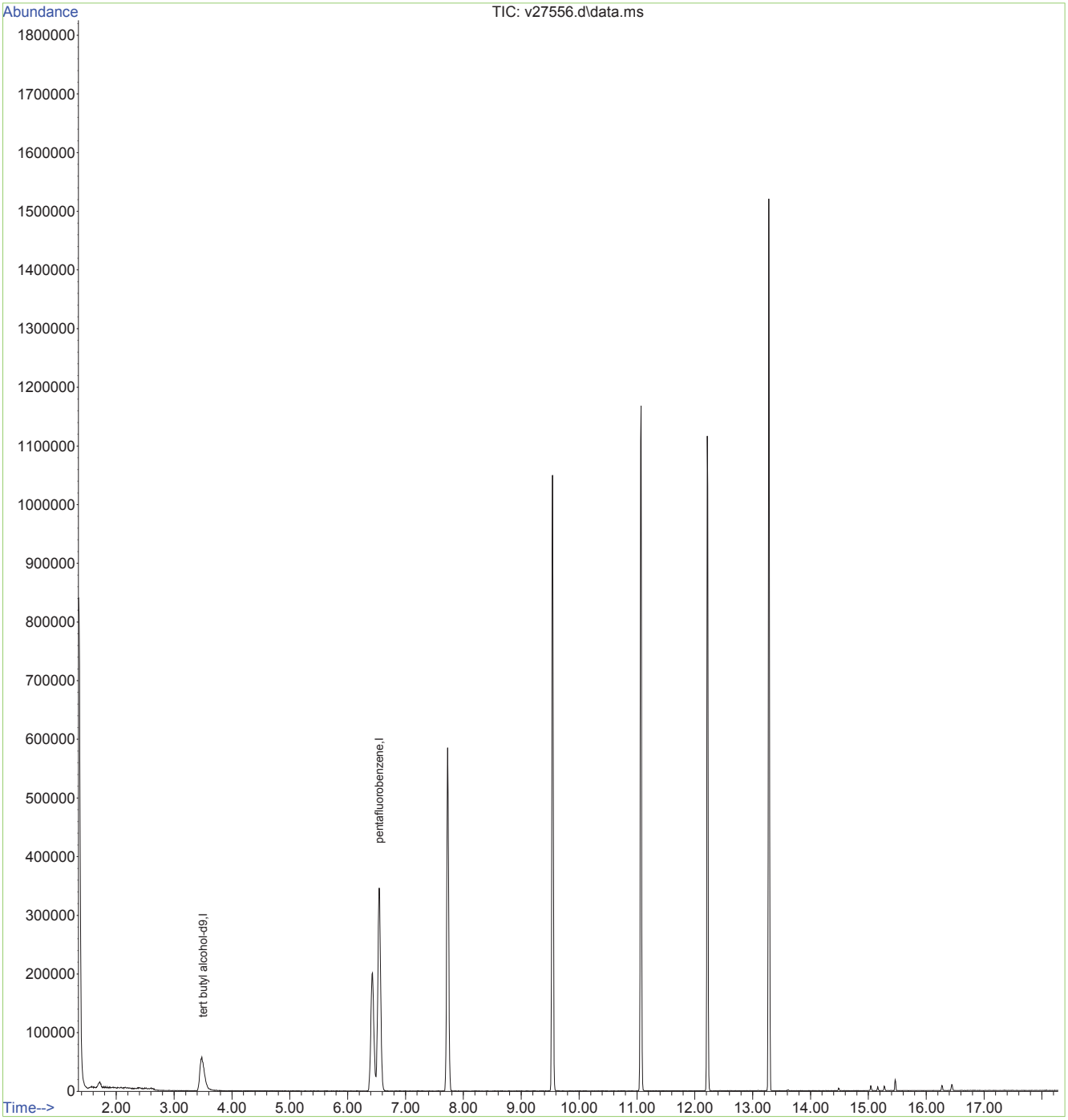
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140203\
Data File : v27556.d
Acq On : 3 Feb 2014 10:28 am
Operator : amym
Sample : mb
Misc : MS31066,MSV1039,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 19 14:18:15 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140203\
Data File : v27573.d
Acq On : 3 Feb 2014 5:59 pm
Operator : amym
Sample : mc28015-6ms
Misc : MS31066,MSV1039,,,,5,5
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Nov 19 14:26:05 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

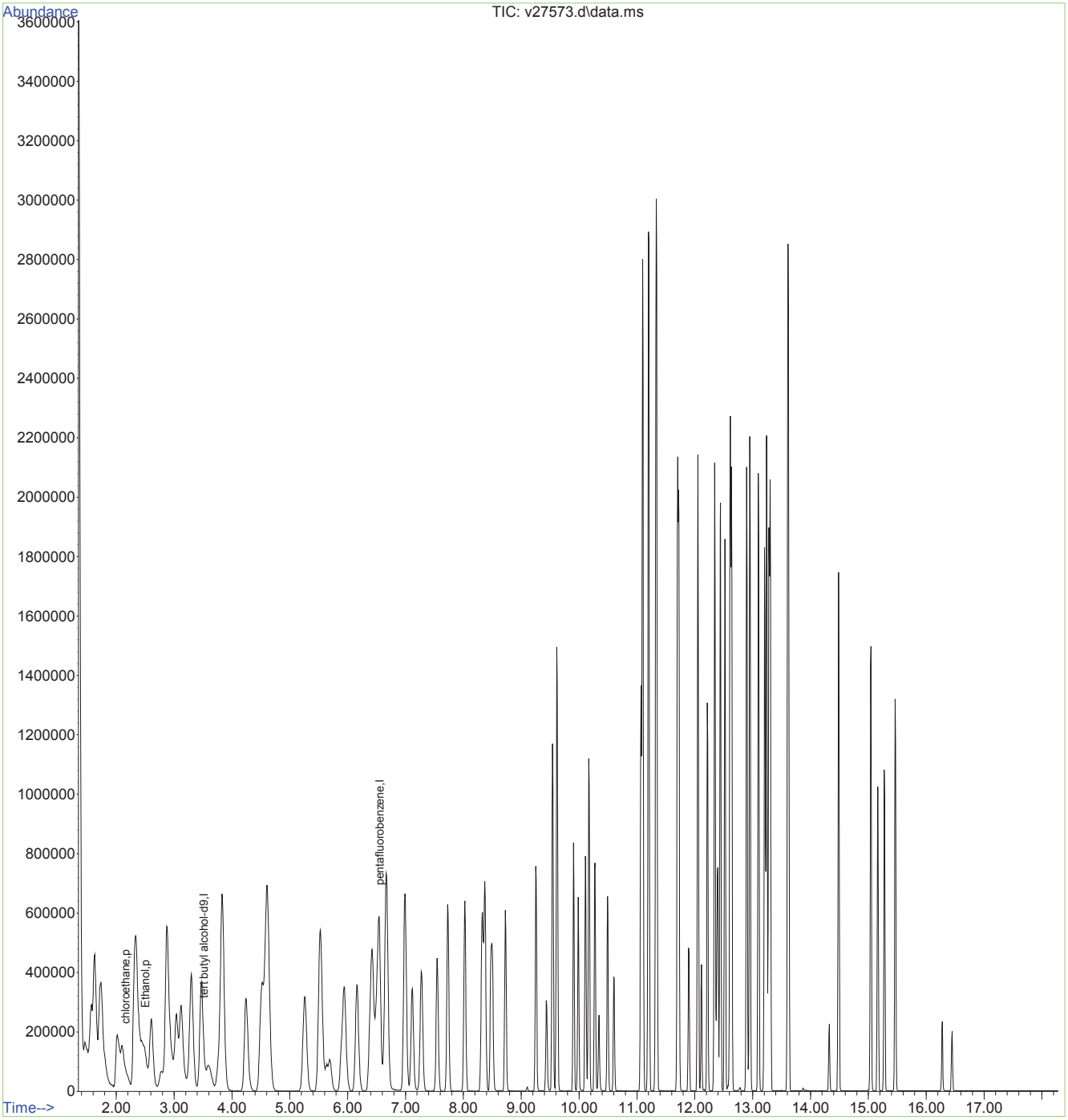
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.515	65	158431	500.00	ug/L	0.00
3) pentafluorobenzene	6.549	168	464226	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.500	45	141306	5452.58	ug/L	# 1
4) chloroethane	2.157	64	259001	72.80	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140203\
Data File : v27573.d
Acq On : 3 Feb 2014 5:59 pm
Operator : amym
Sample : mc28015-6ms
Misc : MS31066,MSV1039,,,,5,5
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Nov 19 14:26:05 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140203\
Data File : v27574.d
Acq On : 3 Feb 2014 6:25 pm
Operator : amym
Sample : mc28015-6msd
Misc : MS31066,MSV1039,,,,5,5
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Nov 19 14:26:40 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

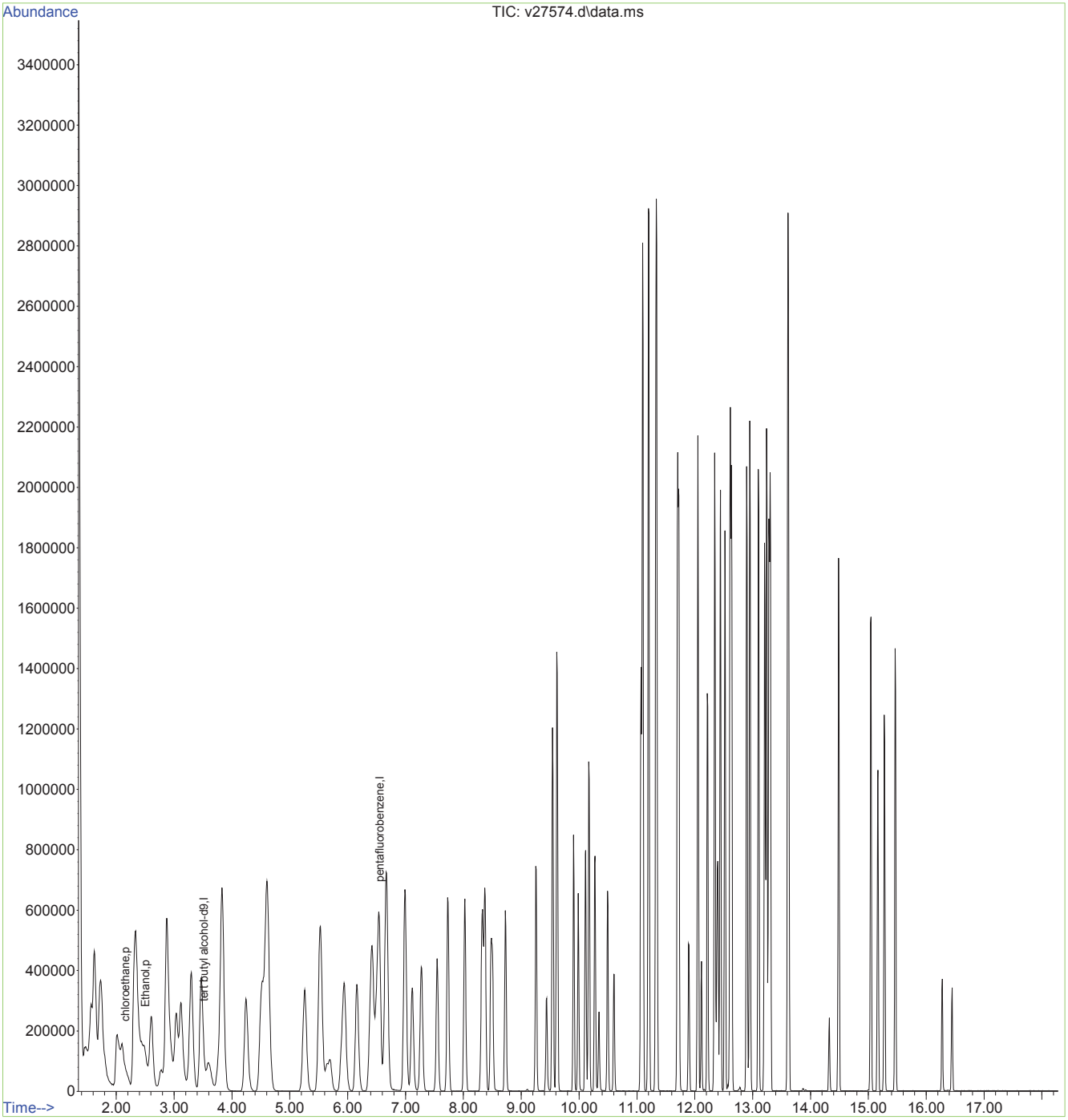
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.512	65	171286	500.00	ug/L	-0.01
3) pentafluorobenzene	6.549	168	479889	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.500	45	166946	6002.95	ug/L	# 1
4) chloroethane	2.150	64	255108	69.33	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140203\
Data File : v27574.d
Acq On : 3 Feb 2014 6:25 pm
Operator : amym
Sample : mc28015-6msd
Misc : MS31066,MSV1039,,,,5,5
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Nov 19 14:26:40 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140205\
Data File : v27638.d
Acq On : 5 Feb 2014 9:49 am
Operator : amym
Sample : bs
Misc : MS31082,MSV1042,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 19 21:15:14 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

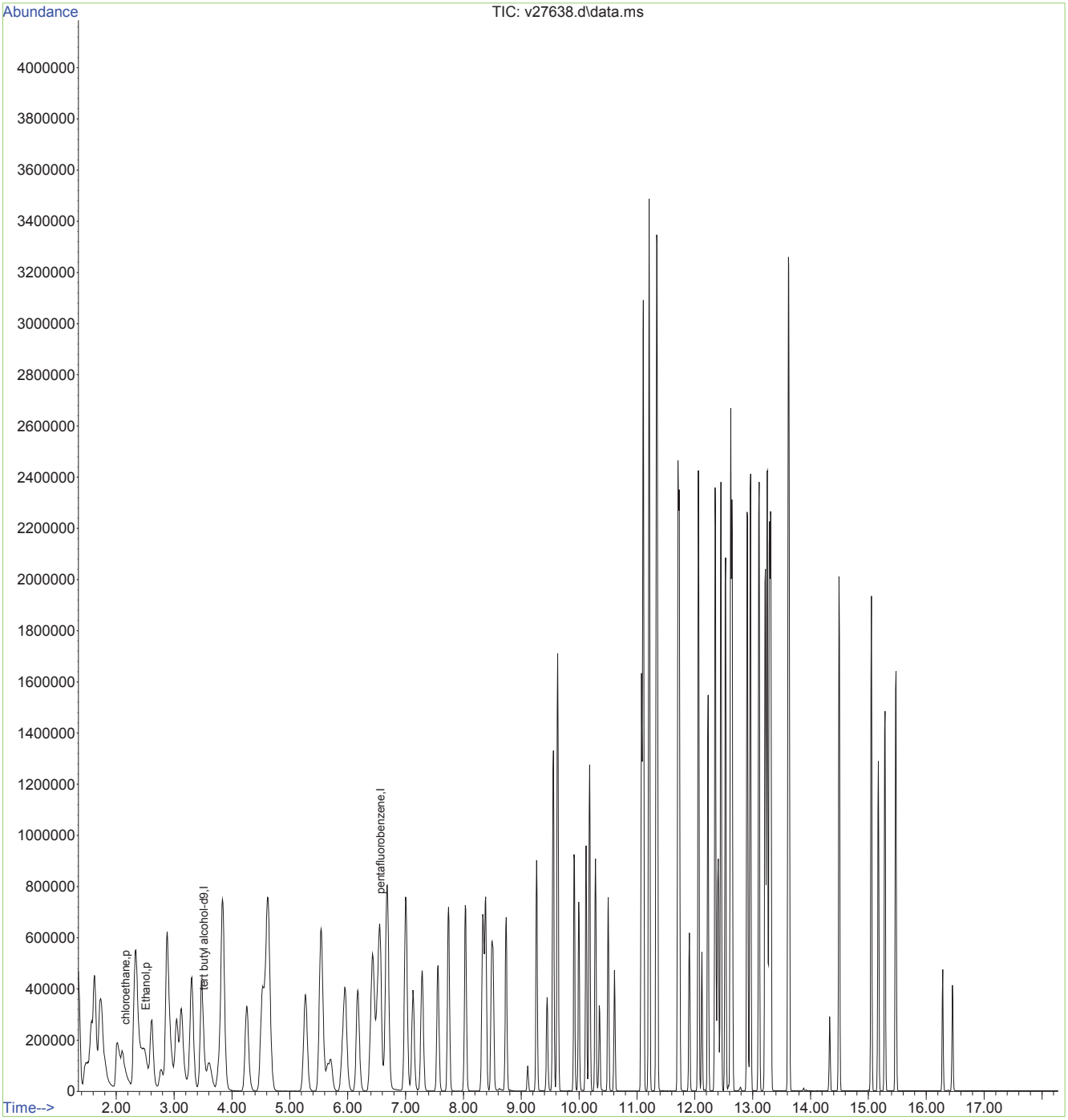
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.516	65	204204	500.00	ug/L	0.00
3) pentafluorobenzene	6.563	168	555130	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.507	45	199516	6018.78	ug/L	# 1
4) chloroethane	2.158	64	270112	63.38	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140205\
Data File : v27638.d
Acq On : 5 Feb 2014 9:49 am
Operator : amym
Sample : bs
Misc : MS31082,MSV1042,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 19 21:15:14 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140205\
Data File : v27639.d
Acq On : 5 Feb 2014 10:16 am
Operator : amym
Sample : bsd
Misc : MS31082,MSV1042,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 19 21:15:35 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

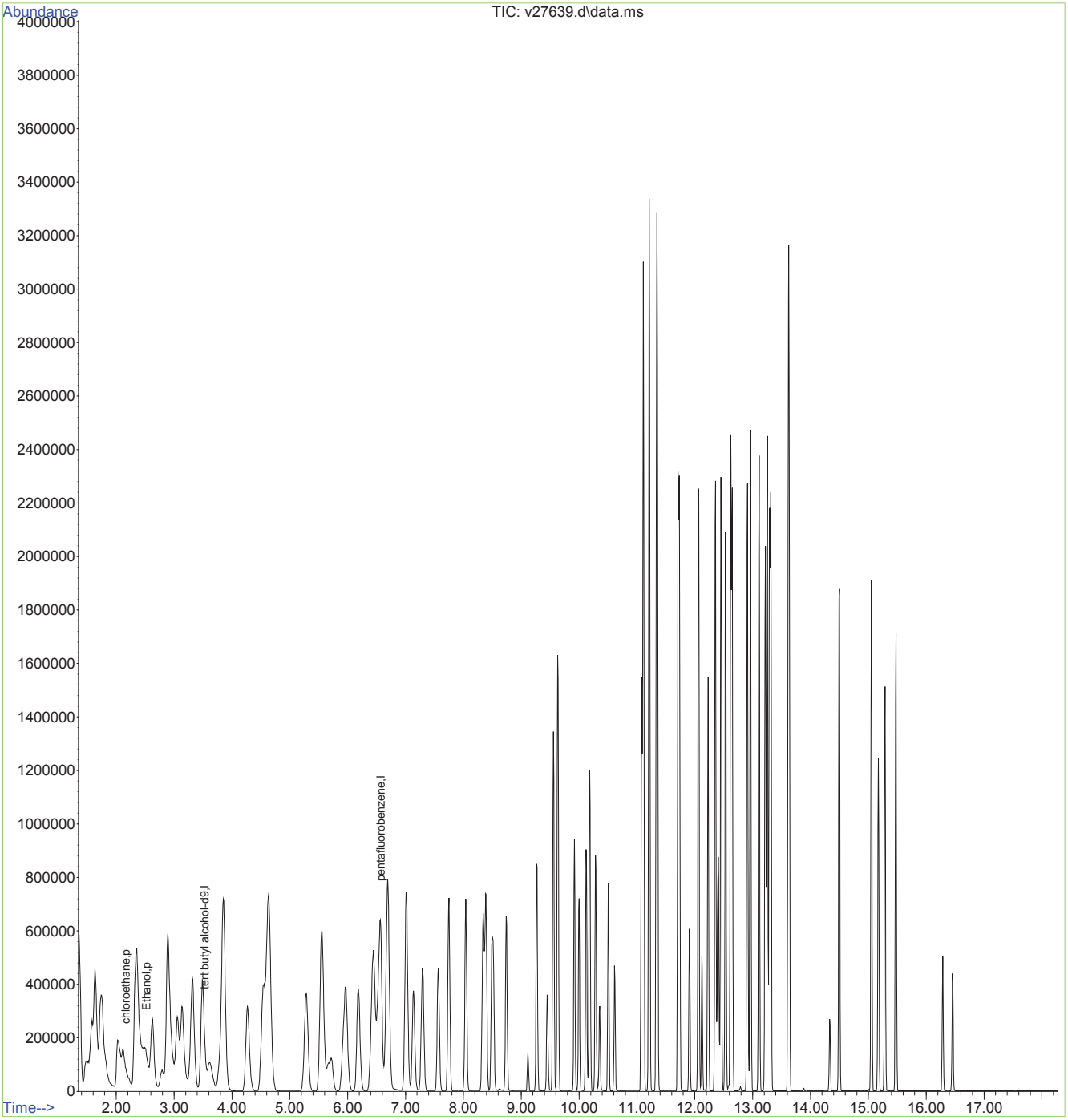
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.526	65	199054	500.00	ug/L	0.00
3) pentafluorobenzene	6.573	168	538538	50.00	ug/L	0.01
Target Compounds						Qvalue
2) Ethanol	2.520	45	201579	6255.82	ug/L	# 1
4) chloroethane	2.166	64	258668	62.55	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140205\
Data File : v27639.d
Acq On : 5 Feb 2014 10:16 am
Operator : amym
Sample : bsd
Misc : MS31082,MSV1042,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 19 21:15:35 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140205\
Data File : v27641.d
Acq On : 5 Feb 2014 11:09 am
Operator : amym
Sample : mb
Misc : MS31066,MSV1042,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 19 21:15:55 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.535	65	173323	500.00	ug/L	0.01
3) pentafluorobenzene	6.580	168	449418	50.00	ug/L	0.02

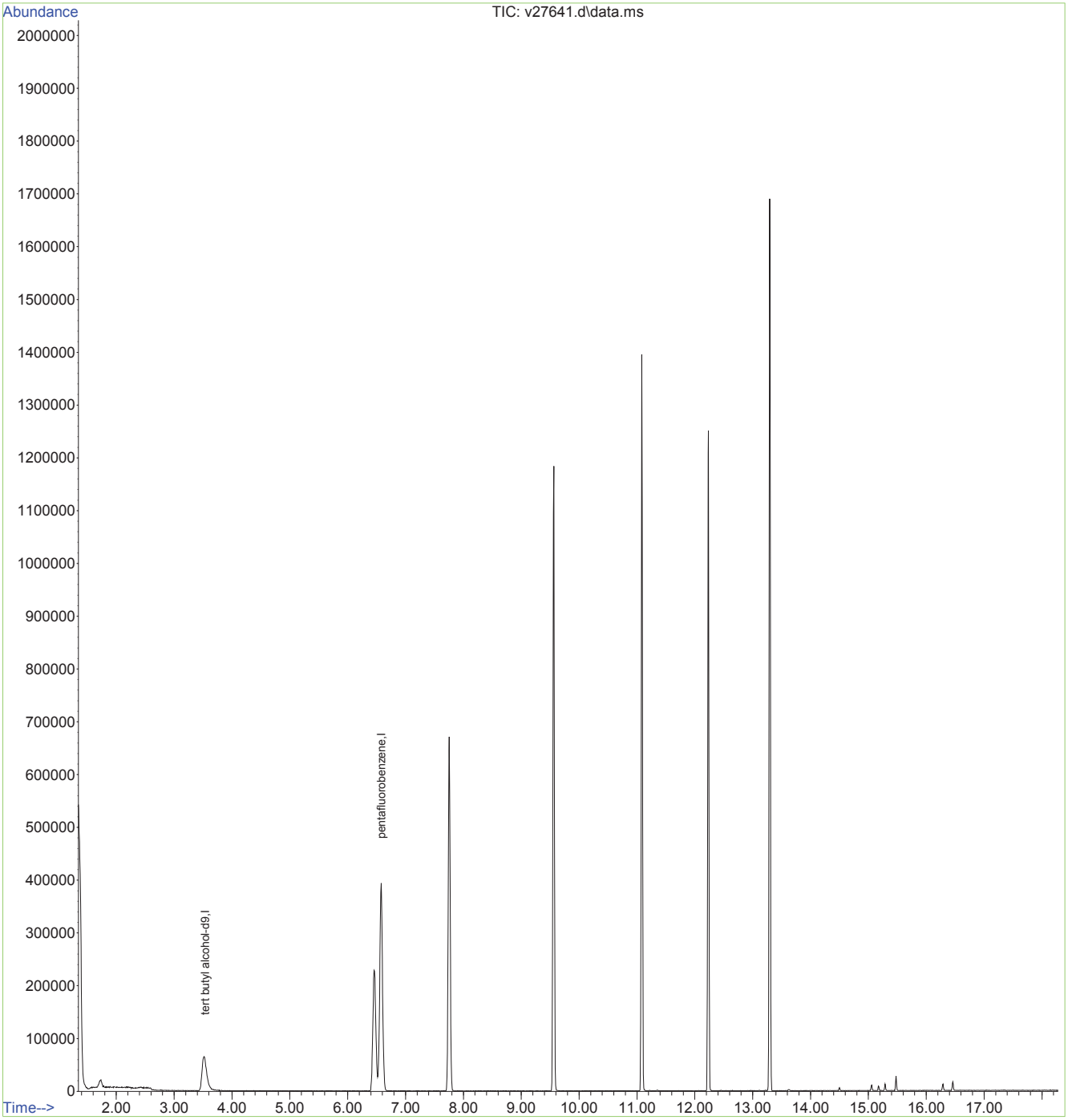
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140205\
Data File : v27641.d
Acq On : 5 Feb 2014 11:09 am
Operator : amym
Sample : mb
Misc : MS31066,MSV1042,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 19 21:15:55 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140205\
Data File : v27653.d
Acq On : 5 Feb 2014 4:25 pm
Operator : amym
Sample : mc28049-3ms
Misc : MS31075,MSV1042,,,,5,5
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 19 21:21:08 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

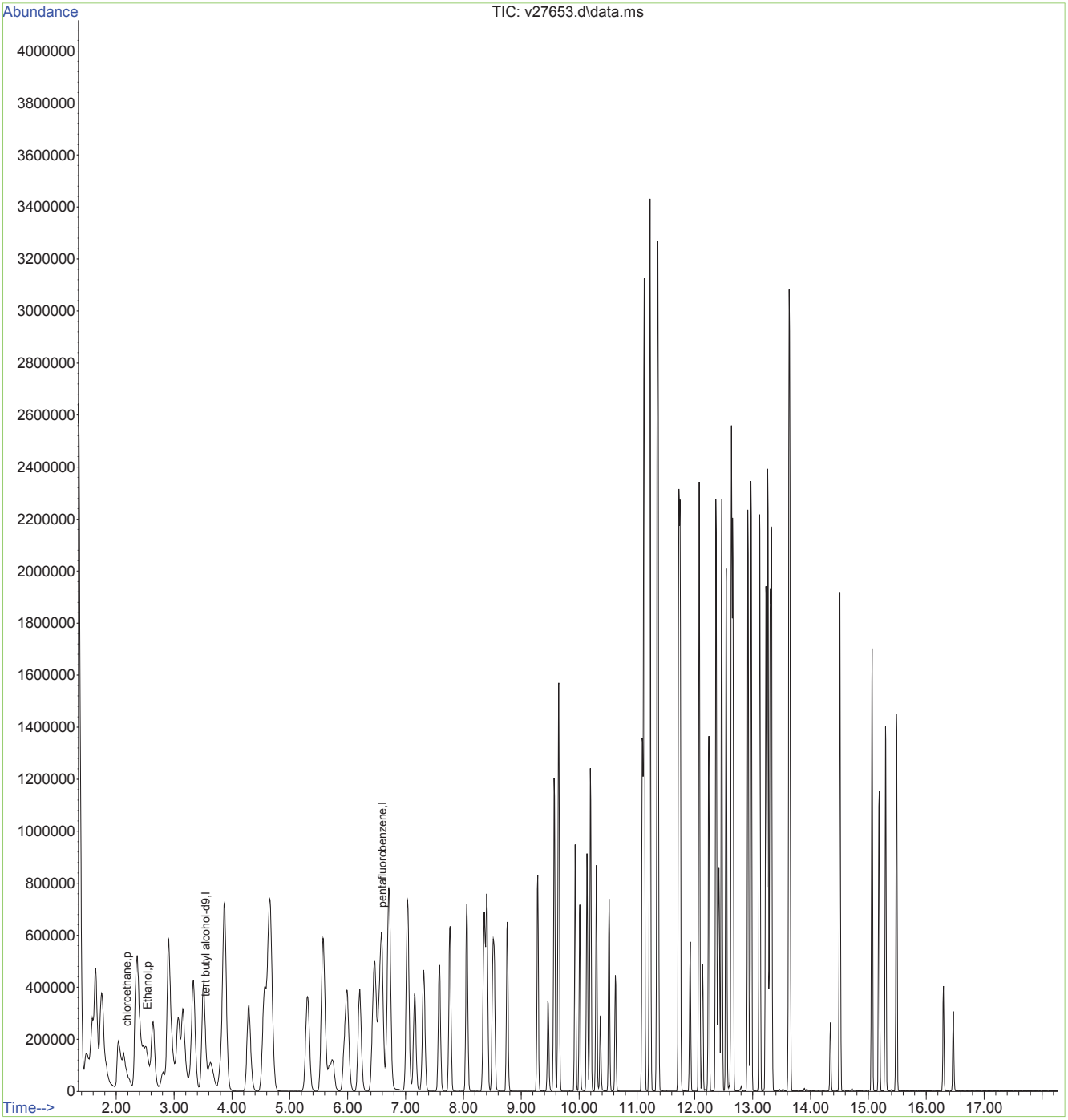
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.546	65	191168	500.00	ug/L	0.02
3) pentafluorobenzene	6.595	168	488825	50.00	ug/L	0.04
Target Compounds						Qvalue
2) Ethanol	2.533	45	220633	7196.54	ug/L	# 1
4) chloroethane	2.179	64	251909	67.18	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140205\
Data File : v27653.d
Acq On : 5 Feb 2014 4:25 pm
Operator : amym
Sample : mc28049-3ms
Misc : MS31075,MSV1042,,,,5,5
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 19 21:21:08 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140205\
Data File : v27654.d
Acq On : 5 Feb 2014 4:51 pm
Operator : amym
Sample : mc28049-3msd
Misc : MS31075,MSV1042,,,,5,5
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Nov 19 21:21:25 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

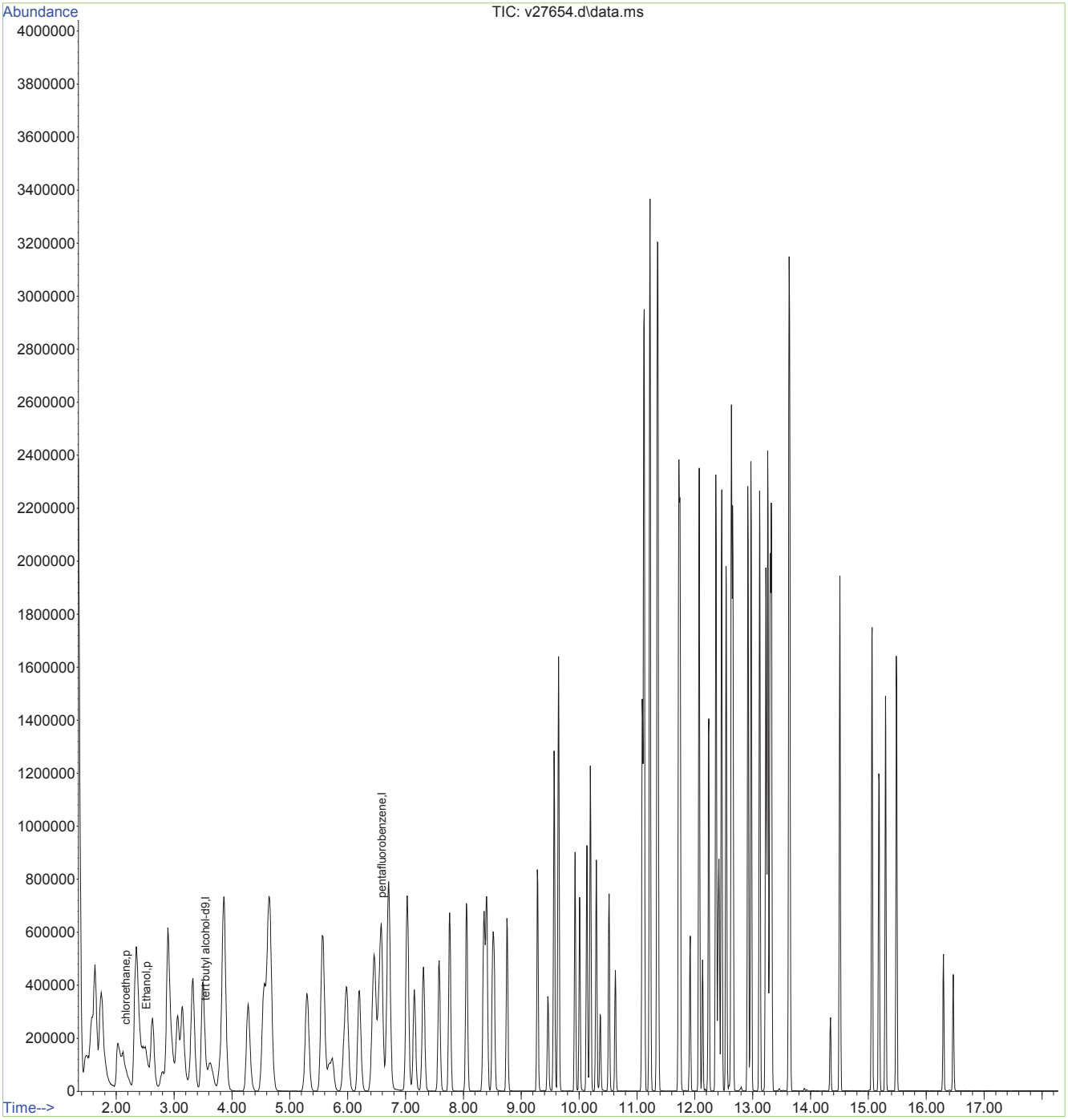
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.539	65	202241	500.00	ug/L	0.02
3) pentafluorobenzene	6.588	168	509603	50.00	ug/L	0.03
Target Compounds						Qvalue
2) Ethanol	2.521	45	211804	6485.94	ug/L	# 1
4) chloroethane	2.166	64	249853	63.87	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140205\
Data File : v27654.d
Acq On : 5 Feb 2014 4:51 pm
Operator : amym
Sample : mc28049-3msd
Misc : MS31075,MSV1042,,,,5,5
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Nov 19 21:21:25 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Internal Sample Tracking Chronicle

Shell Oil

Job No: MC27954

URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC27954-1 Collected: 28-JAN-14 10:35 By: DMMM Received: 29-JAN-14 By: P93B-ROX-012814						
MC27954-1	SW846 8270D	31-JAN-14 18:27	KR	29-JAN-14	MEW	AB8270SL+
MC27954-1	SW846 8270D BY SIM	31-JAN-14 18:32	KR	29-JAN-14	MEW	B8270SIMSL
MC27954-1	SW846 8011	31-JAN-14 20:43	NK	30-JAN-14	MT	V8011SL
MC27954-1	SW846 8260C	05-FEB-14 13:21	AMY			V8260SL+
MC27954-2 Collected: 28-JAN-14 10:35 By: DMMM Received: 29-JAN-14 By: P93B-ROX-012814-DUP						
MC27954-2	SW846 8270D	31-JAN-14 18:51	KR	29-JAN-14	MEW	AB8270SL+
MC27954-2	SW846 8270D BY SIM	31-JAN-14 18:54	KR	29-JAN-14	MEW	B8270SIMSL
MC27954-2	SW846 8011	31-JAN-14 21:06	NK	30-JAN-14	MT	V8011SL
MC27954-2	SW846 8260C	03-FEB-14 19:17	AMY			V8260SL+
MC27954-3 Collected: 28-JAN-14 16:25 By: DMMM Received: 29-JAN-14 By: P114-ROX-012814						
MC27954-3	SW846 8270D	31-JAN-14 19:15	KR	29-JAN-14	MEW	AB8270SL+
MC27954-3	SW846 8270D BY SIM	31-JAN-14 19:17	KR	29-JAN-14	MEW	B8270SIMSL
MC27954-3	SW846 8011	31-JAN-14 21:28	NK	30-JAN-14	MT	V8011SL
MC27954-3	SW846 8260C	03-FEB-14 17:32	AMY			V8260SL+
MC27954-4 Collected: 28-JAN-14 00:00 By: DMMM Received: 29-JAN-14 By: TB-ROX-012814-HCL						
MC27954-4	SW846 8260C	03-FEB-14 10:55	AMY			V8260SL+
MC27954-5 Collected: 28-JAN-14 00:00 By: DMMM Received: 29-JAN-14 By: TB-ROX-012814-ST						
MC27954-5	SW846 8011	31-JAN-14 21:51	NK	30-JAN-14	MT	V8011SL

SGS Accutest Internal Chain of Custody

Job Number: MC27954
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL
Received: 01/29/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC27954-1.2	Walk In Ref #22	Thomas Abruzzise	01/29/14 14:45	Retrieve from Storage
MC27954-1.2	Scott Parsick		03/25/14 11:35	Disposed
MC27954-1.3	VOC Ref #3	Amy Min Yang	01/31/14 14:25	Retrieve from Storage
MC27954-1.3	Amy Min Yang	GCMSP	01/31/14 14:25	Load on Instrument
MC27954-1.3	GCMSP	Krysten Dufort	02/03/14 09:59	Unload from Instrument
MC27954-1.3	Krysten Dufort	VOC Ref #3	02/03/14 10:00	Return to Storage
MC27954-1.3	Scott Parsick		03/25/14 11:35	Disposed
MC27954-1.4	VOC Ref #3	Amy Min Yang	02/03/14 10:15	Retrieve from Storage
MC27954-1.4	Amy Min Yang	GCMSV	02/03/14 10:15	Load on Instrument
MC27954-1.4	GCMSV	Amy Min Yang	02/05/14 10:17	Unload from Instrument
MC27954-1.4	Amy Min Yang	VOC Ref #3	02/05/14 10:17	Return to Storage
MC27954-1.4	VOC Ref #3	Amy Min Yang	02/05/14 10:36	Retrieve from Storage
MC27954-1.4	Amy Min Yang	GCMSV	02/05/14 10:37	Load on Instrument
MC27954-1.4	GCMSV	Amy Min Yang	02/07/14 17:08	Unload from Instrument
MC27954-1.4	Amy Min Yang	VOC Ref #3	02/07/14 17:08	Return to Storage
MC27954-1.4	Scott Parsick		03/25/14 11:35	Disposed
MC27954-1.6	VOC Ref #3	Marc Tahtamoni	01/30/14 14:15	Retrieve from Storage
MC27954-1.6	Marc Tahtamoni		02/27/14 22:07	Depleted
MC27954-2.1	Walk In Ref #22	Thomas Abruzzise	01/29/14 14:45	Retrieve from Storage
MC27954-2.1	Scott Parsick		03/25/14 11:35	Disposed
MC27954-2.3	VOC Ref #3	Amy Min Yang	02/03/14 10:15	Retrieve from Storage
MC27954-2.3	Amy Min Yang	GCMSV	02/03/14 10:15	Load on Instrument
MC27954-2.3	GCMSV	Amy Min Yang	02/05/14 10:17	Unload from Instrument
MC27954-2.3	Amy Min Yang	VOC Ref #3	02/05/14 10:17	Return to Storage
MC27954-2.3	Scott Parsick		03/25/14 11:35	Disposed
MC27954-2.4	VOC Ref #3	Amy Min Yang	01/31/14 14:25	Retrieve from Storage
MC27954-2.4	Amy Min Yang	GCMSP	01/31/14 14:25	Load on Instrument
MC27954-2.4	GCMSP	Krysten Dufort	02/03/14 09:59	Unload from Instrument
MC27954-2.4	Krysten Dufort	VOC Ref #3	02/03/14 10:00	Return to Storage
MC27954-2.4	Scott Parsick		03/25/14 11:35	Disposed
MC27954-2.5	VOC Ref #3	Marc Tahtamoni	01/30/14 14:15	Retrieve from Storage
MC27954-2.5	Marc Tahtamoni		02/27/14 22:07	Depleted
MC27954-3.2	Walk In Ref #22	Thomas Abruzzise	01/29/14 14:45	Retrieve from Storage
MC27954-3.2	Scott Parsick		03/25/14 11:35	Disposed
MC27954-3.3	VOC Ref #3	Amy Min Yang	01/31/14 14:25	Retrieve from Storage

SGS Accutest Internal Chain of Custody

Job Number: MC27954
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL
Received: 01/29/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC27954-3.3	Amy Min Yang	GCMSP	01/31/14 14:25	Load on Instrument
MC27954-3.3	GCMSP	Krysten Dufort	02/03/14 09:59	Unload from Instrument
MC27954-3.3	Krysten Dufort	VOC Ref #3	02/03/14 10:00	Return to Storage
MC27954-3.3	Scott Parsick		03/25/14 11:35	Disposed
MC27954-3.4	VOC Ref #3	Amy Min Yang	02/03/14 10:15	Retrieve from Storage
MC27954-3.4	Amy Min Yang	GCMSV	02/03/14 10:15	Load on Instrument
MC27954-3.4	GCMSV	Amy Min Yang	02/05/14 10:17	Unload from Instrument
MC27954-3.4	Amy Min Yang	VOC Ref #3	02/05/14 10:17	Return to Storage
MC27954-3.4	Scott Parsick		03/25/14 11:35	Disposed
MC27954-3.5	VOC Ref #3	Marc Tahtamoni	01/30/14 14:15	Retrieve from Storage
MC27954-3.5	Marc Tahtamoni		02/27/14 22:07	Depleted
MC27954-4.1	VOC Ref #3	Amy Min Yang	02/03/14 10:15	Retrieve from Storage
MC27954-4.1	Amy Min Yang	GCMSV	02/03/14 10:15	Load on Instrument
MC27954-4.1	GCMSV	Amy Min Yang	02/05/14 10:17	Unload from Instrument
MC27954-4.1	Amy Min Yang	VOC Ref #3	02/05/14 10:17	Return to Storage
MC27954-4.1	Scott Parsick		03/25/14 11:35	Disposed
MC27954-5.2	VOC Ref #3	Marc Tahtamoni	01/30/14 14:15	Retrieve from Storage
MC27954-5.2	Marc Tahtamoni		02/27/14 22:07	Depleted

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC27954
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1039-MB	V27556.D	1	02/03/14	AMY	n/a	n/a	MSV1039

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27954-2, MC27954-3, MC27954-4

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	

Method Blank Summary

Job Number: MC27954
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1039-MB	V27556.D	1	02/03/14	AMY	n/a	n/a	MSV1039

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27954-2, MC27954-3, MC27954-4

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
123-91-1	1,4-Dioxane	ND	25	16	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.70	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

Method Blank Summary

Job Number: MC27954
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1039-MB	V27556.D	1	02/03/14	AMY	n/a	n/a	MSV1039

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27954-2, MC27954-3, MC27954-4

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	107%	70-130%
2037-26-5	Toluene-D8	99%	70-130%
460-00-4	4-Bromofluorobenzene	105%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: MC27954
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1042-MB	V27641.D	1	02/05/14	AMY	n/a	n/a	MSV1042

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27954-1

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	

Method Blank Summary

Job Number: MC27954
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1042-MB	V27641.D	1	02/05/14	AMY	n/a	n/a	MSV1042

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27954-1

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
123-91-1	1,4-Dioxane	ND	25	16	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.70	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

Method Blank Summary

Job Number: MC27954
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1042-MB	V27641.D	1	02/05/14	AMY	n/a	n/a	MSV1042

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27954-1

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	104%	70-130%
2037-26-5	Toluene-D8	99%	70-130%
460-00-4	4-Bromofluorobenzene	103%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Job Number: MC27954
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1039-BS	V27554.D	1	02/03/14	AMY	n/a	n/a	MSV1039

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27954-2, MC27954-3, MC27954-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	35.6	71	70-130
107-02-8	Acrolein	50	52.6	105	70-130
107-13-1	Acrylonitrile	100	88.7	89	70-130
71-43-2	Benzene	50	53.7	107	70-130
108-86-1	Bromobenzene	50	49.9	100	70-130
74-97-5	Bromochloromethane	50	54.2	108	70-130
75-27-4	Bromodichloromethane	50	60.2	120	70-130
75-25-2	Bromoform	50	43.6	87	70-130
74-83-9	Bromomethane	50	54.3	109	70-130
78-93-3	2-Butanone (MEK)	50	38.5	77	70-130
104-51-8	n-Butylbenzene	50	54.4	109	70-130
135-98-8	sec-Butylbenzene	50	55.0	110	70-130
98-06-6	tert-Butylbenzene	50	56.6	113	70-130
75-15-0	Carbon disulfide	50	49.7	99	70-130
56-23-5	Carbon tetrachloride	50	63.8	128	70-130
108-90-7	Chlorobenzene	50	44.3	89	70-130
75-00-3	Chloroethane	50	68.5	137*	70-130
110-75-8	2-Chloroethyl vinyl ether	50	266	532* [a]	70-130
67-66-3	Chloroform	50	54.1	108	70-130
74-87-3	Chloromethane	50	57.4	115	70-130
95-49-8	o-Chlorotoluene	50	49.9	100	70-130
106-43-4	p-Chlorotoluene	50	51.7	103	70-130
124-48-1	Dibromochloromethane	50	55.4	111	70-130
95-50-1	1,2-Dichlorobenzene	50	46.4	93	70-130
541-73-1	1,3-Dichlorobenzene	50	47.2	94	70-130
106-46-7	1,4-Dichlorobenzene	50	47.2	94	70-130
75-71-8	Dichlorodifluoromethane	50	67.0	134* [b]	70-130
75-34-3	1,1-Dichloroethane	50	55.7	111	70-130
107-06-2	1,2-Dichloroethane	50	58.0	116	70-130
75-35-4	1,1-Dichloroethene	50	55.6	111	70-130
156-59-2	cis-1,2-Dichloroethene	50	53.9	108	70-130
156-60-5	trans-1,2-Dichloroethene	50	54.0	108	70-130
78-87-5	1,2-Dichloropropane	50	52.7	105	70-130
142-28-9	1,3-Dichloropropane	50	48.7	97	70-130
594-20-7	2,2-Dichloropropane	50	69.3	139* [b]	70-130
563-58-6	1,1-Dichloropropene	50	56.4	113	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC27954
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1039-BS	V27554.D	1	02/03/14	AMY	n/a	n/a	MSV1039

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27954-2, MC27954-3, MC27954-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	50	51.2	102	70-130
10061-02-6	trans-1,3-Dichloropropene	50	53.7	107	70-130
123-91-1	1,4-Dioxane	250	227	91	70-130
97-63-2	Ethyl methacrylate	50	48.8	98	77-137
100-41-4	Ethylbenzene	50	50.9	102	70-130
87-68-3	Hexachlorobutadiene	50	56.6	113	70-130
591-78-6	2-Hexanone	50	37.6	75	70-130
98-82-8	Isopropylbenzene	50	56.4	113	70-130
99-87-6	p-Isopropyltoluene	50	53.8	108	70-130
1634-04-4	Methyl Tert Butyl Ether	50	61.7	123	70-130
108-10-1	4-Methyl-2-pentanone (MIBK)	50	56.3	113	70-130
74-95-3	Methylene bromide	50	55.1	110	70-130
75-09-2	Methylene chloride	50	50.4	101	70-130
91-20-3	Naphthalene	50	52.6	105	70-130
103-65-1	n-Propylbenzene	50	53.5	107	70-130
100-42-5	Styrene	50	46.4	93	70-130
630-20-6	1,1,1,2-Tetrachloroethane	50	51.9	104	70-130
79-34-5	1,1,2,2-Tetrachloroethane	50	49.1	98	70-130
127-18-4	Tetrachloroethene	50	51.2	102	70-130
108-88-3	Toluene	50	57.4	115	70-130
87-61-6	1,2,3-Trichlorobenzene	50	59.1	118	70-130
120-82-1	1,2,4-Trichlorobenzene	50	58.5	117	70-130
71-55-6	1,1,1-Trichloroethane	50	62.2	124	70-130
79-00-5	1,1,2-Trichloroethane	50	52.7	105	70-130
79-01-6	Trichloroethene	50	55.6	111	70-130
75-69-4	Trichlorofluoromethane	50	69.8	140* b	70-130
96-18-4	1,2,3-Trichloropropane	50	52.9	106	70-130
95-63-6	1,2,4-Trimethylbenzene	50	55.1	110	70-130
108-67-8	1,3,5-Trimethylbenzene	50	55.6	111	70-130
108-05-4	Vinyl Acetate	50	56.5	113	70-130
75-01-4	Vinyl chloride	50	53.1	106	70-130
	m,p-Xylene	100	85.2	85	70-130
95-47-6	o-Xylene	50	42.9	86	70-130
1330-20-7	Xylene (total)	150	128	85	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC27954
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1039-BS	V27554.D	1	02/03/14	AMY	n/a	n/a	MSV1039

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27954-2, MC27954-3, MC27954-4

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	70-130%
2037-26-5	Toluene-D8	101%	70-130%
460-00-4	4-Bromofluorobenzene	101%	70-130%

(a) Outside control limits. Associated samples are non-detect for this compound.
(b) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC27954
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1042-BS	V27638.D	1	02/05/14	AMY	n/a	n/a	MSV1042
MSV1042-BSD	V27639.D	1	02/05/14	AMY	n/a	n/a	MSV1042

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27954-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50	45.5	91	42.0	84	8	70-130/25
107-02-8	Acrolein	50	61.5	123	61.5	123	0	70-130/25
107-13-1	Acrylonitrile	100	88.2	88	89.9	90	2	70-130/25
71-43-2	Benzene	50	54.1	108	53.9	108	0	70-130/25
108-86-1	Bromobenzene	50	49.3	99	49.6	99	1	70-130/25
74-97-5	Bromochloromethane	50	55.1	110	54.6	109	1	70-130/25
75-27-4	Bromodichloromethane	50	56.1	112	55.5	111	1	70-130/25
75-25-2	Bromoform	50	42.6	85	42.0	84	1	70-130/25
74-83-9	Bromomethane	50	50.5	101	50.2	100	1	70-130/25
78-93-3	2-Butanone (MEK)	50	45.9	92	44.5	89	3	70-130/25
104-51-8	n-Butylbenzene	50	53.1	106	52.4	105	1	70-130/25
135-98-8	sec-Butylbenzene	50	54.2	108	54.1	108	0	70-130/25
98-06-6	tert-Butylbenzene	50	52.6	105	51.6	103	2	70-130/25
75-15-0	Carbon disulfide	50	47.8	96	48.5	97	1	70-130/25
56-23-5	Carbon tetrachloride	50	55.9	112	54.7	109	2	70-130/25
108-90-7	Chlorobenzene	50	44.3	89	44.0	88	1	70-130/25
75-00-3	Chloroethane	50	63.4	127	62.6	125	1	70-130/25
110-75-8	2-Chloroethyl vinyl ether	50	144	288* [a]	213	426* [a]	39* [a]	70-130/25
67-66-3	Chloroform	50	51.8	104	52.1	104	1	70-130/25
74-87-3	Chloromethane	50	55.2	110	50.5	101	9	70-130/25
95-49-8	o-Chlorotoluene	50	48.6	97	48.4	97	0	70-130/25
106-43-4	p-Chlorotoluene	50	49.7	99	49.3	99	1	70-130/25
124-48-1	Dibromochloromethane	50	53.6	107	53.4	107	0	70-130/25
95-50-1	1,2-Dichlorobenzene	50	45.9	92	45.9	92	0	70-130/25
541-73-1	1,3-Dichlorobenzene	50	46.6	93	46.1	92	1	70-130/25
106-46-7	1,4-Dichlorobenzene	50	46.3	93	45.9	92	1	70-130/25
75-71-8	Dichlorodifluoromethane	50	54.3	109	54.9	110	1	70-130/25
75-34-3	1,1-Dichloroethane	50	54.3	109	54.2	108	0	70-130/25
107-06-2	1,2-Dichloroethane	50	51.5	103	51.1	102	1	70-130/25
75-35-4	1,1-Dichloroethene	50	54.3	109	54.8	110	1	70-130/25
156-59-2	cis-1,2-Dichloroethene	50	55.3	111	55.8	112	1	70-130/25
156-60-5	trans-1,2-Dichloroethene	50	54.0	108	54.1	108	0	70-130/25
78-87-5	1,2-Dichloropropane	50	52.0	104	51.8	104	0	70-130/25
142-28-9	1,3-Dichloropropane	50	48.7	97	48.4	97	1	70-130/25
594-20-7	2,2-Dichloropropane	50	65.9	132* [b]	63.7	127	3	70-130/25
563-58-6	1,1-Dichloropropene	50	53.4	107	52.5	105	2	70-130/25

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC27954
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1042-BS	V27638.D	1	02/05/14	AMY	n/a	n/a	MSV1042
MSV1042-BSD	V27639.D	1	02/05/14	AMY	n/a	n/a	MSV1042

The QC reported here applies to the following samples: Method: SW846 8260C

MC27954-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	50	50.0	100	49.7	99	1	70-130/25
10061-02-6	trans-1,3-Dichloropropene	50	52.0	104	51.3	103	1	70-130/25
123-91-1	1,4-Dioxane	250	234	94	234	94	0	70-130/25
97-63-2	Ethyl methacrylate	50	49.5	99	49.1	98	1	77-137/25
100-41-4	Ethylbenzene	50	50.8	102	50.1	100	1	70-130/25
87-68-3	Hexachlorobutadiene	50	54.3	109	53.5	107	1	70-130/25
591-78-6	2-Hexanone	50	41.6	83	39.5	79	5	70-130/25
98-82-8	Isopropylbenzene	50	55.0	110	55.0	110	0	70-130/25
99-87-6	p-Isopropyltoluene	50	52.8	106	51.8	104	2	70-130/25
1634-04-4	Methyl Tert Butyl Ether	50	58.6	117	58.9	118	1	70-130/25
108-10-1	4-Methyl-2-pentanone (MIBK)	50	55.4	111	55.1	110	1	70-130/25
74-95-3	Methylene bromide	50	52.5	105	51.9	104	1	70-130/25
75-09-2	Methylene chloride	50	51.0	102	51.7	103	1	70-130/25
91-20-3	Naphthalene	50	50.7	101	52.3	105	3	70-130/25
103-65-1	n-Propylbenzene	50	52.7	105	52.0	104	1	70-130/25
100-42-5	Styrene	50	46.2	92	46.5	93	1	70-130/25
630-20-6	1,1,1,2-Tetrachloroethane	50	50.0	100	49.4	99	1	70-130/25
79-34-5	1,1,2,2-Tetrachloroethane	50	48.7	97	48.6	97	0	70-130/25
127-18-4	Tetrachloroethene	50	50.5	101	49.5	99	2	70-130/25
108-88-3	Toluene	50	57.2	114	56.3	113	2	70-130/25
87-61-6	1,2,3-Trichlorobenzene	50	55.3	111	56.9	114	3	70-130/25
120-82-1	1,2,4-Trichlorobenzene	50	56.3	113	57.4	115	2	70-130/25
71-55-6	1,1,1-Trichloroethane	50	58.4	117	57.7	115	1	70-130/25
79-00-5	1,1,2-Trichloroethane	50	52.9	106	52.6	105	1	70-130/25
79-01-6	Trichloroethene	50	54.6	109	54.0	108	1	70-130/25
75-69-4	Trichlorofluoromethane	50	58.0	116	56.7	113	2	70-130/25
96-18-4	1,2,3-Trichloropropane	50	50.7	101	50.5	101	0	70-130/25
95-63-6	1,2,4-Trimethylbenzene	50	53.5	107	53.0	106	1	70-130/25
108-67-8	1,3,5-Trimethylbenzene	50	54.1	108	53.5	107	1	70-130/25
108-05-4	Vinyl Acetate	50	54.1	108	54.5	109	1	70-130/25
75-01-4	Vinyl chloride	50	48.5	97	49.0	98	1	70-130/25
	m,p-Xylene	100	86.1	86	84.4	84	2	70-130/25
95-47-6	o-Xylene	50	43.2	86	43.1	86	0	70-130/25
1330-20-7	Xylene (total)	150	129	86	127	85	2	70-130/25

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC27954
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1042-BS	V27638.D	1	02/05/14	AMY	n/a	n/a	MSV1042
MSV1042-BSD	V27639.D	1	02/05/14	AMY	n/a	n/a	MSV1042

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27954-1

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	96%	98%	70-130%
2037-26-5	Toluene-D8	100%	99%	70-130%
460-00-4	4-Bromofluorobenzene	98%	100%	70-130%

(a) Outside control limits. Associated samples are non-detect for this compound.
(b) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27954
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC28015-6MS	V27573.D	5	02/03/14	AMY	n/a	n/a	MSV1039
MC28015-6MSD	V27574.D	5	02/03/14	AMY	n/a	n/a	MSV1039
MC28015-6	V27558.D	1	02/03/14	AMY	n/a	n/a	MSV1039

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27954-2, MC27954-3, MC27954-4

CAS No.	Compound	MC28015-6 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		250	149	60* [a]	250	145	58* [a]	3	70-130/30
107-02-8	Acrolein	ND		250	268	107	250	265	106	1	70-130/30
107-13-1	Acrylonitrile	ND		500	460	92	500	451	90	2	70-130/30
71-43-2	Benzene	ND		250	278	111	250	271	108	3	70-130/30
108-86-1	Bromobenzene	ND		250	258	103	250	256	102	1	70-130/30
74-97-5	Bromochloromethane	ND		250	282	113	250	277	111	2	70-130/30
75-27-4	Bromodichloromethane	ND		250	296	118	250	287	115	3	70-130/30
75-25-2	Bromoform	ND		250	210	84	250	208	83	1	70-130/30
74-83-9	Bromomethane	ND		250	288	115	250	278	111	4	70-130/30
78-93-3	2-Butanone (MEK)	ND		250	186	74	250	185	74	1	70-130/30
104-51-8	n-Butylbenzene	ND		250	274	110	250	272	109	1	70-130/30
135-98-8	sec-Butylbenzene	ND		250	280	112	250	278	111	1	70-130/30
98-06-6	tert-Butylbenzene	ND		250	282	113	250	277	111	2	70-130/30
75-15-0	Carbon disulfide	ND		250	258	103	250	252	101	2	70-130/30
56-23-5	Carbon tetrachloride	ND		250	310	124	250	297	119	4	70-130/30
108-90-7	Chlorobenzene	ND		250	228	91	250	224	90	2	70-130/30
75-00-3	Chloroethane	ND		250	364	146*	250	347	139*	5	70-130/30
110-75-8	2-Chloroethyl vinyl ether	ND		250	112	45* [a]	250	41.9	17* [a]	91* [b]	70-130/30
67-66-3	Chloroform	ND		250	278	111	250	266	106	4	70-130/30
74-87-3	Chloromethane	ND		250	315	126	250	302	121	4	70-130/30
95-49-8	o-Chlorotoluene	ND		250	257	103	250	253	101	2	70-130/30
106-43-4	p-Chlorotoluene	ND		250	263	105	250	258	103	2	70-130/30
124-48-1	Dibromochloromethane	ND		250	276	110	250	270	108	2	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		250	233	93	250	232	93	0	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		250	241	96	250	238	95	1	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		250	237	95	250	237	95	0	70-130/30
75-71-8	Dichlorodifluoromethane	ND		250	351	140* [a]	250	336	134* [a]	4	70-130/30
75-34-3	1,1-Dichloroethane	ND		250	291	116	250	280	112	4	70-130/30
107-06-2	1,2-Dichloroethane	ND		250	280	112	250	273	109	3	70-130/30
75-35-4	1,1-Dichloroethene	ND		250	298	119	250	283	113	5	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		250	284	114	250	276	110	3	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		250	283	113	250	275	110	3	70-130/30
78-87-5	1,2-Dichloropropane	ND		250	270	108	250	265	106	2	70-130/30
142-28-9	1,3-Dichloropropane	ND		250	245	98	250	242	97	1	70-130/30
594-20-7	2,2-Dichloropropane	ND		250	341	136* [a]	250	335	134* [a]	2	70-130/30
563-58-6	1,1-Dichloropropene	ND		250	283	113	250	273	109	4	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27954
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC28015-6MS	V27573.D	5	02/03/14	AMY	n/a	n/a	MSV1039
MC28015-6MSD	V27574.D	5	02/03/14	AMY	n/a	n/a	MSV1039
MC28015-6	V27558.D	1	02/03/14	AMY	n/a	n/a	MSV1039

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27954-2, MC27954-3, MC27954-4

CAS No.	Compound	MC28015-6 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		250	250	100	250	243	97	3	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		250	263	105	250	260	104	1	70-130/30
123-91-1	1,4-Dioxane	ND		1250	1010	81	1250	1210	97	18	70-130/30
97-63-2	Ethyl methacrylate	ND		250	245	98	250	241	96	2	72-139/30
100-41-4	Ethylbenzene	ND		250	264	106	250	258	103	2	70-130/30
87-68-3	Hexachlorobutadiene	ND		250	273	109	250	275	110	1	70-130/30
591-78-6	2-Hexanone	ND		250	185	74	250	181	72	2	70-130/30
98-82-8	Isopropylbenzene	ND		250	287	115	250	282	113	2	70-130/30
99-87-6	p-Isopropyltoluene	ND		250	270	108	250	268	107	1	70-130/30
1634-04-4	Methyl Tert Butyl Ether	ND		250	299	120	250	296	118	1	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	279	112	250	271	108	3	70-130/30
74-95-3	Methylene bromide	ND		250	269	108	250	264	106	2	70-130/30
75-09-2	Methylene chloride	ND		250	266	106	250	257	103	3	70-130/30
91-20-3	Naphthalene	ND		250	221	88	250	253	101	14	70-130/30
103-65-1	n-Propylbenzene	ND		250	275	110	250	270	108	2	70-130/30
100-42-5	Styrene	ND		250	240	96	250	235	94	2	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		250	263	105	250	257	103	2	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	245	98	250	245	98	0	70-130/30
127-18-4	Tetrachloroethene	1.0		250	266	106	250	258	103	3	70-130/30
108-88-3	Toluene	ND		250	292	117	250	284	114	3	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		250	259	104	250	282	113	9	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		250	278	111	250	287	115	3	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		250	312	125	250	300	120	4	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		250	266	106	250	263	105	1	70-130/30
79-01-6	Trichloroethene	ND		250	287	115	250	275	110	4	70-130/30
75-69-4	Trichlorofluoromethane	ND		250	341	136* [a]	250	321	128	6	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		250	253	101	250	255	102	1	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		250	279	112	250	276	110	1	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		250	282	113	250	279	112	1	70-130/30
108-05-4	Vinyl Acetate	ND		250	283	113	250	279	112	1	70-130/30
75-01-4	Vinyl chloride	ND		250	286	114	250	273	109	5	70-130/30
	m,p-Xylene	ND		500	439	88	500	435	87	1	70-130/30
95-47-6	o-Xylene	ND		250	221	88	250	216	86	2	70-130/30
1330-20-7	Xylene (total)	ND		750	660	88	750	651	87	1	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27954
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC28015-6MS	V27573.D	5	02/03/14	AMY	n/a	n/a	MSV1039
MC28015-6MSD	V27574.D	5	02/03/14	AMY	n/a	n/a	MSV1039
MC28015-6	V27558.D	1	02/03/14	AMY	n/a	n/a	MSV1039

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27954-2, MC27954-3, MC27954-4

CAS No.	Surrogate Recoveries	MS	MSD	MC28015-6	Limits
1868-53-7	Dibromofluoromethane	100%	99%	111%	70-130%
2037-26-5	Toluene-D8	101%	100%	99%	70-130%
460-00-4	4-Bromofluorobenzene	100%	101%	103%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.
(b) High RPD due to possible matrix interference and/or sample non-homogeneity.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27954
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC28049-3MS	V27653.D	5	02/05/14	AMY	n/a	n/a	MSV1042
MC28049-3MSD	V27654.D	5	02/05/14	AMY	n/a	n/a	MSV1042
MC28049-3	V27648.D	1	02/05/14	AMY	n/a	n/a	MSV1042

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27954-1

CAS No.	Compound	MC28049-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		250	185	74	250	185	74	0	70-130/30
107-02-8	Acrolein	ND		250	262	105	250	260	104	1	70-130/30
107-13-1	Acrylonitrile	ND		500	491	98	500	478	96	3	70-130/30
71-43-2	Benzene	ND		250	298	119	250	283	113	5	70-130/30
108-86-1	Bromobenzene	ND		250	273	109	250	257	103	6	70-130/30
74-97-5	Bromochloromethane	ND		250	298	119	250	293	117	2	70-130/30
75-27-4	Bromodichloromethane	ND		250	305	122	250	291	116	5	70-130/30
75-25-2	Bromoform	ND		250	225	90	250	221	88	2	70-130/30
74-83-9	Bromomethane	ND		250	270	108	250	254	102	6	70-130/30
78-93-3	2-Butanone (MEK)	ND		250	209	84	250	210	84	0	70-130/30
104-51-8	n-Butylbenzene	ND		250	290	116	250	278	111	4	70-130/30
135-98-8	sec-Butylbenzene	ND		250	297	119	250	283	113	5	70-130/30
98-06-6	tert-Butylbenzene	ND		250	286	114	250	272	109	5	70-130/30
75-15-0	Carbon disulfide	ND		250	270	108	250	260	104	4	70-130/30
56-23-5	Carbon tetrachloride	ND		250	311	124	250	297	119	5	70-130/30
108-90-7	Chlorobenzene	ND		250	245	98	250	233	93	5	70-130/30
75-00-3	Chloroethane	ND		250	336	134* [a]	250	319	128	5	70-130/30
110-75-8	2-Chloroethyl vinyl ether	ND		250	ND	0* [a]	250	ND	0* [a]	nc	70-130/30
67-66-3	Chloroform	ND		250	287	115	250	275	110	4	70-130/30
74-87-3	Chloromethane	ND		250	293	117	250	272	109	7	70-130/30
95-49-8	o-Chlorotoluene	ND		250	268	107	250	251	100	7	70-130/30
106-43-4	p-Chlorotoluene	ND		250	271	108	250	258	103	5	70-130/30
124-48-1	Dibromochloromethane	ND		250	293	117	250	280	112	5	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		250	249	100	250	238	95	5	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		250	253	101	250	239	96	6	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		250	251	100	250	240	96	4	70-130/30
75-71-8	Dichlorodifluoromethane	ND		250	337	135* [a]	250	317	127	6	70-130/30
75-34-3	1,1-Dichloroethane	ND		250	305	122	250	291	116	5	70-130/30
107-06-2	1,2-Dichloroethane	ND		250	286	114	250	274	110	4	70-130/30
75-35-4	1,1-Dichloroethene	ND		250	314	126	250	300	120	5	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		250	305	122	250	295	118	3	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		250	301	120	250	287	115	5	70-130/30
78-87-5	1,2-Dichloropropane	ND		250	287	115	250	273	109	5	70-130/30
142-28-9	1,3-Dichloropropane	ND		250	268	107	250	256	102	5	70-130/30
594-20-7	2,2-Dichloropropane	ND		250	339	136* [a]	250	335	134* [a]	1	70-130/30
563-58-6	1,1-Dichloropropene	ND		250	300	120	250	283	113	6	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27954
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC28049-3MS	V27653.D	5	02/05/14	AMY	n/a	n/a	MSV1042
MC28049-3MSD	V27654.D	5	02/05/14	AMY	n/a	n/a	MSV1042
MC28049-3	V27648.D	1	02/05/14	AMY	n/a	n/a	MSV1042

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27954-1

CAS No.	Compound	MC28049-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		250	264	106	250	253	101	4	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		250	281	112	250	271	108	4	70-130/30
123-91-1	1,4-Dioxane	ND		1250	1250	100	1250	1310	105	5	70-130/30
97-63-2	Ethyl methacrylate	ND		250	269	108	250	260	104	3	72-139/30
100-41-4	Ethylbenzene	ND		250	283	113	250	268	107	5	70-130/30
87-68-3	Hexachlorobutadiene	ND		250	289	116	250	283	113	2	70-130/30
591-78-6	2-Hexanone	ND		250	201	80	250	195	78	3	70-130/30
98-82-8	Isopropylbenzene	ND		250	304	122	250	286	114	6	70-130/30
99-87-6	p-Isopropyltoluene	ND		250	286	114	250	272	109	5	70-130/30
1634-04-4	Methyl Tert Butyl Ether	ND		250	330	132* [a]	250	319	128	3	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	303	121	250	296	118	2	70-130/30
74-95-3	Methylene bromide	ND		250	288	115	250	278	111	4	70-130/30
75-09-2	Methylene chloride	ND		250	284	114	250	271	108	5	70-130/30
91-20-3	Naphthalene	ND		250	281	112	250	277	111	1	70-130/30
103-65-1	n-Propylbenzene	ND		250	289	116	250	272	109	6	70-130/30
100-42-5	Styrene	ND		250	259	104	250	247	99	5	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		250	275	110	250	264	106	4	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	268	107	250	254	102	5	70-130/30
127-18-4	Tetrachloroethene	ND		250	284	114	250	269	108	5	70-130/30
108-88-3	Toluene	0.88	J	250	312	124	250	295	118	6	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		250	274	110	250	293	117	7	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		250	298	119	250	299	120	0	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		250	317	127	250	308	123	3	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		250	291	116	250	278	111	5	70-130/30
79-01-6	Trichloroethene	ND		250	301	120	250	285	114	5	70-130/30
75-69-4	Trichlorofluoromethane	ND		250	311	124	250	296	118	5	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		250	275	110	250	267	107	3	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		250	294	118	250	276	110	6	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		250	295	118	250	282	113	5	70-130/30
108-05-4	Vinyl Acetate	ND		250	303	121	250	292	117	4	70-130/30
75-01-4	Vinyl chloride	ND		250	270	108	250	253	101	7	70-130/30
	m,p-Xylene	ND		500	467	93	500	446	89	5	70-130/30
95-47-6	o-Xylene	ND		250	236	94	250	225	90	5	70-130/30
1330-20-7	Xylene (total)	ND		750	703	94	750	671	89	5	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27954
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC28049-3MS	V27653.D	5	02/05/14	AMY	n/a	n/a	MSV1042
MC28049-3MSD	V27654.D	5	02/05/14	AMY	n/a	n/a	MSV1042
MC28049-3	V27648.D	1	02/05/14	AMY	n/a	n/a	MSV1042

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27954-1

CAS No.	Surrogate Recoveries	MS	MSD	MC28049-3	Limits
1868-53-7	Dibromofluoromethane	98%	98%	109%	70-130%
2037-26-5	Toluene-D8	100%	100%	100%	70-130%
460-00-4	4-Bromofluorobenzene	99%	99%	103%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.

* = Outside of Control Limits.

Volatile Internal Standard Area Summary

Job Number: MC27954
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSV1039-CC1019	**Injection Date:**	02/03/14
Lab File ID:	V27553.D	**Injection Time:**	09:09
Instrument ID:	GCMSV	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	464658	6.55	586326	7.73	347957	11.07	381732	13.28	147763	3.50
Upper Limit [a]	929316	7.05	1172652	8.23	695914	11.57	763464	13.78	295526	4.00
Lower Limit [b]	232329	6.05	293163	7.23	173979	10.57	190866	12.78	73882	3.00

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSV1039-BS	465754	6.55	588801	7.73	349487	11.07	382234	13.28	163317	3.50
MSV1039-MB	382183	6.55	515666	7.73	305745	11.07	301809	13.28	142059	3.50
MC27954-4	359385	6.55	488507	7.73	293990	11.07	287308	13.28	131770	3.51
MC28015-6	346626	6.55	477079	7.73	285821	11.07	283833	13.28	132560	3.51
ZZZZZZ	339488	6.55	466157	7.74	280607	11.07	277204	13.28	121121	3.51
ZZZZZZ	332338	6.56	460221	7.74	278112	11.07	276752	13.28	115199	3.51
ZZZZZZ	321963	6.56	444324	7.73	270121	11.07	270792	13.28	118737	3.51
ZZZZZZ	432341	6.56	549141	7.74	334752	11.07	331658	13.28	154708	3.51
ZZZZZZ	502818	6.56	653681	7.74	405951	11.07	405165	13.28	192291	3.52
ZZZZZZ	424208	6.56	588980	7.74	342115	11.07	334438	13.28	157824	3.52
ZZZZZZ	469421	6.56	619977	7.74	370882	11.07	371886	13.28	158827	3.51
ZZZZZZ	482537	6.55	631095	7.73	374927	11.07	372375	13.28	167538	3.50
ZZZZZZ	430582	6.55	597099	7.73	345979	11.07	343668	13.28	149756	3.50
ZZZZZZ	424344	6.56	581113	7.74	341448	11.07	335755	13.28	149538	3.51
ZZZZZZ	418517	6.55	571351	7.74	334962	11.07	330590	13.28	159140	3.51
ZZZZZZ	396394	6.56	546128	7.74	325071	11.07	319942	13.28	156323	3.51
MC27954-3	398866	6.55	543295	7.74	327601	11.07	341302	13.28	155128	3.51
MC28015-6MS	464226	6.55	596214	7.73	349230	11.07	382975	13.28	158431	3.51
MC28015-6MSD	479889	6.55	622022	7.73	361430	11.07	391299	13.28	171286	3.51
MC27954-2	401640	6.55	575105	7.73	328382	11.07	318669	13.28	148586	3.51
ZZZZZZ	406795	6.55	564514	7.73	336895	11.07	326523	13.28	152823	3.50
ZZZZZZ	443647	6.55	588235	7.73	346880	11.07	345749	13.28	161650	3.51

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: MC27954
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSV1042-CC1019	**Injection Date:**	02/05/14
Lab File ID:	V27637.D	**Injection Time:**	09:23
Instrument ID:	GCMSV	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	573160	6.57	750824	7.75	448659	11.08	500167	13.29	217472	3.53
Upper Limit [a]	1146320	7.07	1501648	8.25	897318	11.58	1000334	13.79	434944	4.03
Lower Limit [b]	286580	6.07	375412	7.25	224330	10.58	250084	12.79	108736	3.03

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSV1042-BS	555130	6.56	724931	7.74	424053	11.08	470259	13.29	204204	3.52
MSV1042-BSD	538538	6.57	709202	7.75	414373	11.08	454579	13.29	199054	3.53
MSV1042-MB	449418	6.58	613800	7.76	361859	11.08	359541	13.30	173323	3.54
ZZZZZZ	440684	6.58	602223	7.75	358457	11.09	359022	13.30	165187	3.53
ZZZZZZ	416468	6.59	582738	7.76	345849	11.09	343012	13.30	157788	3.54
ZZZZZZ	407498	6.58	572752	7.76	336878	11.09	336034	13.30	149557	3.53
ZZZZZZ	408385	6.58	567291	7.76	336532	11.09	334838	13.30	151836	3.53
MC27954-1	399233	6.59	568956	7.76	331860	11.09	336421	13.30	154871	3.54
ZZZZZZ	381085	6.59	554311	7.77	326546	11.09	326009	13.30	155274	3.55
MC28049-3	383833	6.60	534444	7.77	323398	11.09	321121	13.30	160445	3.55
ZZZZZZ	378529	6.60	521332	7.77	311450	11.09	314020	13.30	158717	3.55
ZZZZZZ	423697	6.59	543642	7.77	330198	11.09	341592	13.30	177522	3.54
ZZZZZZ	441963	6.59	581854	7.77	354399	11.09	393174	13.30	162865	3.55
ZZZZZZ	446323	6.59	609116	7.76	349025	11.09	371278	13.30	191882	3.54
MC28049-3MS	488825	6.59	636264	7.77	370007	11.09	409649	13.30	191168	3.55
MC28049-3MSD	509603	6.59	668384	7.76	385716	11.09	431833	13.30	202241	3.54
ZZZZZZ	439595	6.59	578937	7.77	341341	11.09	349093	13.30	174169	3.54
ZZZZZZ	439130	6.59	688016	7.76	357658	11.09	366161	13.30	183143	3.53
ZZZZZZ	430828	6.59	583617	7.76	342244	11.09	363034	13.30	174277	3.53
ZZZZZZ	423050	6.59	586275	7.76	340582	11.09	358478	13.30	175665	3.53
ZZZZZZ	429093	6.59	598294	7.77	348217	11.09	361453	13.30	180786	3.54

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: MC27954
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Method: SW846 8260C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC27954-1	V27646.D	108	97	102
MC27954-2	V27576.D	108	97	105
MC27954-3	V27572.D	108	100	109
MC27954-4	V27557.D	110	100	105
MC28015-6MS	V27573.D	100	101	100
MC28015-6MSD	V27574.D	99	100	101
MC28049-3MS	V27653.D	98	100	99
MC28049-3MSD	V27654.D	98	100	99
MSV1039-BS	V27554.D	98	101	101
MSV1039-MB	V27556.D	107	99	105
MSV1042-BS	V27638.D	96	100	98
MSV1042-BSD	V27639.D	98	99	100
MSV1042-MB	V27641.D	104	99	103

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	70-130%
S2 = Toluene-D8	70-130%
S3 = 4-Bromofluorobenzene	70-130%

GC/MS Semi-volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC27954
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36696-MB	W17506.D	1	01/31/14	KR	01/29/14	OP36696	MSW769

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC27954-1, MC27954-2, MC27954-3

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.38	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.49	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.33	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	ND	10	1.3	ug/l	
	3&4-Methylphenol	ND	10	2.0	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.50	ug/l	
100-02-7	4-Nitrophenol	ND	20	0.58	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	ND	5.0	0.51	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.57	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.32	ug/l	
62-53-3	Aniline	ND	10	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.20	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.85	ug/l	
100-51-6	Benzyl Alcohol	ND	10	0.57	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.92	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.25	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.21	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.23	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.13	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.20	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.65	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.68	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.64	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.50	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.39	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	0.43	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	0.50	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.50	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.49	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.30	ug/l	

Method Blank Summary

Job Number: MC27954
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36696-MB	W17506.D	1	01/31/14	KR	01/29/14	OP36696	MSW769

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC27954-1, MC27954-2, MC27954-3

CAS No.	Compound	Result	RL	MDL	Units	Q
77-47-4	Hexachlorocyclopentadiene	ND	10	2.5	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.44	ug/l	
78-59-1	Isophorone	ND	5.0	0.20	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.50	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.3	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.25	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.0	0.50	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.81	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.54	ug/l	
110-86-1	Pyridine	ND	10	0.52	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	48%	15-110%
4165-62-2	Phenol-d5	33%	15-110%
118-79-6	2,4,6-Tribromophenol	88%	15-110%
4165-60-0	Nitrobenzene-d5	78%	30-130%
321-60-8	2-Fluorobiphenyl	76%	30-130%
1718-51-0	Terphenyl-d14	89%	30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

Method Blank Summary

Job Number: MC27954
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36697-MB	I87170.D	1	01/31/14	KR	01/29/14	OP36697	MSI3241

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

MC27954-1, MC27954-2, MC27954-3

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.069	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.050	ug/l	
120-12-7	Anthracene	ND	0.10	0.092	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	0.020	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.029	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	0.032	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.027	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.039	ug/l	
218-01-9	Chrysene	ND	0.10	0.024	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.032	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.041	ug/l	
86-73-7	Fluorene	ND	0.10	0.099	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.031	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.20	0.050	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.20	0.074	ug/l	
85-01-8	Phenanthrene	0.023	0.050	0.013	ug/l	J
129-00-0	Pyrene	ND	0.10	0.038	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	78%	30-130%
321-60-8	2-Fluorobiphenyl	70%	30-130%
1718-51-0	Terphenyl-d14	85%	30-130%

Blank Spike Summary

Job Number: MC27954
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36696-BS	W17507.D	1	01/31/14	KR	01/29/14	OP36696	MSW769

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC27954-1, MC27954-2, MC27954-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	50	18.7	37	30-130
95-57-8	2-Chlorophenol	50	44.8	90	30-130
59-50-7	4-Chloro-3-methyl phenol	50	48.5	97	30-130
120-83-2	2,4-Dichlorophenol	50	51.3	103	30-130
105-67-9	2,4-Dimethylphenol	50	41.8	84	30-130
51-28-5	2,4-Dinitrophenol	50	50.0	100	30-130
534-52-1	4,6-Dinitro-o-cresol	50	54.1	108	30-130
95-48-7	2-Methylphenol	50	41.6	83	30-130
	3&4-Methylphenol	100	79.2	79	30-130
88-75-5	2-Nitrophenol	50	51.1	102	30-130
100-02-7	4-Nitrophenol	50	22.4	45	30-130
87-86-5	Pentachlorophenol	50	44.1	88	30-130
108-95-2	Phenol	50	21.4	43	30-130
95-95-4	2,4,5-Trichlorophenol	50	50.8	102	30-130
88-06-2	2,4,6-Trichlorophenol	50	49.1	98	30-130
62-53-3	Aniline	50	30.6	61	40-140
101-55-3	4-Bromophenyl phenyl ether	50	44.4	89	40-140
85-68-7	Butyl benzyl phthalate	50	47.5	95	40-140
100-51-6	Benzyl Alcohol	50	34.5	69	40-140
91-58-7	2-Chloronaphthalene	50	41.9	84	40-140
106-47-8	4-Chloroaniline	50	37.7	75	40-140
111-91-1	bis(2-Chloroethoxy)methane	50	41.5	83	40-140
111-44-4	bis(2-Chloroethyl)ether	50	42.1	84	40-140
108-60-1	bis(2-Chloroisopropyl)ether	50	49.1	98	40-140
7005-72-3	4-Chlorophenyl phenyl ether	50	43.2	86	40-140
122-66-7	1,2-Diphenylhydrazine	50	41.5	83	40-140
121-14-2	2,4-Dinitrotoluene	50	46.3	93	40-140
606-20-2	2,6-Dinitrotoluene	50	42.1	84	40-140
91-94-1	3,3'-Dichlorobenzidine	50	45.5	91	40-140
132-64-9	Dibenzofuran	50	39.9	80	40-140
84-74-2	Di-n-butyl phthalate	50	43.2	86	40-140
117-84-0	Di-n-octyl phthalate	50	48.8	98	40-140
84-66-2	Diethyl phthalate	50	40.0	80	40-140
131-11-3	Dimethyl phthalate	50	30.5	61	40-140
117-81-7	bis(2-Ethylhexyl)phthalate	50	48.7	97	40-140
118-74-1	Hexachlorobenzene	50	45.5	91	40-140

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC27954
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36696-BS	W17507.D	1	01/31/14	KR	01/29/14	OP36696	MSW769

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC27954-1, MC27954-2, MC27954-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
77-47-4	Hexachlorocyclopentadiene	50	22.2	44	40-140
67-72-1	Hexachloroethane	50	30.4	61	40-140
78-59-1	Isophorone	50	41.7	83	40-140
88-74-4	2-Nitroaniline	50	43.1	86	40-140
99-09-2	3-Nitroaniline	50	41.9	84	40-140
100-01-6	4-Nitroaniline	50	43.7	87	40-140
98-95-3	Nitrobenzene	50	42.2	84	40-140
62-75-9	n-Nitrosodimethylamine	50	27.2	54	40-140
621-64-7	N-Nitroso-di-n-propylamine	50	44.6	89	40-140
86-30-6	N-Nitrosodiphenylamine	50	42.0	84	40-140
110-86-1	Pyridine	50	21.9	44	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	54%	15-110%
4165-62-2	Phenol-d5	37%	15-110%
118-79-6	2,4,6-Tribromophenol	94%	15-110%
4165-60-0	Nitrobenzene-d5	86%	30-130%
321-60-8	2-Fluorobiphenyl	82%	30-130%
1718-51-0	Terphenyl-d14	92%	30-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC27954
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36697-BS	I87171.D	1	01/31/14	KR	01/29/14	OP36697	MSI3241

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

MC27954-1, MC27954-2, MC27954-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	50	39.5	79	40-140
208-96-8	Acenaphthylene	50	33.7	67	40-140
120-12-7	Anthracene	50	38.1	76	40-140
56-55-3	Benzo(a)anthracene	50	44.3	89	40-140
50-32-8	Benzo(a)pyrene	50	42.1	84	40-140
205-99-2	Benzo(b)fluoranthene	50	45.2	90	40-140
191-24-2	Benzo(g,h,i)perylene	50	47.6	95	40-140
207-08-9	Benzo(k)fluoranthene	50	43.1	86	40-140
218-01-9	Chrysene	50	42.3	85	40-140
53-70-3	Dibenzo(a,h)anthracene	50	48.6	97	40-140
206-44-0	Fluoranthene	50	42.3	85	40-140
86-73-7	Fluorene	50	39.2	78	40-140
193-39-5	Indeno(1,2,3-cd)pyrene	50	48.4	97	40-140
90-12-0	1-Methylnaphthalene	50	35.3	71	40-140
91-57-6	2-Methylnaphthalene	50	34.5	69	40-140
85-01-8	Phenanthrene	50	37.9	76	40-140
129-00-0	Pyrene	50	41.5	83	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	86%	30-130%
321-60-8	2-Fluorobiphenyl	77%	30-130%
1718-51-0	Terphenyl-d14	89%	30-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27954
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36696-MS1	W17508.D	1	01/31/14	KR	01/29/14	OP36696	MSW769
OP36696-MSD1	W17509.D	1	01/31/14	KR	01/29/14	OP36696	MSW769
MC27977-1	W17510.D	1	01/31/14	KR	01/30/14	OP36696	MSW769

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC27954-1, MC27954-2, MC27954-3

CAS No.	Compound	MC27977-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		54.9	4.1	7* [a]	53.2	33.7	63	157* [b]	30-130/20
95-57-8	2-Chlorophenol	ND		54.9	46.0	84	53.2	45.3	85	2	30-130/20
59-50-7	4-Chloro-3-methyl phenol	ND		54.9	50.8	92	53.2	53.5	101	5	30-130/20
120-83-2	2,4-Dichlorophenol	ND		54.9	49.8	91	53.2	52.1	98	5	30-130/20
105-67-9	2,4-Dimethylphenol	ND		54.9	49.4	90	53.2	51.7	97	5	30-130/20
51-28-5	2,4-Dinitrophenol	ND		54.9	44.0	80	53.2	55.9	105	24* [b]	30-130/20
534-52-1	4,6-Dinitro-o-cresol	ND		54.9	53.5	97	53.2	60.4	114	12	30-130/20
95-48-7	2-Methylphenol	ND		54.9	45.5	83	53.2	47.7	90	5	30-130/20
	3&4-Methylphenol	ND		110	90.6	82	106	96.6	91	6	30-130/20
88-75-5	2-Nitrophenol	ND		54.9	49.1	89	53.2	50.9	96	4	30-130/20
100-02-7	4-Nitrophenol	ND		54.9	27.3	50	53.2	32.7	61	18	30-130/20
87-86-5	Pentachlorophenol	ND		54.9	47.4	86	53.2	53.8	101	13	30-130/20
108-95-2	Phenol	ND		54.9	26.3	48	53.2	29.9	56	13	30-130/20
95-95-4	2,4,5-Trichlorophenol	ND		54.9	47.8	87	53.2	55.0	103	14	30-130/20
88-06-2	2,4,6-Trichlorophenol	ND		54.9	45.1	82	53.2	54.1	102	18	30-130/20
62-53-3	Aniline	ND		54.9	30.4	55	53.2	29.6	56	3	40-140/20
101-55-3	4-Bromophenyl phenyl ether	ND		54.9	45.9	84	53.2	51.2	96	11	40-140/20
85-68-7	Butyl benzyl phthalate	ND		54.9	50.7	92	53.2	55.4	104	9	40-140/20
100-51-6	Benzyl Alcohol	ND		54.9	36.7	67	53.2	36.4	68	1	40-140/20
91-58-7	2-Chloronaphthalene	ND		54.9	39.7	72	53.2	45.2	85	13	40-140/20
106-47-8	4-Chloroaniline	ND		54.9	38.3	70	53.2	39.6	74	3	40-140/20
111-91-1	bis(2-Chloroethoxy)methane	ND		54.9	44.1	80	53.2	46.1	87	4	40-140/20
111-44-4	bis(2-Chloroethyl)ether	ND		54.9	44.5	81	53.2	46.3	87	4	40-140/20
108-60-1	bis(2-Chloroisopropyl)ether	ND		54.9	50.6	92	53.2	51.7	97	2	40-140/20
7005-72-3	4-Chlorophenyl phenyl ether	ND		54.9	38.8	71	53.2	46.6	88	18	40-140/20
122-66-7	1,2-Diphenylhydrazine	ND		54.9	44.1	80	53.2	50.7	95	14	40-140/20
121-14-2	2,4-Dinitrotoluene	ND		54.9	45.5	83	53.2	53.1	100	15	40-140/20
606-20-2	2,6-Dinitrotoluene	ND		54.9	42.6	78	53.2	49.4	93	15	40-140/20
91-94-1	3,3'-Dichlorobenzidine	ND		54.9	26.2	48	53.2	8.7	16* [a]	100* [b]	40-140/20
132-64-9	Dibenzofuran	1.9	J	54.9	39.7	69	53.2	46.5	84	16	40-140/20
84-74-2	Di-n-butyl phthalate	ND		54.9	45.5	83	53.2	50.2	94	10	40-140/20
117-84-0	Di-n-octyl phthalate	ND		54.9	50.7	92	53.2	55.0	103	8	40-140/20
84-66-2	Diethyl phthalate	ND		54.9	43.0	78	53.2	51.6	97	18	40-140/20
131-11-3	Dimethyl phthalate	ND		54.9	44.5	81	53.2	53.2	100	18	40-140/20
117-81-7	bis(2-Ethylhexyl)phthalate	ND		54.9	51.2	93	53.2	56.7	107	10	40-140/20
118-74-1	Hexachlorobenzene	ND		54.9	45.2	82	53.2	51.5	97	13	40-140/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27954
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36696-MS1	W17508.D	1	01/31/14	KR	01/29/14	OP36696	MSW769
OP36696-MSD1	W17509.D	1	01/31/14	KR	01/29/14	OP36696	MSW769
MC27977-1	W17510.D	1	01/31/14	KR	01/30/14	OP36696	MSW769

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC27954-1, MC27954-2, MC27954-3

CAS No.	Compound	MC27977-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
77-47-4	Hexachlorocyclopentadiene	ND		54.9	17.4	32* [a]	53.2	20.7	39* [a]	17	40-140/20
67-72-1	Hexachloroethane	ND		54.9	26.6	48	53.2	27.0	51	1	40-140/20
78-59-1	Isophorone	ND		54.9	43.5	79	53.2	45.6	86	5	40-140/20
88-74-4	2-Nitroaniline	ND		54.9	42.2	77	53.2	50.6	95	18	40-140/20
99-09-2	3-Nitroaniline	ND		54.9	38.4	70	53.2	34.5	65	11	40-140/20
100-01-6	4-Nitroaniline	ND		54.9	41.9	76	53.2	39.0	73	7	40-140/20
98-95-3	Nitrobenzene	ND		54.9	47.8	87	53.2	49.5	93	3	40-140/20
62-75-9	n-Nitrosodimethylamine	ND		54.9	30.0	55	53.2	29.1	55	3	40-140/20
621-64-7	N-Nitroso-di-n-propylamine	ND		54.9	45.8	83	53.2	49.5	93	8	40-140/20
86-30-6	N-Nitrosodiphenylamine	ND		54.9	45.0	82	53.2	50.3	95	11	40-140/20
110-86-1	Pyridine	ND		54.9	22.9	42	53.2	21.1	40	8	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC27977-1	Limits
367-12-4	2-Fluorophenol	51%	50%	47%	15-110%
4165-62-2	Phenol-d5	41%	49%	36%	15-110%
118-79-6	2,4,6-Tribromophenol	82%	95%	78%	15-110%
4165-60-0	Nitrobenzene-d5	81%	88%	84%	30-130%
321-60-8	2-Fluorobiphenyl	61%	77%	75%	30-130%
1718-51-0	Terphenyl-d14	80%	92%	85%	30-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.
(b) High RPD due to possible matrix interference and/or sample non-homogeneity.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27954
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36697-MS1	I87172.D	1	01/31/14	KR	01/29/14	OP36697	MSI3241
OP36697-MSD1	I87173.D	1	01/31/14	KR	01/29/14	OP36697	MSI3241
MC27977-1	I87174.D	1	01/31/14	KR	01/30/14	OP36697	MSI3241

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

MC27954-1, MC27954-2, MC27954-3

CAS No.	Compound	MC27977-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	0.99		54.9	39.8	71	53.2	44.0	81	10	40-140/20
208-96-8	Acenaphthylene	0.32		54.9	33.7	61	53.2	36.7	68	9	40-140/20
120-12-7	Anthracene	ND		54.9	39.5	72	53.2	42.9	81	8	40-140/20
56-55-3	Benzo(a)anthracene	0.039	J	54.9	45.5	83	53.2	49.7	93	9	40-140/20
50-32-8	Benzo(a)pyrene	0.044	J	54.9	43.9	80	53.2	47.5	89	8	40-140/20
205-99-2	Benzo(b)fluoranthene	0.048	J	54.9	46.2	84	53.2	50.1	94	8	40-140/20
191-24-2	Benzo(g,h,i)perylene	0.052	J	54.9	49.7	90	53.2	54.4	102	9	40-140/20
207-08-9	Benzo(k)fluoranthene	ND		54.9	45.5	83	53.2	50.4	95	10	40-140/20
218-01-9	Chrysene	0.047	J	54.9	43.4	79	53.2	47.2	89	8	40-140/20
53-70-3	Dibenzo(a,h)anthracene	0.035	J	54.9	50.8	92	53.2	55.1	104	8	40-140/20
206-44-0	Fluoranthene	0.065	J	54.9	44.2	80	53.2	47.8	90	8	40-140/20
86-73-7	Fluorene	1.6		54.9	37.7	66	53.2	42.6	77	12	40-140/20
193-39-5	Indeno(1,2,3-cd)pyrene	0.041	J	54.9	50.5	92	53.2	54.9	103	8	40-140/20
90-12-0	1-Methylnaphthalene	70.1		54.9	92.4	41	53.2	96.9	50	5	40-140/20
91-57-6	2-Methylnaphthalene	28.4		54.9	58.2	54	53.2	61.8	63	6	40-140/20
85-01-8	Phenanthrene	0.77		54.9	40.4	72	53.2	44.1	81	9	40-140/20
129-00-0	Pyrene	0.099	J	54.9	42.6	77	53.2	46.6	87	9	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC27977-1	Limits
4165-60-0	Nitrobenzene-d5	78%	83%	82%	30-130%
321-60-8	2-Fluorobiphenyl	61%	72%	70%	30-130%
1718-51-0	Terphenyl-d14	77%	89%	83%	30-130%

* = Outside of Control Limits.

Semivolatile Internal Standard Area Summary

Job Number: MC27954
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSI3241-CC3238	**Injection Date:**	01/31/14
Lab File ID:	I87167.D	**Injection Time:**	13:32
Instrument ID:	GCMSI	**Method:**	SW846 8270D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	356808	4.43	790051	5.49	435059	7.04	712559	8.47	447531	11.24	1187349	12.75
Upper Limit [a]	713616	4.93	1580102	5.99	870118	7.54	1425118	8.97	895062	11.74	2374698	13.25
Lower Limit [b]	178404	3.93	395026	4.99	217530	6.54	356280	7.97	223766	10.74	593675	12.25

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP36718-MB	377168	4.43	837965	5.49	456328	7.04	748463	8.47	466759	11.24	1209576	12.75
OP36718-BS	368854	4.43	832332	5.49	449530	7.04	730568	8.47	442146	11.24	1109923	12.75
OP36697-MB	324903	4.43	715893	5.49	389791	7.04	642953	8.46	398521	11.23	1067989	12.74
OP36697-BS	335337	4.43	747618	5.49	401367	7.04	657805	8.47	399809	11.24	1038031	12.75
OP36697-MS1	329145	4.43	721677	5.49	395394	7.04	647671	8.47	398682	11.24	1045379	12.75
OP36697-MSD1	313939	4.43	692443	5.49	371805	7.04	621156	8.47	387178	11.24	1016795	12.75
MC27977-1	315106	4.43	680023	5.49	366746	7.04	598566	8.47	373570	11.24	970506	12.74
ZZZZZZ	305999	4.43	672537	5.49	361458	7.04	595860	8.46	373112	11.23	990332	12.74
ZZZZZZ	328971	4.43	699688	5.49	385694	7.04	616809	8.47	371655	11.24	985353	12.74
ZZZZZZ	316469	4.43	689031	5.49	387486	7.04	606699	8.46	365093	11.24	972044	12.74
ZZZZZZ	324416	4.43	712700	5.49	381294	7.04	625278	8.47	387642	11.24	1004647	12.75
ZZZZZZ	326338	4.43	716807	5.48	386892	7.03	632526	8.46	398665	11.23	1026956	12.74
MC27954-1	380829	4.43	830606	5.49	454209	7.04	739264	8.46	447648	11.24	1185554	12.74
MC27954-2	347650	4.43	764646	5.49	412251	7.04	662332	8.46	403669	11.24	1053237	12.74
MC27954-3	330757	4.43	726295	5.49	387837	7.04	634589	8.47	395144	11.24	1017578	12.75
OP36718-MS	395036	4.43	873352	5.49	471007	7.04	757849	8.47	443401	11.24	1101795	12.75
OP36718-MSD	384000	4.43	857998	5.49	462947	7.04	749679	8.47	440917	11.24	1081813	12.75
MC27986-7	406577	4.43	895027	5.49	488794	7.04	782430	8.47	452977	11.24	1104078	12.75
ZZZZZZ	410472	4.43	893805	5.49	474906	7.04	757109	8.47	446084	11.24	1069977	12.75
ZZZZZZ	414891	4.43	906236	5.49	482868	7.04	777234	8.47	455531	11.24	1102219	12.75
ZZZZZZ	408106	4.43	895166	5.49	477795	7.04	775709	8.47	457116	11.24	1133539	12.75
ZZZZZZ	422012	4.43	919748	5.49	492865	7.04	791178	8.47	442528	11.24	1073061	12.75
ZZZZZZ	411121	4.43	895810	5.49	481832	7.04	776329	8.47	460745	11.24	1126800	12.75
ZZZZZZ	406711	4.43	896042	5.49	475289	7.04	774775	8.47	447988	11.24	1089645	12.75
ZZZZZZ	414775	4.43	919998	5.49	494883	7.04	793790	8.47	460785	11.24	1085543	12.75
ZZZZZZ	415394	4.43	916947	5.49	494580	7.04	801904	8.47	482972	11.24	1141153	12.75

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC27954
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSI3241-CC3238	**Injection Date:**	01/31/14
Lab File ID:	I87167.D	**Injection Time:**	13:32
Instrument ID:	GCMSI	**Method:**	SW846 8270D BY SIM

Lab	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
Sample ID	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT

(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC27954
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSW769-CC768	**Injection Date:**	01/31/14
Lab File ID:	W17504.D	**Injection Time:**	14:03
Instrument ID:	GCMSW	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	127972	4.43	485501	5.50	334388	7.04	591866	8.34	597548	11.03	565363	12.80
Upper Limit [a]	255944	4.93	971002	6.00	668776	7.54	1183732	8.84	1195096	11.53	1130726	13.30
Lower Limit [b]	63986	3.93	242751	5.00	167194	6.54	295933	7.84	298774	10.53	282682	12.30

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
ZZZZZZ	99524	4.43	380576	5.50	256672	7.04	451897	8.33	473715	11.02	450981	12.79
OP36696-MB	122189	4.43	468126	5.50	314512	7.04	534810	8.34	557696	11.02	507871	12.79
OP36696-BS	120938	4.43	452433	5.50	309501	7.04	547614	8.34	556140	11.03	512591	12.79
OP36696-MS1	116668	4.43	434416	5.50	310319	7.04	506919	8.34	524219	11.03	495638	12.80
OP36696-MSD1	107431	4.43	407960	5.50	268557	7.04	462763	8.34	478038	11.03	452505	12.80
MC27977-1	105019	4.43	397827	5.50	269803	7.04	460242	8.34	479909	11.03	453703	12.79
ZZZZZZ	113960	4.43	423479	5.50	284797	7.04	489764	8.34	494820	11.02	465494	12.79
ZZZZZZ	117920	4.43	430231	5.50	285216	7.04	481414	8.34	487894	11.03	457188	12.79
ZZZZZZ	109463	4.43	413642	5.50	283463	7.04	469850	8.34	497598	11.02	462193	12.79
ZZZZZZ	118138	4.43	453493	5.50	290057	7.04	488959	8.34	490112	11.03	458896	12.80
MC27954-1	138491	4.43	518874	5.50	342103	7.04	571821	8.34	590476	11.02	548644	12.79
MC27954-2	128565	4.43	482434	5.50	318222	7.04	524619	8.34	524673	11.02	492702	12.79
MC27954-3	127617	4.43	475544	5.50	304916	7.04	503618	8.34	496909	11.03	468850	12.80
ZZZZZZ	115279	4.43	444808	5.50	299639	7.04	513205	8.34	522614	11.02	477473	12.79
ZZZZZZ	117456	4.43	441651	5.50	290607	7.04	487510	8.33	464333	11.02	430642	12.79
ZZZZZZ	116556	4.43	453160	5.50	302217	7.04	527013	8.33	541412	11.02	512409	12.79
ZZZZZZ	133300	4.43	499647	5.50	333145	7.04	569029	8.33	581304	11.02	547796	12.79
ZZZZZZ	183163	4.43	682316	5.50	441310	7.04	733255	8.33	698534	11.02	639754	12.79
ZZZZZZ	152850	4.43	544393	5.50	354327	7.04	571235	8.34	598677	11.02	581314	12.79

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Surrogate Recovery Summary

Job Number: MC27954
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Method: SW846 8270D **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
MC27954-1	W17515.D	24	20	58	41	33	58
MC27954-2	W17516.D	44	33	87	75	53	88
MC27954-3	W17517.D	47	35	88	69	53	82
OP36696-BS	W17507.D	54	37	94	86	82	92
OP36696-MB	W17506.D	48	33	88	78	76	89
OP36696-MS1	W17508.D	51	41	82	81	61	80
OP36696-MSD1	W17509.D	50	49	95	88	77	92

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	15-110%
S2 = Phenol-d5	15-110%
S3 = 2,4,6-Tribromophenol	15-110%
S4 = Nitrobenzene-d5	30-130%
S5 = 2-Fluorobiphenyl	30-130%
S6 = Terphenyl-d14	30-130%

Semivolatile Surrogate Recovery Summary

Job Number: MC27954
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Method: SW846 8270D BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC27954-1	I87180.D	45	32	57
MC27954-2	I87181.D	78	50	82
MC27954-3	I87182.D	71	51	77
OP36697-BS	I87171.D	86	77	89
OP36697-MB	I87170.D	78	70	85
OP36697-MS1	I87172.D	78	61	77
OP36697-MSD1	I87173.D	83	72	89

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	30-130%
S2 = 2-Fluorobiphenyl	30-130%
S3 = Terphenyl-d14	30-130%

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries

Method Blank Summary

Job Number: MC27954
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36715-MB	BK34385.D	1	01/31/14	NK	01/30/14	OP36715	GBK1134

The QC reported here applies to the following samples: **Method:** SW846 8011

MC27954-1, MC27954-2, MC27954-3, MC27954-5

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0054	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.011	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	Bromofluorobenzene (S)	92%	36-173%
460-00-4	Bromofluorobenzene (S)	79%	36-173%

Blank Spike Summary

Job Number: MC27954
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36715-BS	BK34386.D	1	01/31/14	NK	01/30/14	OP36715	GBK1134

The QC reported here applies to the following samples: **Method:** SW846 8011

MC27954-1, MC27954-2, MC27954-3, MC27954-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
96-12-8	1,2-Dibromo-3-chloropropane	0.071	0.062	87	60-140
106-93-4	1,2-Dibromoethane	0.071	0.067	94	60-140

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	Bromofluorobenzene (S)	82%	36-173%
460-00-4	Bromofluorobenzene (S)	73%	36-173%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27954
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36715-MS	BK34387.D	1	01/31/14	NK	01/30/14	OP36715	GBK1134
OP36715-MSD	BK34388.D	1	01/31/14	NK	01/30/14	OP36715	GBK1134
MC27977-1	BK34389.D	1	01/31/14	NK	01/30/14	OP36715	GBK1134

The QC reported here applies to the following samples: **Method:** SW846 8011

MC27954-1, MC27954-2, MC27954-3, MC27954-5

CAS No.	Compound	MC27977-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
96-12-8	1,2-Dibromo-3-chloropropane	ND		0.0686	0.069	101	0.067	0.058	87	17	64-141/29
106-93-4	1,2-Dibromoethane	ND		0.0686	0.065	95	0.067	0.065	97	0	63-163/27

CAS No.	Surrogate Recoveries	MS	MSD	MC27977-1	Limits
460-00-4	Bromofluorobenzene (S)	84%	86%	73%	36-173%
460-00-4	Bromofluorobenzene (S)	87%	76%	78%	36-173%

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: MC27954
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Method: SW846 8011 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]
MC27954-1	BK34410.D	86	84
MC27954-2	BK34411.D	86	81
MC27954-3	BK34412.D	86	37
MC27954-5	BK34413.D	80	63
OP36715-BS	BK34386.D	82	73
OP36715-MB	BK34385.D	92	79
OP36715-MS	BK34387.D	84	87
OP36715-MSD	BK34388.D	86	76

Surrogate Compounds	Recovery Limits
S1 = Bromofluorobenzene (S)	36-173%

(a) Recovery from GC signal #2
(b) Recovery from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC27954
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	GBK1134-ICC1134	**Injection Date:**	01/31/14
Lab File ID:	BK34380.D	**Injection Time:**	09:07
Instrument ID:	GCBK	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.39	4.45

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
ZZZZZZ	BK34383A.D	01/31/14	10:15	4.39	4.45
OP36715-MB	BK34385.D	01/31/14	11:01	4.39	4.45
OP36715-BS	BK34386.D	01/31/14	11:23	4.39	4.45
OP36715-MS	BK34387.D	01/31/14	11:46	4.39	4.45
OP36715-MSD	BK34388.D	01/31/14	12:09	4.39	4.45
MC27977-1	BK34389.D	01/31/14	12:32	4.39	4.45
ZZZZZZ	BK34390.D	01/31/14	12:55	4.38	4.46
ZZZZZZ	BK34391.D	01/31/14	13:18	4.40	4.47
ZZZZZZ	BK34392.D	01/31/14	13:41	4.39	4.46
ZZZZZZ	BK34393.D	01/31/14	14:12	4.39	4.45
ZZZZZZ	BK34394.D	01/31/14	14:35	4.39	4.45

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC27954
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	GBK1134-CC1134	**Injection Date:**	01/31/14
Lab File ID:	BK34406.D	**Injection Time:**	19:10
Instrument ID:	GCBK	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.39	4.45

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
ZZZZZZ	BK34407.D	01/31/14	19:33	4.39	4.45
ZZZZZZ	BK34408.D	01/31/14	19:57	4.39	4.45
ZZZZZZ	BK34409.D	01/31/14	20:20	4.39	4.45
MC27954-1	BK34410.D	01/31/14	20:43	4.39	4.45
MC27954-2	BK34411.D	01/31/14	21:06	4.39	4.45
MC27954-3	BK34412.D	01/31/14	21:28	4.39	4.45
MC27954-5	BK34413.D	01/31/14	21:51	4.39	4.45
GBK1134-ECC1134	BK34414.D	01/31/14	22:14	4.39	4.45

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.

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Automated Report

Technical Report for

Shell Oil

URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana,



SGS Accutest Job Number: MC27977

Sampling Date: 01/29/14

Report to:

AECOM, INC.

Melissa.mansker@aecom.com

ATTN: Melissa Mansker

Total number of pages in report: 180

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

H. (Brad) Madadian
Lab Director

Client Service contact: Jeremy Vienneau 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO (MA00136) MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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Test results relate only to samples analyzed.

SGS Accutest is the sole authority for authorizing edits or modifications to this document.
Unauthorized modification of this report is strictly prohibited.

SGS ACCUTEST

October 28, 2016

AECOM
1001 Highlands Plaza Drive West Suite 300
St. Louis, MO 63110

RE: SGS Accutest Job # MC27977

Dear Elizabeth Kunkel

As you are aware, SGS Accutest Inc. - Marlborough has been conducting an extensive review of data associated with some historical Gas Chromatography-Mass Spectroscopy volatiles analyses. As a result of this review it was determined that some revisions of the original test report for this job were needed. These corrections have been incorporated into the revised report.

Please be assured that corrective actions have been put in place to address this matter and prevent a recurrence.

We apologize for any inconvenience that this issue may have caused. Please don't hesitate to contact us if we can be of further assistance.

Sincerely,

H. (Brad) Madadian

Regional Laboratory Director
SGS Accutest Inc. - Marlborough

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.

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Sample Summary

Shell Oil

Job No: MC27977

URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC27977-1	01/29/14	09:50	LRKH	01/30/14	AQ	Ground Water	P66-ROX-012914
MC27977-1D	01/29/14	09:50	LRKH	01/30/14	AQ	Water Dup/MSD	P66-ROX-012914
MC27977-1S	01/29/14	09:50	LRKH	01/30/14	AQ	Water Matrix Spike	P66-ROX-012914
MC27977-2	01/29/14	10:20	LRKH	01/30/14	AQ	Equipment Blank	MW14-ROX-012914-EB
MC27977-3	01/29/14	10:55	LRKH	01/30/14	AQ	Ground Water	MW14-ROX-012914
MC27977-4	01/29/14	13:05	LRKH	01/30/14	AQ	Ground Water	P93A-ROX-012914
MC27977-5	01/29/14	15:30	LRKH	01/30/14	AQ	Ground Water	MW13-ROX-012914
MC27977-6	01/29/14	00:00	LRKH	01/30/14	AQ	Trip Blank Water	TB-ROX-012914-HCL
MC27977-7	01/29/14	00:00	LRKH	01/30/14	AQ	Trip Blank Water	TB-ROX-012914-ST

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: She O **Job No** MC27977

Site: URSMOSTL:Roxana Q 4 GW/ 2 562973 0300 900 South Centra **Report Date** 0/28/20 6 7:30: 9 P

5 Samp e(s), 2 Tr p B ank(s) and 0 F e d B ank(s) were co ected on 0 /29/20 4 and were rece ved at SGS Accutest New Eng and on 0 /30/20 4 proper y preserved, at 0 Deg C and ntact These Samp es rece ved a job number of MC27977 A st ng of the Laboratory Samp e ID, C ent Samp e ID and dates of co ect on are presented n the Resu ts Summary Sect on of th s repo t - Ch orohexane, Benzeneth o , D benz(a,h)acr d ne, Indene and Qu no ne were searched n the brary search and reported on y f detect ons were found

Except as noted be ow, a method spec f ed ca brat ons and qua ty contro performance cr ter a were met for th s job For more nformat on, p ease refer to QC summary pages

Volatiles by GCMS By Method SW846 8260C

Matrix: AQ **Batch ID:** MSV 04

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC27977- MS, MC27977- MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a
- B ank Sp ke Recove y(s) for 2,2-D ch oropropane are outs de contro m ts
- Matr x Sp ke/Matr x Sp ke Dup cate Recovery(s) for Isopropy benzene, n-Propy benzene are outs de contro m ts Outs de contro m ts due to h gh eve n samp e re at ve to sp ke amount
- MSV 04 -BS/BSD for 2-Ch oroethy v ny ether: Outs de contro m ts Assoc ated samp es are non-detect for th s compound
- Methy Tert Buty Ether: Cont nu ng Ca brat on outs de of acceptance cr ter a Samp e resu t may be b ased h gh
- MC27977- MS/MSD for Methy Tert Buty Ether, V ny Acetate, Acry on tr e, 2-ch oroethy v ny ether: Outs de contro m ts due to poss b e matr x nterference Refer to B ank Sp ke

Matrix: AQ **Batch ID:** MSV 042

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC28049-3MS, MC28049-3MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a
- B ank Sp ke Recove y(s) for 2,2-D ch oropropane are outs de contro m ts
- Matr x Sp ke Recovery(s) for Ch oroethane, 2,2-D ch oropropane, 2-Ch oroethy v ny ether, D ch orod f uoromethane, Methy Tert Buty Ether are outs de contro m ts Outs de contro m ts due to poss b e matr x nte ference
- Matr x Sp ke Dup cate Recovery(s) for 2,2-D ch oropropane, 2-Ch oroethy v ny ether are outs de contro m ts Probab e cause due to matr x nterference
- MSV 042-BS/BSD for 2-Ch oroethy v ny ether: Outs de contro m ts Assoc ated samp es are non-detect for th s compound
- D ch orod f uoromethane: Cont nu ng Ca brat on outs de of acceptance cr ter a Samp e resu t may be b ased ow

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP36696

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- A method b anks for th s batch meet method spec f c cr ter a
- Samp e(s) MC27977- MS, MC27977- MSD were used as the QC samp es nd cated
- Matr x Sp ke Recovery(s) for Benzo c Ac d, Hexach orocyc opentad ene are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference
- Matr x Sp ke Dup cate Recovery(s) for Hexach orocyc opentad ene, 3,3'-D ch orobenz d ne are outs de contro m ts H gh RPD due to poss b e matr x nterference and/or samp e non-homogene ty
- RPD(s) for MSD for 2,4-D n tropheno , 3,3'-D ch orobenz d ne, Benzo c Ac d are outs de contro m ts for samp e OP36696-MSD H gh RPD due to poss b e matr x nterference and/or samp e non-homogene ty

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP36697

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC27977- MS, MC27977- MSD were used as the QC samp es nd cated
- Samp e(s) MC27977-2, MC27977-4 have compound(s) repo ted w th a "B" qua f er, nd cat ng ana yte s found n the assoc ated method b ank

Volatiles by GC By Method SW846 8011

Matrix: AQ **Batch ID:** OP367 5

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC27977- MS, MC27977- MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a

SGS Accutest New Eng and ce t f es that a ana ys s were performed w th n method spec f cat on It s further recommended that th s report to be used n ts ent rety The Laborato y D rector for SGS Accutest New Eng and or ass gnee as ver f ed by the s gnature on the cover page has author zed the re ease of th s report(MC27977)

Summary of Hits

Job Number: MC27977
Account: Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL
Collected: 01/29/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC27977-1	P66-ROX-012914					
Benzene		8.0	0.50	0.45	ug/l	SW846 8260C
n-Butylbenzene		16.0	5.0	0.54	ug/l	SW846 8260C
sec-Butylbenzene		20.5	5.0	0.58	ug/l	SW846 8260C
tert-Butylbenzene		5.3	5.0	0.87	ug/l	SW846 8260C
Ethylbenzene		1.3	1.0	0.38	ug/l	SW846 8260C
Isopropylbenzene		131	5.0	0.64	ug/l	SW846 8260C
n-Propylbenzene		157	5.0	0.59	ug/l	SW846 8260C
Toluene		1.7	1.0	0.46	ug/l	SW846 8260C
o-Xylene		4.5	1.0	0.41	ug/l	SW846 8260C
Xylene (total)		4.5	1.0	0.41	ug/l	SW846 8260C
Dibenzofuran		1.9 J	2.1	0.17	ug/l	SW846 8270D
Acenaphthene		0.99	0.11	0.073	ug/l	SW846 8270D BY SIM
Acenaphthylene		0.32	0.11	0.053	ug/l	SW846 8270D BY SIM
Benzo(a)anthracene		0.039 J	0.053	0.021	ug/l	SW846 8270D BY SIM
Benzo(a)pyrene		0.044 J	0.11	0.031	ug/l	SW846 8270D BY SIM
Benzo(b)fluoranthene		0.048 J	0.053	0.034	ug/l	SW846 8270D BY SIM
Benzo(g,h,i)perylene		0.052 J	0.11	0.029	ug/l	SW846 8270D BY SIM
Chrysene		0.047 J	0.11	0.025	ug/l	SW846 8270D BY SIM
Dibenzo(a,h)anthracene		0.035 J	0.11	0.034	ug/l	SW846 8270D BY SIM
Fluoranthene		0.065 J	0.11	0.043	ug/l	SW846 8270D BY SIM
Fluorene		1.6	0.11	0.11	ug/l	SW846 8270D BY SIM
Indeno(1,2,3-cd)pyrene		0.041 J	0.11	0.033	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene		70.1	0.21	0.053	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		28.4	0.21	0.079	ug/l	SW846 8270D BY SIM
Phenanthrene		0.77	0.053	0.013	ug/l	SW846 8270D BY SIM
Pyrene		0.099 J	0.11	0.041	ug/l	SW846 8270D BY SIM
MC27977-2	MW14-ROX-012914-EB					
1-Methylnaphthalene		0.085 J	0.22	0.054	ug/l	SW846 8270D BY SIM
Phenanthrene		0.022 JB	0.054	0.014	ug/l	SW846 8270D BY SIM
MC27977-3	MW14-ROX-012914					
sec-Butylbenzene		1.3 J	5.0	0.58	ug/l	SW846 8260C
Isopropylbenzene		3.6 J	5.0	0.64	ug/l	SW846 8260C
n-Propylbenzene		2.0 J	5.0	0.59	ug/l	SW846 8260C
Di-n-butyl phthalate		0.45 J	5.4	0.42	ug/l	SW846 8270D
bis(2-Ethylhexyl)phthalate		0.56 J	2.2	0.53	ug/l	SW846 8270D
Acenaphthene		0.62	0.11	0.074	ug/l	SW846 8270D BY SIM
Acenaphthylene		0.12	0.11	0.053	ug/l	SW846 8270D BY SIM
Fluorene		0.41	0.11	0.11	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene		7.5	0.22	0.054	ug/l	SW846 8270D BY SIM

Summary of Hits

Job Number: MC27977
Account: Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL
Collected: 01/29/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC27977-4	**P93A-ROX-012914**					
Benzene		136000	250	230	ug/l	SW846 8260C
Phenol		105	5.4	0.56	ug/l	SW846 8270D
Acenaphthene		0.22	0.11	0.075	ug/l	SW846 8270D BY SIM
Fluorene		0.32	0.11	0.11	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene		13.3	0.22	0.054	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		7.2	0.22	0.081	ug/l	SW846 8270D BY SIM
Phenanthrene		0.22 B	0.054	0.014	ug/l	SW846 8270D BY SIM
MC27977-5	**MW13-ROX-012914**					
Methyl Tert Butyl Ether [a]		8.0	1.0	0.43	ug/l	SW846 8260C
1-Methylnaphthalene		0.096 J	0.22	0.055	ug/l	SW846 8270D BY SIM
MC27977-6	**TB-ROX-012914-HCL**					
No hits reported in this sample.						
MC27977-7	**TB-ROX-012914-ST**					
No hits reported in this sample.						

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased high.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	P66-ROX-012914		
Lab Sample ID:	MC27977-1	**Date Sampled:**	01/29/14
Matrix:	AQ - Ground Water	**Date Received:**	01/30/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V27616.D	1	02/04/14	AMY	n/a	n/a	MSV1041
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	8.0	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
104-51-8	n-Butylbenzene	16.0	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	20.5	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	5.3	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P66-ROX-012914		
Lab Sample ID:	MC27977-1	**Date Sampled:**	01/29/14
Matrix:	AQ - Ground Water	**Date Received:**	01/30/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
123-91-1	1,4-Dioxane	ND	25	16	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	1.3	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
98-82-8	Isopropylbenzene	131	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	157	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	1.7	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.70	ug/l	
95-47-6	o-Xylene	4.5	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	4.5	1.0	0.41	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P66-ROX-012914		
Lab Sample ID:	MC27977-1	**Date Sampled:**	01/29/14
Matrix:	AQ - Ground Water	**Date Received:**	01/30/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		70-130%
2037-26-5	Toluene-D8	106%		70-130%
460-00-4	4-Bromofluorobenzene	104%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P66-ROX-012914		
Lab Sample ID:	MC27977-1	**Date Sampled:**	01/29/14
Matrix:	AQ - Ground Water	**Date Received:**	01/30/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W17510.D	1	01/31/14	KR	01/30/14	OP36696	MSW769
Run #2							

	Initial Volume	Final Volume
Run #1	940 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.3	0.41	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.52	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.35	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	1.3	ug/l	
95-48-7	2-Methylphenol	ND	11	1.4	ug/l	
	3&4-Methylphenol	ND	11	2.2	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.53	ug/l	
100-02-7	4-Nitrophenol	ND	21	0.62	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.3	ug/l	
108-95-2	Phenol	ND	5.3	0.54	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.61	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.34	ug/l	
62-53-3	Aniline	ND	11	0.68	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	0.22	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.3	0.91	ug/l	
100-51-6	Benzyl Alcohol	ND	11	0.61	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	0.98	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.27	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	0.22	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	0.25	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	0.14	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	0.21	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.3	0.69	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.72	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.68	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	0.53	ug/l	
132-64-9	Dibenzofuran	1.9	2.1	0.17	ug/l	J
84-74-2	Di-n-butyl phthalate	ND	5.3	0.41	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.3	0.46	ug/l	

ND = Not detected MDL = Method Detection Limit
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E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P66-ROX-012914		
Lab Sample ID:	MC27977-1	**Date Sampled:**	01/29/14
Matrix:	AQ - Ground Water	**Date Received:**	01/30/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.3	0.53	ug/l	
131-11-3	Dimethyl phthalate	ND	5.3	0.53	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.52	ug/l	
118-74-1	Hexachlorobenzene	ND	5.3	0.32	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.7	ug/l	
67-72-1	Hexachloroethane	ND	5.3	0.47	ug/l	
78-59-1	Isophorone	ND	5.3	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.30	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.53	ug/l	
100-01-6	4-Nitroaniline	ND	11	4.6	ug/l	
98-95-3	Nitrobenzene	ND	5.3	0.26	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.3	0.53	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	0.86	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.58	ug/l	
110-86-1	Pyridine	ND	11	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	47%		15-110%
4165-62-2	Phenol-d5	36%		15-110%
118-79-6	2,4,6-Tribromophenol	78%		15-110%
4165-60-0	Nitrobenzene-d5	84%		30-130%
321-60-8	2-Fluorobiphenyl	75%		30-130%
1718-51-0	Terphenyl-d14	85%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

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E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P66-ROX-012914		
Lab Sample ID:	MC27977-1	**Date Sampled:**	01/29/14
Matrix:	AQ - Ground Water	**Date Received:**	01/30/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I87174.D	1	01/31/14	KR	01/30/14	OP36697	MSI3241
Run #2							

	Initial Volume	Final Volume
Run #1	940 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.99	0.11	0.073	ug/l	
208-96-8	Acenaphthylene	0.32	0.11	0.053	ug/l	
120-12-7	Anthracene	ND	0.11	0.098	ug/l	
56-55-3	Benzo(a)anthracene	0.039	0.053	0.021	ug/l	J
50-32-8	Benzo(a)pyrene	0.044	0.11	0.031	ug/l	J
205-99-2	Benzo(b)fluoranthene	0.048	0.053	0.034	ug/l	J
191-24-2	Benzo(g,h,i)perylene	0.052	0.11	0.029	ug/l	J
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.041	ug/l	
218-01-9	Chrysene	0.047	0.11	0.025	ug/l	J
53-70-3	Dibenzo(a,h)anthracene	0.035	0.11	0.034	ug/l	J
206-44-0	Fluoranthene	0.065	0.11	0.043	ug/l	J
86-73-7	Fluorene	1.6	0.11	0.11	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.041	0.11	0.033	ug/l	J
90-12-0	1-Methylnaphthalene	70.1	0.21	0.053	ug/l	
91-57-6	2-Methylnaphthalene	28.4	0.21	0.079	ug/l	
85-01-8	Phenanthrene	0.77	0.053	0.013	ug/l	
129-00-0	Pyrene	0.099	0.11	0.041	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	82%		30-130%
321-60-8	2-Fluorobiphenyl	70%		30-130%
1718-51-0	Terphenyl-d14	83%		30-130%

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P66-ROX-012914		
Lab Sample ID:	MC27977-1	**Date Sampled:**	01/29/14
Matrix:	AQ - Ground Water	**Date Received:**	01/30/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK34389.D	1	01/31/14	NK	01/30/14	OP36715	GBK1134
Run #2							

	Initial Volume	Final Volume
Run #1	36.6 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.014	0.0052	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	73%		36-173%
460-00-4	Bromofluorobenzene (S)	78%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW14-ROX-012914-EB		
Lab Sample ID:	MC27977-2	**Date Sampled:**	01/29/14
Matrix:	AQ - Equipment Blank	**Date Received:**	01/30/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V27612.D	1	02/04/14	AMY	n/a	n/a	MSV1041
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW14-ROX-012914-EB		
Lab Sample ID:	MC27977-2	**Date Sampled:**	01/29/14
Matrix:	AQ - Equipment Blank	**Date Received:**	01/30/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
123-91-1	1,4-Dioxane	ND	25	16	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.70	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW14-ROX-012914-EB		
Lab Sample ID:	MC27977-2	**Date Sampled:**	01/29/14
Matrix:	AQ - Equipment Blank	**Date Received:**	01/30/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		70-130%
2037-26-5	Toluene-D8	99%		70-130%
460-00-4	4-Bromofluorobenzene	104%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW14-ROX-012914-EB		
Lab Sample ID:	MC27977-2	**Date Sampled:**	01/29/14
Matrix:	AQ - Equipment Blank	**Date Received:**	01/30/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W17511.D	1	01/31/14	KR	01/30/14	OP36696	MSW769
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	1.4	ug/l	
95-57-8	2-Chlorophenol	ND	5.4	0.42	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.53	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.36	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	1.3	ug/l	
95-48-7	2-Methylphenol	ND	11	1.4	ug/l	
	3&4-Methylphenol	ND	11	2.2	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.54	ug/l	
100-02-7	4-Nitrophenol	ND	22	0.63	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.4	ug/l	
108-95-2	Phenol	ND	5.4	0.56	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.62	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.34	ug/l	
62-53-3	Aniline	ND	11	0.69	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.4	0.22	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.4	0.93	ug/l	
100-51-6	Benzyl Alcohol	ND	11	0.62	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.4	1.0	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.27	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.4	0.23	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.4	0.25	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.4	0.15	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.4	0.22	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.4	0.71	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.73	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.70	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.4	0.54	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.17	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.4	0.42	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.4	0.47	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW14-ROX-012914-EB		
Lab Sample ID:	MC27977-2	**Date Sampled:**	01/29/14
Matrix:	AQ - Equipment Blank	**Date Received:**	01/30/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.4	0.54	ug/l	
131-11-3	Dimethyl phthalate	ND	5.4	0.54	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.53	ug/l	
118-74-1	Hexachlorobenzene	ND	5.4	0.32	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.7	ug/l	
67-72-1	Hexachloroethane	ND	5.4	0.48	ug/l	
78-59-1	Isophorone	ND	5.4	0.22	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.30	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.54	ug/l	
100-01-6	4-Nitroaniline	ND	11	4.7	ug/l	
98-95-3	Nitrobenzene	ND	5.4	0.27	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.4	0.54	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.4	0.88	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.4	0.59	ug/l	
110-86-1	Pyridine	ND	11	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	33%		15-110%
4165-62-2	Phenol-d5	24%		15-110%
118-79-6	2,4,6-Tribromophenol	73%		15-110%
4165-60-0	Nitrobenzene-d5	56%		30-130%
321-60-8	2-Fluorobiphenyl	54%		30-130%
1718-51-0	Terphenyl-d14	95%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
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E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW14-ROX-012914-EB		
Lab Sample ID:	MC27977-2	**Date Sampled:**	01/29/14
Matrix:	AQ - Equipment Blank	**Date Received:**	01/30/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I87175.D	1	01/31/14	KR	01/30/14	OP36697	MSI3241
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.11	0.075	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.054	ug/l	
120-12-7	Anthracene	ND	0.11	0.10	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.054	0.021	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.031	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.054	0.034	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.029	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.042	ug/l	
218-01-9	Chrysene	ND	0.11	0.026	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.035	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.044	ug/l	
86-73-7	Fluorene	ND	0.11	0.11	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.033	ug/l	
90-12-0	1-Methylnaphthalene	0.085	0.22	0.054	ug/l	J
91-57-6	2-Methylnaphthalene	ND	0.22	0.081	ug/l	
85-01-8	Phenanthrene	0.022	0.054	0.014	ug/l	JB
129-00-0	Pyrene	ND	0.11	0.042	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	58%		30-130%
321-60-8	2-Fluorobiphenyl	51%		30-130%
1718-51-0	Terphenyl-d14	87%		30-130%

ND = Not detected MDL = Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW14-ROX-012914-EB		
Lab Sample ID:	MC27977-2	**Date Sampled:**	01/29/14
Matrix:	AQ - Equipment Blank	**Date Received:**	01/30/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK34393.D	1	01/31/14	NK	01/30/14	OP36715	GBK1134
Run #2							

	Initial Volume	Final Volume
Run #1	35.7 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0053	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	96%		36-173%
460-00-4	Bromofluorobenzene (S)	87%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW14-ROX-012914		
Lab Sample ID:	MC27977-3	**Date Sampled:**	01/29/14
Matrix:	AQ - Ground Water	**Date Received:**	01/30/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V27617.D	1	02/04/14	AMY	n/a	n/a	MSV1041
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	1.3	5.0	0.58	ug/l	J
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW14-ROX-012914		
Lab Sample ID:	MC27977-3	**Date Sampled:**	01/29/14
Matrix:	AQ - Ground Water	**Date Received:**	01/30/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
123-91-1	1,4-Dioxane	ND	25	16	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
98-82-8	Isopropylbenzene	3.6	5.0	0.64	ug/l	J
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	2.0	5.0	0.59	ug/l	J
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.70	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW14-ROX-012914		
Lab Sample ID:	MC27977-3	**Date Sampled:**	01/29/14
Matrix:	AQ - Ground Water	**Date Received:**	01/30/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		70-130%
2037-26-5	Toluene-D8	100%		70-130%
460-00-4	4-Bromofluorobenzene	104%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW14-ROX-012914		
Lab Sample ID:	MC27977-3	**Date Sampled:**	01/29/14
Matrix:	AQ - Ground Water	**Date Received:**	01/30/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W17512.D	1	01/31/14	KR	01/30/14	OP36696	MSW769
Run #2							

	Initial Volume	Final Volume
Run #1	930 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.4	0.41	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.53	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.35	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	1.3	ug/l	
95-48-7	2-Methylphenol	ND	11	1.4	ug/l	
	3&4-Methylphenol	ND	11	2.2	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.54	ug/l	
100-02-7	4-Nitrophenol	ND	22	0.63	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.3	ug/l	
108-95-2	Phenol	ND	5.4	0.55	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.62	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.34	ug/l	
62-53-3	Aniline	ND	11	0.69	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.4	0.22	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.4	0.92	ug/l	
100-51-6	Benzyl Alcohol	ND	11	0.62	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.4	0.99	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.27	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.4	0.23	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.4	0.25	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.4	0.14	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.4	0.21	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.4	0.70	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.73	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.69	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.4	0.54	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.17	ug/l	
84-74-2	Di-n-butyl phthalate	0.45	5.4	0.42	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.4	0.47	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW14-ROX-012914		
Lab Sample ID:	MC27977-3	**Date Sampled:**	01/29/14
Matrix:	AQ - Ground Water	**Date Received:**	01/30/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.4	0.54	ug/l	
131-11-3	Dimethyl phthalate	ND	5.4	0.54	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	0.56	2.2	0.53	ug/l	J
118-74-1	Hexachlorobenzene	ND	5.4	0.32	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.7	ug/l	
67-72-1	Hexachloroethane	ND	5.4	0.47	ug/l	
78-59-1	Isophorone	ND	5.4	0.22	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.30	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.54	ug/l	
100-01-6	4-Nitroaniline	ND	11	4.7	ug/l	
98-95-3	Nitrobenzene	ND	5.4	0.27	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.4	0.54	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.4	0.87	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.4	0.58	ug/l	
110-86-1	Pyridine	ND	11	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	39%		15-110%
4165-62-2	Phenol-d5	33%		15-110%
118-79-6	2,4,6-Tribromophenol	88%		15-110%
4165-60-0	Nitrobenzene-d5	72%		30-130%
321-60-8	2-Fluorobiphenyl	73%		30-130%
1718-51-0	Terphenyl-d14	94%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW14-ROX-012914		
Lab Sample ID:	MC27977-3	**Date Sampled:**	01/29/14
Matrix:	AQ - Ground Water	**Date Received:**	01/30/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I87176.D	1	01/31/14	KR	01/30/14	OP36697	MSI3241
Run #2							

	Initial Volume	Final Volume
Run #1	930 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.62	0.11	0.074	ug/l	
208-96-8	Acenaphthylene	0.12	0.11	0.053	ug/l	
120-12-7	Anthracene	ND	0.11	0.099	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.054	0.021	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.031	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.054	0.034	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.029	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.042	ug/l	
218-01-9	Chrysene	ND	0.11	0.026	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.034	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.044	ug/l	
86-73-7	Fluorene	0.41	0.11	0.11	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.033	ug/l	
90-12-0	1-Methylnaphthalene	7.5	0.22	0.054	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.22	0.080	ug/l	
85-01-8	Phenanthrene	ND	0.054	0.014	ug/l	
129-00-0	Pyrene	ND	0.11	0.041	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	77%		30-130%
321-60-8	2-Fluorobiphenyl	67%		30-130%
1718-51-0	Terphenyl-d14	90%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW14-ROX-012914		
Lab Sample ID:	MC27977-3	**Date Sampled:**	01/29/14
Matrix:	AQ - Ground Water	**Date Received:**	01/30/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK34394.D	1	01/31/14	NK	01/30/14	OP36715	GBK1134
Run #2							

	Initial Volume	Final Volume
Run #1	35.2 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0054	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	91%		36-173%
460-00-4	Bromofluorobenzene (S)	82%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93A-ROX-012914		
Lab Sample ID:	MC27977-4	**Date Sampled:**	01/29/14
Matrix:	AQ - Ground Water	**Date Received:**	01/30/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V27647.D	500	02/05/14	AMY	n/a	n/a	MSV1042
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5000	1400	ug/l	
107-02-8	Acrolein	ND	13000	3100	ug/l	
107-13-1	Acrylonitrile	ND	2500	1800	ug/l	
71-43-2	Benzene	136000	250	230	ug/l	
108-86-1	Bromobenzene	ND	2500	220	ug/l	
74-97-5	Bromochloromethane	ND	2500	320	ug/l	
75-27-4	Bromodichloromethane	ND	500	170	ug/l	
75-25-2	Bromoform	ND	500	210	ug/l	
74-83-9	Bromomethane	ND	1000	760	ug/l	
78-93-3	2-Butanone (MEK)	ND	2500	800	ug/l	
104-51-8	n-Butylbenzene	ND	2500	270	ug/l	
135-98-8	sec-Butylbenzene	ND	2500	290	ug/l	
98-06-6	tert-Butylbenzene	ND	2500	440	ug/l	
75-15-0	Carbon disulfide	ND	2500	300	ug/l	
56-23-5	Carbon tetrachloride	ND	500	310	ug/l	
108-90-7	Chlorobenzene	ND	500	240	ug/l	
75-00-3	Chloroethane	ND	1000	420	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	2500	630	ug/l	
67-66-3	Chloroform	ND	500	250	ug/l	
74-87-3	Chloromethane	ND	1000	720	ug/l	
95-49-8	o-Chlorotoluene	ND	2500	270	ug/l	
106-43-4	p-Chlorotoluene	ND	2500	240	ug/l	
124-48-1	Dibromochloromethane	ND	500	160	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	500	170	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	500	150	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	500	130	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	1000	600	ug/l	
75-34-3	1,1-Dichloroethane	ND	500	190	ug/l	
107-06-2	1,2-Dichloroethane	ND	500	180	ug/l	
75-35-4	1,1-Dichloroethene	ND	500	330	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	500	270	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	500	270	ug/l	

ND = Not detected MDL = Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93A-ROX-012914		
Lab Sample ID:	MC27977-4	**Date Sampled:**	01/29/14
Matrix:	AQ - Ground Water	**Date Received:**	01/30/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1000	230	ug/l	
142-28-9	1,3-Dichloropropane	ND	2500	480	ug/l	
594-20-7	2,2-Dichloropropane	ND	2500	630	ug/l	
563-58-6	1,1-Dichloropropene	ND	2500	320	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	250	110	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	250	140	ug/l	
123-91-1	1,4-Dioxane	ND	13000	7800	ug/l	
97-63-2	Ethyl methacrylate	ND	2500	400	ug/l	
100-41-4	Ethylbenzene	ND	500	190	ug/l	
87-68-3	Hexachlorobutadiene	ND	2500	630	ug/l	
591-78-6	2-Hexanone	ND	2500	1100	ug/l	
98-82-8	Isopropylbenzene	ND	2500	320	ug/l	
99-87-6	p-Isopropyltoluene	ND	2500	270	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	500	220	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2500	640	ug/l	
74-95-3	Methylene bromide	ND	2500	210	ug/l	
75-09-2	Methylene chloride	ND	1000	200	ug/l	
91-20-3	Naphthalene	ND	2500	390	ug/l	
103-65-1	n-Propylbenzene	ND	2500	290	ug/l	
100-42-5	Styrene	ND	2500	240	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	500	230	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	250	210	ug/l	
127-18-4	Tetrachloroethene	ND	500	310	ug/l	
108-88-3	Toluene	ND	500	230	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2500	380	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2500	230	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	500	470	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	500	250	ug/l	
79-01-6	Trichloroethene	ND	500	220	ug/l	
75-69-4	Trichlorofluoromethane	ND	500	310	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2500	350	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2500	230	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2500	540	ug/l	
108-05-4	Vinyl Acetate	ND	2500	660	ug/l	
75-01-4	Vinyl chloride	ND	500	300	ug/l	
	m,p-Xylene	ND	500	350	ug/l	
95-47-6	o-Xylene	ND	500	200	ug/l	
1330-20-7	Xylene (total)	ND	500	200	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93A-ROX-012914		
Lab Sample ID:	MC27977-4	**Date Sampled:**	01/29/14
Matrix:	AQ - Ground Water	**Date Received:**	01/30/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		70-130%
2037-26-5	Toluene-D8	97%		70-130%
460-00-4	4-Bromofluorobenzene	103%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93A-ROX-012914		
Lab Sample ID:	MC27977-4	**Date Sampled:**	01/29/14
Matrix:	AQ - Ground Water	**Date Received:**	01/30/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W17513.D	1	01/31/14	KR	01/30/14	OP36696	MSW769
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	1.4	ug/l	
95-57-8	2-Chlorophenol	ND	5.4	0.42	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.53	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.36	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	1.3	ug/l	
95-48-7	2-Methylphenol	ND	11	1.4	ug/l	
	3&4-Methylphenol	ND	11	2.2	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.54	ug/l	
100-02-7	4-Nitrophenol	ND	22	0.63	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.4	ug/l	
108-95-2	Phenol	105	5.4	0.56	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.62	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.34	ug/l	
62-53-3	Aniline	ND	11	0.69	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.4	0.22	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.4	0.93	ug/l	
100-51-6	Benzyl Alcohol	ND	11	0.62	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.4	1.0	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.27	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.4	0.23	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.4	0.25	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.4	0.15	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.4	0.22	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.4	0.71	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.73	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.70	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.4	0.54	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.17	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.4	0.42	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.4	0.47	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93A-ROX-012914		
Lab Sample ID:	MC27977-4	**Date Sampled:**	01/29/14
Matrix:	AQ - Ground Water	**Date Received:**	01/30/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.4	0.54	ug/l	
131-11-3	Dimethyl phthalate	ND	5.4	0.54	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.53	ug/l	
118-74-1	Hexachlorobenzene	ND	5.4	0.32	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.7	ug/l	
67-72-1	Hexachloroethane	ND	5.4	0.48	ug/l	
78-59-1	Isophorone	ND	5.4	0.22	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.30	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.54	ug/l	
100-01-6	4-Nitroaniline	ND	11	4.7	ug/l	
98-95-3	Nitrobenzene	ND	5.4	0.27	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.4	0.54	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.4	0.88	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.4	0.59	ug/l	
110-86-1	Pyridine	ND	11	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%		15-110%
4165-62-2	Phenol-d5	30%		15-110%
118-79-6	2,4,6-Tribromophenol	86%		15-110%
4165-60-0	Nitrobenzene-d5	82%		30-130%
321-60-8	2-Fluorobiphenyl	76%		30-130%
1718-51-0	Terphenyl-d14	95%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93A-ROX-012914		
Lab Sample ID:	MC27977-4	**Date Sampled:**	01/29/14
Matrix:	AQ - Ground Water	**Date Received:**	01/30/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I87177.D	1	01/31/14	KR	01/30/14	OP36697	MSI3241
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.22	0.11	0.075	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.054	ug/l	
120-12-7	Anthracene	ND	0.11	0.10	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.054	0.021	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.031	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.054	0.034	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.029	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.042	ug/l	
218-01-9	Chrysene	ND	0.11	0.026	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.035	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.044	ug/l	
86-73-7	Fluorene	0.32	0.11	0.11	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.033	ug/l	
90-12-0	1-Methylnaphthalene	13.3	0.22	0.054	ug/l	
91-57-6	2-Methylnaphthalene	7.2	0.22	0.081	ug/l	
85-01-8	Phenanthrene	0.22	0.054	0.014	ug/l	B
129-00-0	Pyrene	ND	0.11	0.042	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	83%		30-130%
321-60-8	2-Fluorobiphenyl	69%		30-130%
1718-51-0	Terphenyl-d14	92%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93A-ROX-012914		
Lab Sample ID:	MC27977-4	**Date Sampled:**	01/29/14
Matrix:	AQ - Ground Water	**Date Received:**	01/30/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK34396.D	1	01/31/14	NK	01/30/14	OP36715	GBK1134
Run #2							

	Initial Volume	Final Volume
Run #1	36.5 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.014	0.0052	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	93%		36-173%
460-00-4	Bromofluorobenzene (S)	95%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW13-ROX-012914		
Lab Sample ID:	MC27977-5	**Date Sampled:**	01/29/14
Matrix:	AQ - Ground Water	**Date Received:**	01/30/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V27618.D	1	02/04/14	AMY	n/a	n/a	MSV1041
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW13-ROX-012914		
Lab Sample ID:	MC27977-5	**Date Sampled:**	01/29/14
Matrix:	AQ - Ground Water	**Date Received:**	01/30/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
123-91-1	1,4-Dioxane	ND	25	16	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether [a]	8.0	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.70	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW13-ROX-012914		
Lab Sample ID:	MC27977-5	**Date Sampled:**	01/29/14
Matrix:	AQ - Ground Water	**Date Received:**	01/30/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		70-130%
2037-26-5	Toluene-D8	99%		70-130%
460-00-4	4-Bromofluorobenzene	105%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased high.

ND = Not detected MDL = Method Detection Limit
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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW13-ROX-012914		
Lab Sample ID:	MC27977-5	**Date Sampled:**	01/29/14
Matrix:	AQ - Ground Water	**Date Received:**	01/30/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W17514.D	1	01/31/14	KR	01/30/14	OP36696	MSW769
Run #2							

	Initial Volume	Final Volume
Run #1	910 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	1.4	ug/l	
95-57-8	2-Chlorophenol	ND	5.5	0.42	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.54	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.36	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	1.3	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	1.3	ug/l	
95-48-7	2-Methylphenol	ND	11	1.4	ug/l	
	3&4-Methylphenol	ND	11	2.2	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.55	ug/l	
100-02-7	4-Nitrophenol	ND	22	0.64	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.4	ug/l	
108-95-2	Phenol	ND	5.5	0.56	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.63	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.35	ug/l	
62-53-3	Aniline	ND	11	0.70	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.5	0.22	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.5	0.94	ug/l	
100-51-6	Benzyl Alcohol	ND	11	0.63	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.5	1.0	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.27	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.5	0.23	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.5	0.25	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.5	0.15	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.5	0.22	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.5	0.72	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.74	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.71	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.5	0.55	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.17	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.5	0.43	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.5	0.48	ug/l	

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Report of Analysis

Client Sample ID:	MW13-ROX-012914		
Lab Sample ID:	MC27977-5	**Date Sampled:**	01/29/14
Matrix:	AQ - Ground Water	**Date Received:**	01/30/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.5	0.55	ug/l	
131-11-3	Dimethyl phthalate	ND	5.5	0.55	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.54	ug/l	
118-74-1	Hexachlorobenzene	ND	5.5	0.33	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.7	ug/l	
67-72-1	Hexachloroethane	ND	5.5	0.48	ug/l	
78-59-1	Isophorone	ND	5.5	0.22	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.31	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.55	ug/l	
100-01-6	4-Nitroaniline	ND	11	4.8	ug/l	
98-95-3	Nitrobenzene	ND	5.5	0.27	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.5	0.55	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.5	0.89	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.5	0.59	ug/l	
110-86-1	Pyridine	ND	11	0.57	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	39%		15-110%
4165-62-2	Phenol-d5	34%		15-110%
118-79-6	2,4,6-Tribromophenol	89%		15-110%
4165-60-0	Nitrobenzene-d5	76%		30-130%
321-60-8	2-Fluorobiphenyl	76%		30-130%
1718-51-0	Terphenyl-d14	92%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

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Report of Analysis

Client Sample ID:	MW13-ROX-012914		
Lab Sample ID:	MC27977-5	**Date Sampled:**	01/29/14
Matrix:	AQ - Ground Water	**Date Received:**	01/30/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I87178.D	1	01/31/14	KR	01/30/14	OP36697	MSI3241
Run #2							

	Initial Volume	Final Volume
Run #1	910 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.11	0.076	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.054	ug/l	
120-12-7	Anthracene	ND	0.11	0.10	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.055	0.021	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.032	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.055	0.035	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.030	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.042	ug/l	
218-01-9	Chrysene	ND	0.11	0.026	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.035	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.045	ug/l	
86-73-7	Fluorene	ND	0.11	0.11	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.034	ug/l	
90-12-0	1-Methylnaphthalene	0.096	0.22	0.055	ug/l	J
91-57-6	2-Methylnaphthalene	ND	0.22	0.082	ug/l	
85-01-8	Phenanthrene	ND	0.055	0.014	ug/l	
129-00-0	Pyrene	ND	0.11	0.042	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	80%		30-130%
321-60-8	2-Fluorobiphenyl	69%		30-130%
1718-51-0	Terphenyl-d14	88%		30-130%

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW13-ROX-012914		
Lab Sample ID:	MC27977-5	**Date Sampled:**	01/29/14
Matrix:	AQ - Ground Water	**Date Received:**	01/30/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK34397.D	1	01/31/14	NK	01/30/14	OP36715	GBK1134
Run #2							

	Initial Volume	Final Volume
Run #1	36.4 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.014	0.0052	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	94%		36-173%
460-00-4	Bromofluorobenzene (S)	71%		36-173%

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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-012914-HCL		
Lab Sample ID:	MC27977-6	**Date Sampled:**	01/29/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/30/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V27611.D	1	02/04/14	AMY	n/a	n/a	MSV1041
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	

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RL = Reporting Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-012914-HCL		
Lab Sample ID:	MC27977-6	**Date Sampled:**	01/29/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/30/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
123-91-1	1,4-Dioxane	ND	25	16	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.70	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

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Report of Analysis

Client Sample ID:	TB-ROX-012914-HCL		
Lab Sample ID:	MC27977-6	**Date Sampled:**	01/29/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/30/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		70-130%
2037-26-5	Toluene-D8	98%		70-130%
460-00-4	4-Bromofluorobenzene	104%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-012914-ST		
Lab Sample ID:	MC27977-7	**Date Sampled:**	01/29/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/30/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK34398.D	1	01/31/14	NK	01/30/14	OP36715	GBK1134
Run #2							

	Initial Volume	Final Volume
Run #1	35.0 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0054	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	79%		36-173%
460-00-4	Bromofluorobenzene (S)	67%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

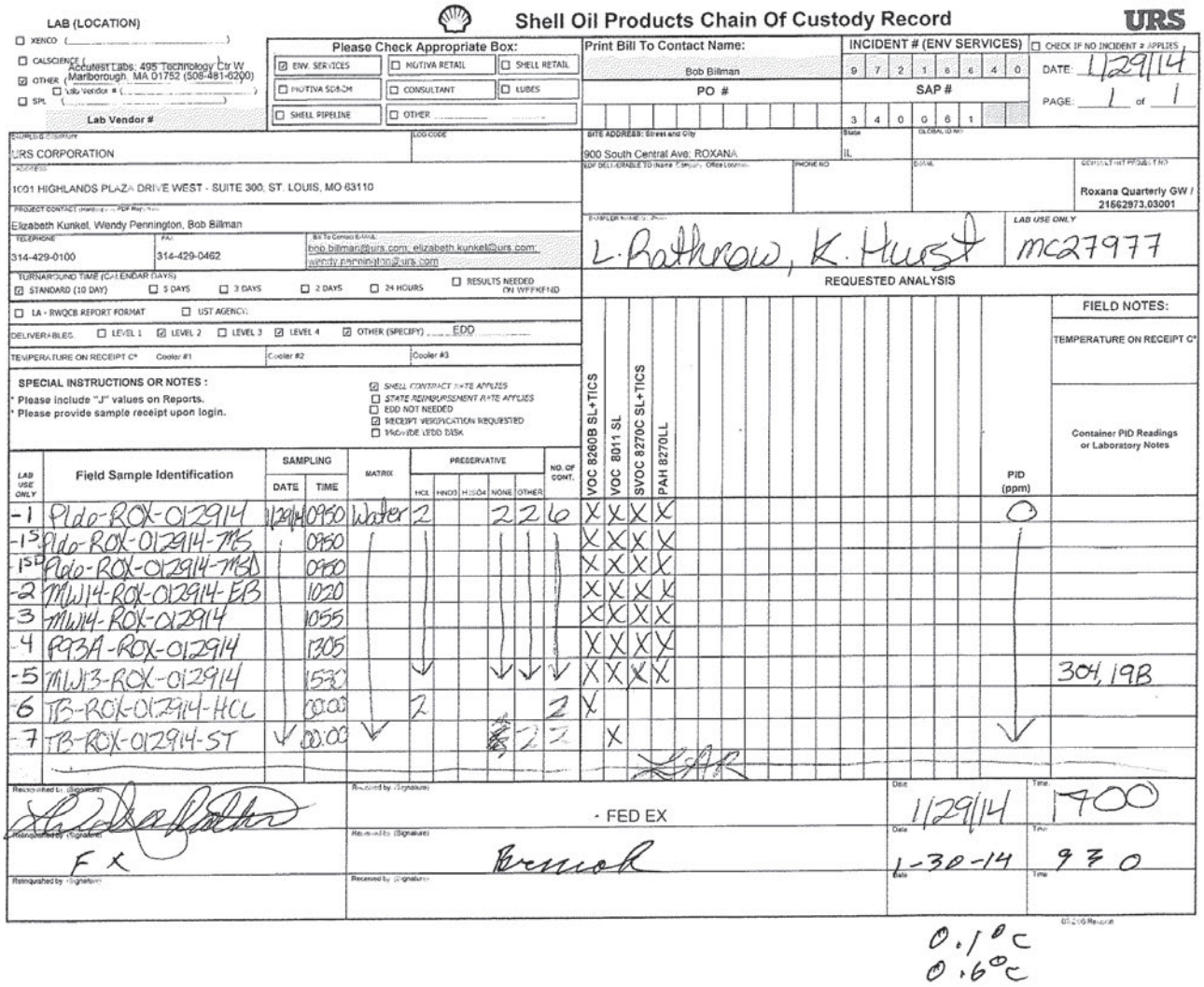
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- REPROC Form: Reprocessed/Corrected Data
- Sample Tracking Chronicle
- Internal Chain of Custody



Shell Oil Products Chain Of Custody Record

URS

LAB (LOCATION)
☐ XENCO (_____)
☐ CALSCIENCE (_____)
☑ OTHER (Accutest Labs, 495 Technology Ctr W Marlborough, MA 01752 (508-481-6200))
☐ SPL (_____)
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&M ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Bob Billman
PO #
INCIDENT # (ENV SERVICES): 9 7 2 1 8 6 4 0
SAP #: 3 4 0 0 6 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 1/29/14
PAGE: 1 of 1

COMPANY NAME: URS CORPORATION
LOG CODE:
SITE ADDRESS: 900 South Central Ave; ROXANA
State: IL
GLOBAL ID NO:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300, ST. LOUIS, MO 63110
SLOP DELIVERABLE TO (Name, Company, Office Location):
PHONE NO:
EMAIL:
CONSULTANT PROJECT NO: Roxana Quarterly GW / 21662973.03001
PROJECT CONTACT (Hardcopy or PDF Report to): Elizabeth Kunkel, Wendy Pennington, Bob Billman
SAMPLER NAME(S): L. Rathrow, K. Hurst
LAB USE ONLY: MC27977
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: bob.billman@urs.com; elizabeth.kunkel@urs.com; wendy.pennington@urs.com
TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (10 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND
REQUESTED ANALYSIS
☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:
DELIVERABLES: ☐ LEVEL 1 ☑ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☑ OTHER (SPECIFY) EDD
TEMPERATURE ON RECEIPT C°: Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :
* Please include "J" values on Reports.
* Please provide sample receipt upon login.

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE EDD DISK

FIELD NOTES:
TEMPERATURE ON RECEIPT C°:
Container PID Readings or Laboratory Notes

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8260B SL+TICS	VOC 8011 SL	SVOC 8270C SL+TICS	PAH 8270LL	PID (ppm)	Container PID Readings or Laboratory Notes
-1	Pldo-ROX-012914	1/29/14	0950	Water	2			2	2	6	X	X	X	X	0	
-1S	Pldo-ROX-012914-MS		0950								X	X	X	X		
-1SD	Pldo-ROX-012914-MSD		0950								X	X	X	X		
-2	MW14-ROX-012914-EB		1020								X	X	X	X		
-3	MW14-ROX-012914		1055								X	X	X	X		
-4	P93A-ROX-012914		1305								X	X	X	X		
-5	MW13-ROX-012914		1532								X	X	X	X		304, 19B
-6	TB-ROX-012914-HCL		00:00		2					2	X					
-7	TB-ROX-012914-ST		00:00						2	2		X				
													SAR			

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
	- FED EX	1/29/14	1700
FX			
	Bennett	1-30-14	930
Relinquished by: (Signature)	Received by: (Signature)	Date	Time

0.1°C
0.6°C

MC27977: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC27977 **Client:** URS **Immediate Client Services Action Required:** No

Date / Time Received: 1/30/2014 **Delivery Method:** **Client Service Action Required at Login:** No

Project: 900 SOUTH CENTRAL **No. Coolers:** 2 **Airbill #'s:**

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Infared gun		
3. Cooler media:	Ice (bag)		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

Marlborough, MA
www/accutest.com

5.1

5

MC27977: Chain of Custody
Page 2 of 2

Job Number: MC27977 **Sample:** MSV1019-ICC1019
Account: SHELLWIC Shell Oil **Lab FileID:** V26938.D
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Response Factor Report MSV

Method : O:\msv\1\methods\v140107wx.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Calibration Files
0.25=v26932.d 0.5 =v26933.d 1 =v26934.d 2 =v26935.d
5 =v26936.d 10 =v26937.d 50 =v26938.d 100 =v26939.d
200 =v26940.d 400 =v26942.d = =

Compound

	0.25	0.5	1	2	5	10	50	100	200	400	Avg	%RSD
1) I tert butyl alcohol-d9 ----------ISTD----------												
2) Ethanol				0.166	0.141	0.140	0.070	0.095	0.070	0.077	0.108	36.81
---- Linear regression ---- Coefficient = 0.9924												
Response Ratio = 0.07206 + 0.07518 *A												
3) I pentafluorobenzene ----------ISTD----------												
4) chloroethane				0.708	0.546	0.470	0.438	0.407	0.399	0.368	0.311	0.456	27.04
---- Linear regression ---- Coefficient = 0.9911												
Response Ratio = 0.00673 + 0.37855 *A												

(#) = Out of Range ### Number of calibration levels exceeded format ###

v140107wx.m Mon Oct 12 12:04:54 2015

Initial Calibration Verification

Job Number: MC27977 **Sample:** MSV1019-ICV1019
Account: SHELLWIC Shell Oil **Lab FileID:** V26944.D
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Evaluate Continuing Calibration Report

Data File : O:\msv\1\databackup\v140107\v26944.d Vial: 22
Acq On : 7 Jan 2014 7:05 pm Operator: amym
Sample : icv1019-50 Inst : MSV
Misc : MS30921,MSV1019,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : O:\msv\1\methods\v140107wx.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Oct 12 12:03:49 2015
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	tert butyl alcohol-d9	1.000	1.000	0.0	110	-0.01	3.51
		Amount	Calc.	%Drift			
2 p	Ethanol	5000.000	6281.655	-25.6#	160	0.01	2.50
		AvgRF	CCRF	%Dev			
3 I	pentafluorobenzene	1.000	1.000	0.0	113	0.00	6.55
		Amount	Calc.	%Drift			
4 p	chloroethane	50.000	55.636	-11.3	119	0.00	2.15

(#) = Out of Range SPCC's out = 0 CCC's out = 0
v26938.d v140107wx.m Mon Oct 12 12:05:26 2015

Continuing Calibration Summary

Job Number: MC27977 **Sample:** MSV1041-CC1019
Account: SHELLWIC Shell Oil **Lab FileID:** V27607.D
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Evaluate Continuing Calibration Report

Data File : O:\msv\1\databackup\v140204\v27607.d Vial: 2
Acq On : 4 Feb 2014 10:10 am Operator: amym
Sample : cc1019-50 Inst : MSV
Misc : MS31072,MSV1041,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : O:\msv\1\methods\v140107wx.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Oct 12 12:03:49 2015
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	tert butyl alcohol-d9	1.000	1.000	0.0	109	-0.02	3.50
		Amount	Calc.	%Drift			
2 p	Ethanol	5000.000	5924.429	-18.5	150	0.00	2.49
		AvgRF	CCRF	%Dev			
3 I	pentafluorobenzene	1.000	1.000	0.0	88	-0.02	6.53
		Amount	Calc.	%Drift			
4 p	chloroethane	50.000	64.550	-29.1#	107	0.00	2.15

(#) = Out of Range SPCC's out = 0 CCC's out = 0
v26938.d v140107wx.m Thu Nov 19 20:55:44 2015

Continuing Calibration Summary

Job Number: MC27977 **Sample:** MSV1042-CC1019
Account: SHELLWIC Shell Oil **Lab FileID:** V27637.D
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Evaluate Continuing Calibration Report

Data File : O:\msv\1\databackup\v140205\v27637.d Vial: 2
Acq On : 5 Feb 2014 9:23 am Operator: amym
Sample : cc1019-50 Inst : MSV
Misc : MS31082,MSV1042,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : O:\msv\1\methods\v140107wx.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Oct 12 12:03:49 2015
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	tert butyl alcohol-d9	1.000	1.000	0.0	111	0.00	3.53
		Amount	Calc.	%Drift			
2 p	Ethanol	5000.000	6094.211	-21.9#	157	0.03	2.52
		AvgRF	CCRF	%Dev			
3 I	pentafluorobenzene	1.000	1.000	0.0	88	0.00	6.57
		Amount	Calc.	%Drift			
4 p	chloroethane	50.000	52.614	-5.2	88	0.01	2.17

(#) = Out of Range SPCC's out = 0 CCC's out = 0
v26938.d v140107wx.m Thu Nov 19 21:15:09 2015

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26932.d
Acq On : 7 Jan 2014 12:30 pm
Operator : amym
Sample : ic1019-0.25
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

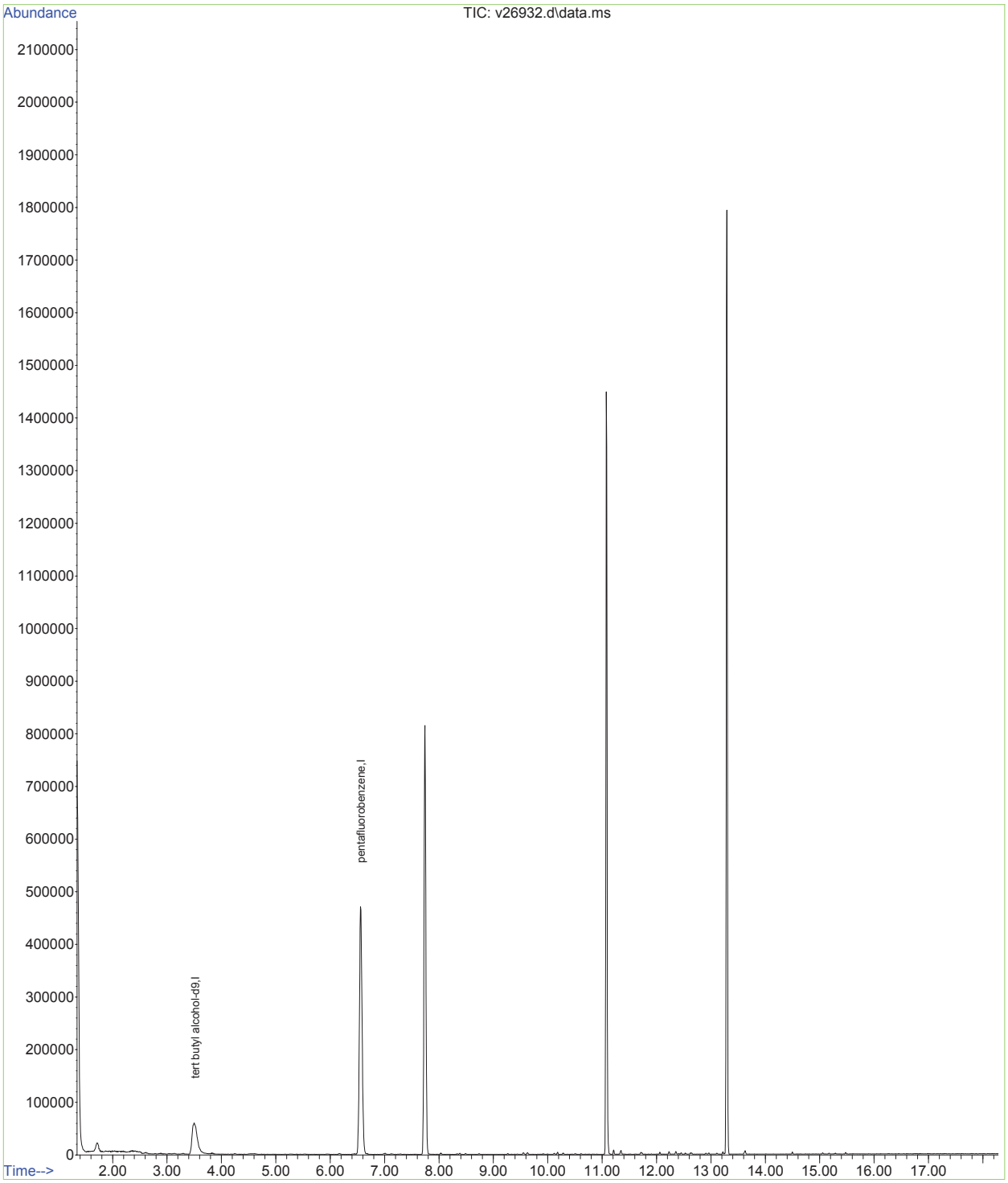
Quant Time: Oct 12 11:50:29 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.522	65	168440	500.00	ug/L	0.00
3) pentafluorobenzene	6.564	168	534929	50.00	ug/L	0.00
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msv\1\databackup\v140107\
Data File : v26932.d
Acq On : 7 Jan 2014 12:30 pm
Operator : amym
Sample : ic1019-0.25
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 12 11:50:29 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26933.d
Acq On : 7 Jan 2014 12:56 pm
Operator : amym
Sample : ic1019-0.5
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

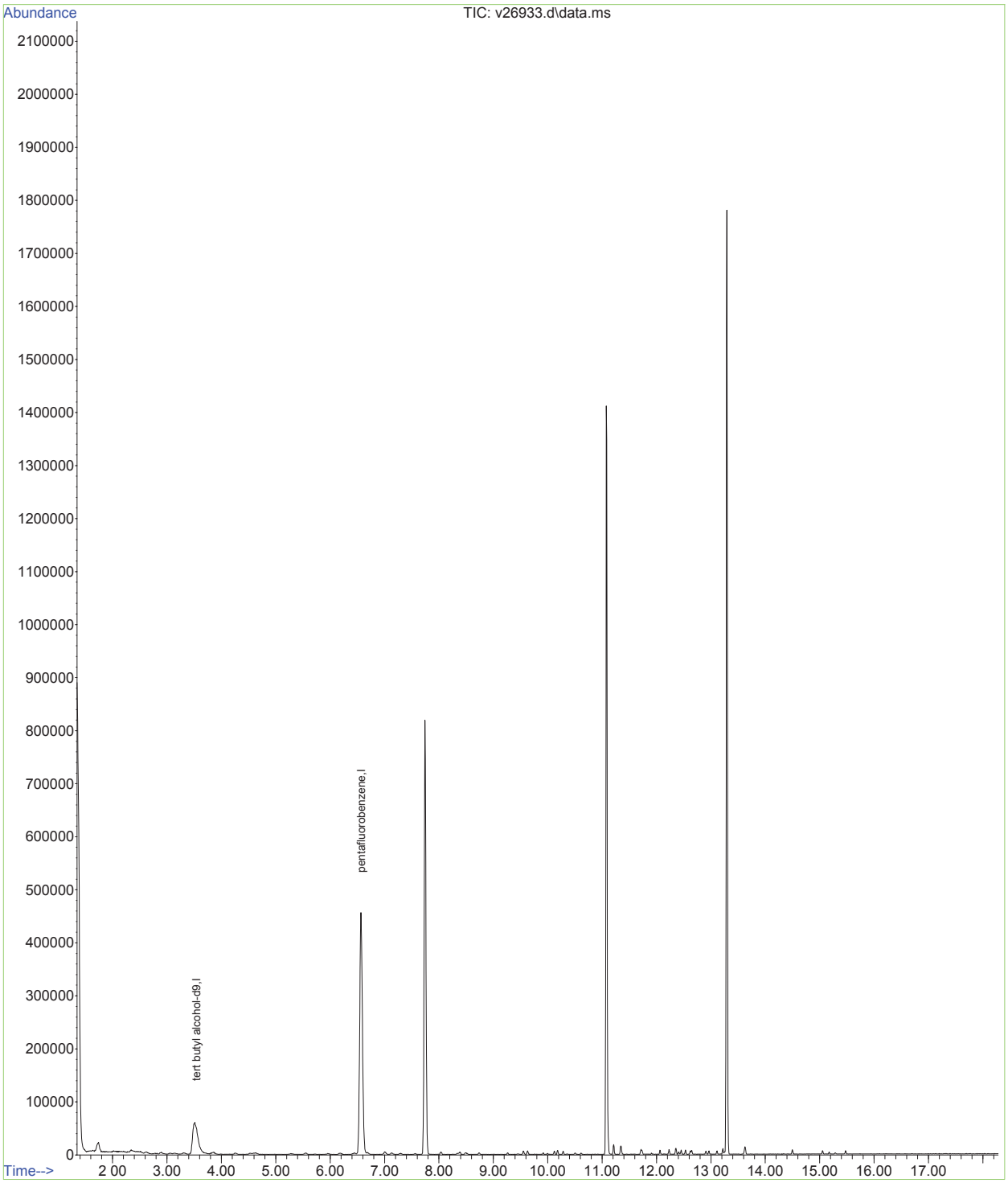
Quant Time: Oct 12 11:50:59 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.537	65	168993	500.00	ug/L	0.01
3) pentafluorobenzene	6.570	168	523768	50.00	ug/L	0.01
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msv\1\databackup\v140107\
Data File : v26933.d
Acq On : 7 Jan 2014 12:56 pm
Operator : amym
Sample : ic1019-0.5
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 12 11:50:59 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26934.d
Acq On : 7 Jan 2014 1:22 pm
Operator : amym
Sample : ic1019-1
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

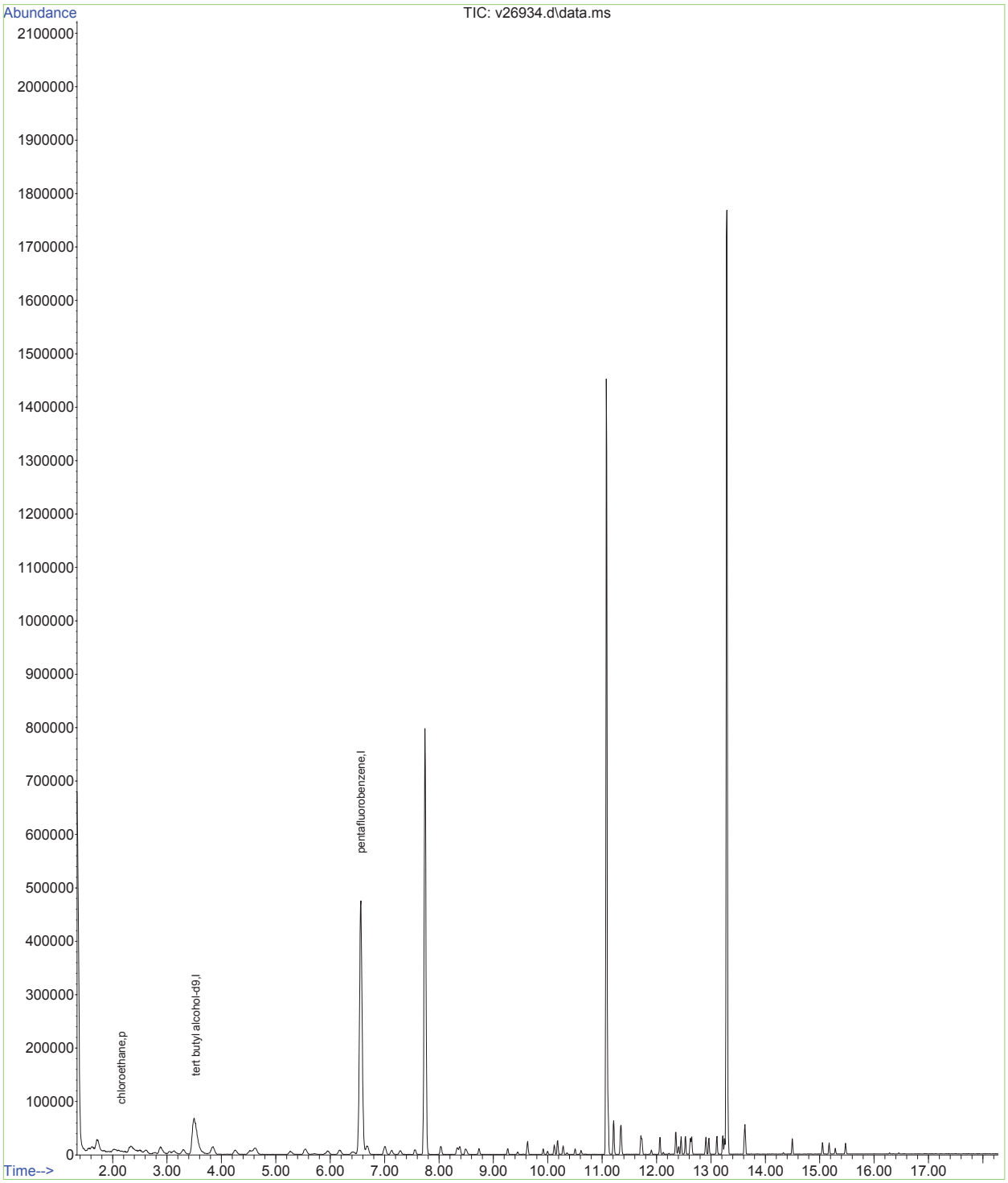
Quant Time: Oct 12 11:52:02 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.527	65	169438	500.00	ug/L	0.00
3) pentafluorobenzene	6.565	168	527887	50.00	ug/L	0.00
Target Compounds						Qvalue
4) chloroethane	2.159	64	7471m	1.74	ug/L	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

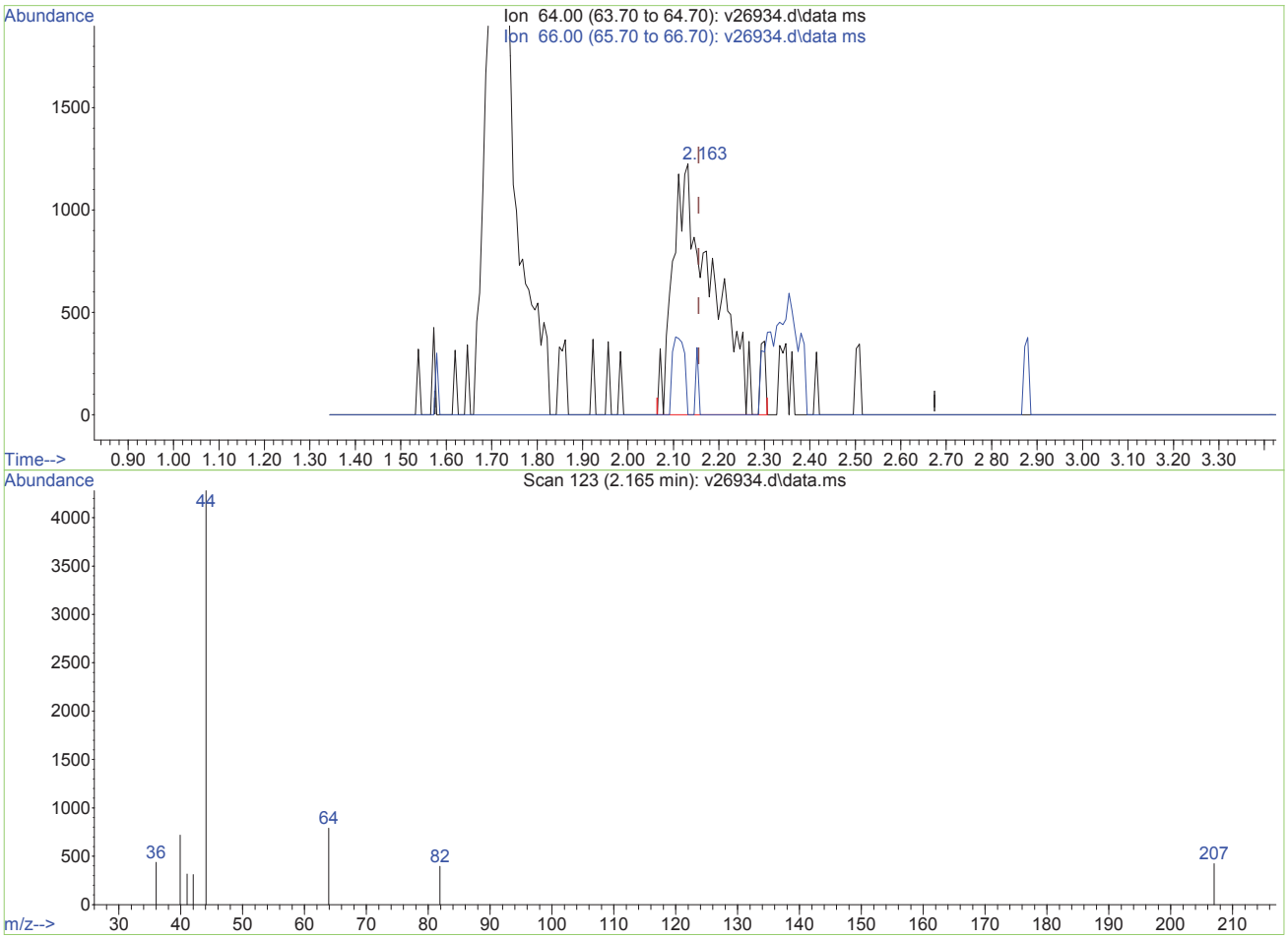
Data Path : O:\msv\1\databackup\v140107\
Data File : v26934.d
Acq On : 7 Jan 2014 1:22 pm
Operator : amym
Sample : ic1019-1
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 12 11:52:02 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Data Path : O:\msv\1\databackup\v140107\
Data File : v26934.d
Acq On : 7 Jan 2014 1:22 pm
Operator : amym
Sample : ic1019-1
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 12 11:49:53 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26934.d\data.ms

(4) chloroethane (p)

2.163min (+0.008) 1.81ug/L

response 7756

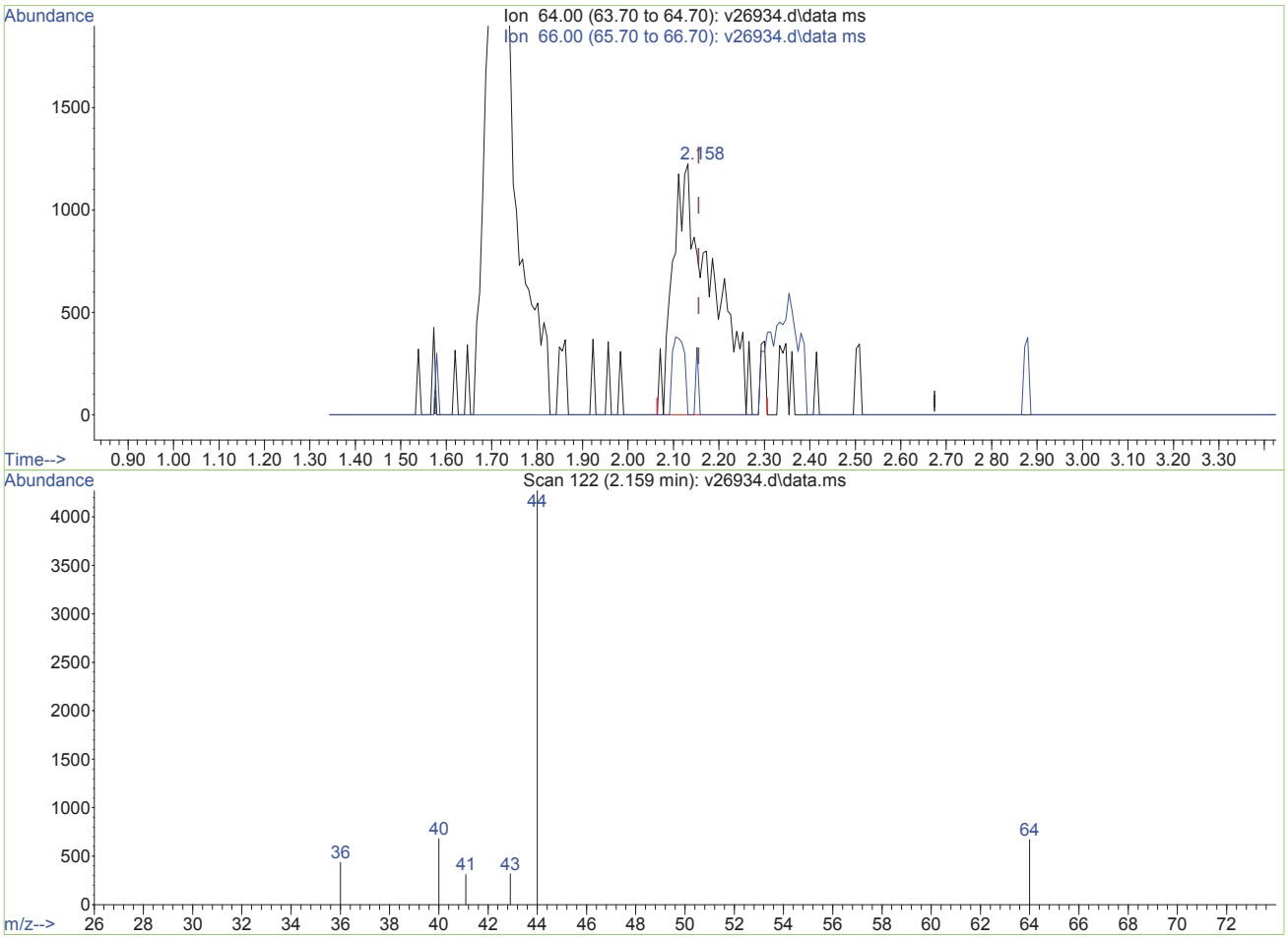
Ion	Exp%	Act%
64.00	100	100
66.00	34.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26934.D edits: chloroethane

SGS ACCUTEST MC27977

Data Path : O:\msv\1\databackup\v140107\
Data File : v26934.d
Acq On : 7 Jan 2014 1:22 pm
Operator : amym
Sample : ic1019-1
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 12 11:49:53 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26934.d\data.ms

(4) chloroethane (p)

2.159min (+0.003) 1.74ug/L m

response 7471

Ion	Exp%	Act%
64.00	100	100
66.00	34.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26934.D edits: chloroethane

Data Path : O:\msv\1\databackup\v140107\
Data File : v26935.d
Acq On : 7 Jan 2014 1:49 pm
Operator : amym
Sample : ic1019-2
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

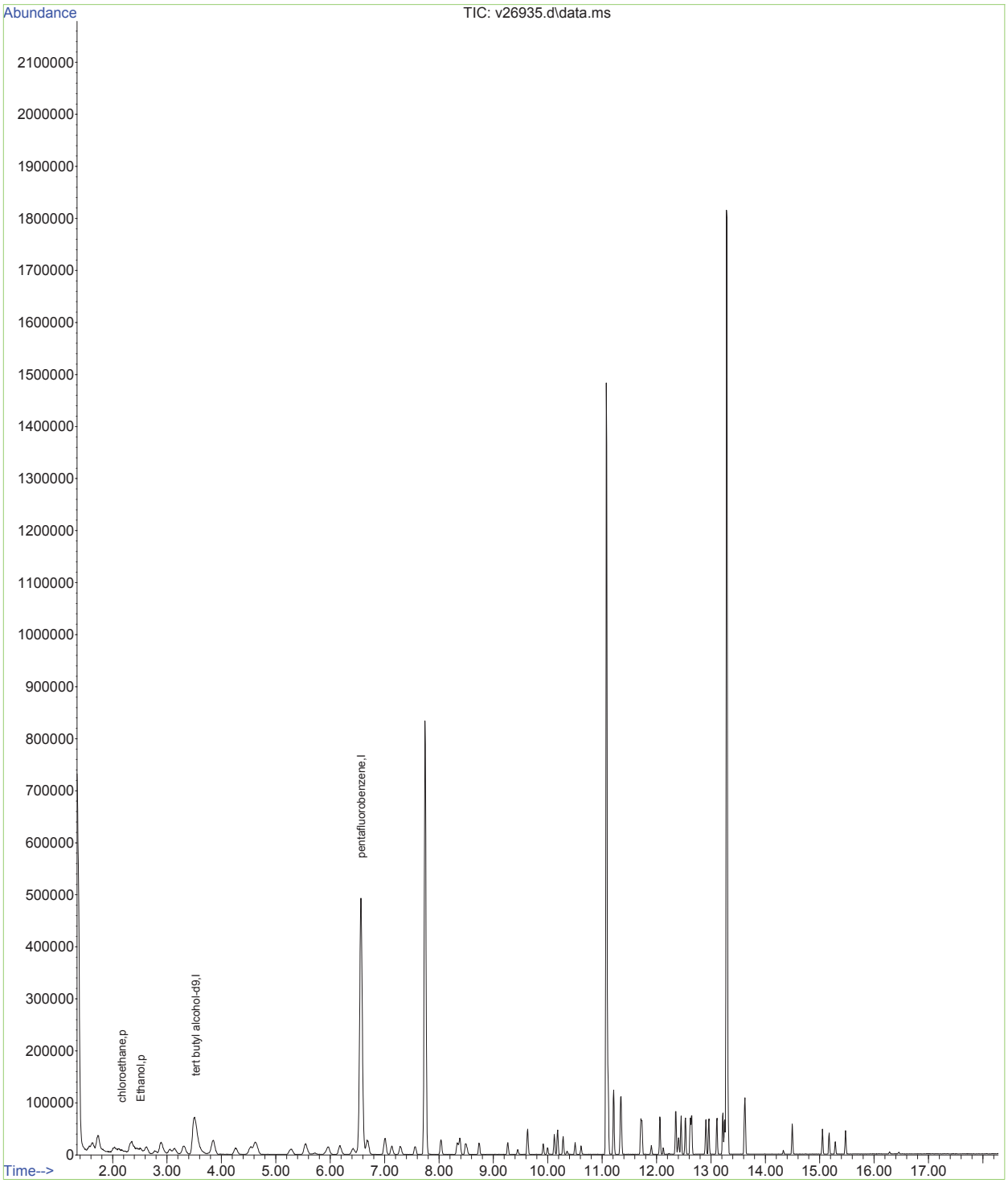
Quant Time: Oct 12 11:52:51 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.533	65	165100	500.00	ug/L	0.01
3) pentafluorobenzene	6.569	168	548060	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.516	45	10989m	474.44	ug/L	
4) chloroethane	2.170	64	11967	2.68	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

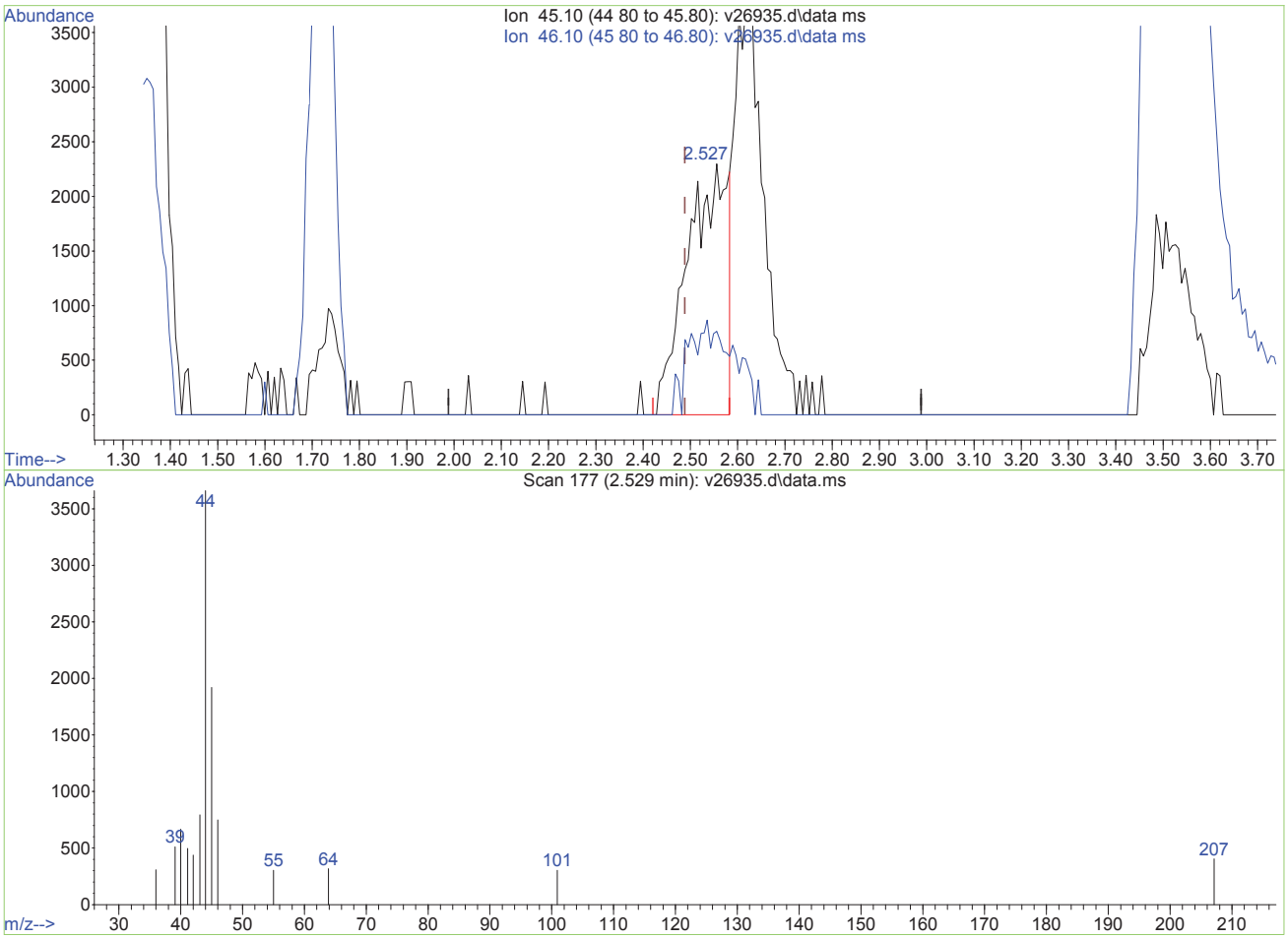
Data Path : O:\msv\1\databackup\v140107\
Data File : v26935.d
Acq On : 7 Jan 2014 1:49 pm
Operator : amym
Sample : ic1019-2
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 12 11:52:51 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Data Path : O:\msv\1\databackup\v140107\
Data File : v26935.d
Acq On : 7 Jan 2014 1:49 pm
Operator : amym
Sample : ic1019-2
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 12 11:49:55 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26935.d\data.ms

(2) Ethanol (p)

2.527min (+0.039) 585.36ug/L

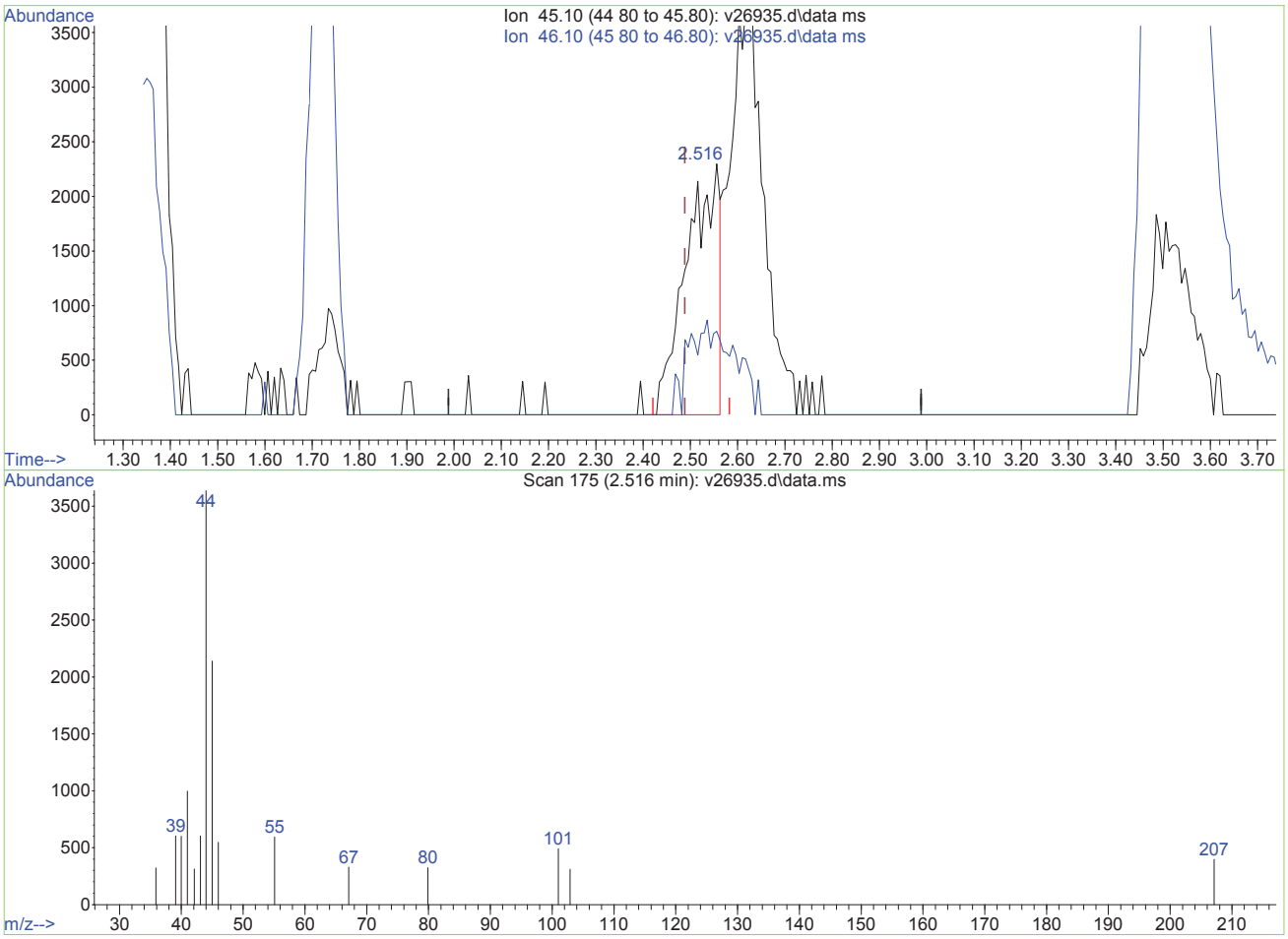
response 13558

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	43.04#
0.00	0.00	0.00
0.00	0.00	0.00

V26935.D edits: Ethanol

Data Path : O:\msv\1\databackup\v140107\
Data File : v26935.d
Acq On : 7 Jan 2014 1:49 pm
Operator : amym
Sample : ic1019-2
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 12 11:49:55 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26935.d\data.ms

(2) Ethanol (p)

2.516min (+0.027) 474.44ug/L m

response 10989

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	53.11#
0.00	0.00	0.00
0.00	0.00	0.00

V26935.D edits: Ethanol

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26936.d
Acq On : 7 Jan 2014 2:16 pm
Operator : amym
Sample : ic1019-5
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 12 11:49:57 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

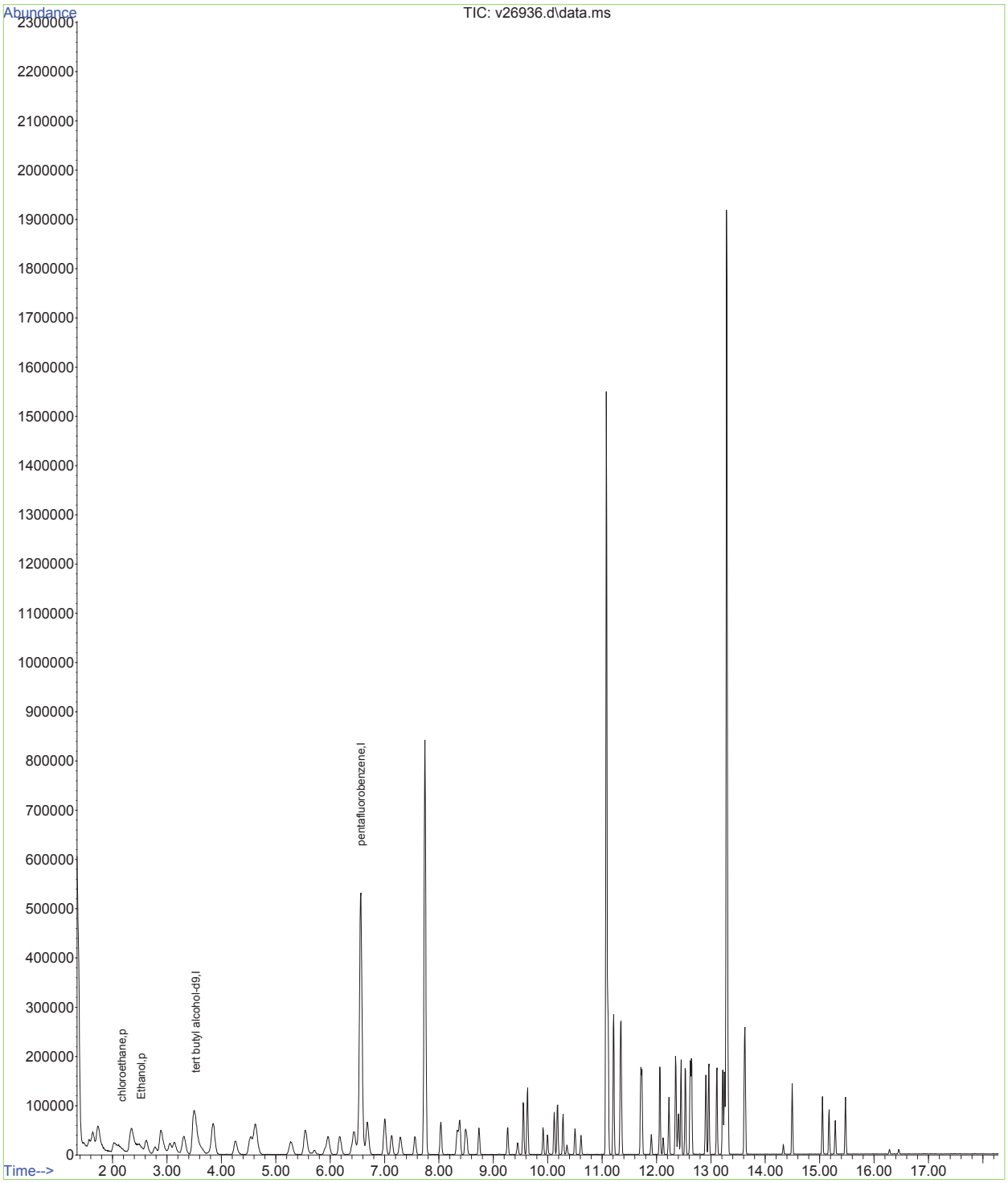
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.532	65	174193	500.00	ug/L	0.00
3) pentafluorobenzene	6.565	168	569450	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.523	45	24520	1003.38	ug/L	# 1
4) chloroethane	2.173	64	26754	5.77	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST MC27977

Data Path : O:\msv\1\databackup\v140107\
Data File : v26936.d
Acq On : 7 Jan 2014 2:16 pm
Operator : amym
Sample : ic1019-5
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 12 11:49:57 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26937.d
Acq On : 7 Jan 2014 2:42 pm
Operator : amym
Sample : ic1019-10
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 12 11:49:59 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

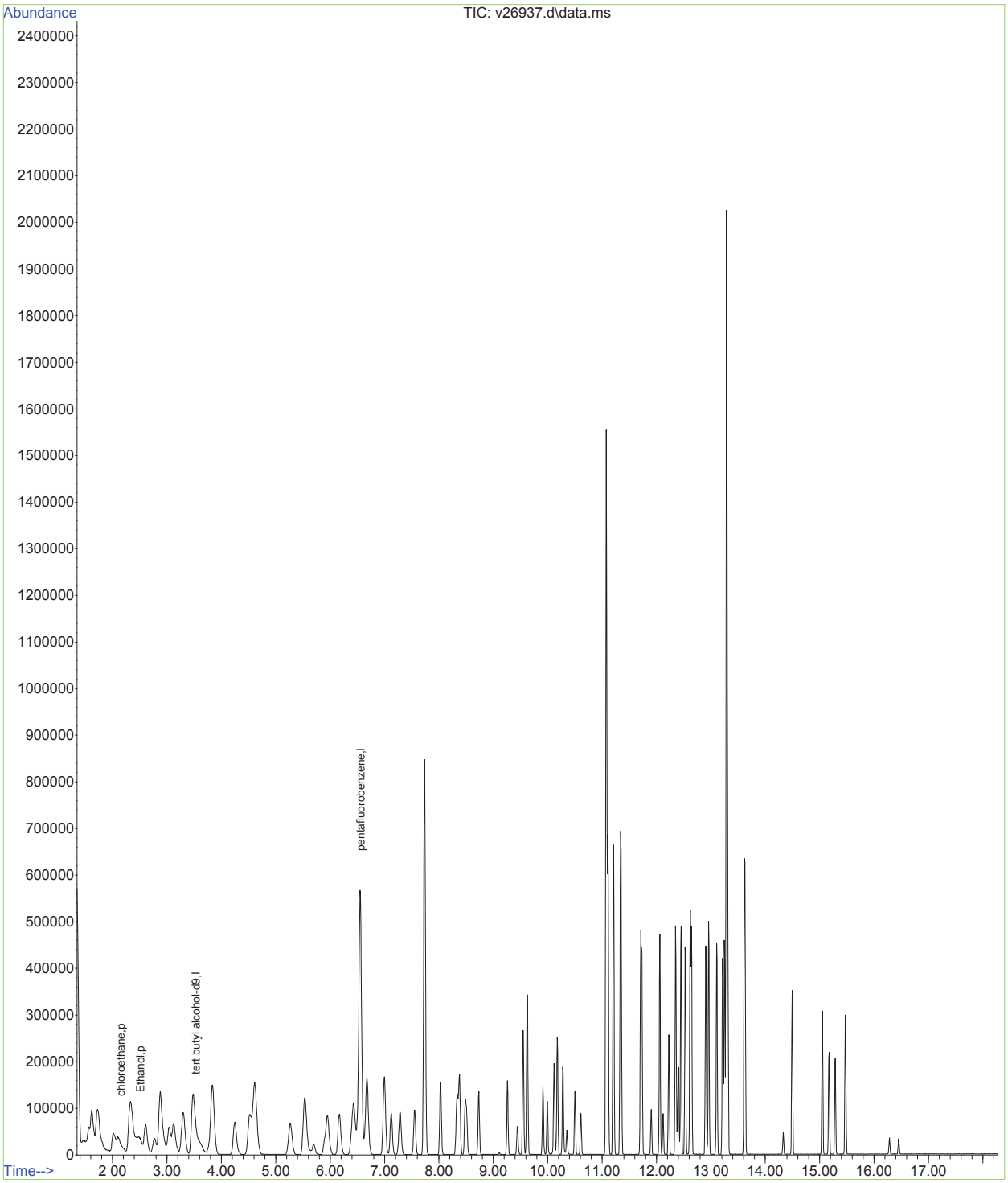
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.523	65	172384	500.00	ug/L	0.00
3) pentafluorobenzene	6.556	168	597997	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.509	45	48113	1989.48	ug/L	# 1
4) chloroethane	2.155	64	52409	10.77	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST MC27977

Data Path : O:\msv\1\databackup\v140107\
Data File : v26937.d
Acq On : 7 Jan 2014 2:42 pm
Operator : amym
Sample : ic1019-10
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 12 11:49:59 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26938.d
Acq On : 7 Jan 2014 3:08 pm
Operator : amym
Sample : icc1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

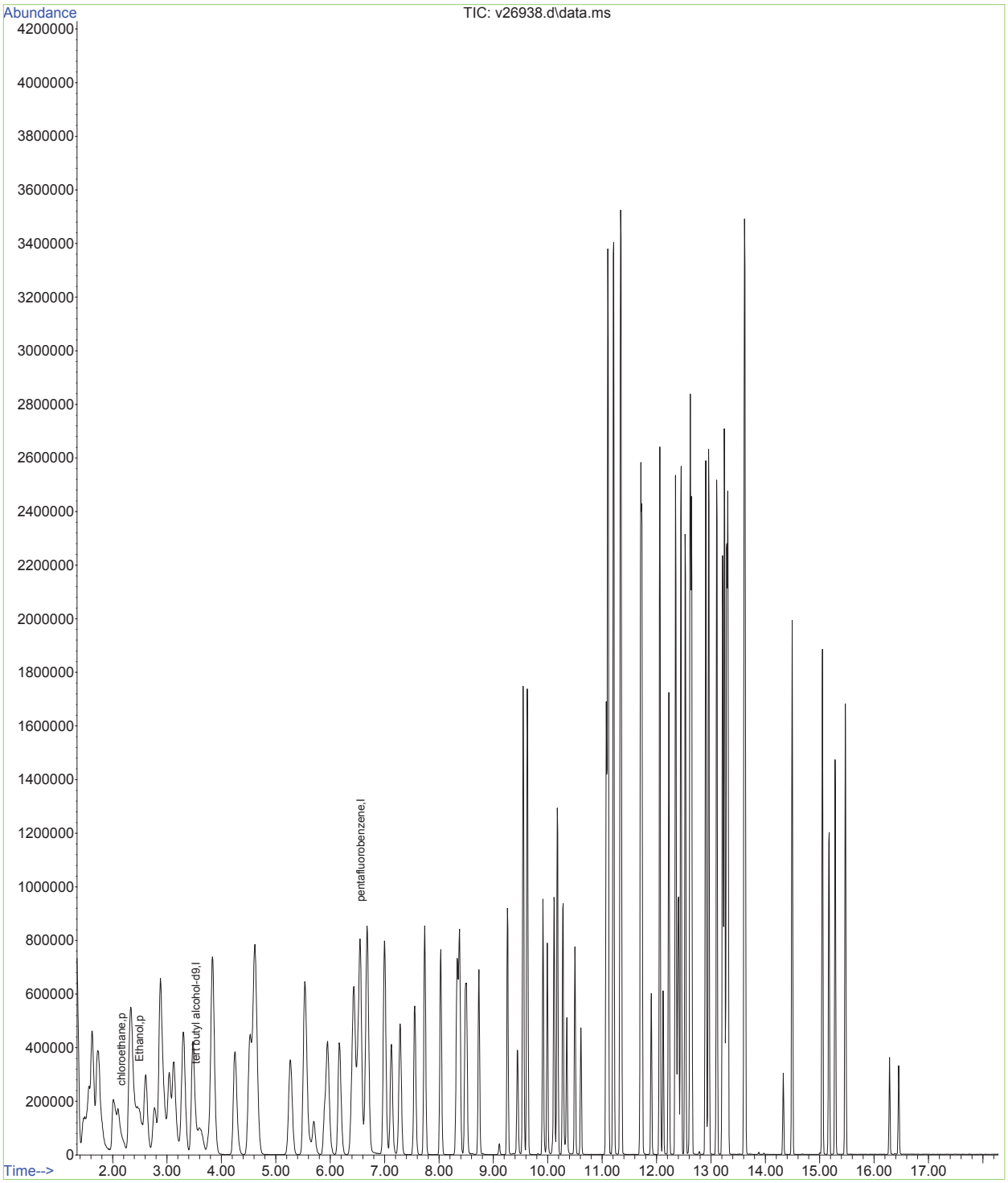
Quant Time: Oct 12 11:54:24 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.524	65	196490	500.00	ug/L	0.00
3) pentafluorobenzene	6.559	168	650576	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.489	45	137020m	4970.70	ug/L	
4) chloroethane	2.155	64	264750	50.00	ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msv\1\databackup\v140107\
Data File : v26938.d
Acq On : 7 Jan 2014 3:08 pm
Operator : amym
Sample : icc1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

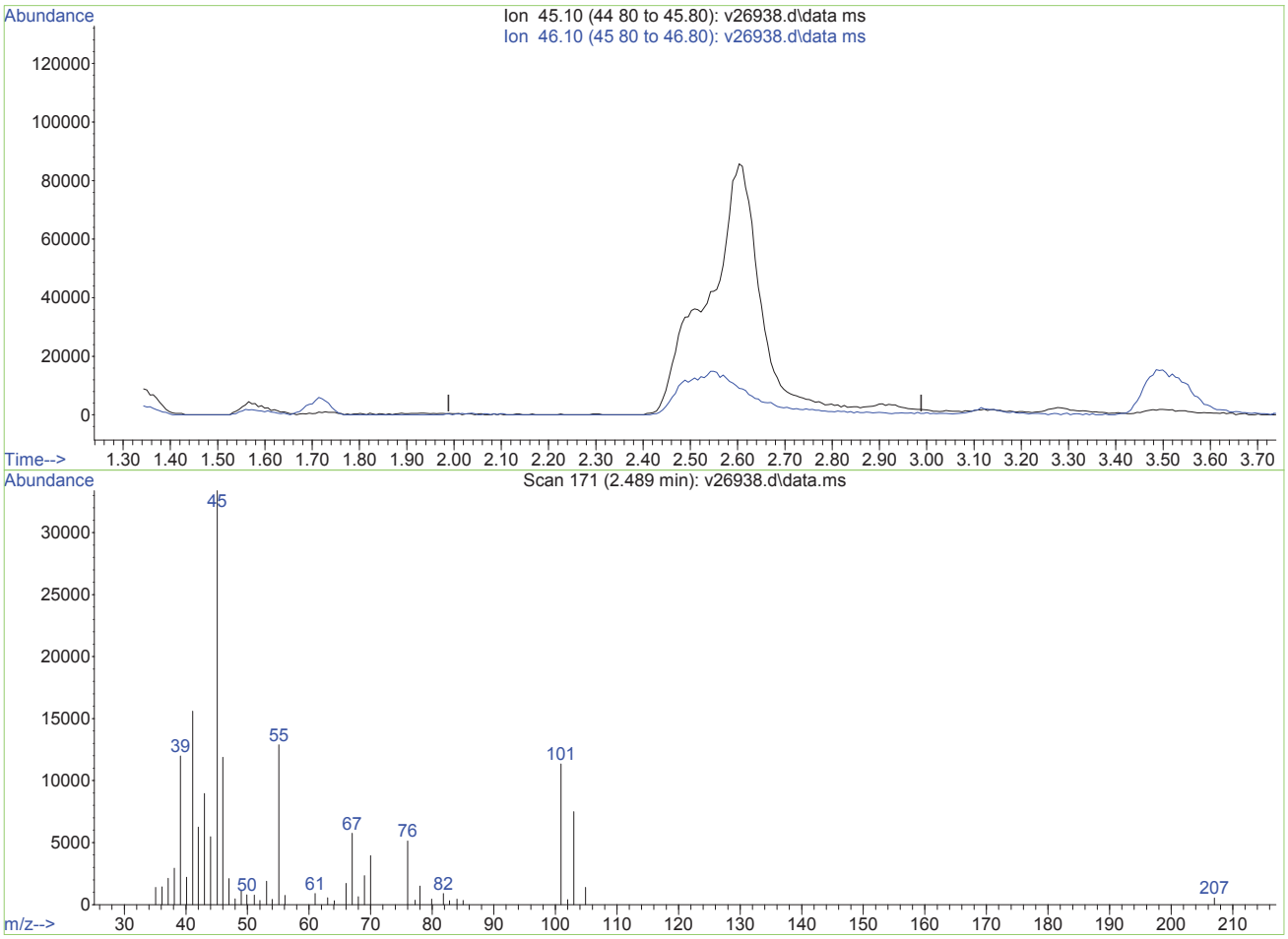
Quant Time: Oct 12 11:54:24 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26938.d
Acq On : 7 Jan 2014 3:08 pm
Operator : amym
Sample : icc1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 12 11:50:01 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26938.d\data.ms

(2) Ethanol (p)

2.489min (-2.489) 0.00ug/L

response 0

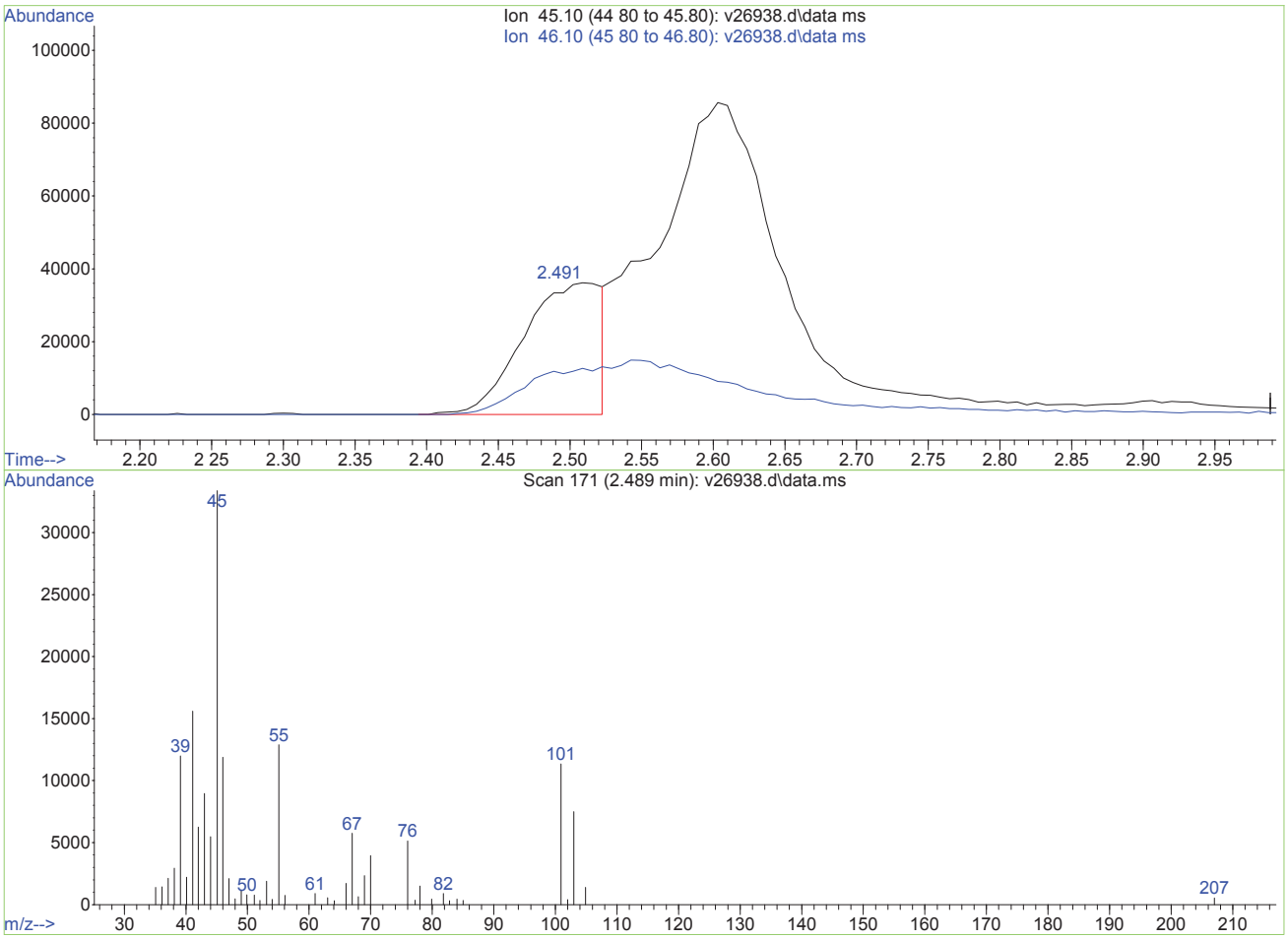
Ion	Exp%	Act%
45.10	100	0.00
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26938.D edits: Ethanol

SGS ACCUTEST MC27977

Data Path : O:\msv\1\databackup\v140107\
Data File : v26938.d
Acq On : 7 Jan 2014 3:08 pm
Operator : amym
Sample : icc1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 12 11:50:01 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26938.d\data.ms

(2) Ethanol (p)

2.489min (0.000) 4970.70ug/L m

response 137020

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26938.D edits: Ethanol

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26939.d
Acq On : 7 Jan 2014 3:35 pm
Operator : amym
Sample : ic1019-100
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 12 11:55:09 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

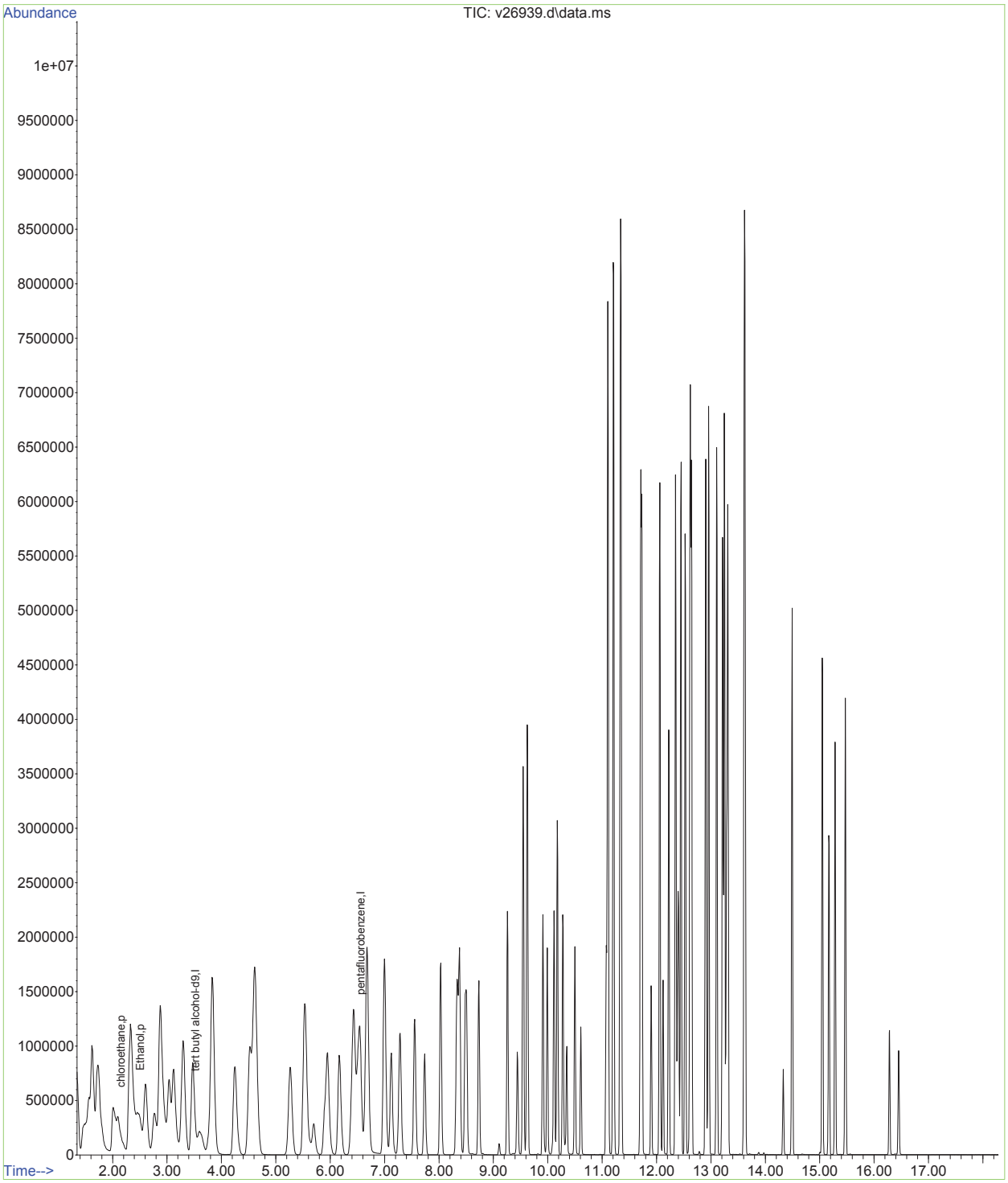
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.521	65	218199	500.00	ug/L	0.00
3) pentafluorobenzene	6.558	168	709327	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.502	45	415447m	13571.79	ug/L	
4) chloroethane	2.151	64	566729	98.17	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST MC27977

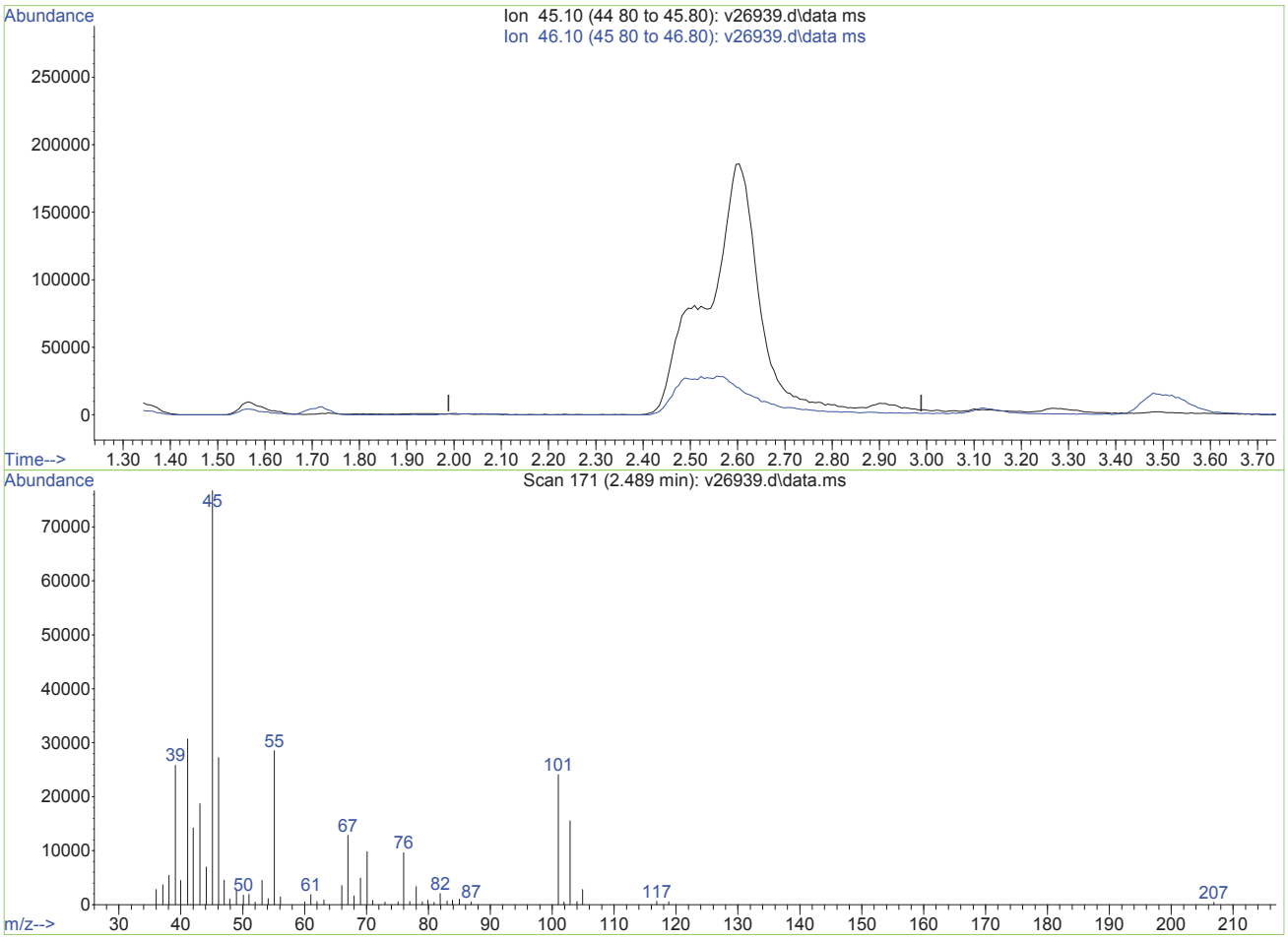
Data Path : O:\msv\1\databackup\v140107\
Data File : v26939.d
Acq On : 7 Jan 2014 3:35 pm
Operator : amym
Sample : ic1019-100
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 12 11:55:09 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Data Path : O:\msv\1\databackup\v140107\
Data File : v26939.d
Acq On : 7 Jan 2014 3:35 pm
Operator : amym
Sample : ic1019-100
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 12 11:50:03 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26939.d\data.ms

(2) Ethanol (p)

2.489min (-2.489) 0.00ug/L

response 0

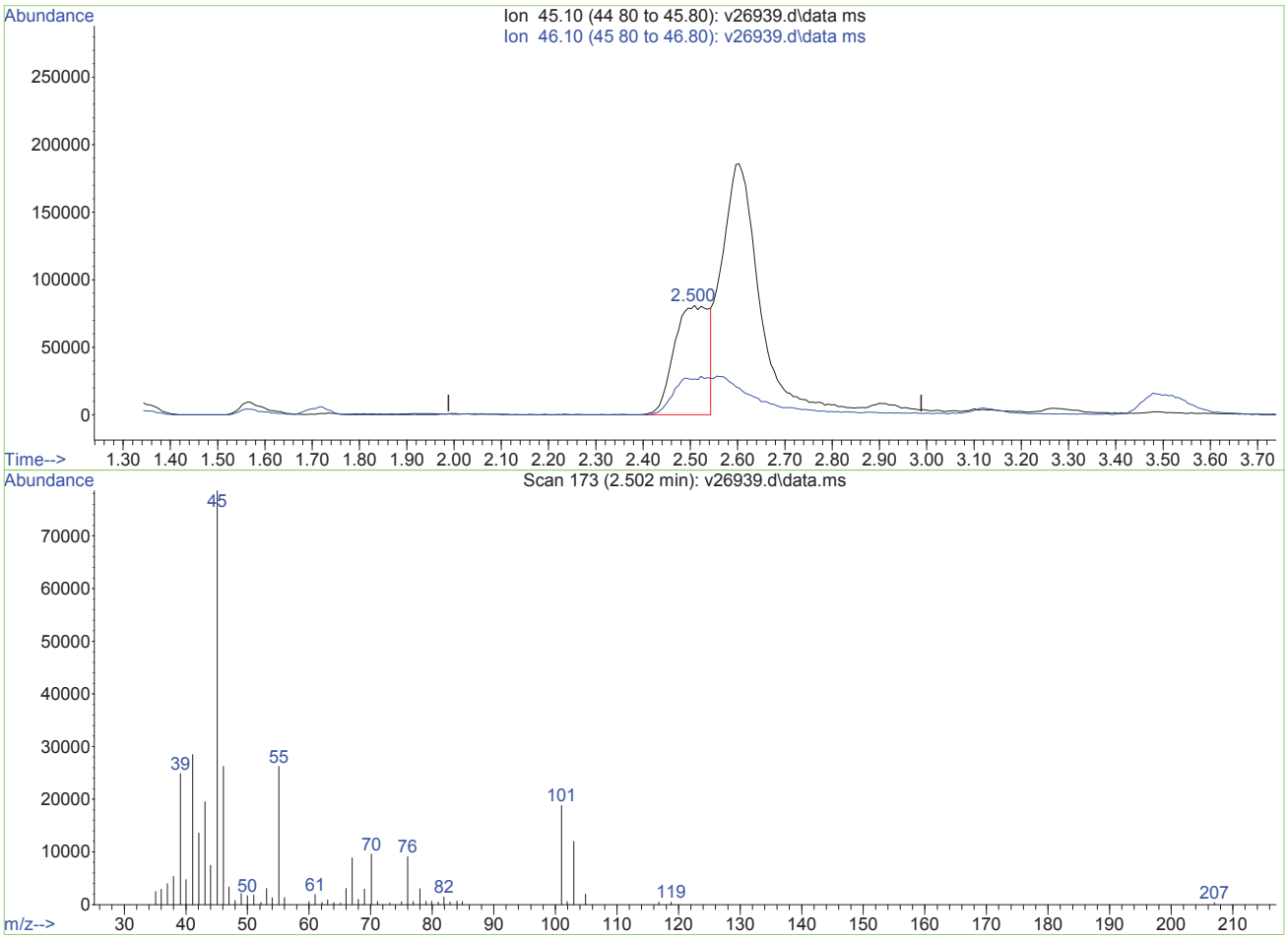
Ion	Exp%	Act%
45.10	100	0.00
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26939.D edits: Ethanol

Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26939.d
Acq On : 7 Jan 2014 3:35 pm
Operator : amym
Sample : ic1019-100
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 12 11:50:03 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26939.d\data.ms

(2) Ethanol (p)

2.502min (+0.013) 13571.79ug/L m

response 415447

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26939.D edits: Ethanol

SGS ACCUTEST MC27977

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:56:38 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

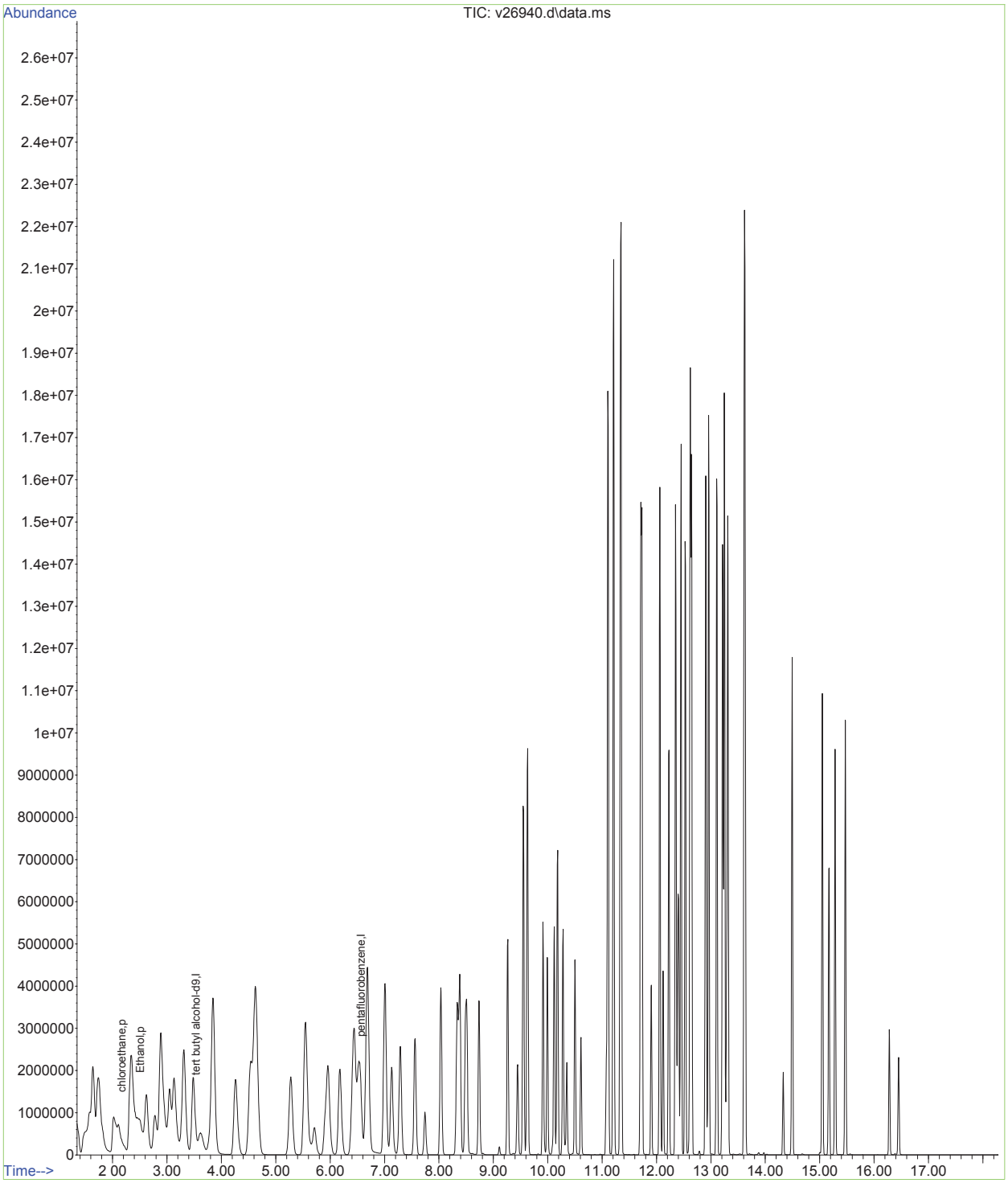
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) tert butyl alcohol-d9	3.526	65	248311m	500.00 ug/L	0.00
3) pentafluorobenzene	6.565	168	827373	50.00 ug/L	0.00
Target Compounds					Qvalue
2) Ethanol	2.502	45	690608m	19824.86 ug/L	
4) chloroethane	2.165	64	1217177m	180.75 ug/L	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST MC27977

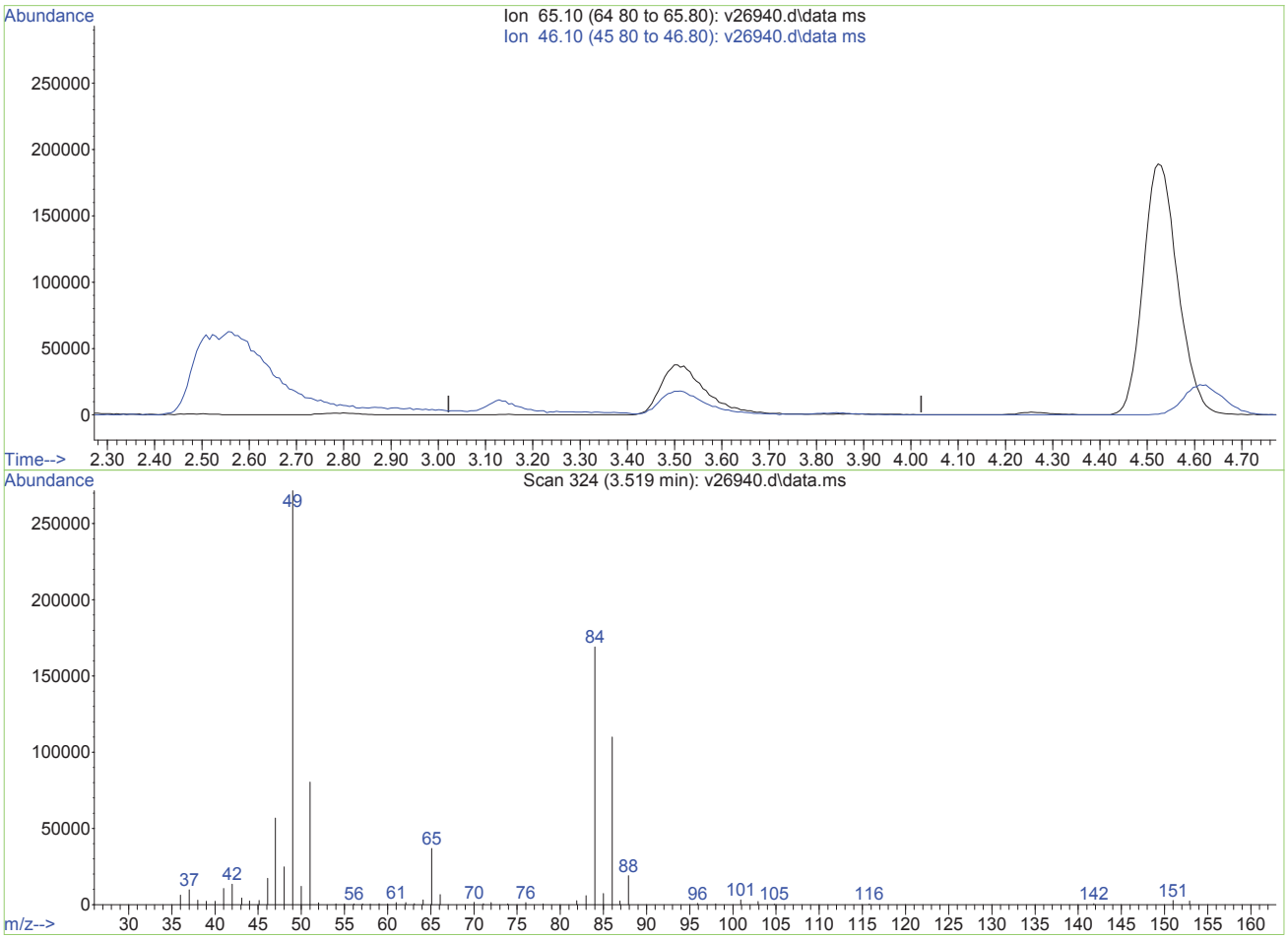
Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:56:38 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:50:05 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26940.d\data.ms

(1) tert butyl alcohol-d9 (I)

3.522min (-3.522) 0.00ug/L

response 0

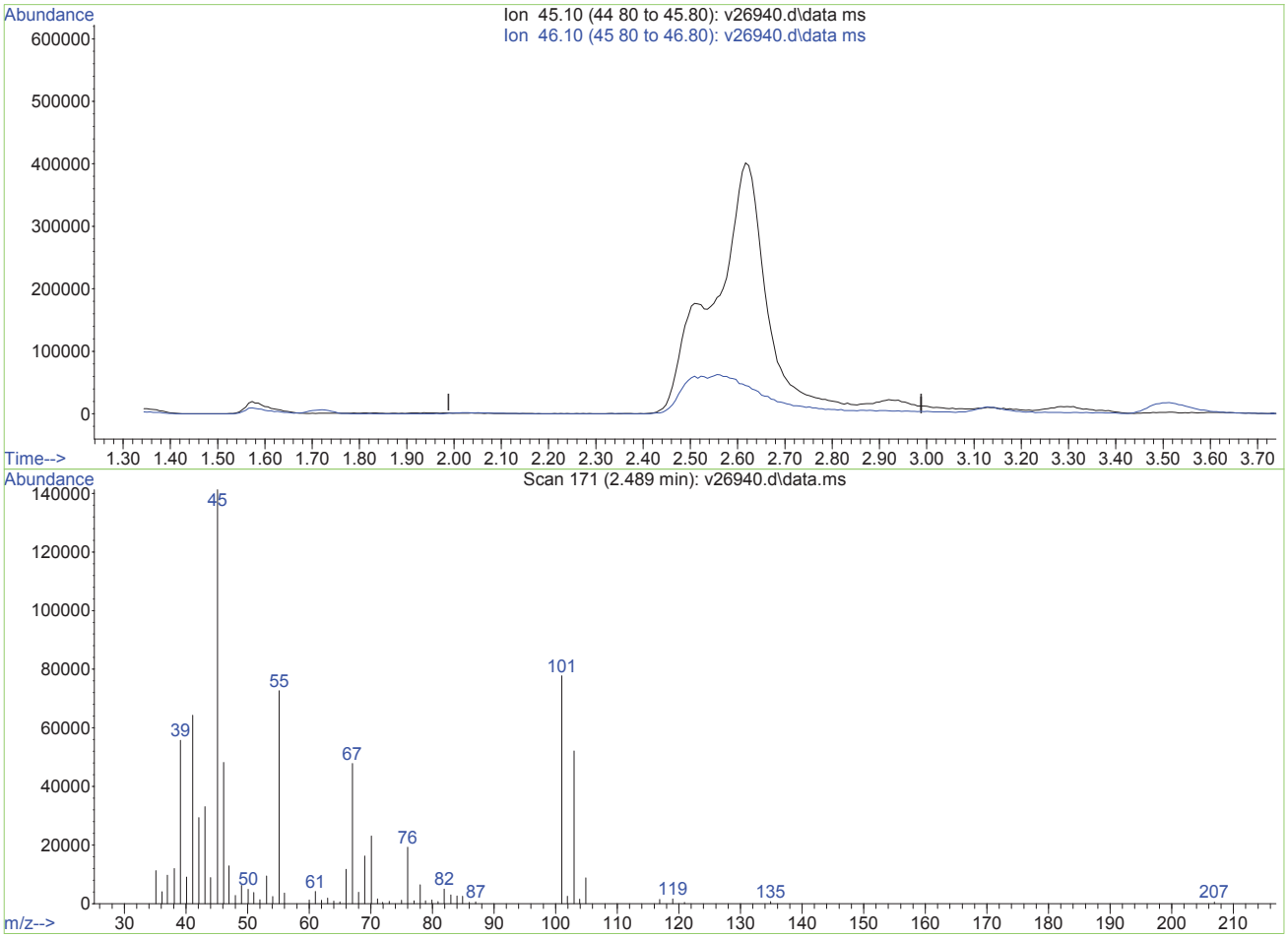
Ion	Exp%	Act%
65.10	100	0.00
46.10	54.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26940.D edits: tert butyl alcohol-d9

Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:50:05 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26940.d\data.ms

(2) Ethanol (p)

2.489min (-2.489) 0.00ug/L

response 0

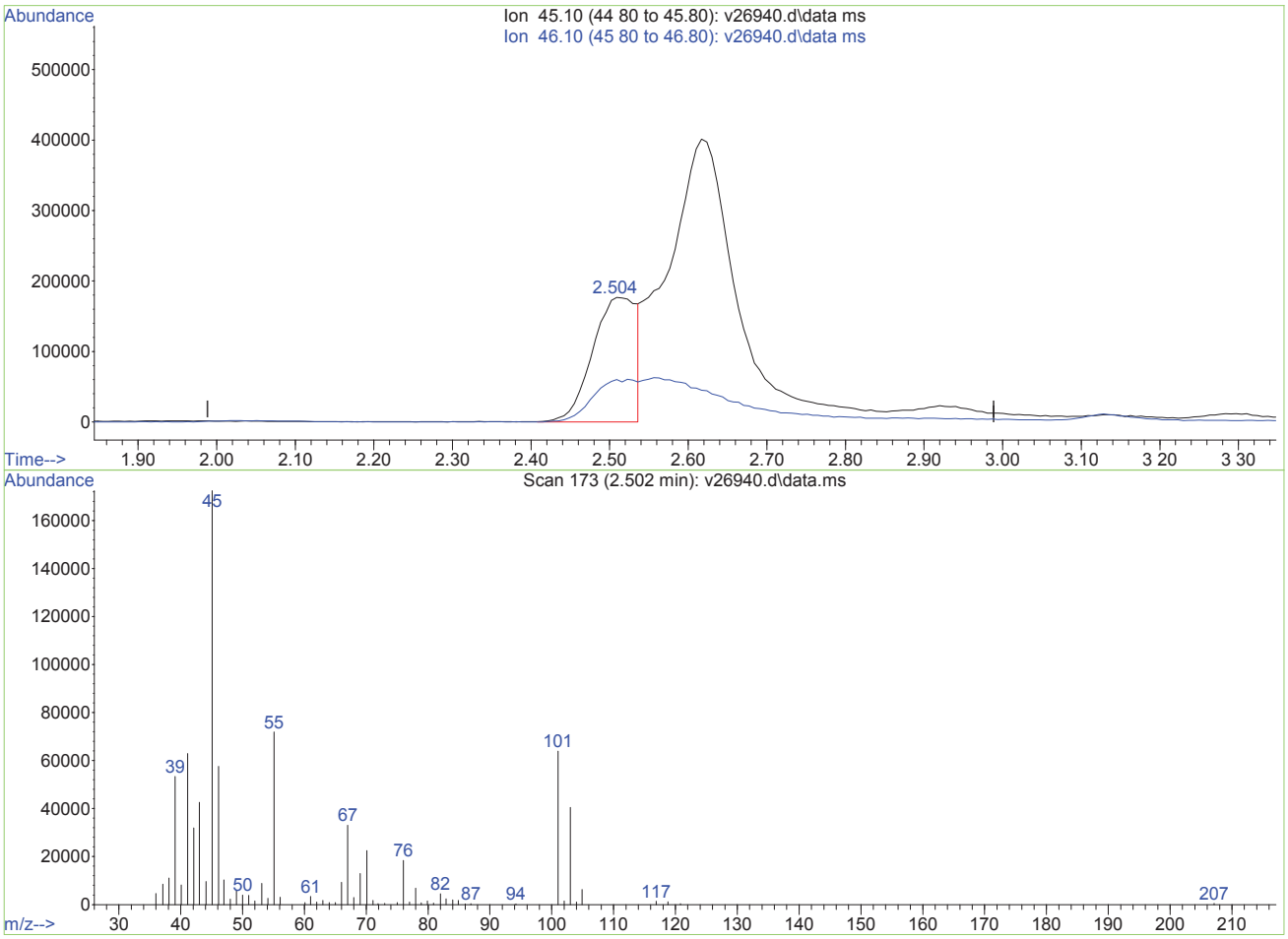
Ion	Exp%	Act%
45.10	100	0.00
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26940.D edits: Ethanol

Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:50:05 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26940.d\data.ms

(2) Ethanol (p)

2.502min (+0.014) 19824.86ug/L m

response 690608

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

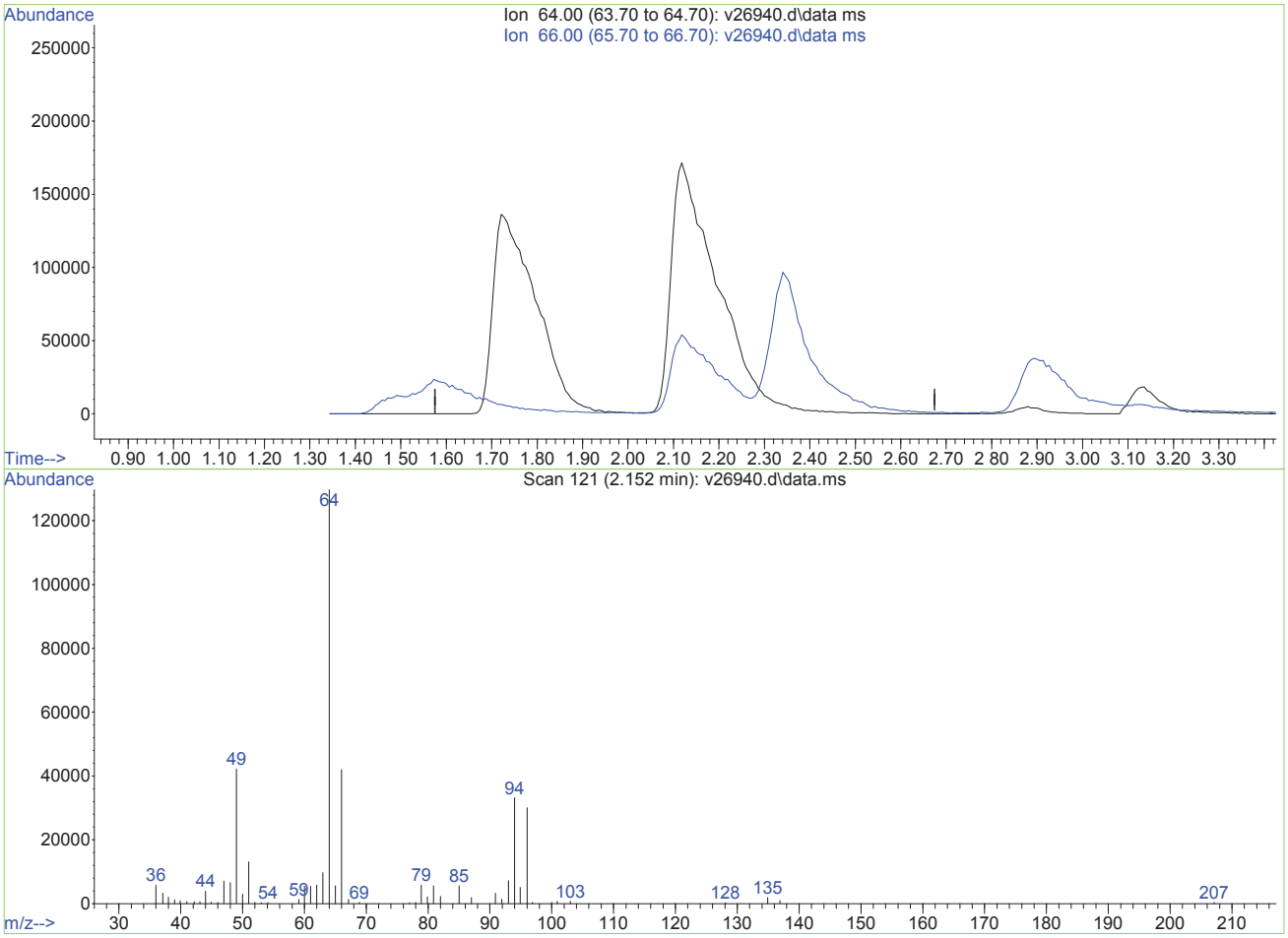
V26940.D edits: Ethanol

SGS ACCUTEST MC27977

Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:50:05 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26940.d\data.ms

(4) chloroethane (p)

2.155min (-2.155) 0.00ug/L

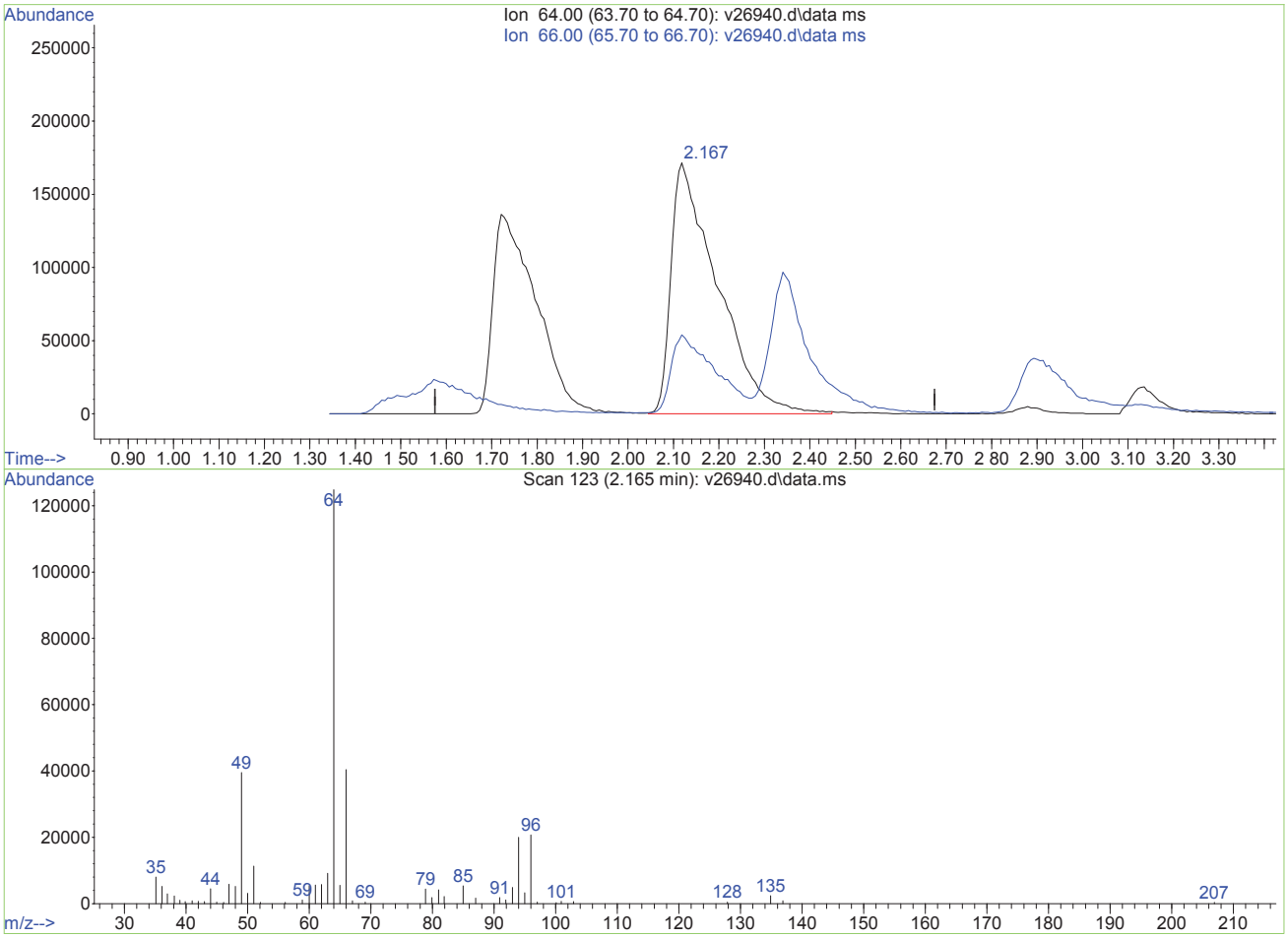
response 0

Ion	Exp%	Act%
64.00	100	0.00
66.00	34.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26940.D edits: chloroethane

Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:50:05 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26940.d\data.ms

(4) chloroethane (p)

2.165min (+0.010) 180.75ug/L m

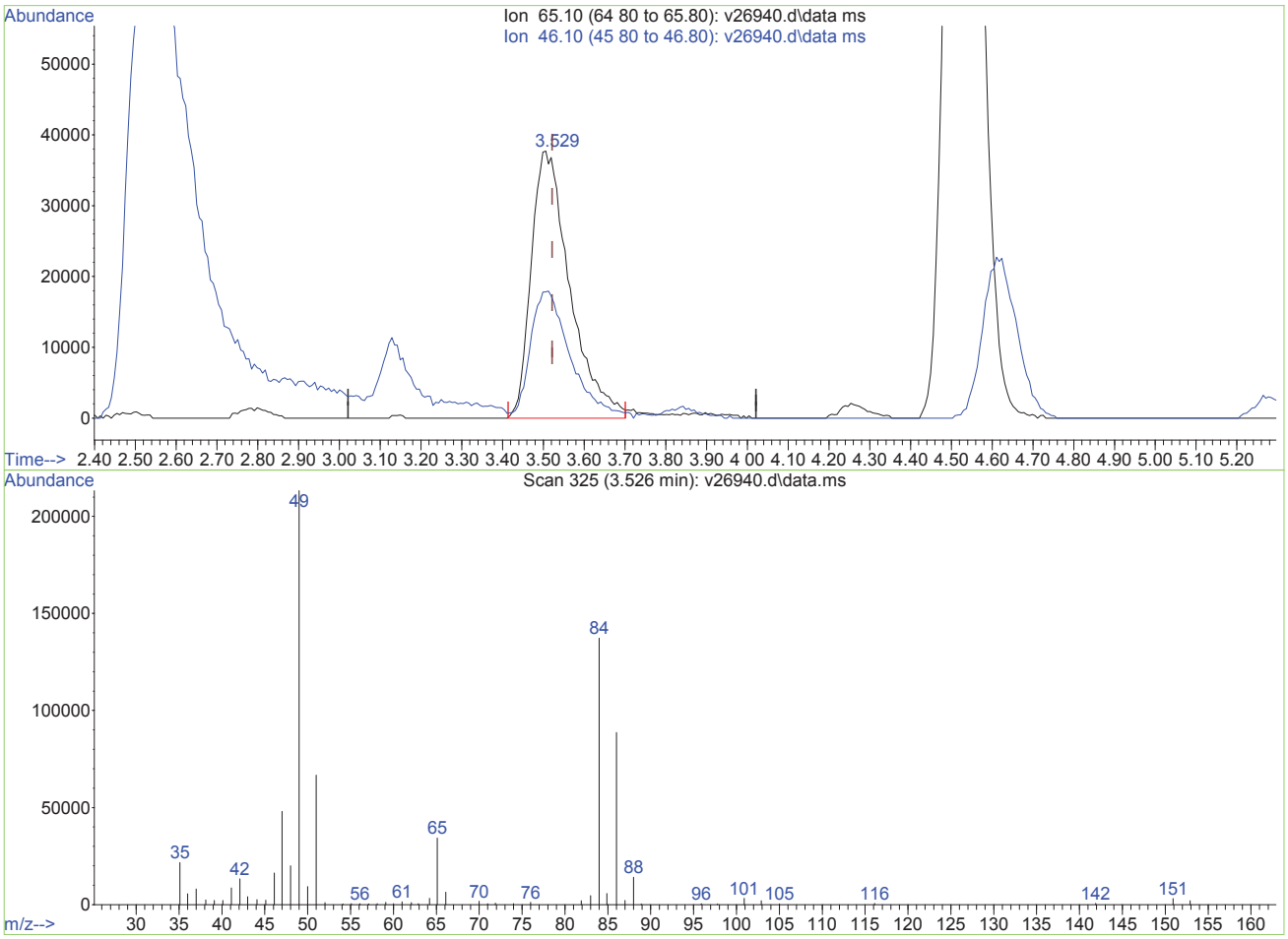
response 1217177

Ion	Exp%	Act%
64.00	100	100
66.00	34.60	32.37
0.00	0.00	0.00
0.00	0.00	0.00

V26940.D edits: chloroethane

Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:56:38 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26940.d\data.ms

(1) tert butyl alcohol-d9 (I)

3.526min (+0.004) 500.00ug/L m

response 248311

Ion	Exp%	Act%
65.10	100	100
46.10	54.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26940.D edits: tert butyl alcohol-d9

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26942.d
Acq On : 7 Jan 2014 5:47 pm
Operator : amym
Sample : ic1019-400
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 12 11:57:12 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

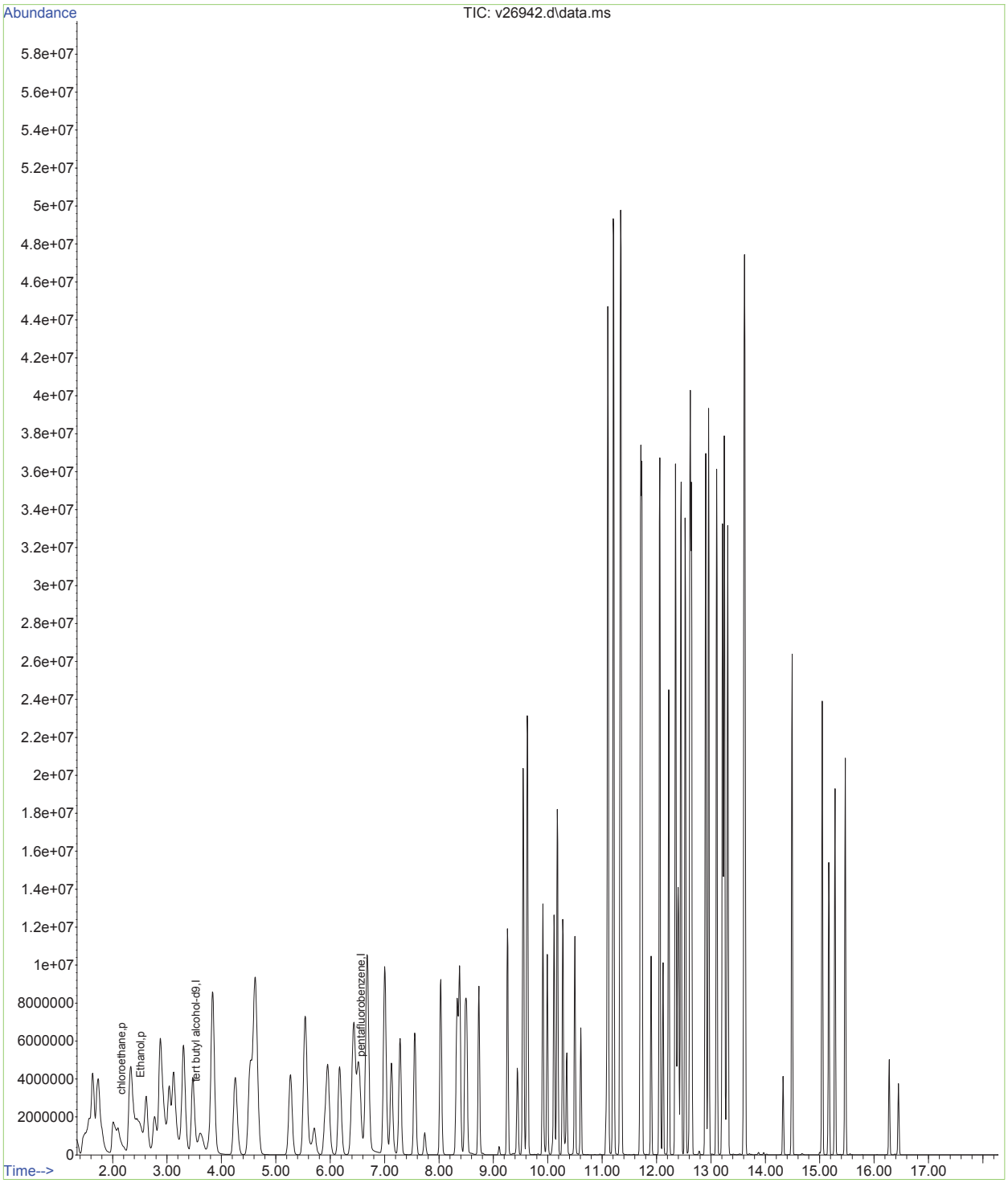
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) tert butyl alcohol-d9	3.528	65	280929	500.00 ug/L	0.00
3) pentafluorobenzene	6.561	168	994052	50.00 ug/L	0.00
Target Compounds					Qvalue
2) Ethanol	2.509	45	1732790m	43966.69 ug/L	
4) chloroethane	2.160	64	2471921	305.53 ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST MC27977

Data Path : O:\msv\1\databackup\v140107\
Data File : v26942.d
Acq On : 7 Jan 2014 5:47 pm
Operator : amym
Sample : ic1019-400
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

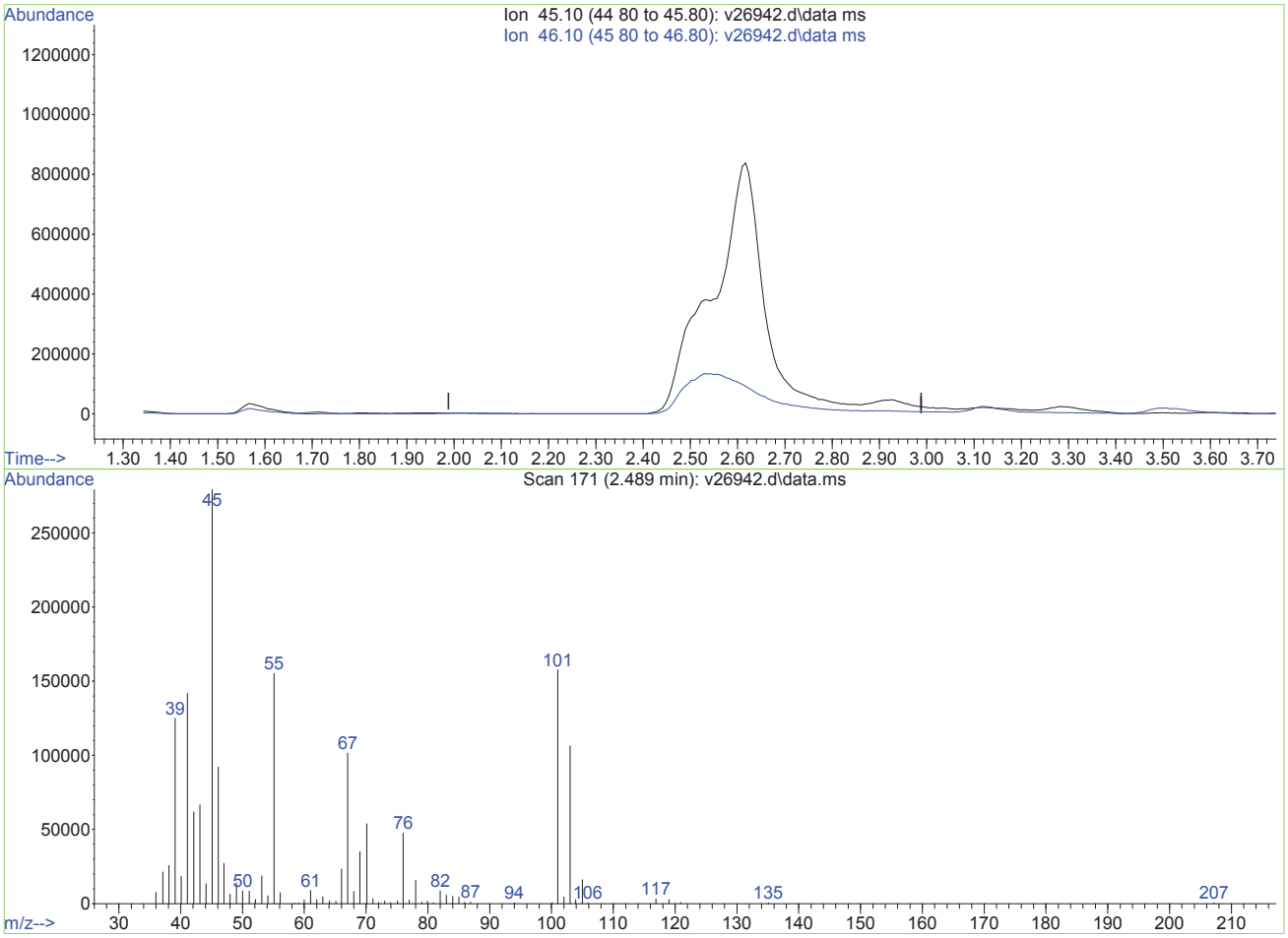
Quant Time: Oct 12 11:57:12 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



SGS ACCUTEST MC27977

Data Path : O:\msv\1\databackup\v140107\
Data File : v26942.d
Acq On : 7 Jan 2014 5:47 pm
Operator : amym
Sample : ic1019-400
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 12 11:50:07 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26942.d\data.ms

(2) Ethanol (p)

2.489min (-2.489) 0.00ug/L

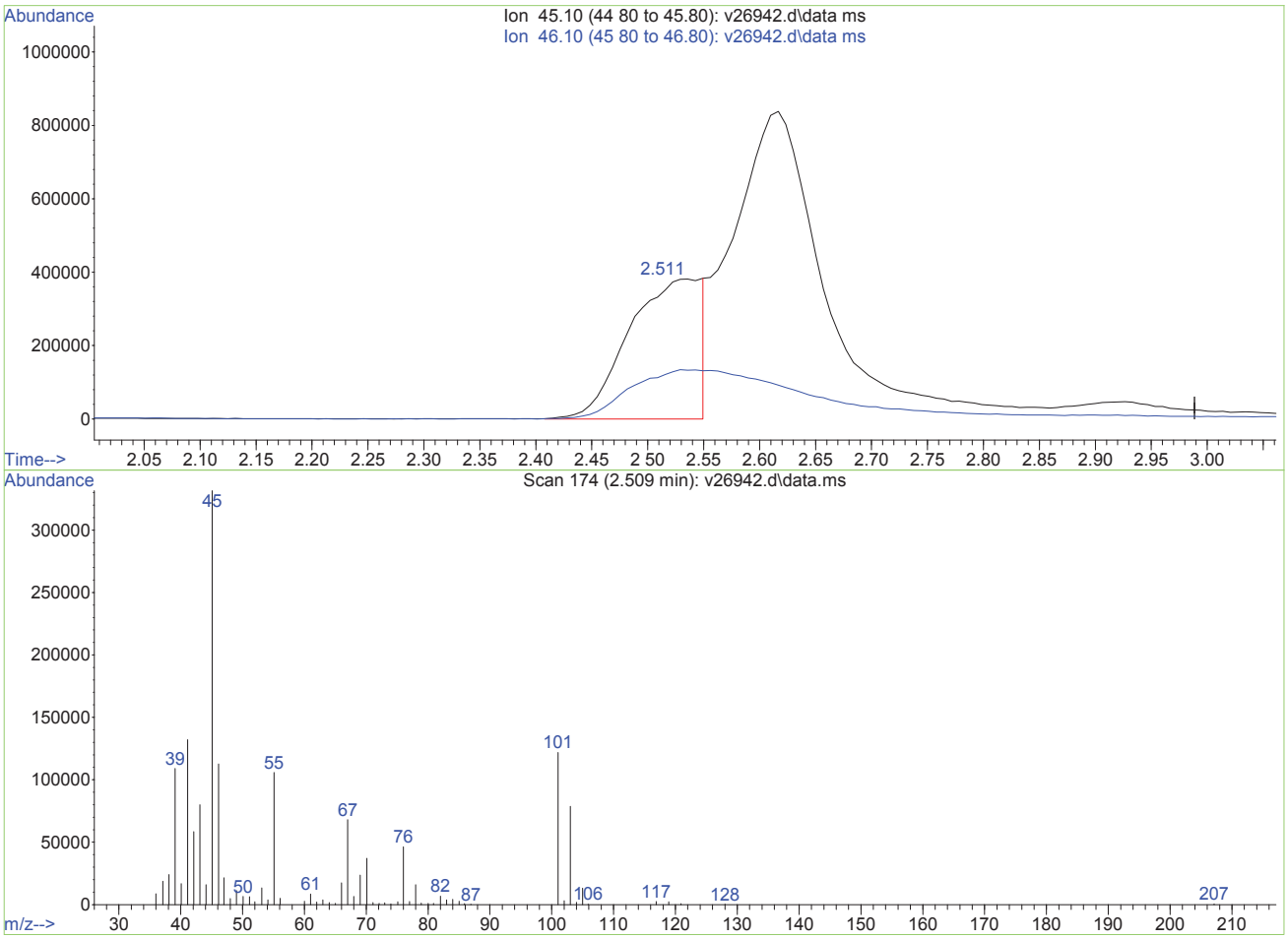
response 0

Ion	Exp%	Act%
45.10	100	0.00
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26942.D edits: Ethanol

Data Path : O:\msv\1\databackup\v140107\
Data File : v26942.d
Acq On : 7 Jan 2014 5:47 pm
Operator : amym
Sample : ic1019-400
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 12 11:50:07 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26942.d\data.ms

(2) Ethanol (p)

2.509min (+0.020) 43966.69ug/L m

response 1732790

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26942.D edits: Ethanol

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26944.d
Acq On : 7 Jan 2014 7:05 pm
Operator : amym
Sample : icv1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

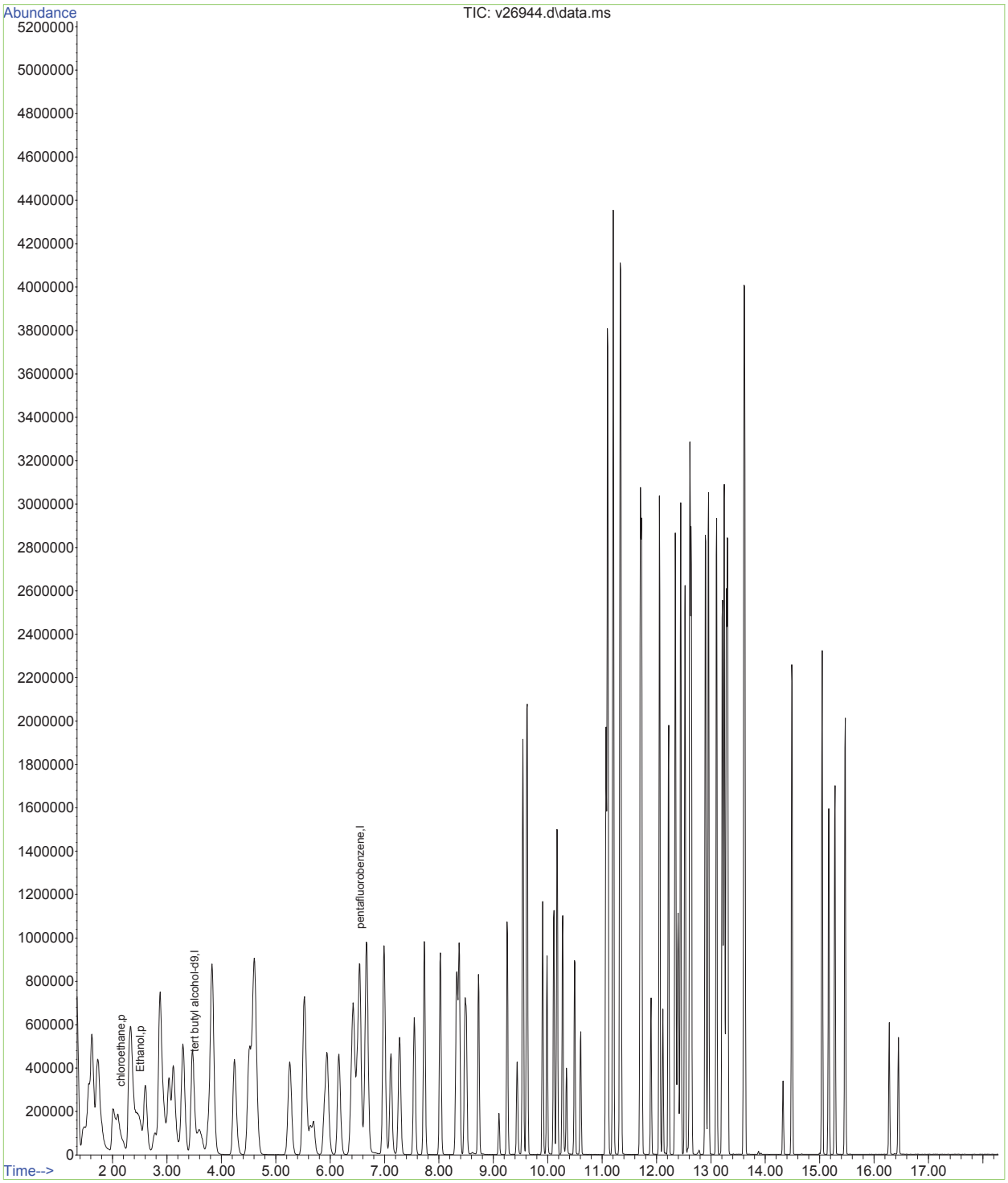
Quant Time: Oct 12 12:04:13 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.508	65	215524	500.00	ug/L	-0.01
3) pentafluorobenzene	6.550	168	735695	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.502	45	219095m	6281.66	ug/L	
4) chloroethane	2.149	64	314843	55.64	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msv\1\databackup\v140107\
Data File : v26944.d
Acq On : 7 Jan 2014 7:05 pm
Operator : amym
Sample : icv1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

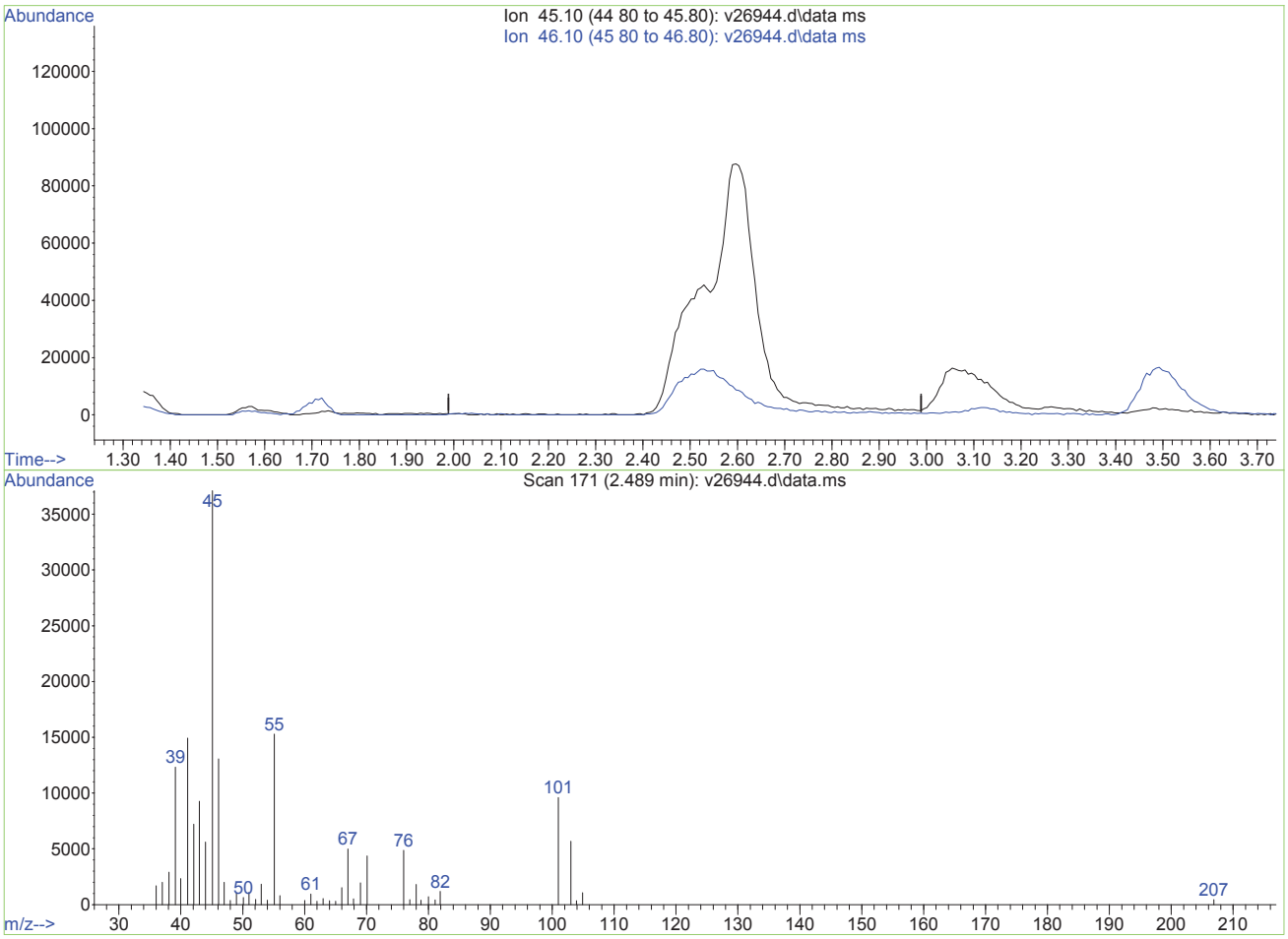
Quant Time: Oct 12 12:04:13 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26944.d
Acq On : 7 Jan 2014 7:05 pm
Operator : amym
Sample : icv1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 12 12:03:55 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



TIC: v26944.d\data.ms

(2) Ethanol (p)

2.489min (-2.489) 0.00ug/L

response 0

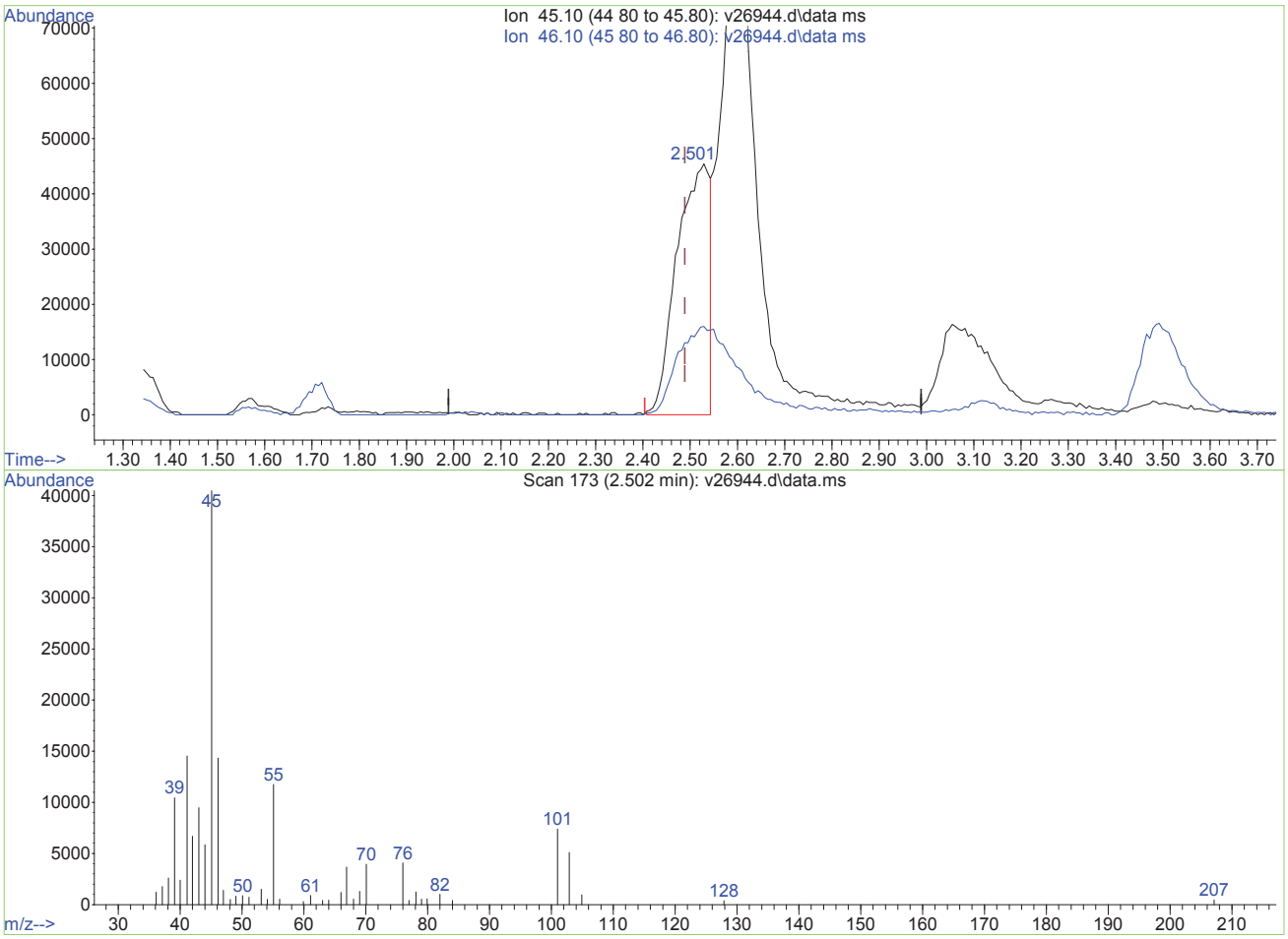
Ion	Exp%	Act%
45.10	100	0.00
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26944.D edits: Ethanol

SGS ACCUTEST MC27977

Data Path : O:\msv\1\databackup\v140107\
Data File : v26944.d
Acq On : 7 Jan 2014 7:05 pm
Operator : amym
Sample : icv1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 12 12:03:55 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



TIC: v26944.d\data.ms

(2) Ethanol (p)

2.502min (+0.013) 6281.66ug/L m

response 219095

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26944.D edits: Ethanol

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140204\
Data File : v27607.d
Acq On : 4 Feb 2014 10:10 am
Operator : amym
Sample : cc1019-50
Misc : MS31072,MSV1041,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 19 20:54:26 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

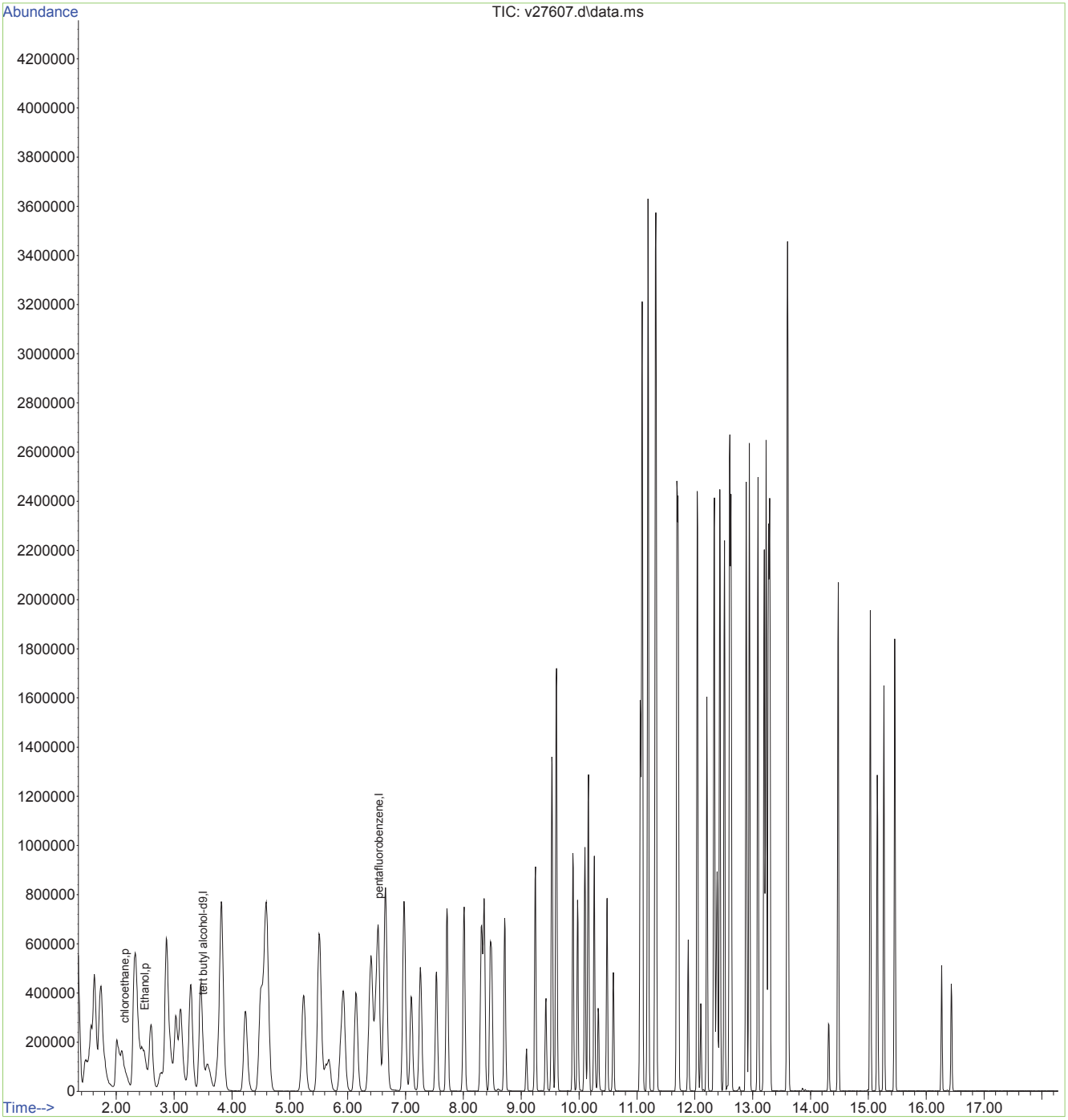
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.498	65	214114	500.00	ug/L	-0.02
3) pentafluorobenzene	6.534	168	572790	50.00	ug/L	-0.02
Target Compounds						Qvalue
2) Ethanol	2.494	45	206161	5924.43	ug/L	# 1
4) chloroethane	2.147	64	283784	64.55	ug/L	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140204\
Data File : v27607.d
Acq On : 4 Feb 2014 10:10 am
Operator : amym
Sample : cc1019-50
Misc : MS31072,MSV1041,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 19 20:54:26 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140205\
Data File : v27637.d
Acq On : 5 Feb 2014 9:23 am
Operator : amym
Sample : cc1019-50
Misc : MS31082,MSV1042,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 19 21:13:54 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

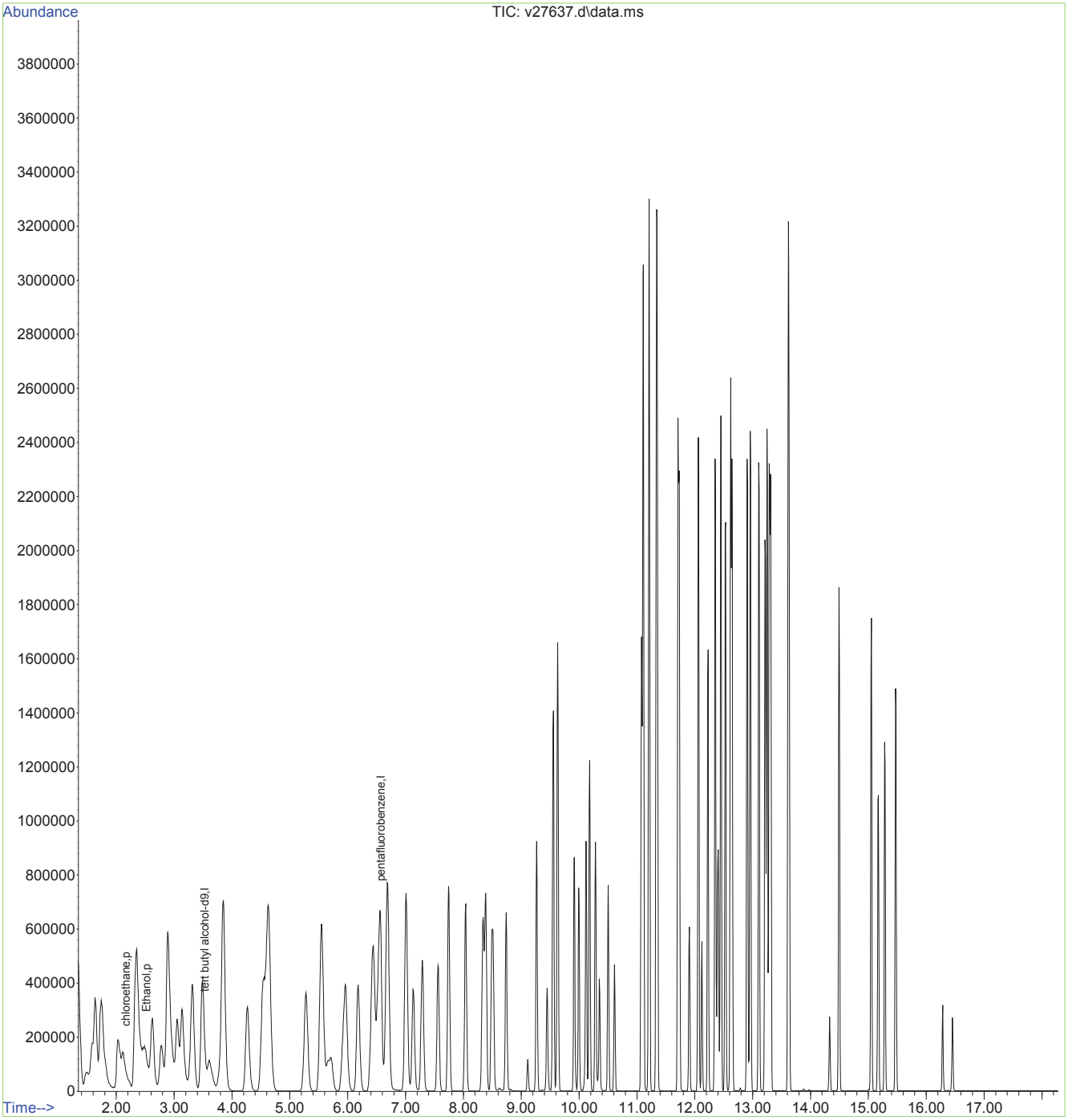
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.528	65	217472	500.00	ug/L	0.00
3) pentafluorobenzene	6.568	168	573160	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.520	45	214946	6094.21	ug/L	# 1
4) chloroethane	2.166	64	232170	52.61	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140205\
Data File : v27637.d
Acq On : 5 Feb 2014 9:23 am
Operator : amym
Sample : cc1019-50
Misc : MS31082,MSV1042,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 19 21:13:54 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



SGS ACCUTEST MC27977

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140204\
Data File : v27611.d
Acq On : 4 Feb 2014 11:56 am
Operator : amym
Sample : mc27977-6
Misc : MS31075,MSV1041,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 19 20:57:59 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.497	65	168294	500.00	ug/L	-0.03
3) pentafluorobenzene	6.535	168	467035	50.00	ug/L	-0.02

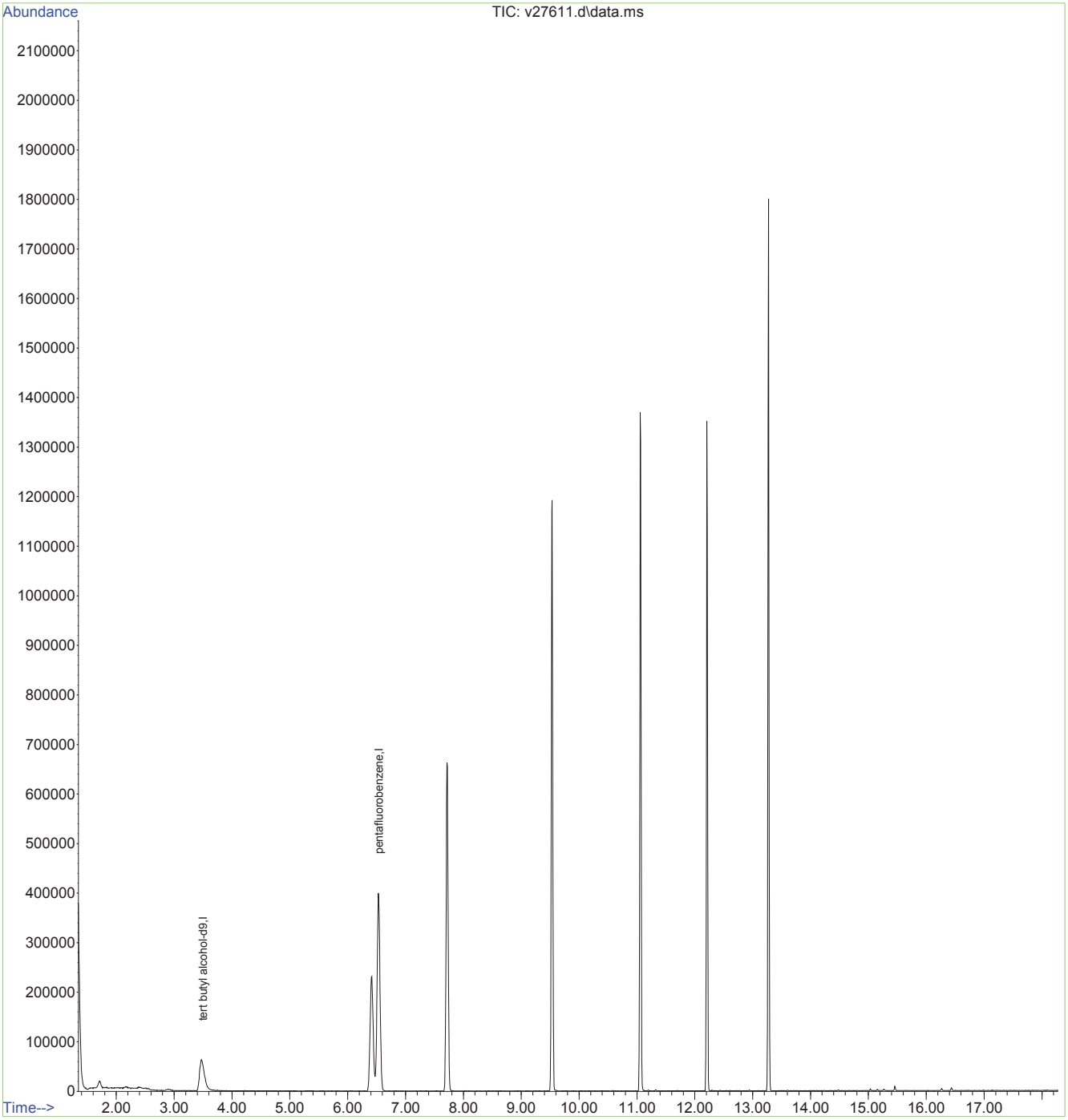
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140204\
Data File : v27611.d
Acq On : 4 Feb 2014 11:56 am
Operator : amym
Sample : mc27977-6
Misc : MS31075,MSV1041,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 19 20:57:59 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140204\
Data File : v27612.d
Acq On : 4 Feb 2014 12:23 pm
Operator : amym
Sample : mc27977-2
Misc : MS31075,MSV1041,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 19 20:58:15 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.511	65	193791	500.00	ug/L	-0.01
3) pentafluorobenzene	6.543	168	476951	50.00	ug/L	-0.02

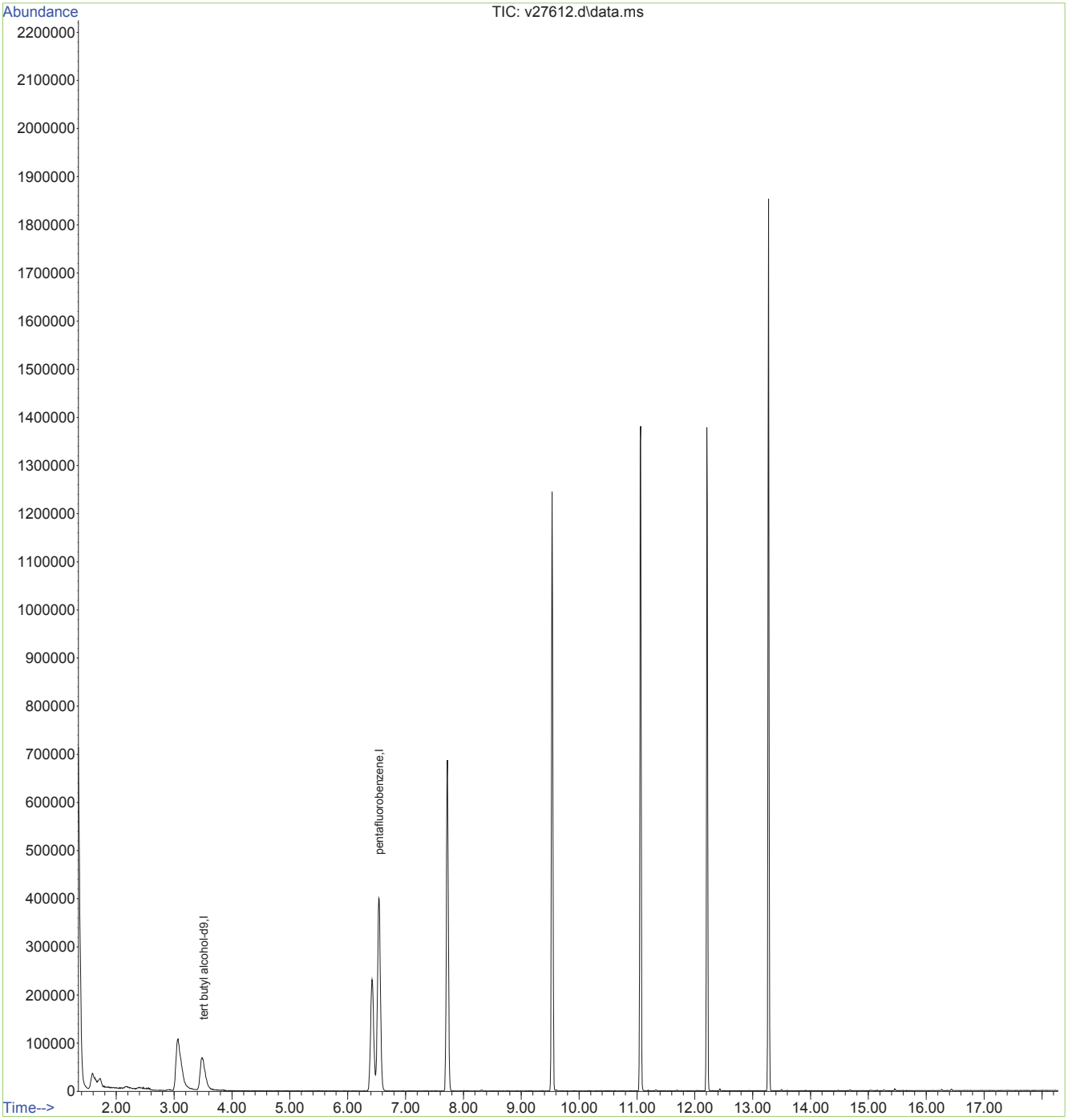
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140204\
Data File : v27612.d
Acq On : 4 Feb 2014 12:23 pm
Operator : amym
Sample : mc27977-2
Misc : MS31075,MSV1041,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 19 20:58:15 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140204\
Data File : v27616.d
Acq On : 4 Feb 2014 4:04 pm
Operator : amym
Sample : mc27977-1
Misc : MS31075,MSV1041,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 19 20:59:23 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.498	65	192857	500.00	ug/L	-0.02
3) pentafluorobenzene	6.537	168	516738	50.00	ug/L	-0.02

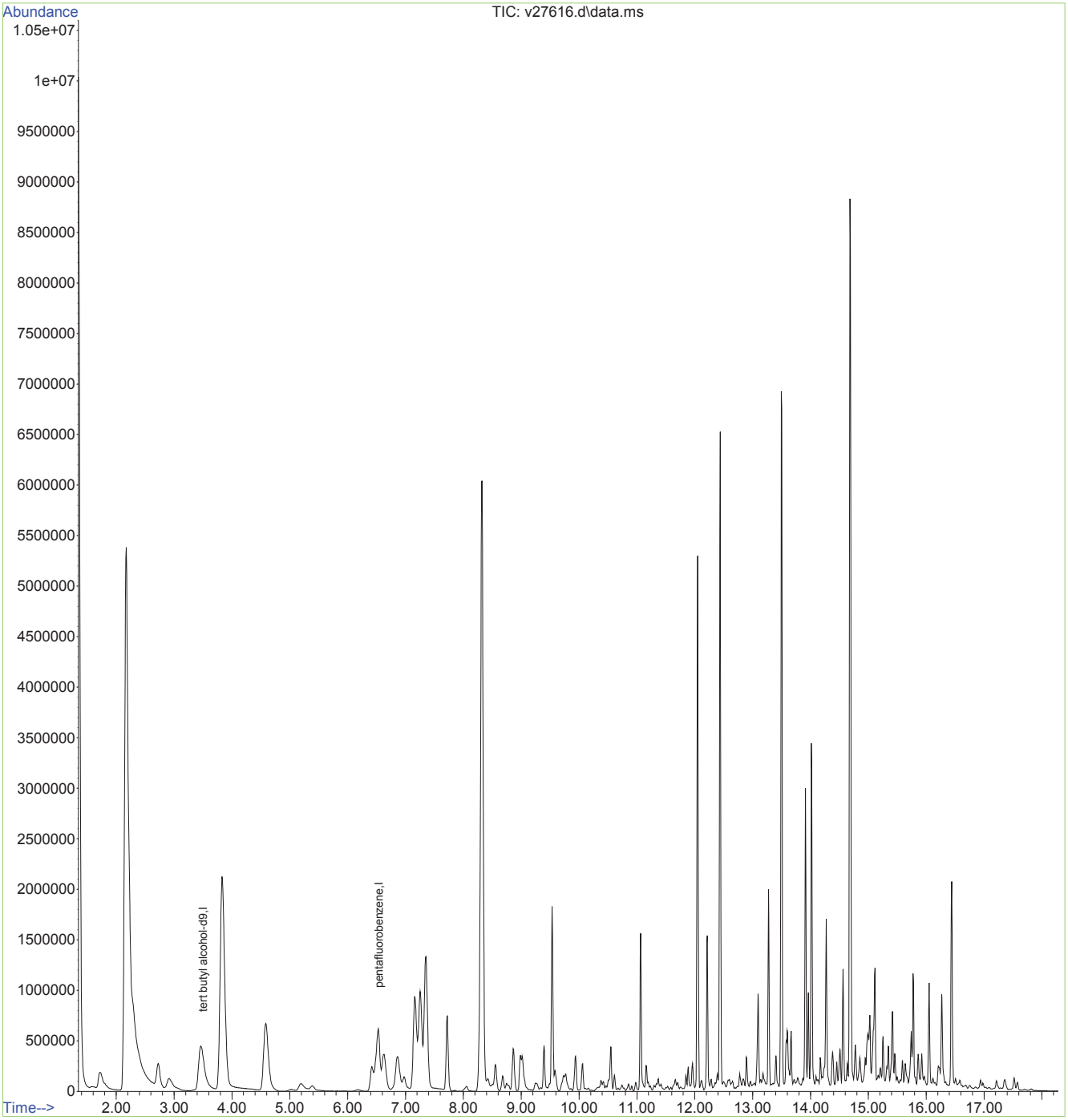
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140204\
Data File : v27616.d
Acq On : 4 Feb 2014 4:04 pm
Operator : amym
Sample : mc27977-1
Misc : MS31075,MSV1041,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 19 20:59:23 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140204\
Data File : v27617.d
Acq On : 4 Feb 2014 4:31 pm
Operator : amym
Sample : mc27977-3
Misc : MS31075,MSV1041,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 19 21:00:08 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.513	65	201820	500.00	ug/L	# 0.00
3) pentafluorobenzene	6.540	168	530903	50.00	ug/L	-0.02

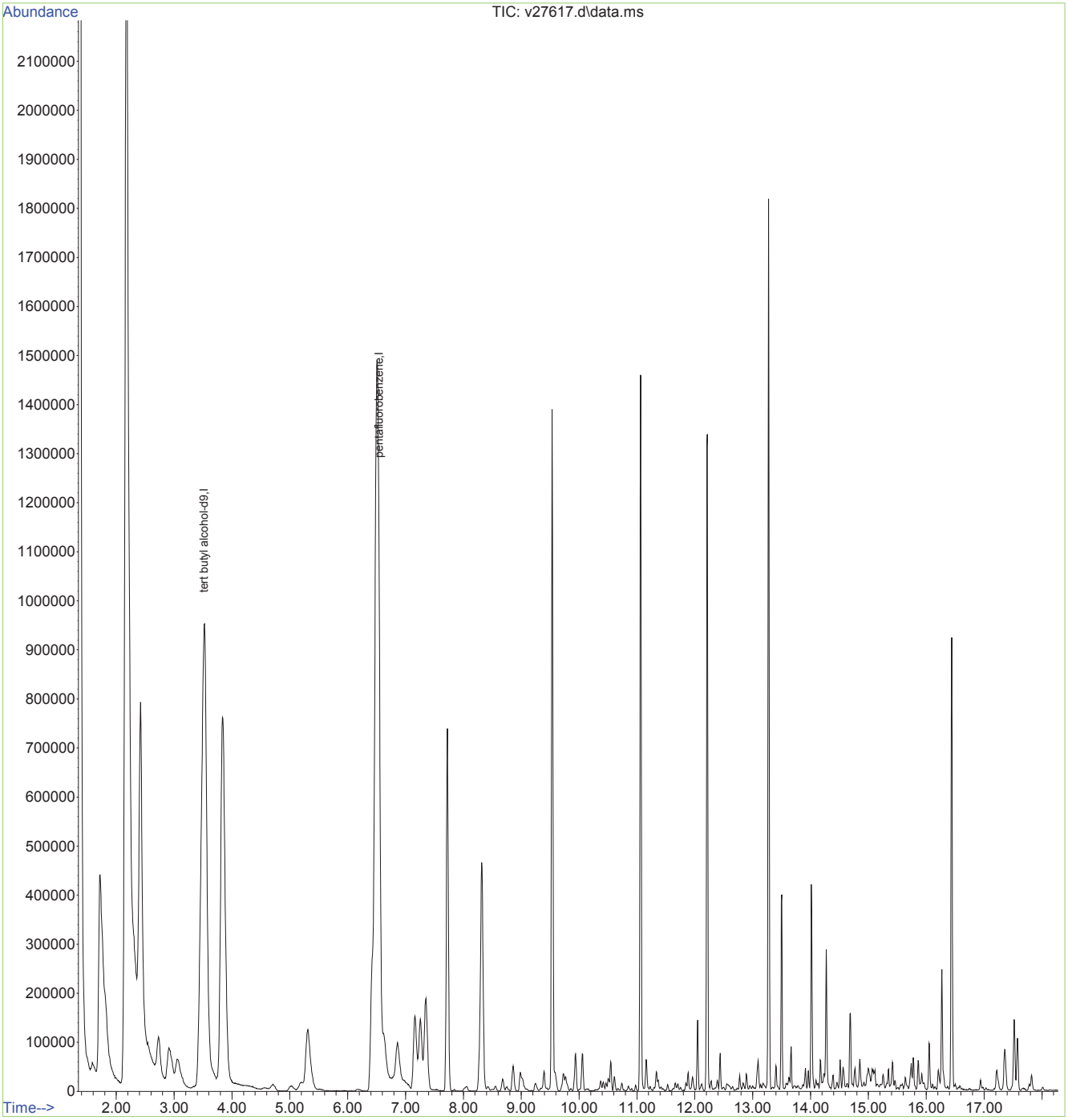
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140204\
Data File : v27617.d
Acq On : 4 Feb 2014 4:31 pm
Operator : amym
Sample : mc27977-3
Misc : MS31075,MSV1041,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 19 21:00:08 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140204\
Data File : v27618.d
Acq On : 4 Feb 2014 4:58 pm
Operator : amym
Sample : mc27977-5
Misc : MS31075,MSV1041,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 19 21:00:55 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.508	65	174726	500.00	ug/L	-0.01
3) pentafluorobenzene	6.541	168	480119	50.00	ug/L	-0.02

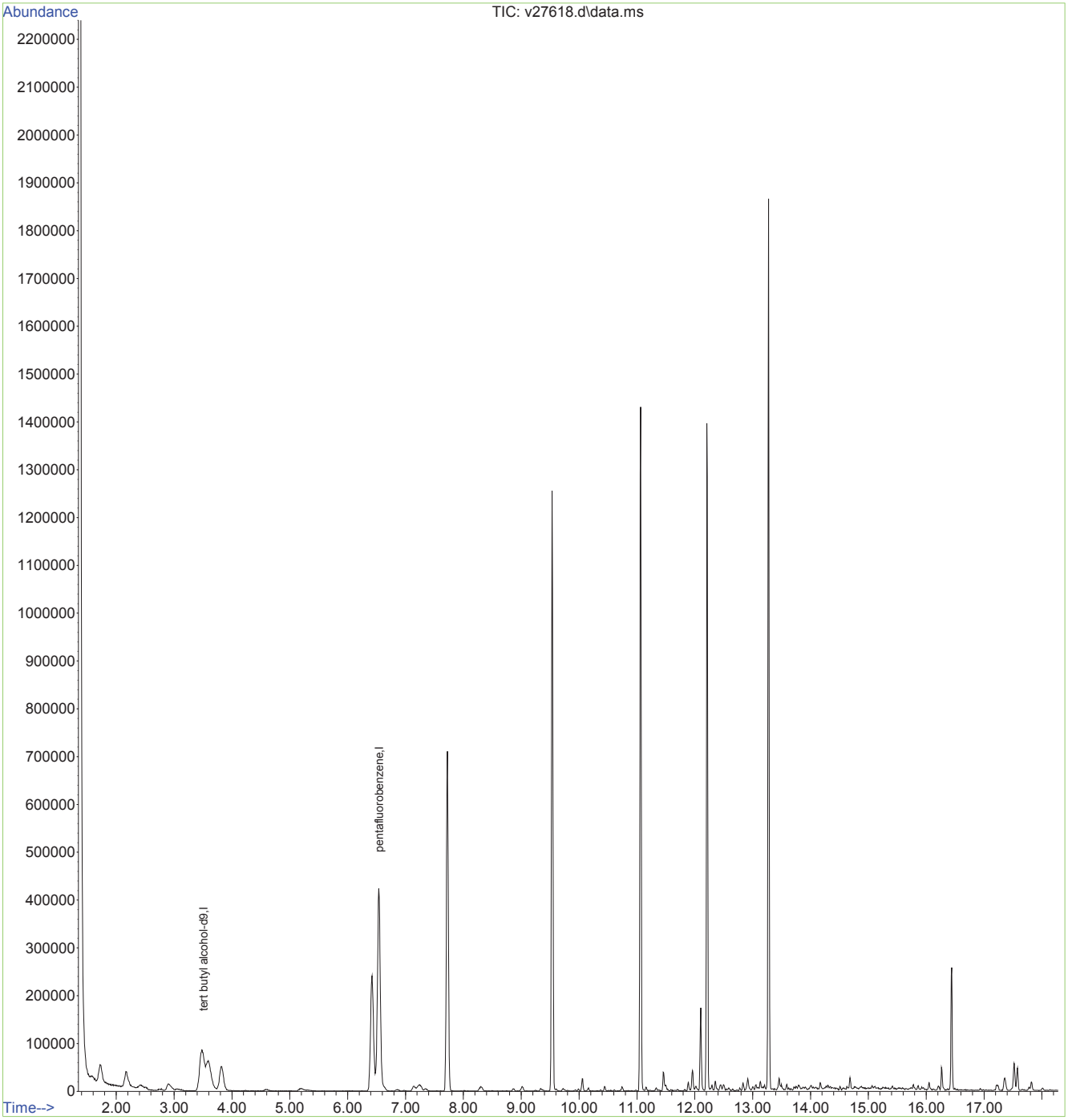
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140204\
Data File : v27618.d
Acq On : 4 Feb 2014 4:58 pm
Operator : amym
Sample : mc27977-5
Misc : MS31075,MSV1041,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 19 21:00:55 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140205\
Data File : v27647.d
Acq On : 5 Feb 2014 1:47 pm
Operator : amym
Sample : mc27977-4
Misc : MS31075,MSV1042,,,,5,500
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 19 21:18:02 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.546	65	155274	500.00	ug/L	0.02
3) pentafluorobenzene	6.594	168	381085	50.00	ug/L	0.03

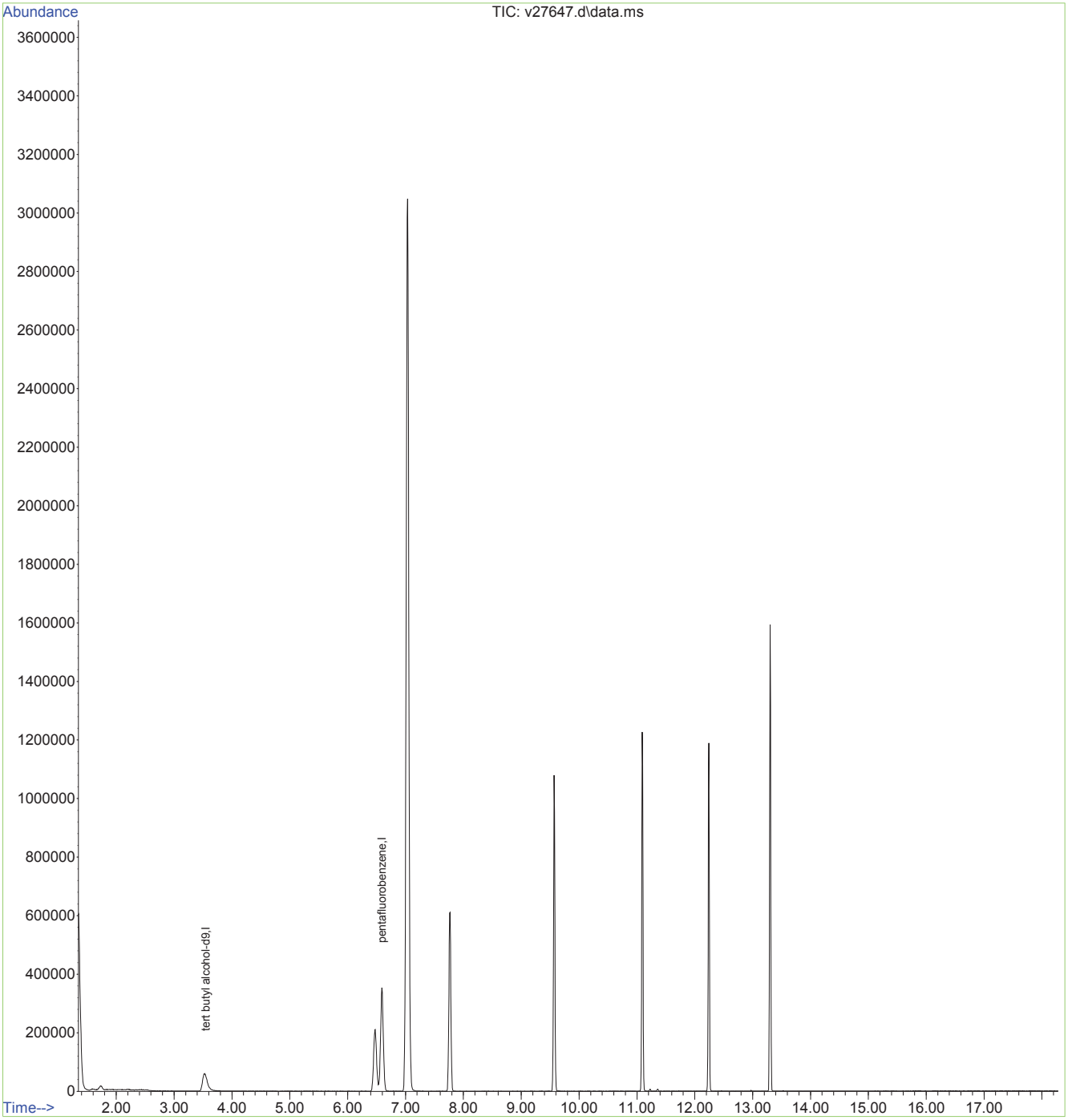
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140205\
Data File : v27647.d
Acq On : 5 Feb 2014 1:47 pm
Operator : amym
Sample : mc27977-4
Misc : MS31075,MSV1042,,,,5,500
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 19 21:18:02 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140204\
Data File : v27607.d
Acq On : 4 Feb 2014 10:10 am
Operator : amym
Sample : cc1019-50
Misc : MS31072,MSV1041,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 19 20:54:26 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

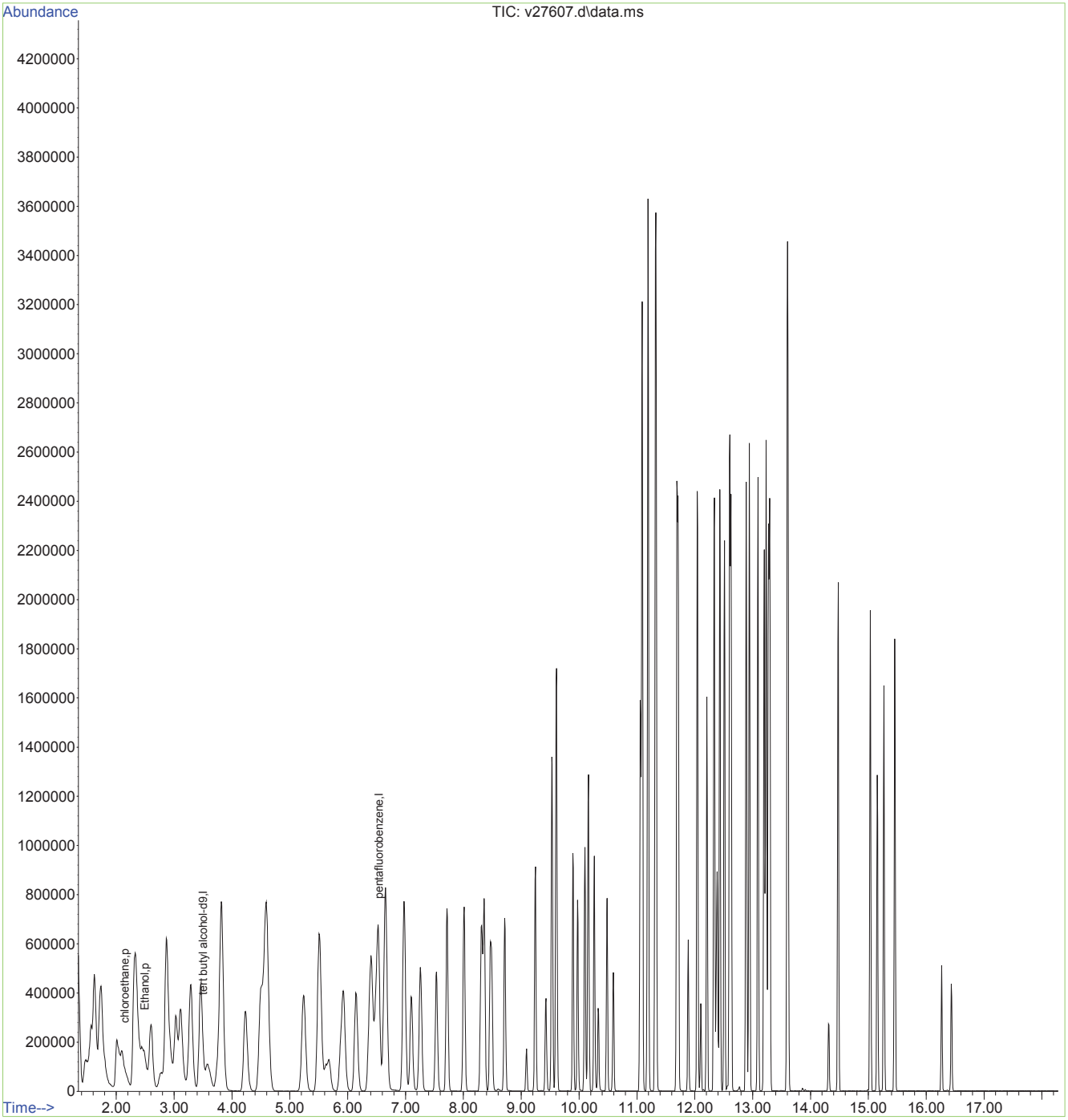
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.498	65	214114	500.00	ug/L	-0.02
3) pentafluorobenzene	6.534	168	572790	50.00	ug/L	-0.02
Target Compounds						Qvalue
2) Ethanol	2.494	45	206161	5924.43	ug/L	# 1
4) chloroethane	2.147	64	283784	64.55	ug/L	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140204\
Data File : v27607.d
Acq On : 4 Feb 2014 10:10 am
Operator : amym
Sample : cc1019-50
Misc : MS31072,MSV1041,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 19 20:54:26 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140204\
Data File : v27608.d
Acq On : 4 Feb 2014 10:37 am
Operator : amym
Sample : bsd
Misc : MS31072,MSV1041,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 19 20:56:58 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

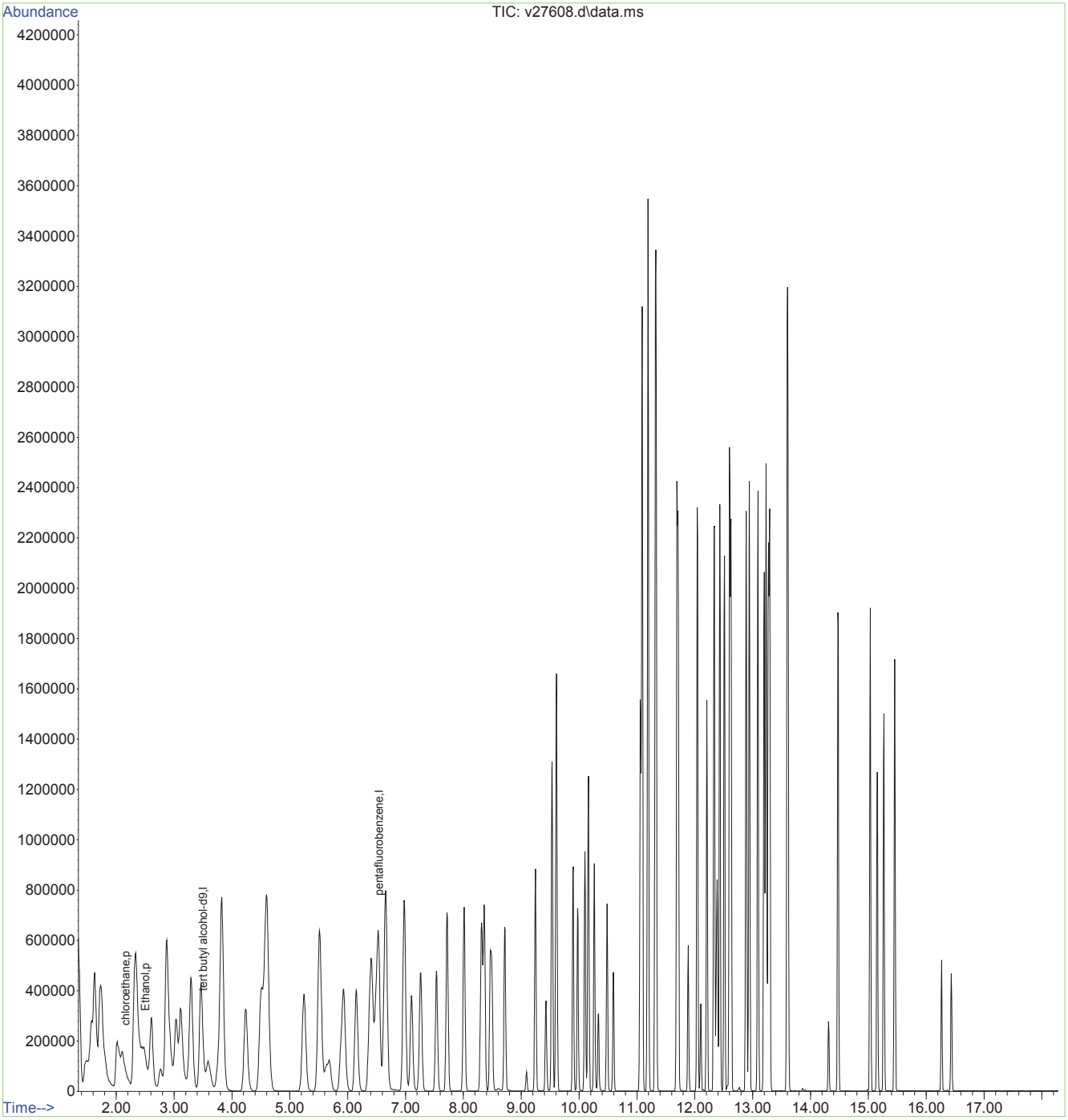
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.501	65	201353	500.00	ug/L	-0.02
3) pentafluorobenzene	6.537	168	558094	50.00	ug/L	-0.02
Target Compounds						Qvalue
2) Ethanol	2.502	45	224335	6930.56	ug/L	# 1
4) chloroethane	2.157	64	272162	63.52	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140204\
Data File : v27608.d
Acq On : 4 Feb 2014 10:37 am
Operator : amym
Sample : bsd
Misc : MS31072,MSV1041,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 19 20:56:58 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140204\
Data File : v27610.d
Acq On : 4 Feb 2014 11:30 am
Operator : amym
Sample : mb
Misc : MS31066,MSV1041,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 19 20:57:27 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.500	65	174194	500.00	ug/L	-0.02
3) pentafluorobenzene	6.535	168	468370	50.00	ug/L	-0.02

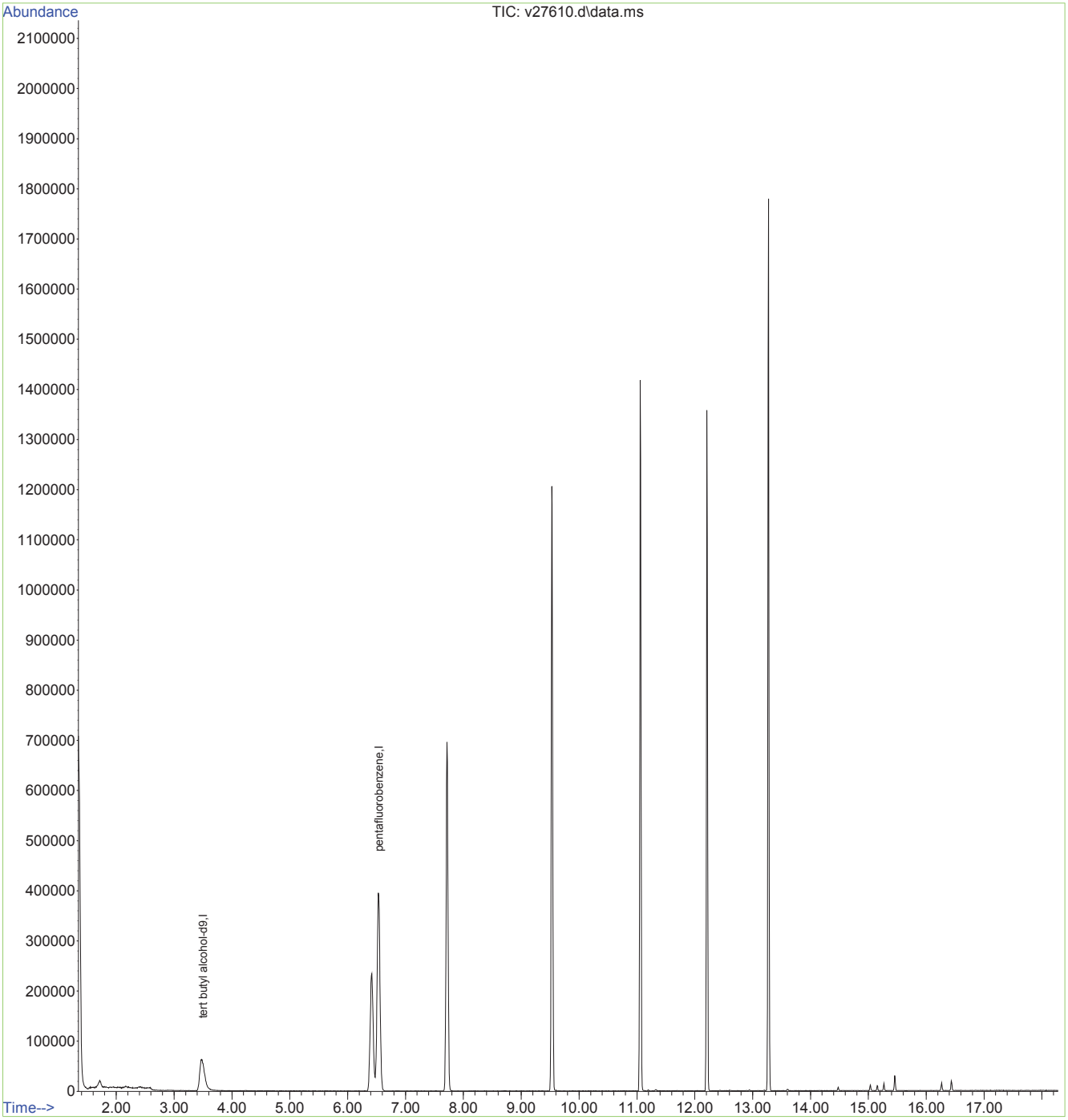
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140204\
Data File : v27610.d
Acq On : 4 Feb 2014 11:30 am
Operator : amym
Sample : mb
Misc : MS31066,MSV1041,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 19 20:57:27 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140204\
Data File : v27623.d
Acq On : 4 Feb 2014 7:10 pm
Operator : amym
Sample : mc27977-1ms
Misc : MS31075,MSV1041,,,,5,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 19 21:02:29 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

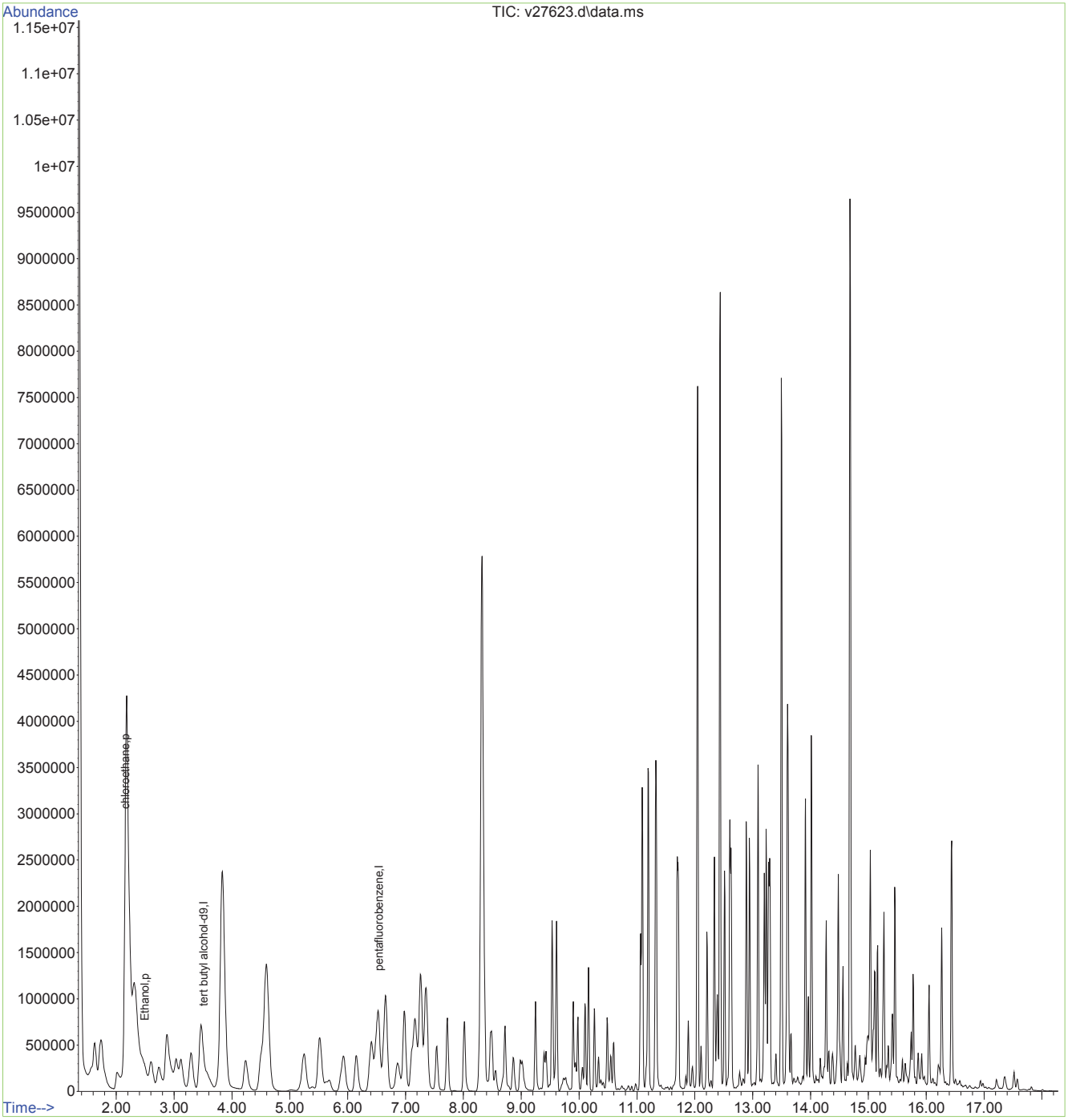
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.504	65	219803	500.00	ug/L	-0.02
3) pentafluorobenzene	6.540	168	559136	50.00	ug/L	-0.02
Target Compounds						Qvalue
2) Ethanol	2.496	45	175742	4838.29	ug/L	# 1
4) chloroethane	2.154	64	285994	66.67	ug/L	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140204\
Data File : v27623.d
Acq On : 4 Feb 2014 7:10 pm
Operator : amym
Sample : mc27977-1ms
Misc : MS31075,MSV1041,,,,5,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 19 21:02:29 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140204\
Data File : v27624.d
Acq On : 4 Feb 2014 7:37 pm
Operator : amym
Sample : mc27977-1msd
Misc : MS31075,MSV1041,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Nov 19 21:02:48 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

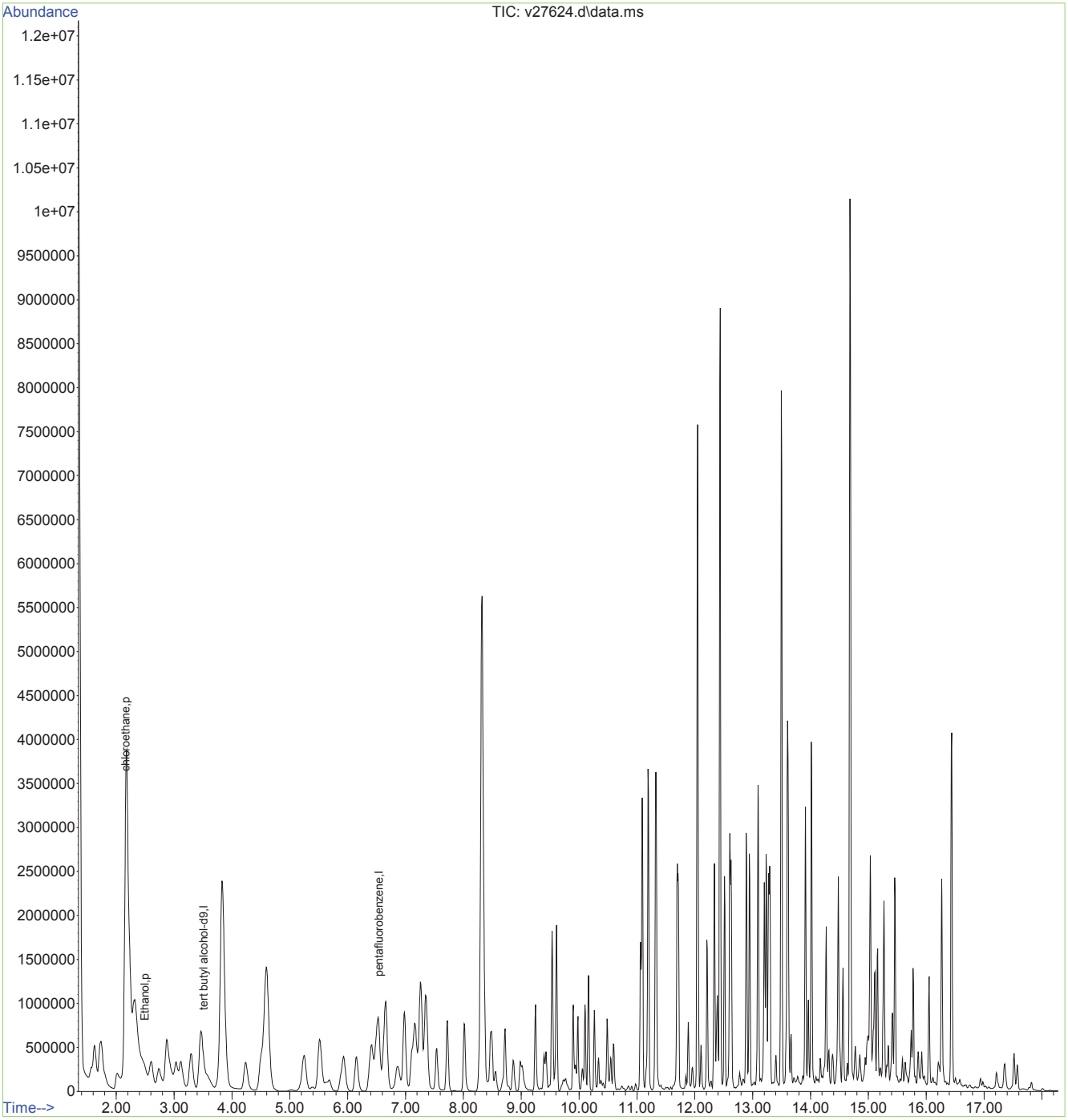
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.509	65	214735	500.00	ug/L	-0.01
3) pentafluorobenzene	6.540	168	564077	50.00	ug/L	-0.02
Target Compounds						Qvalue
2) Ethanol	2.497	45	155901	4349.28	ug/L	# 1
4) chloroethane	2.159	64	285480	65.96	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140204\
Data File : v27624.d
Acq On : 4 Feb 2014 7:37 pm
Operator : amym
Sample : mc27977-1msd
Misc : MS31075,MSV1041,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Nov 19 21:02:48 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140205\
Data File : v27638.d
Acq On : 5 Feb 2014 9:49 am
Operator : amym
Sample : bs
Misc : MS31082,MSV1042,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 19 21:15:14 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

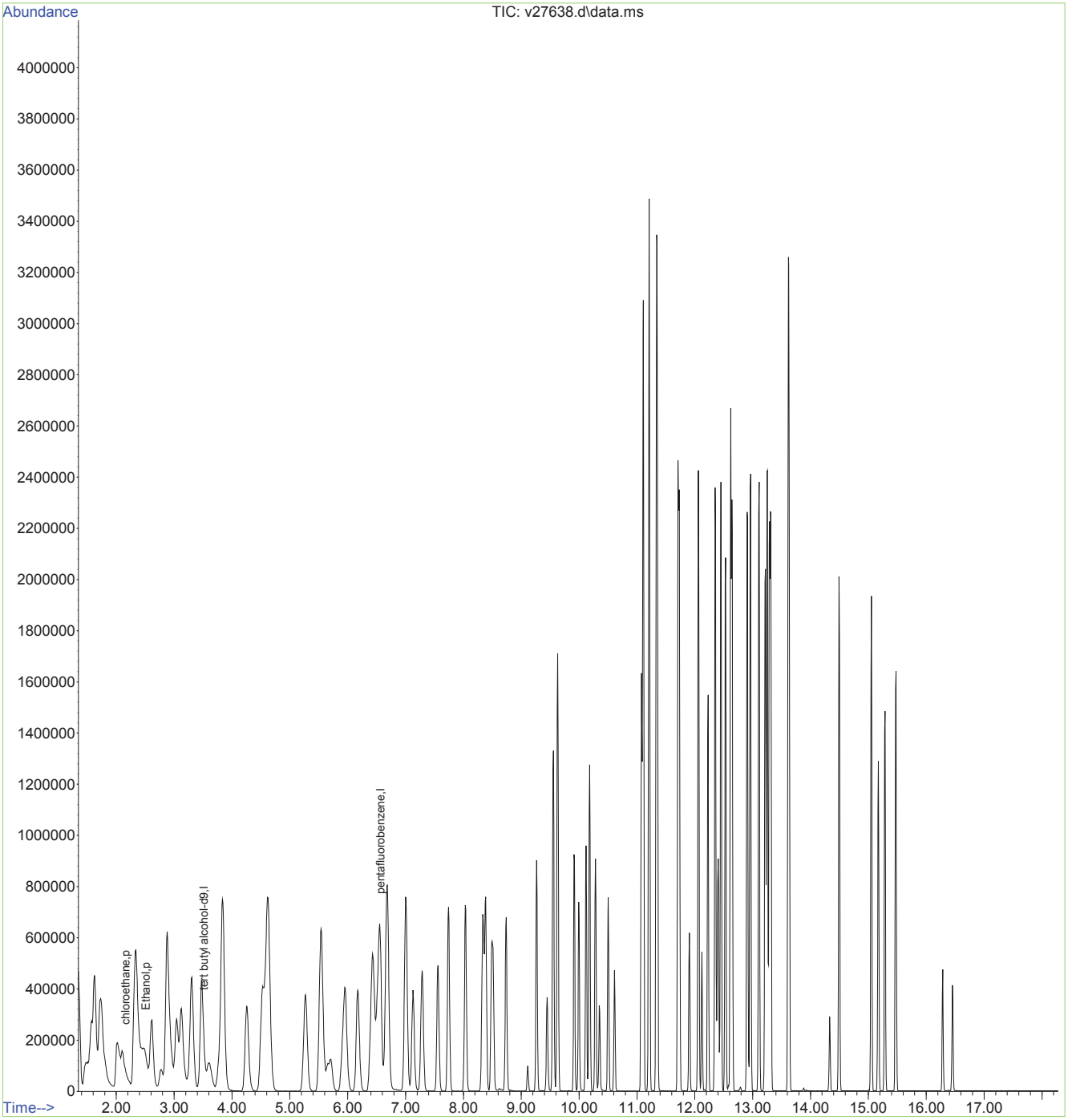
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.516	65	204204	500.00	ug/L	0.00
3) pentafluorobenzene	6.563	168	555130	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.507	45	199516	6018.78	ug/L	# 1
4) chloroethane	2.158	64	270112	63.38	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140205\
Data File : v27638.d
Acq On : 5 Feb 2014 9:49 am
Operator : amym
Sample : bs
Misc : MS31082,MSV1042,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 19 21:15:14 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140205\
Data File : v27639.d
Acq On : 5 Feb 2014 10:16 am
Operator : amym
Sample : bsd
Misc : MS31082,MSV1042,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 19 21:15:35 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

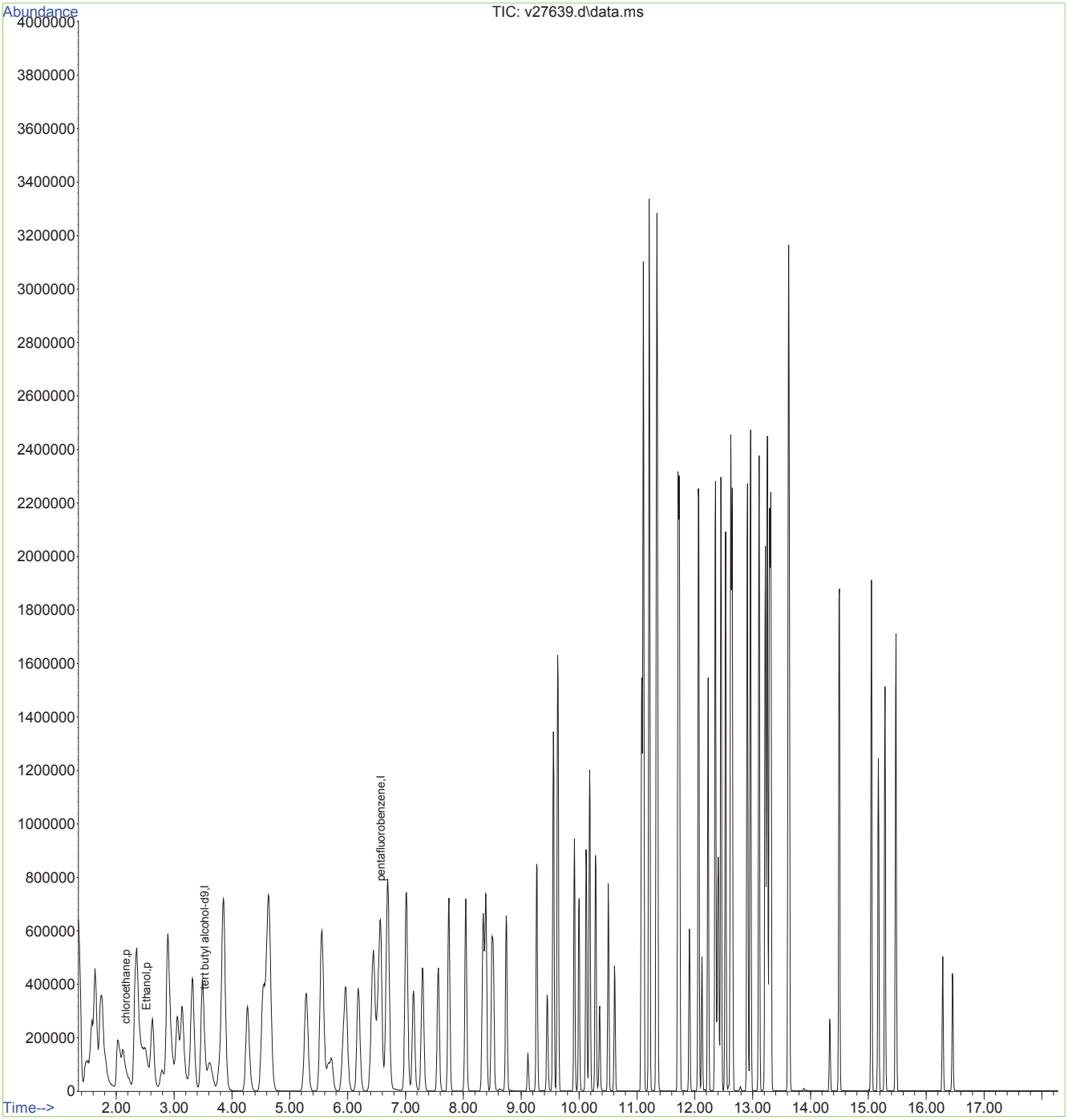
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.526	65	199054	500.00	ug/L	0.00
3) pentafluorobenzene	6.573	168	538538	50.00	ug/L	0.01
Target Compounds						Qvalue
2) Ethanol	2.520	45	201579	6255.82	ug/L	# 1
4) chloroethane	2.166	64	258668	62.55	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140205\
Data File : v27639.d
Acq On : 5 Feb 2014 10:16 am
Operator : amym
Sample : bsd
Misc : MS31082,MSV1042,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 19 21:15:35 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140205\
Data File : v27641.d
Acq On : 5 Feb 2014 11:09 am
Operator : amym
Sample : mb
Misc : MS31066,MSV1042,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 19 21:15:55 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.535	65	173323	500.00	ug/L	0.01
3) pentafluorobenzene	6.580	168	449418	50.00	ug/L	0.02

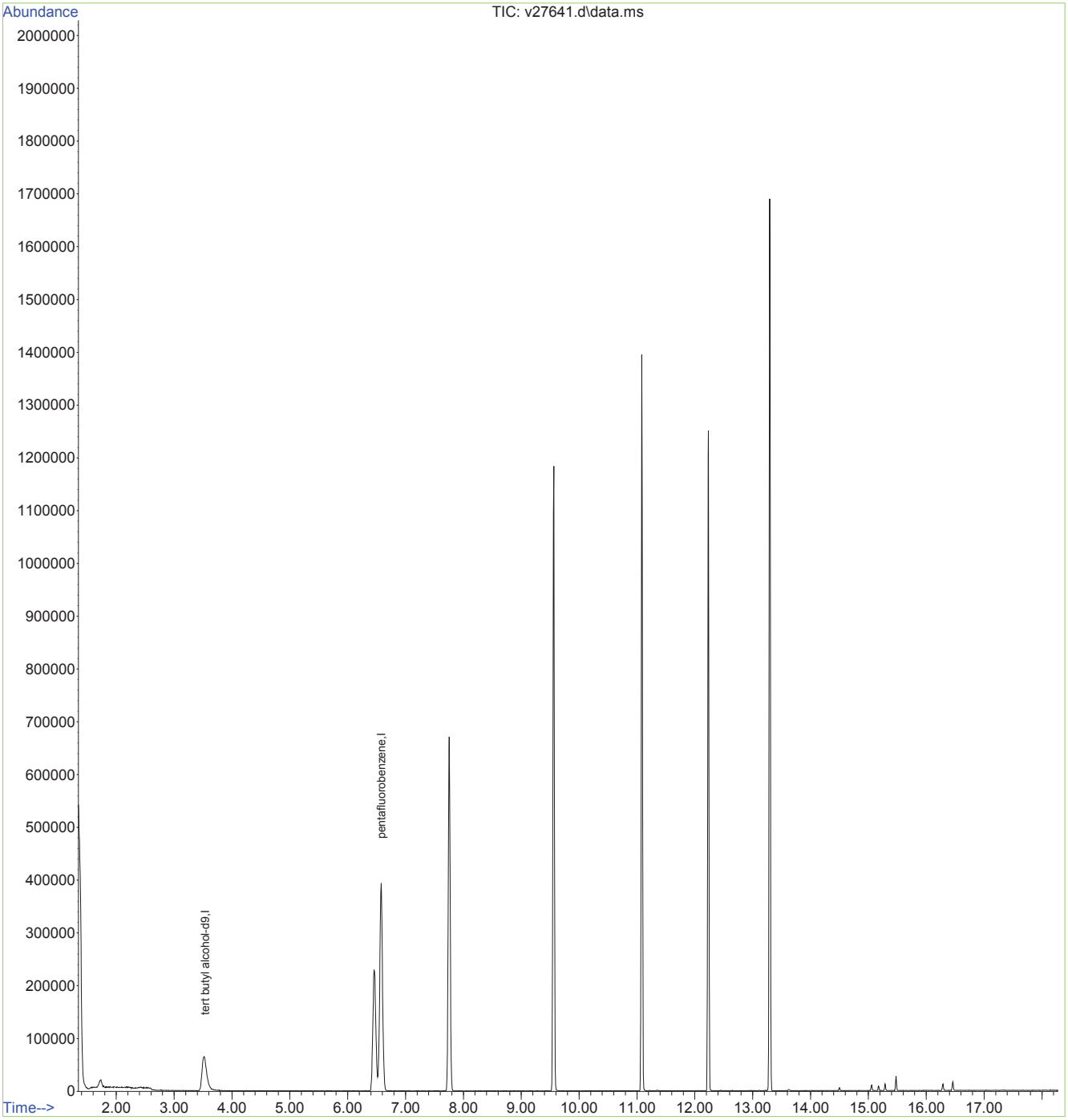
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140205\
Data File : v27641.d
Acq On : 5 Feb 2014 11:09 am
Operator : amym
Sample : mb
Misc : MS31066,MSV1042,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 19 21:15:55 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140205\
Data File : v27653.d
Acq On : 5 Feb 2014 4:25 pm
Operator : amym
Sample : mc28049-3ms
Misc : MS31075,MSV1042,,,,5,5
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 19 21:21:08 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

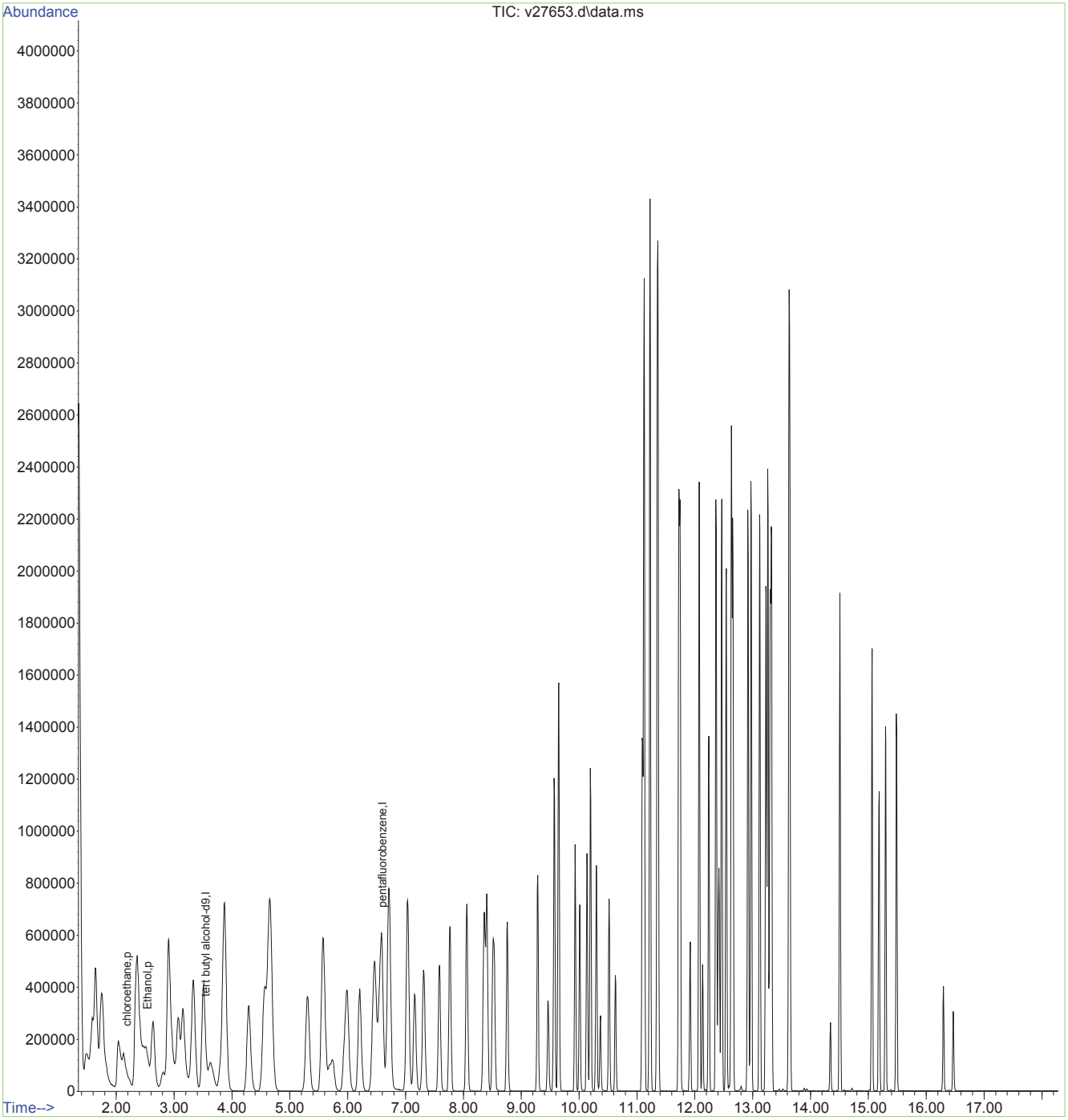
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.546	65	191168	500.00	ug/L	0.02
3) pentafluorobenzene	6.595	168	488825	50.00	ug/L	0.04
Target Compounds						Qvalue
2) Ethanol	2.533	45	220633	7196.54	ug/L	# 1
4) chloroethane	2.179	64	251909	67.18	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140205\
Data File : v27653.d
Acq On : 5 Feb 2014 4:25 pm
Operator : amym
Sample : mc28049-3ms
Misc : MS31075,MSV1042,,,,5,5
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 19 21:21:08 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140205\
Data File : v27654.d
Acq On : 5 Feb 2014 4:51 pm
Operator : amym
Sample : mc28049-3msd
Misc : MS31075,MSV1042,,,,5,5
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Nov 19 21:21:25 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

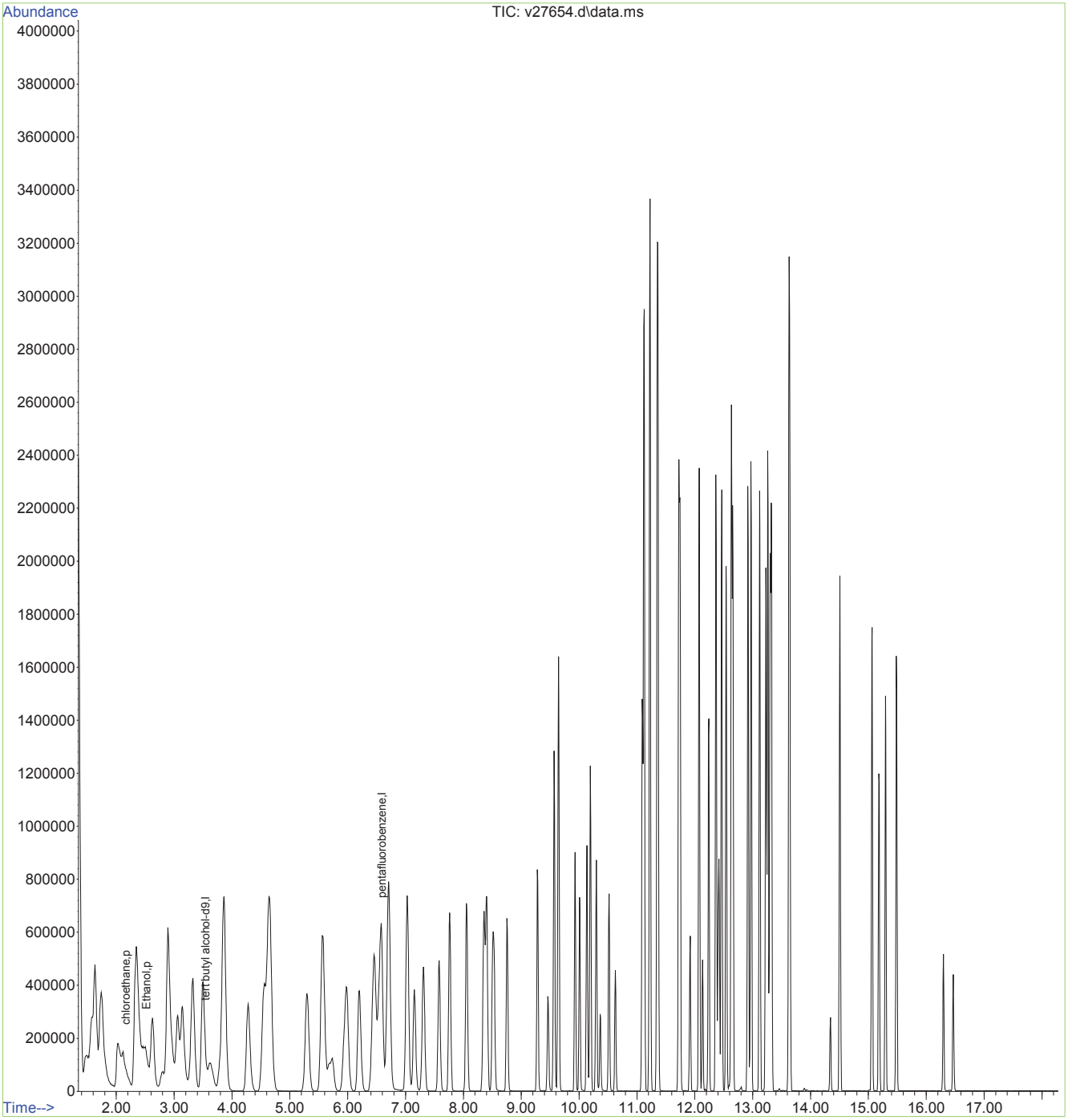
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.539	65	202241	500.00	ug/L	0.02
3) pentafluorobenzene	6.588	168	509603	50.00	ug/L	0.03
Target Compounds						Qvalue
2) Ethanol	2.521	45	211804	6485.94	ug/L	# 1
4) chloroethane	2.166	64	249853	63.87	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140205\
Data File : v27654.d
Acq On : 5 Feb 2014 4:51 pm
Operator : amym
Sample : mc28049-3msd
Misc : MS31075,MSV1042,,,,5,5
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Nov 19 21:21:25 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Internal Sample Tracking Chronicle

Shell Oil

Job No: MC27977

URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC27977-1 Collected: 29-JAN-14 09:50 By: LRKH Received: 30-JAN-14 By: P66-ROX-012914						
MC27977-1	SW846 8011	31-JAN-14 12:32	NK	30-JAN-14	AJ	V8011SL
MC27977-1	SW846 8270D BY SIM	31-JAN-14 16:15	KR	30-JAN-14	TA	B8270SIMSL
MC27977-1	SW846 8270D	31-JAN-14 16:28	KR	30-JAN-14	TA	AB8270SL+
MC27977-1	SW846 8260C	04-FEB-14 16:04	AMY			V8260SL+
MC27977-2 Collected: 29-JAN-14 10:20 By: LRKH Received: 30-JAN-14 By: MW14-ROX-012914-EB						
MC27977-2	SW846 8011	31-JAN-14 14:12	NK	30-JAN-14	AJ	V8011SL
MC27977-2	SW846 8270D BY SIM	31-JAN-14 16:38	KR	30-JAN-14	TA	B8270SIMSL
MC27977-2	SW846 8270D	31-JAN-14 16:52	KR	30-JAN-14	TA	AB8270SL+
MC27977-2	SW846 8260C	04-FEB-14 12:23	AMY			V8260SL+
MC27977-3 Collected: 29-JAN-14 10:55 By: LRKH Received: 30-JAN-14 By: MW14-ROX-012914						
MC27977-3	SW846 8011	31-JAN-14 14:35	NK	30-JAN-14	AJ	V8011SL
MC27977-3	SW846 8270D BY SIM	31-JAN-14 17:00	KR	30-JAN-14	TA	B8270SIMSL
MC27977-3	SW846 8270D	31-JAN-14 17:16	KR	30-JAN-14	TA	AB8270SL+
MC27977-3	SW846 8260C	04-FEB-14 16:31	AMY			V8260SL+
MC27977-4 Collected: 29-JAN-14 13:05 By: LRKH Received: 30-JAN-14 By: P93A-ROX-012914						
MC27977-4	SW846 8011	31-JAN-14 15:21	NK	30-JAN-14	AJ	V8011SL
MC27977-4	SW846 8270D BY SIM	31-JAN-14 17:23	KR	30-JAN-14	TA	B8270SIMSL
MC27977-4	SW846 8270D	31-JAN-14 17:40	KR	30-JAN-14	TA	AB8270SL+
MC27977-4	SW846 8260C	05-FEB-14 13:47	AMY			V8260SL+
MC27977-5 Collected: 29-JAN-14 15:30 By: LRKH Received: 30-JAN-14 By: MW13-ROX-012914						
MC27977-5	SW846 8011	31-JAN-14 15:44	NK	30-JAN-14	AJ	V8011SL
MC27977-5	SW846 8270D BY SIM	31-JAN-14 17:46	KR	30-JAN-14	TA	B8270SIMSL
MC27977-5	SW846 8270D	31-JAN-14 18:04	KR	30-JAN-14	TA	AB8270SL+
MC27977-5	SW846 8260C	04-FEB-14 16:58	AMY			V8260SL+

Internal Sample Tracking Chronicle

Shell Oil

Job No: MC27977

URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC27977-6 Collected: 29-JAN-14 00:00 By: LRKH Received: 30-JAN-14 By: TB-ROX-012914-HCL						
MC27977-6	SW846 8260C	04-FEB-14 11:56	AMY			V8260SL+
MC27977-7 Collected: 29-JAN-14 00:00 By: LRKH Received: 30-JAN-14 By: TB-ROX-012914-ST						
MC27977-7	SW846 8011	31-JAN-14 16:07	NK	30-JAN-14	AJ	V8011SL

SGS Accutest Internal Chain of Custody

Job Number: MC27977
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL
Received: 01/30/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC27977-1.1	Walk In Ref #22	Thomas Abruzzise	01/30/14 14:22	Retrieve from Storage
MC27977-1.1	Scott Parsick		03/25/14 11:35	Disposed
MC27977-1.2	Walk In Ref #22	Thomas Abruzzise	01/30/14 14:22	Retrieve from Storage
MC27977-1.2	Scott Parsick		03/25/14 11:35	Disposed
MC27977-1.5	Walk In Ref #22	Thomas Abruzzise	01/30/14 14:22	Retrieve from Storage
MC27977-1.5	Scott Parsick		03/25/14 11:35	Disposed
MC27977-1.7	VOC Ref #3	Amy Min Yang	02/04/14 11:19	Retrieve from Storage
MC27977-1.7	Amy Min Yang	GCMSV	02/04/14 11:19	Load on Instrument
MC27977-1.7	GCMSV	Amy Min Yang	02/05/14 10:17	Unload from Instrument
MC27977-1.7	Amy Min Yang	VOC Ref #3	02/05/14 10:17	Return to Storage
MC27977-1.7	Scott Parsick		03/25/14 11:35	Disposed
MC27977-1.8	VOC Ref #3	Amy Min Yang	02/04/14 11:19	Retrieve from Storage
MC27977-1.8	Amy Min Yang	GCMSV	02/04/14 11:19	Load on Instrument
MC27977-1.8	GCMSV	Amy Min Yang	02/05/14 10:17	Unload from Instrument
MC27977-1.8	Amy Min Yang	VOC Ref #3	02/05/14 10:17	Return to Storage
MC27977-1.8	Scott Parsick		03/25/14 11:35	Disposed
MC27977-1.9	VOC Ref #3	Amy Min Yang	02/04/14 11:19	Retrieve from Storage
MC27977-1.9	Amy Min Yang	GCMSV	02/04/14 11:19	Load on Instrument
MC27977-1.9	GCMSV	Amy Min Yang	02/05/14 10:17	Unload from Instrument
MC27977-1.9	Amy Min Yang	VOC Ref #3	02/05/14 10:17	Return to Storage
MC27977-1.9	Scott Parsick		03/25/14 11:35	Disposed
MC27977-1.10	VOC Ref #3	Amy Min Yang	02/04/14 11:19	Retrieve from Storage
MC27977-1.10	Amy Min Yang	GCMSV	02/04/14 11:19	Load on Instrument
MC27977-1.10	GCMSV	Amy Min Yang	02/05/14 10:17	Unload from Instrument
MC27977-1.10	Amy Min Yang	VOC Ref #3	02/05/14 10:17	Return to Storage
MC27977-1.10	Scott Parsick		03/25/14 11:35	Disposed
MC27977-1.11	VOC Ref #3	Amy Min Yang	01/31/14 14:25	Retrieve from Storage
MC27977-1.11	Amy Min Yang	GCMSP	01/31/14 14:25	Load on Instrument
MC27977-1.11	GCMSP	Krysten Dufort	02/03/14 09:59	Unload from Instrument
MC27977-1.11	Krysten Dufort	VOC Ref #3	02/03/14 10:00	Return to Storage
MC27977-1.11	Scott Parsick		03/25/14 11:35	Disposed
MC27977-1.14	VOC Ref #3	Marc Tahtamoni	01/30/14 14:15	Retrieve from Storage
MC27977-1.14	Marc Tahtamoni		02/27/14 22:07	Depleted
MC27977-1.16	VOC Ref #3	Marc Tahtamoni	01/30/14 14:15	Retrieve from Storage
MC27977-1.16	Marc Tahtamoni		02/27/14 22:07	Depleted

SGS Accutest Internal Chain of Custody

Job Number: MC27977
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL
Received: 01/30/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC27977-1.17	VOC Ref #3	Marc Tahtamoni	01/30/14 14:15	Retrieve from Storage
MC27977-1.17	Marc Tahtamoni		02/27/14 22:07	Depleted
MC27977-2.1	Walk In Ref #22	Thomas Abruzzise	01/30/14 14:22	Retrieve from Storage
MC27977-2.1	Scott Parsick		03/25/14 11:35	Disposed
MC27977-2.3	VOC Ref #3	Amy Min Yang	02/04/14 11:19	Retrieve from Storage
MC27977-2.3	Amy Min Yang	GCMSV	02/04/14 11:19	Load on Instrument
MC27977-2.3	GCMSV	Amy Min Yang	02/05/14 10:17	Unload from Instrument
MC27977-2.3	Amy Min Yang	VOC Ref #3	02/05/14 10:17	Return to Storage
MC27977-2.3	Scott Parsick		03/25/14 11:35	Disposed
MC27977-2.5	VOC Ref #3	Marc Tahtamoni	01/30/14 14:15	Retrieve from Storage
MC27977-2.5	Marc Tahtamoni		02/27/14 22:07	Depleted
MC27977-3.2	Walk In Ref #22	Thomas Abruzzise	01/30/14 14:22	Retrieve from Storage
MC27977-3.2	Scott Parsick		03/25/14 11:35	Disposed
MC27977-3.3	VOC Ref #3	Amy Min Yang	02/04/14 11:19	Retrieve from Storage
MC27977-3.3	Amy Min Yang	GCMSV	02/04/14 11:19	Load on Instrument
MC27977-3.3	GCMSV	Amy Min Yang	02/05/14 10:17	Unload from Instrument
MC27977-3.3	Amy Min Yang	VOC Ref #3	02/05/14 10:17	Return to Storage
MC27977-3.3	Scott Parsick		03/25/14 11:35	Disposed
MC27977-3.4	VOC Ref #3	Amy Min Yang	01/31/14 14:25	Retrieve from Storage
MC27977-3.4	Amy Min Yang	GCMSP	01/31/14 14:25	Load on Instrument
MC27977-3.4	GCMSP	Krysten Dufort	02/03/14 09:59	Unload from Instrument
MC27977-3.4	Krysten Dufort	VOC Ref #3	02/03/14 10:00	Return to Storage
MC27977-3.4	Scott Parsick		03/25/14 11:35	Disposed
MC27977-3.5	VOC Ref #3	Marc Tahtamoni	01/30/14 14:15	Retrieve from Storage
MC27977-3.5	Marc Tahtamoni		02/27/14 22:07	Depleted
MC27977-4.2	Walk In Ref #22	Thomas Abruzzise	01/30/14 14:22	Retrieve from Storage
MC27977-4.2	Scott Parsick		03/25/14 11:35	Disposed
MC27977-4.3	VOC Ref #3	Amy Min Yang	01/31/14 14:25	Retrieve from Storage
MC27977-4.3	Amy Min Yang	GCMSP	01/31/14 14:25	Load on Instrument
MC27977-4.3	GCMSP	Krysten Dufort	02/03/14 09:59	Unload from Instrument
MC27977-4.3	Krysten Dufort	VOC Ref #3	02/03/14 10:00	Return to Storage
MC27977-4.3	Scott Parsick		03/25/14 11:35	Disposed
MC27977-4.4	VOC Ref #3	Amy Min Yang	02/04/14 11:19	Retrieve from Storage

SGS Accutest Internal Chain of Custody

Job Number: MC27977
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL
Received: 01/30/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC27977-4.4	Amy Min Yang	GCMSV	02/04/14 11:19	Load on Instrument
MC27977-4.4	GCMSV	Amy Min Yang	02/05/14 10:17	Unload from Instrument
MC27977-4.4	Amy Min Yang	VOC Ref #3	02/05/14 10:17	Return to Storage
MC27977-4.4	VOC Ref #3	Amy Min Yang	02/05/14 10:36	Retrieve from Storage
MC27977-4.4	Amy Min Yang	GCMSV	02/05/14 10:37	Load on Instrument
MC27977-4.4	GCMSV	Amy Min Yang	02/07/14 17:08	Unload from Instrument
MC27977-4.4	Amy Min Yang	VOC Ref #3	02/07/14 17:08	Return to Storage
MC27977-4.4	Scott Parsick		03/25/14 11:35	Disposed
MC27977-4.6	VOC Ref #3	Marc Tahtamoni	01/30/14 14:15	Retrieve from Storage
MC27977-4.6	Marc Tahtamoni		02/27/14 22:07	Depleted
MC27977-5.2	Walk In Ref #22	Thomas Abruzzise	01/30/14 14:22	Retrieve from Storage
MC27977-5.2	Scott Parsick		03/25/14 11:35	Disposed
MC27977-5.3	VOC Ref #3	Amy Min Yang	01/31/14 14:25	Retrieve from Storage
MC27977-5.3	Amy Min Yang	GCMSP	01/31/14 14:25	Load on Instrument
MC27977-5.3	GCMSP	Krysten Dufort	02/03/14 09:59	Unload from Instrument
MC27977-5.3	Krysten Dufort	VOC Ref #3	02/03/14 10:00	Return to Storage
MC27977-5.3	Scott Parsick		03/25/14 11:35	Disposed
MC27977-5.4	VOC Ref #3	Amy Min Yang	02/04/14 11:19	Retrieve from Storage
MC27977-5.4	Amy Min Yang	GCMSV	02/04/14 11:19	Load on Instrument
MC27977-5.4	GCMSV	Amy Min Yang	02/05/14 10:17	Unload from Instrument
MC27977-5.4	Amy Min Yang	VOC Ref #3	02/05/14 10:17	Return to Storage
MC27977-5.4	Scott Parsick		03/25/14 11:35	Disposed
MC27977-5.6	VOC Ref #3	Marc Tahtamoni	01/30/14 14:15	Retrieve from Storage
MC27977-5.6	Marc Tahtamoni		02/27/14 22:07	Depleted
MC27977-6.1	VOC Ref #3	Amy Min Yang	02/04/14 11:19	Retrieve from Storage
MC27977-6.1	Amy Min Yang	GCMSV	02/04/14 11:19	Load on Instrument
MC27977-6.1	GCMSV	Amy Min Yang	02/05/14 10:17	Unload from Instrument
MC27977-6.1	Amy Min Yang	VOC Ref #3	02/05/14 10:17	Return to Storage
MC27977-6.1	Scott Parsick		03/25/14 11:35	Disposed
MC27977-7.2	VOC Ref #3	Marc Tahtamoni	01/30/14 14:15	Retrieve from Storage
MC27977-7.2	Marc Tahtamoni		02/27/14 22:07	Depleted

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC27977
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1041-MB	V27610.D	1	02/04/14	AMY	n/a	n/a	MSV1041

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27977-1, MC27977-2, MC27977-3, MC27977-5, MC27977-6

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	

Method Blank Summary

Job Number: MC27977
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1041-MB	V27610.D	1	02/04/14	AMY	n/a	n/a	MSV1041

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27977-1, MC27977-2, MC27977-3, MC27977-5, MC27977-6

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
123-91-1	1,4-Dioxane	ND	25	16	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.70	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

Method Blank Summary

Job Number: MC27977
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1041-MB	V27610.D	1	02/04/14	AMY	n/a	n/a	MSV1041

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27977-1, MC27977-2, MC27977-3, MC27977-5, MC27977-6

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	103%	70-130%
2037-26-5	Toluene-D8	98%	70-130%
460-00-4	4-Bromofluorobenzene	103%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: MC27977
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1042-MB	V27641.D	1	02/05/14	AMY	n/a	n/a	MSV1042

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27977-4

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	

Method Blank Summary

Job Number: MC27977
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1042-MB	V27641.D	1	02/05/14	AMY	n/a	n/a	MSV1042

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27977-4

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
123-91-1	1,4-Dioxane	ND	25	16	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.70	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

Method Blank Summary

Job Number: MC27977
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1042-MB	V27641.D	1	02/05/14	AMY	n/a	n/a	MSV1042

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27977-4

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	104%	70-130%
2037-26-5	Toluene-D8	99%	70-130%
460-00-4	4-Bromofluorobenzene	103%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC27977
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1041-BS	V27607.D	1	02/04/14	AMY	n/a	n/a	MSV1041
MSV1041-BSD	V27608.D	1	02/04/14	AMY	n/a	n/a	MSV1041

The QC reported here applies to the following samples: Method: SW846 8260C

MC27977-1, MC27977-2, MC27977-3, MC27977-5, MC27977-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50	41.9	84	42.3	85	1	70-130/25
107-02-8	Acrolein	50	59.3	119	56.6	113	5	70-130/25
107-13-1	Acrylonitrile	100	89.4	89	85.9	86	4	70-130/25
71-43-2	Benzene	50	55.4	111	54.2	108	2	70-130/25
108-86-1	Bromobenzene	50	50.4	101	50.7	101	1	70-130/25
74-97-5	Bromochloromethane	50	55.5	111	54.3	109	2	70-130/25
75-27-4	Bromodichloromethane	50	56.4	113	55.6	111	1	70-130/25
75-25-2	Bromoform	50	41.6	83	40.7	81	2	70-130/25
74-83-9	Bromomethane	50	50.8	102	50.9	102	0	70-130/25
78-93-3	2-Butanone (MEK)	50	44.1	88	43.1	86	2	70-130/25
104-51-8	n-Butylbenzene	50	54.2	108	53.3	107	2	70-130/25
135-98-8	sec-Butylbenzene	50	54.8	110	54.5	109	1	70-130/25
98-06-6	tert-Butylbenzene	50	53.4	107	52.4	105	2	70-130/25
75-15-0	Carbon disulfide	50	50.5	101	48.1	96	5	70-130/25
56-23-5	Carbon tetrachloride	50	55.0	110	53.7	107	2	70-130/25
108-90-7	Chlorobenzene	50	44.8	90	44.5	89	1	70-130/25
75-00-3	Chloroethane	50	64.5	129	63.5	127	2	70-130/25
110-75-8	2-Chloroethyl vinyl ether	50	252	504* [a]	111	222* [a]	78* [a]	70-130/25
67-66-3	Chloroform	50	52.6	105	51.6	103	2	70-130/25
74-87-3	Chloromethane	50	49.1	98	49.8	100	1	70-130/25
95-49-8	o-Chlorotoluene	50	49.9	100	49.6	99	1	70-130/25
106-43-4	p-Chlorotoluene	50	50.8	102	50.4	101	1	70-130/25
124-48-1	Dibromochloromethane	50	53.7	107	53.0	106	1	70-130/25
95-50-1	1,2-Dichlorobenzene	50	47.3	95	46.1	92	3	70-130/25
541-73-1	1,3-Dichlorobenzene	50	47.9	96	47.5	95	1	70-130/25
106-46-7	1,4-Dichlorobenzene	50	47.6	95	46.9	94	1	70-130/25
75-71-8	Dichlorodifluoromethane	50	54.8	110	55.8	112	2	70-130/25
75-34-3	1,1-Dichloroethane	50	55.0	110	54.3	109	1	70-130/25
107-06-2	1,2-Dichloroethane	50	51.3	103	50.7	101	1	70-130/25
75-35-4	1,1-Dichloroethene	50	54.6	109	53.8	108	1	70-130/25
156-59-2	cis-1,2-Dichloroethene	50	56.3	113	56.0	112	1	70-130/25
156-60-5	trans-1,2-Dichloroethene	50	55.4	111	54.4	109	2	70-130/25
78-87-5	1,2-Dichloropropane	50	52.8	106	52.2	104	1	70-130/25
142-28-9	1,3-Dichloropropane	50	49.4	99	48.8	98	1	70-130/25
594-20-7	2,2-Dichloropropane	50	66.2	132* [b]	64.4	129	3	70-130/25
563-58-6	1,1-Dichloropropene	50	53.2	106	52.7	105	1	70-130/25

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC27977
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1041-BS	V27607.D	1	02/04/14	AMY	n/a	n/a	MSV1041
MSV1041-BSD	V27608.D	1	02/04/14	AMY	n/a	n/a	MSV1041

The QC reported here applies to the following samples: Method: SW846 8260C

MC27977-1, MC27977-2, MC27977-3, MC27977-5, MC27977-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	50	50.7	101	49.6	99	2	70-130/25
10061-02-6	trans-1,3-Dichloropropene	50	51.7	103	50.7	101	2	70-130/25
123-91-1	1,4-Dioxane	250	229	92	231	92	1	70-130/25
97-63-2	Ethyl methacrylate	50	50.2	100	49.4	99	2	77-137/25
100-41-4	Ethylbenzene	50	51.6	103	51.2	102	1	70-130/25
87-68-3	Hexachlorobutadiene	50	52.6	105	54.3	109	3	70-130/25
591-78-6	2-Hexanone	50	40.3	81	39.0	78	3	70-130/25
98-82-8	Isopropylbenzene	50	56.2	112	55.4	111	1	70-130/25
99-87-6	p-Isopropyltoluene	50	53.2	106	52.7	105	1	70-130/25
1634-04-4	Methyl Tert Butyl Ether	50	61.9	124	58.9	118	5	70-130/25
108-10-1	4-Methyl-2-pentanone (MIBK)	50	56.4	113	53.5	107	5	70-130/25
74-95-3	Methylene bromide	50	52.5	105	51.3	103	2	70-130/25
75-09-2	Methylene chloride	50	51.9	104	51.3	103	1	70-130/25
91-20-3	Naphthalene	50	53.4	107	52.5	105	2	70-130/25
103-65-1	n-Propylbenzene	50	53.3	107	52.6	105	1	70-130/25
100-42-5	Styrene	50	47.9	96	47.2	94	1	70-130/25
630-20-6	1,1,1,2-Tetrachloroethane	50	50.6	101	49.9	100	1	70-130/25
79-34-5	1,1,2,2-Tetrachloroethane	50	49.9	100	48.6	97	3	70-130/25
127-18-4	Tetrachloroethene	50	51.2	102	50.5	101	1	70-130/25
108-88-3	Toluene	50	58.0	116	56.7	113	2	70-130/25
87-61-6	1,2,3-Trichlorobenzene	50	58.2	116	57.2	114	2	70-130/25
120-82-1	1,2,4-Trichlorobenzene	50	58.7	117	58.1	116	1	70-130/25
71-55-6	1,1,1-Trichloroethane	50	58.5	117	57.1	114	2	70-130/25
79-00-5	1,1,2-Trichloroethane	50	53.5	107	52.9	106	1	70-130/25
79-01-6	Trichloroethene	50	55.3	111	53.7	107	3	70-130/25
75-69-4	Trichlorofluoromethane	50	57.3	115	56.2	112	2	70-130/25
96-18-4	1,2,3-Trichloropropane	50	48.6	97	47.8	96	2	70-130/25
95-63-6	1,2,4-Trimethylbenzene	50	54.6	109	53.6	107	2	70-130/25
108-67-8	1,3,5-Trimethylbenzene	50	55.8	112	54.4	109	3	70-130/25
108-05-4	Vinyl Acetate	50	54.7	109	53.8	108	2	70-130/25
75-01-4	Vinyl chloride	50	49.5	99	49.4	99	0	70-130/25
	m,p-Xylene	100	87.0	87	85.9	86	1	70-130/25
95-47-6	o-Xylene	50	44.2	88	43.8	88	1	70-130/25
1330-20-7	Xylene (total)	150	131	87	130	87	1	70-130/25

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC27977
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1041-BS	V27607.D	1	02/04/14	AMY	n/a	n/a	MSV1041
MSV1041-BSD	V27608.D	1	02/04/14	AMY	n/a	n/a	MSV1041

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27977-1, MC27977-2, MC27977-3, MC27977-5, MC27977-6

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	96%	97%	70-130%
2037-26-5	Toluene-D8	100%	100%	70-130%
460-00-4	4-Bromofluorobenzene	98%	99%	70-130%

(a) Outside control limits. Associated samples are non-detect for this compound.
(b) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC27977
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1042-BS	V27638.D	1	02/05/14	AMY	n/a	n/a	MSV1042
MSV1042-BSD	V27639.D	1	02/05/14	AMY	n/a	n/a	MSV1042

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27977-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50	45.5	91	42.0	84	8	70-130/25
107-02-8	Acrolein	50	61.5	123	61.5	123	0	70-130/25
107-13-1	Acrylonitrile	100	88.2	88	89.9	90	2	70-130/25
71-43-2	Benzene	50	54.1	108	53.9	108	0	70-130/25
108-86-1	Bromobenzene	50	49.3	99	49.6	99	1	70-130/25
74-97-5	Bromochloromethane	50	55.1	110	54.6	109	1	70-130/25
75-27-4	Bromodichloromethane	50	56.1	112	55.5	111	1	70-130/25
75-25-2	Bromoform	50	42.6	85	42.0	84	1	70-130/25
74-83-9	Bromomethane	50	50.5	101	50.2	100	1	70-130/25
78-93-3	2-Butanone (MEK)	50	45.9	92	44.5	89	3	70-130/25
104-51-8	n-Butylbenzene	50	53.1	106	52.4	105	1	70-130/25
135-98-8	sec-Butylbenzene	50	54.2	108	54.1	108	0	70-130/25
98-06-6	tert-Butylbenzene	50	52.6	105	51.6	103	2	70-130/25
75-15-0	Carbon disulfide	50	47.8	96	48.5	97	1	70-130/25
56-23-5	Carbon tetrachloride	50	55.9	112	54.7	109	2	70-130/25
108-90-7	Chlorobenzene	50	44.3	89	44.0	88	1	70-130/25
75-00-3	Chloroethane	50	63.4	127	62.6	125	1	70-130/25
110-75-8	2-Chloroethyl vinyl ether	50	144	288* [a]	213	426* [a]	39* [a]	70-130/25
67-66-3	Chloroform	50	51.8	104	52.1	104	1	70-130/25
74-87-3	Chloromethane	50	55.2	110	50.5	101	9	70-130/25
95-49-8	o-Chlorotoluene	50	48.6	97	48.4	97	0	70-130/25
106-43-4	p-Chlorotoluene	50	49.7	99	49.3	99	1	70-130/25
124-48-1	Dibromochloromethane	50	53.6	107	53.4	107	0	70-130/25
95-50-1	1,2-Dichlorobenzene	50	45.9	92	45.9	92	0	70-130/25
541-73-1	1,3-Dichlorobenzene	50	46.6	93	46.1	92	1	70-130/25
106-46-7	1,4-Dichlorobenzene	50	46.3	93	45.9	92	1	70-130/25
75-71-8	Dichlorodifluoromethane	50	54.3	109	54.9	110	1	70-130/25
75-34-3	1,1-Dichloroethane	50	54.3	109	54.2	108	0	70-130/25
107-06-2	1,2-Dichloroethane	50	51.5	103	51.1	102	1	70-130/25
75-35-4	1,1-Dichloroethene	50	54.3	109	54.8	110	1	70-130/25
156-59-2	cis-1,2-Dichloroethene	50	55.3	111	55.8	112	1	70-130/25
156-60-5	trans-1,2-Dichloroethene	50	54.0	108	54.1	108	0	70-130/25
78-87-5	1,2-Dichloropropane	50	52.0	104	51.8	104	0	70-130/25
142-28-9	1,3-Dichloropropane	50	48.7	97	48.4	97	1	70-130/25
594-20-7	2,2-Dichloropropane	50	65.9	132* [b]	63.7	127	3	70-130/25
563-58-6	1,1-Dichloropropene	50	53.4	107	52.5	105	2	70-130/25

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC27977
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1042-BS	V27638.D	1	02/05/14	AMY	n/a	n/a	MSV1042
MSV1042-BSD	V27639.D	1	02/05/14	AMY	n/a	n/a	MSV1042

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27977-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	50	50.0	100	49.7	99	1	70-130/25
10061-02-6	trans-1,3-Dichloropropene	50	52.0	104	51.3	103	1	70-130/25
123-91-1	1,4-Dioxane	250	234	94	234	94	0	70-130/25
97-63-2	Ethyl methacrylate	50	49.5	99	49.1	98	1	77-137/25
100-41-4	Ethylbenzene	50	50.8	102	50.1	100	1	70-130/25
87-68-3	Hexachlorobutadiene	50	54.3	109	53.5	107	1	70-130/25
591-78-6	2-Hexanone	50	41.6	83	39.5	79	5	70-130/25
98-82-8	Isopropylbenzene	50	55.0	110	55.0	110	0	70-130/25
99-87-6	p-Isopropyltoluene	50	52.8	106	51.8	104	2	70-130/25
1634-04-4	Methyl Tert Butyl Ether	50	58.6	117	58.9	118	1	70-130/25
108-10-1	4-Methyl-2-pentanone (MIBK)	50	55.4	111	55.1	110	1	70-130/25
74-95-3	Methylene bromide	50	52.5	105	51.9	104	1	70-130/25
75-09-2	Methylene chloride	50	51.0	102	51.7	103	1	70-130/25
91-20-3	Naphthalene	50	50.7	101	52.3	105	3	70-130/25
103-65-1	n-Propylbenzene	50	52.7	105	52.0	104	1	70-130/25
100-42-5	Styrene	50	46.2	92	46.5	93	1	70-130/25
630-20-6	1,1,1,2-Tetrachloroethane	50	50.0	100	49.4	99	1	70-130/25
79-34-5	1,1,2,2-Tetrachloroethane	50	48.7	97	48.6	97	0	70-130/25
127-18-4	Tetrachloroethene	50	50.5	101	49.5	99	2	70-130/25
108-88-3	Toluene	50	57.2	114	56.3	113	2	70-130/25
87-61-6	1,2,3-Trichlorobenzene	50	55.3	111	56.9	114	3	70-130/25
120-82-1	1,2,4-Trichlorobenzene	50	56.3	113	57.4	115	2	70-130/25
71-55-6	1,1,1-Trichloroethane	50	58.4	117	57.7	115	1	70-130/25
79-00-5	1,1,2-Trichloroethane	50	52.9	106	52.6	105	1	70-130/25
79-01-6	Trichloroethene	50	54.6	109	54.0	108	1	70-130/25
75-69-4	Trichlorofluoromethane	50	58.0	116	56.7	113	2	70-130/25
96-18-4	1,2,3-Trichloropropane	50	50.7	101	50.5	101	0	70-130/25
95-63-6	1,2,4-Trimethylbenzene	50	53.5	107	53.0	106	1	70-130/25
108-67-8	1,3,5-Trimethylbenzene	50	54.1	108	53.5	107	1	70-130/25
108-05-4	Vinyl Acetate	50	54.1	108	54.5	109	1	70-130/25
75-01-4	Vinyl chloride	50	48.5	97	49.0	98	1	70-130/25
	m,p-Xylene	100	86.1	86	84.4	84	2	70-130/25
95-47-6	o-Xylene	50	43.2	86	43.1	86	0	70-130/25
1330-20-7	Xylene (total)	150	129	86	127	85	2	70-130/25

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC27977
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1042-BS	V27638.D	1	02/05/14	AMY	n/a	n/a	MSV1042
MSV1042-BSD	V27639.D	1	02/05/14	AMY	n/a	n/a	MSV1042

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27977-4

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	96%	98%	70-130%
2037-26-5	Toluene-D8	100%	99%	70-130%
460-00-4	4-Bromofluorobenzene	98%	100%	70-130%

(a) Outside control limits. Associated samples are non-detect for this compound.
(b) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27977
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC27977-1MS	V27623.D	1	02/04/14	AMY	n/a	n/a	MSV1041
MC27977-1MSD	V27624.D	1	02/04/14	AMY	n/a	n/a	MSV1041
MC27977-1	V27616.D	1	02/04/14	AMY	n/a	n/a	MSV1041

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27977-1, MC27977-2, MC27977-3, MC27977-5, MC27977-6

CAS No.	Compound	MC27977-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		50	46.2	92	50	46.0	92	0	70-130/30
107-02-8	Acrolein	ND		50	59.3	119	50	54.9	110	8	70-130/30
107-13-1	Acrylonitrile	ND		100	135	135* [a]	100	132	132* [a]	2	70-130/30
71-43-2	Benzene	8.0		50	60.1	104	50	59.9	104	0	70-130/30
108-86-1	Bromobenzene	ND		50	47.8	96	50	48.4	97	1	70-130/30
74-97-5	Bromochloromethane	ND		50	53.8	108	50	54.1	108	1	70-130/30
75-27-4	Bromodichloromethane	ND		50	55.2	110	50	54.6	109	1	70-130/30
75-25-2	Bromoform	ND		50	38.1	76	50	39.2	78	3	70-130/30
74-83-9	Bromomethane	ND		50	51.4	103	50	50.7	101	1	70-130/30
78-93-3	2-Butanone (MEK)	ND		50	37.1	74	50	38.7	77	4	70-130/30
104-51-8	n-Butylbenzene	16.0		50	68.7	105	50	68.8	106	0	70-130/30
135-98-8	sec-Butylbenzene	20.5		50	71.6	102	50	72.2	103	1	70-130/30
98-06-6	tert-Butylbenzene	5.3		50	56.1	102	50	56.4	102	1	70-130/30
75-15-0	Carbon disulfide	ND		50	50.8	102	50	49.4	99	3	70-130/30
56-23-5	Carbon tetrachloride	ND		50	53.6	107	50	52.3	105	2	70-130/30
108-90-7	Chlorobenzene	ND		50	43.3	87	50	43.8	88	1	70-130/30
75-00-3	Chloroethane	ND		50	66.7	133* [a]	50	66.0	132* [a]	1	70-130/30
110-75-8	2-Chloroethyl vinyl ether	ND		50	8.7	17* [a]	50	7.9	16* [a]	10	70-130/30
67-66-3	Chloroform	ND		50	51.1	102	50	51.1	102	0	70-130/30
74-87-3	Chloromethane	ND		50	63.1	126	50	61.5	123	3	70-130/30
95-49-8	o-Chlorotoluene	ND		50	48.4	97	50	48.4	97	0	70-130/30
106-43-4	p-Chlorotoluene	ND		50	48.9	98	50	49.0	98	0	70-130/30
124-48-1	Dibromochloromethane	ND		50	50.4	101	50	51.1	102	1	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		50	46.0	92	50	47.1	94	2	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		50	46.1	92	50	46.4	93	1	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		50	45.6	91	50	46.0	92	1	70-130/30
75-71-8	Dichlorodifluoromethane	ND		50	60.1	120	50	56.7	113	6	70-130/30
75-34-3	1,1-Dichloroethane	ND		50	54.4	109	50	54.5	109	0	70-130/30
107-06-2	1,2-Dichloroethane	ND		50	48.1	96	50	48.0	96	0	70-130/30
75-35-4	1,1-Dichloroethene	ND		50	58.0	116	50	56.9	114	2	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		50	55.7	111	50	56.1	112	1	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		50	55.9	112	50	55.7	111	0	70-130/30
78-87-5	1,2-Dichloropropane	ND		50	59.4	119	50	59.1	118	1	70-130/30
142-28-9	1,3-Dichloropropane	ND		50	46.5	93	50	47.2	94	1	70-130/30
594-20-7	2,2-Dichloropropane	ND		50	58.1	116	50	59.0	118	2	70-130/30
563-58-6	1,1-Dichloropropene	ND		50	52.4	105	50	51.6	103	2	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27977
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC27977-1MS	V27623.D	1	02/04/14	AMY	n/a	n/a	MSV1041
MC27977-1MSD	V27624.D	1	02/04/14	AMY	n/a	n/a	MSV1041
MC27977-1	V27616.D	1	02/04/14	AMY	n/a	n/a	MSV1041

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27977-1, MC27977-2, MC27977-3, MC27977-5, MC27977-6

CAS No.	Compound	MC27977-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		50	48.2	96	50	48.5	97	1	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		50	49.7	99	50	50.0	100	1	70-130/30
123-91-1	1,4-Dioxane	ND		250	231	92	250	230	92	0	70-130/30
97-63-2	Ethyl methacrylate	ND		50	56.7	113	50	57.1	114	1	72-139/30
100-41-4	Ethylbenzene	1.3		50	51.0	99	50	51.1	100	0	70-130/30
87-68-3	Hexachlorobutadiene	ND		50	58.3	117	50	60.3	121	3	70-130/30
591-78-6	2-Hexanone	ND		50	44.2	88	50	43.1	86	3	70-130/30
98-82-8	Isopropylbenzene	131		50	163	64* [b]	50	163	64* [b]	0	70-130/30
99-87-6	p-Isopropyltoluene	ND		50	51.8	104	50	51.8	104	0	70-130/30
1634-04-4	Methyl Tert Butyl Ether	ND		50	111	222* [a]	50	110	220* [a]	1	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		50	60.7	121	50	62.0	124	2	70-130/30
74-95-3	Methylene bromide	ND		50	52.3	105	50	51.9	104	1	70-130/30
75-09-2	Methylene chloride	ND		50	53.6	107	50	53.9	108	1	70-130/30
91-20-3	Naphthalene	ND		50	57.0	114	50	65.2	130	13	70-130/30
103-65-1	n-Propylbenzene	157		50	183	52* [b]	50	183	52* [b]	0	70-130/30
100-42-5	Styrene	ND		50	45.6	91	50	46.1	92	1	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		50	47.9	96	50	48.8	98	2	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	47.6	95	50	49.1	98	3	70-130/30
127-18-4	Tetrachloroethene	ND		50	50.0	100	50	49.5	99	1	70-130/30
108-88-3	Toluene	1.7		50	58.6	114	50	58.4	113	0	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		50	55.6	111	50	62.2	124	11	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		50	60.0	120	50	64.0	128	6	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		50	56.0	112	50	55.7	111	1	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		50	53.7	107	50	54.1	108	1	70-130/30
79-01-6	Trichloroethene	ND		50	54.1	108	50	53.9	108	0	70-130/30
75-69-4	Trichlorofluoromethane	ND		50	60.7	121	50	56.3	113	8	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		50	49.0	98	50	50.3	101	3	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		50	52.6	105	50	52.7	105	0	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		50	53.6	107	50	53.8	108	0	70-130/30
108-05-4	Vinyl Acetate	ND		50	92.0	184* [a]	50	93.3	187* [a]	1	70-130/30
75-01-4	Vinyl chloride	ND		50	52.5	105	50	51.6	103	2	70-130/30
	m,p-Xylene	ND		100	84.5	85	100	84.4	84	0	70-130/30
95-47-6	o-Xylene	4.5		50	43.5	78	50	43.6	78	0	70-130/30
1330-20-7	Xylene (total)	4.5		150	128	82	150	128	82	0	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27977
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC27977-1MS	V27623.D	1	02/04/14	AMY	n/a	n/a	MSV1041
MC27977-1MSD	V27624.D	1	02/04/14	AMY	n/a	n/a	MSV1041
MC27977-1	V27616.D	1	02/04/14	AMY	n/a	n/a	MSV1041

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27977-1, MC27977-2, MC27977-3, MC27977-5, MC27977-6

CAS No.	Surrogate Recoveries	MS	MSD	MC27977-1	Limits
1868-53-7	Dibromofluoromethane	96%	97%	95%	70-130%
2037-26-5	Toluene-D8	104%	103%	106%	70-130%
460-00-4	4-Bromofluorobenzene	97%	98%	104%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.
(b) Outside control limits due to high level in sample relative to spike amount.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27977
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC28049-3MS	V27653.D	5	02/05/14	AMY	n/a	n/a	MSV1042
MC28049-3MSD	V27654.D	5	02/05/14	AMY	n/a	n/a	MSV1042
MC28049-3	V27648.D	1	02/05/14	AMY	n/a	n/a	MSV1042

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27977-4

CAS No.	Compound	MC28049-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		250	185	74	250	185	74	0	70-130/30
107-02-8	Acrolein	ND		250	262	105	250	260	104	1	70-130/30
107-13-1	Acrylonitrile	ND		500	491	98	500	478	96	3	70-130/30
71-43-2	Benzene	ND		250	298	119	250	283	113	5	70-130/30
108-86-1	Bromobenzene	ND		250	273	109	250	257	103	6	70-130/30
74-97-5	Bromochloromethane	ND		250	298	119	250	293	117	2	70-130/30
75-27-4	Bromodichloromethane	ND		250	305	122	250	291	116	5	70-130/30
75-25-2	Bromoform	ND		250	225	90	250	221	88	2	70-130/30
74-83-9	Bromomethane	ND		250	270	108	250	254	102	6	70-130/30
78-93-3	2-Butanone (MEK)	ND		250	209	84	250	210	84	0	70-130/30
104-51-8	n-Butylbenzene	ND		250	290	116	250	278	111	4	70-130/30
135-98-8	sec-Butylbenzene	ND		250	297	119	250	283	113	5	70-130/30
98-06-6	tert-Butylbenzene	ND		250	286	114	250	272	109	5	70-130/30
75-15-0	Carbon disulfide	ND		250	270	108	250	260	104	4	70-130/30
56-23-5	Carbon tetrachloride	ND		250	311	124	250	297	119	5	70-130/30
108-90-7	Chlorobenzene	ND		250	245	98	250	233	93	5	70-130/30
75-00-3	Chloroethane	ND		250	336	134* [a]	250	319	128	5	70-130/30
110-75-8	2-Chloroethyl vinyl ether	ND		250	ND	0* [a]	250	ND	0* [a]	nc	70-130/30
67-66-3	Chloroform	ND		250	287	115	250	275	110	4	70-130/30
74-87-3	Chloromethane	ND		250	293	117	250	272	109	7	70-130/30
95-49-8	o-Chlorotoluene	ND		250	268	107	250	251	100	7	70-130/30
106-43-4	p-Chlorotoluene	ND		250	271	108	250	258	103	5	70-130/30
124-48-1	Dibromochloromethane	ND		250	293	117	250	280	112	5	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		250	249	100	250	238	95	5	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		250	253	101	250	239	96	6	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		250	251	100	250	240	96	4	70-130/30
75-71-8	Dichlorodifluoromethane	ND		250	337	135* [a]	250	317	127	6	70-130/30
75-34-3	1,1-Dichloroethane	ND		250	305	122	250	291	116	5	70-130/30
107-06-2	1,2-Dichloroethane	ND		250	286	114	250	274	110	4	70-130/30
75-35-4	1,1-Dichloroethene	ND		250	314	126	250	300	120	5	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		250	305	122	250	295	118	3	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		250	301	120	250	287	115	5	70-130/30
78-87-5	1,2-Dichloropropane	ND		250	287	115	250	273	109	5	70-130/30
142-28-9	1,3-Dichloropropane	ND		250	268	107	250	256	102	5	70-130/30
594-20-7	2,2-Dichloropropane	ND		250	339	136* [a]	250	335	134* [a]	1	70-130/30
563-58-6	1,1-Dichloropropene	ND		250	300	120	250	283	113	6	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27977
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC28049-3MS	V27653.D	5	02/05/14	AMY	n/a	n/a	MSV1042
MC28049-3MSD	V27654.D	5	02/05/14	AMY	n/a	n/a	MSV1042
MC28049-3	V27648.D	1	02/05/14	AMY	n/a	n/a	MSV1042

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27977-4

CAS No.	Compound	MC28049-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		250	264	106	250	253	101	4	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		250	281	112	250	271	108	4	70-130/30
123-91-1	1,4-Dioxane	ND		1250	1250	100	1250	1310	105	5	70-130/30
97-63-2	Ethyl methacrylate	ND		250	269	108	250	260	104	3	72-139/30
100-41-4	Ethylbenzene	ND		250	283	113	250	268	107	5	70-130/30
87-68-3	Hexachlorobutadiene	ND		250	289	116	250	283	113	2	70-130/30
591-78-6	2-Hexanone	ND		250	201	80	250	195	78	3	70-130/30
98-82-8	Isopropylbenzene	ND		250	304	122	250	286	114	6	70-130/30
99-87-6	p-Isopropyltoluene	ND		250	286	114	250	272	109	5	70-130/30
1634-04-4	Methyl Tert Butyl Ether	ND		250	330	132* [a]	250	319	128	3	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	303	121	250	296	118	2	70-130/30
74-95-3	Methylene bromide	ND		250	288	115	250	278	111	4	70-130/30
75-09-2	Methylene chloride	ND		250	284	114	250	271	108	5	70-130/30
91-20-3	Naphthalene	ND		250	281	112	250	277	111	1	70-130/30
103-65-1	n-Propylbenzene	ND		250	289	116	250	272	109	6	70-130/30
100-42-5	Styrene	ND		250	259	104	250	247	99	5	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		250	275	110	250	264	106	4	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	268	107	250	254	102	5	70-130/30
127-18-4	Tetrachloroethene	ND		250	284	114	250	269	108	5	70-130/30
108-88-3	Toluene	0.88	J	250	312	124	250	295	118	6	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		250	274	110	250	293	117	7	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		250	298	119	250	299	120	0	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		250	317	127	250	308	123	3	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		250	291	116	250	278	111	5	70-130/30
79-01-6	Trichloroethene	ND		250	301	120	250	285	114	5	70-130/30
75-69-4	Trichlorofluoromethane	ND		250	311	124	250	296	118	5	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		250	275	110	250	267	107	3	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		250	294	118	250	276	110	6	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		250	295	118	250	282	113	5	70-130/30
108-05-4	Vinyl Acetate	ND		250	303	121	250	292	117	4	70-130/30
75-01-4	Vinyl chloride	ND		250	270	108	250	253	101	7	70-130/30
	m,p-Xylene	ND		500	467	93	500	446	89	5	70-130/30
95-47-6	o-Xylene	ND		250	236	94	250	225	90	5	70-130/30
1330-20-7	Xylene (total)	ND		750	703	94	750	671	89	5	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27977
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC28049-3MS	V27653.D	5	02/05/14	AMY	n/a	n/a	MSV1042
MC28049-3MSD	V27654.D	5	02/05/14	AMY	n/a	n/a	MSV1042
MC28049-3	V27648.D	1	02/05/14	AMY	n/a	n/a	MSV1042

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27977-4

CAS No.	Surrogate Recoveries	MS	MSD	MC28049-3	Limits
1868-53-7	Dibromofluoromethane	98%	98%	109%	70-130%
2037-26-5	Toluene-D8	100%	100%	100%	70-130%
460-00-4	4-Bromofluorobenzene	99%	99%	103%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.

* = Outside of Control Limits.

Volatile Internal Standard Area Summary

Job Number: MC27977
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSV1041-CC1019	**Injection Date:**	02/04/14
Lab File ID:	V27607.D	**Injection Time:**	10:10
Instrument ID:	GCMSV	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	572790	6.53	744080	7.72	432976	11.06	475835	13.27	214114	3.50
Upper Limit [a]	1145580	7.03	1488160	8.22	865952	11.56	951670	13.77	428228	4.00
Lower Limit [b]	286395	6.03	372040	7.22	216488	10.56	237918	12.77	107057	3.00

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSV1041-BS	572790	6.53	744080	7.72	432976	11.06	475835	13.27	214114	3.50
MSV1041-BSD	558094	6.54	727770	7.72	421150	11.06	458739	13.27	201353	3.50
MSV1041-MB	468370	6.54	644896	7.72	372621	11.06	373394	13.27	174194	3.50
MC27977-6	467035	6.54	644686	7.72	372397	11.06	370491	13.27	168294	3.50
MC27977-2	476951	6.54	650809	7.72	379014	11.06	378417	13.27	193791	3.51
ZZZZZZ	420714	6.54	581997	7.72	344415	11.06	342728	13.27	162784	3.50
MC27977-1	516738	6.54	684967	7.72	410783	11.06	417832	13.28	192857	3.50
MC27977-3	530903	6.54	671479	7.72	389304	11.06	390490	13.28	201820	3.51
MC27977-5	480119	6.54	656552	7.72	386530	11.06	395740	13.28	174726	3.51
ZZZZZZ	523693	6.54	682809	7.72	389220	11.06	401858	13.27	203991	3.50
ZZZZZZ	488807	6.54	666481	7.72	381833	11.06	401345	13.27	199989	3.50
MC27977-1MS	559136	6.54	747767	7.72	444664	11.06	503156	13.27	219803	3.50
MC27977-1MSD	564077	6.54	762668	7.72	448483	11.06	504878	13.27	214735	3.51
ZZZZZZ	543890	6.54	720433	7.72	415149	11.06	423274	13.27	206382	3.51
ZZZZZZ	498756	6.53	691777	7.72	398647	11.06	406940	13.28	196129	3.50
ZZZZZZ	510186	6.53	696024	7.72	403297	11.06	404988	13.27	204936	3.50
ZZZZZZ	498316	6.53	673739	7.72	391673	11.06	395535	13.27	198907	3.50
ZZZZZZ	485168	6.54	650264	7.72	377039	11.06	382888	13.28	179267	3.51
ZZZZZZ	502474	6.55	660884	7.73	384704	11.07	407839	13.28	180579	3.50

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: MC27977
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSV1042-CC1019	**Injection Date:**	02/05/14
Lab File ID:	V27637.D	**Injection Time:**	09:23
Instrument ID:	GCMSV	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	573160	6.57	750824	7.75	448659	11.08	500167	13.29	217472	3.53
Upper Limit [a]	1146320	7.07	1501648	8.25	897318	11.58	1000334	13.79	434944	4.03
Lower Limit [b]	286580	6.07	375412	7.25	224330	10.58	250084	12.79	108736	3.03

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSV1042-BS	555130	6.56	724931	7.74	424053	11.08	470259	13.29	204204	3.52
MSV1042-BSD	538538	6.57	709202	7.75	414373	11.08	454579	13.29	199054	3.53
MSV1042-MB	449418	6.58	613800	7.76	361859	11.08	359541	13.30	173323	3.54
ZZZZZZ	440684	6.58	602223	7.75	358457	11.09	359022	13.30	165187	3.53
ZZZZZZ	416468	6.59	582738	7.76	345849	11.09	343012	13.30	157788	3.54
ZZZZZZ	407498	6.58	572752	7.76	336878	11.09	336034	13.30	149557	3.53
ZZZZZZ	408385	6.58	567291	7.76	336532	11.09	334838	13.30	151836	3.53
ZZZZZZ	399233	6.59	568956	7.76	331860	11.09	336421	13.30	154871	3.54
MC27977-4	381085	6.59	554311	7.77	326546	11.09	326009	13.30	155274	3.55
MC28049-3	383833	6.60	534444	7.77	323398	11.09	321121	13.30	160445	3.55
ZZZZZZ	378529	6.60	521332	7.77	311450	11.09	314020	13.30	158717	3.55
ZZZZZZ	423697	6.59	543642	7.77	330198	11.09	341592	13.30	177522	3.54
ZZZZZZ	441963	6.59	581854	7.77	354399	11.09	393174	13.30	162865	3.55
ZZZZZZ	446323	6.59	609116	7.76	349025	11.09	371278	13.30	191882	3.54
MC28049-3MS	488825	6.59	636264	7.77	370007	11.09	409649	13.30	191168	3.55
MC28049-3MSD	509603	6.59	668384	7.76	385716	11.09	431833	13.30	202241	3.54
ZZZZZZ	439595	6.59	578937	7.77	341341	11.09	349093	13.30	174169	3.54
ZZZZZZ	439130	6.59	688016	7.76	357658	11.09	366161	13.30	183143	3.53
ZZZZZZ	430828	6.59	583617	7.76	342244	11.09	363034	13.30	174277	3.53
ZZZZZZ	423050	6.59	586275	7.76	340582	11.09	358478	13.30	175665	3.53
ZZZZZZ	429093	6.59	598294	7.77	348217	11.09	361453	13.30	180786	3.54

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: MC27977
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Method: SW846 8260C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC27977-1	V27616.D	95	106	104
MC27977-2	V27612.D	104	99	104
MC27977-3	V27617.D	93	100	104
MC27977-4	V27647.D	110	97	103
MC27977-5	V27618.D	103	99	105
MC27977-6	V27611.D	103	98	104
MC27977-1MS	V27623.D	96	104	97
MC27977-1MSD	V27624.D	97	103	98
MC28049-3MS	V27653.D	98	100	99
MC28049-3MSD	V27654.D	98	100	99
MSV1041-BS	V27607.D	96	100	98
MSV1041-BSD	V27608.D	97	100	99
MSV1041-MB	V27610.D	103	98	103
MSV1042-BS	V27638.D	96	100	98
MSV1042-BSD	V27639.D	98	99	100
MSV1042-MB	V27641.D	104	99	103

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	70-130%
S2 = Toluene-D8	70-130%
S3 = 4-Bromofluorobenzene	70-130%

GC/MS Semi-volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC27977
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36696-MB	W17506.D	1	01/31/14	KR	01/29/14	OP36696	MSW769

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC27977-1, MC27977-2, MC27977-3, MC27977-4, MC27977-5

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.38	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.49	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.33	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	ND	10	1.3	ug/l	
	3&4-Methylphenol	ND	10	2.0	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.50	ug/l	
100-02-7	4-Nitrophenol	ND	20	0.58	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	ND	5.0	0.51	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.57	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.32	ug/l	
62-53-3	Aniline	ND	10	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.20	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.85	ug/l	
100-51-6	Benzyl Alcohol	ND	10	0.57	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.92	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.25	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.21	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.23	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.13	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.20	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.65	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.68	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.64	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.50	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.39	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	0.43	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	0.50	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.50	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.49	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.30	ug/l	

Method Blank Summary

Job Number: MC27977
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36696-MB	W17506.D	1	01/31/14	KR	01/29/14	OP36696	MSW769

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC27977-1, MC27977-2, MC27977-3, MC27977-4, MC27977-5

CAS No.	Compound	Result	RL	MDL	Units	Q
77-47-4	Hexachlorocyclopentadiene	ND	10	2.5	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.44	ug/l	
78-59-1	Isophorone	ND	5.0	0.20	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.50	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.3	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.25	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.0	0.50	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.81	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.54	ug/l	
110-86-1	Pyridine	ND	10	0.52	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	48%	15-110%
4165-62-2	Phenol-d5	33%	15-110%
118-79-6	2,4,6-Tribromophenol	88%	15-110%
4165-60-0	Nitrobenzene-d5	78%	30-130%
321-60-8	2-Fluorobiphenyl	76%	30-130%
1718-51-0	Terphenyl-d14	89%	30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

Method Blank Summary

Job Number: MC27977
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36697-MB	I87170.D	1	01/31/14	KR	01/29/14	OP36697	MSI3241

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

MC27977-1, MC27977-2, MC27977-3, MC27977-4, MC27977-5

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.069	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.050	ug/l	
120-12-7	Anthracene	ND	0.10	0.092	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	0.020	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.029	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	0.032	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.027	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.039	ug/l	
218-01-9	Chrysene	ND	0.10	0.024	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.032	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.041	ug/l	
86-73-7	Fluorene	ND	0.10	0.099	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.031	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.20	0.050	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.20	0.074	ug/l	
85-01-8	Phenanthrene	0.023	0.050	0.013	ug/l	J
129-00-0	Pyrene	ND	0.10	0.038	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	78%	30-130%
321-60-8	2-Fluorobiphenyl	70%	30-130%
1718-51-0	Terphenyl-d14	85%	30-130%

Blank Spike Summary

Job Number: MC27977
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36696-BS	W17507.D	1	01/31/14	KR	01/29/14	OP36696	MSW769

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC27977-1, MC27977-2, MC27977-3, MC27977-4, MC27977-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	50	18.7	37	30-130
95-57-8	2-Chlorophenol	50	44.8	90	30-130
59-50-7	4-Chloro-3-methyl phenol	50	48.5	97	30-130
120-83-2	2,4-Dichlorophenol	50	51.3	103	30-130
105-67-9	2,4-Dimethylphenol	50	41.8	84	30-130
51-28-5	2,4-Dinitrophenol	50	50.0	100	30-130
534-52-1	4,6-Dinitro-o-cresol	50	54.1	108	30-130
95-48-7	2-Methylphenol	50	41.6	83	30-130
	3&4-Methylphenol	100	79.2	79	30-130
88-75-5	2-Nitrophenol	50	51.1	102	30-130
100-02-7	4-Nitrophenol	50	22.4	45	30-130
87-86-5	Pentachlorophenol	50	44.1	88	30-130
108-95-2	Phenol	50	21.4	43	30-130
95-95-4	2,4,5-Trichlorophenol	50	50.8	102	30-130
88-06-2	2,4,6-Trichlorophenol	50	49.1	98	30-130
62-53-3	Aniline	50	30.6	61	40-140
101-55-3	4-Bromophenyl phenyl ether	50	44.4	89	40-140
85-68-7	Butyl benzyl phthalate	50	47.5	95	40-140
100-51-6	Benzyl Alcohol	50	34.5	69	40-140
91-58-7	2-Chloronaphthalene	50	41.9	84	40-140
106-47-8	4-Chloroaniline	50	37.7	75	40-140
111-91-1	bis(2-Chloroethoxy)methane	50	41.5	83	40-140
111-44-4	bis(2-Chloroethyl)ether	50	42.1	84	40-140
108-60-1	bis(2-Chloroisopropyl)ether	50	49.1	98	40-140
7005-72-3	4-Chlorophenyl phenyl ether	50	43.2	86	40-140
122-66-7	1,2-Diphenylhydrazine	50	41.5	83	40-140
121-14-2	2,4-Dinitrotoluene	50	46.3	93	40-140
606-20-2	2,6-Dinitrotoluene	50	42.1	84	40-140
91-94-1	3,3'-Dichlorobenzidine	50	45.5	91	40-140
132-64-9	Dibenzofuran	50	39.9	80	40-140
84-74-2	Di-n-butyl phthalate	50	43.2	86	40-140
117-84-0	Di-n-octyl phthalate	50	48.8	98	40-140
84-66-2	Diethyl phthalate	50	40.0	80	40-140
131-11-3	Dimethyl phthalate	50	30.5	61	40-140
117-81-7	bis(2-Ethylhexyl)phthalate	50	48.7	97	40-140
118-74-1	Hexachlorobenzene	50	45.5	91	40-140

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC27977
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36696-BS	W17507.D	1	01/31/14	KR	01/29/14	OP36696	MSW769

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC27977-1, MC27977-2, MC27977-3, MC27977-4, MC27977-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
77-47-4	Hexachlorocyclopentadiene	50	22.2	44	40-140
67-72-1	Hexachloroethane	50	30.4	61	40-140
78-59-1	Isophorone	50	41.7	83	40-140
88-74-4	2-Nitroaniline	50	43.1	86	40-140
99-09-2	3-Nitroaniline	50	41.9	84	40-140
100-01-6	4-Nitroaniline	50	43.7	87	40-140
98-95-3	Nitrobenzene	50	42.2	84	40-140
62-75-9	n-Nitrosodimethylamine	50	27.2	54	40-140
621-64-7	N-Nitroso-di-n-propylamine	50	44.6	89	40-140
86-30-6	N-Nitrosodiphenylamine	50	42.0	84	40-140
110-86-1	Pyridine	50	21.9	44	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	54%	15-110%
4165-62-2	Phenol-d5	37%	15-110%
118-79-6	2,4,6-Tribromophenol	94%	15-110%
4165-60-0	Nitrobenzene-d5	86%	30-130%
321-60-8	2-Fluorobiphenyl	82%	30-130%
1718-51-0	Terphenyl-d14	92%	30-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC27977
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36697-BS	I87171.D	1	01/31/14	KR	01/29/14	OP36697	MSI3241

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

MC27977-1, MC27977-2, MC27977-3, MC27977-4, MC27977-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	50	39.5	79	40-140
208-96-8	Acenaphthylene	50	33.7	67	40-140
120-12-7	Anthracene	50	38.1	76	40-140
56-55-3	Benzo(a)anthracene	50	44.3	89	40-140
50-32-8	Benzo(a)pyrene	50	42.1	84	40-140
205-99-2	Benzo(b)fluoranthene	50	45.2	90	40-140
191-24-2	Benzo(g,h,i)perylene	50	47.6	95	40-140
207-08-9	Benzo(k)fluoranthene	50	43.1	86	40-140
218-01-9	Chrysene	50	42.3	85	40-140
53-70-3	Dibenzo(a,h)anthracene	50	48.6	97	40-140
206-44-0	Fluoranthene	50	42.3	85	40-140
86-73-7	Fluorene	50	39.2	78	40-140
193-39-5	Indeno(1,2,3-cd)pyrene	50	48.4	97	40-140
90-12-0	1-Methylnaphthalene	50	35.3	71	40-140
91-57-6	2-Methylnaphthalene	50	34.5	69	40-140
85-01-8	Phenanthrene	50	37.9	76	40-140
129-00-0	Pyrene	50	41.5	83	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	86%	30-130%
321-60-8	2-Fluorobiphenyl	77%	30-130%
1718-51-0	Terphenyl-d14	89%	30-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27977
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36696-MS1	W17508.D	1	01/31/14	KR	01/29/14	OP36696	MSW769
OP36696-MSD1	W17509.D	1	01/31/14	KR	01/29/14	OP36696	MSW769
MC27977-1	W17510.D	1	01/31/14	KR	01/30/14	OP36696	MSW769

The QC reported here applies to the following samples: Method: SW846 8270D

MC27977-1, MC27977-2, MC27977-3, MC27977-4, MC27977-5

CAS No.	Compound	MC27977-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		54.9	4.1	7* a	53.2	33.7	63	157* b	30-130/20
95-57-8	2-Chlorophenol	ND		54.9	46.0	84	53.2	45.3	85	2	30-130/20
59-50-7	4-Chloro-3-methyl phenol	ND		54.9	50.8	92	53.2	53.5	101	5	30-130/20
120-83-2	2,4-Dichlorophenol	ND		54.9	49.8	91	53.2	52.1	98	5	30-130/20
105-67-9	2,4-Dimethylphenol	ND		54.9	49.4	90	53.2	51.7	97	5	30-130/20
51-28-5	2,4-Dinitrophenol	ND		54.9	44.0	80	53.2	55.9	105	24* b	30-130/20
534-52-1	4,6-Dinitro-o-cresol	ND		54.9	53.5	97	53.2	60.4	114	12	30-130/20
95-48-7	2-Methylphenol	ND		54.9	45.5	83	53.2	47.7	90	5	30-130/20
	3&4-Methylphenol	ND		110	90.6	82	106	96.6	91	6	30-130/20
88-75-5	2-Nitrophenol	ND		54.9	49.1	89	53.2	50.9	96	4	30-130/20
100-02-7	4-Nitrophenol	ND		54.9	27.3	50	53.2	32.7	61	18	30-130/20
87-86-5	Pentachlorophenol	ND		54.9	47.4	86	53.2	53.8	101	13	30-130/20
108-95-2	Phenol	ND		54.9	26.3	48	53.2	29.9	56	13	30-130/20
95-95-4	2,4,5-Trichlorophenol	ND		54.9	47.8	87	53.2	55.0	103	14	30-130/20
88-06-2	2,4,6-Trichlorophenol	ND		54.9	45.1	82	53.2	54.1	102	18	30-130/20
62-53-3	Aniline	ND		54.9	30.4	55	53.2	29.6	56	3	40-140/20
101-55-3	4-Bromophenyl phenyl ether	ND		54.9	45.9	84	53.2	51.2	96	11	40-140/20
85-68-7	Butyl benzyl phthalate	ND		54.9	50.7	92	53.2	55.4	104	9	40-140/20
100-51-6	Benzyl Alcohol	ND		54.9	36.7	67	53.2	36.4	68	1	40-140/20
91-58-7	2-Chloronaphthalene	ND		54.9	39.7	72	53.2	45.2	85	13	40-140/20
106-47-8	4-Chloroaniline	ND		54.9	38.3	70	53.2	39.6	74	3	40-140/20
111-91-1	bis(2-Chloroethoxy)methane	ND		54.9	44.1	80	53.2	46.1	87	4	40-140/20
111-44-4	bis(2-Chloroethyl)ether	ND		54.9	44.5	81	53.2	46.3	87	4	40-140/20
108-60-1	bis(2-Chloroisopropyl)ether	ND		54.9	50.6	92	53.2	51.7	97	2	40-140/20
7005-72-3	4-Chlorophenyl phenyl ether	ND		54.9	38.8	71	53.2	46.6	88	18	40-140/20
122-66-7	1,2-Diphenylhydrazine	ND		54.9	44.1	80	53.2	50.7	95	14	40-140/20
121-14-2	2,4-Dinitrotoluene	ND		54.9	45.5	83	53.2	53.1	100	15	40-140/20
606-20-2	2,6-Dinitrotoluene	ND		54.9	42.6	78	53.2	49.4	93	15	40-140/20
91-94-1	3,3'-Dichlorobenzidine	ND		54.9	26.2	48	53.2	8.7	16* a	100* b	40-140/20
132-64-9	Dibenzofuran	1.9	J	54.9	39.7	69	53.2	46.5	84	16	40-140/20
84-74-2	Di-n-butyl phthalate	ND		54.9	45.5	83	53.2	50.2	94	10	40-140/20
117-84-0	Di-n-octyl phthalate	ND		54.9	50.7	92	53.2	55.0	103	8	40-140/20
84-66-2	Diethyl phthalate	ND		54.9	43.0	78	53.2	51.6	97	18	40-140/20
131-11-3	Dimethyl phthalate	ND		54.9	44.5	81	53.2	53.2	100	18	40-140/20
117-81-7	bis(2-Ethylhexyl)phthalate	ND		54.9	51.2	93	53.2	56.7	107	10	40-140/20
118-74-1	Hexachlorobenzene	ND		54.9	45.2	82	53.2	51.5	97	13	40-140/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27977
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36696-MS1	W17508.D	1	01/31/14	KR	01/29/14	OP36696	MSW769
OP36696-MSD1	W17509.D	1	01/31/14	KR	01/29/14	OP36696	MSW769
MC27977-1	W17510.D	1	01/31/14	KR	01/30/14	OP36696	MSW769

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC27977-1, MC27977-2, MC27977-3, MC27977-4, MC27977-5

CAS No.	Compound	MC27977-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
77-47-4	Hexachlorocyclopentadiene	ND		54.9	17.4	32* [a]	53.2	20.7	39* [a]	17	40-140/20
67-72-1	Hexachloroethane	ND		54.9	26.6	48	53.2	27.0	51	1	40-140/20
78-59-1	Isophorone	ND		54.9	43.5	79	53.2	45.6	86	5	40-140/20
88-74-4	2-Nitroaniline	ND		54.9	42.2	77	53.2	50.6	95	18	40-140/20
99-09-2	3-Nitroaniline	ND		54.9	38.4	70	53.2	34.5	65	11	40-140/20
100-01-6	4-Nitroaniline	ND		54.9	41.9	76	53.2	39.0	73	7	40-140/20
98-95-3	Nitrobenzene	ND		54.9	47.8	87	53.2	49.5	93	3	40-140/20
62-75-9	n-Nitrosodimethylamine	ND		54.9	30.0	55	53.2	29.1	55	3	40-140/20
621-64-7	N-Nitroso-di-n-propylamine	ND		54.9	45.8	83	53.2	49.5	93	8	40-140/20
86-30-6	N-Nitrosodiphenylamine	ND		54.9	45.0	82	53.2	50.3	95	11	40-140/20
110-86-1	Pyridine	ND		54.9	22.9	42	53.2	21.1	40	8	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC27977-1	Limits
367-12-4	2-Fluorophenol	51%	50%	47%	15-110%
4165-62-2	Phenol-d5	41%	49%	36%	15-110%
118-79-6	2,4,6-Tribromophenol	82%	95%	78%	15-110%
4165-60-0	Nitrobenzene-d5	81%	88%	84%	30-130%
321-60-8	2-Fluorobiphenyl	61%	77%	75%	30-130%
1718-51-0	Terphenyl-d14	80%	92%	85%	30-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.
(b) High RPD due to possible matrix interference and/or sample non-homogeneity.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27977
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36697-MS1	I87172.D	1	01/31/14	KR	01/29/14	OP36697	MSI3241
OP36697-MSD1	I87173.D	1	01/31/14	KR	01/29/14	OP36697	MSI3241
MC27977-1	I87174.D	1	01/31/14	KR	01/30/14	OP36697	MSI3241

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

MC27977-1, MC27977-2, MC27977-3, MC27977-4, MC27977-5

CAS No.	Compound	MC27977-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	0.99		54.9	39.8	71	53.2	44.0	81	10	40-140/20
208-96-8	Acenaphthylene	0.32		54.9	33.7	61	53.2	36.7	68	9	40-140/20
120-12-7	Anthracene	ND		54.9	39.5	72	53.2	42.9	81	8	40-140/20
56-55-3	Benzo(a)anthracene	0.039	J	54.9	45.5	83	53.2	49.7	93	9	40-140/20
50-32-8	Benzo(a)pyrene	0.044	J	54.9	43.9	80	53.2	47.5	89	8	40-140/20
205-99-2	Benzo(b)fluoranthene	0.048	J	54.9	46.2	84	53.2	50.1	94	8	40-140/20
191-24-2	Benzo(g,h,i)perylene	0.052	J	54.9	49.7	90	53.2	54.4	102	9	40-140/20
207-08-9	Benzo(k)fluoranthene	ND		54.9	45.5	83	53.2	50.4	95	10	40-140/20
218-01-9	Chrysene	0.047	J	54.9	43.4	79	53.2	47.2	89	8	40-140/20
53-70-3	Dibenzo(a,h)anthracene	0.035	J	54.9	50.8	92	53.2	55.1	104	8	40-140/20
206-44-0	Fluoranthene	0.065	J	54.9	44.2	80	53.2	47.8	90	8	40-140/20
86-73-7	Fluorene	1.6		54.9	37.7	66	53.2	42.6	77	12	40-140/20
193-39-5	Indeno(1,2,3-cd)pyrene	0.041	J	54.9	50.5	92	53.2	54.9	103	8	40-140/20
90-12-0	1-Methylnaphthalene	70.1		54.9	92.4	41	53.2	96.9	50	5	40-140/20
91-57-6	2-Methylnaphthalene	28.4		54.9	58.2	54	53.2	61.8	63	6	40-140/20
85-01-8	Phenanthrene	0.77		54.9	40.4	72	53.2	44.1	81	9	40-140/20
129-00-0	Pyrene	0.099	J	54.9	42.6	77	53.2	46.6	87	9	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC27977-1	Limits
4165-60-0	Nitrobenzene-d5	78%	83%	82%	30-130%
321-60-8	2-Fluorobiphenyl	61%	72%	70%	30-130%
1718-51-0	Terphenyl-d14	77%	89%	83%	30-130%

* = Outside of Control Limits.

Semivolatile Internal Standard Area Summary

Job Number: MC27977
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSI3241-CC3238	**Injection Date:**	01/31/14
Lab File ID:	I87167.D	**Injection Time:**	13:32
Instrument ID:	GCMSI	**Method:**	SW846 8270D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	356808	4.43	790051	5.49	435059	7.04	712559	8.47	447531	11.24	1187349	12.75
Upper Limit [a]	713616	4.93	1580102	5.99	870118	7.54	1425118	8.97	895062	11.74	2374698	13.25
Lower Limit [b]	178404	3.93	395026	4.99	217530	6.54	356280	7.97	223766	10.74	593675	12.25

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP36718-MB	377168	4.43	837965	5.49	456328	7.04	748463	8.47	466759	11.24	1209576	12.75
OP36718-BS	368854	4.43	832332	5.49	449530	7.04	730568	8.47	442146	11.24	1109923	12.75
OP36697-MB	324903	4.43	715893	5.49	389791	7.04	642953	8.46	398521	11.23	1067989	12.74
OP36697-BS	335337	4.43	747618	5.49	401367	7.04	657805	8.47	399809	11.24	1038031	12.75
OP36697-MS1	329145	4.43	721677	5.49	395394	7.04	647671	8.47	398682	11.24	1045379	12.75
OP36697-MSD1	313939	4.43	692443	5.49	371805	7.04	621156	8.47	387178	11.24	1016795	12.75
MC27977-1	315106	4.43	680023	5.49	366746	7.04	598566	8.47	373570	11.24	970506	12.74
MC27977-2	305999	4.43	672537	5.49	361458	7.04	595860	8.46	373112	11.23	990332	12.74
MC27977-3	328971	4.43	699688	5.49	385694	7.04	616809	8.47	371655	11.24	985353	12.74
MC27977-4	316469	4.43	689031	5.49	387486	7.04	606699	8.46	365093	11.24	972044	12.74
MC27977-5	324416	4.43	712700	5.49	381294	7.04	625278	8.47	387642	11.24	1004647	12.75
ZZZZZZ	326338	4.43	716807	5.48	386892	7.03	632526	8.46	398665	11.23	1026956	12.74
ZZZZZZ	380829	4.43	830606	5.49	454209	7.04	739264	8.46	447648	11.24	1185554	12.74
ZZZZZZ	347650	4.43	764646	5.49	412251	7.04	662332	8.46	403669	11.24	1053237	12.74
ZZZZZZ	330757	4.43	726295	5.49	387837	7.04	634589	8.47	395144	11.24	1017578	12.75
OP36718-MS	395036	4.43	873352	5.49	471007	7.04	757849	8.47	443401	11.24	1101795	12.75
OP36718-MSD	384000	4.43	857998	5.49	462947	7.04	749679	8.47	440917	11.24	1081813	12.75
MC27986-7	406577	4.43	895027	5.49	488794	7.04	782430	8.47	452977	11.24	1104078	12.75
ZZZZZZ	410472	4.43	893805	5.49	474906	7.04	757109	8.47	446084	11.24	1069977	12.75
ZZZZZZ	414891	4.43	906236	5.49	482868	7.04	777234	8.47	455531	11.24	1102219	12.75
ZZZZZZ	408106	4.43	895166	5.49	477795	7.04	775709	8.47	457116	11.24	1133539	12.75
ZZZZZZ	422012	4.43	919748	5.49	492865	7.04	791178	8.47	442528	11.24	1073061	12.75
ZZZZZZ	411121	4.43	895810	5.49	481832	7.04	776329	8.47	460745	11.24	1126800	12.75
ZZZZZZ	406711	4.43	896042	5.49	475289	7.04	774775	8.47	447988	11.24	1089645	12.75
ZZZZZZ	414775	4.43	919998	5.49	494883	7.04	793790	8.47	460785	11.24	1085543	12.75
ZZZZZZ	415394	4.43	916947	5.49	494580	7.04	801904	8.47	482972	11.24	1141153	12.75

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC27977
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSI3241-CC3238	**Injection Date:**	01/31/14
Lab File ID:	I87167.D	**Injection Time:**	13:32
Instrument ID:	GCMSI	**Method:**	SW846 8270D BY SIM

Lab	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
Sample ID	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT

(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC27977
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSW769-CC768	**Injection Date:**	01/31/14
Lab File ID:	W17504.D	**Injection Time:**	14:03
Instrument ID:	GCMSW	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	127972	4.43	485501	5.50	334388	7.04	591866	8.34	597548	11.03	565363	12.80
Upper Limit [a]	255944	4.93	971002	6.00	668776	7.54	1183732	8.84	1195096	11.53	1130726	13.30
Lower Limit [b]	63986	3.93	242751	5.00	167194	6.54	295933	7.84	298774	10.53	282682	12.30

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
ZZZZZZ	99524	4.43	380576	5.50	256672	7.04	451897	8.33	473715	11.02	450981	12.79
OP36696-MB	122189	4.43	468126	5.50	314512	7.04	534810	8.34	557696	11.02	507871	12.79
OP36696-BS	120938	4.43	452433	5.50	309501	7.04	547614	8.34	556140	11.03	512591	12.79
OP36696-MS1	116668	4.43	434416	5.50	310319	7.04	506919	8.34	524219	11.03	495638	12.80
OP36696-MSD1	107431	4.43	407960	5.50	268557	7.04	462763	8.34	478038	11.03	452505	12.80
MC27977-1	105019	4.43	397827	5.50	269803	7.04	460242	8.34	479909	11.03	453703	12.79
MC27977-2	113960	4.43	423479	5.50	284797	7.04	489764	8.34	494820	11.02	465494	12.79
MC27977-3	117920	4.43	430231	5.50	285216	7.04	481414	8.34	487894	11.03	457188	12.79
MC27977-4	109463	4.43	413642	5.50	283463	7.04	469850	8.34	497598	11.02	462193	12.79
MC27977-5	118138	4.43	453493	5.50	290057	7.04	488959	8.34	490112	11.03	458896	12.80
ZZZZZZ	138491	4.43	518874	5.50	342103	7.04	571821	8.34	590476	11.02	548644	12.79
ZZZZZZ	128565	4.43	482434	5.50	318222	7.04	524619	8.34	524673	11.02	492702	12.79
ZZZZZZ	127617	4.43	475544	5.50	304916	7.04	503618	8.34	496909	11.03	468850	12.80
ZZZZZZ	115279	4.43	444808	5.50	299639	7.04	513205	8.34	522614	11.02	477473	12.79
ZZZZZZ	117456	4.43	441651	5.50	290607	7.04	487510	8.33	464333	11.02	430642	12.79
ZZZZZZ	116556	4.43	453160	5.50	302217	7.04	527013	8.33	541412	11.02	512409	12.79
ZZZZZZ	133300	4.43	499647	5.50	333145	7.04	569029	8.33	581304	11.02	547796	12.79
ZZZZZZ	183163	4.43	682316	5.50	441310	7.04	733255	8.33	698534	11.02	639754	12.79
ZZZZZZ	152850	4.43	544393	5.50	354327	7.04	571235	8.34	598677	11.02	581314	12.79

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Surrogate Recovery Summary

Job Number: MC27977
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Method: SW846 8270D **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
MC27977-1	W17510.D	47	36	78	84	75	85
MC27977-2	W17511.D	33	24	73	56	54	95
MC27977-3	W17512.D	39	33	88	72	73	94
MC27977-4	W17513.D	37	30	86	82	76	95
MC27977-5	W17514.D	39	34	89	76	76	92
OP36696-BS	W17507.D	54	37	94	86	82	92
OP36696-MB	W17506.D	48	33	88	78	76	89
OP36696-MS1	W17508.D	51	41	82	81	61	80
OP36696-MSD1	W17509.D	50	49	95	88	77	92

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	15-110%
S2 = Phenol-d5	15-110%
S3 = 2,4,6-Tribromophenol	15-110%
S4 = Nitrobenzene-d5	30-130%
S5 = 2-Fluorobiphenyl	30-130%
S6 = Terphenyl-d14	30-130%

Semivolatile Surrogate Recovery Summary

Job Number: MC27977
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Method: SW846 8270D BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC27977-1	I87174.D	82	70	83
MC27977-2	I87175.D	58	51	87
MC27977-3	I87176.D	77	67	90
MC27977-4	I87177.D	83	69	92
MC27977-5	I87178.D	80	69	88
OP36697-BS	I87171.D	86	77	89
OP36697-MB	I87170.D	78	70	85
OP36697-MS1	I87172.D	78	61	77
OP36697-MSD1	I87173.D	83	72	89

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	30-130%
S2 = 2-Fluorobiphenyl	30-130%
S3 = Terphenyl-d14	30-130%

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries

Method Blank Summary

Job Number: MC27977
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36715-MB	BK34385.D	1	01/31/14	NK	01/30/14	OP36715	GBK1134

The QC reported here applies to the following samples: **Method:** SW846 8011

MC27977-1, MC27977-2, MC27977-3, MC27977-4, MC27977-5, MC27977-7

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0054	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.011	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	Bromofluorobenzene (S)	92%	36-173%
460-00-4	Bromofluorobenzene (S)	79%	36-173%

Blank Spike Summary

Job Number: MC27977
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36715-BS	BK34386.D	1	01/31/14	NK	01/30/14	OP36715	GBK1134

The QC reported here applies to the following samples: **Method:** SW846 8011

MC27977-1, MC27977-2, MC27977-3, MC27977-4, MC27977-5, MC27977-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
96-12-8	1,2-Dibromo-3-chloropropane	0.071	0.062	87	60-140
106-93-4	1,2-Dibromoethane	0.071	0.067	94	60-140

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	Bromofluorobenzene (S)	82%	36-173%
460-00-4	Bromofluorobenzene (S)	73%	36-173%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27977
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36715-MS	BK34387.D	1	01/31/14	NK	01/30/14	OP36715	GBK1134
OP36715-MSD	BK34388.D	1	01/31/14	NK	01/30/14	OP36715	GBK1134
MC27977-1	BK34389.D	1	01/31/14	NK	01/30/14	OP36715	GBK1134

The QC reported here applies to the following samples: **Method:** SW846 8011

MC27977-1, MC27977-2, MC27977-3, MC27977-4, MC27977-5, MC27977-7

CAS No.	Compound	MC27977-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
96-12-8	1,2-Dibromo-3-chloropropane	ND		0.0686	0.069	101	0.067	0.058	87	17	64-141/29
106-93-4	1,2-Dibromoethane	ND		0.0686	0.065	95	0.067	0.065	97	0	63-163/27

CAS No.	Surrogate Recoveries	MS	MSD	MC27977-1	Limits
460-00-4	Bromofluorobenzene (S)	84%	86%	73%	36-173%
460-00-4	Bromofluorobenzene (S)	87%	76%	78%	36-173%

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: MC27977
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Method: SW846 8011 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]
MC27977-1	BK34389.D	73	78
MC27977-2	BK34393.D	96	87
MC27977-3	BK34394.D	91	82
MC27977-4	BK34396.D	93	95
MC27977-5	BK34397.D	94	71
MC27977-7	BK34398.D	79	67
OP36715-BS	BK34386.D	82	73
OP36715-MB	BK34385.D	92	79
OP36715-MS	BK34387.D	84	87
OP36715-MSD	BK34388.D	86	76

Surrogate Compounds	Recovery Limits
S1 = Bromofluorobenzene (S)	36-173%

(a) Recovery from GC signal #2
(b) Recovery from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC27977
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	GBK1134-ICC1134	**Injection Date:**	01/31/14
Lab File ID:	BK34380.D	**Injection Time:**	09:07
Instrument ID:	GCBK	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.39	4.45

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
ZZZZZZ	BK34383A.D	01/31/14	10:15	4.39	4.45
OP36715-MB	BK34385.D	01/31/14	11:01	4.39	4.45
OP36715-BS	BK34386.D	01/31/14	11:23	4.39	4.45
OP36715-MS	BK34387.D	01/31/14	11:46	4.39	4.45
OP36715-MSD	BK34388.D	01/31/14	12:09	4.39	4.45
MC27977-1	BK34389.D	01/31/14	12:32	4.39	4.45
ZZZZZZ	BK34390.D	01/31/14	12:55	4.38	4.46
ZZZZZZ	BK34391.D	01/31/14	13:18	4.40	4.47
ZZZZZZ	BK34392.D	01/31/14	13:41	4.39	4.46
MC27977-2	BK34393.D	01/31/14	14:12	4.39	4.45
MC27977-3	BK34394.D	01/31/14	14:35	4.39	4.45

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC27977
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	GBK1134-CC1134	**Injection Date:**	01/31/14
Lab File ID:	BK34395.D	**Injection Time:**	14:58
Instrument ID:	GCBK	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.39	4.45

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
MC27977-4	BK34396.D	01/31/14	15:21	4.39	4.45
MC27977-5	BK34397.D	01/31/14	15:44	4.39	4.45
MC27977-7	BK34398.D	01/31/14	16:07	4.39	4.45
ZZZZZZ	BK34399.D	01/31/14	16:30	4.39	4.45
ZZZZZZ	BK34400.D	01/31/14	16:53	4.39	4.45
ZZZZZZ	BK34401.D	01/31/14	17:16	4.39	4.45
ZZZZZZ	BK34402.D	01/31/14	17:39	4.39	4.45
ZZZZZZ	BK34403.D	01/31/14	18:01	4.39	4.45
ZZZZZZ	BK34404.D	01/31/14	18:24	4.39	4.45
ZZZZZZ	BK34405.D	01/31/14	18:47	4.39	4.45

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

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Automated Report

Technical Report for

Shell Oil

URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana,

SGS Accutest Job Number: MC28017

Sampling Date: 01/30/14



Report to:

AECOM, INC.

Melissa.mansker@aecom.com

ATTN: Melissa Mansker

Total number of pages in report: 151

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

H. (Brad) Madadian
Lab Director

Client Service contact: Jeremy Vienneau 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO (MA00136) MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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SGS ACCUTEST

November 2, 2016

AECOM
1001 Highlands Plaza Drive West Suite 300
St. Louis, MO 63110

RE: SGS Accutest Job # MC28017

Dear Elizabeth Kunkel

As you are aware, SGS Accutest Inc. - Marlboroug has been conducting an extensive review of data associated with some historical Gas Chromatography-Mass Spectroscopy volatiles analyses. As a result of this review it was determined that some revisions of the original test report for this job were needed. These corrections have been incorporated into the revised report.

Please be assured that corrective actions have been put in place to address this matter and prevent a recurrence.

We apologize for any inconvenience that this issue may have caused. Please don't hesitate to contact us if we can be of further assistance.

Sincerely



H. (Brad) Madadian

Regional Laboratory Director
SGS Accutest Inc. - Marlborough

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Sample Summary

Shell Oil

Job No: MC28017

URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC28017-1	01/30/14	09:30	LRKH	01/31/14	AQ	Ground Water	MW4-ROX-013014
MC28017-2	01/30/14	13:20	LRKH	01/31/14	AQ	Ground Water	MW7-ROX-013014
MC28017-3	01/30/14	14:05	LRKH	01/31/14	AQ	Ground Water	MW8-ROX-013014
MC28017-4	01/30/14	14:05	LRKH	01/31/14	AQ	Ground Water	MW8-ROX-013014-DUP
MC28017-5	01/30/14	00:00	LRKH	01/31/14	AQ	Trip Blank Water	TB-ROX-013014-HCL
MC28017-6	01/30/14	00:00	LRKH	01/31/14	AQ	Trip Blank Water	TB-ROX-013014-ST

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: She O **Job No** MC280 7

Site: URSMOSTL:Roxana Q 4 GW/ 2 562973 0300 900 South Centra **Report Date** /2/20 6 2:04:2 PM

4 Samp e(s), 2 Tr p B ank(s) were co ected on 0 /30/20 4 and were rece ved at SGS Accutest New Eng and on 0 /3 /20 4 proper y preserved, at 0 8 Deg C and ntact These Samp es rece ved a job number of MC280 7 A st ng of the Laboratory Samp e ID, C ent Samp e ID and dates of co ect on are presented n the Resu ts Summary Sect on of th s report -Ch orohexane, Benzeneth o ,
D benz(a,h)acr d ne, Indene, and Qu no ne were searched n the brary search and repo ted on y f detect ons were found

Except as noted be ow, a method spec f ed ca brat ons and qua ty contro performance cr ter a were met for th s job For more nformat on, p ease refer to QC summary pages

Volatiles by GCMS By Method SW846 8260C

Matrix: AQ **Batch ID:** MSV 046

- A samp es were ana yzed w th n the recommended method ho d ng t me
- A method b anks for th s batch meet method spec f c cr ter a
- Samp e(s) MC28 3-4MS, MC28 3-4MSD were used as the QC samp es nd cated
- B ank Sp ke Recovery(s) for Ch oroethane are outs de contro m ts
- Matr x Sp ke Recovery(s) for 2-Butanone (MEK), 2-Ch oroethy v ny ether, Acetone are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference
- Matr x Sp ke Dup cate Recove y(s) for 2-Butanone (MEK), 2-Ch oroethy v ny ether, 2-Hexanone, Acetone are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference
- ,4-D oxane, Carbon d su f de, D ch orod f uoromethane: Cont nu ng Ca brat on outs de of acceptance cr ter a Samp e resu t may be b ased ow

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP36729

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC27800- 8MS, MC27800- 8MSD were used as the QC samp es nd cated
- Samp e(s) MC280 7- , MC280 7-2, MC280 7-3, MC280 7-4 have compound(s) reported w th a “B” qua f er, nd cat ng ana yte s found n the assoc ated method b ank
- MC280 7- : Conf rmat on un for surrogate recover es
- MC280 7- for Pheno -d5: Outs de contro m ts due to poss b e matr x nterference Conf rmed by re-extract on/reana ys s

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP36730

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- A method b anks for th s batch meet method spec f c cr ter a
- Samp e(s) MC27800- 9MS, MC27800- 9MSD were used as the QC samp es nd cated

Volatiles by GC By Method SW846 8011

Matrix: AQ **Batch ID:** OP36754

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC28000-5MS, MC28000-5MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a

SGS Accutest New Eng and cert f es that a ana ys s were performed w th n method spec f cat on It s further recommended that th s report to be used n ts ent rety The Laborato y D rector for SGS Accutest New Eng and or ass gnee as ver f ed by the s gnature on the cover page has author zed the re ease of th s repo t(MC280 7)

Summary of Hits

Job Number: MC28017
Account: Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL
Collected: 01/30/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC28017-1	MW4-ROX-013014					
Benzene		2010	50	45	ug/l	SW846 8260C
n-Butylbenzene		0.58 J	5.0	0.54	ug/l	SW846 8260C
Ethylbenzene		0.48 J	1.0	0.38	ug/l	SW846 8260C
Isopropylbenzene		2.1 J	5.0	0.64	ug/l	SW846 8260C
n-Propylbenzene		2.6 J	5.0	0.59	ug/l	SW846 8260C
Toluene		3.7	1.0	0.46	ug/l	SW846 8260C
m,p-Xylene		13.2	1.0	0.91	ug/l	SW846 8260C
o-Xylene		4.9	1.0	0.41	ug/l	SW846 8260C
Xylene (total)		18.1	1.0	0.41	ug/l	SW846 8260C
Phenol		16.4	5.4	0.55	ug/l	SW846 8270D
Di-n-butyl phthalate		1.3 JB	5.4	0.42	ug/l	SW846 8270D
1-Methylnaphthalene		0.27	0.22	0.054	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.22	0.22	0.080	ug/l	SW846 8270D BY SIM
Phenanthrene		0.022 J	0.054	0.014	ug/l	SW846 8270D BY SIM
MC28017-2	MW7-ROX-013014					
Benzene		1490000	13000	11000	ug/l	SW846 8260C
Phenol		31.4	5.0	0.51	ug/l	SW846 8270D
Di-n-butyl phthalate		0.70 JB	5.0	0.39	ug/l	SW846 8270D
Acenaphthene		0.28	0.10	0.069	ug/l	SW846 8270D BY SIM
Anthracene		0.29	0.10	0.092	ug/l	SW846 8270D BY SIM
Fluorene		0.21	0.10	0.099	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene		5.9	0.20	0.050	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		8.3	0.20	0.074	ug/l	SW846 8270D BY SIM
Phenanthrene		0.29	0.050	0.013	ug/l	SW846 8270D BY SIM
MC28017-3	MW8-ROX-013014					
Benzene		721000	1300	1100	ug/l	SW846 8260C
Methyl Tert Butyl Ether		1920 J	2500	1100	ug/l	SW846 8260C
2,4-Dimethylphenol		12.4	10	1.2	ug/l	SW846 8270D
2-Methylphenol		12.8	10	1.3	ug/l	SW846 8270D
3&4-Methylphenol		19.8	10	2.1	ug/l	SW846 8270D
Phenol		105	5.1	0.52	ug/l	SW846 8270D
Dibenzofuran		0.50 J	2.0	0.16	ug/l	SW846 8270D
Di-n-butyl phthalate		1.1 JB	5.1	0.40	ug/l	SW846 8270D
bis(2-Ethylhexyl)phthalate		0.53 J	2.0	0.50	ug/l	SW846 8270D
Acenaphthene		0.20	0.10	0.070	ug/l	SW846 8270D BY SIM
Acenaphthylene		0.089 J	0.10	0.051	ug/l	SW846 8270D BY SIM
Fluorene		0.54	0.10	0.10	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene		13.7	0.20	0.051	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		12.3	0.20	0.076	ug/l	SW846 8270D BY SIM

Summary of Hits

Job Number: MC28017
Account: Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL
Collected: 01/30/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Phenanthrene		0.18	0.051	0.013	ug/l	SW846 8270D BY SIM
MC28017-4	**MW8-ROX-013014-DUP**					
Benzene		748000	1300	1100	ug/l	SW846 8260C
Methyl Tert Butyl Ether		1990 J	2500	1100	ug/l	SW846 8260C
2,4-Dimethylphenol		12.1	11	1.2	ug/l	SW846 8270D
2-Methylphenol		12.9	11	1.4	ug/l	SW846 8270D
3&4-Methylphenol		19.0	11	2.2	ug/l	SW846 8270D
Phenol		135	5.4	0.56	ug/l	SW846 8270D
Dibenzofuran		0.53 J	2.2	0.17	ug/l	SW846 8270D
Di-n-butyl phthalate		0.92 JB	5.4	0.42	ug/l	SW846 8270D
bis(2-Ethylhexyl)phthalate		0.72 J	2.2	0.53	ug/l	SW846 8270D
Acenaphthene		0.21	0.11	0.075	ug/l	SW846 8270D BY SIM
Acenaphthylene		0.083 J	0.11	0.054	ug/l	SW846 8270D BY SIM
Fluorene		0.52	0.11	0.11	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene		13.6	0.22	0.054	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		12.3	0.22	0.081	ug/l	SW846 8270D BY SIM
Phenanthrene		0.19	0.054	0.014	ug/l	SW846 8270D BY SIM
MC28017-5	**TB-ROX-013014-HCL**					
No hits reported in this sample.						
MC28017-6	**TB-ROX-013014-ST**					
No hits reported in this sample.						

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW4-ROX-013014		
Lab Sample ID:	MC28017-1	**Date Sampled:**	01/30/14
Matrix:	AQ - Ground Water	**Date Received:**	01/31/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V27761.D	1	02/10/14	AMY	n/a	n/a	MSV1046
Run #2	V27767.D	100	02/10/14	AMY	n/a	n/a	MSV1046

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	2010 [a]	50	45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	4.6	ug/l	
104-51-8	n-Butylbenzene	0.58	5.0	0.54	ug/l	J
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide [b]	ND	5.0	0.77	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane [b]	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW4-ROX-013014		
Lab Sample ID:	MC28017-1	**Date Sampled:**	01/30/14
Matrix:	AQ - Ground Water	**Date Received:**	01/31/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
123-91-1	1,4-Dioxane [b]	ND	25	16	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	0.48	1.0	0.38	ug/l	J
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	3.9	ug/l	
98-82-8	Isopropylbenzene	2.1	5.0	0.64	ug/l	J
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	2.6	5.0	0.59	ug/l	J
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	3.7	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	13.2	1.0	0.91	ug/l	
95-47-6	o-Xylene	4.9	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	18.1	1.0	0.41	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW4-ROX-013014		
Lab Sample ID:	MC28017-1	**Date Sampled:**	01/30/14
Matrix:	AQ - Ground Water	**Date Received:**	01/31/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%	106%	70-130%
2037-26-5	Toluene-D8	93%	97%	70-130%
460-00-4	4-Bromofluorobenzene	109%	103%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Result is from Run# 2
(b) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW4-ROX-013014		
Lab Sample ID:	MC28017-1	**Date Sampled:**	01/30/14
Matrix:	AQ - Ground Water	**Date Received:**	01/31/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W17542.D	1	02/03/14	KR	01/31/14	OP36729	MSW770
Run #2 [a]	W17607.D	1	02/06/14	KR	01/31/14	OP36729	MSW773

	Initial Volume	Final Volume
Run #1	930 ml	1.0 ml
Run #2	930 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.4	0.41	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.53	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.35	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	1.3	ug/l	
95-48-7	2-Methylphenol	ND	11	1.4	ug/l	
	3&4-Methylphenol	ND	11	2.2	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.54	ug/l	
100-02-7	4-Nitrophenol	ND	22	0.63	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.3	ug/l	
108-95-2	Phenol	16.4	5.4	0.55	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.62	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.34	ug/l	
62-53-3	Aniline	ND	11	0.69	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.4	0.22	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.4	0.92	ug/l	
100-51-6	Benzyl Alcohol	ND	11	0.62	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.4	0.99	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.27	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.4	0.23	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.4	0.25	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.4	0.14	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.4	0.21	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.4	0.70	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.73	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.69	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.4	0.54	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.17	ug/l	
84-74-2	Di-n-butyl phthalate	1.3	5.4	0.42	ug/l	JB
117-84-0	Di-n-octyl phthalate	ND	5.4	0.47	ug/l	

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Report of Analysis

Client Sample ID:	MW4-ROX-013014		
Lab Sample ID:	MC28017-1	**Date Sampled:**	01/30/14
Matrix:	AQ - Ground Water	**Date Received:**	01/31/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.4	0.54	ug/l	
131-11-3	Dimethyl phthalate	ND	5.4	0.54	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.53	ug/l	
118-74-1	Hexachlorobenzene	ND	5.4	0.32	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.7	ug/l	
67-72-1	Hexachloroethane	ND	5.4	0.47	ug/l	
78-59-1	Isophorone	ND	5.4	0.22	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.30	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.54	ug/l	
100-01-6	4-Nitroaniline	ND	11	4.7	ug/l	
98-95-3	Nitrobenzene	ND	5.4	0.27	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.4	0.54	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.4	0.87	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.4	0.58	ug/l	
110-86-1	Pyridine	ND	11	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	16%	16%	15-110%
4165-62-2	Phenol-d5	13% [b]	12% [b]	15-110%
118-79-6	2,4,6-Tribromophenol	57%	58%	15-110%
4165-60-0	Nitrobenzene-d5	78%	79%	30-130%
321-60-8	2-Fluorobiphenyl	74%	74%	30-130%
1718-51-0	Terphenyl-d14	94%	95%	30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

(a) Confirmation run for surrogate recoveries.
(b) Outside control limits due to possible matrix interference. Confirmed by re-extraction/reanalysis.

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW4-ROX-013014		
Lab Sample ID:	MC28017-1	**Date Sampled:**	01/30/14
Matrix:	AQ - Ground Water	**Date Received:**	01/31/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I87238.D	1	02/03/14	KR	01/31/14	OP36730	MSI3243
Run #2							

	Initial Volume	Final Volume
Run #1	930 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.11	0.074	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.053	ug/l	
120-12-7	Anthracene	ND	0.11	0.099	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.054	0.021	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.031	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.054	0.034	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.029	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.042	ug/l	
218-01-9	Chrysene	ND	0.11	0.026	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.034	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.044	ug/l	
86-73-7	Fluorene	ND	0.11	0.11	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.033	ug/l	
90-12-0	1-Methylnaphthalene	0.27	0.22	0.054	ug/l	
91-57-6	2-Methylnaphthalene	0.22	0.22	0.080	ug/l	
85-01-8	Phenanthrene	0.022	0.054	0.014	ug/l	J
129-00-0	Pyrene	ND	0.11	0.041	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	81%		30-130%
321-60-8	2-Fluorobiphenyl	68%		30-130%
1718-51-0	Terphenyl-d14	89%		30-130%

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW4-ROX-013014		
Lab Sample ID:	MC28017-1	**Date Sampled:**	01/30/14
Matrix:	AQ - Ground Water	**Date Received:**	01/31/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK34508.D	1	02/04/14	NK	02/03/14	OP36754	GBK1140
Run #2							

	Initial Volume	Final Volume
Run #1	36.4 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.014	0.0052	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	121%		36-173%
460-00-4	Bromofluorobenzene (S)	127%		36-173%

ND = Not detected MDL = Method Detection Limit
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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW7-ROX-013014		
Lab Sample ID:	MC28017-2	**Date Sampled:**	01/30/14
Matrix:	AQ - Ground Water	**Date Received:**	01/31/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V27768.D	2500	02/10/14	AMY	n/a	n/a	MSV1046
Run #2	V27762.D	25000	02/10/14	AMY	n/a	n/a	MSV1046

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25000	6900	ug/l	
107-02-8	Acrolein	ND	63000	16000	ug/l	
107-13-1	Acrylonitrile	ND	13000	8800	ug/l	
71-43-2	Benzene	1490000 [a]	13000	11000	ug/l	
108-86-1	Bromobenzene	ND	13000	1100	ug/l	
74-97-5	Bromochloromethane	ND	13000	1600	ug/l	
75-27-4	Bromodichloromethane	ND	2500	830	ug/l	
75-25-2	Bromoform	ND	2500	1000	ug/l	
74-83-9	Bromomethane	ND	5000	3800	ug/l	
78-93-3	2-Butanone (MEK)	ND	13000	11000	ug/l	
104-51-8	n-Butylbenzene	ND	13000	1400	ug/l	
135-98-8	sec-Butylbenzene	ND	13000	1500	ug/l	
98-06-6	tert-Butylbenzene	ND	13000	2200	ug/l	
75-15-0	Carbon disulfide [b]	ND	13000	1900	ug/l	
56-23-5	Carbon tetrachloride	ND	2500	1500	ug/l	
108-90-7	Chlorobenzene	ND	2500	1200	ug/l	
75-00-3	Chloroethane	ND	5000	2100	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	13000	8200	ug/l	
67-66-3	Chloroform	ND	2500	1200	ug/l	
74-87-3	Chloromethane	ND	5000	3600	ug/l	
95-49-8	o-Chlorotoluene	ND	13000	1400	ug/l	
106-43-4	p-Chlorotoluene	ND	13000	1200	ug/l	
124-48-1	Dibromochloromethane	ND	2500	820	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	2500	870	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	2500	750	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2500	660	ug/l	
75-71-8	Dichlorodifluoromethane [b]	ND	5000	3000	ug/l	
75-34-3	1,1-Dichloroethane	ND	2500	930	ug/l	
107-06-2	1,2-Dichloroethane	ND	2500	880	ug/l	
75-35-4	1,1-Dichloroethene	ND	2500	1700	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	2500	1300	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	2500	1400	ug/l	

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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW7-ROX-013014		
Lab Sample ID:	MC28017-2	**Date Sampled:**	01/30/14
Matrix:	AQ - Ground Water	**Date Received:**	01/31/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	5000	1100	ug/l	
142-28-9	1,3-Dichloropropane	ND	13000	2400	ug/l	
594-20-7	2,2-Dichloropropane	ND	13000	3100	ug/l	
563-58-6	1,1-Dichloropropene	ND	13000	1600	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1300	540	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1300	710	ug/l	
123-91-1	1,4-Dioxane [b]	ND	63000	39000	ug/l	
97-63-2	Ethyl methacrylate	ND	13000	2000	ug/l	
100-41-4	Ethylbenzene	ND	2500	940	ug/l	
87-68-3	Hexachlorobutadiene	ND	13000	3100	ug/l	
591-78-6	2-Hexanone	ND	13000	9700	ug/l	
98-82-8	Isopropylbenzene	ND	13000	1600	ug/l	
99-87-6	p-Isopropyltoluene	ND	13000	1400	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2500	1100	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	13000	3200	ug/l	
74-95-3	Methylene bromide	ND	13000	1100	ug/l	
75-09-2	Methylene chloride	ND	5000	1000	ug/l	
91-20-3	Naphthalene	ND	13000	2000	ug/l	
103-65-1	n-Propylbenzene	ND	13000	1500	ug/l	
100-42-5	Styrene	ND	13000	1200	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2500	1100	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1300	1000	ug/l	
127-18-4	Tetrachloroethene	ND	2500	1500	ug/l	
108-88-3	Toluene	ND	2500	1200	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	13000	1900	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	13000	1100	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2500	2300	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2500	1200	ug/l	
79-01-6	Trichloroethene	ND	2500	1100	ug/l	
75-69-4	Trichlorofluoromethane	ND	2500	1500	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	13000	1700	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	13000	1200	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	13000	2700	ug/l	
108-05-4	Vinyl Acetate	ND	13000	3300	ug/l	
75-01-4	Vinyl chloride	ND	2500	1500	ug/l	
	m,p-Xylene	ND	2500	2300	ug/l	
95-47-6	o-Xylene	ND	2500	1000	ug/l	
1330-20-7	Xylene (total)	ND	2500	1000	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW7-ROX-013014		
Lab Sample ID:	MC28017-2	**Date Sampled:**	01/30/14
Matrix:	AQ - Ground Water	**Date Received:**	01/31/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%	105%	70-130%
2037-26-5	Toluene-D8	95%	95%	70-130%
460-00-4	4-Bromofluorobenzene	104%	105%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Result is from Run# 2
(b) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW7-ROX-013014		
Lab Sample ID:	MC28017-2	**Date Sampled:**	01/30/14
Matrix:	AQ - Ground Water	**Date Received:**	01/31/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W17543.D	1	02/03/14	KR	01/31/14	OP36729	MSW770
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.38	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.49	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.33	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	ND	10	1.3	ug/l	
	3&4-Methylphenol	ND	10	2.0	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.50	ug/l	
100-02-7	4-Nitrophenol	ND	20	0.58	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	31.4	5.0	0.51	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.57	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.32	ug/l	
62-53-3	Aniline	ND	10	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.20	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.85	ug/l	
100-51-6	Benzyl Alcohol	ND	10	0.57	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.92	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.25	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.21	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.23	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.13	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.20	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.65	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.68	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.64	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.50	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	0.70	5.0	0.39	ug/l	JB
117-84-0	Di-n-octyl phthalate	ND	5.0	0.43	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW7-ROX-013014		
Lab Sample ID:	MC28017-2	**Date Sampled:**	01/30/14
Matrix:	AQ - Ground Water	**Date Received:**	01/31/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.0	0.50	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.50	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.49	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.30	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.5	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.44	ug/l	
78-59-1	Isophorone	ND	5.0	0.20	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.50	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.3	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.25	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.0	0.50	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.81	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.54	ug/l	
110-86-1	Pyridine	ND	10	0.52	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%		15-110%
4165-62-2	Phenol-d5	28%		15-110%
118-79-6	2,4,6-Tribromophenol	87%		15-110%
4165-60-0	Nitrobenzene-d5	68%		30-130%
321-60-8	2-Fluorobiphenyl	68%		30-130%
1718-51-0	Terphenyl-d14	91%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
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E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW7-ROX-013014		
Lab Sample ID:	MC28017-2	**Date Sampled:**	01/30/14
Matrix:	AQ - Ground Water	**Date Received:**	01/31/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I87239.D	1	02/03/14	KR	01/31/14	OP36730	MSI3243
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.28	0.10	0.069	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.050	ug/l	
120-12-7	Anthracene	0.29	0.10	0.092	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	0.020	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.029	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	0.032	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.027	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.039	ug/l	
218-01-9	Chrysene	ND	0.10	0.024	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.032	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.041	ug/l	
86-73-7	Fluorene	0.21	0.10	0.099	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.031	ug/l	
90-12-0	1-Methylnaphthalene	5.9	0.20	0.050	ug/l	
91-57-6	2-Methylnaphthalene	8.3	0.20	0.074	ug/l	
85-01-8	Phenanthrene	0.29	0.050	0.013	ug/l	
129-00-0	Pyrene	ND	0.10	0.038	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	70%		30-130%
321-60-8	2-Fluorobiphenyl	63%		30-130%
1718-51-0	Terphenyl-d14	89%		30-130%

ND = Not detected MDL = Method Detection Limit
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J = Indicates an estimated value
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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW7-ROX-013014		
Lab Sample ID:	MC28017-2	**Date Sampled:**	01/30/14
Matrix:	AQ - Ground Water	**Date Received:**	01/31/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK34509.D	1	02/04/14	NK	02/03/14	OP36754	GBK1140
Run #2							

	Initial Volume	Final Volume
Run #1	35.8 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0053	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	89%		36-173%
460-00-4	Bromofluorobenzene (S)	103%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW8-ROX-013014		
Lab Sample ID:	MC28017-3	**Date Sampled:**	01/30/14
Matrix:	AQ - Ground Water	**Date Received:**	01/31/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V27769.D	2500	02/10/14	AMY	n/a	n/a	MSV1046
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25000	6900	ug/l	
107-02-8	Acrolein	ND	63000	16000	ug/l	
107-13-1	Acrylonitrile	ND	13000	8800	ug/l	
71-43-2	Benzene	721000	1300	1100	ug/l	
108-86-1	Bromobenzene	ND	13000	1100	ug/l	
74-97-5	Bromochloromethane	ND	13000	1600	ug/l	
75-27-4	Bromodichloromethane	ND	2500	830	ug/l	
75-25-2	Bromoform	ND	2500	1000	ug/l	
74-83-9	Bromomethane	ND	5000	3800	ug/l	
78-93-3	2-Butanone (MEK)	ND	13000	11000	ug/l	
104-51-8	n-Butylbenzene	ND	13000	1400	ug/l	
135-98-8	sec-Butylbenzene	ND	13000	1500	ug/l	
98-06-6	tert-Butylbenzene	ND	13000	2200	ug/l	
75-15-0	Carbon disulfide [a]	ND	13000	1900	ug/l	
56-23-5	Carbon tetrachloride	ND	2500	1500	ug/l	
108-90-7	Chlorobenzene	ND	2500	1200	ug/l	
75-00-3	Chloroethane	ND	5000	2100	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	13000	8200	ug/l	
67-66-3	Chloroform	ND	2500	1200	ug/l	
74-87-3	Chloromethane	ND	5000	3600	ug/l	
95-49-8	o-Chlorotoluene	ND	13000	1400	ug/l	
106-43-4	p-Chlorotoluene	ND	13000	1200	ug/l	
124-48-1	Dibromochloromethane	ND	2500	820	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	2500	870	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	2500	750	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2500	660	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	5000	3000	ug/l	
75-34-3	1,1-Dichloroethane	ND	2500	930	ug/l	
107-06-2	1,2-Dichloroethane	ND	2500	880	ug/l	
75-35-4	1,1-Dichloroethene	ND	2500	1700	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	2500	1300	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	2500	1400	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW8-ROX-013014		
Lab Sample ID:	MC28017-3	**Date Sampled:**	01/30/14
Matrix:	AQ - Ground Water	**Date Received:**	01/31/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	5000	1100	ug/l	
142-28-9	1,3-Dichloropropane	ND	13000	2400	ug/l	
594-20-7	2,2-Dichloropropane	ND	13000	3100	ug/l	
563-58-6	1,1-Dichloropropene	ND	13000	1600	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1300	540	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1300	710	ug/l	
123-91-1	1,4-Dioxane [a]	ND	63000	39000	ug/l	
97-63-2	Ethyl methacrylate	ND	13000	2000	ug/l	
100-41-4	Ethylbenzene	ND	2500	940	ug/l	
87-68-3	Hexachlorobutadiene	ND	13000	3100	ug/l	
591-78-6	2-Hexanone	ND	13000	9700	ug/l	
98-82-8	Isopropylbenzene	ND	13000	1600	ug/l	
99-87-6	p-Isopropyltoluene	ND	13000	1400	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1920	2500	1100	ug/l	J
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	13000	3200	ug/l	
74-95-3	Methylene bromide	ND	13000	1100	ug/l	
75-09-2	Methylene chloride	ND	5000	1000	ug/l	
91-20-3	Naphthalene	ND	13000	2000	ug/l	
103-65-1	n-Propylbenzene	ND	13000	1500	ug/l	
100-42-5	Styrene	ND	13000	1200	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2500	1100	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1300	1000	ug/l	
127-18-4	Tetrachloroethene	ND	2500	1500	ug/l	
108-88-3	Toluene	ND	2500	1200	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	13000	1900	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	13000	1100	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2500	2300	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2500	1200	ug/l	
79-01-6	Trichloroethene	ND	2500	1100	ug/l	
75-69-4	Trichlorofluoromethane	ND	2500	1500	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	13000	1700	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	13000	1200	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	13000	2700	ug/l	
108-05-4	Vinyl Acetate	ND	13000	3300	ug/l	
75-01-4	Vinyl chloride	ND	2500	1500	ug/l	
	m,p-Xylene	ND	2500	2300	ug/l	
95-47-6	o-Xylene	ND	2500	1000	ug/l	
1330-20-7	Xylene (total)	ND	2500	1000	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW8-ROX-013014		
Lab Sample ID:	MC28017-3	**Date Sampled:**	01/30/14
Matrix:	AQ - Ground Water	**Date Received:**	01/31/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		70-130%
2037-26-5	Toluene-D8	94%		70-130%
460-00-4	4-Bromofluorobenzene	103%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW8-ROX-013014		
Lab Sample ID:	MC28017-3	**Date Sampled:**	01/30/14
Matrix:	AQ - Ground Water	**Date Received:**	01/31/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W17544.D	1	02/03/14	KR	01/31/14	OP36729	MSW770
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.1	0.39	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.50	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.33	ug/l	
105-67-9	2,4-Dimethylphenol	12.4	10	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	12.8	10	1.3	ug/l	
	3&4-Methylphenol	19.8	10	2.1	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.51	ug/l	
100-02-7	4-Nitrophenol	ND	20	0.60	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	105	5.1	0.52	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.58	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.32	ug/l	
62-53-3	Aniline	ND	10	0.65	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.1	0.21	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.1	0.87	ug/l	
100-51-6	Benzyl Alcohol	ND	10	0.59	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.1	0.94	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.26	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.1	0.21	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.1	0.24	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.1	0.14	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.1	0.20	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.1	0.67	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.69	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.65	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.1	0.51	ug/l	
132-64-9	Dibenzofuran	0.50	2.0	0.16	ug/l	J
84-74-2	Di-n-butyl phthalate	1.1	5.1	0.40	ug/l	JB
117-84-0	Di-n-octyl phthalate	ND	5.1	0.44	ug/l	

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E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW8-ROX-013014		
Lab Sample ID:	MC28017-3	**Date Sampled:**	01/30/14
Matrix:	AQ - Ground Water	**Date Received:**	01/31/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.1	0.51	ug/l	
131-11-3	Dimethyl phthalate	ND	5.1	0.51	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	0.53	2.0	0.50	ug/l	J
118-74-1	Hexachlorobenzene	ND	5.1	0.30	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.6	ug/l	
67-72-1	Hexachloroethane	ND	5.1	0.45	ug/l	
78-59-1	Isophorone	ND	5.1	0.20	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.51	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.4	ug/l	
98-95-3	Nitrobenzene	ND	5.1	0.25	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.1	0.51	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.1	0.82	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.1	0.55	ug/l	
110-86-1	Pyridine	ND	10	0.53	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	47%		15-110%
4165-62-2	Phenol-d5	35%		15-110%
118-79-6	2,4,6-Tribromophenol	99%		15-110%
4165-60-0	Nitrobenzene-d5	75%		30-130%
321-60-8	2-Fluorobiphenyl	73%		30-130%
1718-51-0	Terphenyl-d14	95%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW8-ROX-013014		
Lab Sample ID:	MC28017-3	**Date Sampled:**	01/30/14
Matrix:	AQ - Ground Water	**Date Received:**	01/31/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I87240.D	1	02/03/14	KR	01/31/14	OP36730	MSI3243
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.20	0.10	0.070	ug/l	
208-96-8	Acenaphthylene	0.089	0.10	0.051	ug/l	J
120-12-7	Anthracene	ND	0.10	0.094	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.051	0.020	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.029	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.051	0.032	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.027	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.039	ug/l	
218-01-9	Chrysene	ND	0.10	0.024	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.033	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.041	ug/l	
86-73-7	Fluorene	0.54	0.10	0.10	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.031	ug/l	
90-12-0	1-Methylnaphthalene	13.7	0.20	0.051	ug/l	
91-57-6	2-Methylnaphthalene	12.3	0.20	0.076	ug/l	
85-01-8	Phenanthrene	0.18	0.051	0.013	ug/l	
129-00-0	Pyrene	ND	0.10	0.039	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	77%		30-130%
321-60-8	2-Fluorobiphenyl	67%		30-130%
1718-51-0	Terphenyl-d14	91%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW8-ROX-013014		
Lab Sample ID:	MC28017-3	**Date Sampled:**	01/30/14
Matrix:	AQ - Ground Water	**Date Received:**	01/31/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK34510.D	1	02/04/14	NK	02/03/14	OP36754	GBK1140
Run #2							

	Initial Volume	Final Volume
Run #1	36.4 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.014	0.0052	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	96%		36-173%
460-00-4	Bromofluorobenzene (S)	124%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW8-ROX-013014-DUP		
Lab Sample ID:	MC28017-4	**Date Sampled:**	01/30/14
Matrix:	AQ - Ground Water	**Date Received:**	01/31/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V27770.D	2500	02/10/14	AMY	n/a	n/a	MSV1046
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25000	6900	ug/l	
107-02-8	Acrolein	ND	63000	16000	ug/l	
107-13-1	Acrylonitrile	ND	13000	8800	ug/l	
71-43-2	Benzene	748000	1300	1100	ug/l	
108-86-1	Bromobenzene	ND	13000	1100	ug/l	
74-97-5	Bromochloromethane	ND	13000	1600	ug/l	
75-27-4	Bromodichloromethane	ND	2500	830	ug/l	
75-25-2	Bromoform	ND	2500	1000	ug/l	
74-83-9	Bromomethane	ND	5000	3800	ug/l	
78-93-3	2-Butanone (MEK)	ND	13000	11000	ug/l	
104-51-8	n-Butylbenzene	ND	13000	1400	ug/l	
135-98-8	sec-Butylbenzene	ND	13000	1500	ug/l	
98-06-6	tert-Butylbenzene	ND	13000	2200	ug/l	
75-15-0	Carbon disulfide [a]	ND	13000	1900	ug/l	
56-23-5	Carbon tetrachloride	ND	2500	1500	ug/l	
108-90-7	Chlorobenzene	ND	2500	1200	ug/l	
75-00-3	Chloroethane	ND	5000	2100	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	13000	8200	ug/l	
67-66-3	Chloroform	ND	2500	1200	ug/l	
74-87-3	Chloromethane	ND	5000	3600	ug/l	
95-49-8	o-Chlorotoluene	ND	13000	1400	ug/l	
106-43-4	p-Chlorotoluene	ND	13000	1200	ug/l	
124-48-1	Dibromochloromethane	ND	2500	820	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	2500	870	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	2500	750	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2500	660	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	5000	3000	ug/l	
75-34-3	1,1-Dichloroethane	ND	2500	930	ug/l	
107-06-2	1,2-Dichloroethane	ND	2500	880	ug/l	
75-35-4	1,1-Dichloroethene	ND	2500	1700	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	2500	1300	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	2500	1400	ug/l	

ND = Not detected MDL = Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW8-ROX-013014-DUP		
Lab Sample ID:	MC28017-4	**Date Sampled:**	01/30/14
Matrix:	AQ - Ground Water	**Date Received:**	01/31/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	5000	1100	ug/l	
142-28-9	1,3-Dichloropropane	ND	13000	2400	ug/l	
594-20-7	2,2-Dichloropropane	ND	13000	3100	ug/l	
563-58-6	1,1-Dichloropropene	ND	13000	1600	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1300	540	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1300	710	ug/l	
123-91-1	1,4-Dioxane [a]	ND	63000	39000	ug/l	
97-63-2	Ethyl methacrylate	ND	13000	2000	ug/l	
100-41-4	Ethylbenzene	ND	2500	940	ug/l	
87-68-3	Hexachlorobutadiene	ND	13000	3100	ug/l	
591-78-6	2-Hexanone	ND	13000	9700	ug/l	
98-82-8	Isopropylbenzene	ND	13000	1600	ug/l	
99-87-6	p-Isopropyltoluene	ND	13000	1400	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1990	2500	1100	ug/l	J
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	13000	3200	ug/l	
74-95-3	Methylene bromide	ND	13000	1100	ug/l	
75-09-2	Methylene chloride	ND	5000	1000	ug/l	
91-20-3	Naphthalene	ND	13000	2000	ug/l	
103-65-1	n-Propylbenzene	ND	13000	1500	ug/l	
100-42-5	Styrene	ND	13000	1200	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2500	1100	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1300	1000	ug/l	
127-18-4	Tetrachloroethene	ND	2500	1500	ug/l	
108-88-3	Toluene	ND	2500	1200	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	13000	1900	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	13000	1100	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2500	2300	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2500	1200	ug/l	
79-01-6	Trichloroethene	ND	2500	1100	ug/l	
75-69-4	Trichlorofluoromethane	ND	2500	1500	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	13000	1700	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	13000	1200	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	13000	2700	ug/l	
108-05-4	Vinyl Acetate	ND	13000	3300	ug/l	
75-01-4	Vinyl chloride	ND	2500	1500	ug/l	
	m,p-Xylene	ND	2500	2300	ug/l	
95-47-6	o-Xylene	ND	2500	1000	ug/l	
1330-20-7	Xylene (total)	ND	2500	1000	ug/l	

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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW8-ROX-013014-DUP		
Lab Sample ID:	MC28017-4	**Date Sampled:**	01/30/14
Matrix:	AQ - Ground Water	**Date Received:**	01/31/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	112%		70-130%
2037-26-5	Toluene-D8	95%		70-130%
460-00-4	4-Bromofluorobenzene	103%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW8-ROX-013014-DUP		
Lab Sample ID:	MC28017-4	**Date Sampled:**	01/30/14
Matrix:	AQ - Ground Water	**Date Received:**	01/31/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W17545.D	1	02/03/14	KR	01/31/14	OP36729	MSW770
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	1.4	ug/l	
95-57-8	2-Chlorophenol	ND	5.4	0.42	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.53	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.36	ug/l	
105-67-9	2,4-Dimethylphenol	12.1	11	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	1.3	ug/l	
95-48-7	2-Methylphenol	12.9	11	1.4	ug/l	
	3&4-Methylphenol	19.0	11	2.2	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.54	ug/l	
100-02-7	4-Nitrophenol	ND	22	0.63	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.4	ug/l	
108-95-2	Phenol	135	5.4	0.56	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.62	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.34	ug/l	
62-53-3	Aniline	ND	11	0.69	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.4	0.22	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.4	0.93	ug/l	
100-51-6	Benzyl Alcohol	ND	11	0.62	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.4	1.0	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.27	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.4	0.23	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.4	0.25	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.4	0.15	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.4	0.22	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.4	0.71	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.73	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.70	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.4	0.54	ug/l	
132-64-9	Dibenzofuran	0.53	2.2	0.17	ug/l	J
84-74-2	Di-n-butyl phthalate	0.92	5.4	0.42	ug/l	JB
117-84-0	Di-n-octyl phthalate	ND	5.4	0.47	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW8-ROX-013014-DUP		
Lab Sample ID:	MC28017-4	**Date Sampled:**	01/30/14
Matrix:	AQ - Ground Water	**Date Received:**	01/31/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.4	0.54	ug/l	
131-11-3	Dimethyl phthalate	ND	5.4	0.54	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	0.72	2.2	0.53	ug/l	J
118-74-1	Hexachlorobenzene	ND	5.4	0.32	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.7	ug/l	
67-72-1	Hexachloroethane	ND	5.4	0.48	ug/l	
78-59-1	Isophorone	ND	5.4	0.22	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.30	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.54	ug/l	
100-01-6	4-Nitroaniline	ND	11	4.7	ug/l	
98-95-3	Nitrobenzene	ND	5.4	0.27	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.4	0.54	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.4	0.88	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.4	0.59	ug/l	
110-86-1	Pyridine	ND	11	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	43%		15-110%
4165-62-2	Phenol-d5	33%		15-110%
118-79-6	2,4,6-Tribromophenol	95%		15-110%
4165-60-0	Nitrobenzene-d5	69%		30-130%
321-60-8	2-Fluorobiphenyl	68%		30-130%
1718-51-0	Terphenyl-d14	94%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW8-ROX-013014-DUP		
Lab Sample ID:	MC28017-4	**Date Sampled:**	01/30/14
Matrix:	AQ - Ground Water	**Date Received:**	01/31/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I87241.D	1	02/04/14	KR	01/31/14	OP36730	MSI3243
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.21	0.11	0.075	ug/l	
208-96-8	Acenaphthylene	0.083	0.11	0.054	ug/l	J
120-12-7	Anthracene	ND	0.11	0.10	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.054	0.021	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.031	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.054	0.034	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.029	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.042	ug/l	
218-01-9	Chrysene	ND	0.11	0.026	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.035	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.044	ug/l	
86-73-7	Fluorene	0.52	0.11	0.11	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.033	ug/l	
90-12-0	1-Methylnaphthalene	13.6	0.22	0.054	ug/l	
91-57-6	2-Methylnaphthalene	12.3	0.22	0.081	ug/l	
85-01-8	Phenanthrene	0.19	0.054	0.014	ug/l	
129-00-0	Pyrene	ND	0.11	0.042	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	72%		30-130%
321-60-8	2-Fluorobiphenyl	63%		30-130%
1718-51-0	Terphenyl-d14	90%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW8-ROX-013014-DUP		
Lab Sample ID:	MC28017-4	**Date Sampled:**	01/30/14
Matrix:	AQ - Ground Water	**Date Received:**	01/31/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK34512.D	1	02/04/14	NK	02/03/14	OP36754	GBK1140
Run #2							

	Initial Volume	Final Volume
Run #1	36.0 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0053	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	115%		36-173%
460-00-4	Bromofluorobenzene (S)	132%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-013014-HCL		
Lab Sample ID:	MC28017-5	**Date Sampled:**	01/30/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/31/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V27755.D	1	02/10/14	AMY	n/a	n/a	MSV1046
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	4.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide [a]	ND	5.0	0.77	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-013014-HCL		
Lab Sample ID:	MC28017-5	**Date Sampled:**	01/30/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/31/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
123-91-1	1,4-Dioxane [a]	ND	25	16	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	3.9	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.91	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-013014-HCL		
Lab Sample ID:	MC28017-5	**Date Sampled:**	01/30/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/31/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		70-130%
2037-26-5	Toluene-D8	96%		70-130%
460-00-4	4-Bromofluorobenzene	104%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-013014-ST		
Lab Sample ID:	MC28017-6	**Date Sampled:**	01/30/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/31/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK34513.D	1	02/04/14	NK	02/03/14	OP36754	GBK1140
Run #2							

	Initial Volume	Final Volume
Run #1	35.9 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0053	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	113%		36-173%
460-00-4	Bromofluorobenzene (S)	104%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

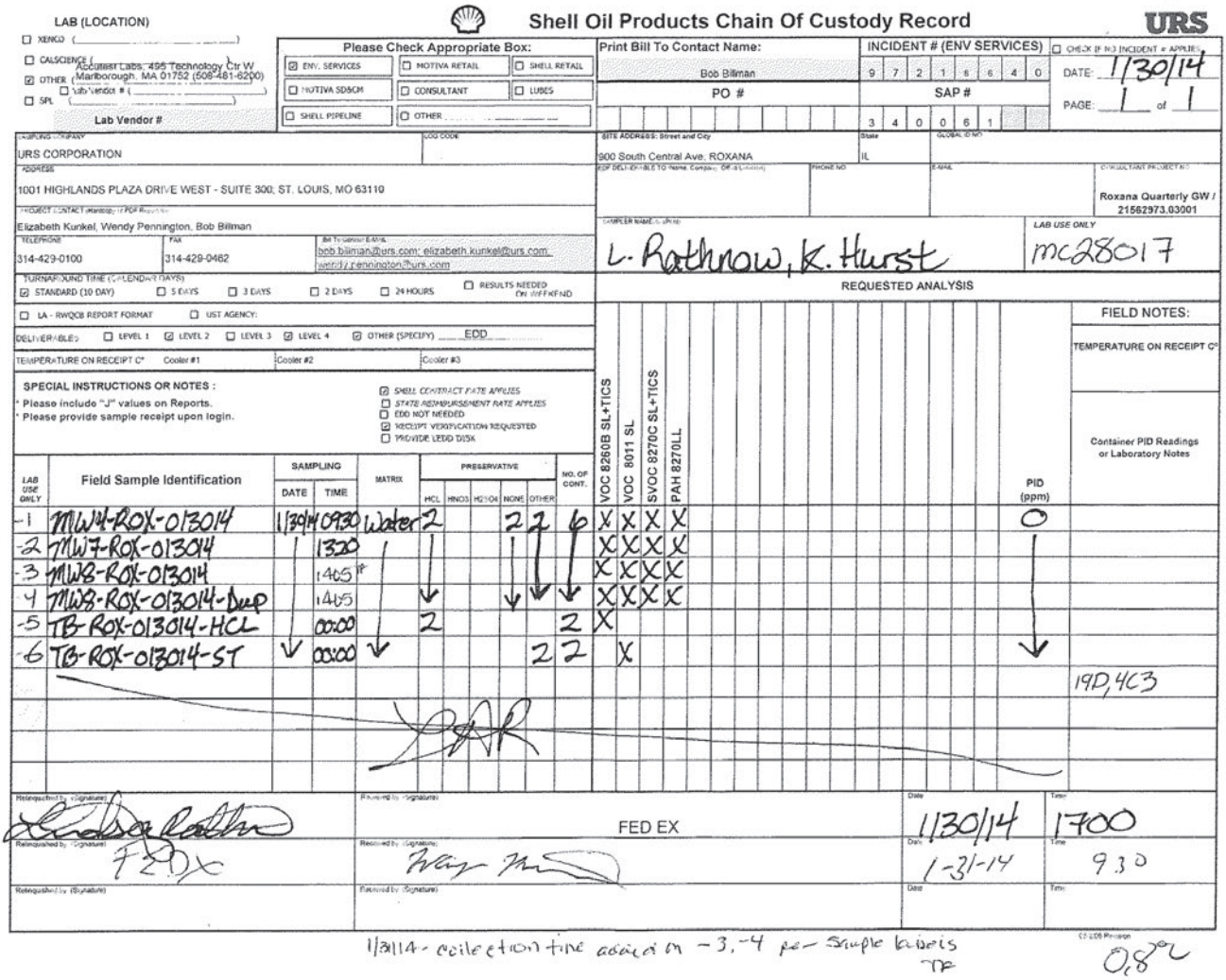
Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- REPROC Form: Reprocessed/Corrected Data
- Sample Tracking Chronicle
- Internal Chain of Custody

Shell Oil Products Chain Of Custody Record

URS



LAB (LOCATION)
- ☐ XENCO ( )
- ☐ CALSCIENCE ( )
- ☑ OTHER (Accutest Labs, 495 Technology Ctr W Marlborough, MA 01752 (508-481-6200))
- ☐ Lab Vendor # ( )
- ☐ SPL ( )

Lab Vendor #

Please Check Appropriate Box:
- ☑ ENV. SERVICES
- ☐ MOTIVA RETAIL
- ☐ SHELL RETAIL
- ☐ MOTIVA SD&CM
- ☐ CONSULTANT
- ☐ LUBES
- ☐ SHELL PIPELINE
- ☐ OTHER

Print Bill To Contact Name: Bob Billman

PO #

INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0

SAP #: 3 4 0 0 6 1

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 1/30/14

PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION

LOG CODE:

SITE ADDRESS: Street and City: 900 South Central Ave, ROXANA

State: IL

GLOBAL ID NO:

ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300, ST. LOUIS, MO 63110

EDF DELIVERABLE TO (Name, Company, Office Location):

PHONE NO:

E-MAIL:

CONSULTANT PROJECT NO: Roxana Quarterly GW / 21562973.03001

PROJECT CONTACT (Hardcopy or PDF Report): Elizabeth Kunkel, Wendy Pennington, Bob Billman

TELEPHONE: 314-429-0100

FAX: 314-429-0462

Bill To Contact E-MAIL: bob.billman@urs.com; elizabeth.kunkel@urs.com; wendy.pennington@urs.com

SAMPLER NAME(S) (PRINT): L. Rathnow, K. Hurst

LAB USE ONLY: mc28017

TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (10 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☑ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☑ OTHER (SPECIFY) EDD

TEMPERATURE ON RECEIPT C°: Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES:
- Please include "J" values on Reports.
- Please provide sample receipt upon login.

- ☑ SHELL CONTRACT RATE APPLIES
- ☐ STATE REIMBURSEMENT RATE APPLIES
- ☐ EDD NOT NEEDED
- ☑ RECEIPT VERIFICATION REQUESTED
- ☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8260B SL+TICS	VOC 8011 SL	SVOC 8270C SL+TICS	PAH 8270LL	PID (ppm)	Container PID Readings or Laboratory Notes
-1	MW4-ROX-013014	1/30/14	0930	Water	2			2	2	6	X	X	X	X	0	
-2	MW7-ROX-013014	↓	1320	↓	↓			↓	↓	↓	X	X	X	X	↓	
-3	MW8-ROX-013014	↓	1405	↓	↓			↓	↓	↓	X	X	X	X	↓	
-4	MW8-ROX-013014-Dup	↓	1405	↓	↓			↓	↓	↓	X	X	X	X	↓	
-5	TB-ROX-013014-HCL	↓	00:00	↓	2					2	X				↓	
-6	TB-ROX-013014-ST	↓	00:00	↓					2	2		X			↓	
																19D, 4C3

Relinquished by (Signature)	Received by (Signature)	Date	Time
[signature]	FED EX	1/30/14	1700
FEDX	[signature]	1-31-14	930

1/31/14 - collection time added on -3, -4 per sample labels TR

CS-DOS Revision: 0.8°C

MC28017: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC28017 **Client:** URS **Immediate Client Services Action Required:** No

Date / Time Received: 1/31/2014 **Delivery Method:** **Client Service Action Required at Login:** No

Project: 900 SOUTH CENTRAL **No. Coolers:** 1 **Airbill #'s:**

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Infared gun		
3. Cooler media:	Ice (bag)		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

Marlborough, MA
www/accutest.com

5.1

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MC28017: Chain of Custody
Page 2 of 2

Initial Calibration Summary

Job Number: MC28017 **Sample:** MSV1019-ICC1019
Account: SHELLWIC Shell Oil **Lab FileID:** V26938.D
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Response Factor Report MSV

Method : O:\msv\1\methods\v140107wx.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Calibration Files
0.25=v26932.d 0.5 =v26933.d 1 =v26934.d 2 =v26935.d
5 =v26936.d 10 =v26937.d 50 =v26938.d 100 =v26939.d
200 =v26940.d 400 =v26942.d = =

Compound

	0.25	0.5	1	2	5	10	50	100	200	400	Avg	%RSD
1) I tert butyl alcohol-d9 ----------ISTD----------												
2) Ethanol				0.166	0.141	0.140	0.070	0.095	0.070	0.077	0.108	36.81
---- Linear regression ---- Coefficient = 0.9924												
Response Ratio = 0.07206 + 0.07518 *A												
3) I pentafluorobenzene ----------ISTD----------												
4) chloroethane				0.708	0.546	0.470	0.438	0.407	0.399	0.368	0.311	0.456	27.04
---- Linear regression ---- Coefficient = 0.9911												
Response Ratio = 0.00673 + 0.37855 *A												

(#) = Out of Range ### Number of calibration levels exceeded format ###

v140107wx.m Mon Oct 12 12:04:54 2015

Initial Calibration Verification

Job Number: MC28017 **Sample:** MSV1019-ICV1019
Account: SHELLWIC Shell Oil **Lab FileID:** V26944.D
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Evaluate Continuing Calibration Report

Data File : O:\msv\1\databackup\v140107\v26944.d Vial: 22
Acq On : 7 Jan 2014 7:05 pm Operator: amym
Sample : icv1019-50 Inst : MSV
Misc : MS30921,MSV1019,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : O:\msv\1\methods\v140107wx.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Oct 12 12:03:49 2015
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	tert butyl alcohol-d9	1.000	1.000	0.0	110	-0.01	3.51
		Amount	Calc.	%Drift			
2 p	Ethanol	5000.000	6281.655	-25.6#	160	0.01	2.50
		AvgRF	CCRF	%Dev			
3 I	pentafluorobenzene	1.000	1.000	0.0	113	0.00	6.55
		Amount	Calc.	%Drift			
4 p	chloroethane	50.000	55.636	-11.3	119	0.00	2.15

(#) = Out of Range SPCC's out = 0 CCC's out = 0
v26938.d v140107wx.m Mon Oct 12 12:05:26 2015

Continuing Calibration Summary

Job Number: MC28017 **Sample:** MSV1046-CC1019
Account: SHELLWIC Shell Oil **Lab FileID:** V27750.D
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Evaluate Continuing Calibration Report

Data File : O:\msv\1\databackup\v140210\v27750.d Vial: 3
Acq On : 10 Feb 2014 9:10 am Operator: amym
Sample : cc1019-50 Inst : MSV
Misc : MS31098,MSV1046,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : O:\msv\1\methods\v140107wx.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Oct 12 12:03:49 2015
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	tert butyl alcohol-d9	1.000	1.000	0.0	89	0.00	3.52
		Amount	Calc.	%Drift			
2 p	Ethanol	5000.000	9203.600	-84.1#	185	0.02	2.51
		AvgRF	CCRF	%Dev			
3 I	pentafluorobenzene	1.000	1.000	0.0	82	0.00	6.57
		Amount	Calc.	%Drift			
4 p	chloroethane	50.000	57.865	-15.7	90	0.00	2.16

(#) = Out of Range SPCC's out = 0 CCC's out = 0
v26938.d v140107wx.m Fri Nov 20 08:48:36 2015

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26932.d
Acq On : 7 Jan 2014 12:30 pm
Operator : amym
Sample : ic1019-0.25
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 12 11:50:29 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.522	65	168440	500.00	ug/L	0.00
3) pentafluorobenzene	6.564	168	534929	50.00	ug/L	0.00

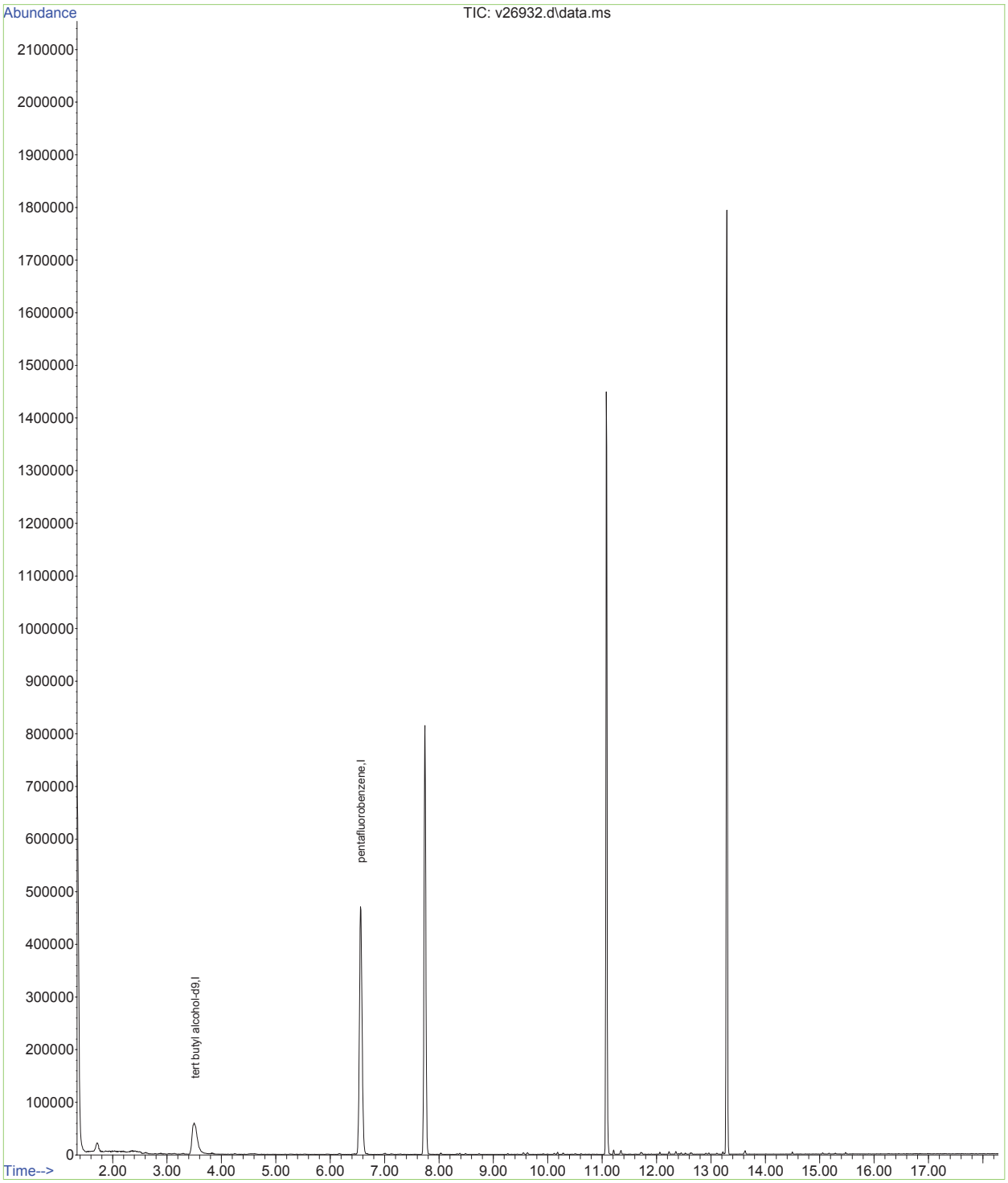
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST
MC28017

Data Path : O:\msv\1\databackup\v140107\
Data File : v26932.d
Acq On : 7 Jan 2014 12:30 pm
Operator : amym
Sample : ic1019-0.25
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 12 11:50:29 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Data Path : O:\msv\1\databackup\v140107\
Data File : v26933.d
Acq On : 7 Jan 2014 12:56 pm
Operator : amym
Sample : ic1019-0.5
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 12 11:50:59 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

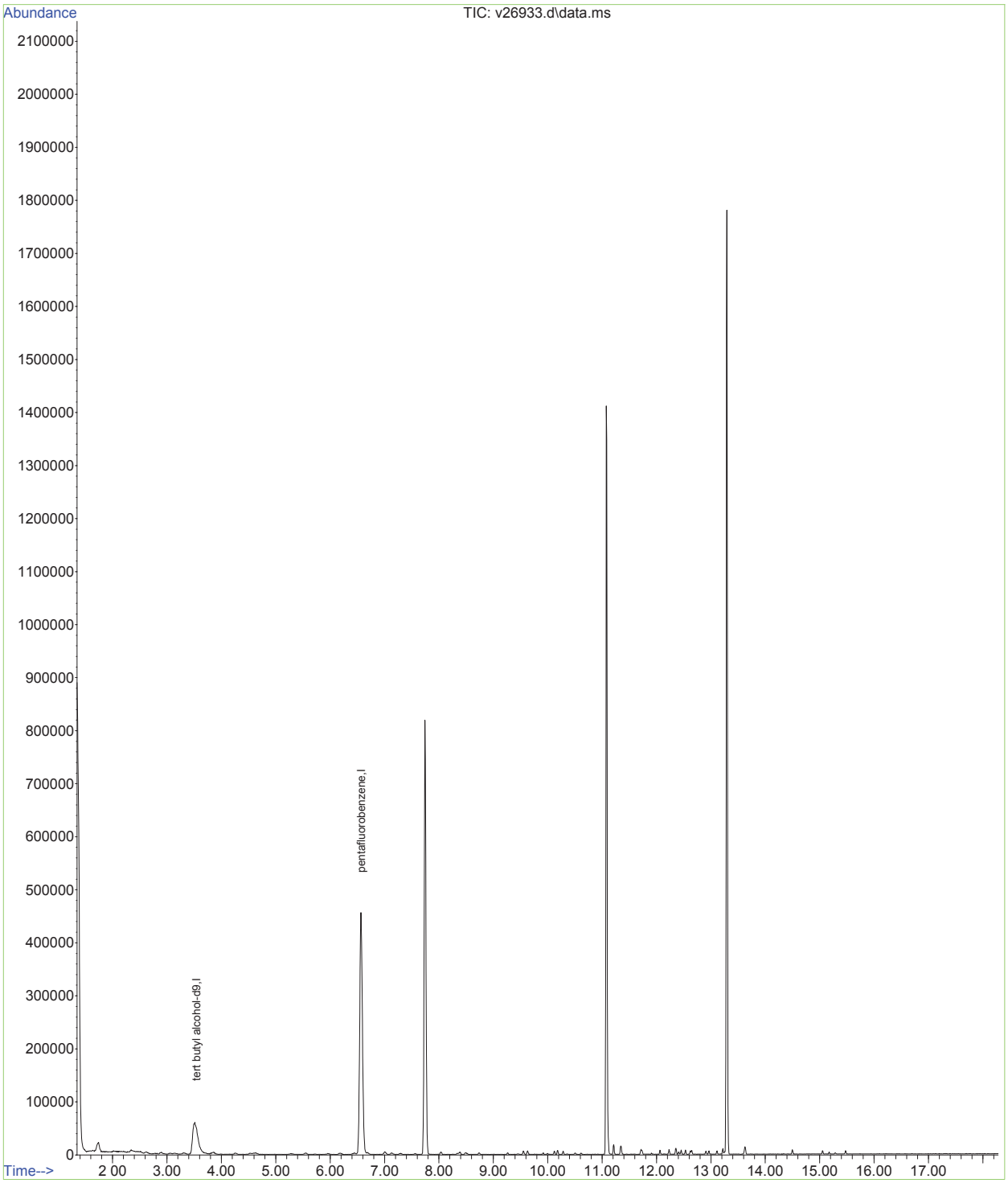
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.537	65	168993	500.00	ug/L	0.01
3) pentafluorobenzene	6.570	168	523768	50.00	ug/L	0.01

Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msv\1\databackup\v140107\
Data File : v26933.d
Acq On : 7 Jan 2014 12:56 pm
Operator : amym
Sample : ic1019-0.5
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 12 11:50:59 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26934.d
Acq On : 7 Jan 2014 1:22 pm
Operator : amym
Sample : ic1019-1
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

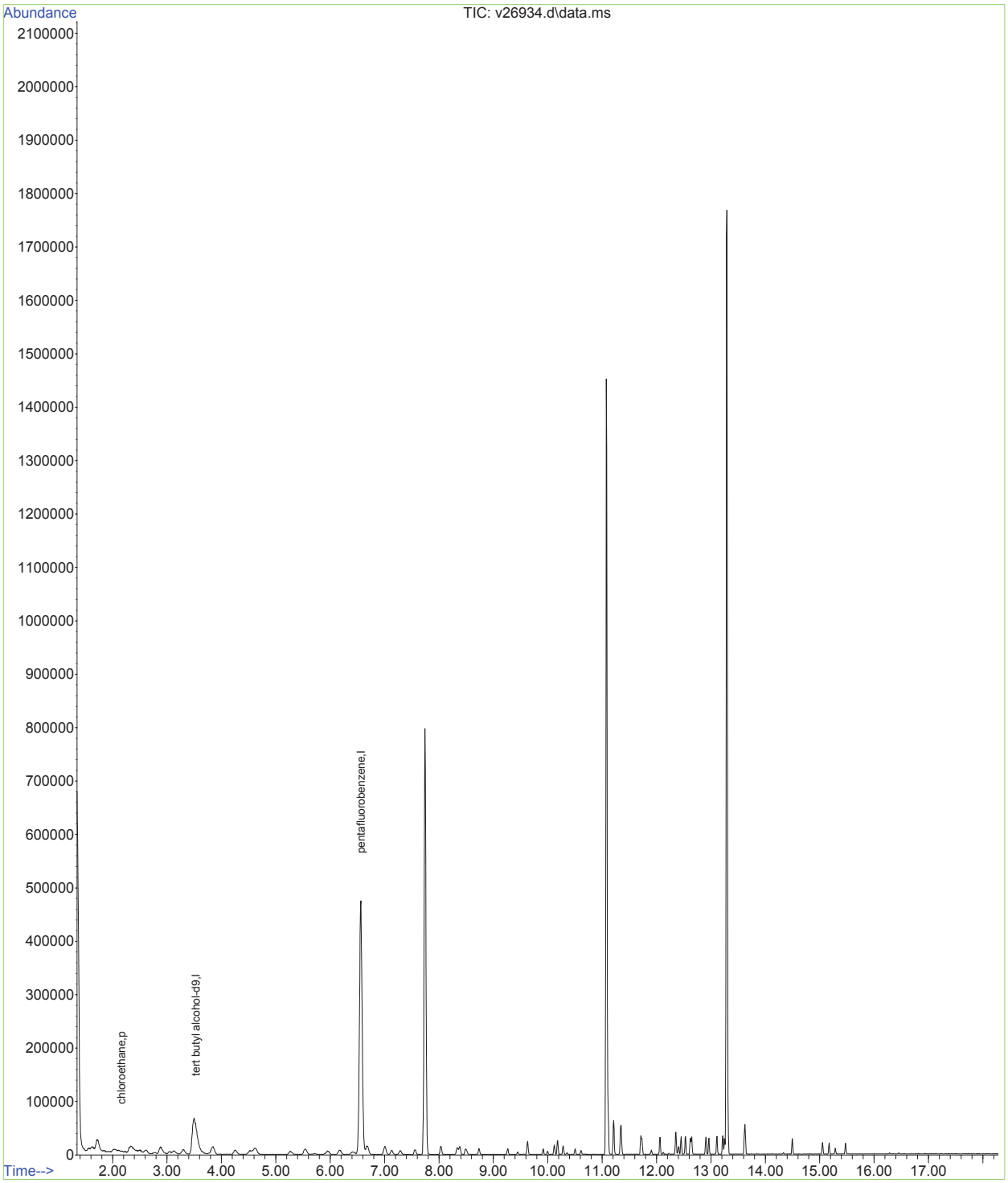
Quant Time: Oct 12 11:52:02 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.527	65	169438	500.00	ug/L	0.00
3) pentafluorobenzene	6.565	168	527887	50.00	ug/L	0.00
Target Compounds						Qvalue
4) chloroethane	2.159	64	7471m	1.74	ug/L	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

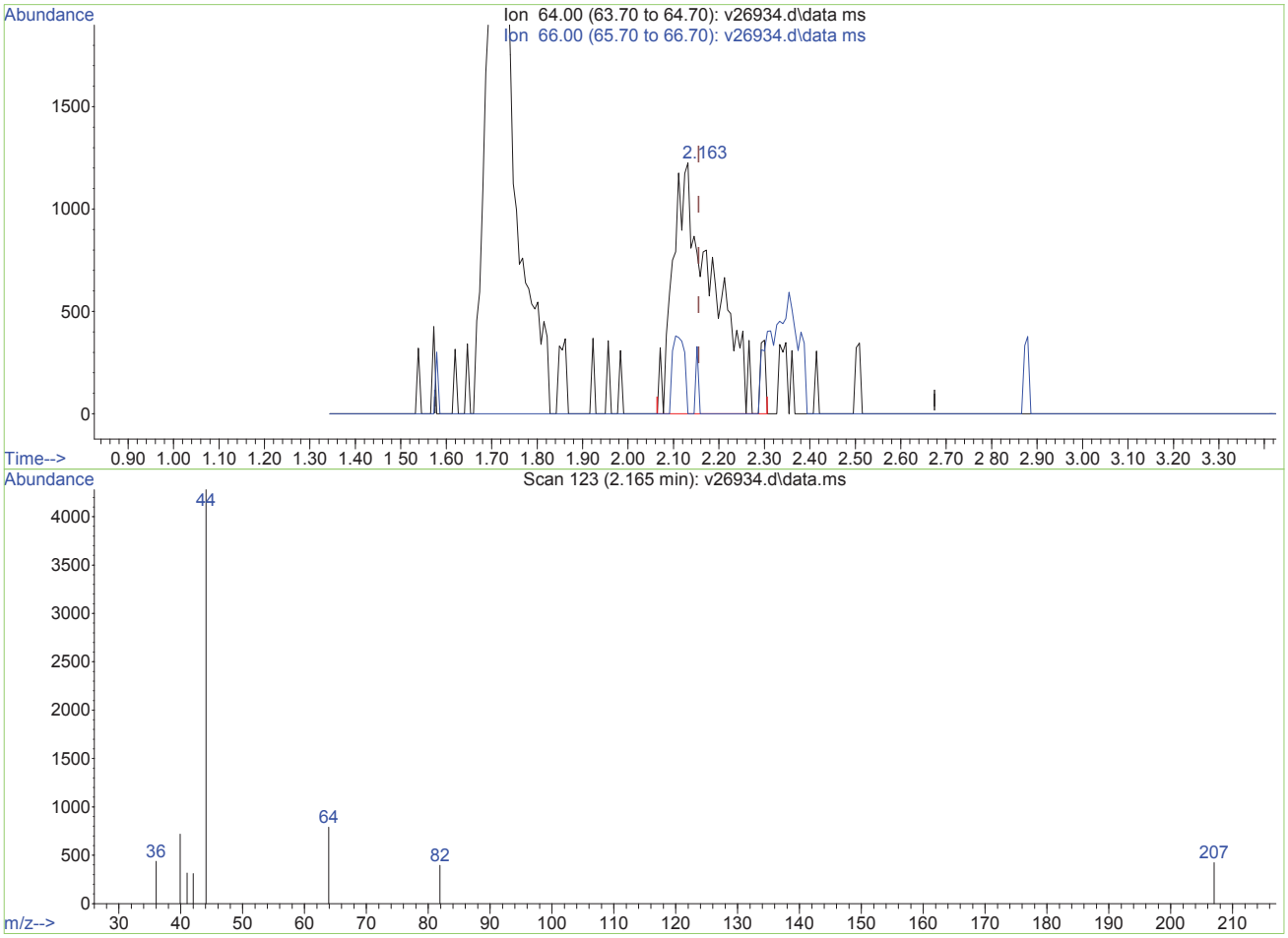
Data Path : O:\msv\1\databackup\v140107\
Data File : v26934.d
Acq On : 7 Jan 2014 1:22 pm
Operator : amym
Sample : ic1019-1
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 12 11:52:02 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Data Path : O:\msv\1\databackup\v140107\
Data File : v26934.d
Acq On : 7 Jan 2014 1:22 pm
Operator : amym
Sample : ic1019-1
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 12 11:49:53 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26934.d\data.ms

(4) chloroethane (p)

2.163min (+0.008) 1.81ug/L

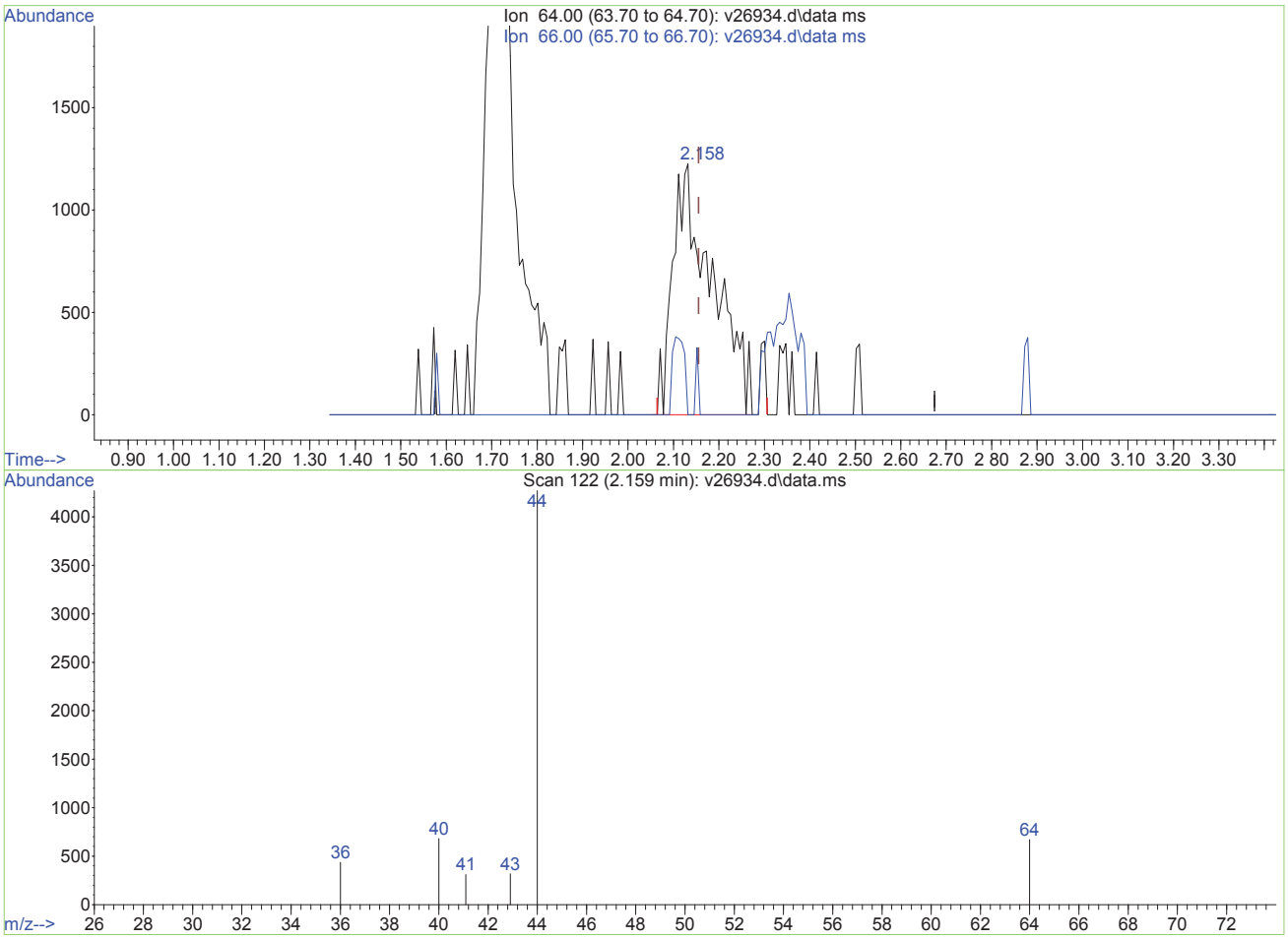
response 7756

Ion	Exp%	Act%
64.00	100	100
66.00	34.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26934.D edits: chloroethane

Data Path : O:\msv\1\databackup\v140107\
Data File : v26934.d
Acq On : 7 Jan 2014 1:22 pm
Operator : amym
Sample : ic1019-1
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 12 11:49:53 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26934.d\data.ms

(4) chloroethane (p)

2.159min (+0.003) 1.74ug/L m

response 7471

Ion	Exp%	Act%
64.00	100	100
66.00	34.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26934.D edits: chloroethane

Data Path : O:\msv\1\databackup\v140107\
Data File : v26935.d
Acq On : 7 Jan 2014 1:49 pm
Operator : amym
Sample : ic1019-2
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

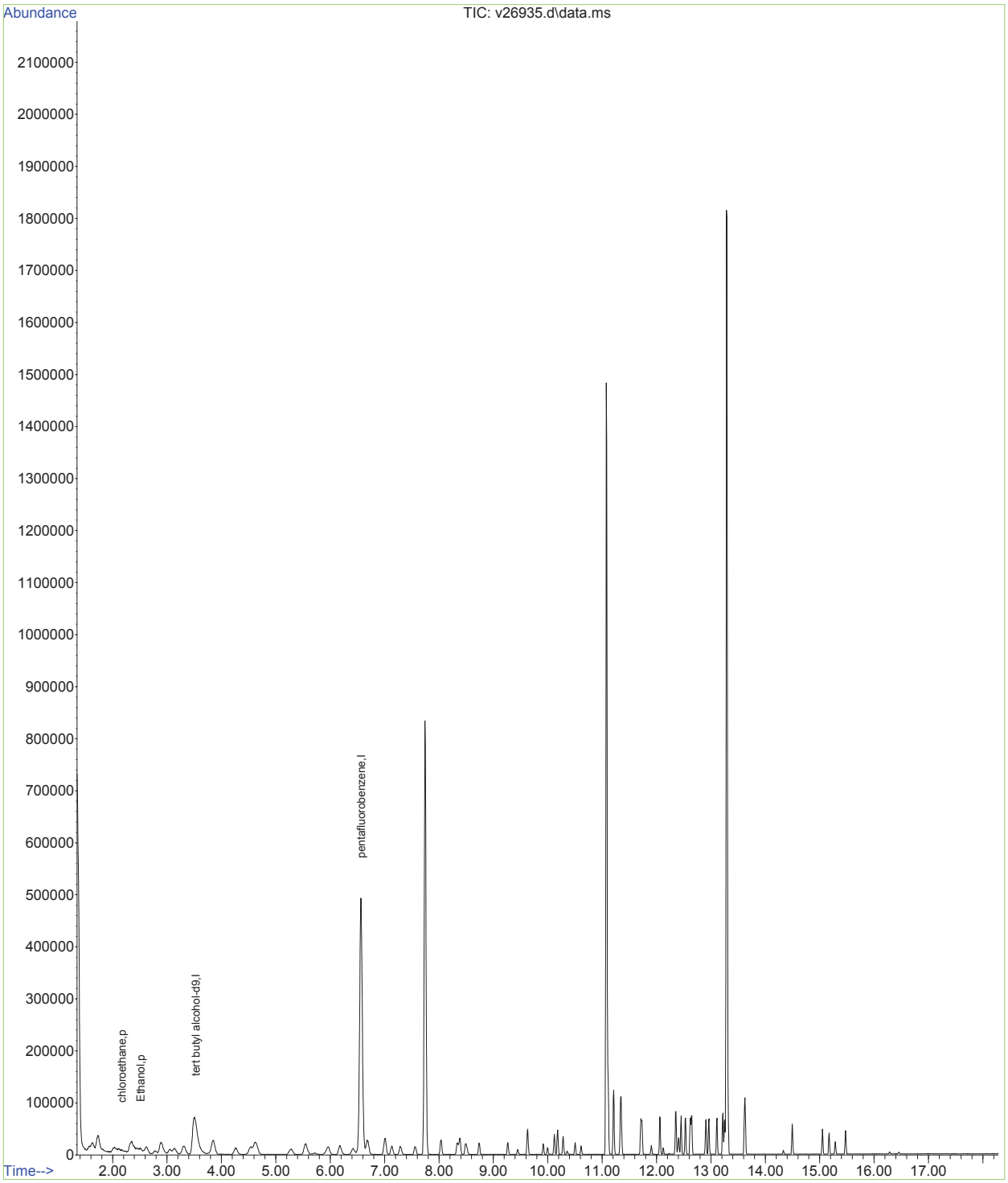
Quant Time: Oct 12 11:52:51 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.533	65	165100	500.00	ug/L	0.01
3) pentafluorobenzene	6.569	168	548060	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.516	45	10989m	474.44	ug/L	
4) chloroethane	2.170	64	11967	2.68	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

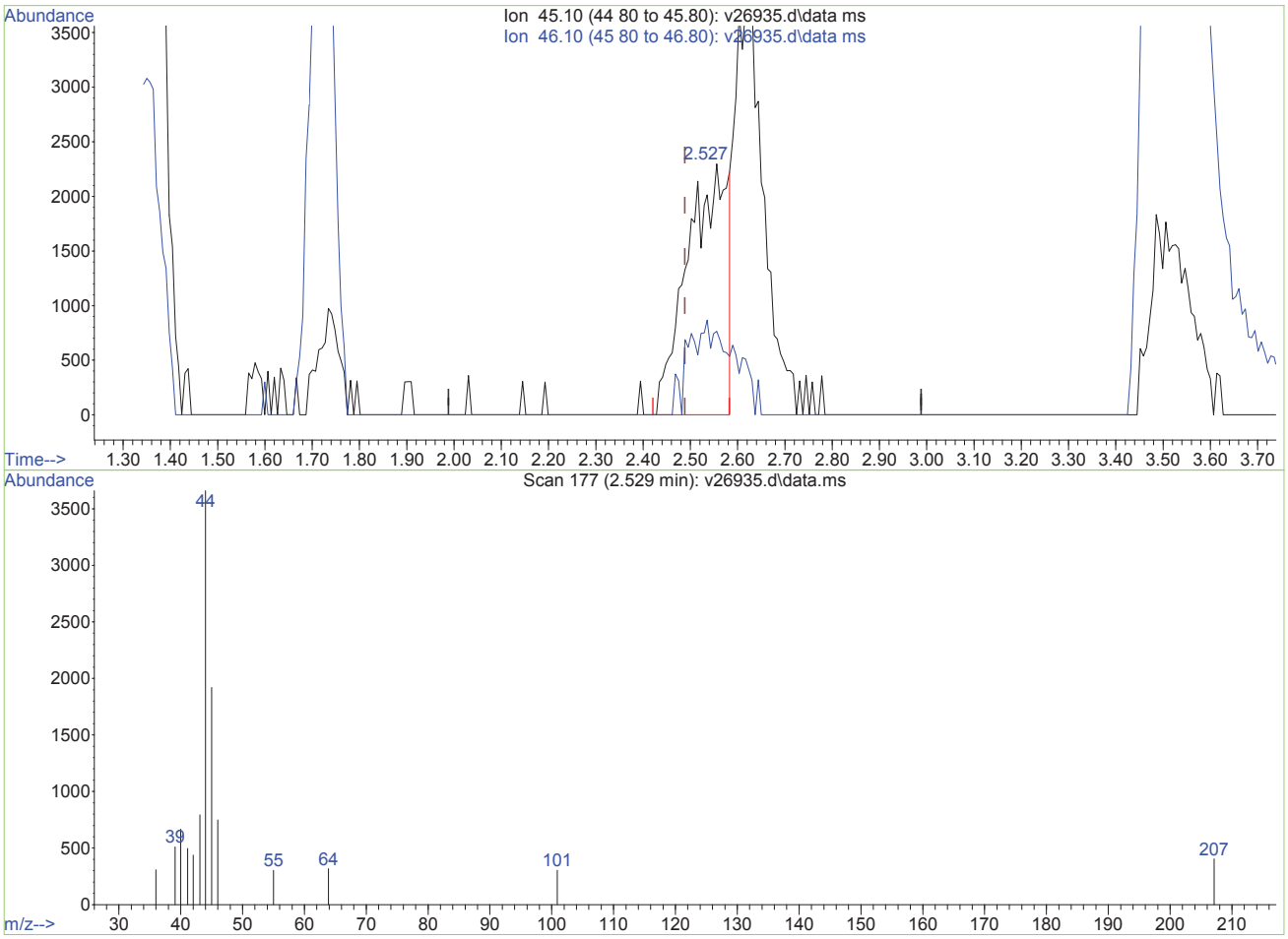
Data Path : O:\msv\1\databackup\v140107\
Data File : v26935.d
Acq On : 7 Jan 2014 1:49 pm
Operator : amym
Sample : ic1019-2
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 12 11:52:51 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Data Path : O:\msv\1\databackup\v140107\
Data File : v26935.d
Acq On : 7 Jan 2014 1:49 pm
Operator : amym
Sample : ic1019-2
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 12 11:49:55 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26935.d\data.ms

(2) Ethanol (p)

2.527min (+0.039) 585.36ug/L

response 13558

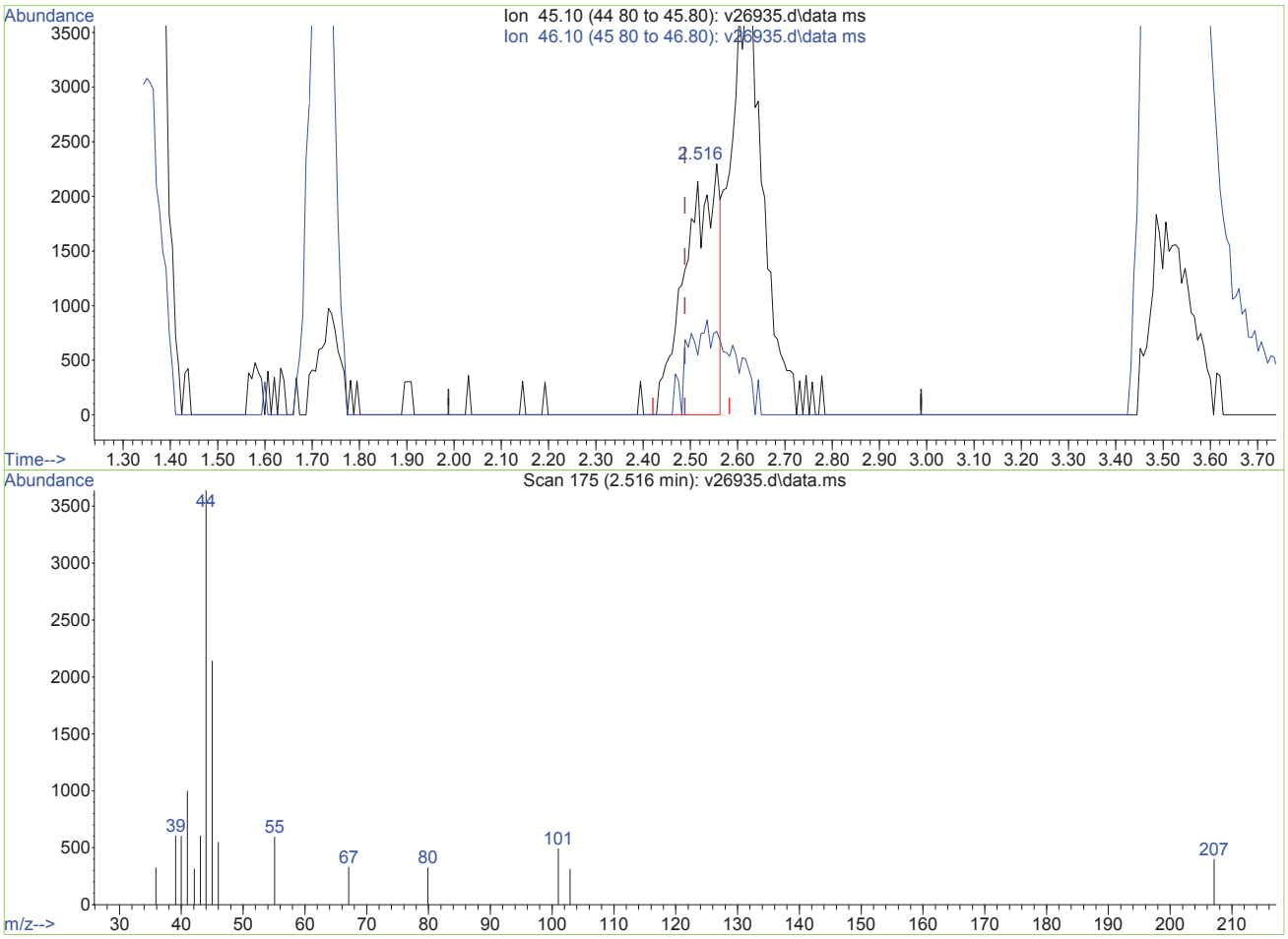
Ion	Exp%	Act%
45.10	100	100
46.10	114.80	43.04#
0.00	0.00	0.00
0.00	0.00	0.00

V26935.D edits: Ethanol

SGS ACCUTEST MC28017

Data Path : O:\msv\1\databackup\v140107\
Data File : v26935.d
Acq On : 7 Jan 2014 1:49 pm
Operator : amym
Sample : ic1019-2
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 12 11:49:55 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26935.d\data.ms

(2) Ethanol (p)

2.516min (+0.027) 474.44ug/L m

response 10989

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	53.11#
0.00	0.00	0.00
0.00	0.00	0.00

V26935.D edits: Ethanol

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26936.d
Acq On : 7 Jan 2014 2:16 pm
Operator : amym
Sample : ic1019-5
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

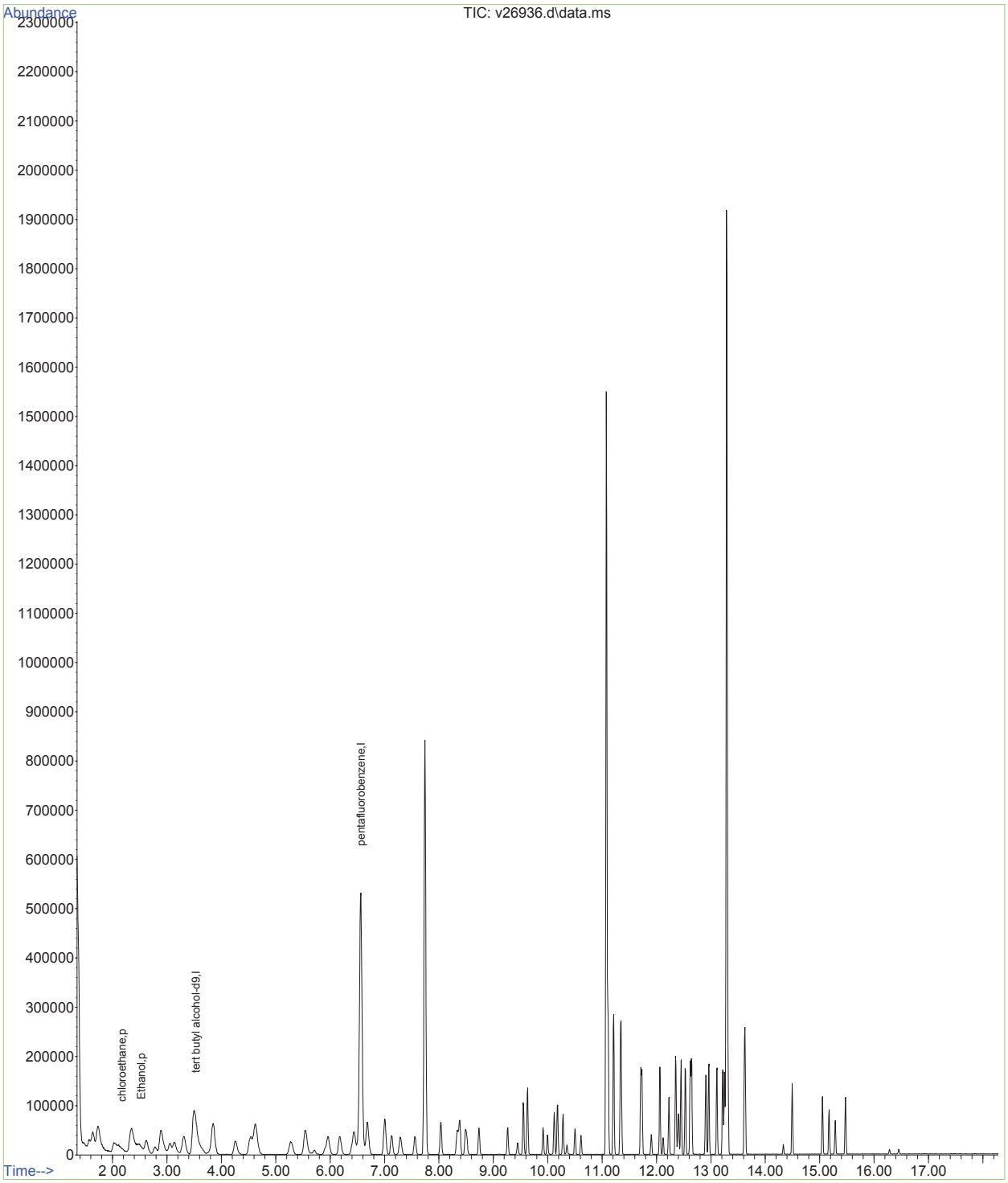
Quant Time: Oct 12 11:49:57 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.532	65	174193	500.00	ug/L	0.00
3) pentafluorobenzene	6.565	168	569450	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.523	45	24520	1003.38	ug/L	# 1
4) chloroethane	2.173	64	26754	5.77	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msv\1\databackup\v140107\
Data File : v26936.d
Acq On : 7 Jan 2014 2:16 pm
Operator : amym
Sample : ic1019-5
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 12 11:49:57 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26937.d
Acq On : 7 Jan 2014 2:42 pm
Operator : amym
Sample : ic1019-10
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

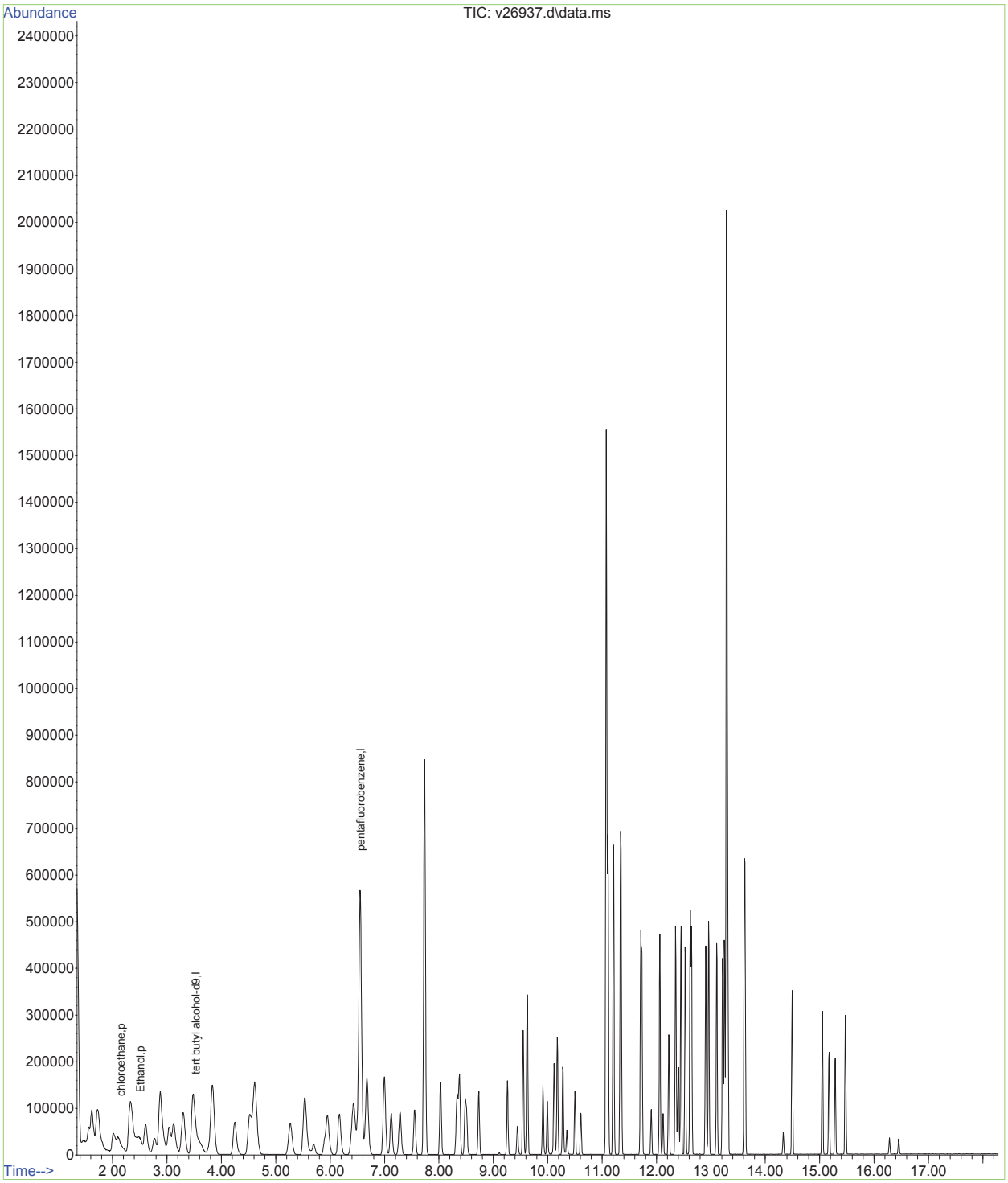
Quant Time: Oct 12 11:49:59 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.523	65	172384	500.00	ug/L	0.00
3) pentafluorobenzene	6.556	168	597997	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.509	45	48113	1989.48	ug/L	# 1
4) chloroethane	2.155	64	52409	10.77	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msv\1\databackup\v140107\
Data File : v26937.d
Acq On : 7 Jan 2014 2:42 pm
Operator : amym
Sample : ic1019-10
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 12 11:49:59 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Data Path : O:\msv\1\databackup\v140107\
Data File : v26938.d
Acq On : 7 Jan 2014 3:08 pm
Operator : amym
Sample : icc1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

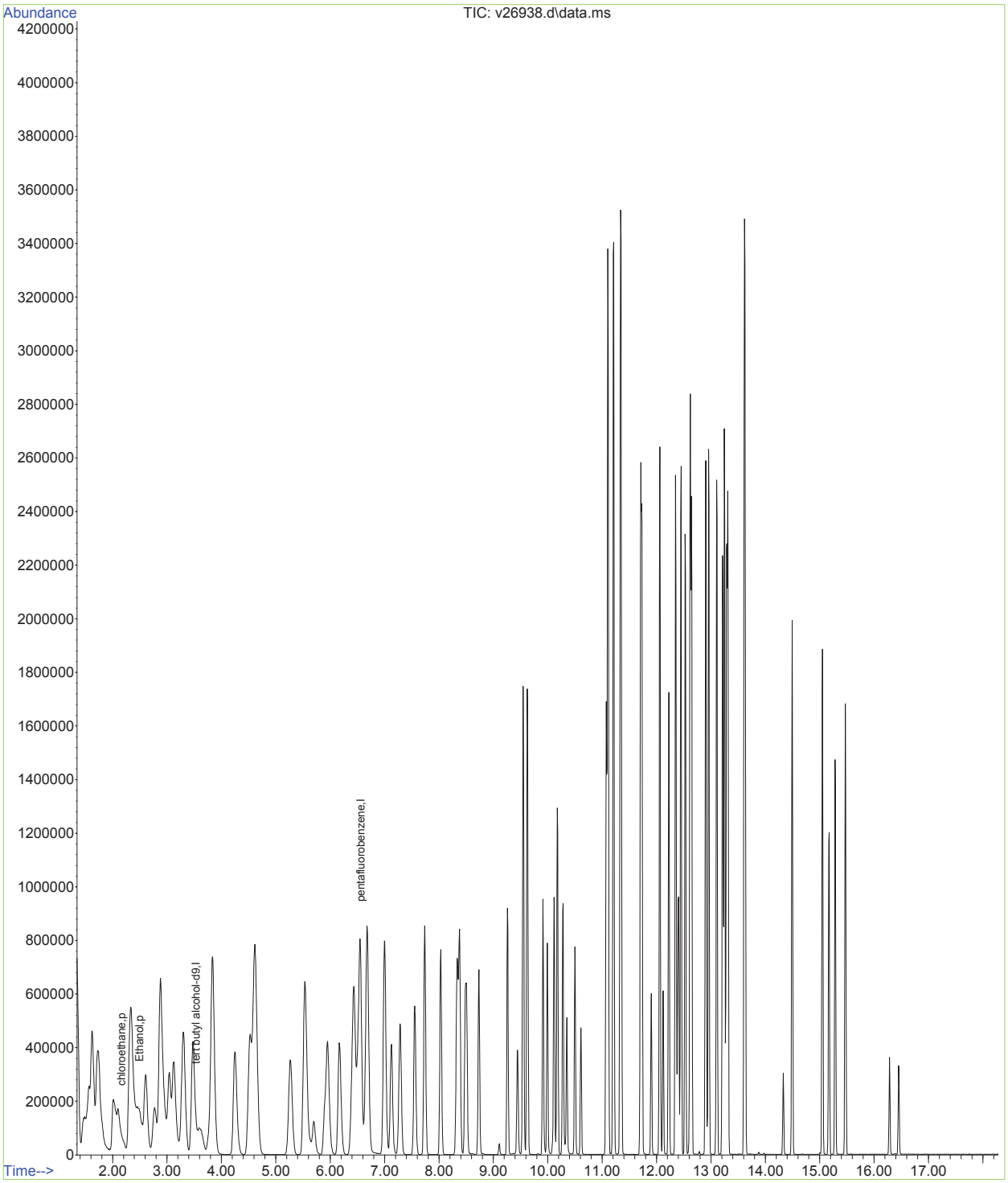
Quant Time: Oct 12 11:54:24 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.524	65	196490	500.00	ug/L	0.00
3) pentafluorobenzene	6.559	168	650576	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.489	45	137020m	4970.70	ug/L	
4) chloroethane	2.155	64	264750	50.00	ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msv\1\databackup\v140107\
Data File : v26938.d
Acq On : 7 Jan 2014 3:08 pm
Operator : amym
Sample : icc1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

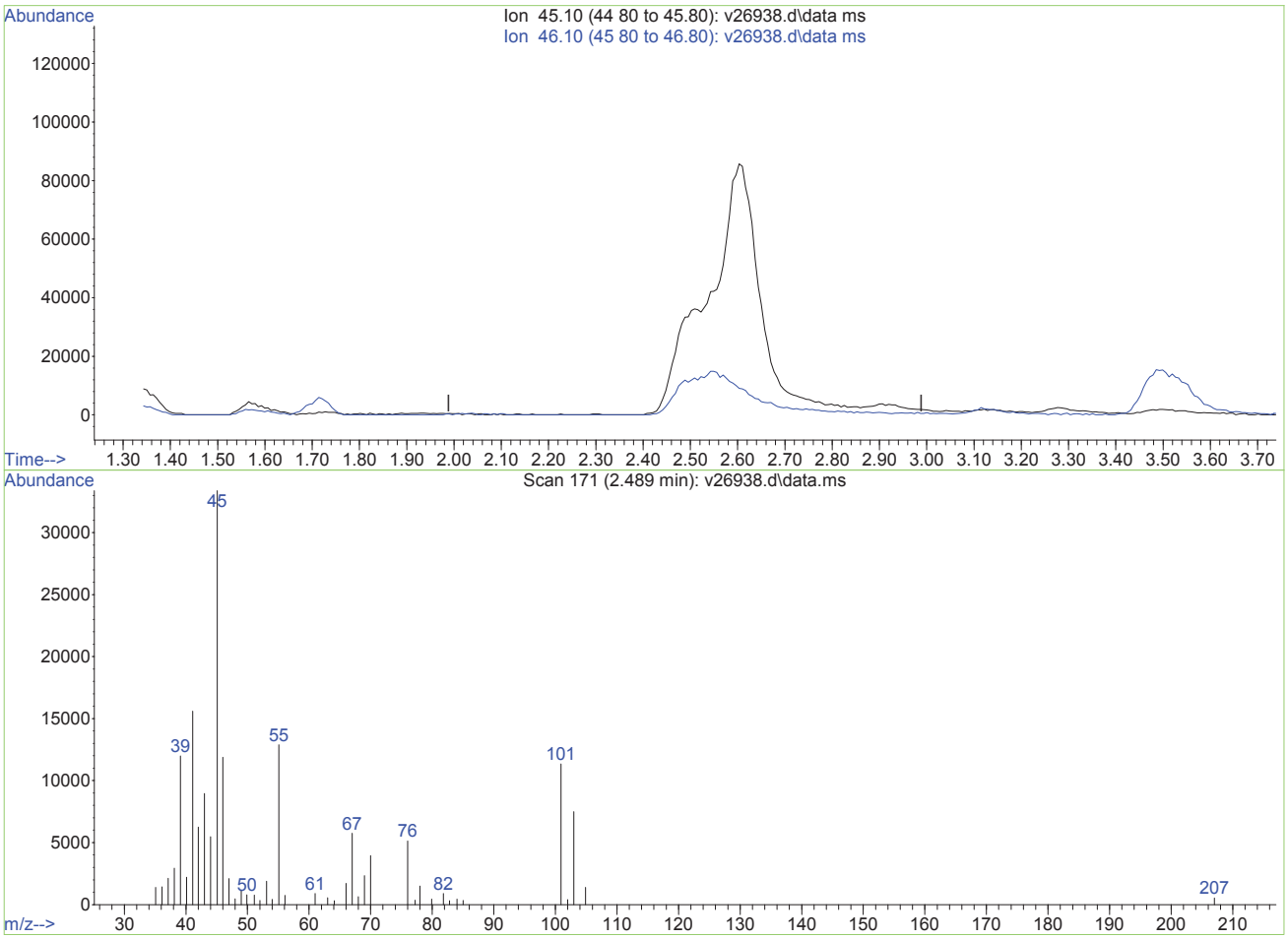
Quant Time: Oct 12 11:54:24 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26938.d
Acq On : 7 Jan 2014 3:08 pm
Operator : amym
Sample : icc1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 12 11:50:01 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26938.d\data.ms

(2) Ethanol (p)

2.489min (-2.489) 0.00ug/L

response 0

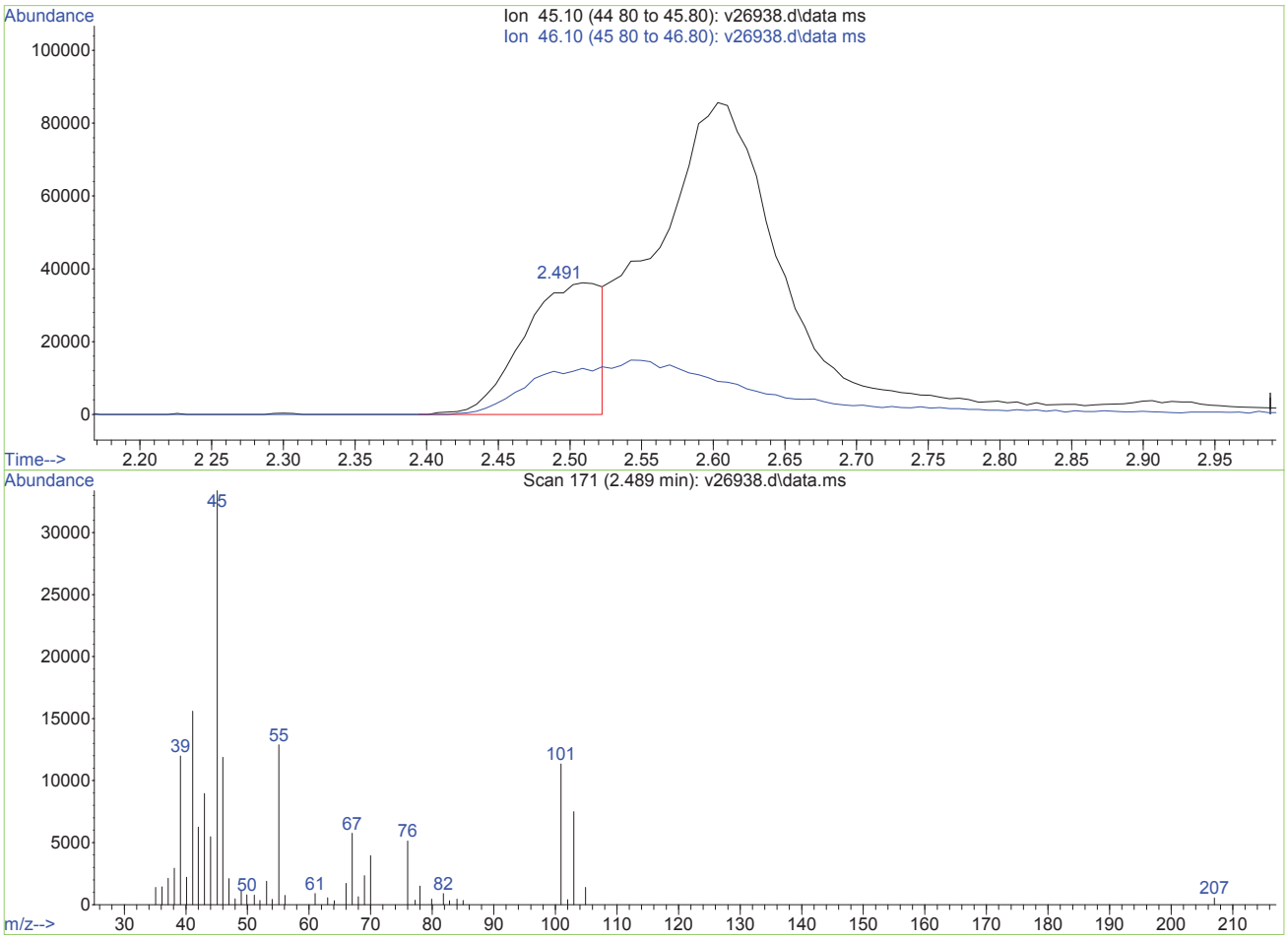
Ion	Exp%	Act%
45.10	100	0.00
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26938.D edits: Ethanol

SGS ACCUTEST MC28017

Data Path : O:\msv\1\databackup\v140107\
Data File : v26938.d
Acq On : 7 Jan 2014 3:08 pm
Operator : amym
Sample : icc1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 12 11:50:01 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26938.d\data.ms

(2) Ethanol (p)

2.489min (0.000) 4970.70ug/L m

response 137020

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26938.D edits: Ethanol

SGS ACCUTEST MC28017

Data Path : O:\msv\1\databackup\v140107\
Data File : v26939.d
Acq On : 7 Jan 2014 3:35 pm
Operator : amym
Sample : ic1019-100
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

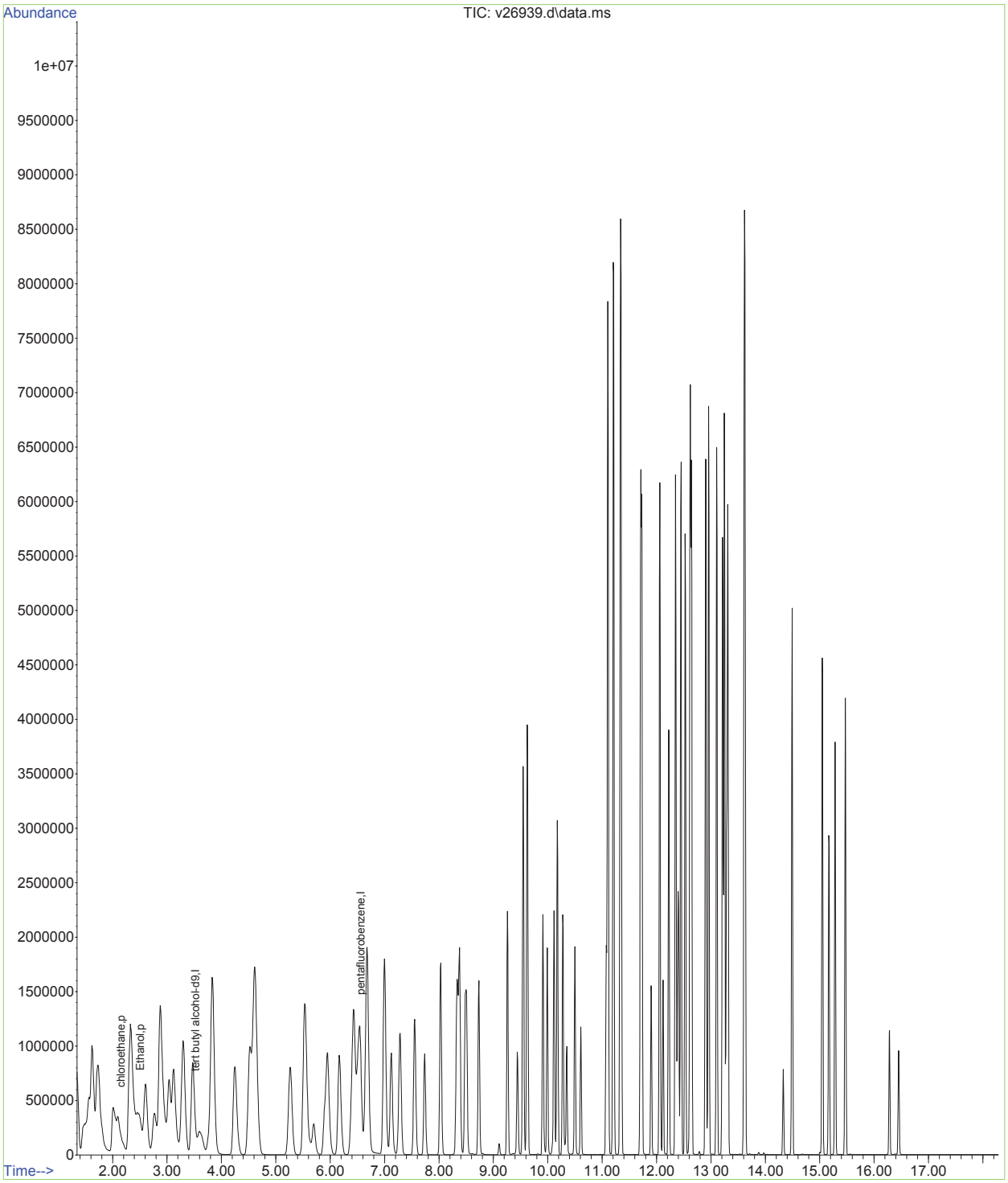
Quant Time: Oct 12 11:55:09 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.521	65	218199	500.00	ug/L	0.00
3) pentafluorobenzene	6.558	168	709327	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.502	45	415447m	13571.79	ug/L	
4) chloroethane	2.151	64	566729	98.17	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msv\1\databackup\v140107\
Data File : v26939.d
Acq On : 7 Jan 2014 3:35 pm
Operator : amym
Sample : ic1019-100
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

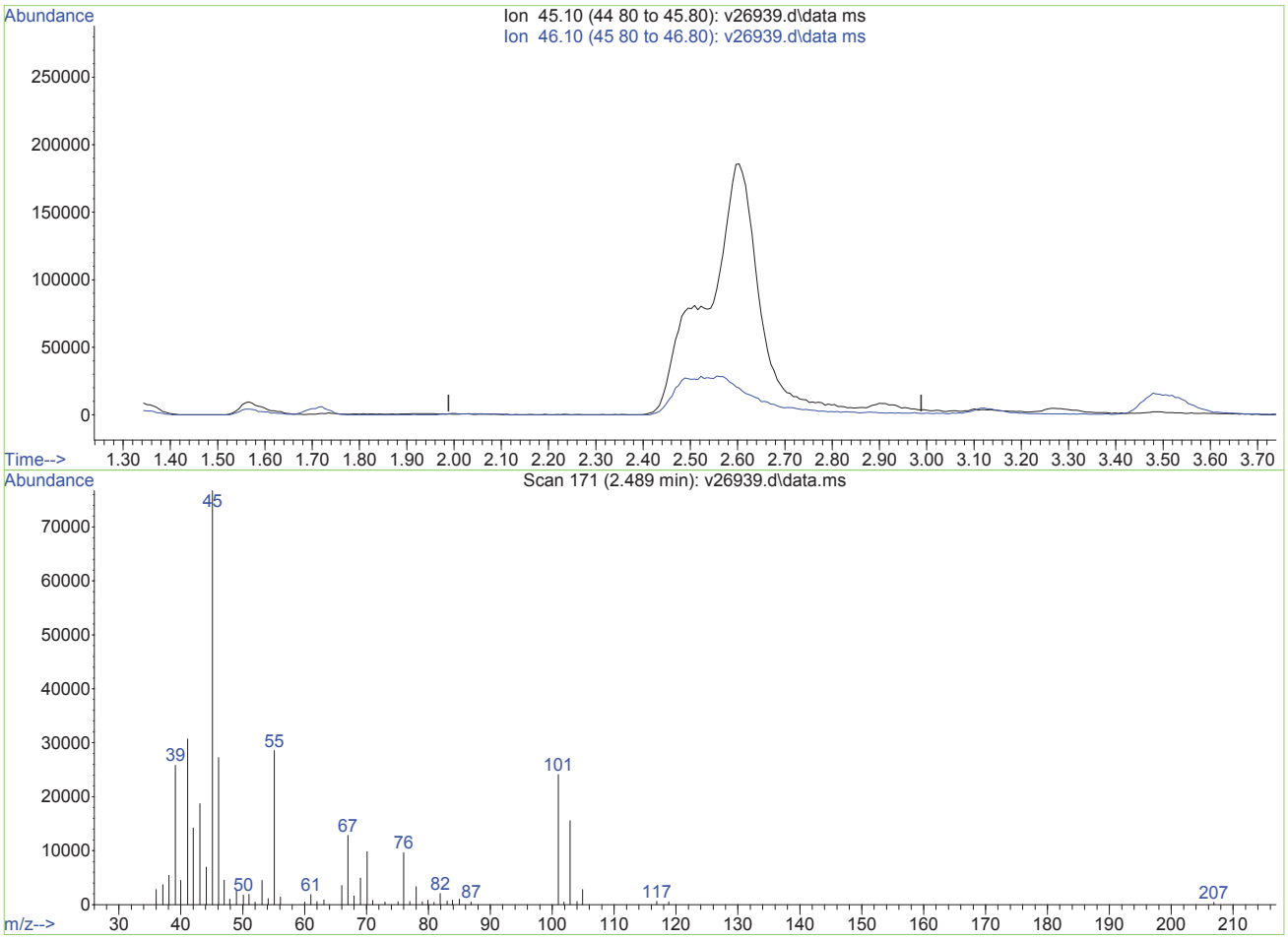
Quant Time: Oct 12 11:55:09 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26939.d
Acq On : 7 Jan 2014 3:35 pm
Operator : amym
Sample : ic1019-100
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 12 11:50:03 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26939.d\data.ms

(2) Ethanol (p)

2.489min (-2.489) 0.00ug/L

response 0

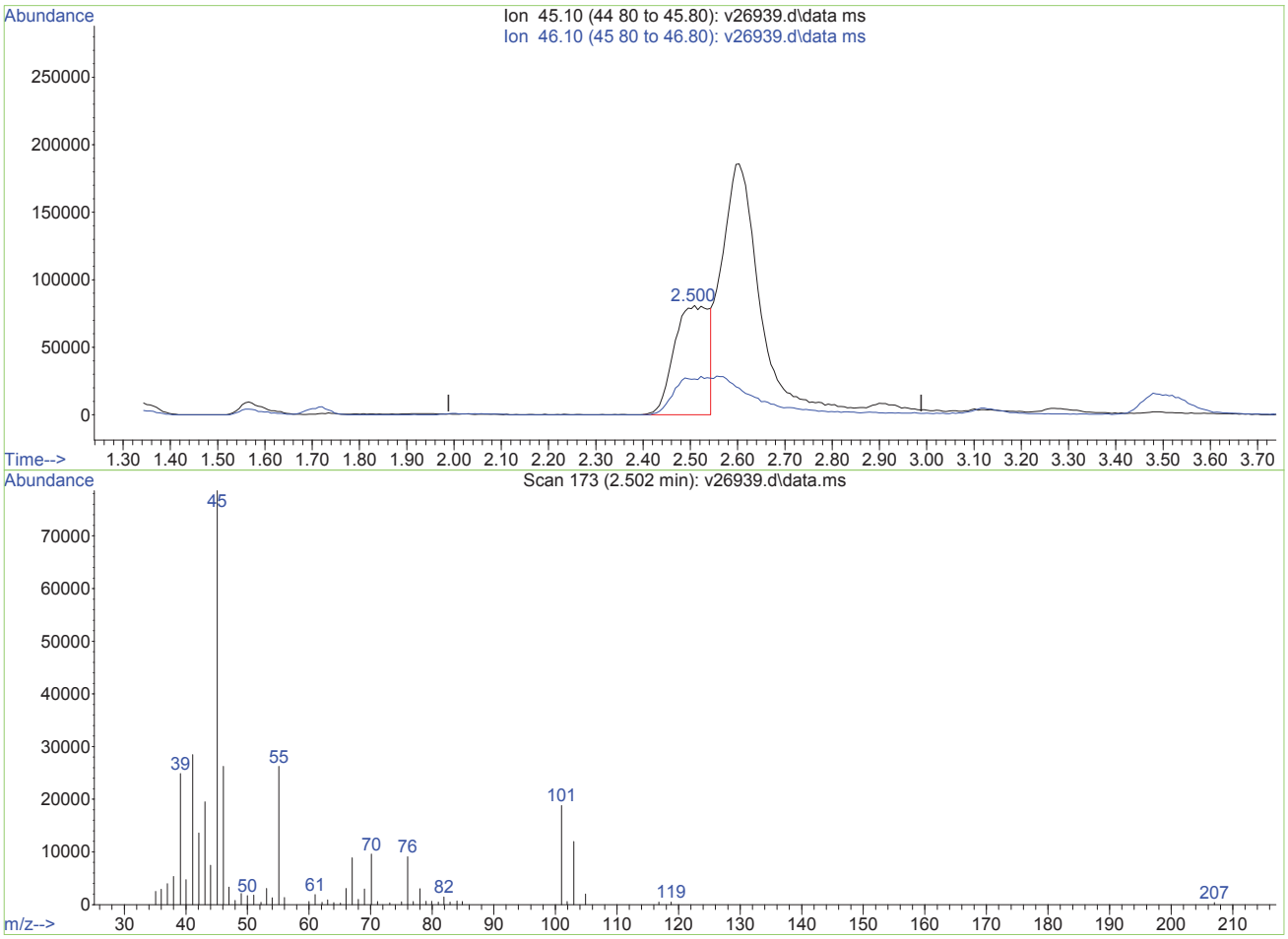
Ion	Exp%	Act%
45.10	100	0.00
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26939.D edits: Ethanol

SGS ACCUTEST MC28017

Data Path : O:\msv\1\databackup\v140107\
Data File : v26939.d
Acq On : 7 Jan 2014 3:35 pm
Operator : amym
Sample : ic1019-100
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 12 11:50:03 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26939.d\data.ms

(2) Ethanol (p)

2.502min (+0.013) 13571.79ug/L m

response 415447

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26939.D edits: Ethanol

SGS ACCUTEST MC28017

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

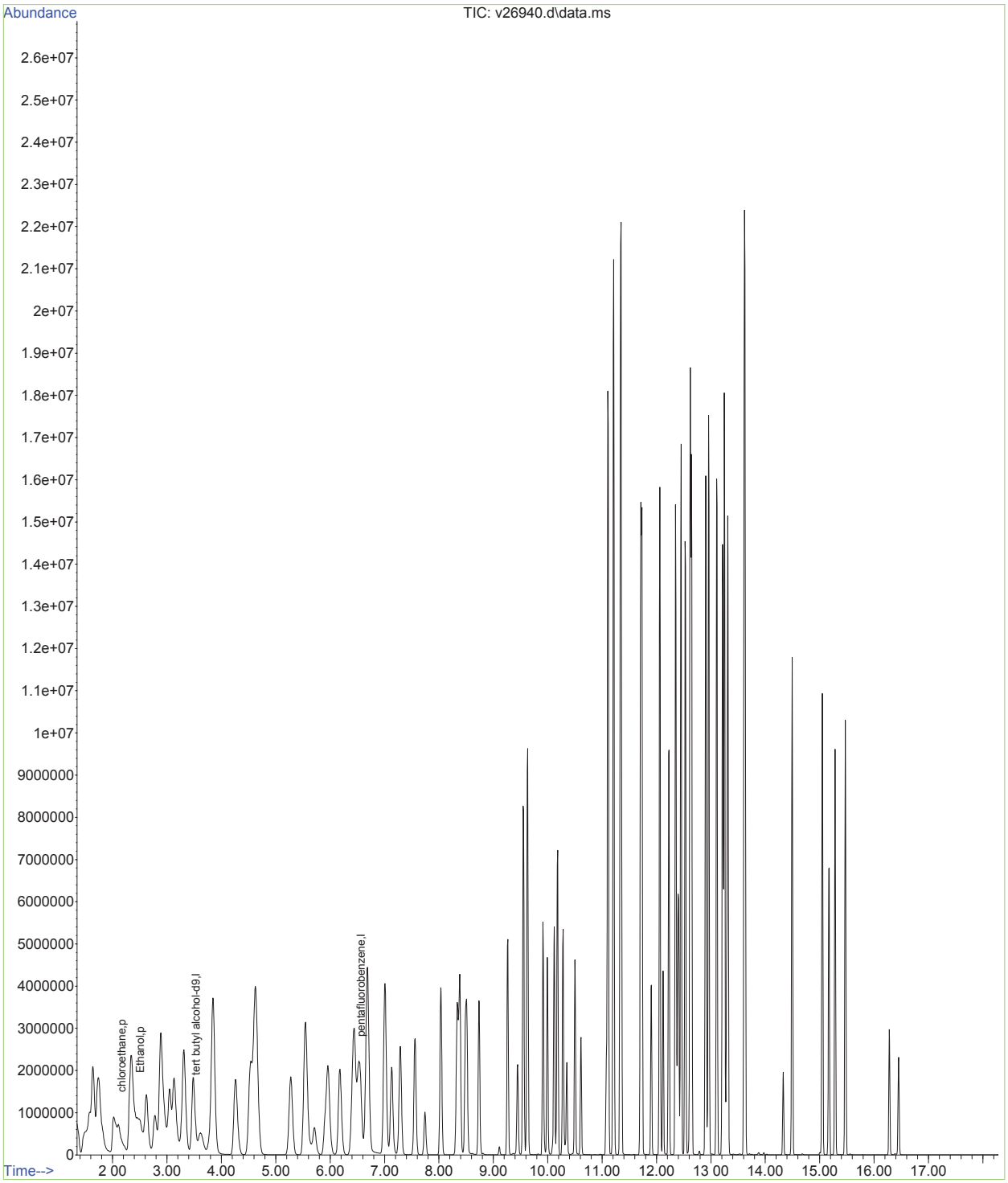
Quant Time: Oct 12 11:56:38 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.526	65	248311m	500.00	ug/L	0.00
3) pentafluorobenzene	6.565	168	827373	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.502	45	690608m	19824.86	ug/L	
4) chloroethane	2.165	64	1217177m	180.75	ug/L	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

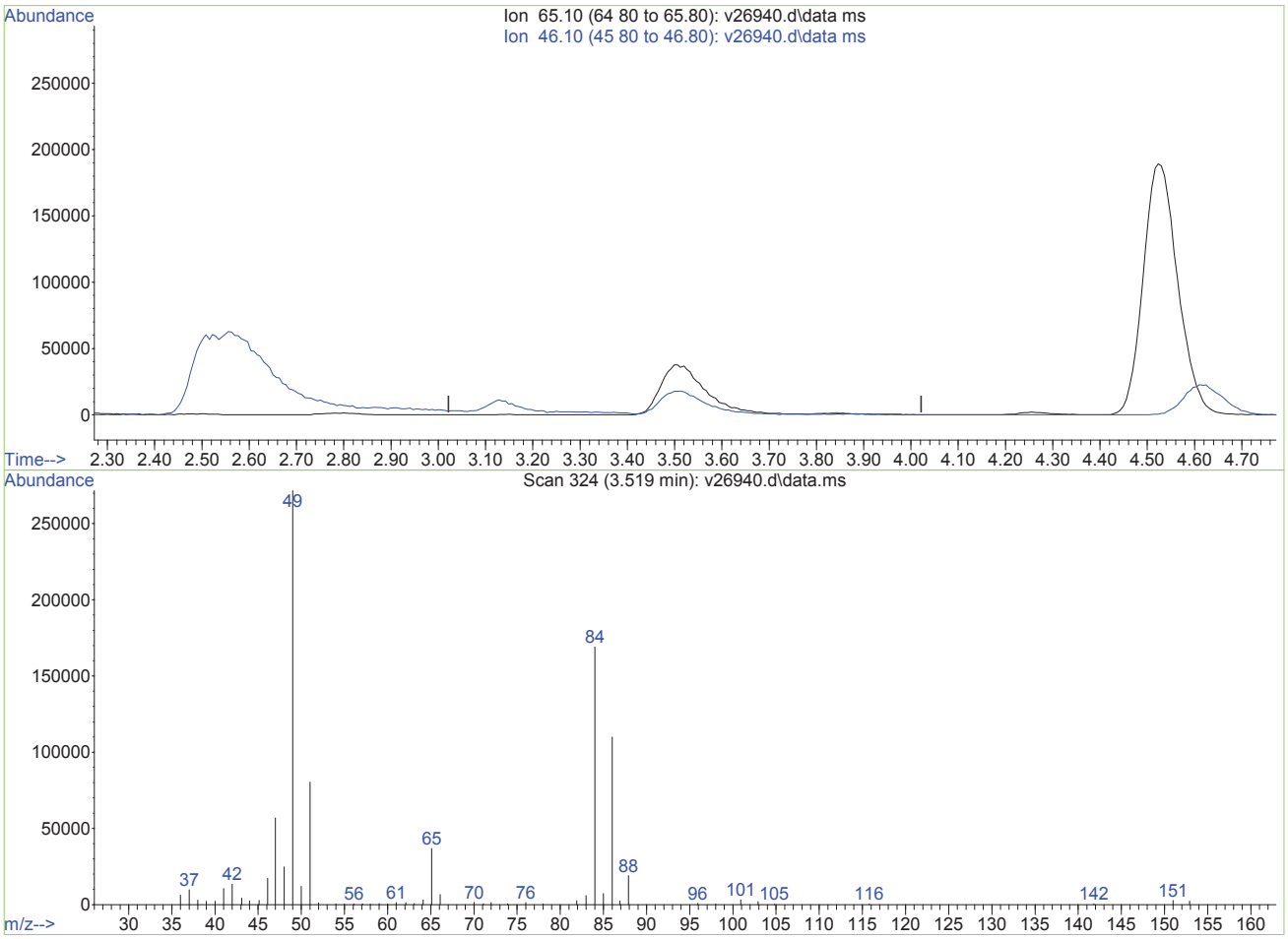
Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:56:38 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:50:05 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26940.d\data.ms

(1) tert butyl alcohol-d9 (I)

3.522min (-3.522) 0.00ug/L

response 0

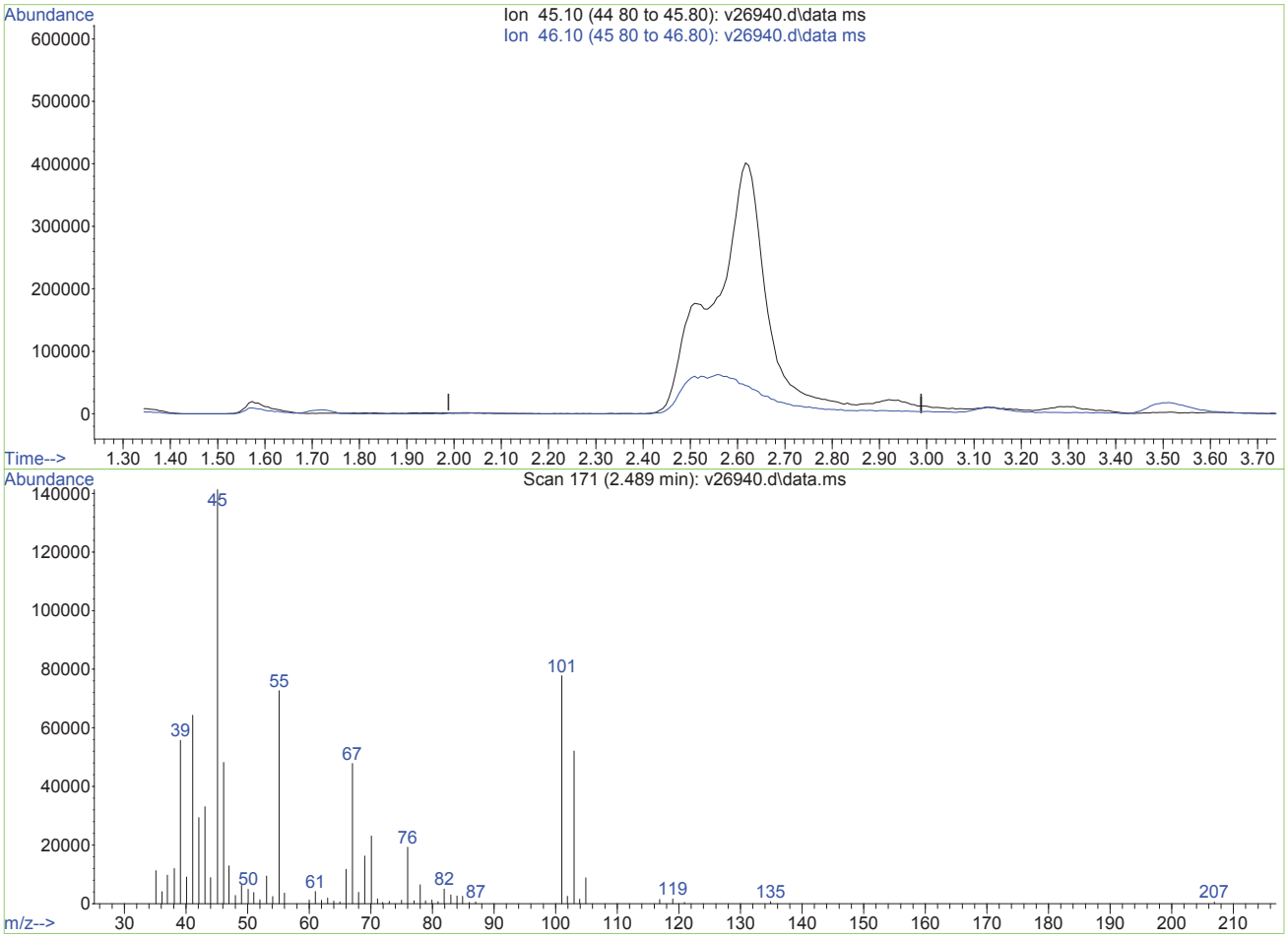
Ion	Exp%	Act%
65.10	100	0.00
46.10	54.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26940.D edits: tert butyl alcohol-d9

Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:50:05 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26940.d\data.ms

(2) Ethanol (p)

2.489min (-2.489) 0.00ug/L

response 0

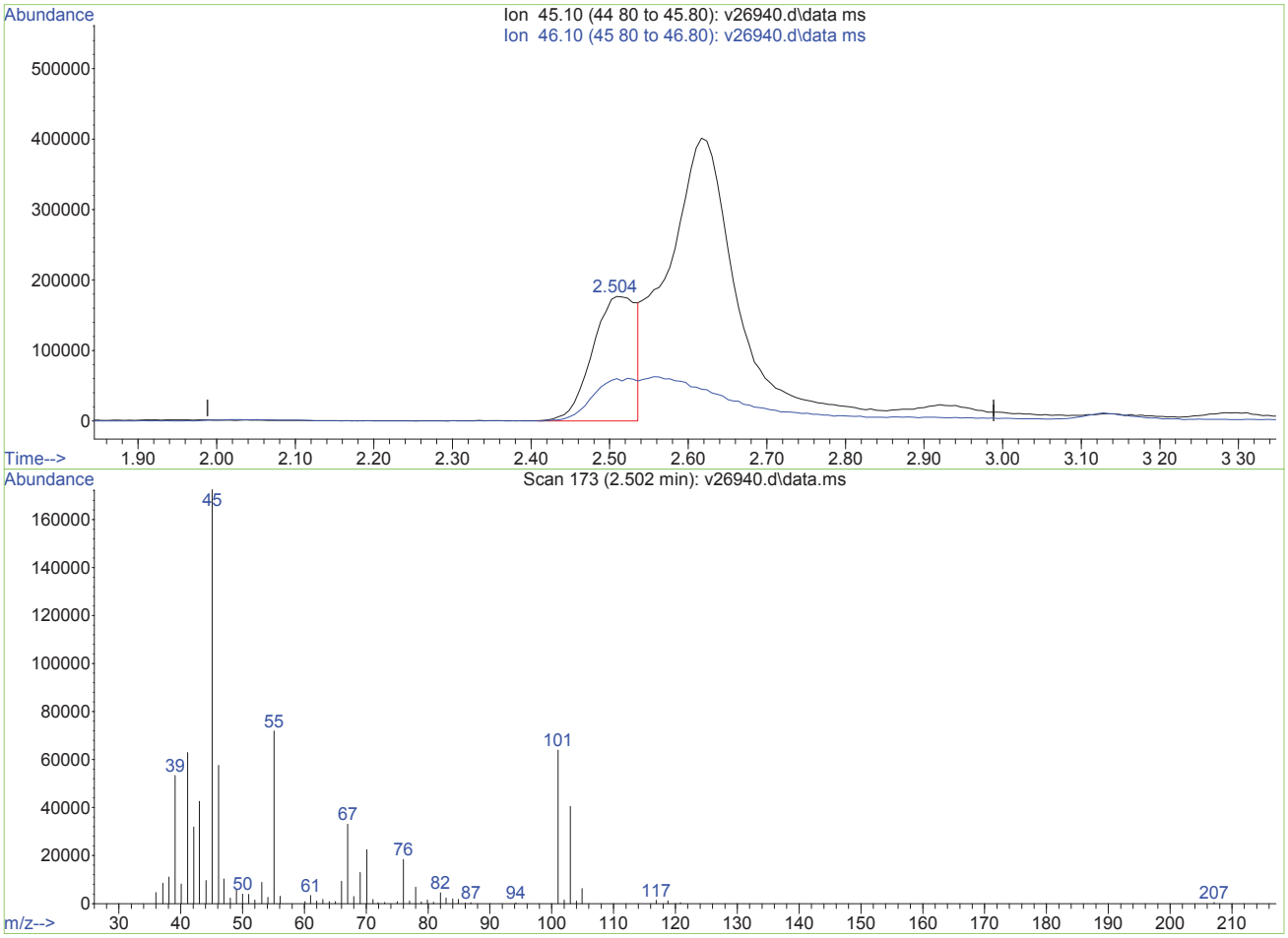
Ion	Exp%	Act%
45.10	100	0.00
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26940.D edits: Ethanol

SGS ACCUTEST MC28017

Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:50:05 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26940.d\data.ms

(2) Ethanol (p)

2.502min (+0.014) 19824.86ug/L m

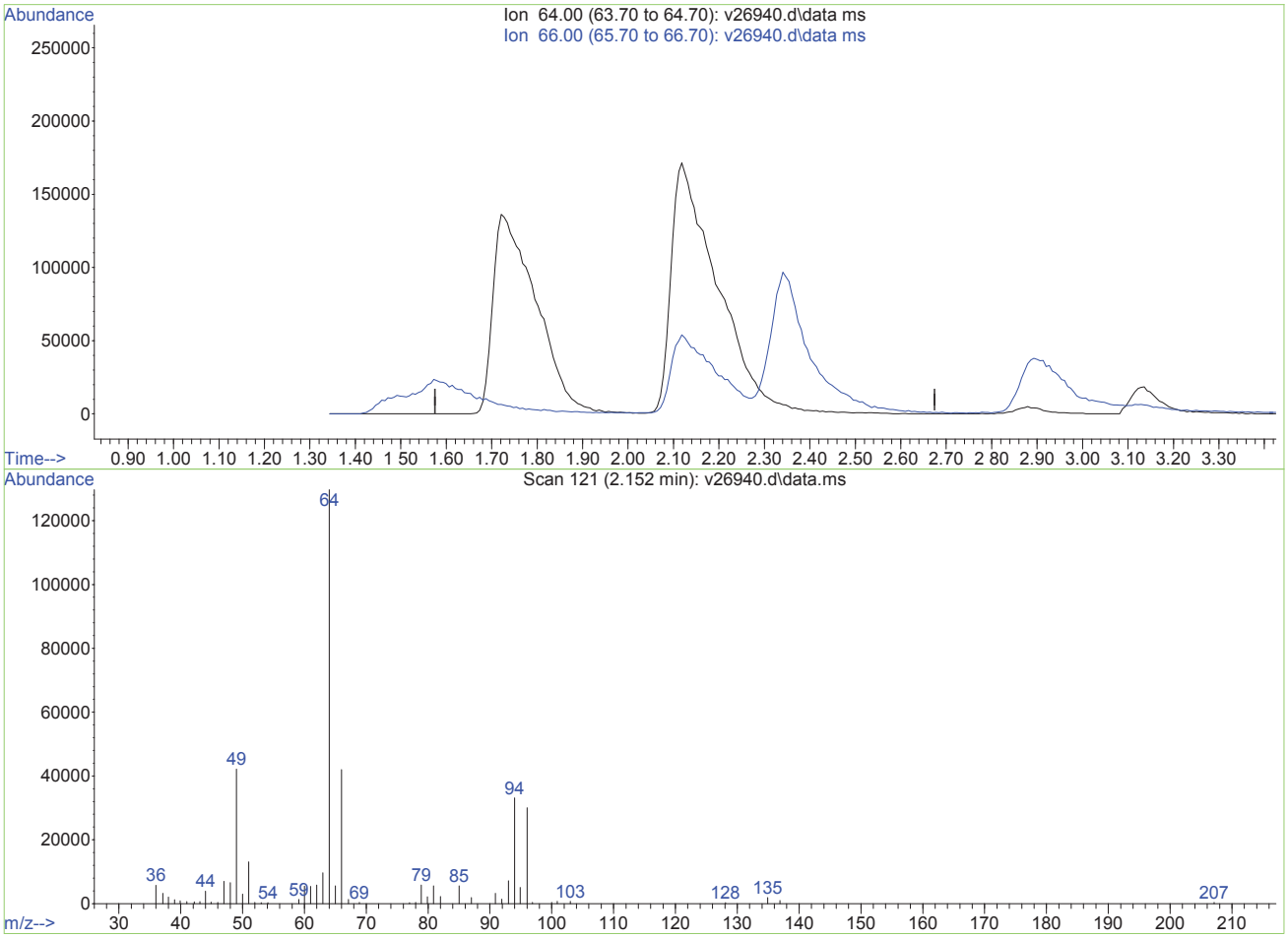
response 690608

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26940.D edits: Ethanol

Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:50:05 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26940.d\data.ms

(4) chloroethane (p)

2.155min (-2.155) 0.00ug/L

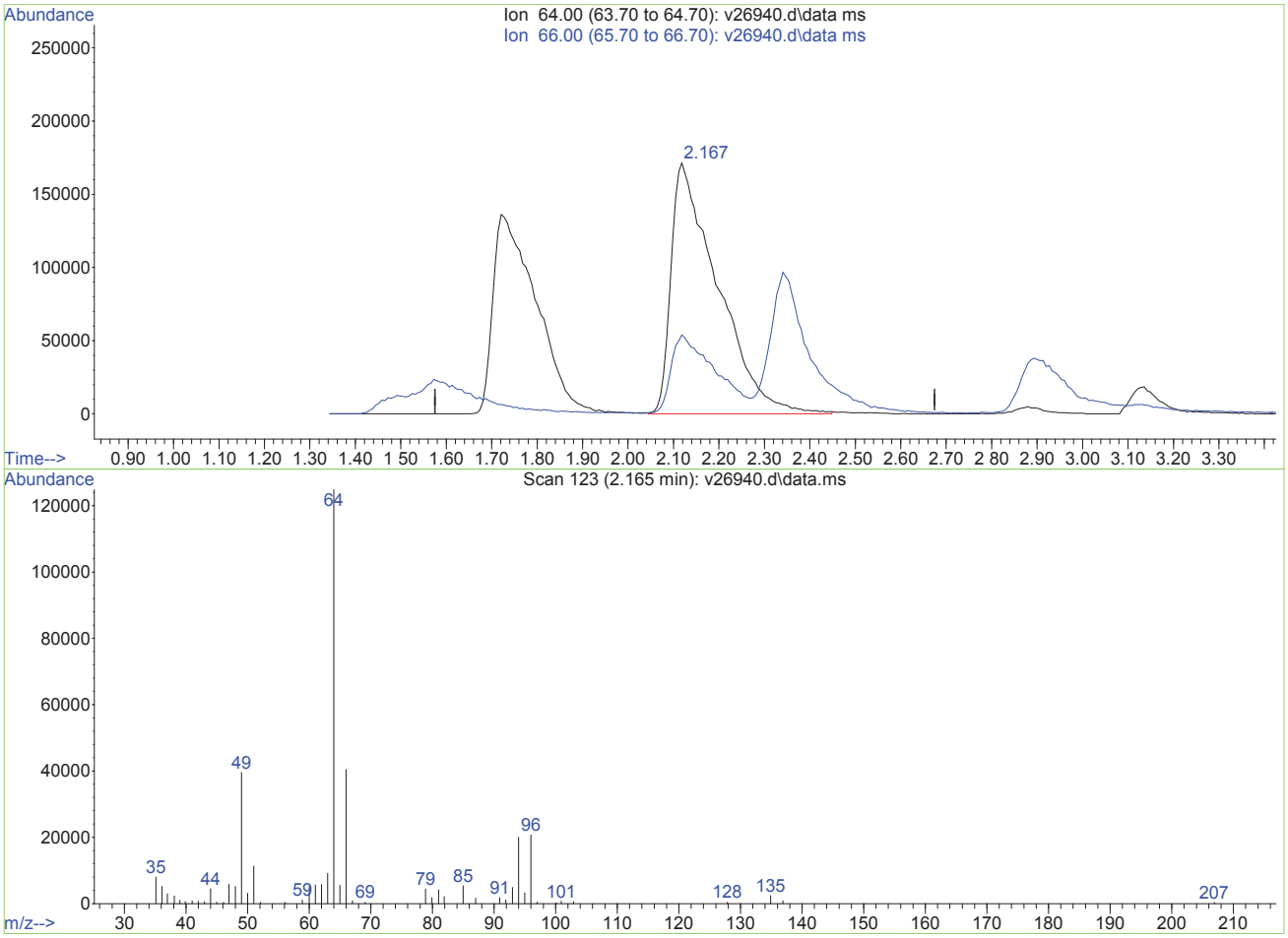
response 0

Ion	Exp%	Act%
64.00	100	0.00
66.00	34.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26940.D edits: chloroethane

Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:50:05 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26940.d\data.ms

(4) chloroethane (p)

2.165min (+0.010) 180.75ug/L m

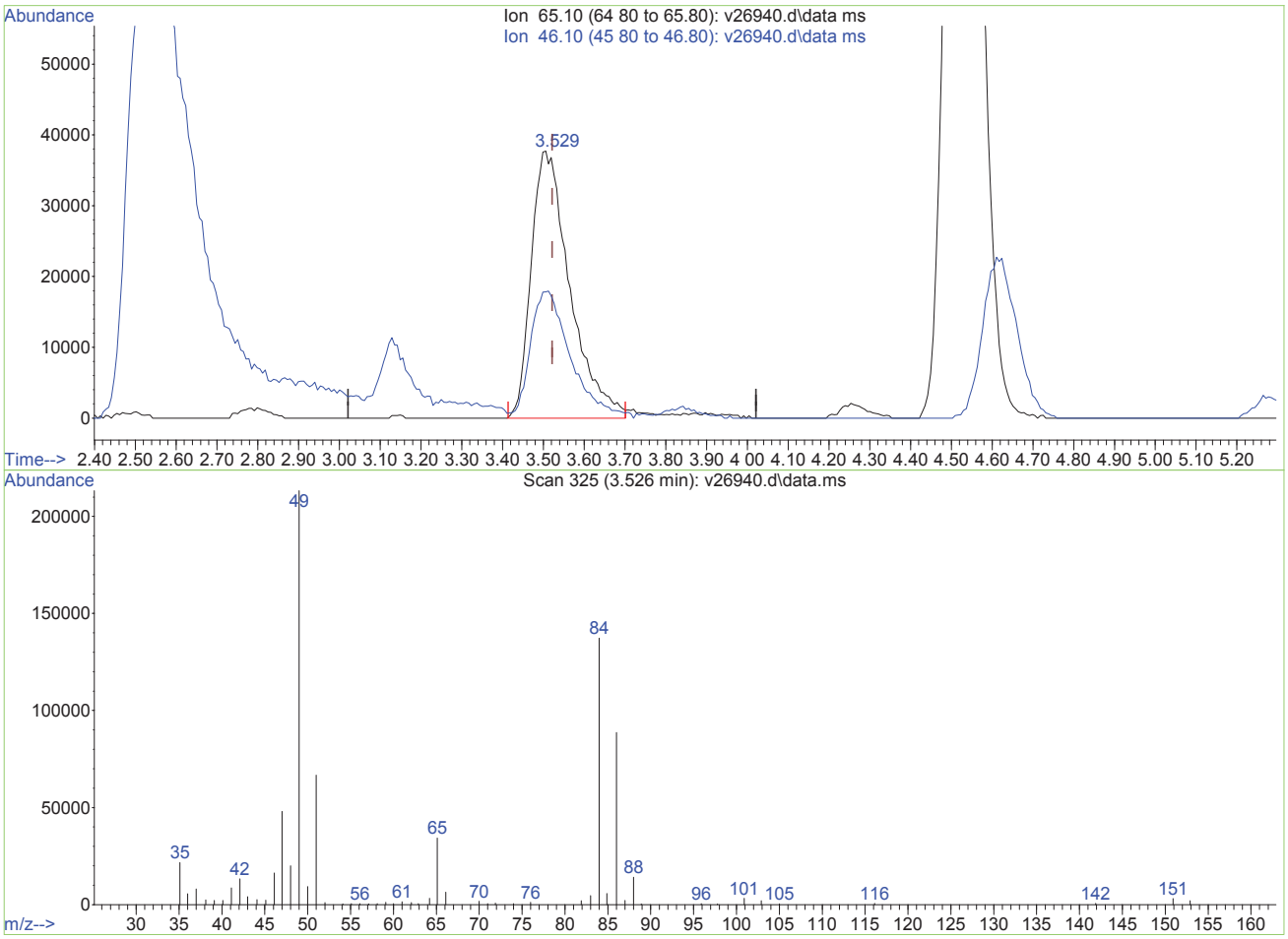
response 1217177

Ion	Exp%	Act%
64.00	100	100
66.00	34.60	32.37
0.00	0.00	0.00
0.00	0.00	0.00

V26940.D edits: chloroethane

Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:56:38 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26940.d\data.ms

(1) tert butyl alcohol-d9 (I)

3.526min (+0.004) 500.00ug/L m

response 248311

Ion	Exp%	Act%
65.10	100	100
46.10	54.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26940.D edits: tert butyl alcohol-d9

Data Path : O:\msv\1\databackup\v140107\
Data File : v26942.d
Acq On : 7 Jan 2014 5:47 pm
Operator : amym
Sample : ic1019-400
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

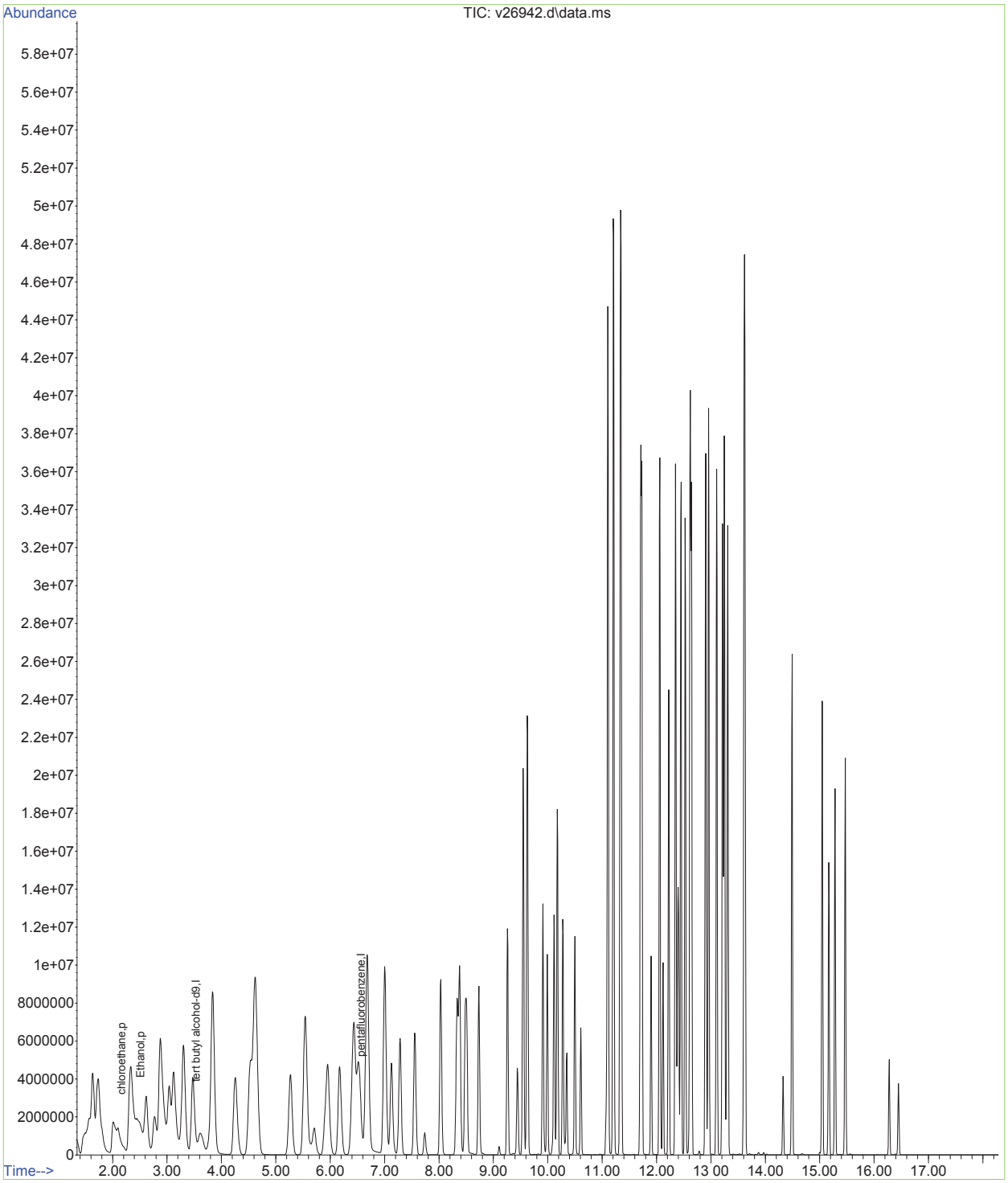
Quant Time: Oct 12 11:57:12 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.528	65	280929	500.00	ug/L	0.00
3) pentafluorobenzene	6.561	168	994052	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.509	45	1732790m	43966.69	ug/L	
4) chloroethane	2.160	64	2471921	305.53	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msv\1\databackup\v140107\
Data File : v26942.d
Acq On : 7 Jan 2014 5:47 pm
Operator : amym
Sample : ic1019-400
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

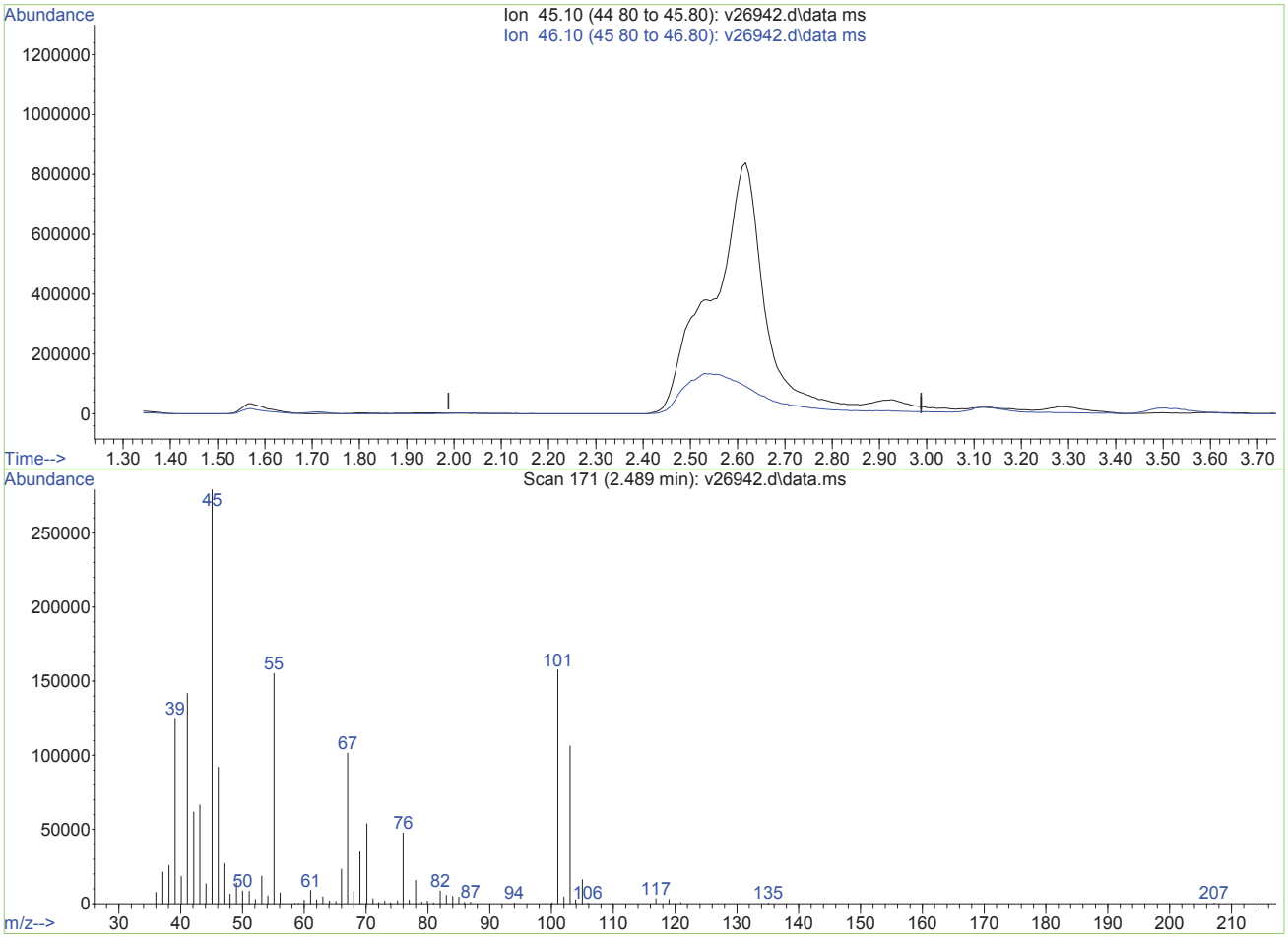
Quant Time: Oct 12 11:57:12 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26942.d
Acq On : 7 Jan 2014 5:47 pm
Operator : amym
Sample : ic1019-400
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 12 11:50:07 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26942.d\data.ms

(2) Ethanol (p)

2.489min (-2.489) 0.00ug/L

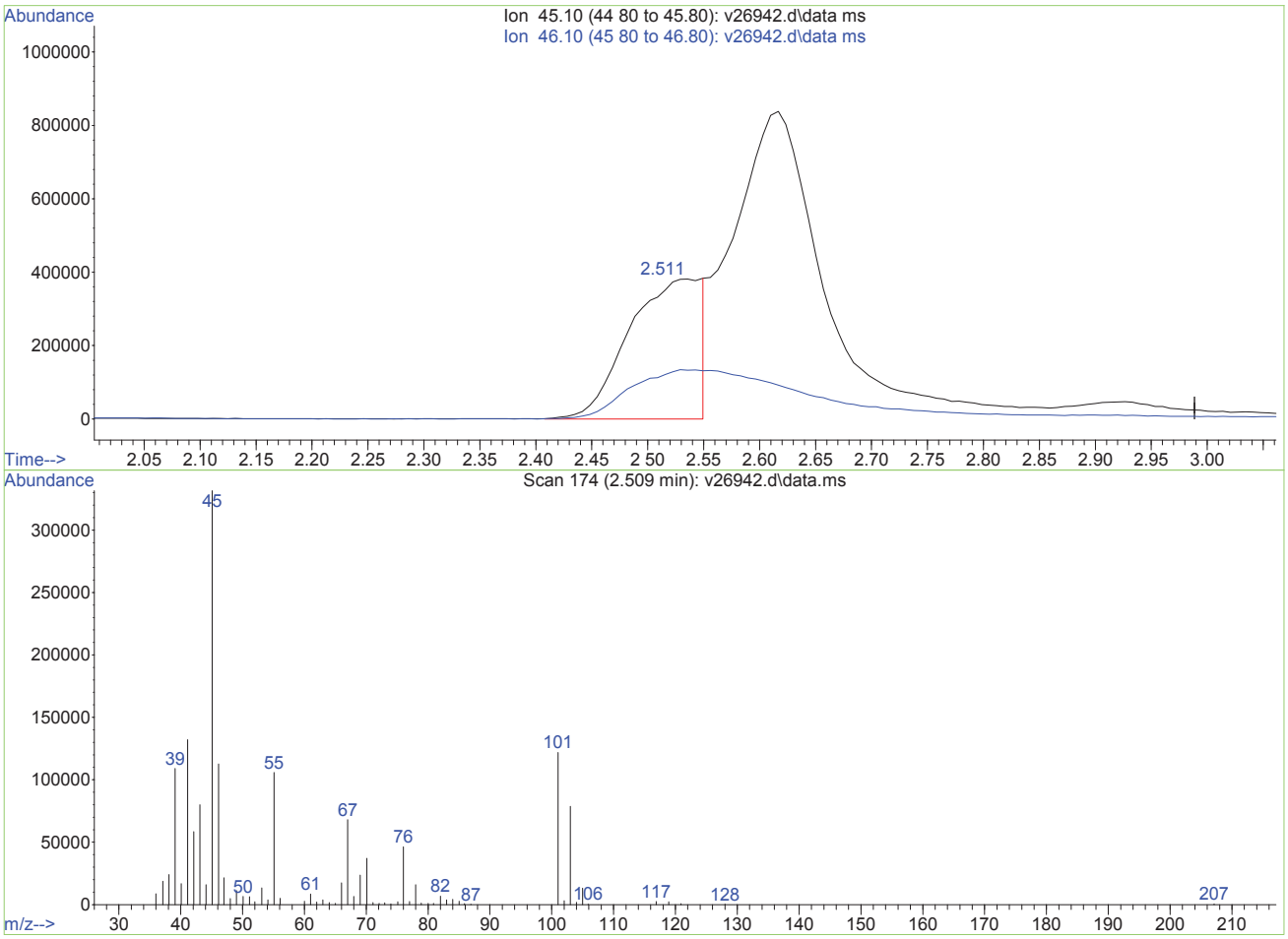
response 0

Ion	Exp%	Act%
45.10	100	0.00
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26942.D edits: Ethanol

Data Path : O:\msv\1\databackup\v140107\
Data File : v26942.d
Acq On : 7 Jan 2014 5:47 pm
Operator : amym
Sample : ic1019-400
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 12 11:50:07 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26942.d\data.ms

(2) Ethanol (p)

2.509min (+0.020) 43966.69ug/L m

response 1732790

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26942.D edits: Ethanol

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26944.d
Acq On : 7 Jan 2014 7:05 pm
Operator : amym
Sample : icv1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 12 12:04:13 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

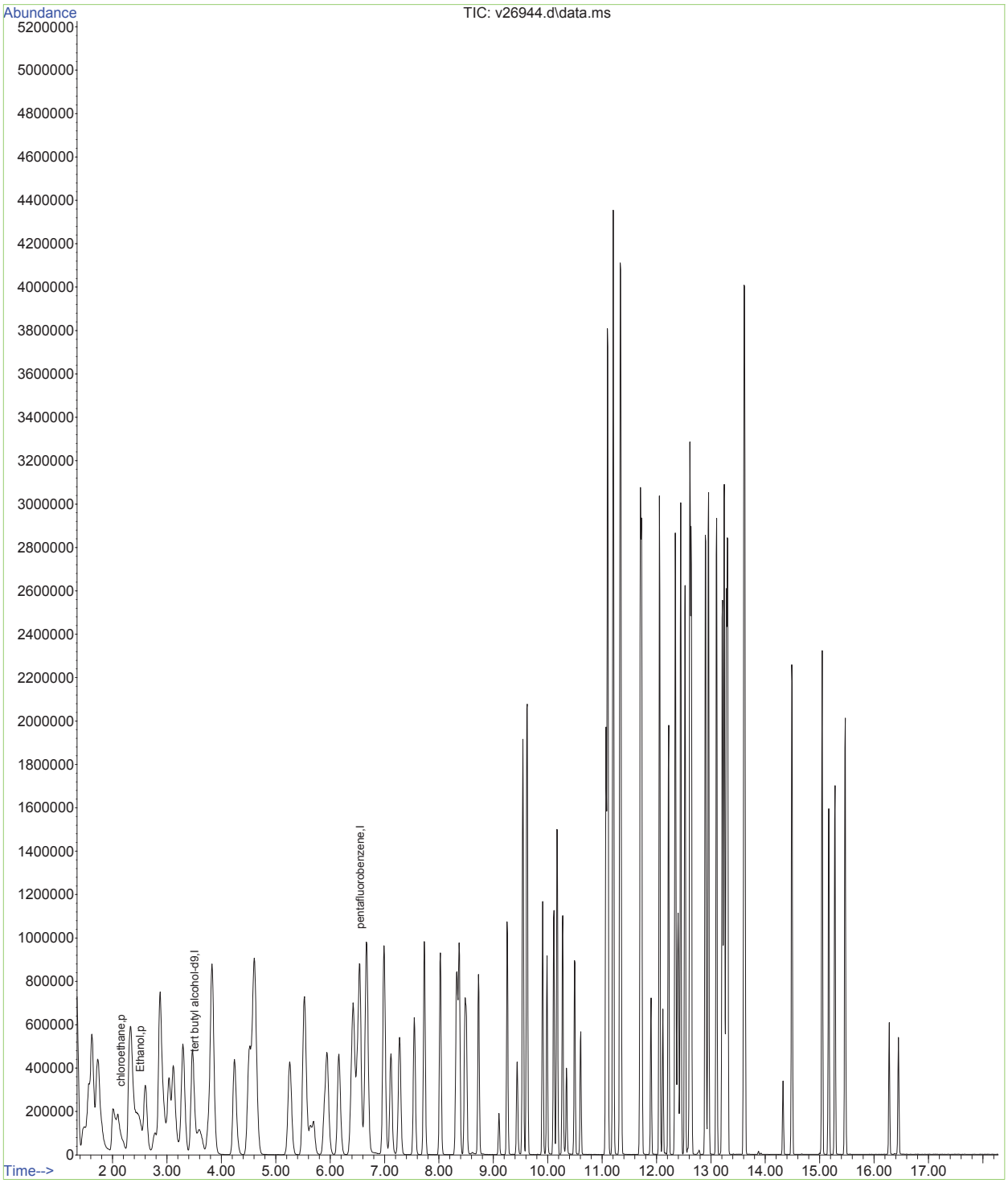
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.508	65	215524	500.00	ug/L	-0.01
3) pentafluorobenzene	6.550	168	735695	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.502	45	219095m	6281.66	ug/L	
4) chloroethane	2.149	64	314843	55.64	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST MC28017

Data Path : O:\msv\1\databackup\v140107\
Data File : v26944.d
Acq On : 7 Jan 2014 7:05 pm
Operator : amym
Sample : icv1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 12 12:04:13 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

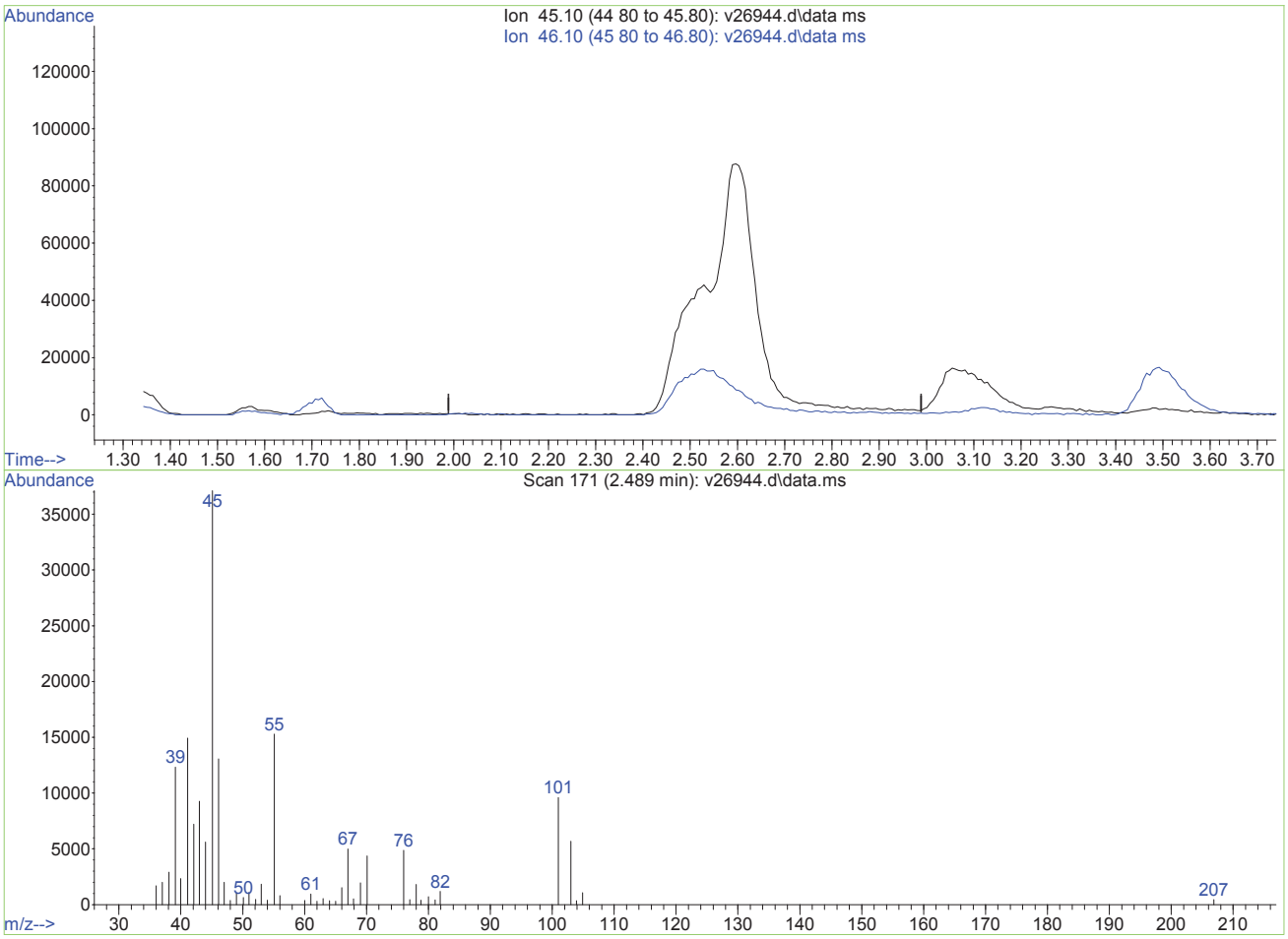


SGS ACCUTEST MC28017

Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26944.d
Acq On : 7 Jan 2014 7:05 pm
Operator : amym
Sample : icv1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 12 12:03:55 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



TIC: v26944.d\data.ms

(2) Ethanol (p)

2.489min (-2.489) 0.00ug/L

response 0

Ion	Exp%	Act%
45.10	100	0.00
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

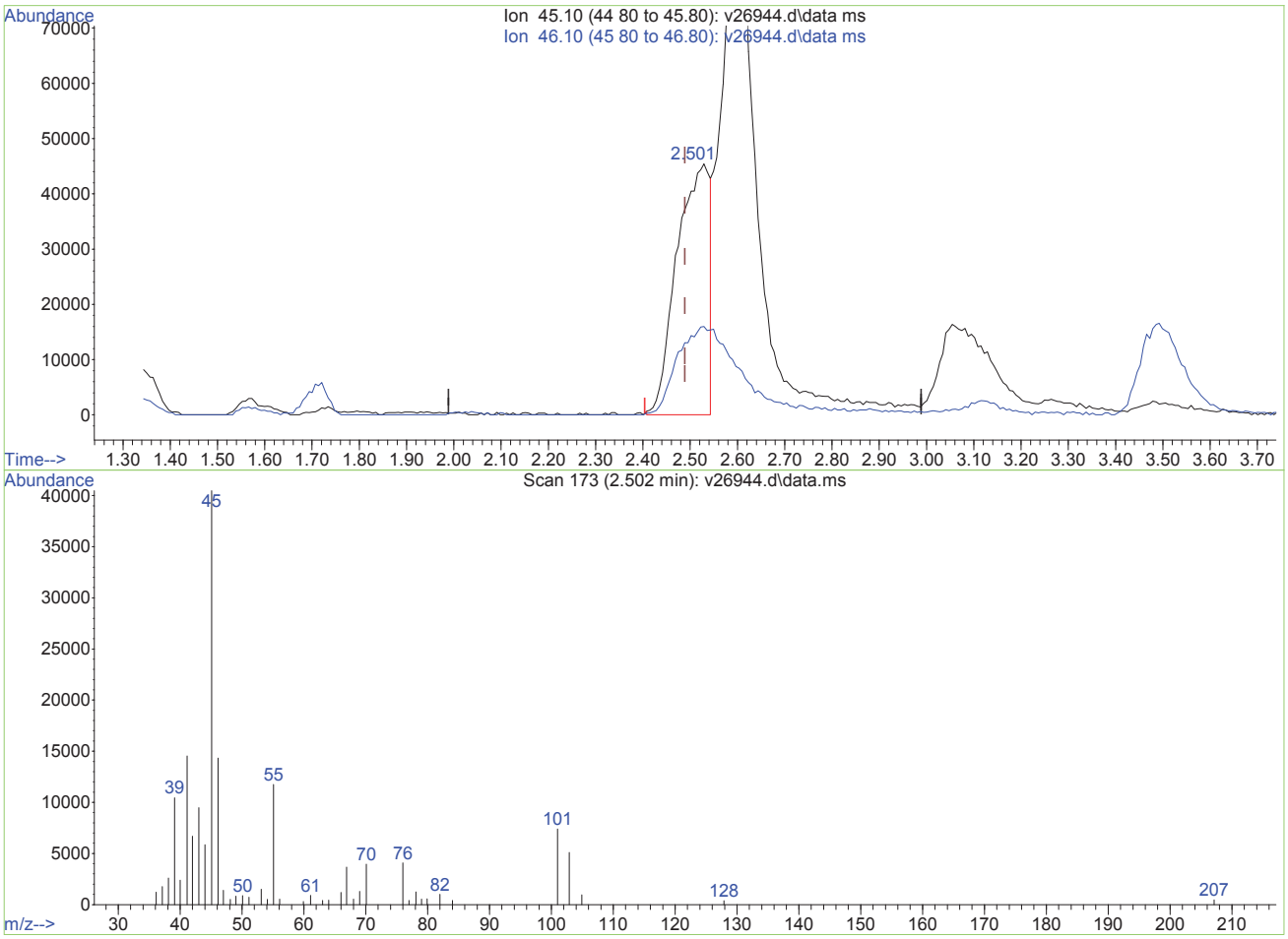
V26944.D edits: Ethanol

SGS ACCUTEST MC28017

Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26944.d
Acq On : 7 Jan 2014 7:05 pm
Operator : amym
Sample : icv1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 12 12:03:55 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



TIC: v26944.d\data.ms

(2) Ethanol (p)

2.502min (+0.013) 6281.66ug/L m

response 219095

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26944.D edits: Ethanol

SGS ACCUTEST MC28017

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140210\
Data File : v27750.d
Acq On : 10 Feb 2014 9:10 am
Operator : amym
Sample : cc1019-50
Misc : MS31098,MSV1046,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 20 08:47:13 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

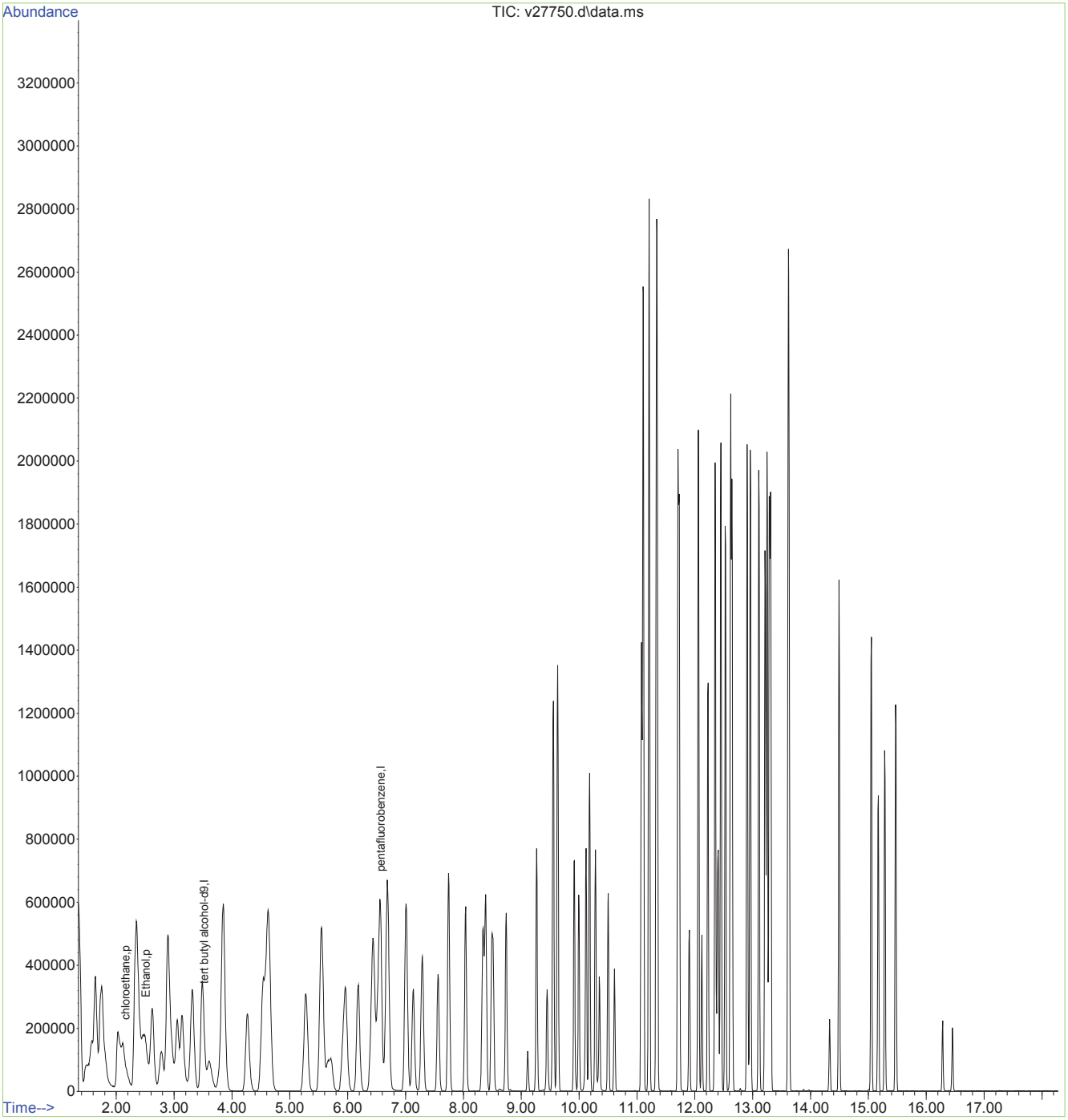
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.517	65	174408	500.00	ug/L	0.00
3) pentafluorobenzene	6.568	168	534127	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.509	45	253923m	9203.60	ug/L	
4) chloroethane	2.162	64	237597	57.87	ug/L	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140210\
Data File : v27750.d
Acq On : 10 Feb 2014 9:10 am
Operator : amym
Sample : cc1019-50
Misc : MS31098,MSV1046,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

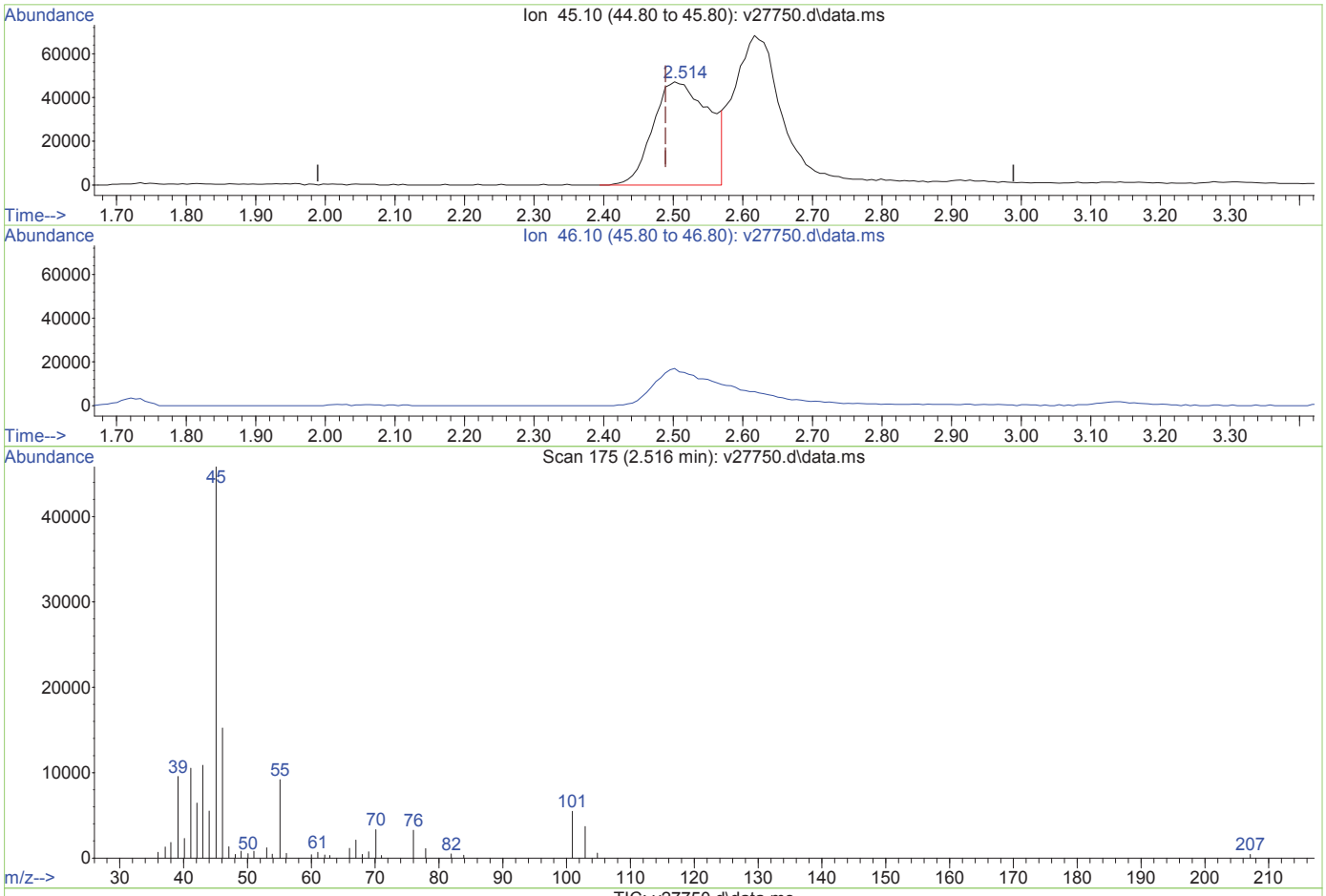
Quant Time: Nov 20 08:47:13 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140210\
Data File : v27750.d
Acq On : 10 Feb 2014 9:10 am
Operator : amym
Sample : cc1019-50
Misc : MS31098,MSV1046,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 20 08:46:07 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



TIC: v27750.d\data.ms

(2) Ethanol (p)

2.514min (+0.025) 9729.19ug/L

response 267706

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

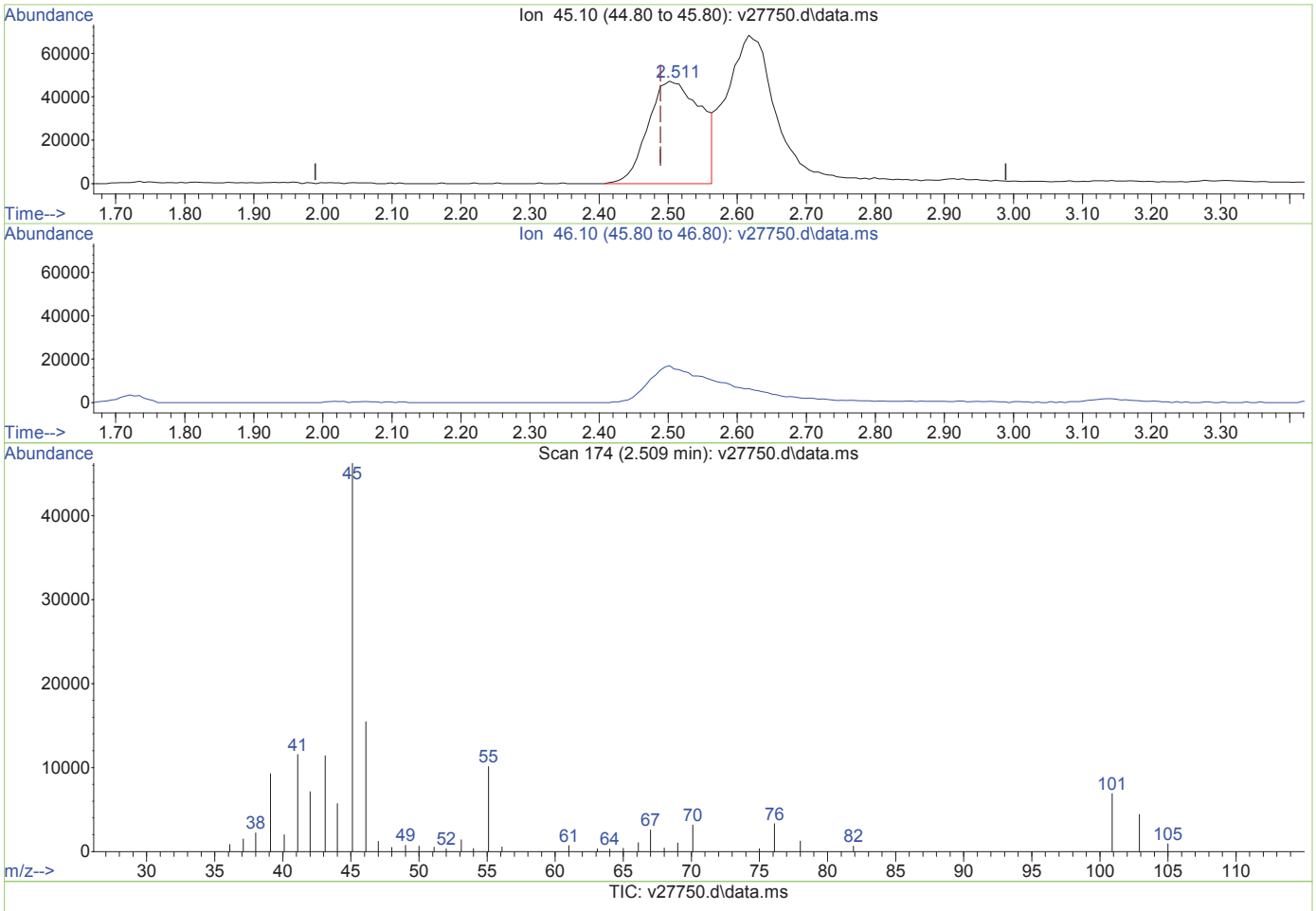
V27750.D edits: Ethanol

SGS ACCUTEST MC28017

Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140210\
Data File : v27750.d
Acq On : 10 Feb 2014 9:10 am
Operator : amym
Sample : cc1019-50
Misc : MS31098,MSV1046,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 20 08:46:07 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



TIC: v27750.d\data.ms

(2) Ethanol (p)

2.509min (+0.020) 9203.60ug/L m

response 253923

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V27750.D edits: Ethanol

SGS ACCUTEST MC28017

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140210\
Data File : v27755.d
Acq On : 10 Feb 2014 11:23 am
Operator : amym
Sample : mc28017-5
Misc : MS31103,MSV1046,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 20 08:50:36 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.518	65	134097	500.00	ug/L	0.00
3) pentafluorobenzene	6.566	168	455638	50.00	ug/L	0.00

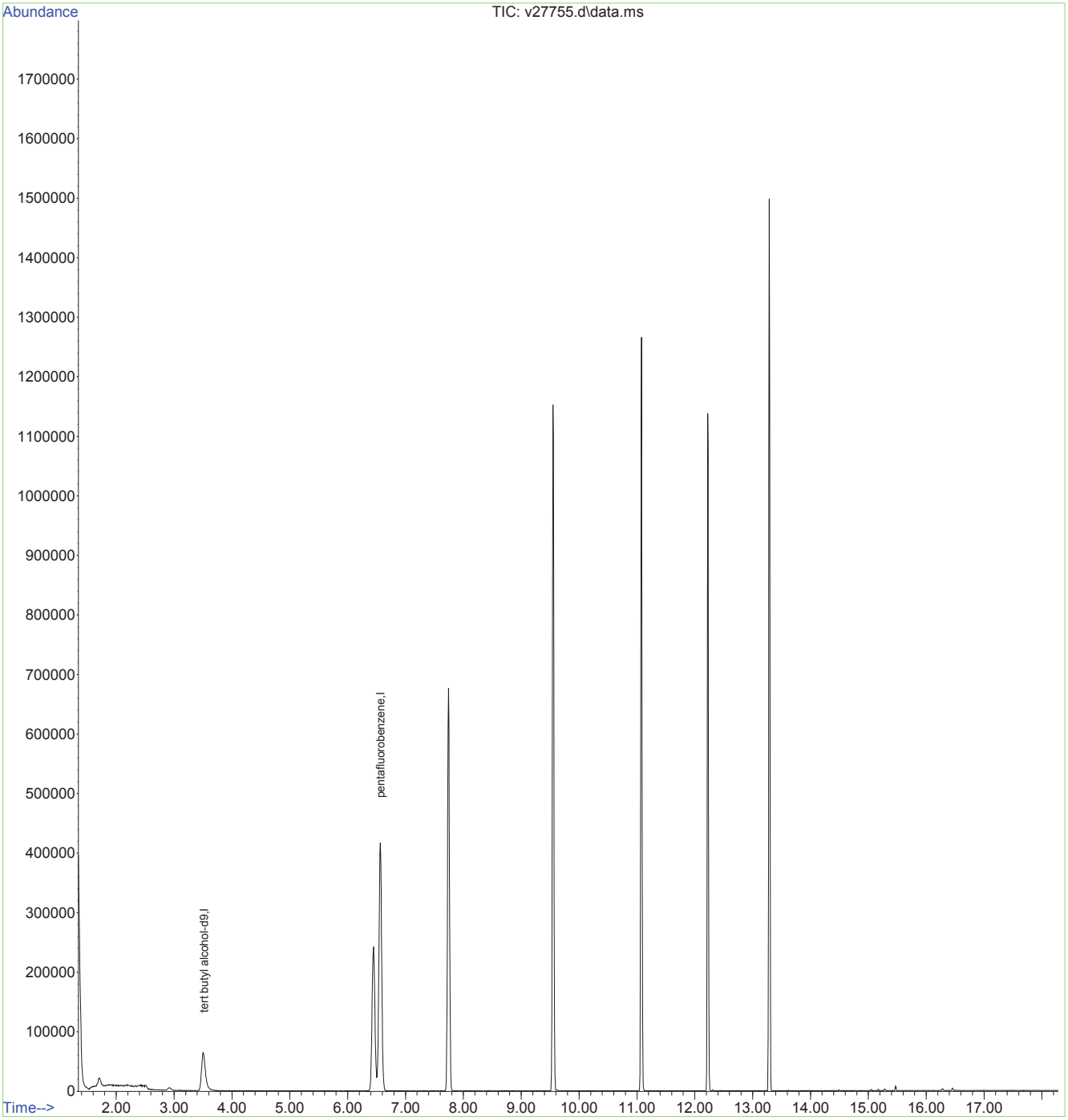
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140210\
Data File : v27755.d
Acq On : 10 Feb 2014 11:23 am
Operator : amym
Sample : mc28017-5
Misc : MS31103,MSV1046,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 20 08:50:36 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140210\
Data File : v27761.d
Acq On : 10 Feb 2014 2:01 pm
Operator : amym
Sample : mc28017-1
Misc : MS31103,MSV1046,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 20 08:52:51 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.526	65	168751	500.00	ug/L	0.00
3) pentafluorobenzene	6.566	168	515114	50.00	ug/L	0.00

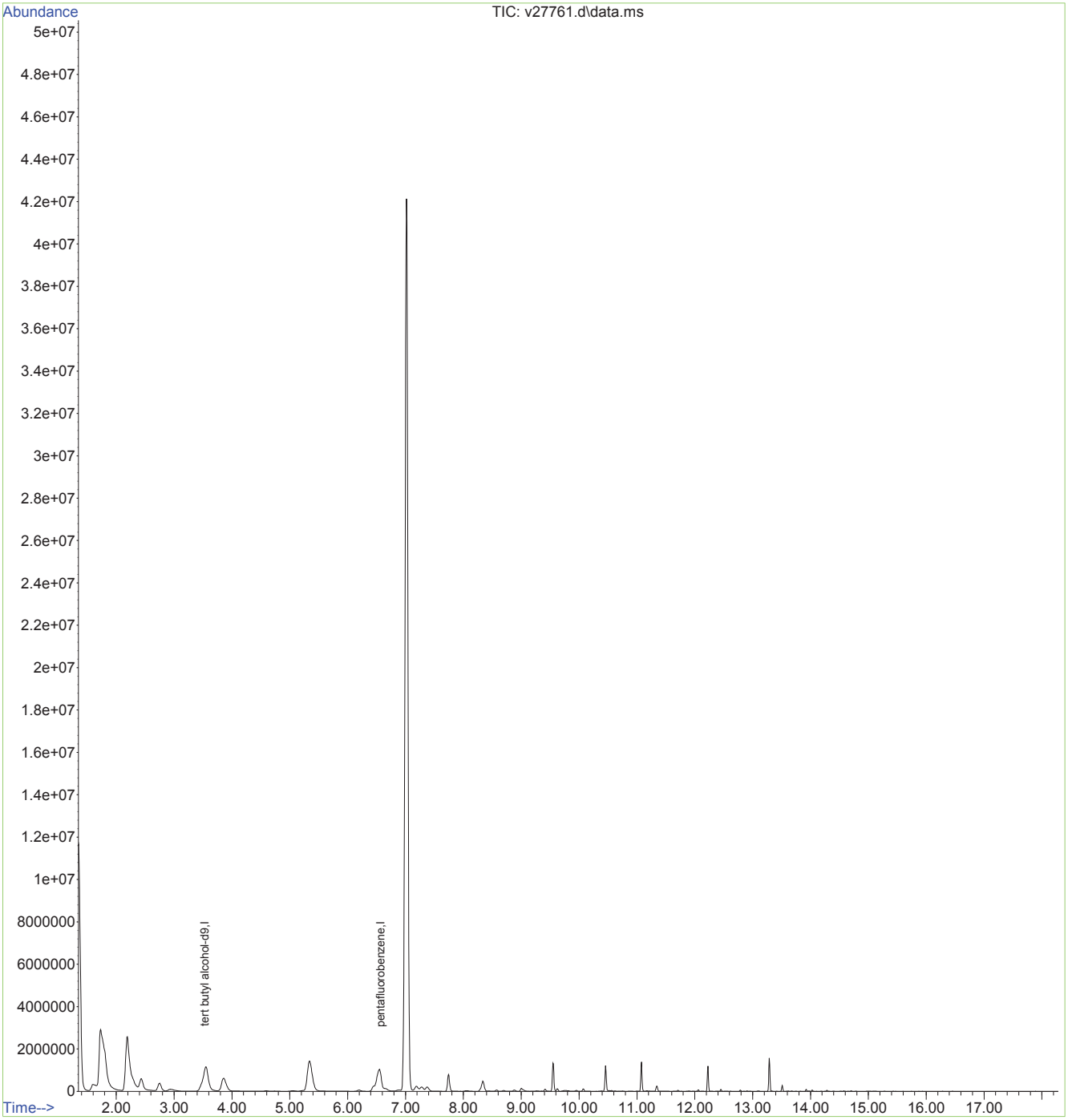
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140210\
Data File : v27761.d
Acq On : 10 Feb 2014 2:01 pm
Operator : amym
Sample : mc28017-1
Misc : MS31103,MSV1046,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 20 08:52:51 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140210\
Data File : v27768.d
Acq On : 10 Feb 2014 5:06 pm
Operator : amym
Sample : mc28017-2
Misc : MS31103,MSV1046,,,,5,2500
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Nov 20 08:54:02 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.513	65	111507	500.00	ug/L	0.00
3) pentafluorobenzene	6.560	168	383915	50.00	ug/L	0.00

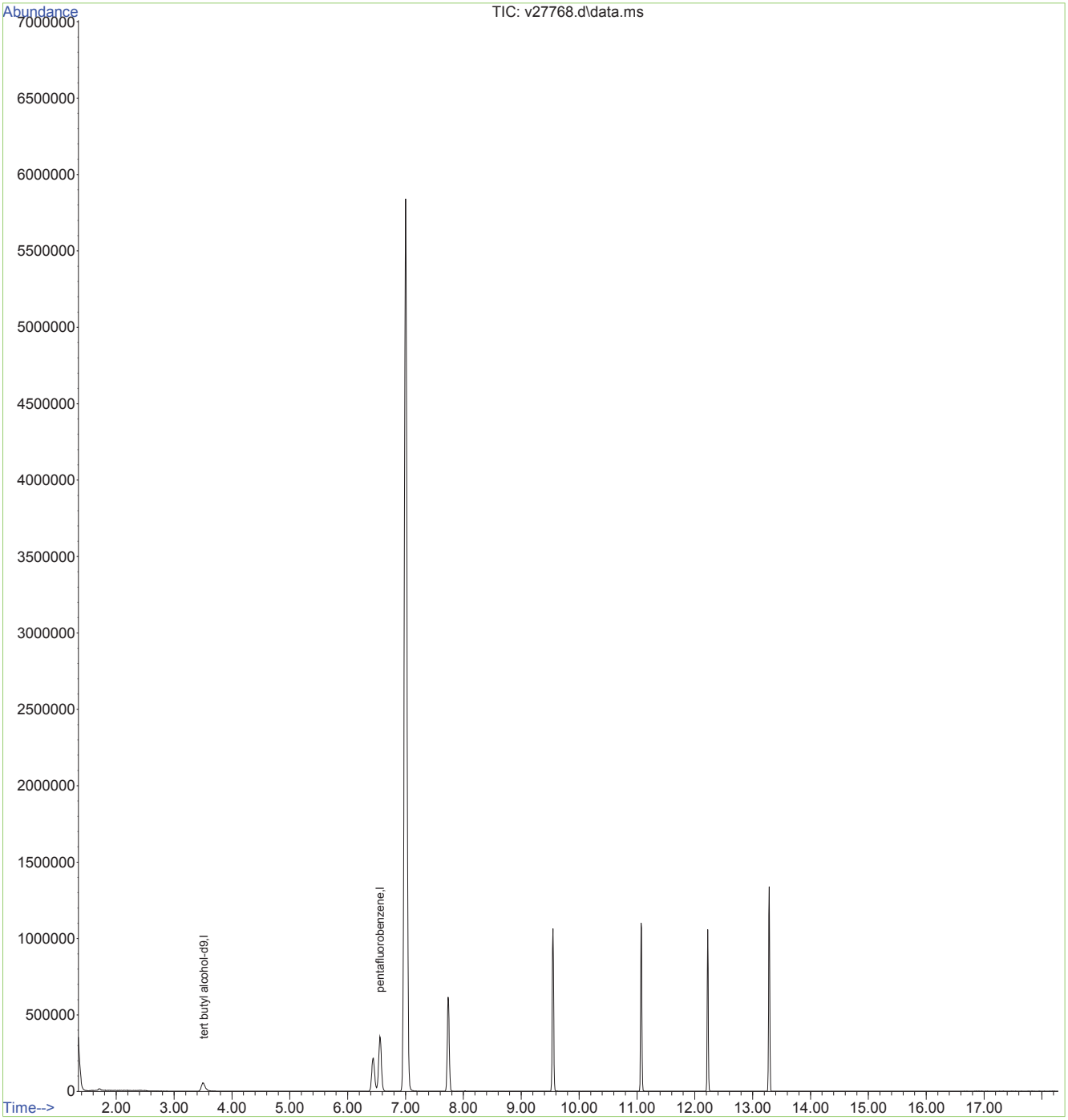
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140210\
Data File : v27768.d
Acq On : 10 Feb 2014 5:06 pm
Operator : amym
Sample : mc28017-2
Misc : MS31103,MSV1046,,,,5,2500
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Nov 20 08:54:02 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140210\
Data File : v27769.d
Acq On : 10 Feb 2014 5:33 pm
Operator : amym
Sample : mc28017-3
Misc : MS31103,MSV1046,,,,5,2500
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Nov 20 08:54:18 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.514	65	104615	500.00	ug/L	0.00
3) pentafluorobenzene	6.561	168	373133	50.00	ug/L	0.00

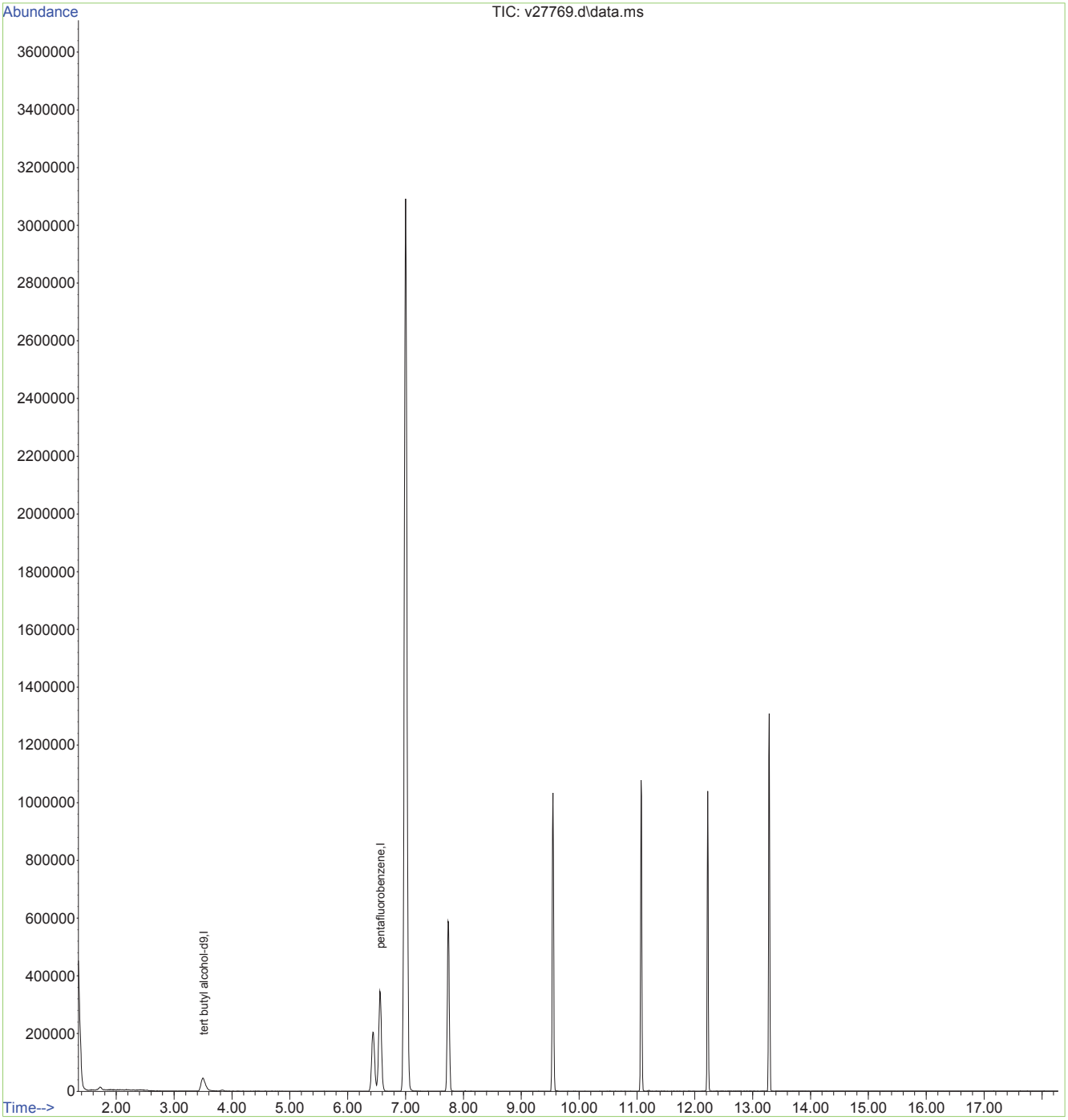
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140210\
Data File : v27769.d
Acq On : 10 Feb 2014 5:33 pm
Operator : amym
Sample : mc28017-3
Misc : MS31103,MSV1046,,,,5,2500
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Nov 20 08:54:18 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140210\
Data File : v27770.d
Acq On : 10 Feb 2014 5:59 pm
Operator : amym
Sample : mc28017-4
Misc : MS31103,MSV1046,,,,5,2500
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Nov 20 08:54:59 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.517	65	111898	500.00	ug/L	0.00
3) pentafluorobenzene	6.563	168	362619	50.00	ug/L	0.00

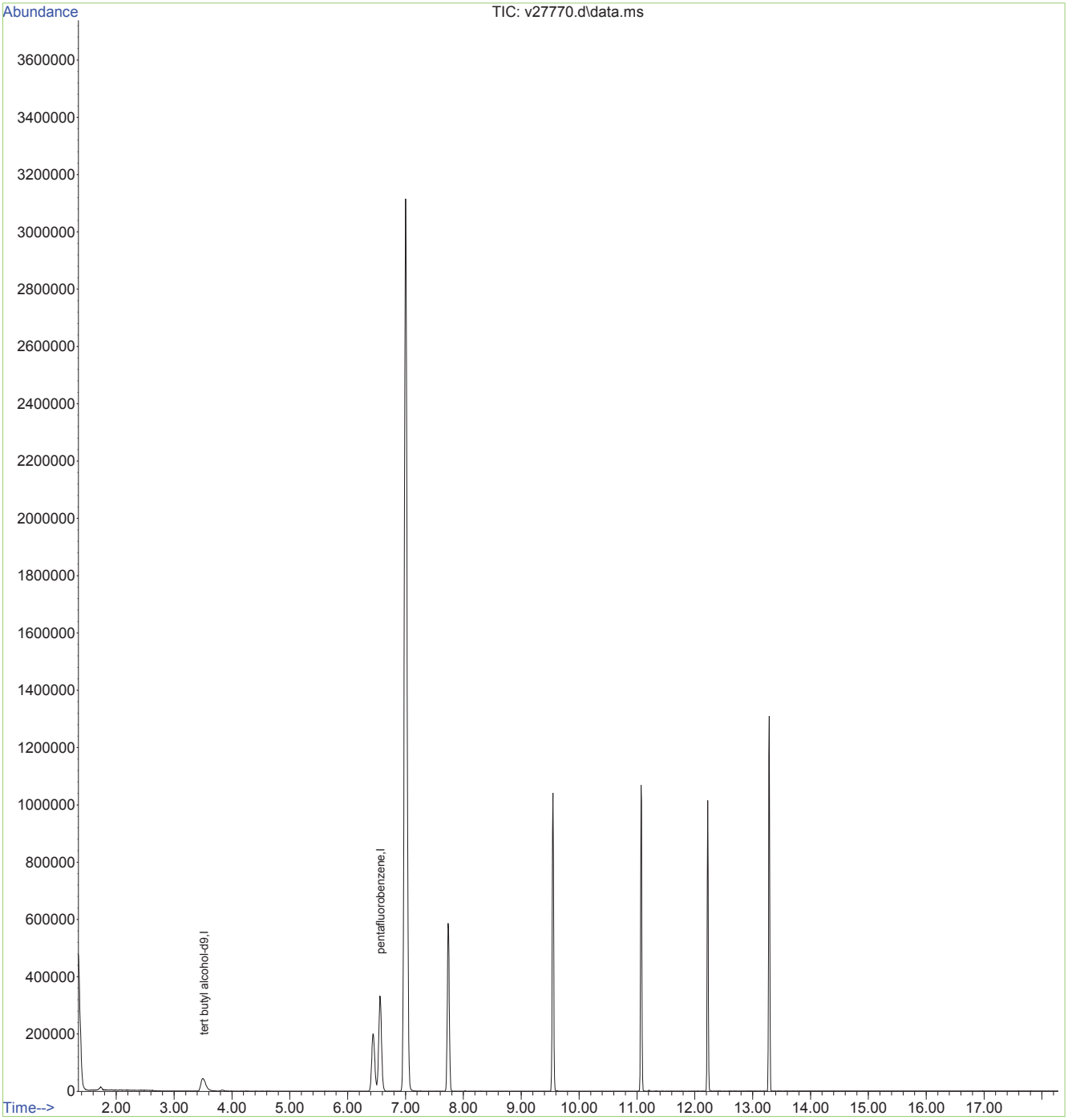
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140210\
Data File : v27770.d
Acq On : 10 Feb 2014 5:59 pm
Operator : amym
Sample : mc28017-4
Misc : MS31103,MSV1046,,,,5,2500
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Nov 20 08:54:59 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140210\
Data File : v27751.d
Acq On : 10 Feb 2014 9:37 am
Operator : amym
Sample : bs
Misc : MS31098,MSV1046,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 20 08:48:50 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

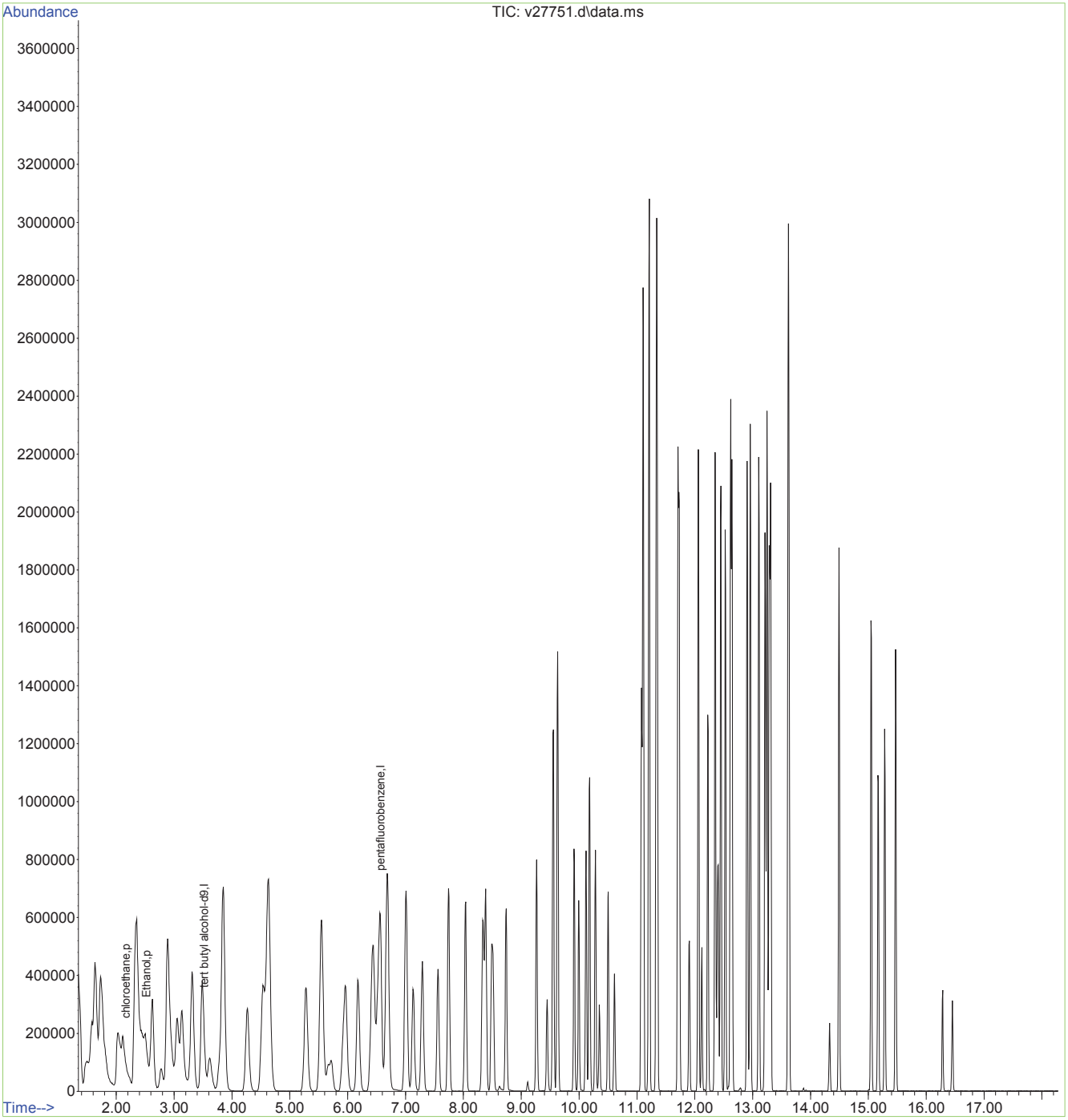
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.517	65	154033	500.00	ug/L	0.00
3) pentafluorobenzene	6.566	168	532374	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.516	45	258912	10699.82	ug/L #	1
4) chloroethane	2.166	64	291622	71.46	ug/L	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140210\
Data File : v27751.d
Acq On : 10 Feb 2014 9:37 am
Operator : amym
Sample : bs
Misc : MS31098,MSV1046,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 20 08:48:50 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140210\
Data File : v27752.d
Acq On : 10 Feb 2014 10:03 am
Operator : amym
Sample : bsd
Misc : MS31098,MSV1046,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 20 08:49:29 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

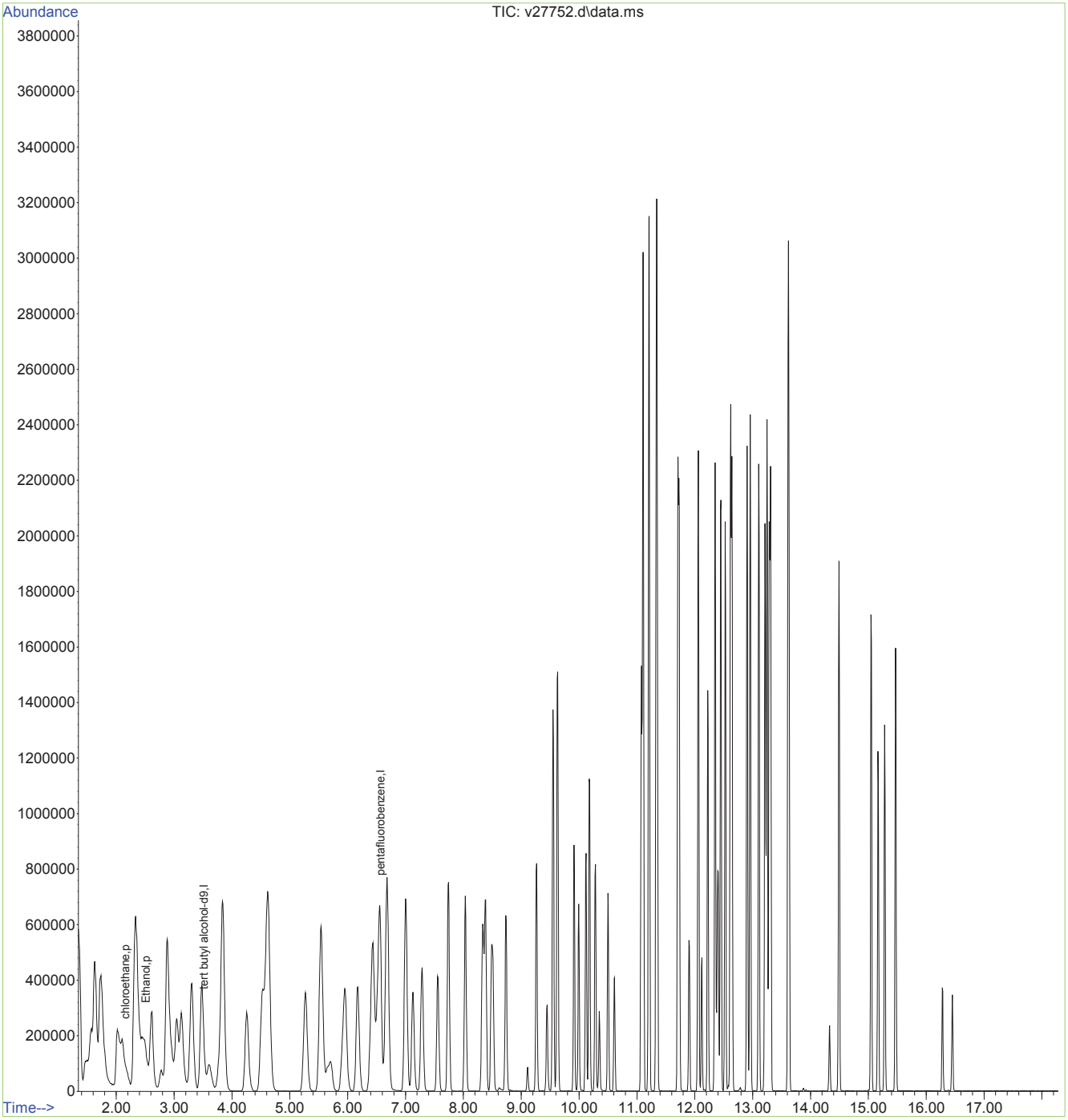
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.514	65	163827	500.00	ug/L	0.00
3) pentafluorobenzene	6.561	168	584611	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.508	45	242934	9382.87	ug/L	# 1
4) chloroethane	2.149	64	298502	66.55	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140210\
Data File : v27752.d
Acq On : 10 Feb 2014 10:03 am
Operator : amym
Sample : bsd
Misc : MS31098,MSV1046,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 20 08:49:29 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140210\
Data File : v27754.d
Acq On : 10 Feb 2014 10:56 am
Operator : amym
Sample : mb
Misc : MS31103,MSV1046,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 20 08:49:52 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.516	65	170093	500.00	ug/L	0.00
3) pentafluorobenzene	6.565	168	466795	50.00	ug/L	0.00

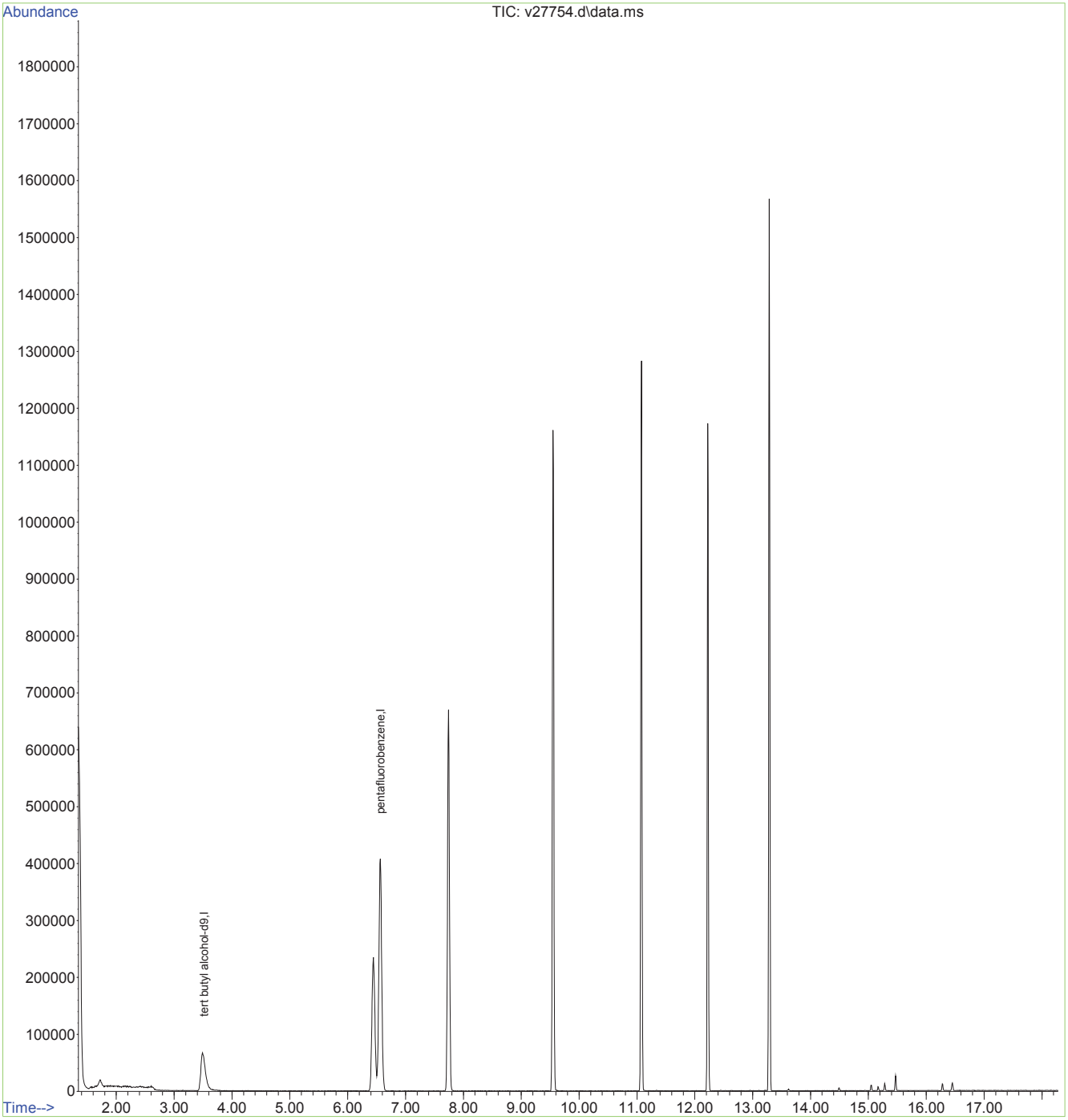
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140210\
Data File : v27754.d
Acq On : 10 Feb 2014 10:56 am
Operator : amym
Sample : mb
Misc : MS31103,MSV1046,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 20 08:49:52 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140210\
Data File : v27771.d
Acq On : 10 Feb 2014 6:25 pm
Operator : amym
Sample : mc28113-4ms
Misc : MS31098,MSV1046,,,,5,5
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Nov 20 08:55:21 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

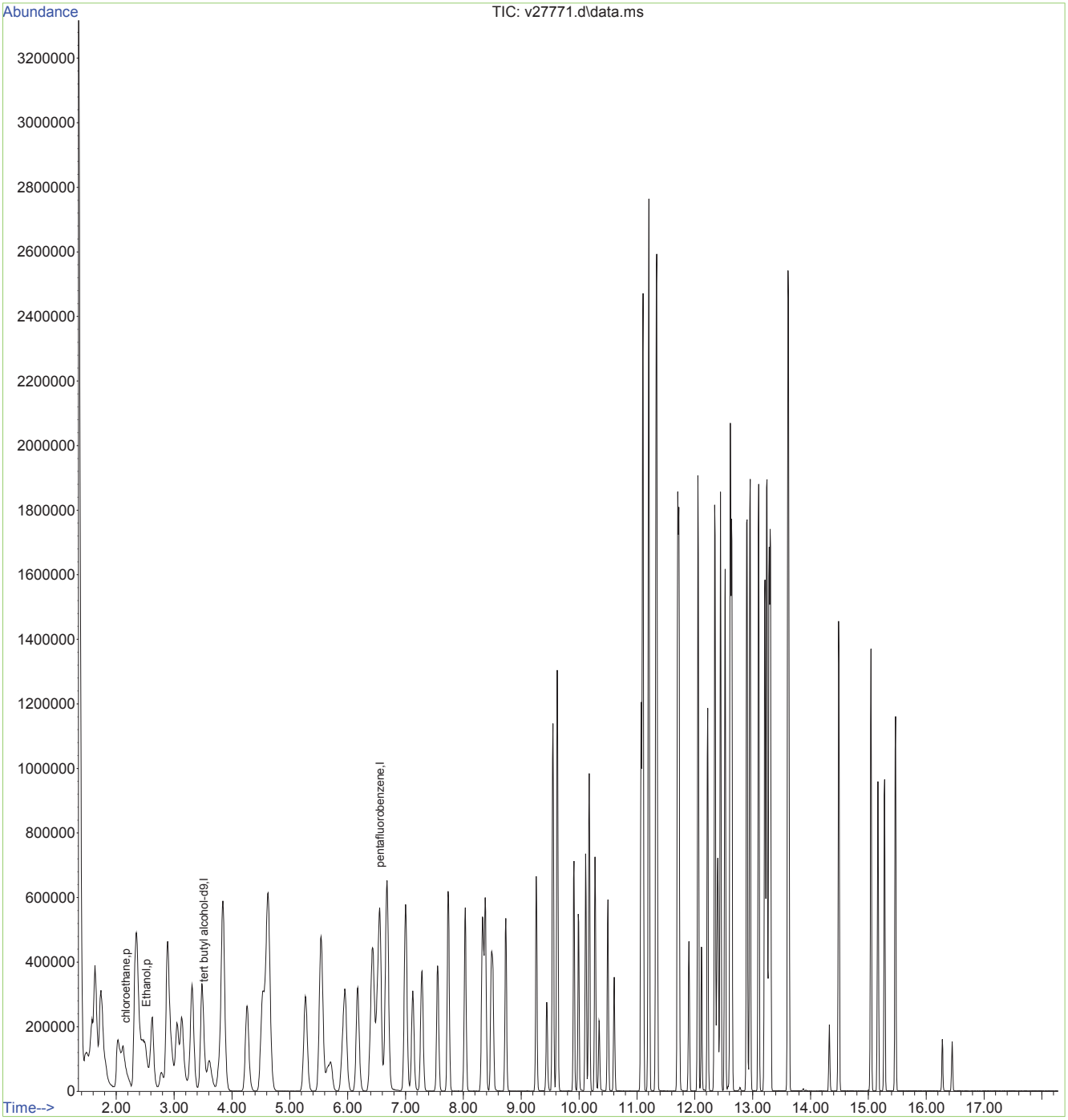
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.514	65	143781	500.00	ug/L	0.00
3) pentafluorobenzene	6.560	168	470549	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.515	45	206234	9060.27	ug/L	# 1
4) chloroethane	2.163	64	227495	62.97	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140210\
Data File : v27771.d
Acq On : 10 Feb 2014 6:25 pm
Operator : amym
Sample : mc28113-4ms
Misc : MS31098,MSV1046,,,,5,5
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Nov 20 08:55:21 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140210\
Data File : v27772.d
Acq On : 10 Feb 2014 6:52 pm
Operator : amym
Sample : mc28113-4msd
Misc : MS31098,MSV1046,,,,5,5
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Nov 20 08:55:42 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

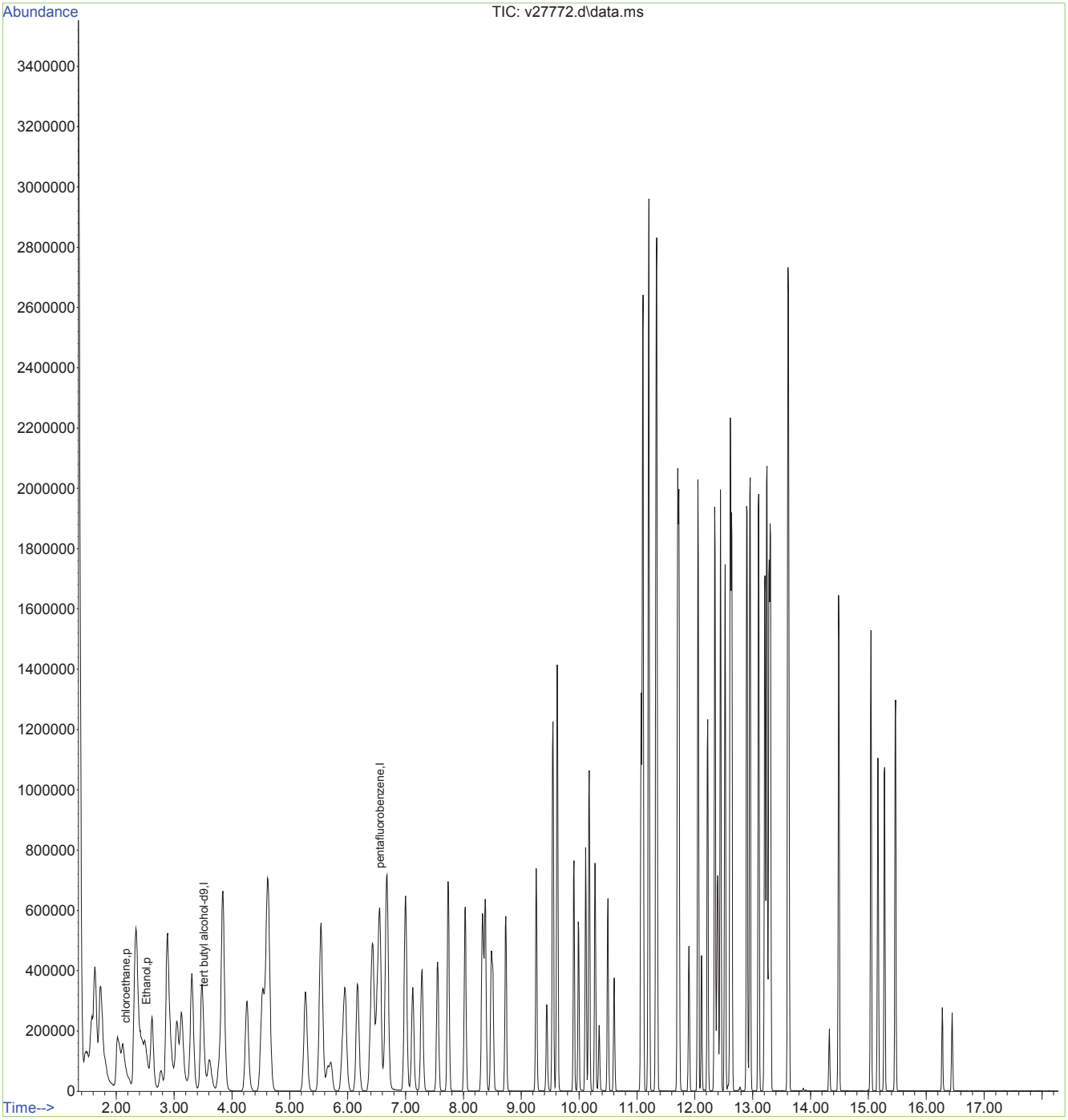
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.512	65	137596	500.00	ug/L	0.00
3) pentafluorobenzene	6.558	168	512262	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.516	45	228513	10565.92	ug/L	# 1
4) chloroethane	2.162	64	246982	62.79	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140210\
Data File : v27772.d
Acq On : 10 Feb 2014 6:52 pm
Operator : amym
Sample : mc28113-4msd
Misc : MS31098,MSV1046,,,,5,5
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Nov 20 08:55:42 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Internal Sample Tracking Chronicle

Shell Oil

Job No: MC28017

URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC28017-1 Collected: 30-JAN-14 09:30 By: LRKH Received: 31-JAN-14 By: MW4-ROX-013014						
MC28017-1	SW846 8270D	03-FEB-14 16:05	KR	31-JAN-14	PA	AB8270SL+
MC28017-1	SW846 8270D BY SIM	03-FEB-14 22:58	KR	31-JAN-14	PA	B8270SIMSL
MC28017-1	SW846 8011	04-FEB-14 13:30	NK	03-FEB-14	AZ	V8011SL
MC28017-1	SW846 8270D	06-FEB-14 18:21	KR	31-JAN-14	PA	AB8270SL+
MC28017-1	SW846 8260C	10-FEB-14 14:01	AMY			V8260SL+
MC28017-1	SW846 8260C	10-FEB-14 16:39	AMY			V8260SL+
MC28017-2 Collected: 30-JAN-14 13:20 By: LRKH Received: 31-JAN-14 By: MW7-ROX-013014						
MC28017-2	SW846 8270D	03-FEB-14 16:29	KR	31-JAN-14	PA	AB8270SL+
MC28017-2	SW846 8270D BY SIM	03-FEB-14 23:21	KR	31-JAN-14	PA	B8270SIMSL
MC28017-2	SW846 8011	04-FEB-14 13:53	NK	03-FEB-14	AZ	V8011SL
MC28017-2	SW846 8260C	10-FEB-14 14:27	AMY			V8260SL+
MC28017-2	SW846 8260C	10-FEB-14 17:06	AMY			V8260SL+
MC28017-3 Collected: 30-JAN-14 14:05 By: LRKH Received: 31-JAN-14 By: MW8-ROX-013014						
MC28017-3	SW846 8270D	03-FEB-14 16:52	KR	31-JAN-14	PA	AB8270SL+
MC28017-3	SW846 8270D BY SIM	03-FEB-14 23:43	KR	31-JAN-14	PA	B8270SIMSL
MC28017-3	SW846 8011	04-FEB-14 14:15	NK	03-FEB-14	AZ	V8011SL
MC28017-3	SW846 8260C	10-FEB-14 17:33	AMY			V8260SL+
MC28017-4 Collected: 30-JAN-14 14:05 By: LRKH Received: 31-JAN-14 By: MW8-ROX-013014-DUP						
MC28017-4	SW846 8270D	03-FEB-14 17:16	KR	31-JAN-14	PA	AB8270SL+
MC28017-4	SW846 8270D BY SIM	04-FEB-14 00:06	KR	31-JAN-14	PA	B8270SIMSL
MC28017-4	SW846 8011	04-FEB-14 15:01	NK	03-FEB-14	AZ	V8011SL
MC28017-4	SW846 8260C	10-FEB-14 17:59	AMY			V8260SL+
MC28017-5 Collected: 30-JAN-14 00:00 By: LRKH Received: 31-JAN-14 By: TB-ROX-013014-HCL						
MC28017-5	SW846 8260C	10-FEB-14 11:23	AMY			V8260SL+

Internal Sample Tracking Chronicle

Shell Oil

Job No: MC28017

URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC28017-6 Collected: 30-JAN-14 00:00 By: LRKH Received: 31-JAN-14 By: TB-ROX-013014-ST						
MC28017-6	SW846 8011	04-FEB-14 15:24	NK	03-FEB-14	AZ	V8011SL

SGS Accutest Internal Chain of Custody

Job Number: MC28017
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL
Received: 01/31/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC28017-1.2	Walk In Ref #22	Thomas Abruzzise	01/31/14 14:54	Retrieve from Storage
MC28017-1.2	Scott Parsick		03/25/14 11:35	Disposed
MC28017-1.3	VOC Ref #4	Amy Min Yang	02/10/14 10:33	Retrieve from Storage
MC28017-1.3	Amy Min Yang	GCMSV	02/10/14 10:33	Load on Instrument
MC28017-1.3	GCMSV	Amy Min Yang	02/10/14 16:57	Unload from Instrument
MC28017-1.3	Amy Min Yang	VOC Ref #4	02/10/14 16:57	Return to Storage
MC28017-1.3	Scott Parsick		03/25/14 11:35	Disposed
MC28017-1.4	VOC Ref #4	Amy Min Yang	01/31/14 14:26	Retrieve from Storage
MC28017-1.4	Amy Min Yang	GCMSP	01/31/14 14:26	Load on Instrument
MC28017-1.4	GCMSP	Krysten Dufort	02/03/14 09:59	Unload from Instrument
MC28017-1.4	Krysten Dufort	VOC Ref #4	02/03/14 10:00	Return to Storage
MC28017-1.4	Scott Parsick		03/25/14 11:35	Disposed
MC28017-1.5	VOC Ref #4	Marc Tahtamoni	02/03/14 19:19	Retrieve from Storage
MC28017-1.5	Marc Tahtamoni		02/27/14 22:07	Depleted
MC28017-2.1	Walk In Ref #22	Thomas Abruzzise	01/31/14 14:54	Retrieve from Storage
MC28017-2.1	Scott Parsick		03/25/14 11:35	Disposed
MC28017-2.3	VOC Ref #4	Amy Min Yang	02/10/14 10:33	Retrieve from Storage
MC28017-2.3	Amy Min Yang	GCMSV	02/10/14 10:33	Load on Instrument
MC28017-2.3	GCMSV	Amy Min Yang	02/10/14 16:57	Unload from Instrument
MC28017-2.3	Amy Min Yang	VOC Ref #4	02/10/14 16:57	Return to Storage
MC28017-2.3	Scott Parsick		03/25/14 11:35	Disposed
MC28017-2.4	VOC Ref #4	Amy Min Yang	01/31/14 14:26	Retrieve from Storage
MC28017-2.4	Amy Min Yang	GCMSP	01/31/14 14:26	Load on Instrument
MC28017-2.4	GCMSP	Krysten Dufort	02/03/14 09:59	Unload from Instrument
MC28017-2.4	Krysten Dufort	VOC Ref #4	02/03/14 10:00	Return to Storage
MC28017-2.4	Scott Parsick		03/25/14 11:35	Disposed
MC28017-2.6	VOC Ref #4	Marc Tahtamoni	02/03/14 19:19	Retrieve from Storage
MC28017-2.6	Marc Tahtamoni		02/27/14 22:07	Depleted
MC28017-3.1	Walk In Ref #22	Thomas Abruzzise	01/31/14 14:54	Retrieve from Storage
MC28017-3.1	Scott Parsick		03/25/14 11:35	Disposed
MC28017-3.3	VOC Ref #4	Amy Min Yang	02/10/14 10:33	Retrieve from Storage
MC28017-3.3	Amy Min Yang	GCMSV	02/10/14 10:33	Load on Instrument
MC28017-3.3	GCMSV	Amy Min Yang	02/10/14 16:57	Unload from Instrument
MC28017-3.3	Amy Min Yang	VOC Ref #4	02/10/14 16:57	Return to Storage
MC28017-3.3	Scott Parsick		03/25/14 11:35	Disposed

SGS Accutest Internal Chain of Custody

Job Number: MC28017
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL
Received: 01/31/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC28017-3.4	VOC Ref #4	Amy Min Yang	01/31/14 14:26	Retrieve from Storage
MC28017-3.4	Amy Min Yang	GCMSP	01/31/14 14:26	Load on Instrument
MC28017-3.4	GCMSP	Krysten Dufort	02/03/14 09:59	Unload from Instrument
MC28017-3.4	Krysten Dufort	VOC Ref #4	02/03/14 10:00	Return to Storage
MC28017-3.4	Scott Parsick		03/25/14 11:35	Disposed
MC28017-3.5	VOC Ref #4	Marc Tahtamoni	02/03/14 19:19	Retrieve from Storage
MC28017-3.5	Marc Tahtamoni		02/27/14 22:07	Depleted
MC28017-4.2	Walk In Ref #22	Thomas Abruzzise	01/31/14 14:54	Retrieve from Storage
MC28017-4.2	Scott Parsick		03/25/14 11:35	Disposed
MC28017-4.3	VOC Ref #4	Amy Min Yang	02/10/14 10:33	Retrieve from Storage
MC28017-4.3	Amy Min Yang	GCMSV	02/10/14 10:33	Load on Instrument
MC28017-4.3	GCMSV	Amy Min Yang	02/10/14 16:57	Unload from Instrument
MC28017-4.3	Amy Min Yang	VOC Ref #4	02/10/14 16:57	Return to Storage
MC28017-4.3	Scott Parsick		03/25/14 11:35	Disposed
MC28017-4.4	VOC Ref #4	Amy Min Yang	01/31/14 14:26	Retrieve from Storage
MC28017-4.4	Amy Min Yang	GCMSP	01/31/14 14:26	Load on Instrument
MC28017-4.4	GCMSP	Krysten Dufort	02/03/14 09:59	Unload from Instrument
MC28017-4.4	Krysten Dufort	VOC Ref #4	02/03/14 10:00	Return to Storage
MC28017-4.4	Scott Parsick		03/25/14 11:35	Disposed
MC28017-4.6	VOC Ref #4	Marc Tahtamoni	02/03/14 19:19	Retrieve from Storage
MC28017-4.6	Marc Tahtamoni		02/27/14 22:07	Depleted
MC28017-5.1	VOC Ref #4	Amy Min Yang	02/10/14 10:33	Retrieve from Storage
MC28017-5.1	Amy Min Yang	GCMSV	02/10/14 10:33	Load on Instrument
MC28017-5.1	GCMSV	Amy Min Yang	02/10/14 16:57	Unload from Instrument
MC28017-5.1	Amy Min Yang	VOC Ref #4	02/10/14 16:57	Return to Storage
MC28017-5.1	Scott Parsick		03/25/14 11:35	Disposed
MC28017-6.2	VOC Ref #4	Marc Tahtamoni	02/03/14 19:19	Retrieve from Storage
MC28017-6.2	Marc Tahtamoni		02/27/14 22:07	Depleted

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC28017
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1046-MB	V27754.D	1	02/10/14	AMY	n/a	n/a	MSV1046

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC28017-1, MC28017-2, MC28017-3, MC28017-4, MC28017-5

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	4.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.77	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	

Method Blank Summary

Job Number: MC28017
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1046-MB	V27754.D	1	02/10/14	AMY	n/a	n/a	MSV1046

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC28017-1, MC28017-2, MC28017-3, MC28017-4, MC28017-5

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
123-91-1	1,4-Dioxane	ND	25	16	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	3.9	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.91	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

Method Blank Summary

Job Number: MC28017
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1046-MB	V27754.D	1	02/10/14	AMY	n/a	n/a	MSV1046

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC28017-1, MC28017-2, MC28017-3, MC28017-4, MC28017-5

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	101%	70-130%
2037-26-5	Toluene-D8	97%	70-130%
460-00-4	4-Bromofluorobenzene	104%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Job Number: MC28017
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1046-BS	V27751.D	1	02/10/14	AMY	n/a	n/a	MSV1046

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC28017-1, MC28017-2, MC28017-3, MC28017-4, MC28017-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	38.2	76	70-130
107-02-8	Acrolein	50	53.6	107	70-130
107-13-1	Acrylonitrile	100	76.6	77	70-130
71-43-2	Benzene	50	49.9	100	70-130
108-86-1	Bromobenzene	50	53.3	107	70-130
74-97-5	Bromochloromethane	50	49.8	100	70-130
75-27-4	Bromodichloromethane	50	55.1	110	70-130
75-25-2	Bromoform	50	43.4	87	70-130
74-83-9	Bromomethane	50	56.1	112	70-130
78-93-3	2-Butanone (MEK)	50	39.7	79	70-130
104-51-8	n-Butylbenzene	50	56.8	114	70-130
135-98-8	sec-Butylbenzene	50	58.5	117	70-130
98-06-6	tert-Butylbenzene	50	57.7	115	70-130
75-15-0	Carbon disulfide	50	41.6	83	70-130
56-23-5	Carbon tetrachloride	50	54.5	109	70-130
108-90-7	Chlorobenzene	50	45.7	91	70-130
75-00-3	Chloroethane	50	71.5	143*	70-130
110-75-8	2-Chloroethyl vinyl ether	50	48.1	96	70-130
67-66-3	Chloroform	50	48.8	98	70-130
74-87-3	Chloromethane	50	54.2	108	70-130
95-49-8	o-Chlorotoluene	50	52.5	105	70-130
106-43-4	p-Chlorotoluene	50	54.2	108	70-130
124-48-1	Dibromochloromethane	50	56.2	112	70-130
95-50-1	1,2-Dichlorobenzene	50	49.2	98	70-130
541-73-1	1,3-Dichlorobenzene	50	50.2	100	70-130
106-46-7	1,4-Dichlorobenzene	50	49.7	99	70-130
75-71-8	Dichlorodifluoromethane	50	50.5	101	70-130
75-34-3	1,1-Dichloroethane	50	49.7	99	70-130
107-06-2	1,2-Dichloroethane	50	50.3	101	70-130
75-35-4	1,1-Dichloroethene	50	48.1	96	70-130
156-59-2	cis-1,2-Dichloroethene	50	50.4	101	70-130
156-60-5	trans-1,2-Dichloroethene	50	48.6	97	70-130
78-87-5	1,2-Dichloropropane	50	49.3	99	70-130
142-28-9	1,3-Dichloropropane	50	48.9	98	70-130
594-20-7	2,2-Dichloropropane	50	60.2	120	70-130
563-58-6	1,1-Dichloropropene	50	50.2	100	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC28017
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1046-BS	V27751.D	1	02/10/14	AMY	n/a	n/a	MSV1046

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC28017-1, MC28017-2, MC28017-3, MC28017-4, MC28017-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	50	47.4	95	70-130
10061-02-6	trans-1,3-Dichloropropene	50	49.7	99	70-130
123-91-1	1,4-Dioxane	250	202	81	70-130
97-63-2	Ethyl methacrylate	50	45.3	91	77-137
100-41-4	Ethylbenzene	50	52.9	106	70-130
87-68-3	Hexachlorobutadiene	50	57.5	115	70-130
591-78-6	2-Hexanone	50	40.7	81	70-130
98-82-8	Isopropylbenzene	50	59.3	119	70-130
99-87-6	p-Isopropyltoluene	50	56.7	113	70-130
1634-04-4	Methyl Tert Butyl Ether	50	53.0	106	70-130
108-10-1	4-Methyl-2-pentanone (MIBK)	50	49.7	99	70-130
74-95-3	Methylene bromide	50	49.0	98	70-130
75-09-2	Methylene chloride	50	44.9	90	70-130
91-20-3	Naphthalene	50	50.4	101	70-130
103-65-1	n-Propylbenzene	50	56.5	113	70-130
100-42-5	Styrene	50	48.5	97	70-130
630-20-6	1,1,1,2-Tetrachloroethane	50	52.9	106	70-130
79-34-5	1,1,2,2-Tetrachloroethane	50	50.3	101	70-130
127-18-4	Tetrachloroethene	50	52.1	104	70-130
108-88-3	Toluene	50	53.7	107	70-130
87-61-6	1,2,3-Trichlorobenzene	50	57.8	116	70-130
120-82-1	1,2,4-Trichlorobenzene	50	59.8	120	70-130
71-55-6	1,1,1-Trichloroethane	50	54.8	110	70-130
79-00-5	1,1,2-Trichloroethane	50	49.2	98	70-130
79-01-6	Trichloroethene	50	51.7	103	70-130
75-69-4	Trichlorofluoromethane	50	62.4	125	70-130
96-18-4	1,2,3-Trichloropropane	50	53.7	107	70-130
95-63-6	1,2,4-Trimethylbenzene	50	57.4	115	70-130
108-67-8	1,3,5-Trimethylbenzene	50	58.3	117	70-130
108-05-4	Vinyl Acetate	50	49.5	99	70-130
75-01-4	Vinyl chloride	50	54.2	108	70-130
	m,p-Xylene	100	88.0	88	70-130
95-47-6	o-Xylene	50	44.5	89	70-130
1330-20-7	Xylene (total)	150	132	88	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC28017
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1046-BS	V27751.D	1	02/10/14	AMY	n/a	n/a	MSV1046

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC28017-1, MC28017-2, MC28017-3, MC28017-4, MC28017-5

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	96%	70-130%
2037-26-5	Toluene-D8	99%	70-130%
460-00-4	4-Bromofluorobenzene	100%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC28017
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC28113-4MS	V27771.D	5	02/10/14	AMY	n/a	n/a	MSV1046
MC28113-4MSD	V27772.D	5	02/10/14	AMY	n/a	n/a	MSV1046
MC28113-4	V27760.D	1	02/10/14	AMY	n/a	n/a	MSV1046

The QC reported here applies to the following samples: Method: SW846 8260C

MC28017-1, MC28017-2, MC28017-3, MC28017-4, MC28017-5

CAS No.	Compound	MC28113-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		250	142	57* a	250	124	50* a	14	70-130/30
107-02-8	Acrolein	ND		250	230	92	250	217	87	6	70-130/30
107-13-1	Acrylonitrile	ND		500	401	80	500	374	75	7	70-130/30
71-43-2	Benzene	ND		250	237	95	250	237	95	0	70-130/30
108-86-1	Bromobenzene	ND		250	256	102	250	260	104	2	70-130/30
74-97-5	Bromochloromethane	ND		250	235	94	250	237	95	1	70-130/30
75-27-4	Bromodichloromethane	ND		250	263	105	250	260	104	1	70-130/30
75-25-2	Bromoform	ND		250	207	83	250	201	80	3	70-130/30
74-83-9	Bromomethane	ND		250	244	98	250	250	100	2	70-130/30
78-93-3	2-Butanone (MEK)	ND		250	163	65* a	250	150	60* a	8	70-130/30
104-51-8	n-Butylbenzene	ND		250	279	112	250	284	114	2	70-130/30
135-98-8	sec-Butylbenzene	ND		250	287	115	250	290	116	1	70-130/30
98-06-6	tert-Butylbenzene	ND		250	283	113	250	290	116	2	70-130/30
75-15-0	Carbon disulfide	ND		250	198	79	250	201	80	2	70-130/30
56-23-5	Carbon tetrachloride	ND		250	276	110	250	269	108	3	70-130/30
108-90-7	Chlorobenzene	ND		250	217	87	250	219	88	1	70-130/30
75-00-3	Chloroethane	ND		250	315	126	250	314	126	0	70-130/30
110-75-8	2-Chloroethyl vinyl ether	ND		250	ND	0* a	250	ND	0* a	nc	70-130/30
67-66-3	Chloroform	ND		250	237	95	250	236	94	0	70-130/30
74-87-3	Chloromethane	ND		250	282	113	250	253	101	11	70-130/30
95-49-8	o-Chlorotoluene	ND		250	257	103	250	260	104	1	70-130/30
106-43-4	p-Chlorotoluene	ND		250	263	105	250	267	107	2	70-130/30
124-48-1	Dibromochloromethane	ND		250	269	108	250	264	106	2	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		250	234	94	250	238	95	2	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		250	238	95	250	246	98	3	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		250	240	96	250	241	96	0	70-130/30
75-71-8	Dichlorodifluoromethane	ND		250	270	108	250	270	108	0	70-130/30
75-34-3	1,1-Dichloroethane	ND		250	241	96	250	241	96	0	70-130/30
107-06-2	1,2-Dichloroethane	ND		250	252	101	250	245	98	3	70-130/30
75-35-4	1,1-Dichloroethene	ND		250	233	93	250	235	94	1	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		250	234	94	250	239	96	2	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		250	230	92	250	232	93	1	70-130/30
78-87-5	1,2-Dichloropropane	ND		250	236	94	250	237	95	0	70-130/30
142-28-9	1,3-Dichloropropane	ND		250	238	95	250	234	94	2	70-130/30
594-20-7	2,2-Dichloropropane	ND		250	277	111	250	277	111	0	70-130/30
563-58-6	1,1-Dichloropropene	ND		250	243	97	250	242	97	0	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC28017
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC28113-4MS	V27771.D	5	02/10/14	AMY	n/a	n/a	MSV1046
MC28113-4MSD	V27772.D	5	02/10/14	AMY	n/a	n/a	MSV1046
MC28113-4	V27760.D	1	02/10/14	AMY	n/a	n/a	MSV1046

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC28017-1, MC28017-2, MC28017-3, MC28017-4, MC28017-5

CAS No.	Compound	MC28113-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		250	214	86	250	217	87	1	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		250	234	94	250	231	92	1	70-130/30
123-91-1	1,4-Dioxane	ND		1250	1030	82	1250	1000	80	3	70-130/30
97-63-2	Ethyl methacrylate	ND		250	217	87	250	209	84	4	72-139/30
100-41-4	Ethylbenzene	ND		250	252	101	250	253	101	0	70-130/30
87-68-3	Hexachlorobutadiene	ND		250	273	109	250	294	118	7	70-130/30
591-78-6	2-Hexanone	ND		250	181	72	250	165	66* [a]	9	70-130/30
98-82-8	Isopropylbenzene	ND		250	290	116	250	293	117	1	70-130/30
99-87-6	p-Isopropyltoluene	ND		250	275	110	250	282	113	3	70-130/30
1634-04-4	Methyl Tert Butyl Ether	4.5		250	256	101	250	244	96	5	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	250	100	250	230	92	8	70-130/30
74-95-3	Methylene bromide	ND		250	239	96	250	234	94	2	70-130/30
75-09-2	Methylene chloride	ND		250	215	86	250	218	87	1	70-130/30
91-20-3	Naphthalene	ND		250	223	89	250	235	94	5	70-130/30
103-65-1	n-Propylbenzene	ND		250	276	110	250	279	112	1	70-130/30
100-42-5	Styrene	ND		250	230	92	250	231	92	0	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		250	255	102	250	256	102	0	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	253	101	250	243	97	4	70-130/30
127-18-4	Tetrachloroethene	ND		250	250	100	250	251	100	0	70-130/30
108-88-3	Toluene	ND		250	256	102	250	253	101	1	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		250	254	102	250	273	109	7	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		250	272	109	250	282	113	4	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		250	263	105	250	263	105	0	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		250	239	96	250	235	94	2	70-130/30
79-01-6	Trichloroethene	ND		250	244	98	250	248	99	2	70-130/30
75-69-4	Trichlorofluoromethane	ND		250	316	126	250	306	122	3	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		250	268	107	250	255	102	5	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		250	280	112	250	284	114	1	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		250	286	114	250	287	115	0	70-130/30
108-05-4	Vinyl Acetate	ND		250	241	96	250	238	95	1	70-130/30
75-01-4	Vinyl chloride	ND		250	243	97	250	244	98	0	70-130/30
	m,p-Xylene	ND		500	421	84	500	424	85	1	70-130/30
95-47-6	o-Xylene	ND		250	211	84	250	212	85	0	70-130/30
1330-20-7	Xylene (total)	ND		750	632	84	750	636	85	1	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC28017
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC28113-4MS	V27771.D	5	02/10/14	AMY	n/a	n/a	MSV1046
MC28113-4MSD	V27772.D	5	02/10/14	AMY	n/a	n/a	MSV1046
MC28113-4	V27760.D	1	02/10/14	AMY	n/a	n/a	MSV1046

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC28017-1, MC28017-2, MC28017-3, MC28017-4, MC28017-5

CAS No.	Surrogate Recoveries	MS	MSD	MC28113-4	Limits
1868-53-7	Dibromofluoromethane	98%	98%	107%	70-130%
2037-26-5	Toluene-D8	99%	98%	97%	70-130%
460-00-4	4-Bromofluorobenzene	102%	101%	103%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.

* = Outside of Control Limits.

Volatile Internal Standard Area Summary

Job Number: MC28017
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSV1046-CC1019	**Injection Date:**	02/10/14
Lab File ID:	V27750.D	**Injection Time:**	09:10
Instrument ID:	GCMSV	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	534127	6.57	673061	7.75	365992	11.08	392790	13.29	174408	3.52
Upper Limit [a]	1068254	7.07	1346122	8.25	731984	11.58	785580	13.79	348816	4.02
Lower Limit [b]	267064	6.07	336531	7.25	182996	10.58	196395	12.79	87204	3.02

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSV1046-BS	532374	6.57	670712	7.75	362322	11.08	389835	13.29	154033	3.52
MSV1046-MB	466795	6.57	615908	7.74	329845	11.08	315739	13.29	170093	3.52
MC28017-5	455638	6.57	610981	7.74	328418	11.08	313907	13.29	134097	3.52
ZZZZZZ	430203	6.56	583204	7.74	313791	11.08	299278	13.29	124133	3.51
ZZZZZZ	425262	6.57	576397	7.75	310656	11.08	296261	13.29	151487	3.52
ZZZZZZ	403947	6.57	543947	7.75	295802	11.08	301901	13.29	120642	3.52
MC28113-4	413538	6.56	556500	7.74	298292	11.08	283541	13.29	126997	3.51
MC28017-1	515114	6.57	726409	7.74	356817	11.08	326407	13.29	168751	3.53
MC28017-2	418741	6.57	580459	7.75	309312	11.08	291199	13.29	143742	3.52
ZZZZZZ	377934	6.56	521951	7.74	280002	11.08	272411	13.29	119762	3.51
MC28017-1	390529	6.56	531576	7.74	287750	11.07	276208	13.29	131554	3.51
MC28017-2	383915	6.56	547891	7.74	290220	11.07	272230	13.29	111507	3.51
MC28017-3	373133	6.56	537110	7.74	286298	11.07	269619	13.29	104615	3.51
MC28017-4	362619	6.56	528875	7.74	281831	11.07	268189	13.29	111898	3.52
MC28113-4MS	470549	6.56	590685	7.74	320293	11.07	337803	13.28	143781	3.51
MC28113-4MSD	512262	6.56	647593	7.74	347914	11.07	362663	13.28	137596	3.51
ZZZZZZ	446581	6.56	587527	7.74	312702	11.07	311950	13.28	116480	3.51
ZZZZZZ	428109	6.55	572814	7.73	308792	11.07	293263	13.28	149985	3.50
ZZZZZZ	418274	6.56	585162	7.74	309590	11.07	312283	13.28	147877	3.51

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: MC28017
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Method: SW846 8260C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC28017-1	V27767.D	106	97	103
MC28017-1	V27761.D	92	93	109
MC28017-2	V27768.D	110	95	104
MC28017-2	V27762.D	105	95	105
MC28017-3	V27769.D	110	94	103
MC28017-4	V27770.D	112	95	103
MC28017-5	V27755.D	103	96	104
MC28113-4MS	V27771.D	98	99	102
MC28113-4MSD	V27772.D	98	98	101
MSV1046-BS	V27751.D	96	99	100
MSV1046-MB	V27754.D	101	97	104

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	70-130%
S2 = Toluene-D8	70-130%
S3 = 4-Bromofluorobenzene	70-130%

GC/MS Semi-volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC28017
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36729-MB	W17530.D	1	02/03/14	KR	01/31/14	OP36729	MSW770

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC28017-1, MC28017-2, MC28017-3, MC28017-4

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.38	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.49	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.33	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	ND	10	1.3	ug/l	
	3&4-Methylphenol	ND	10	2.0	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.50	ug/l	
100-02-7	4-Nitrophenol	ND	20	0.58	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	ND	5.0	0.51	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.57	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.32	ug/l	
62-53-3	Aniline	ND	10	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.20	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.85	ug/l	
100-51-6	Benzyl Alcohol	ND	10	0.57	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.92	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.25	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.21	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.23	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.13	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.20	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.65	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.68	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.64	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.50	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	0.41	5.0	0.39	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.0	0.43	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	0.50	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.50	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.49	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.30	ug/l	

Method Blank Summary

Job Number: MC28017
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36729-MB	W17530.D	1	02/03/14	KR	01/31/14	OP36729	MSW770

The QC reported here applies to the following samples: Method: SW846 8270D

MC28017-1, MC28017-2, MC28017-3, MC28017-4

CAS No.	Compound	Result	RL	MDL	Units	Q
77-47-4	Hexachlorocyclopentadiene	ND	10	2.5	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.44	ug/l	
78-59-1	Isophorone	ND	5.0	0.20	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.50	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.3	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.25	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.0	0.50	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.81	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.54	ug/l	
110-86-1	Pyridine	ND	10	0.52	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	47%	15-110%
4165-62-2	Phenol-d5	36%	15-110%
118-79-6	2,4,6-Tribromophenol	88%	15-110%
4165-60-0	Nitrobenzene-d5	86%	30-130%
321-60-8	2-Fluorobiphenyl	86%	30-130%
1718-51-0	Terphenyl-d14	101%	30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

Method Blank Summary

Job Number: MC28017
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36730-MB	I87201.D	1	02/03/14	KR	01/31/14	OP36730	MSI3242

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

MC28017-1, MC28017-2, MC28017-3, MC28017-4

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.069	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.050	ug/l	
120-12-7	Anthracene	ND	0.10	0.092	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	0.020	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.029	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	0.032	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.027	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.039	ug/l	
218-01-9	Chrysene	ND	0.10	0.024	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.032	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.041	ug/l	
86-73-7	Fluorene	ND	0.10	0.099	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.031	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.20	0.050	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.20	0.074	ug/l	
85-01-8	Phenanthrene	0.017	0.050	0.013	ug/l	J
129-00-0	Pyrene	ND	0.10	0.038	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	88%	30-130%
321-60-8	2-Fluorobiphenyl	77%	30-130%
1718-51-0	Terphenyl-d14	93%	30-130%

Blank Spike Summary

Job Number: MC28017
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36729-BS	W17531.D	1	02/03/14	KR	01/31/14	OP36729	MSW770

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC28017-1, MC28017-2, MC28017-3, MC28017-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	50	17.0	34	30-130
95-57-8	2-Chlorophenol	50	39.5	79	30-130
59-50-7	4-Chloro-3-methyl phenol	50	43.9	88	30-130
120-83-2	2,4-Dichlorophenol	50	45.9	92	30-130
105-67-9	2,4-Dimethylphenol	50	35.4	71	30-130
51-28-5	2,4-Dinitrophenol	50	36.6	73	30-130
534-52-1	4,6-Dinitro-o-cresol	50	45.8	92	30-130
95-48-7	2-Methylphenol	50	36.4	73	30-130
	3&4-Methylphenol	100	70.3	70	30-130
88-75-5	2-Nitrophenol	50	46.1	92	30-130
100-02-7	4-Nitrophenol	50	20.5	41	30-130
87-86-5	Pentachlorophenol	50	39.8	80	30-130
108-95-2	Phenol	50	18.9	38	30-130
95-95-4	2,4,5-Trichlorophenol	50	47.2	94	30-130
88-06-2	2,4,6-Trichlorophenol	50	45.9	92	30-130
62-53-3	Aniline	50	29.3	59	40-140
101-55-3	4-Bromophenyl phenyl ether	50	51.9	104	40-140
85-68-7	Butyl benzyl phthalate	50	55.0	110	40-140
100-51-6	Benzyl Alcohol	50	34.5	69	40-140
91-58-7	2-Chloronaphthalene	50	48.1	96	40-140
106-47-8	4-Chloroaniline	50	42.1	84	40-140
111-91-1	bis(2-Chloroethoxy)methane	50	46.2	92	40-140
111-44-4	bis(2-Chloroethyl)ether	50	43.3	87	40-140
108-60-1	bis(2-Chloroisopropyl)ether	50	49.3	99	40-140
7005-72-3	4-Chlorophenyl phenyl ether	50	49.0	98	40-140
122-66-7	1,2-Diphenylhydrazine	50	48.3	97	40-140
121-14-2	2,4-Dinitrotoluene	50	51.4	103	40-140
606-20-2	2,6-Dinitrotoluene	50	48.1	96	40-140
91-94-1	3,3'-Dichlorobenzidine	50	52.2	104	40-140
132-64-9	Dibenzofuran	50	45.1	90	40-140
84-74-2	Di-n-butyl phthalate	50	48.3	97	40-140
117-84-0	Di-n-octyl phthalate	50	55.8	112	40-140
84-66-2	Diethyl phthalate	50	45.9	92	40-140
131-11-3	Dimethyl phthalate	50	38.1	76	40-140
117-81-7	bis(2-Ethylhexyl)phthalate	50	54.8	110	40-140
118-74-1	Hexachlorobenzene	50	51.0	102	40-140

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC28017
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36729-BS	W17531.D	1	02/03/14	KR	01/31/14	OP36729	MSW770

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC28017-1, MC28017-2, MC28017-3, MC28017-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
77-47-4	Hexachlorocyclopentadiene	50	25.4	51	40-140
67-72-1	Hexachloroethane	50	29.1	58	40-140
78-59-1	Isophorone	50	47.3	95	40-140
88-74-4	2-Nitroaniline	50	49.0	98	40-140
99-09-2	3-Nitroaniline	50	46.6	93	40-140
100-01-6	4-Nitroaniline	50	47.9	96	40-140
98-95-3	Nitrobenzene	50	45.5	91	40-140
62-75-9	n-Nitrosodimethylamine	50	27.0	54	40-140
621-64-7	N-Nitroso-di-n-propylamine	50	46.2	92	40-140
86-30-6	N-Nitrosodiphenylamine	50	48.4	97	40-140
110-86-1	Pyridine	50	21.5	43	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	53%	15-110%
4165-62-2	Phenol-d5	37%	15-110%
118-79-6	2,4,6-Tribromophenol	99%	15-110%
4165-60-0	Nitrobenzene-d5	89%	30-130%
321-60-8	2-Fluorobiphenyl	86%	30-130%
1718-51-0	Terphenyl-d14	104%	30-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC28017
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36730-BS	I87202.D	1	02/03/14	KR	01/31/14	OP36730	MSI3242

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

MC28017-1, MC28017-2, MC28017-3, MC28017-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	50	43.6	87	40-140
208-96-8	Acenaphthylene	50	37.3	75	40-140
120-12-7	Anthracene	50	42.3	85	40-140
56-55-3	Benzo(a)anthracene	50	49.8	100	40-140
50-32-8	Benzo(a)pyrene	50	46.9	94	40-140
205-99-2	Benzo(b)fluoranthene	50	50.5	101	40-140
191-24-2	Benzo(g,h,i)perylene	50	53.4	107	40-140
207-08-9	Benzo(k)fluoranthene	50	47.0	94	40-140
218-01-9	Chrysene	50	47.7	95	40-140
53-70-3	Dibenzo(a,h)anthracene	50	53.7	107	40-140
206-44-0	Fluoranthene	50	47.4	95	40-140
86-73-7	Fluorene	50	44.0	88	40-140
193-39-5	Indeno(1,2,3-cd)pyrene	50	53.7	107	40-140
90-12-0	1-Methylnaphthalene	50	39.0	78	40-140
91-57-6	2-Methylnaphthalene	50	37.9	76	40-140
85-01-8	Phenanthrene	50	42.6	85	40-140
129-00-0	Pyrene	50	46.1	92	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	89%	30-130%
321-60-8	2-Fluorobiphenyl	78%	30-130%
1718-51-0	Terphenyl-d14	93%	30-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC28017
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36729-MS	W17532.D	1	02/03/14	KR	01/31/14	OP36729	MSW770
OP36729-MSD	W17533.D	1	02/03/14	KR	01/31/14	OP36729	MSW770
MC27800-18	W17534.D	1	02/03/14	KR	01/31/14	OP36729	MSW770

The QC reported here applies to the following samples: Method: SW846 8270D

MC28017-1, MC28017-2, MC28017-3, MC28017-4

CAS No.	Compound	MC27800-18 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		50	16.6	33	50	15.6	31	6	30-130/20
95-57-8	2-Chlorophenol	ND		50	39.8	80	50	37.4	75	6	30-130/20
59-50-7	4-Chloro-3-methyl phenol	ND		50	43.0	86	50	41.7	83	3	30-130/20
120-83-2	2,4-Dichlorophenol	ND		50	45.1	90	50	44.0	88	2	30-130/20
105-67-9	2,4-Dimethylphenol	ND		50	34.7	69	50	32.8	66	6	30-130/20
51-28-5	2,4-Dinitrophenol	ND		50	35.7	71	50	33.7	67	6	30-130/20
534-52-1	4,6-Dinitro-o-cresol	ND		50	46.7	93	50	45.2	90	3	30-130/20
95-48-7	2-Methylphenol	ND		50	36.6	73	50	34.0	68	7	30-130/20
	3&4-Methylphenol	ND		100	70.5	71	100	66.4	66	6	30-130/20
88-75-5	2-Nitrophenol	ND		50	44.4	89	50	43.0	86	3	30-130/20
100-02-7	4-Nitrophenol	ND		50	20.3	41	50	19.4	39	5	30-130/20
87-86-5	Pentachlorophenol	ND		50	41.0	82	50	38.5	77	6	30-130/20
108-95-2	Phenol	ND		50	19.4	39	50	17.5	35	10	30-130/20
95-95-4	2,4,5-Trichlorophenol	ND		50	45.8	92	50	45.1	90	2	30-130/20
88-06-2	2,4,6-Trichlorophenol	ND		50	45.3	91	50	43.4	87	4	30-130/20
62-53-3	Aniline	ND		50	30.8	62	50	27.7	55	11	40-140/20
101-55-3	4-Bromophenyl phenyl ether	ND		50	52.8	106	50	48.8	98	8	40-140/20
85-68-7	Butyl benzyl phthalate	ND		50	53.3	107	50	51.1	102	4	40-140/20
100-51-6	Benzyl Alcohol	ND		50	34.5	69	50	31.1	62	10	40-140/20
91-58-7	2-Chloronaphthalene	ND		50	46.7	93	50	44.0	88	6	40-140/20
106-47-8	4-Chloroaniline	ND		50	41.1	82	50	38.6	77	6	40-140/20
111-91-1	bis(2-Chloroethoxy)methane	ND		50	45.6	91	50	43.3	87	5	40-140/20
111-44-4	bis(2-Chloroethyl)ether	ND		50	44.7	89	50	40.9	82	9	40-140/20
108-60-1	bis(2-Chloroisopropyl)ether	ND		50	50.7	101	50	46.0	92	10	40-140/20
7005-72-3	4-Chlorophenyl phenyl ether	ND		50	49.0	98	50	46.4	93	5	40-140/20
122-66-7	1,2-Diphenylhydrazine	ND		50	48.8	98	50	45.8	92	6	40-140/20
121-14-2	2,4-Dinitrotoluene	ND		50	52.2	104	50	49.2	98	6	40-140/20
606-20-2	2,6-Dinitrotoluene	ND		50	48.5	97	50	45.9	92	6	40-140/20
91-94-1	3,3'-Dichlorobenzidine	ND		50	52.2	104	50	49.9	100	5	40-140/20
132-64-9	Dibenzofuran	ND		50	45.5	91	50	43.0	86	6	40-140/20
84-74-2	Di-n-butyl phthalate	1.2	J	50	49.1	96	50	46.7	91	5	40-140/20
117-84-0	Di-n-octyl phthalate	ND		50	54.6	109	50	51.3	103	6	40-140/20
84-66-2	Diethyl phthalate	ND		50	45.5	91	50	45.4	91	0	40-140/20
131-11-3	Dimethyl phthalate	ND		50	38.1	76	50	40.8	82	7	40-140/20
117-81-7	bis(2-Ethylhexyl)phthalate	2.7		50	53.8	102	50	51.5	98	4	40-140/20
118-74-1	Hexachlorobenzene	ND		50	51.3	103	50	48.7	97	5	40-140/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC28017
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36729-MS	W17532.D	1	02/03/14	KR	01/31/14	OP36729	MSW770
OP36729-MSD	W17533.D	1	02/03/14	KR	01/31/14	OP36729	MSW770
MC27800-18	W17534.D	1	02/03/14	KR	01/31/14	OP36729	MSW770

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC28017-1, MC28017-2, MC28017-3, MC28017-4

CAS No.	Compound	MC27800-18 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
77-47-4	Hexachlorocyclopentadiene	ND		50	23.9	48	50	22.0	44	8	40-140/20
67-72-1	Hexachloroethane	ND		50	30.5	61	50	25.2	50	19	40-140/20
78-59-1	Isophorone	ND		50	45.9	92	50	44.1	88	4	40-140/20
88-74-4	2-Nitroaniline	ND		50	48.0	96	50	46.3	93	4	40-140/20
99-09-2	3-Nitroaniline	ND		50	45.9	92	50	45.2	90	2	40-140/20
100-01-6	4-Nitroaniline	ND		50	47.2	94	50	44.4	89	6	40-140/20
98-95-3	Nitrobenzene	ND		50	44.6	89	50	42.5	85	5	40-140/20
62-75-9	n-Nitrosodimethylamine	ND		50	28.4	57	50	26.1	52	8	40-140/20
621-64-7	N-Nitroso-di-n-propylamine	ND		50	47.5	95	50	44.3	89	7	40-140/20
86-30-6	N-Nitrosodiphenylamine	ND		50	47.9	96	50	45.5	91	5	40-140/20
110-86-1	Pyridine	ND		50	22.6	45	50	20.3	41	11	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC27800-18	Limits
367-12-4	2-Fluorophenol	55%	50%	49%	15-110%
4165-62-2	Phenol-d5	38%	35%	36%	15-110%
118-79-6	2,4,6-Tribromophenol	101%	97%	88%	15-110%
4165-60-0	Nitrobenzene-d5	86%	82%	84%	30-130%
321-60-8	2-Fluorobiphenyl	83%	78%	80%	30-130%
1718-51-0	Terphenyl-d14	100%	96%	99%	30-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC28017
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36730-MS	I87203.D	1	02/03/14	KR	01/31/14	OP36730	MSI3242
OP36730-MSD	I87204.D	1	02/03/14	KR	01/31/14	OP36730	MSI3242
MC27800-19	I87205.D	1	02/03/14	KR	01/31/14	OP36730	MSI3242

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

MC28017-1, MC28017-2, MC28017-3, MC28017-4

CAS No.	Compound	MC27800-19 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND		50	43.8	88	50	40.9	82	7	40-140/20
208-96-8	Acenaphthylene	ND		50	36.9	74	50	34.7	69	6	40-140/20
120-12-7	Anthracene	ND		50	42.2	84	50	40.2	80	5	40-140/20
56-55-3	Benzo(a)anthracene	ND		50	49.7	99	50	46.9	94	6	40-140/20
50-32-8	Benzo(a)pyrene	ND		50	46.9	94	50	44.1	88	6	40-140/20
205-99-2	Benzo(b)fluoranthene	ND		50	50.9	102	50	45.3	91	12	40-140/20
191-24-2	Benzo(g,h,i)perylene	ND		50	53.4	107	50	50.6	101	5	40-140/20
207-08-9	Benzo(k)fluoranthene	ND		50	46.7	93	50	47.5	95	2	40-140/20
218-01-9	Chrysene	ND		50	47.0	94	50	44.6	89	5	40-140/20
53-70-3	Dibenzo(a,h)anthracene	ND		50	53.7	107	50	51.0	102	5	40-140/20
206-44-0	Fluoranthene	ND		50	46.6	93	50	43.9	88	6	40-140/20
86-73-7	Fluorene	ND		50	43.5	87	50	41.2	82	5	40-140/20
193-39-5	Indeno(1,2,3-cd)pyrene	ND		50	53.7	107	50	50.8	102	6	40-140/20
90-12-0	1-Methylnaphthalene	ND		50	38.4	77	50	35.7	71	7	40-140/20
91-57-6	2-Methylnaphthalene	ND		50	37.4	75	50	35.2	70	6	40-140/20
85-01-8	Phenanthrene	0.029	J	50	42.6	85	50	40.7	81	5	40-140/20
129-00-0	Pyrene	ND		50	45.9	92	50	43.3	87	6	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC27800-19	Limits
4165-60-0	Nitrobenzene-d5	88%	84%	87%	30-130%
321-60-8	2-Fluorobiphenyl	76%	71%	74%	30-130%
1718-51-0	Terphenyl-d14	92%	88%	90%	30-130%

* = Outside of Control Limits.

Semivolatile Internal Standard Area Summary

Job Number: MC28017
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSI3242-CC3238	**Injection Date:**	02/03/14
Lab File ID:	I87200.D	**Injection Time:**	08:32
Instrument ID:	GCMSI	**Method:**	SW846 8270D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	383295	4.43	855826	5.49	465195	7.04	761744	8.47	468080	11.24	1265735	12.75
Upper Limit [a]	766590	4.93	1711652	5.99	930390	7.54	1523488	8.97	936160	11.74	2531470	13.25
Lower Limit [b]	191648	3.93	427913	4.99	232598	6.54	380872	7.97	234040	10.74	632868	12.25
Lab Sample ID	**IS 1 AREA**	**RT**	**IS 2 AREA**	**RT**	**IS 3 AREA**	**RT**	**IS 4 AREA**	**RT**	**IS 5 AREA**	**RT**	**IS 6 AREA**	**RT**
OP36730-MB	393487	4.43	874710	5.49	469362	7.04	761268	8.47	464526	11.24	1257869	12.75
OP36730-BS	372056	4.43	840889	5.49	454457	7.04	742642	8.47	464902	11.24	1220586	12.75
OP36730-MS	384831	4.43	855785	5.49	462917	7.04	752809	8.47	466599	11.24	1208402	12.75
OP36730-MSD	369921	4.43	823718	5.49	445524	7.04	716285	8.47	449543	11.24	1163387	12.75
MC27800-19	366129	4.43	807134	5.49	432032	7.04	705553	8.47	434973	11.24	1145719	12.75
OP36724-MB	385732	4.43	847563	5.49	459004	7.04	741841	8.47	463108	11.24	1230630	12.75
OP36724-BS	368575	4.43	817759	5.49	443003	7.04	720405	8.47	453458	11.24	1193314	12.75
OP36724-MS	355324	4.43	789869	5.49	427121	7.04	703005	8.47	437656	11.24	1144165	12.75
OP36724-MSD	334266	4.43	737097	5.49	400425	7.04	648838	8.47	406843	11.24	1071027	12.75
MC27800-17	367999	4.43	810907	5.49	441816	7.04	719379	8.47	454366	11.23	1193210	12.75
ZZZZZZ	392457	4.43	859441	5.49	465811	7.04	749761	8.47	463790	11.24	1214487	12.75
ZZZZZZ	383106	4.43	844515	5.49	462162	7.04	747966	8.47	460642	11.24	1233432	12.75
OP36743-MB	367554	4.43	809068	5.49	439460	7.04	714498	8.47	444675	11.24	1162321	12.75
OP36743-BS	366379	4.43	816311	5.49	447397	7.04	723348	8.47	457639	11.24	1200711	12.75

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC28017
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSI3243-CC3238	**Injection Date:**	02/03/14
Lab File ID:	I87219.D	**Injection Time:**	15:45
Instrument ID:	GCMSI	**Method:**	SW846 8270D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	378480	4.43	832150	5.49	450648	7.04	743641	8.47	463074	11.24	1211272	12.75
Upper Limit [a]	756960	4.93	1664300	5.99	901296	7.54	1487282	8.97	926148	11.74	2422544	13.25
Lower Limit [b]	189240	3.93	416075	4.99	225324	6.54	371821	7.97	231537	10.74	605636	12.25

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
ZZZZZZ	364320	4.43	805525	5.49	435539	7.04	706301	8.47	435091	11.24	1164374	12.75
ZZZZZZ	408162	4.43	895323	5.49	478618	7.04	780288	8.47	485276	11.24	1281777	12.75
ZZZZZZ	372089	4.43	824504	5.49	446526	7.04	722742	8.47	453700	11.24	1195088	12.74
ZZZZZZ	389479	4.43	867279	5.49	469075	7.04	763700	8.47	476395	11.24	1262872	12.75
ZZZZZZ	377007	4.43	835236	5.49	453010	7.04	742875	8.47	462032	11.24	1227391	12.75
ZZZZZZ	368407	4.43	815196	5.49	442748	7.04	718918	8.47	453150	11.24	1194723	12.75
ZZZZZZ	335702	4.43	731700	5.49	397281	7.04	652031	8.47	409866	11.24	1080336	12.74
ZZZZZZ	360597	4.43	794369	5.49	429335	7.04	699691	8.47	436301	11.24	1156010	12.74
ZZZZZZ	343343	4.43	761468	5.49	405429	7.04	671615	8.47	420903	11.24	1121586	12.74
ZZZZZZ	362052	4.43	792701	5.49	428866	7.04	695893	8.47	422734	11.24	1117929	12.75
ZZZZZZ	339763	4.43	748234	5.49	406893	7.03	670695	8.47	418597	11.23	1112505	12.74
ZZZZZZ	353596	4.43	784069	5.49	428567	7.04	694274	8.47	435024	11.24	1156653	12.75
ZZZZZZ	366664	4.43	809202	5.49	439157	7.04	717632	8.47	453676	11.23	1180204	12.74
ZZZZZZ	350558	4.43	770757	5.49	419289	7.04	686401	8.47	427248	11.24	1140270	12.74
ZZZZZZ	381099	4.43	835822	5.49	456993	7.04	745145	8.47	473307	11.23	1246093	12.75
ZZZZZZ	346672	4.43	767525	5.49	415432	7.04	675577	8.47	427517	11.24	1119263	12.74
MC28017-1	377654	4.43	831818	5.49	449607	7.04	741670	8.47	470781	11.24	1215770	12.75
MC28017-2	373424	4.43	823997	5.49	442410	7.04	726371	8.47	450913	11.24	1175996	12.75
MC28017-3	370778	4.43	811063	5.49	433805	7.04	703396	8.47	436862	11.24	1129852	12.75
MC28017-4	366793	4.43	801865	5.49	427373	7.04	687688	8.47	432725	11.24	1120021	12.75
ZZZZZZ	354455	4.43	782425	5.49	422772	7.04	688064	8.47	435298	11.24	1139543	12.74
ZZZZZZ	327695	4.44	693797	5.49	377252	7.04	622488	8.47	396187	11.24	1049446	12.74
ZZZZZZ	334440	4.43	732277	5.49	393745	7.04	653091	8.47	417357	11.24	1081811	12.75
ZZZZZZ	357062	4.43	766743	5.49	413870	7.04	676557	8.47	432862	11.24	1122854	12.75
ZZZZZZ	375272	4.44	790432	5.50	433716	7.04	718080	8.47	458081	11.24	1181055	12.75
ZZZZZZ	330280	4.43	721611	5.49	387100	7.04	634368	8.47	407602	11.23	1064051	12.74
OP36732-MB	385760	4.43	859916	5.49	467448	7.04	760207	8.47	479930	11.24	1217608	12.75
ZZZZZZ	382940	4.43	842686	5.49	456938	7.04	749210	8.47	475655	11.24	1216815	12.75
ZZZZZZ	374532	4.43	823964	5.49	443317	7.04	725860	8.47	453496	11.24	1143024	12.74
ZZZZZZ	385129	4.43	858047	5.48	462237	7.04	756320	8.47	478849	11.24	1222451	12.75
ZZZZZZ	371885	4.43	821436	5.49	442747	7.04	722814	8.47	458250	11.24	1180339	12.75
ZZZZZZ	385939	4.43	845466	5.49	450702	7.04	737727	8.47	464089	11.24	1186927	12.75
ZZZZZZ	331939	4.43	751368	5.49	371838	7.04	679858	8.47	439101	11.24	1164677	12.75
ZZZZZZ	328461	4.43	742375	5.49	371175	7.04	670258	8.46	426175	11.24	1127881	12.75
ZZZZZZ	300560	4.43	679374	5.49	342452	7.04	617108	8.46	394912	11.23	1055853	12.74

Semivolatile Internal Standard Area Summary

Job Number: MC28017
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSI3243-CC3238	Injection Date:	02/03/14
Lab File ID:	I87219.D	Injection Time:	15:45
Instrument ID:	GCMSI	Method:	SW846 8270D BY SIM

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
ZZZZZZ	343300	4.43	776067	5.49	391667	7.04	703102	8.47	460059	11.23	1216652	12.74
ZZZZZZ	313774	4.43	707531	5.49	355887	7.04	639613	8.47	409243	11.23	1088411	12.74
ZZZZZZ	307275	4.43	690666	5.49	348349	7.04	624168	8.47	408222	11.23	1089661	12.74
ZZZZZZ	343796	4.43	760736	5.48	411033	7.04	665947	8.47	425676	11.24	1102991	12.74
ZZZZZZ	344681	4.43	761424	5.49	415145	7.03	672271	8.46	422334	11.24	1086671	12.74
ZZZZZZ	380132	4.43	846702	5.49	454178	7.04	741605	8.47	468129	11.24	1188011	12.74
ZZZZZZ	333709	4.43	734853	5.49	399723	7.04	650744	8.46	417804	11.23	1070659	12.74
ZZZZZZ	348429	4.43	765264	5.49	414676	7.04	670602	8.47	422869	11.23	1084923	12.74
ZZZZZZ	360181	4.43	792413	5.49	427881	7.04	699747	8.47	444968	11.24	1146945	12.74
ZZZZZZ	333114	4.43	724932	5.48	392413	7.04	646171	8.46	406966	11.23	1043672	12.74

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC28017
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSW770-CC768	**Injection Date:**	02/03/14
Lab File ID:	W17529.D	**Injection Time:**	10:56
Instrument ID:	GCMSW	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	161148	4.41	592055	5.48	400551	7.02	689822	8.32	692260	11.01	644196	12.77
Upper Limit [a]	322296	4.91	1184110	5.98	801102	7.52	1379644	8.82	1384520	11.51	1288392	13.27
Lower Limit [b]	80574	3.91	296028	4.98	200276	6.52	344911	7.82	346130	10.51	322098	12.27

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP36729-MB	166021	4.41	606871	5.48	401699	7.02	685307	8.32	714908	11.00	665142	12.76
OP36729-BS	174184	4.41	625213	5.48	422903	7.02	734412	8.32	725250	11.01	672223	12.77
OP36729-MS	160593	4.41	597426	5.48	401625	7.02	683984	8.32	700589	11.01	649437	12.77
OP36729-MSD	159546	4.41	577104	5.48	387637	7.02	666214	8.32	673122	11.01	627699	12.77
MC27800-18	153249	4.41	568389	5.48	378875	7.02	639589	8.32	649658	11.00	610566	12.76
OP36742-MB	149989	4.41	563331	5.48	374876	7.02	630099	8.32	659719	11.00	622685	12.76
OP36742-BS	154278	4.41	572858	5.48	380795	7.02	664596	8.32	671211	11.01	630372	12.77
ZZZZZZ	298855	4.41	1103458	5.48	731910	7.02	1277417	8.32	1324373	11.01	1274744	12.77
ZZZZZZ	157378	4.41	592502	5.48	382573	7.02	653253	8.32	696269	11.00	645880	12.77
ZZZZZZ	156558	4.41	583095	5.48	386721	7.02	673418	8.32	697642	11.00	659985	12.76
ZZZZZZ	162664	4.41	605347	5.48	401556	7.02	683309	8.32	698574	11.00	659945	12.76
ZZZZZZ	168116	4.41	636536	5.48	415881	7.02	703586	8.32	700551	11.00	660828	12.76
MC28017-1	169860	4.41	631593	5.48	412966	7.02	712538	8.32	740289	11.00	697513	12.77
MC28017-2	163351	4.41	591831	5.48	388285	7.02	657233	8.32	689640	11.00	644562	12.76
MC28017-3	165045	4.41	621049	5.48	395135	7.02	660797	8.32	657899	11.00	618357	12.76
MC28017-4	153375	4.41	585477	5.48	377541	7.02	634532	8.32	647214	11.00	619289	12.76
ZZZZZZ	155887	4.41	602745	5.48	402066	7.02	675424	8.32	688707	11.00	645374	12.76
ZZZZZZ	160145	4.41	586567	5.48	390319	7.02	680955	8.32	690421	11.00	654784	12.76
ZZZZZZ	161612	4.41	603124	5.48	397052	7.02	682943	8.32	723647	11.00	689687	12.76
ZZZZZZ	162948	4.41	618809	5.48	406434	7.02	692120	8.32	735149	11.00	692588	12.76

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC28017
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSW773-CC768	**Injection Date:**	02/06/14
Lab File ID:	W17583.D	**Injection Time:**	08:46
Instrument ID:	GCMSW	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	152221	4.40	578070	5.47	391139	7.01	682371	8.30	693228	10.98	644382	12.75
Upper Limit [a]	304442	4.90	1156140	5.97	782278	7.51	1364742	8.80	1386456	11.48	1288764	13.25
Lower Limit [b]	76111	3.90	289035	4.97	195570	6.51	341186	7.80	346614	10.48	322191	12.25

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP36764-MB	148920	4.40	553614	5.46	368353	7.01	632288	8.30	637213	10.98	602037	12.74
OP36764-BS	151388	4.40	566012	5.47	374467	7.01	656457	8.30	650747	10.98	605695	12.74
OP36764-BSD	158027	4.40	591462	5.47	398804	7.01	692288	8.30	698617	10.98	650388	12.74
OP36764-MS	153462	4.40	566397	5.47	380579	7.01	665505	8.30	665871	10.98	614986	12.74
OP36764-MSD	151544	4.40	566226	5.47	372176	7.01	645864	8.30	651930	10.98	598271	12.74
MC28000-10	147714	4.40	561598	5.46	370965	7.01	644265	8.30	641695	10.98	599472	12.74
ZZZZZZ	141066	4.40	526014	5.46	362783	7.01	620234	8.30	658815	10.98	622690	12.74
ZZZZZZ	149436	4.40	570730	5.46	375793	7.01	630026	8.30	645626	10.98	609553	12.74
ZZZZZZ	137349	4.40	504077	5.46	341558	7.01	599838	8.30	616655	10.98	571381	12.74
ZZZZZZ	147643	4.40	561437	5.46	372759	7.01	659488	8.30	646820	10.98	609966	12.74
ZZZZZZ	149950	4.40	561123	5.46	376533	7.01	653524	8.30	662391	10.98	616264	12.74
OP36772-BS	182159	4.40	672684	5.47	445367	7.01	756863	8.30	736531	10.98	648404	12.74
OP36763-MB	157511	4.40	581740	5.46	386468	7.01	669647	8.30	670121	10.98	623055	12.74
OP36763-BS	174362	4.40	642085	5.47	423653	7.01	728797	8.30	721375	10.98	677350	12.74
ZZZZZZ	175346	4.40	649676	5.46	417406	7.01	640873	8.30	571497	10.99	529967	12.76
ZZZZZZ	144396	4.40	543612	5.47	339231	7.01	509224	8.31	433956	11.02	429318	12.79
OP36763-MS	146596	4.40	558516	5.47	372186	7.01	620549	8.30	571765	10.99	542626	12.75
OP36763-MSD	135053	4.40	515769	5.47	345638	7.01	594133	8.30	576291	10.98	527797	12.75
MC28000-9	136366	4.40	510973	5.46	343039	7.01	580894	8.30	567857	10.98	531485	12.74
ZZZZZZ	148372	4.40	557875	5.46	364219	7.01	607267	8.30	604418	10.98	572323	12.75
ZZZZZZ	150763	4.40	564688	5.47	373160	7.01	621277	8.30	617095	10.98	583580	12.74
OP36772-MB	158105	4.40	588606	5.46	393937	7.01	670764	8.30	620343	10.98	552899	12.74
MC28017-1 [c]	193077	4.40	708602	5.47	476083	7.01	801214	8.30	814670	10.98	740403	12.75

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Confirmation run for surrogate recoveries.

Semivolatile Surrogate Recovery Summary

Job Number: MC28017
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Method: SW846 8270D **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
MC28017-1	W17607.D	16	12* [a]	58	79	74	95
MC28017-1	W17542.D	16	13* [a]	57	78	74	94
MC28017-2	W17543.D	37	28	87	68	68	91
MC28017-3	W17544.D	47	35	99	75	73	95
MC28017-4	W17545.D	43	33	95	69	68	94
OP36729-BS	W17531.D	53	37	99	89	86	104
OP36729-MB	W17530.D	47	36	88	86	86	101
OP36729-MS	W17532.D	55	38	101	86	83	100
OP36729-MSD	W17533.D	50	35	97	82	78	96

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	15-110%
S2 = Phenol-d5	15-110%
S3 = 2,4,6-Tribromophenol	15-110%
S4 = Nitrobenzene-d5	30-130%
S5 = 2-Fluorobiphenyl	30-130%
S6 = Terphenyl-d14	30-130%

(a) Outside control limits due to possible matrix interference. Confirmed by re-extraction/reanalysis.

Semivolatile Surrogate Recovery Summary

Job Number: MC28017
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Method: SW846 8270D BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC28017-1	I87238.D	81	68	89
MC28017-2	I87239.D	70	63	89
MC28017-3	I87240.D	77	67	91
MC28017-4	I87241.D	72	63	90
OP36730-BS	I87202.D	89	78	93
OP36730-MB	I87201.D	88	77	93
OP36730-MS	I87203.D	88	76	92
OP36730-MSD	I87204.D	84	71	88

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	30-130%
S2 = 2-Fluorobiphenyl	30-130%
S3 = Terphenyl-d14	30-130%

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries

Method Blank Summary

Job Number: MC28017
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36754-MB	BK34501.D	1	02/04/14	NK	02/03/14	OP36754	GBK1140

The QC reported here applies to the following samples: **Method:** SW846 8011

MC28017-1, MC28017-2, MC28017-3, MC28017-4, MC28017-6

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0054	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.011	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	Bromofluorobenzene (S)	92%	36-173%
460-00-4	Bromofluorobenzene (S)	92%	36-173%

Blank Spike Summary

Job Number: MC28017
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36754-BS	BK34502.D	1	02/04/14	NK	02/03/14	OP36754	GBK1140

The QC reported here applies to the following samples: **Method:** SW846 8011

MC28017-1, MC28017-2, MC28017-3, MC28017-4, MC28017-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
96-12-8	1,2-Dibromo-3-chloropropane	0.071	0.091	128	60-140
106-93-4	1,2-Dibromoethane	0.071	0.072	101	60-140

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	Bromofluorobenzene (S)	116%	36-173%
460-00-4	Bromofluorobenzene (S)	116%	36-173%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC28017
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36754-MS	BK34503.D	1	02/04/14	NK	02/03/14	OP36754	GBK1140
OP36754-MSD	BK34504.D	1	02/04/14	NK	02/03/14	OP36754	GBK1140
MC28000-5	BK34505.D	1	02/04/14	NK	02/03/14	OP36754	GBK1140

The QC reported here applies to the following samples: **Method:** SW846 8011

MC28017-1, MC28017-2, MC28017-3, MC28017-4, MC28017-6

CAS No.	Compound	MC28000-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
96-12-8	1,2-Dibromo-3-chloropropane	ND		0.071	0.087	123	0.071	0.095	134	9	64-141/29
106-93-4	1,2-Dibromoethane	ND		0.071	0.065	92	0.071	0.069	97	6	63-163/27

CAS No.	Surrogate Recoveries	MS	MSD	MC28000-5	Limits
460-00-4	Bromofluorobenzene (S)	110%	117%	85%	36-173%
460-00-4	Bromofluorobenzene (S)	115%	118%	95%	36-173%

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: MC28017
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Method: SW846 8011 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]
MC28017-1	BK34508.D	121	127
MC28017-2	BK34509.D	89	103
MC28017-3	BK34510.D	96	124
MC28017-4	BK34512.D	115	132
MC28017-6	BK34513.D	113	104
OP36754-BS	BK34502.D	116	116
OP36754-MB	BK34501.D	92	92
OP36754-MS	BK34503.D	110	115
OP36754-MSD	BK34504.D	117	118

Surrogate Compounds	Recovery Limits
S1 = Bromofluorobenzene (S)	36-173%

(a) Recovery from GC signal #2
(b) Recovery from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC28017
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	GBK1140-ICC1140	**Injection Date:**	02/04/14
Lab File ID:	BK34496.D	**Injection Time:**	08:58
Instrument ID:	GCBK	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.33	4.39

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
ZZZZZZ	BK34499A.D	02/04/14	10:06	4.33	4.40
OP36754-MB	BK34501.D	02/04/14	10:51	4.33	4.39
OP36754-BS	BK34502.D	02/04/14	11:14	4.33	4.39
OP36754-MS	BK34503.D	02/04/14	11:37	4.33	4.39
OP36754-MSD	BK34504.D	02/04/14	11:59	4.33	4.39
MC28000-5	BK34505.D	02/04/14	12:22	4.33	4.39
ZZZZZZ	BK34506.D	02/04/14	12:44	4.33	4.39
ZZZZZZ	BK34507.D	02/04/14	13:07	4.33	4.39
MC28017-1	BK34508.D	02/04/14	13:30	4.33	4.39
MC28017-2	BK34509.D	02/04/14	13:53	4.33	4.39
MC28017-3	BK34510.D	02/04/14	14:15	4.33	4.39

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC28017
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	GBK1140-CC1140	**Injection Date:**	02/04/14
Lab File ID:	BK34511.D	**Injection Time:**	14:38
Instrument ID:	GCBK	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.33	4.40

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
MC28017-4	BK34512.D	02/04/14	15:01	4.33	4.39
MC28017-6	BK34513.D	02/04/14	15:24	4.33	4.39
ZZZZZZ	BK34514.D	02/04/14	15:47	4.33	4.40
ZZZZZZ	BK34515.D	02/04/14	16:10	4.33	4.39
GBK1140-ECC114	BK34516.D	02/04/14	16:32	4.33	4.39

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

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Automated Report

Technical Report for

Shell Oil

URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana,

SGS Accutest Job Number: MC28046

Sampling Date: 01/31/14



Report to:

AECOM, INC.

Melissa.mansker@aecom.com

ATTN: Melissa Mansker

Total number of pages in report: 119

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

H. (Brad) Madadian
Lab Director

Client Service contact: Jeremy Vienneau 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO (MA00136) MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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Test results relate only to samples analyzed.

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SGS ACCUTEST

November 2, 2016

AECOM
1001 Highlands Plaza Drive West Suite 300
St. Louis, MO 63110

RE: SGS Accutest Job # MC28046

Dear Elizabeth Kunkel

As you are aware, SGS Accutest Inc. - Marlboroug has been conducting an extensive review of data associated with some historical Gas Chromatography-Mass Spectroscopy volatiles analyses. As a result of this review it was determined that some revisions of the original test report for this job were needed. These corrections have been incorporated into the revised report.

Please be assured that corrective actions have been put in place to address this matter and prevent a recurrence.

We apologize for any inconvenience that this issue may have caused. Please don't hesitate to contact us if we can be of further assistance.

Sincerely



H. (Brad) Madadian

Regional Laboratory Director
SGS Accutest Inc. - Marlborough

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY. NN

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Sample Summary

Shell Oil

Job No: MC28046

URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC28046-1	01/31/14	15:10	DMMM	02/01/14	AQ	Ground Water	P93D-ROX-013114
MC28046-2	01/31/14	00:00	DMMM	02/01/14	AQ	Trip Blank Water	TB-ROX-013114-HCL
MC28046-3	01/31/14	00:00	DMMM	02/01/14	AQ	Trip Blank Water	TB-ROX-013114-ST

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: She O **Job No** MC28046

Site: URSMOSTL:Roxana Q 4 GW/ 2 562973 0300 900 South Centra **Report Date** /2/20 6 2: 0:59 PM

Samp e(s), 2 Tr p B ank(s) were co ected on 0 /3 /20 4 and were rece ved at SGS Accutest New Eng and on 02/0 /20 4 proper y preserved, at 2 Deg C and ntact These Samp es rece ved a job number of MC28046 A st ng of the Laboratory Samp e ID, C ent Samp e ID and dates of co ect on are presented n the Resu ts Summary Sect on of th s report -Ch orohexane, Benzeneth o ,
D benz(a,h)acr d ne, Indene, and Qu no ne were searched n the brary search and repo ted on y f detect ons were found

Except as noted be ow, a method spec f ed ca brat ons and qua ty contro performance cr ter a were met for th s job For more nformat on, p ease refer to QC summary pages

Volatiles by GCMS By Method SW846 8260C

Matrix: AQ **Batch ID:** MSV 046

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC28 3-4MS, MC28 3-4MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a
- B ank Sp ke Recovery(s) for Ch oroethane are outs de contro m ts
- Matr x Sp ke Recovery(s) for 2-Butanone (MEK), 2-Ch oroethy v ny ether, Acetone are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference
- Matr x Sp ke Dup cate Recove y(s) for 2-Butanone (MEK), 2-Ch oroethy v ny ether, 2-Hexanone, Acetone are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference
- ,4-D oxane, Carbon d su f de, D ch orod f uoromethane: Cont nu ng Ca brat on outs de of acceptance cr ter a Samp e resu t may be b ased ow

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP36776

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- A method b anks for th s batch meet method spec f c cr ter a
- Samp e(s) MC28000- MS, MC28000- MSD were used as the QC samp es nd cated
- B ank Sp ke Recovery(s) for Hexach orocyc opentad ene are outs de contro m ts

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP36750

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC28000-4MS, MC28000-4MSD were used as the QC samp es nd cated
- Samp e(s) MC28046- have compound(s) repo ted w th a “B” qua f er, nd cat ng ana yte s found n the assoc ated method b ank

Volatiles by GC By Method SW846 8011

Matrix: AQ **Batch ID:** OP36754

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- A method b anks for th s batch meet method spec f c cr ter a
- Samp e(s) MC28000-5MS, MC28000-5MSD were used as the QC samp es nd cated

SGS Accutest New Eng and cert f es that a ana ys s were performed w th n method spec f cat on It s further recommended that th s report to be used n ts ent rety The Laborato y D rector for SGS Accutest New Eng and or ass gnee as ver f ed by the s gnature on the cover page has author zed the re ease of th s repo t(MC28046)

Summary of Hits

Job Number: MC28046
Account: Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL
Collected: 01/31/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC28046-1	P93D-ROX-013114					
Benzene		1.2	0.50	0.45	ug/l	SW846 8260C
Chlorobenzene		0.62 J	1.0	0.48	ug/l	SW846 8260C
1,2-Dichloropropane		4.4	2.0	0.45	ug/l	SW846 8260C
Methyl Tert Butyl Ether		1.1	1.0	0.43	ug/l	SW846 8260C
bis(2-Ethylhexyl)phthalate		4.5	2.1	0.52	ug/l	SW846 8270D
Phenanthrene		0.024 JB	0.053	0.013	ug/l	SW846 8270D BY SIM
MC28046-2	TB-ROX-013114-HCL					
No hits reported in this sample.						
MC28046-3	TB-ROX-013114-ST					
No hits reported in this sample.						

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	P93D-ROX-013114		
Lab Sample ID:	MC28046-1	**Date Sampled:**	01/31/14
Matrix:	AQ - Ground Water	**Date Received:**	02/01/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V27774.D	1	02/10/14	AMY	n/a	n/a	MSV1046
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	1.2	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	4.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide [a]	ND	5.0	0.77	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	0.62	1.0	0.48	ug/l	J
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93D-ROX-013114		
Lab Sample ID:	MC28046-1	**Date Sampled:**	01/31/14
Matrix:	AQ - Ground Water	**Date Received:**	02/01/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	4.4	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
123-91-1	1,4-Dioxane [a]	ND	25	16	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	3.9	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.1	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.91	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

ND = Not detected MDL = Method Detection Limit
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E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93D-ROX-013114		
Lab Sample ID:	MC28046-1	**Date Sampled:**	01/31/14
Matrix:	AQ - Ground Water	**Date Received:**	02/01/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		70-130%
2037-26-5	Toluene-D8	97%		70-130%
460-00-4	4-Bromofluorobenzene	104%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93D-ROX-013114		
Lab Sample ID:	MC28046-1	**Date Sampled:**	01/31/14
Matrix:	AQ - Ground Water	**Date Received:**	02/01/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F71524.D	1	02/11/14	WK	02/06/14	OP36776	MSF3184
Run #2							

	Initial Volume	Final Volume
Run #1	940 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.3	0.41	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.52	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.35	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	1.3	ug/l	
95-48-7	2-Methylphenol	ND	11	1.4	ug/l	
	3&4-Methylphenol	ND	11	2.2	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.53	ug/l	
100-02-7	4-Nitrophenol	ND	21	0.62	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.3	ug/l	
108-95-2	Phenol	ND	5.3	0.54	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.61	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.34	ug/l	
62-53-3	Aniline	ND	11	0.68	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	0.22	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.3	0.91	ug/l	
100-51-6	Benzyl Alcohol	ND	11	0.61	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	0.98	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.27	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	0.22	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	0.25	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	0.14	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	0.21	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.3	0.69	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.72	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.68	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	0.53	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.17	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.3	0.41	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.3	0.46	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93D-ROX-013114		
Lab Sample ID:	MC28046-1	**Date Sampled:**	01/31/14
Matrix:	AQ - Ground Water	**Date Received:**	02/01/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.3	0.53	ug/l	
131-11-3	Dimethyl phthalate	ND	5.3	0.53	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	4.5	2.1	0.52	ug/l	
118-74-1	Hexachlorobenzene	ND	5.3	0.32	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.7	ug/l	
67-72-1	Hexachloroethane	ND	5.3	0.47	ug/l	
78-59-1	Isophorone	ND	5.3	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.30	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.53	ug/l	
100-01-6	4-Nitroaniline	ND	11	4.6	ug/l	
98-95-3	Nitrobenzene	ND	5.3	0.26	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.3	0.53	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	0.86	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.58	ug/l	
110-86-1	Pyridine	ND	11	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	21%		15-110%
4165-62-2	Phenol-d5	15%		15-110%
118-79-6	2,4,6-Tribromophenol	63%		15-110%
4165-60-0	Nitrobenzene-d5	67%		30-130%
321-60-8	2-Fluorobiphenyl	70%		30-130%
1718-51-0	Terphenyl-d14	85%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93D-ROX-013114		
Lab Sample ID:	MC28046-1	**Date Sampled:**	01/31/14
Matrix:	AQ - Ground Water	**Date Received:**	02/01/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I87296.D	1	02/04/14	MR	02/03/14	OP36750	MSI3244
Run #2							

	Initial Volume	Final Volume
Run #1	940 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.11	0.073	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.053	ug/l	
120-12-7	Anthracene	ND	0.11	0.098	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.053	0.021	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.031	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.053	0.034	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.029	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.041	ug/l	
218-01-9	Chrysene	ND	0.11	0.025	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.034	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.043	ug/l	
86-73-7	Fluorene	ND	0.11	0.11	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.033	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.21	0.053	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.21	0.079	ug/l	
85-01-8	Phenanthrene	0.024	0.053	0.013	ug/l	JB
129-00-0	Pyrene	ND	0.11	0.041	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	58%		30-130%
321-60-8	2-Fluorobiphenyl	49%		30-130%
1718-51-0	Terphenyl-d14	71%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93D-ROX-013114		
Lab Sample ID:	MC28046-1	**Date Sampled:**	01/31/14
Matrix:	AQ - Ground Water	**Date Received:**	02/01/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK34514.D	1	02/04/14	NK	02/03/14	OP36754	GBK1140
Run #2							

	Initial Volume	Final Volume
Run #1	36.7 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.014	0.0052	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	111%		36-173%
460-00-4	Bromofluorobenzene (S)	102%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-013114-HCL		
Lab Sample ID:	MC28046-2	**Date Sampled:**	01/31/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	02/01/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V27756.D	1	02/10/14	AMY	n/a	n/a	MSV1046
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	4.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide [a]	ND	5.0	0.77	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-013114-HCL		
Lab Sample ID:	MC28046-2	**Date Sampled:**	01/31/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	02/01/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
123-91-1	1,4-Dioxane [a]	ND	25	16	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	3.9	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.91	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-013114-HCL		
Lab Sample ID:	MC28046-2	**Date Sampled:**	01/31/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	02/01/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		70-130%
2037-26-5	Toluene-D8	96%		70-130%
460-00-4	4-Bromofluorobenzene	104%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-013114-ST		
Lab Sample ID:	MC28046-3	**Date Sampled:**	01/31/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	02/01/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK34515.D	1	02/04/14	NK	02/03/14	OP36754	GBK1140
Run #2							

	Initial Volume	Final Volume
Run #1	36.2 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0052	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	108%		36-173%
460-00-4	Bromofluorobenzene (S)	106%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

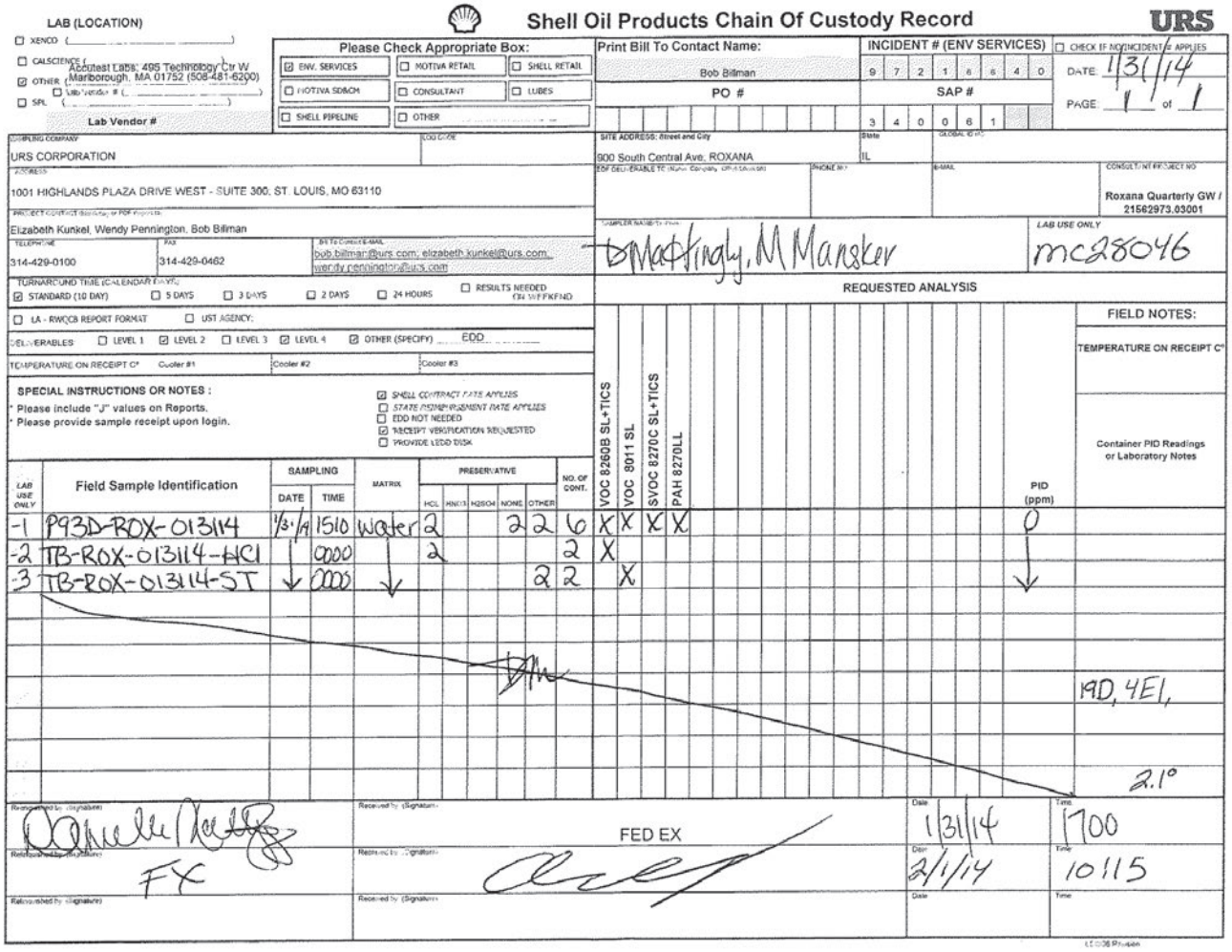
Includes the following where applicable:

- Chain of Custody
- REPROC Form: Reprocessed/Corrected Data
- Sample Tracking Chronicle
- Internal Chain of Custody

LAB (LOCATION)

☐ XENCO ( )
☐ CALSCIENCE ( )
☑ OTHER (Accutest Labs: 495 Technology Ctr W Marlborough, MA 01752 (508-481-6200))
☐ Lab Vendor # ( )
☐ SPL ( )

Lab Vendor #



Shell Oil Products Chain Of Custody Record

URS

Please Check Appropriate Box:

☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Bob Billman

PO #

INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0

SAP #: 3 4 0 0 6 1

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 1/31/14

PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION

LOG CODE:

SITE ADDRESS: Street and City: 900 South Central Ave, ROXANA

State: IL

GLOBAL ID NO.:

ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300, ST. LOUIS, MO 63110

EDF DELIVERABLE TO (Name, Company, Office Location):

PHONE NO.:

E-MAIL:

CONSULTANT PROJECT NO.: Roxana Quarterly GW / 21562973.03001

PROJECT CONTACT (Spreadsheet or PDF Reports): Elizabeth Kunkel, Wendy Pennington, Bob Billman

TELEPHONE: 314-429-0100

FAX: 314-429-0462

BILL TO CONTACT E-MAIL: bob.billman@urs.com; elizabeth.kunkel@urs.com; wendy.pennington@urs.com

SAMPLER NAME(S) PRINT: D Mattingly, M Mansker

LAB USE ONLY: mc28046

TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (10 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☑ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☑ OTHER (SPECIFY) EDD

TEMPERATURE ON RECEIPT C°: Cooler #1 Cooler #2 Cooler #3

SPECIAL INSTRUCTIONS OR NOTES:
* Please include "J" values on Reports.
* Please provide sample receipt upon login.

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8260B SL+TICS	VOC 8011 SL	SVOC 8270C SL+TICS	PAH 8270LL	PID (ppm)	Container PID Readings or Laboratory Notes
-1	P93D-ROX-013114	1/31/14	1510	Water	2			2	2	6	X	X	X	X	0	
-2	TB-ROX-013114-HCl	↓	0000	↓	2					2	X				↓	
-3	TB-ROX-013114-ST	↓	0000	↓					2	2		X			↓	

19D, 4E1,

2.1°

Relinquished by (Signature)	Received by (Signature)	Date	Time
[signature]	FED EX	1/31/14	1700
FX	[signature]	2/1/14	10:15

LEDDS Revision

MC28046: Chain of Custody
Page 1 of 2

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SGS ACCUTEST
MC28046

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC28046 **Client:** URS **Immediate Client Services Action Required:** No

Date / Time Received: 2/1/2014 **Delivery Method:** **Client Service Action Required at Login:** No

Project: 900 SOUTH CENTRAL **No. Coolers:** 1 **Airbill #'s:**

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Infared gun		
3. Cooler media:	Ice (bag)		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

Marlborough, MA
www/accutest.com

5.1

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MC28046: Chain of Custody
Page 2 of 2

Initial Calibration Summary

Job Number: MC28046 **Sample:** MSV1019-ICC1019
Account: SHELLWIC Shell Oil **Lab FileID:** V26938.D
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Response Factor Report MSV

Method : O:\msv\1\methods\v140107wx.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Calibration Files
0.25=v26932.d 0.5 =v26933.d 1 =v26934.d 2 =v26935.d
5 =v26936.d 10 =v26937.d 50 =v26938.d 100 =v26939.d
200 =v26940.d 400 =v26942.d = =

Compound

	0.25	0.5	1	2	5	10	50	100	200	400	Avg	%RSD
1) I tert butyl alcohol-d9 ----------ISTD----------												
2) Ethanol				0.166	0.141	0.140	0.070	0.095	0.070	0.077	0.108	36.81
---- Linear regression ---- Coefficient = 0.9924												
Response Ratio = 0.07206 + 0.07518 *A												
3) I pentafluorobenzene ----------ISTD----------												
4) chloroethane				0.708	0.546	0.470	0.438	0.407	0.399	0.368	0.311	0.456	27.04
---- Linear regression ---- Coefficient = 0.9911												
Response Ratio = 0.00673 + 0.37855 *A												

(#) = Out of Range ### Number of calibration levels exceeded format ###

v140107wx.m Mon Oct 12 12:04:54 2015

Initial Calibration Verification

Job Number: MC28046 **Sample:** MSV1019-ICV1019
Account: SHELLWIC Shell Oil **Lab FileID:** V26944.D
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Evaluate Continuing Calibration Report

Data File : O:\msv\1\databackup\v140107\v26944.d Vial: 22
Acq On : 7 Jan 2014 7:05 pm Operator: amym
Sample : icv1019-50 Inst : MSV
Misc : MS30921,MSV1019,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : O:\msv\1\methods\v140107wx.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Oct 12 12:03:49 2015
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	tert butyl alcohol-d9	1.000	1.000	0.0	110	-0.01	3.51
		Amount	Calc.	%Drift			
2 p	Ethanol	5000.000	6281.655	-25.6#	160	0.01	2.50
		AvgRF	CCRF	%Dev			
3 I	pentafluorobenzene	1.000	1.000	0.0	113	0.00	6.55
		Amount	Calc.	%Drift			
4 p	chloroethane	50.000	55.636	-11.3	119	0.00	2.15

(#) = Out of Range SPCC's out = 0 CCC's out = 0
v26938.d v140107wx.m Mon Oct 12 12:05:26 2015

Continuing Calibration Summary

Job Number: MC28046 **Sample:** MSV1046-CC1019
Account: SHELLWIC Shell Oil **Lab FileID:** V27750.D
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Evaluate Continuing Calibration Report

Data File : O:\msv\1\databackup\v140210\v27750.d Vial: 3
Acq On : 10 Feb 2014 9:10 am Operator: amym
Sample : cc1019-50 Inst : MSV
Misc : MS31098,MSV1046,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : O:\msv\1\methods\v140107wx.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Oct 12 12:03:49 2015
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	tert butyl alcohol-d9	1.000	1.000	0.0	89	0.00	3.52
		Amount	Calc.	%Drift			
2 p	Ethanol	5000.000	9203.600	-84.1#	185	0.02	2.51
		AvgRF	CCRF	%Dev			
3 I	pentafluorobenzene	1.000	1.000	0.0	82	0.00	6.57
		Amount	Calc.	%Drift			
4 p	chloroethane	50.000	57.865	-15.7	90	0.00	2.16

(#) = Out of Range SPCC's out = 0 CCC's out = 0
v26938.d v140107wx.m Fri Nov 20 08:48:36 2015

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26932.d
Acq On : 7 Jan 2014 12:30 pm
Operator : amym
Sample : ic1019-0.25
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

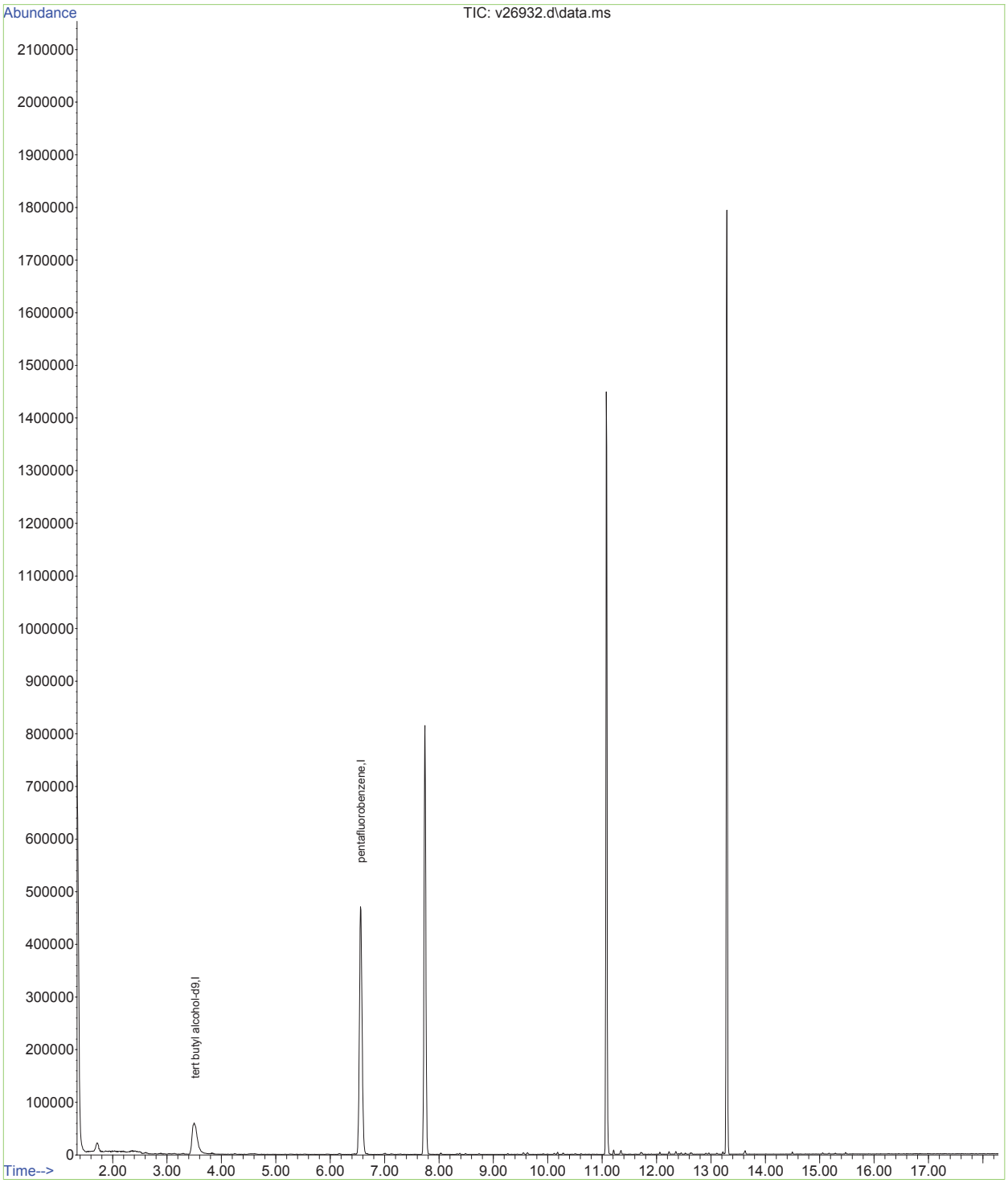
Quant Time: Oct 12 11:50:29 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.522	65	168440	500.00	ug/L	0.00
3) pentafluorobenzene	6.564	168	534929	50.00	ug/L	0.00
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msv\1\databackup\v140107\
Data File : v26932.d
Acq On : 7 Jan 2014 12:30 pm
Operator : amym
Sample : ic1019-0.25
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 12 11:50:29 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26933.d
Acq On : 7 Jan 2014 12:56 pm
Operator : amym
Sample : ic1019-0.5
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

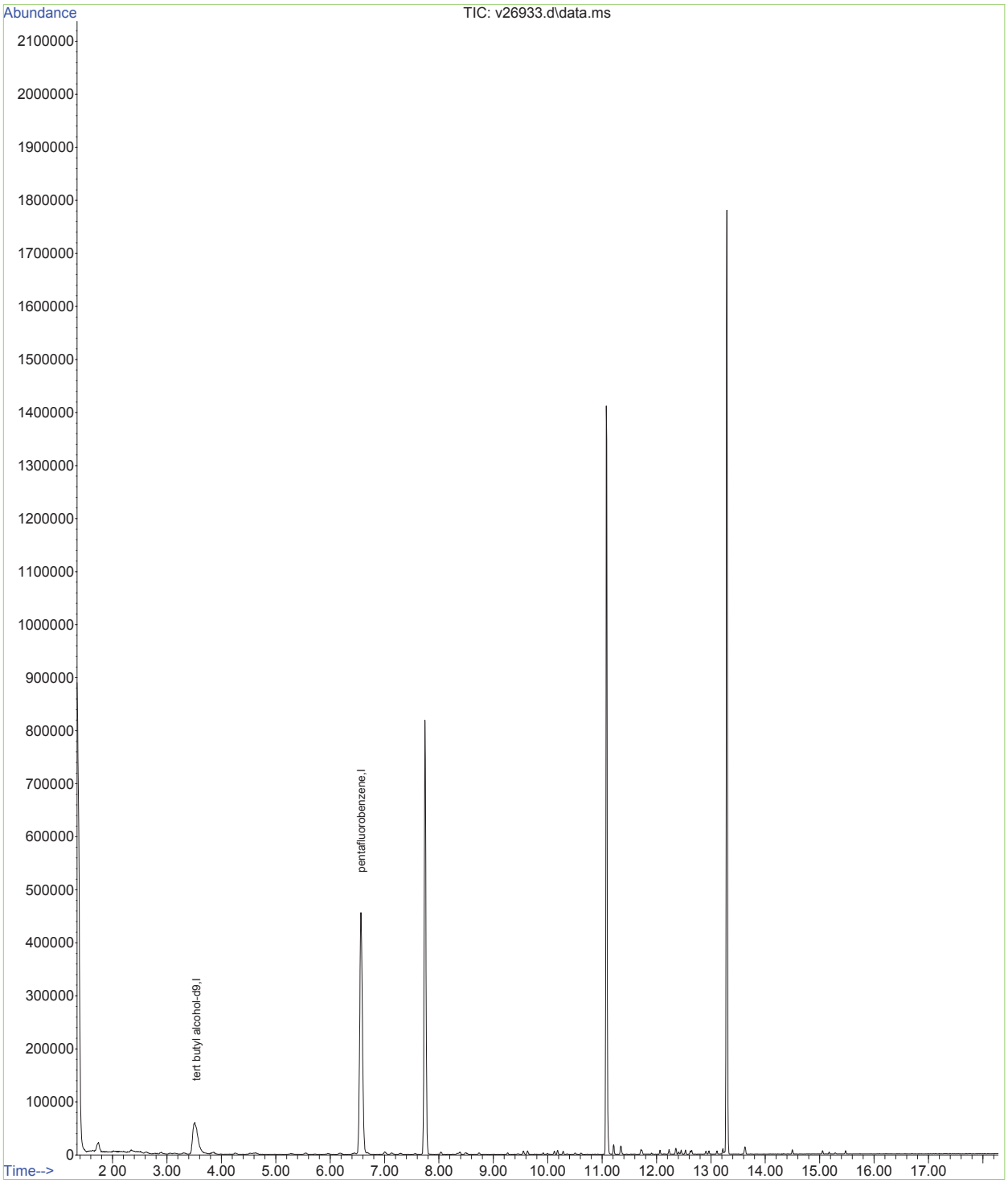
Quant Time: Oct 12 11:50:59 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.537	65	168993	500.00	ug/L	0.01
3) pentafluorobenzene	6.570	168	523768	50.00	ug/L	0.01
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msv\1\databackup\v140107\
Data File : v26933.d
Acq On : 7 Jan 2014 12:56 pm
Operator : amym
Sample : ic1019-0.5
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 12 11:50:59 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26934.d
Acq On : 7 Jan 2014 1:22 pm
Operator : amym
Sample : ic1019-1
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

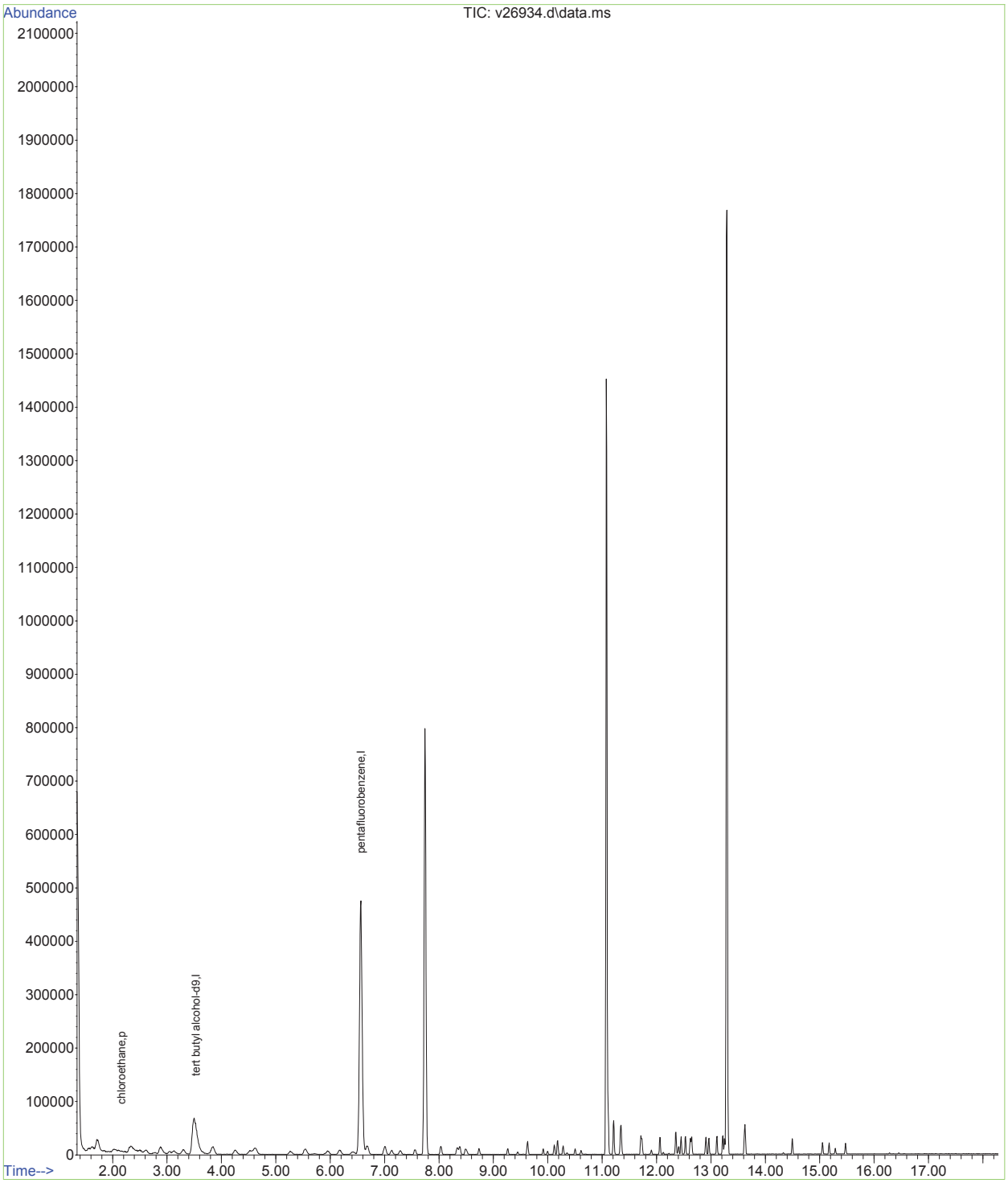
Quant Time: Oct 12 11:52:02 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.527	65	169438	500.00	ug/L	0.00
3) pentafluorobenzene	6.565	168	527887	50.00	ug/L	0.00
Target Compounds						Qvalue
4) chloroethane	2.159	64	7471m	1.74	ug/L	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

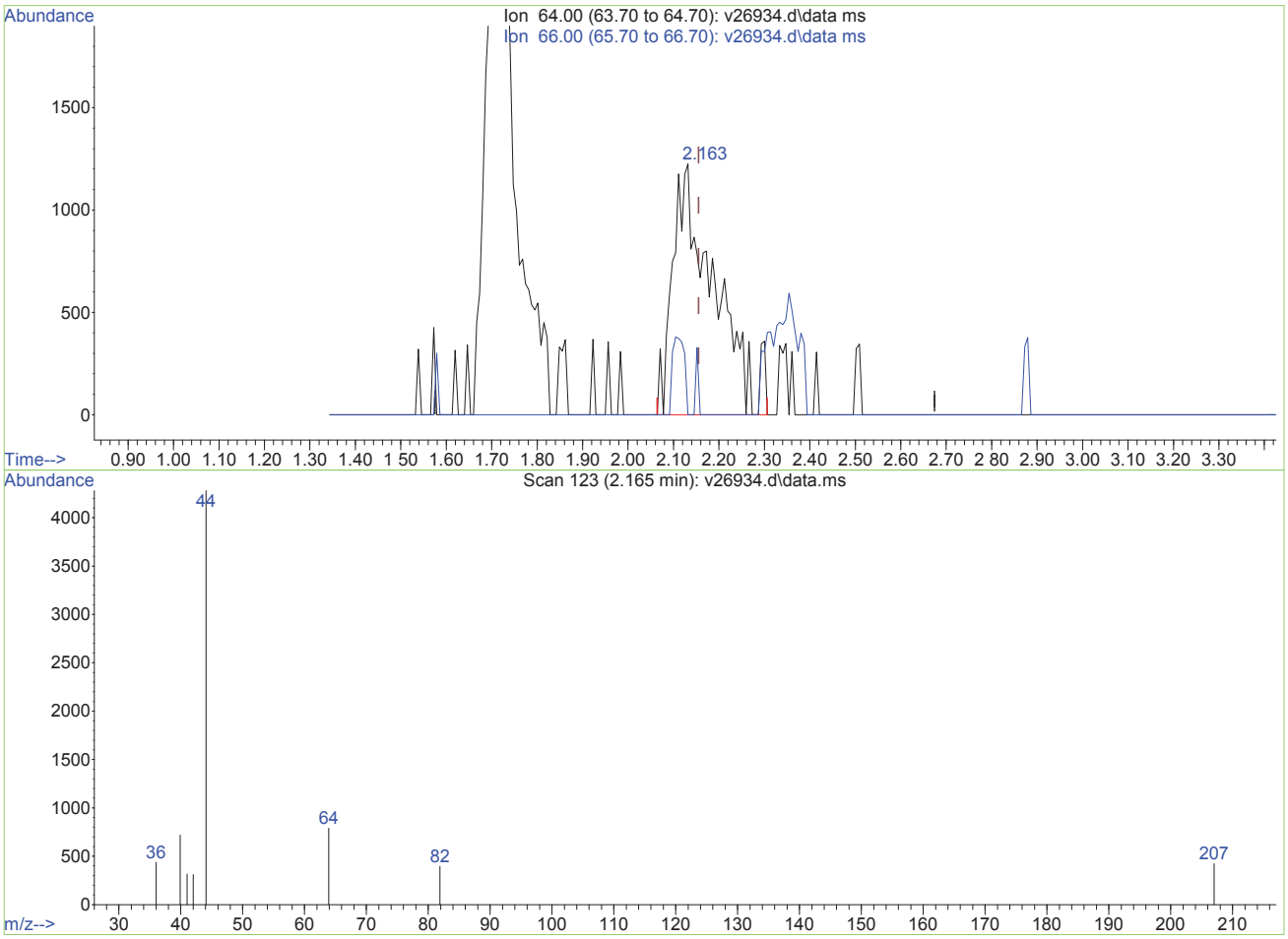
Data Path : O:\msv\1\databackup\v140107\
Data File : v26934.d
Acq On : 7 Jan 2014 1:22 pm
Operator : amym
Sample : ic1019-1
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 12 11:52:02 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Data Path : O:\msv\1\databackup\v140107\
Data File : v26934.d
Acq On : 7 Jan 2014 1:22 pm
Operator : amym
Sample : ic1019-1
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 12 11:49:53 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26934.d\data.ms

(4) chloroethane (p)

2.163min (+0.008) 1.81ug/L

response 7756

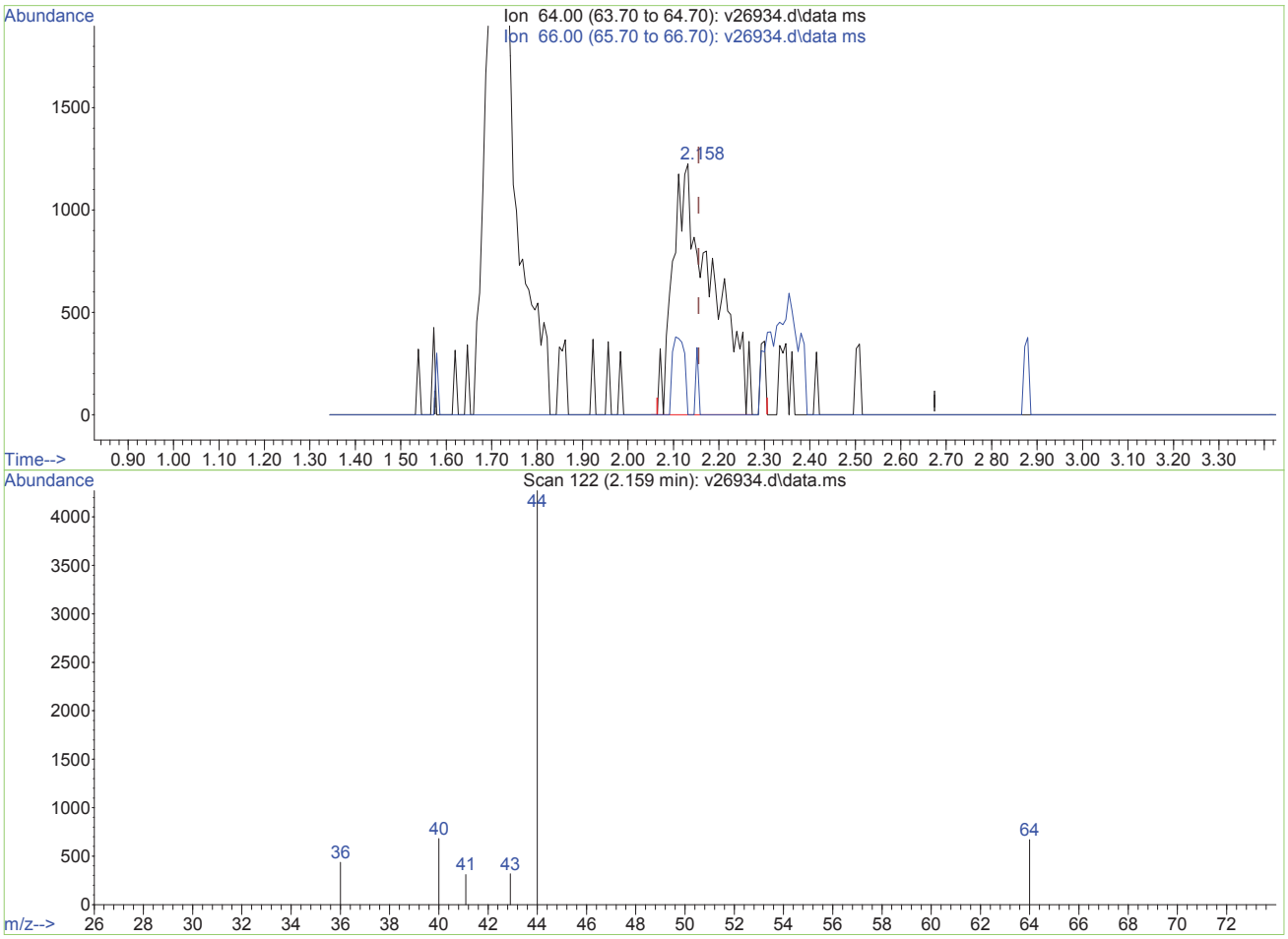
Ion	Exp%	Act%
64.00	100	100
66.00	34.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26934.D edits: chloroethane

SGS ACCUTEST MC28046

Data Path : O:\msv\1\databackup\v140107\
Data File : v26934.d
Acq On : 7 Jan 2014 1:22 pm
Operator : amym
Sample : ic1019-1
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 12 11:49:53 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26934.d\data.ms

(4) chloroethane (p)

2.159min (+0.003) 1.74ug/L m

response 7471

Ion	Exp%	Act%
64.00	100	100
66.00	34.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26934.D edits: chloroethane

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26935.d
Acq On : 7 Jan 2014 1:49 pm
Operator : amym
Sample : ic1019-2
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 12 11:52:51 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

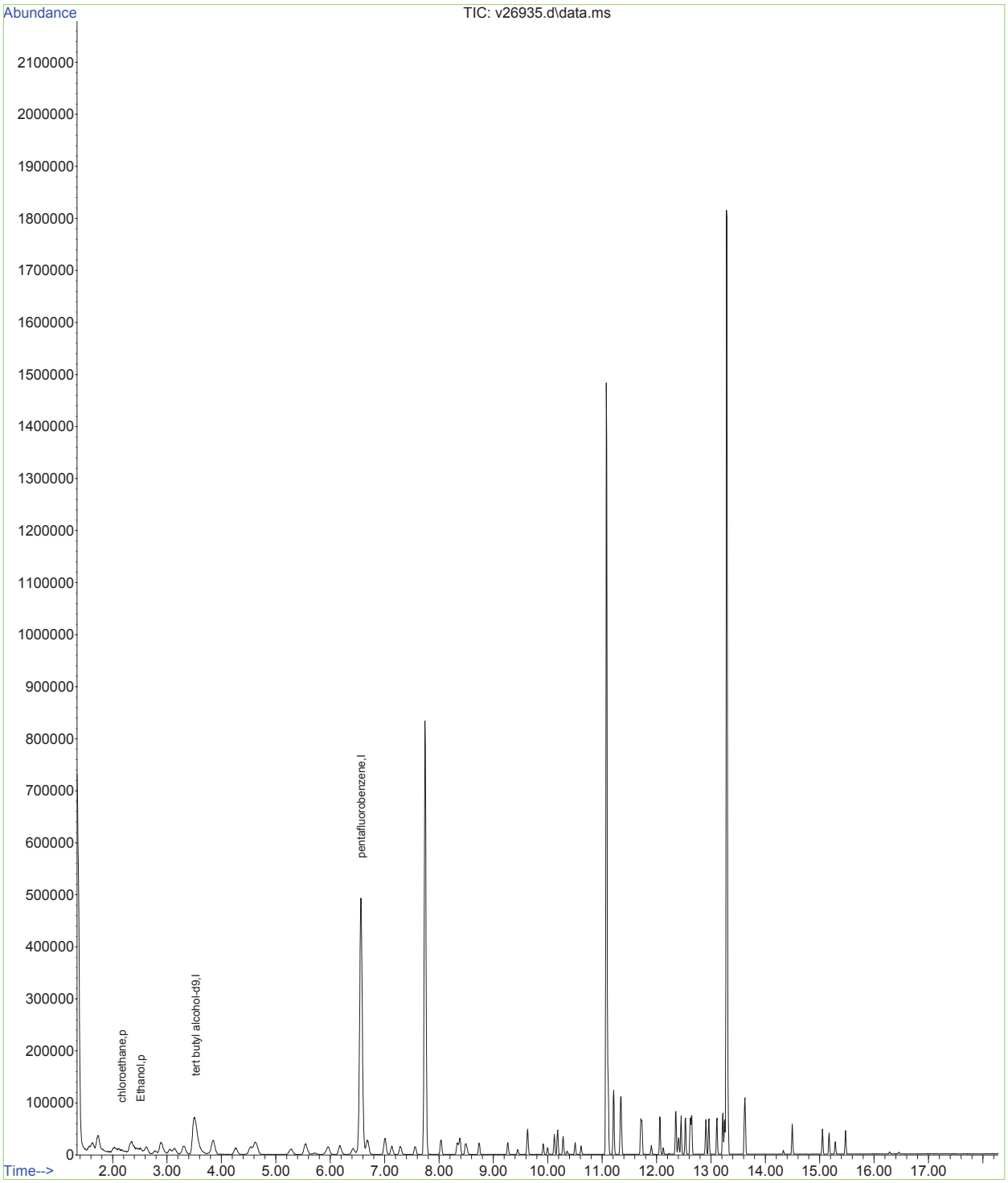
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.533	65	165100	500.00	ug/L	0.01
3) pentafluorobenzene	6.569	168	548060	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.516	45	10989m	474.44	ug/L	
4) chloroethane	2.170	64	11967	2.68	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST MC28046

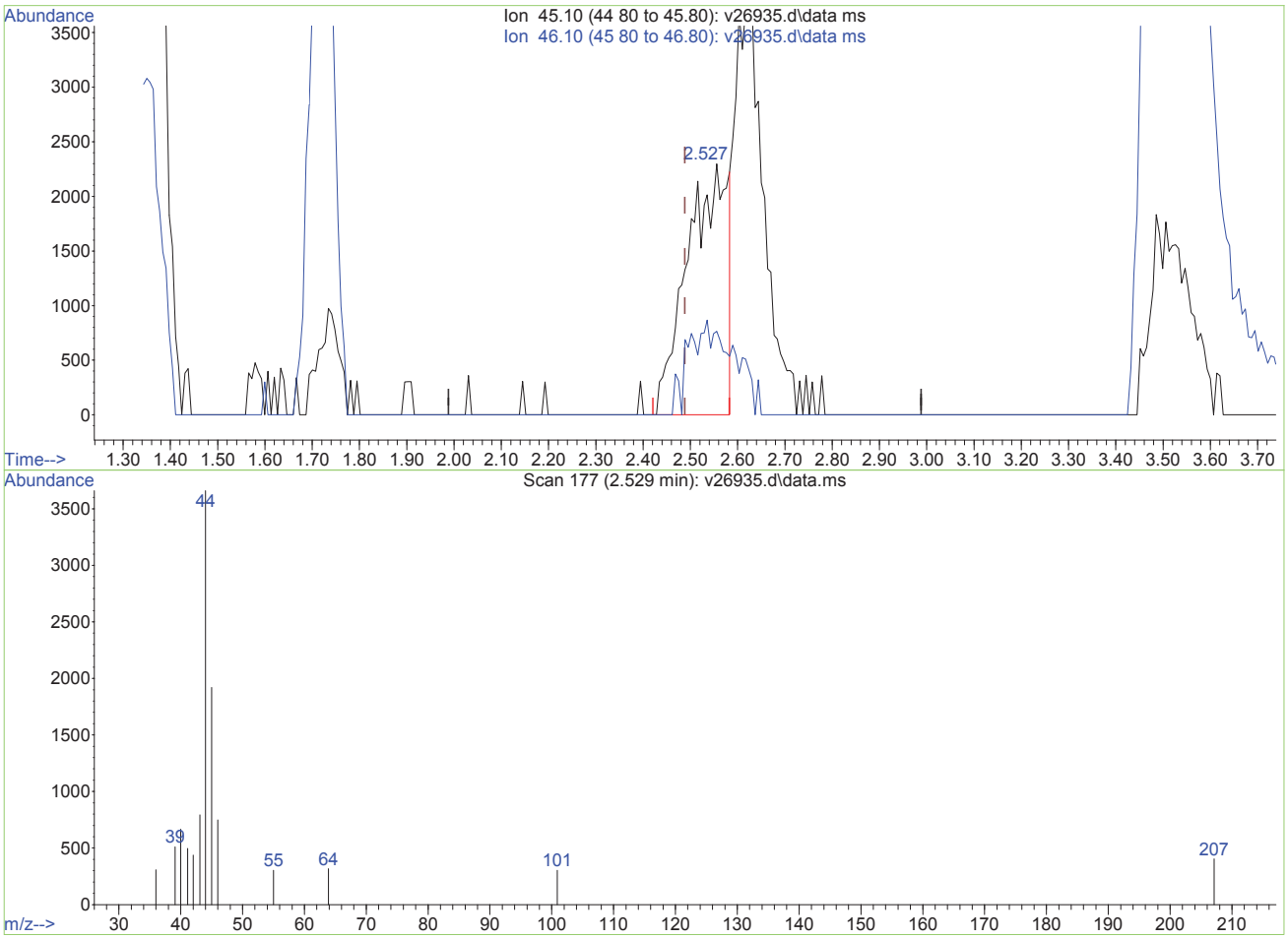
Data Path : O:\msv\1\databackup\v140107\
Data File : v26935.d
Acq On : 7 Jan 2014 1:49 pm
Operator : amym
Sample : ic1019-2
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 12 11:52:51 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Data Path : O:\msv\1\databackup\v140107\
Data File : v26935.d
Acq On : 7 Jan 2014 1:49 pm
Operator : amym
Sample : ic1019-2
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 12 11:49:55 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26935.d\data.ms

(2) Ethanol (p)

2.527min (+0.039) 585.36ug/L

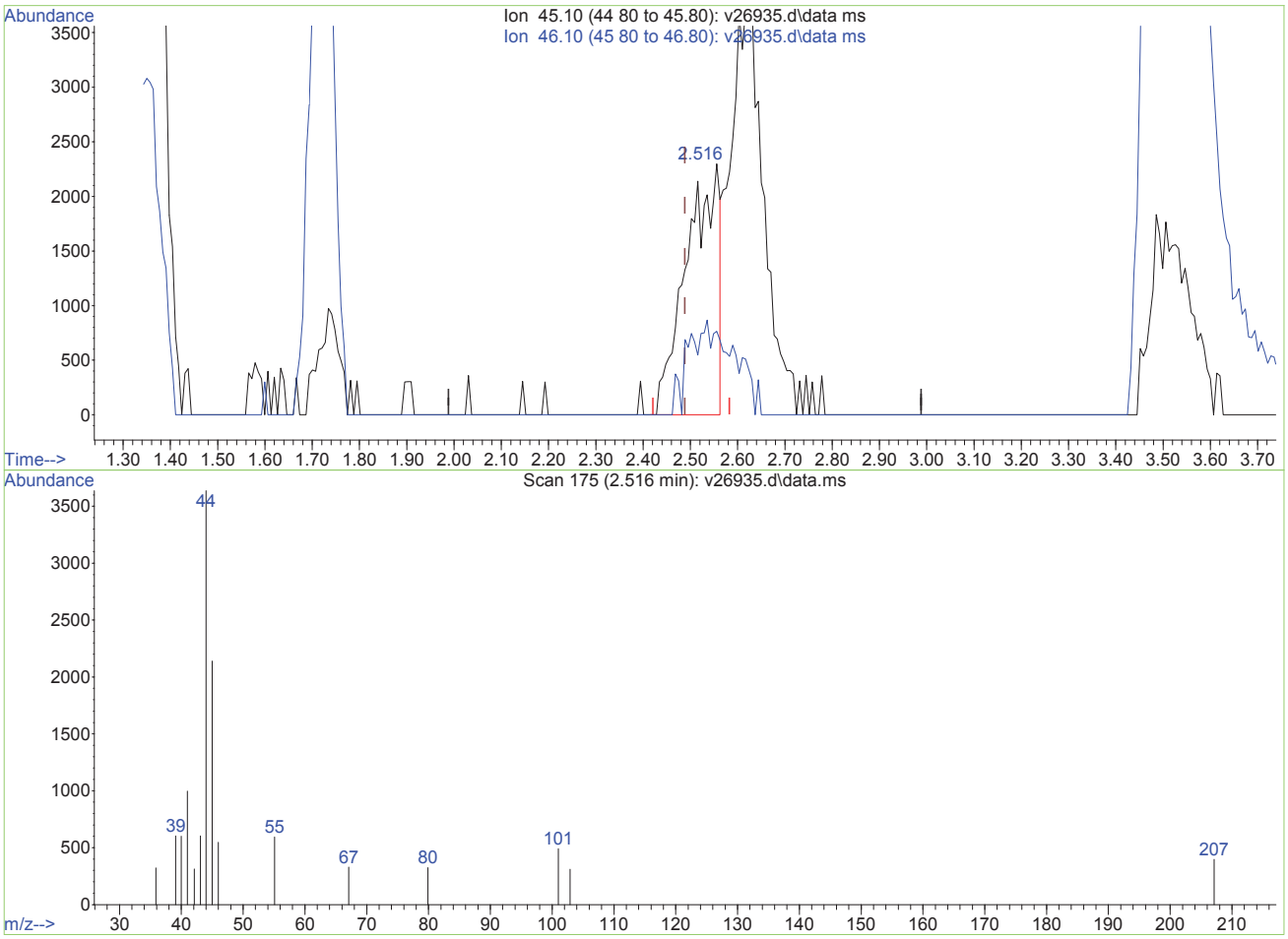
response 13558

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	43.04#
0.00	0.00	0.00
0.00	0.00	0.00

V26935.D edits: Ethanol

Data Path : O:\msv\1\databackup\v140107\
Data File : v26935.d
Acq On : 7 Jan 2014 1:49 pm
Operator : amym
Sample : ic1019-2
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 12 11:49:55 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26935.d\data.ms

(2) Ethanol (p)

2.516min (+0.027) 474.44ug/L m

response 10989

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	53.11#
0.00	0.00	0.00
0.00	0.00	0.00

V26935.D edits: Ethanol

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26936.d
Acq On : 7 Jan 2014 2:16 pm
Operator : amym
Sample : ic1019-5
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 12 11:49:57 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

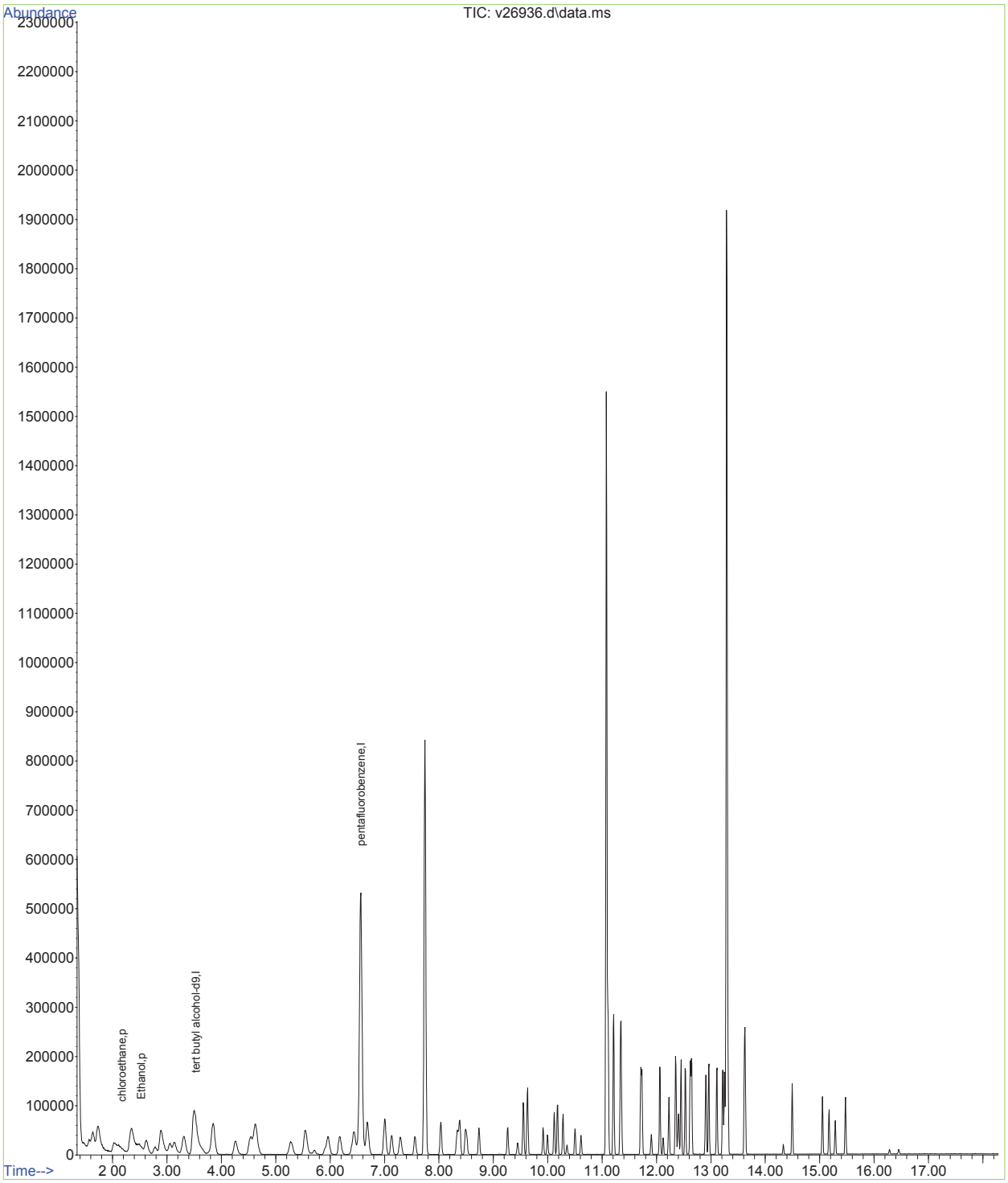
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.532	65	174193	500.00	ug/L	0.00
3) pentafluorobenzene	6.565	168	569450	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.523	45	24520	1003.38	ug/L	# 1
4) chloroethane	2.173	64	26754	5.77	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST MC28046

Data Path : O:\msv\1\databackup\v140107\
Data File : v26936.d
Acq On : 7 Jan 2014 2:16 pm
Operator : amym
Sample : ic1019-5
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 12 11:49:57 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26937.d
Acq On : 7 Jan 2014 2:42 pm
Operator : amym
Sample : ic1019-10
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

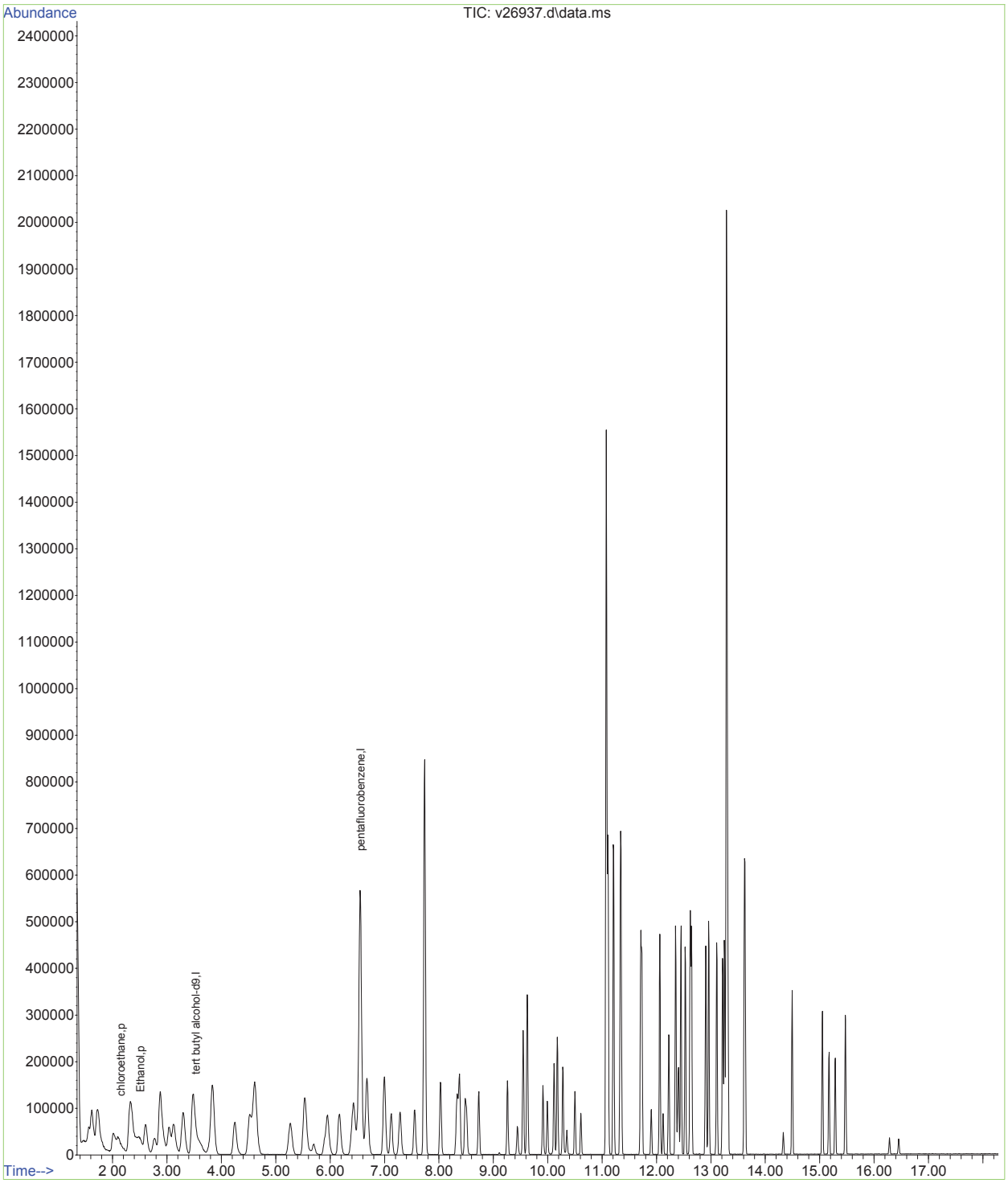
Quant Time: Oct 12 11:49:59 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.523	65	172384	500.00	ug/L	0.00
3) pentafluorobenzene	6.556	168	597997	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.509	45	48113	1989.48	ug/L	# 1
4) chloroethane	2.155	64	52409	10.77	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msv\1\databackup\v140107\
Data File : v26937.d
Acq On : 7 Jan 2014 2:42 pm
Operator : amym
Sample : ic1019-10
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 12 11:49:59 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Data Path : O:\msv\1\databackup\v140107\
Data File : v26938.d
Acq On : 7 Jan 2014 3:08 pm
Operator : amym
Sample : icc1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

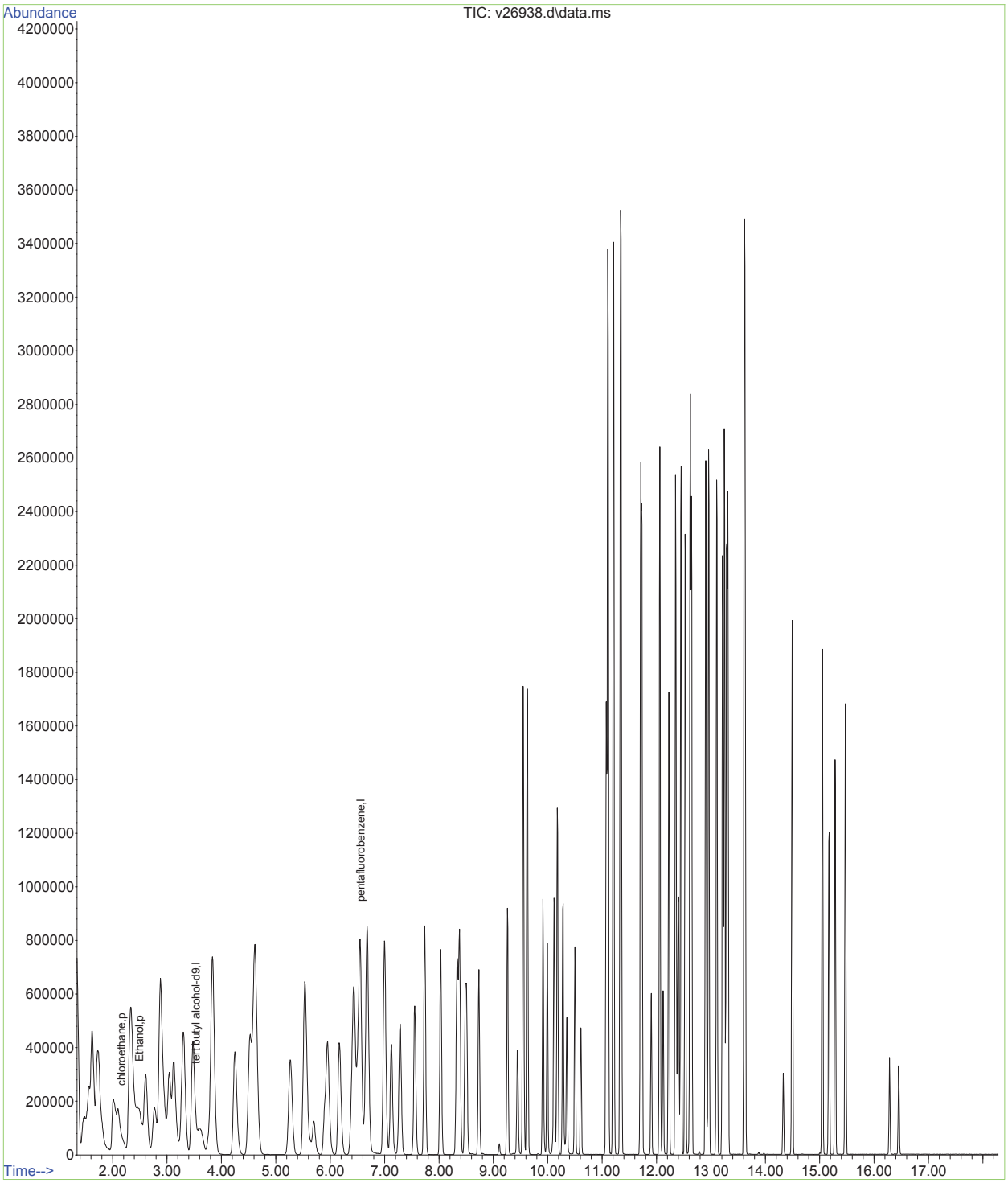
Quant Time: Oct 12 11:54:24 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.524	65	196490	500.00	ug/L	0.00
3) pentafluorobenzene	6.559	168	650576	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.489	45	137020m	4970.70	ug/L	
4) chloroethane	2.155	64	264750	50.00	ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

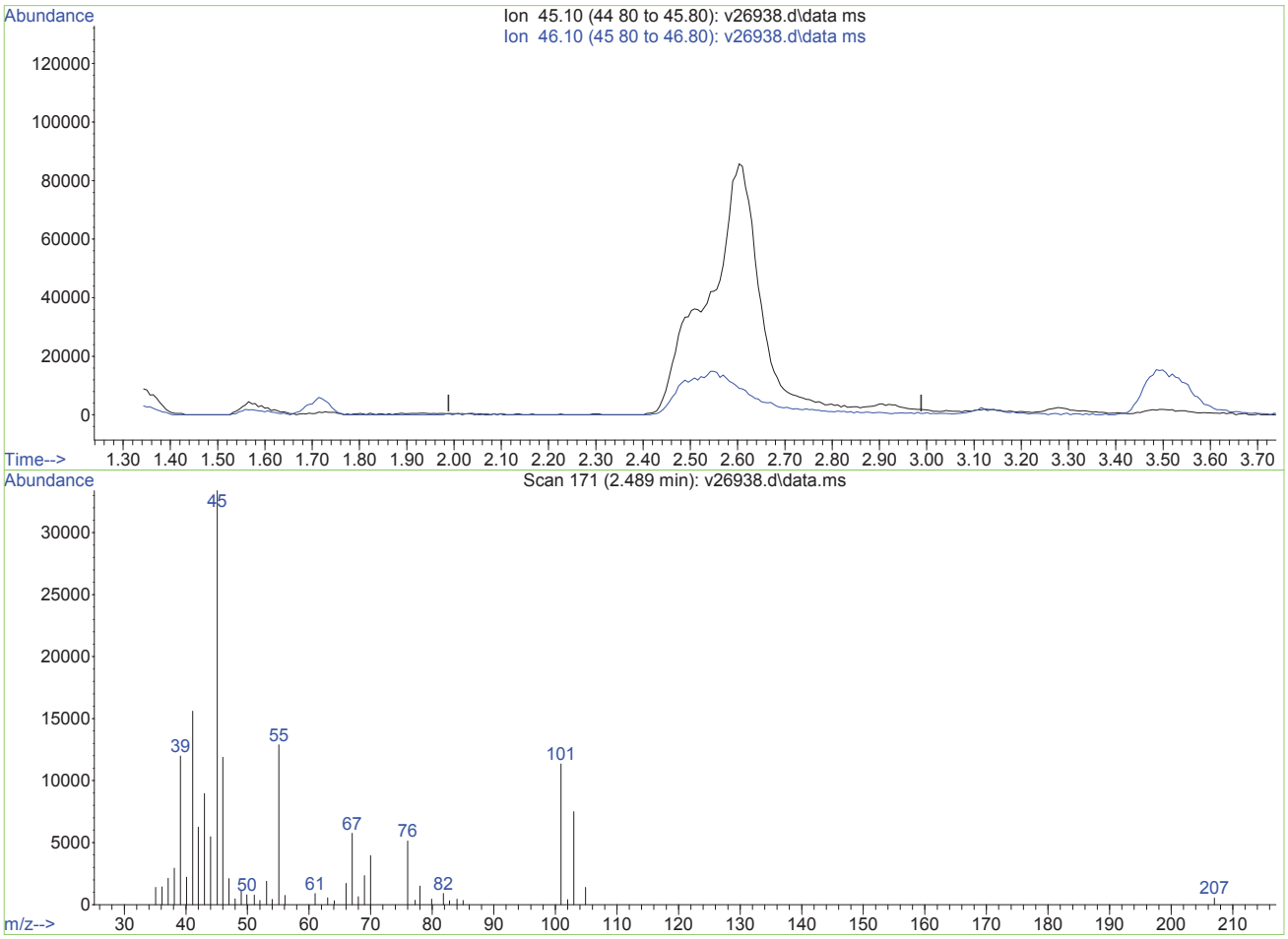
Data Path : O:\msv\1\databackup\v140107\
Data File : v26938.d
Acq On : 7 Jan 2014 3:08 pm
Operator : amym
Sample : icc1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 12 11:54:24 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Data Path : O:\msv\1\databackup\v140107\
Data File : v26938.d
Acq On : 7 Jan 2014 3:08 pm
Operator : amym
Sample : icc1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 12 11:50:01 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26938.d\data.ms

(2) Ethanol (p)

2.489min (-2.489) 0.00ug/L

response 0

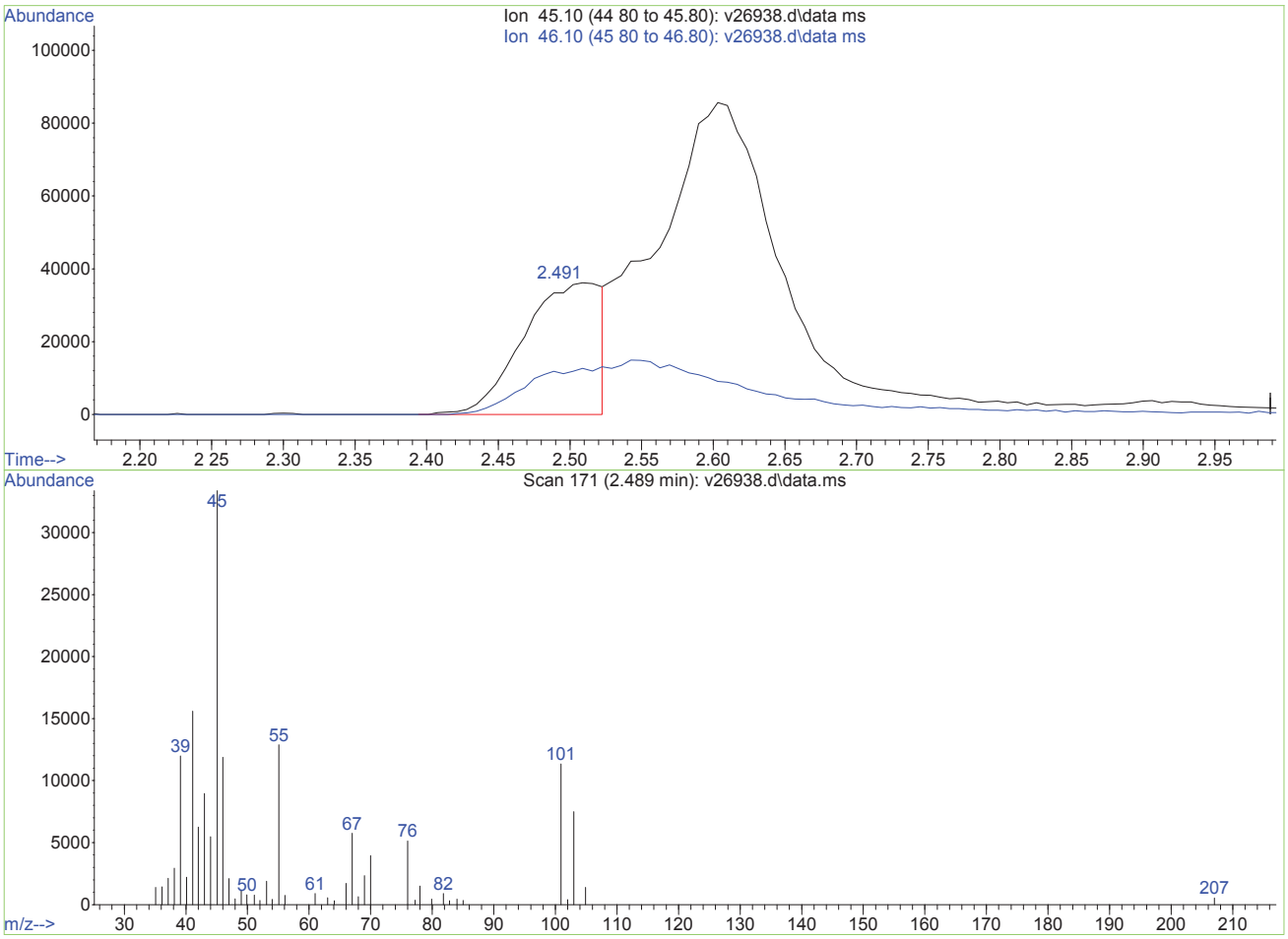
Ion	Exp%	Act%
45.10	100	0.00
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26938.D edits: Ethanol

SGS ACCUTEST MC28046

Data Path : O:\msv\1\databackup\v140107\
Data File : v26938.d
Acq On : 7 Jan 2014 3:08 pm
Operator : amym
Sample : icc1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 12 11:50:01 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26938.d\data.ms

(2) Ethanol (p)

2.489min (0.000) 4970.70ug/L m

response 137020

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26938.D edits: Ethanol

SGS ACCUTEST MC28046

Data Path : O:\msv\1\databackup\v140107\
Data File : v26939.d
Acq On : 7 Jan 2014 3:35 pm
Operator : amym
Sample : ic1019-100
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

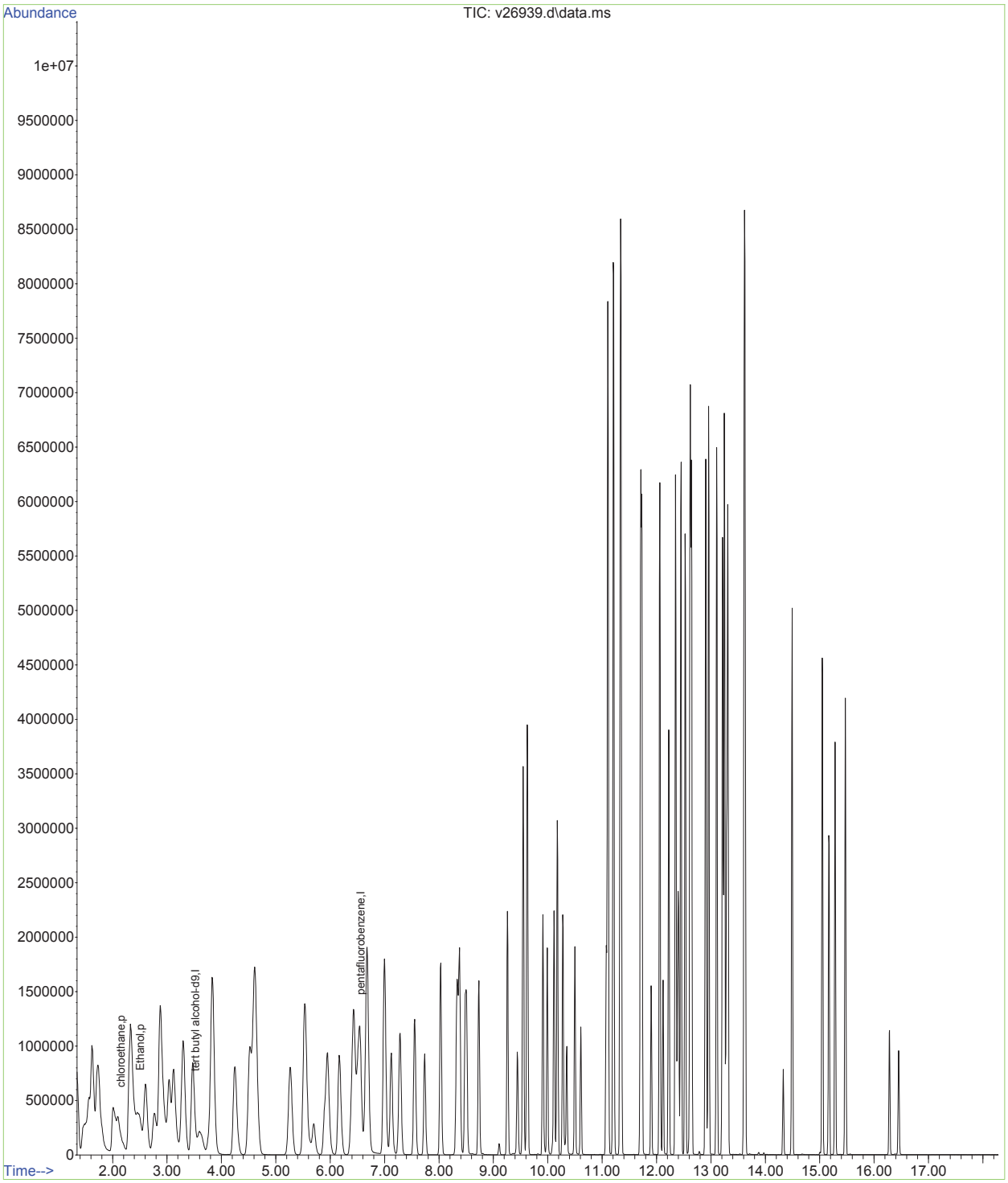
Quant Time: Oct 12 11:55:09 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.521	65	218199	500.00	ug/L	0.00
3) pentafluorobenzene	6.558	168	709327	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.502	45	415447m	13571.79	ug/L	
4) chloroethane	2.151	64	566729	98.17	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msv\1\databackup\v140107\
Data File : v26939.d
Acq On : 7 Jan 2014 3:35 pm
Operator : amym
Sample : ic1019-100
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 12 11:55:09 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

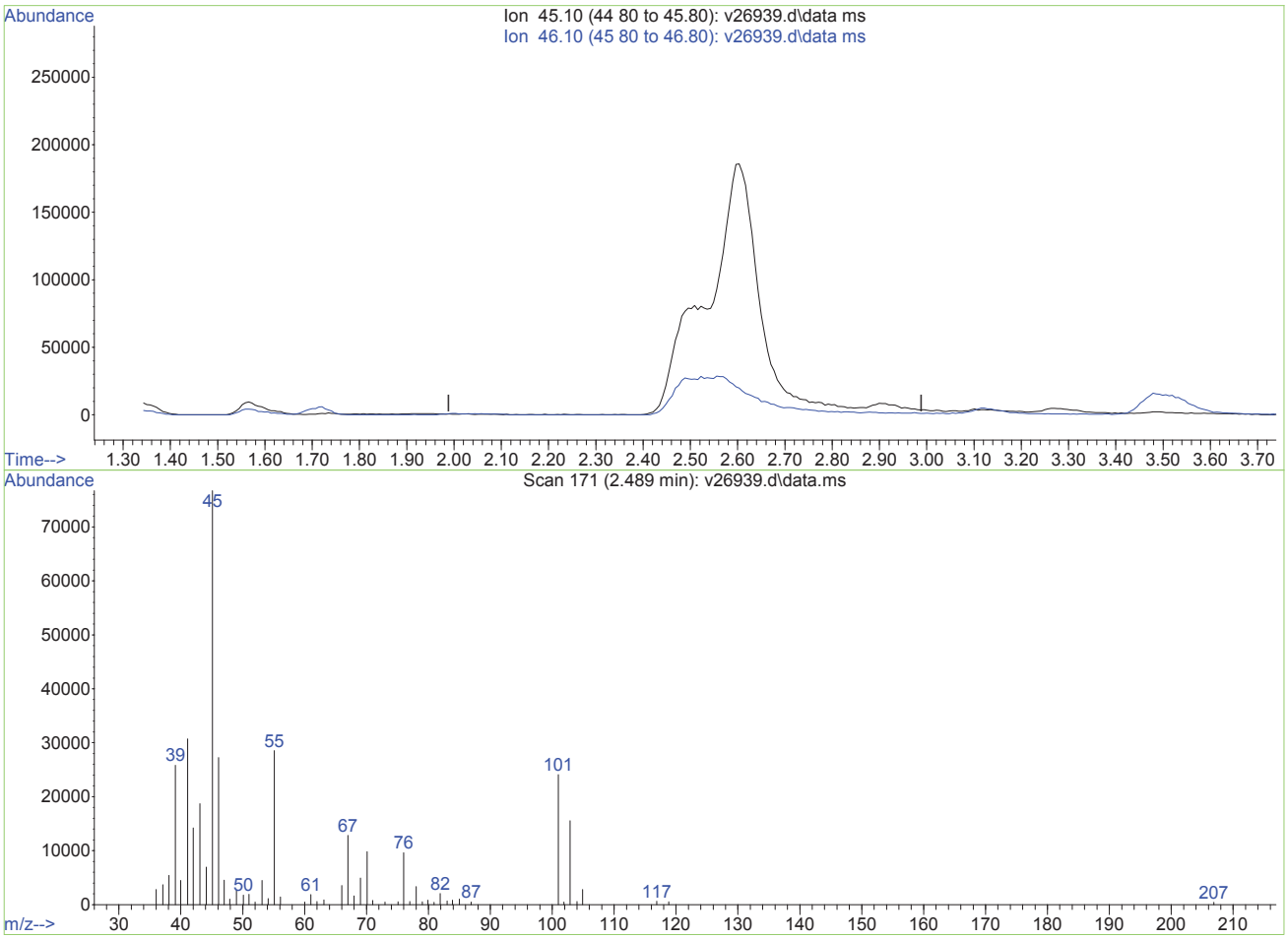


SGS ACCUTEST MC28046

Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26939.d
Acq On : 7 Jan 2014 3:35 pm
Operator : amym
Sample : ic1019-100
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 12 11:50:03 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26939.d\data.ms

(2) Ethanol (p)

2.489min (-2.489) 0.00ug/L

response 0

Ion	Exp%	Act%
45.10	100	0.00
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

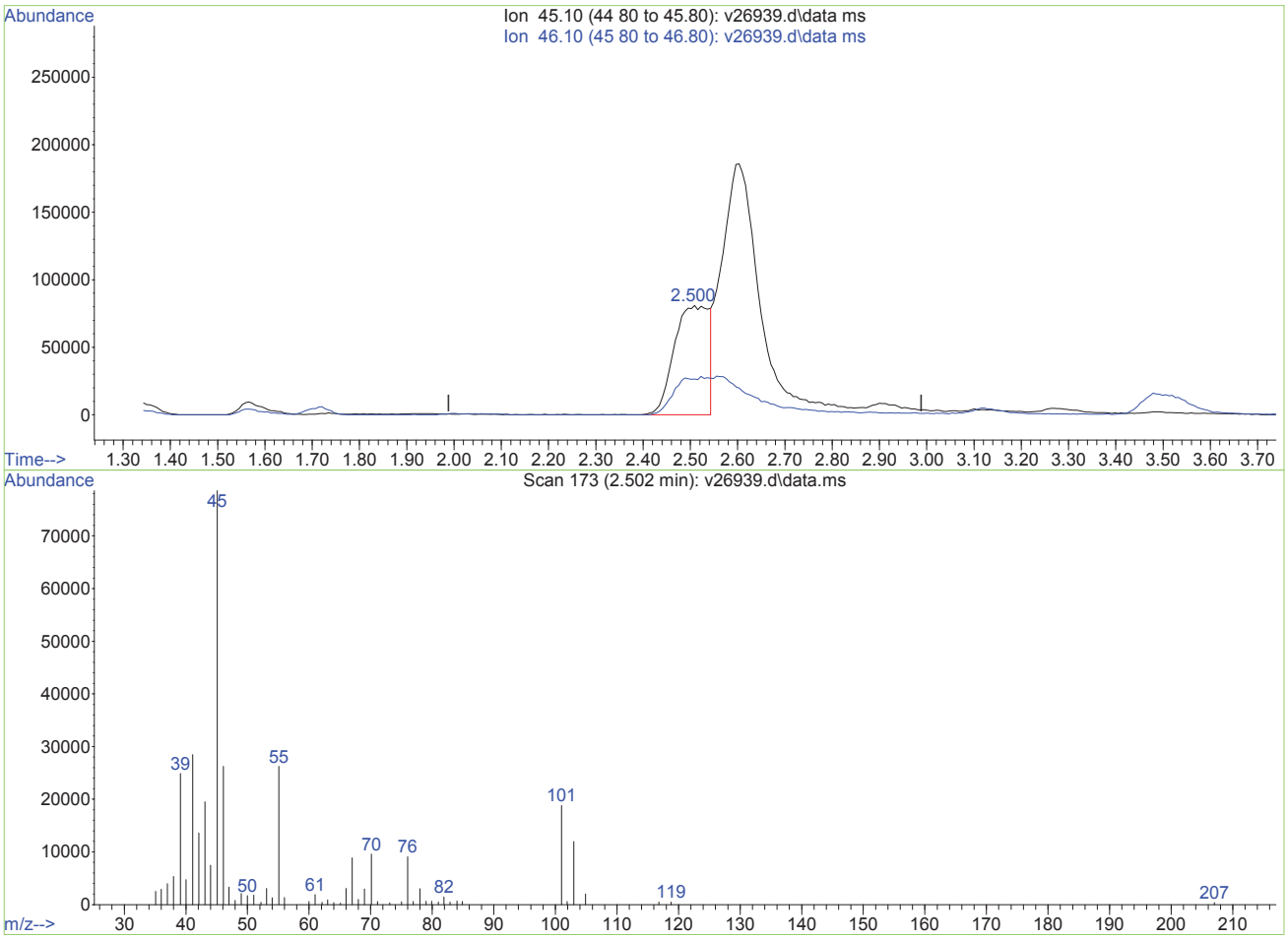
V26939.D edits: Ethanol

SGS ACCUTEST MC28046

Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26939.d
Acq On : 7 Jan 2014 3:35 pm
Operator : amym
Sample : ic1019-100
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 12 11:50:03 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26939.d\data.ms

(2) Ethanol (p)

2.502min (+0.013) 13571.79ug/L m

response 415447

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26939.D edits: Ethanol

SGS ACCUTEST MC28046

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

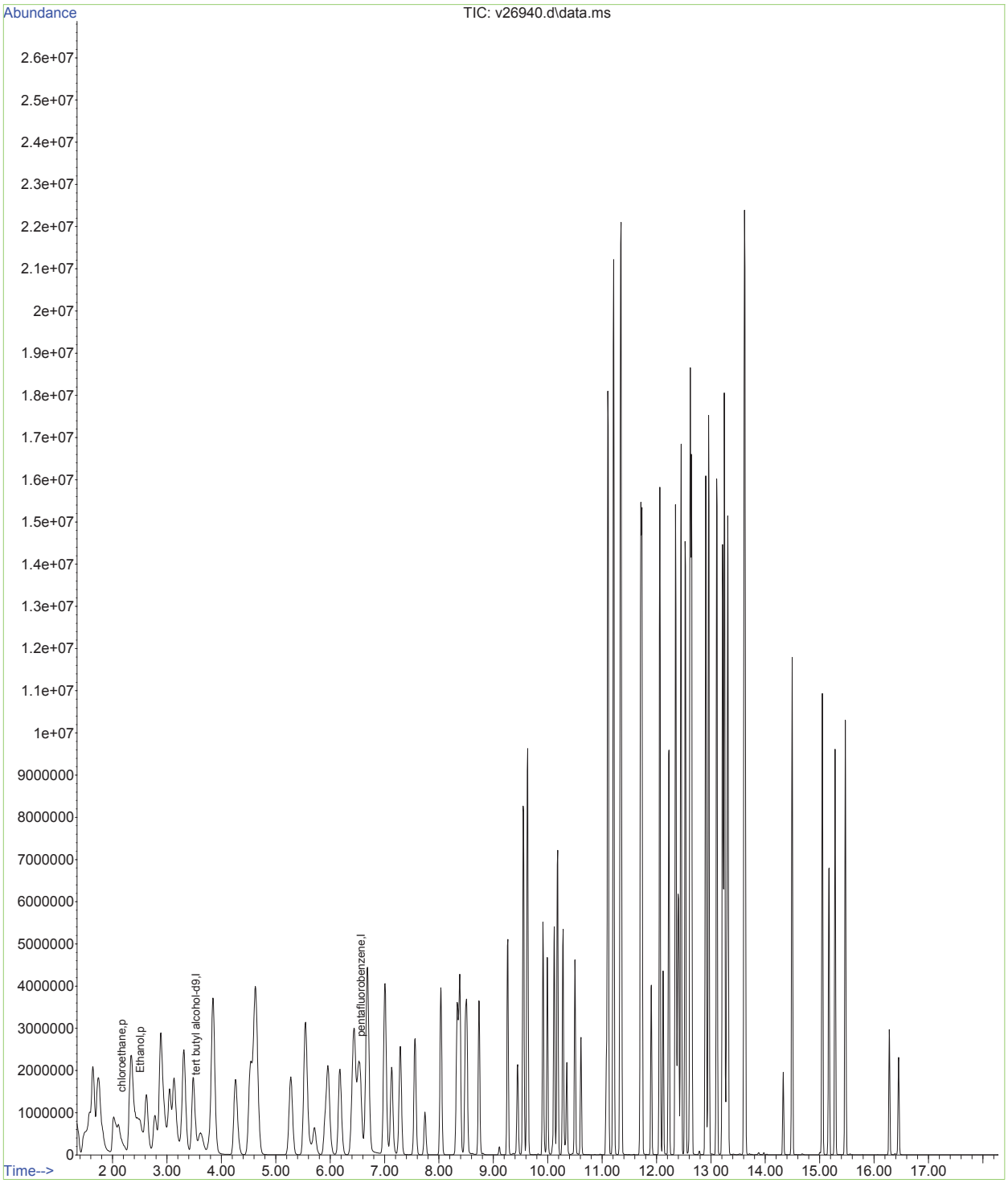
Quant Time: Oct 12 11:56:38 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.526	65	248311m	500.00	ug/L	0.00
3) pentafluorobenzene	6.565	168	827373	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.502	45	690608m	19824.86	ug/L	
4) chloroethane	2.165	64	1217177m	180.75	ug/L	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

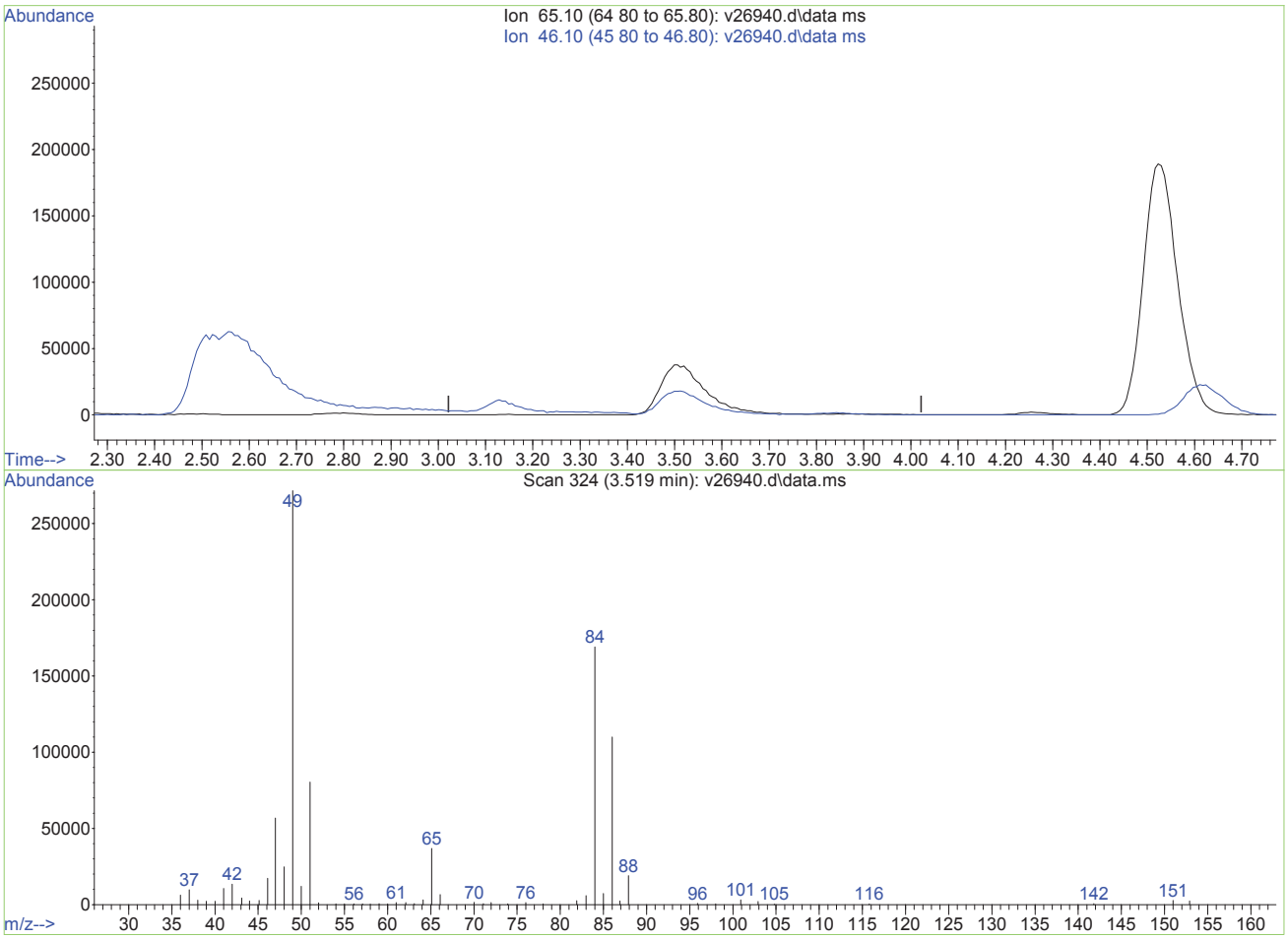
Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:56:38 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:50:05 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26940.d\data.ms

(1) tert butyl alcohol-d9 (I)

3.522min (-3.522) 0.00ug/L

response 0

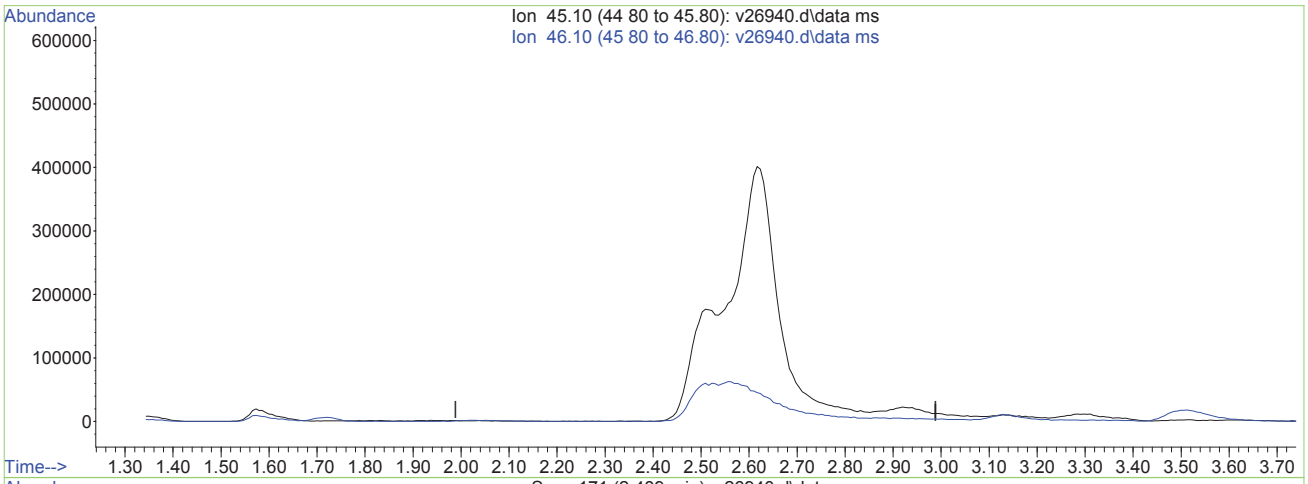
Ion	Exp%	Act%
65.10	100	0.00
46.10	54.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

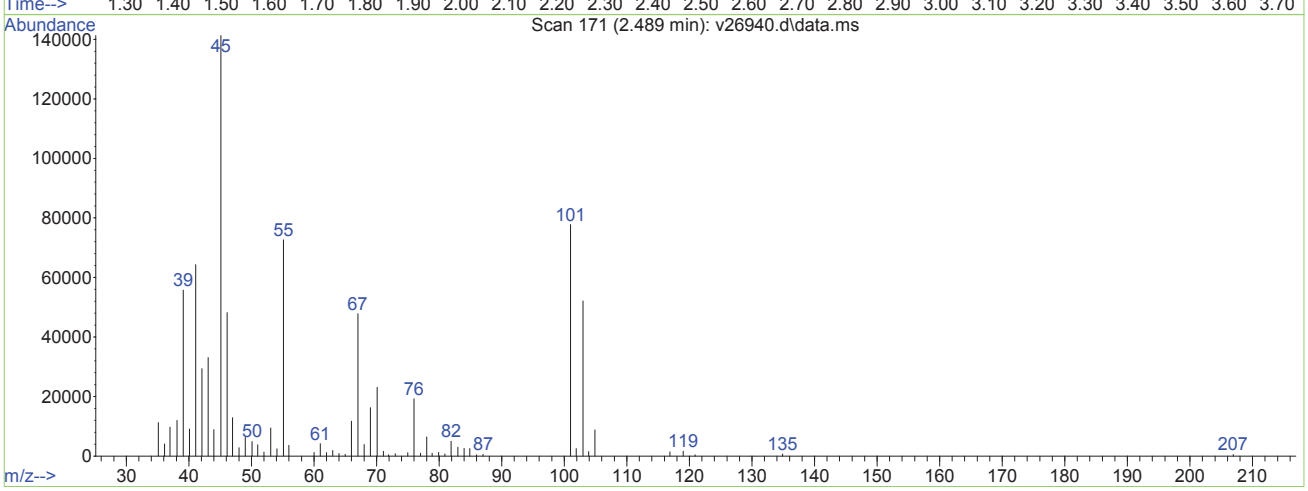
V26940.D edits: tert butyl alcohol-d9

Quantitation Report (Qedit)

```
Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On    :  7 Jan 2014   4:02 pm
Operator  : amym
Sample    : ic1019-200
Misc      : MS30921,MSV1019,,,,5,1
ALS Vial  : 15   Sample Multiplier: 1

Quant Time: Oct 12 11:50:05 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title  : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration
```





TIC: v26940.d\data.ms

(2) Ethanol (p)

2.489min (-2.489) 0.00ug/L

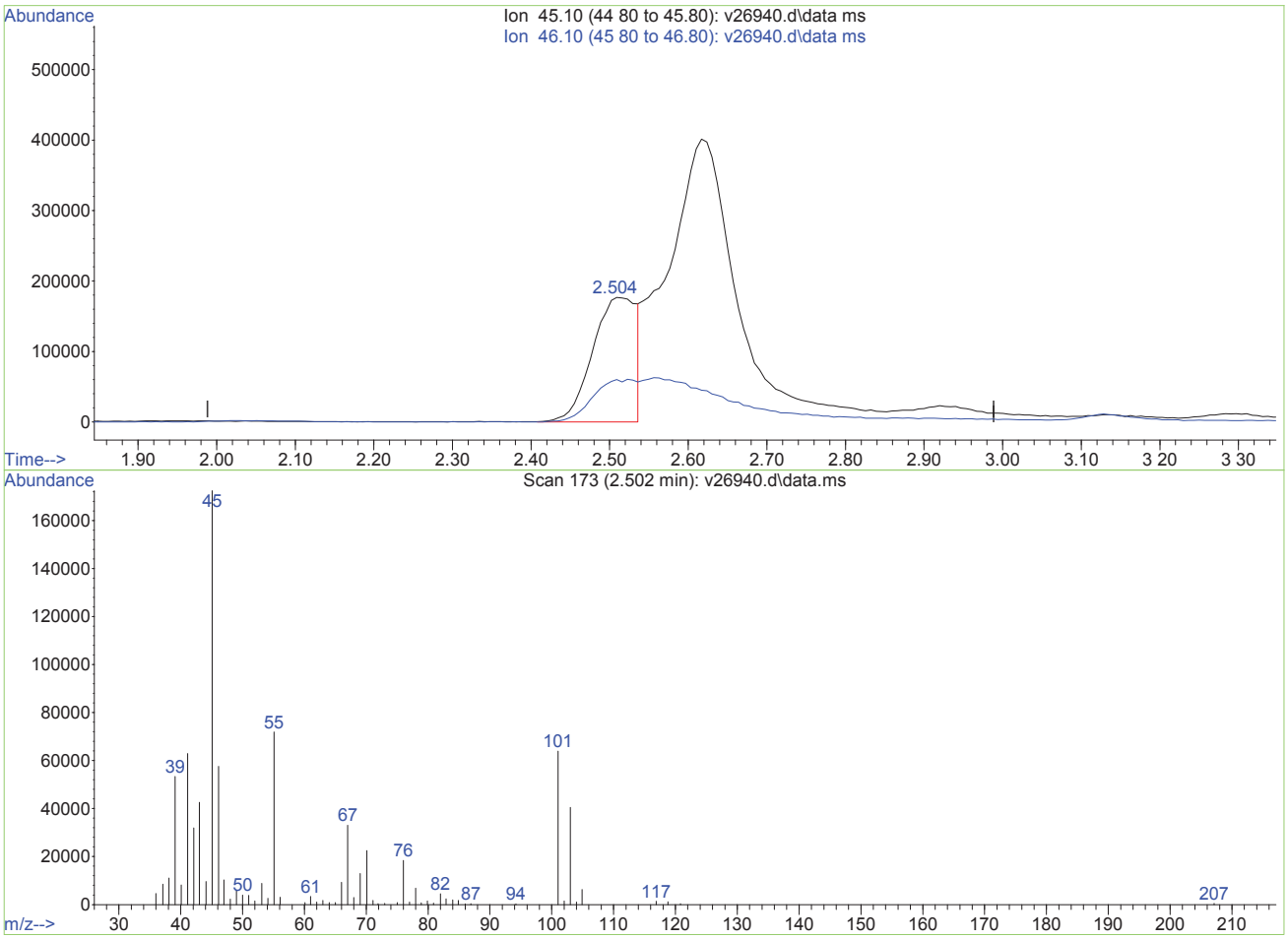
response 0

Ion	Exp%	Act%
45.10	100	0.00
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:50:05 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26940.d\data.ms

(2) Ethanol (p)

2.502min (+0.014) 19824.86ug/L m

response 690608

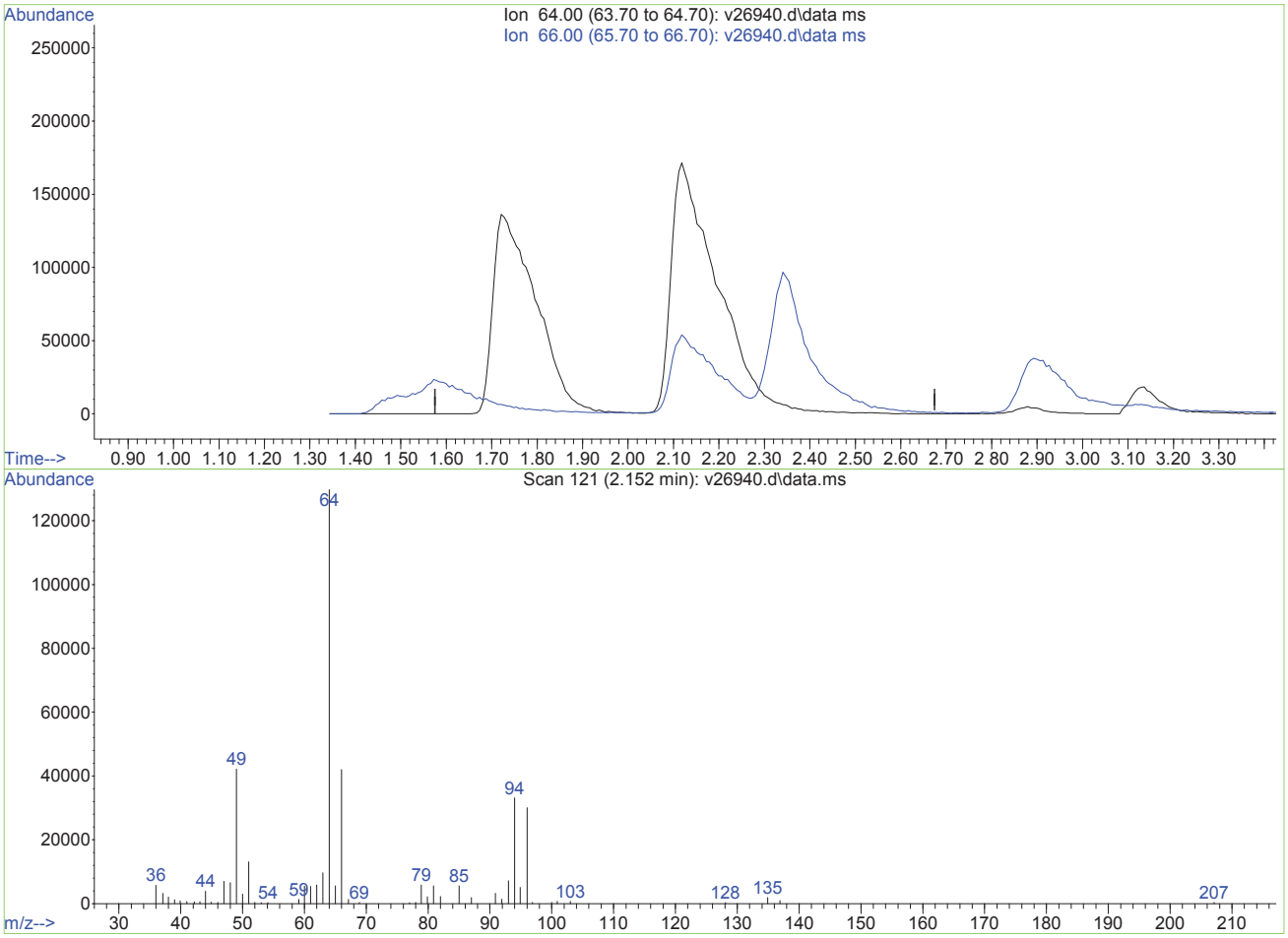
Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26940.D edits: Ethanol

Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:50:05 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26940.d\data.ms

(4) chloroethane (p)

2.155min (-2.155) 0.00ug/L

response 0

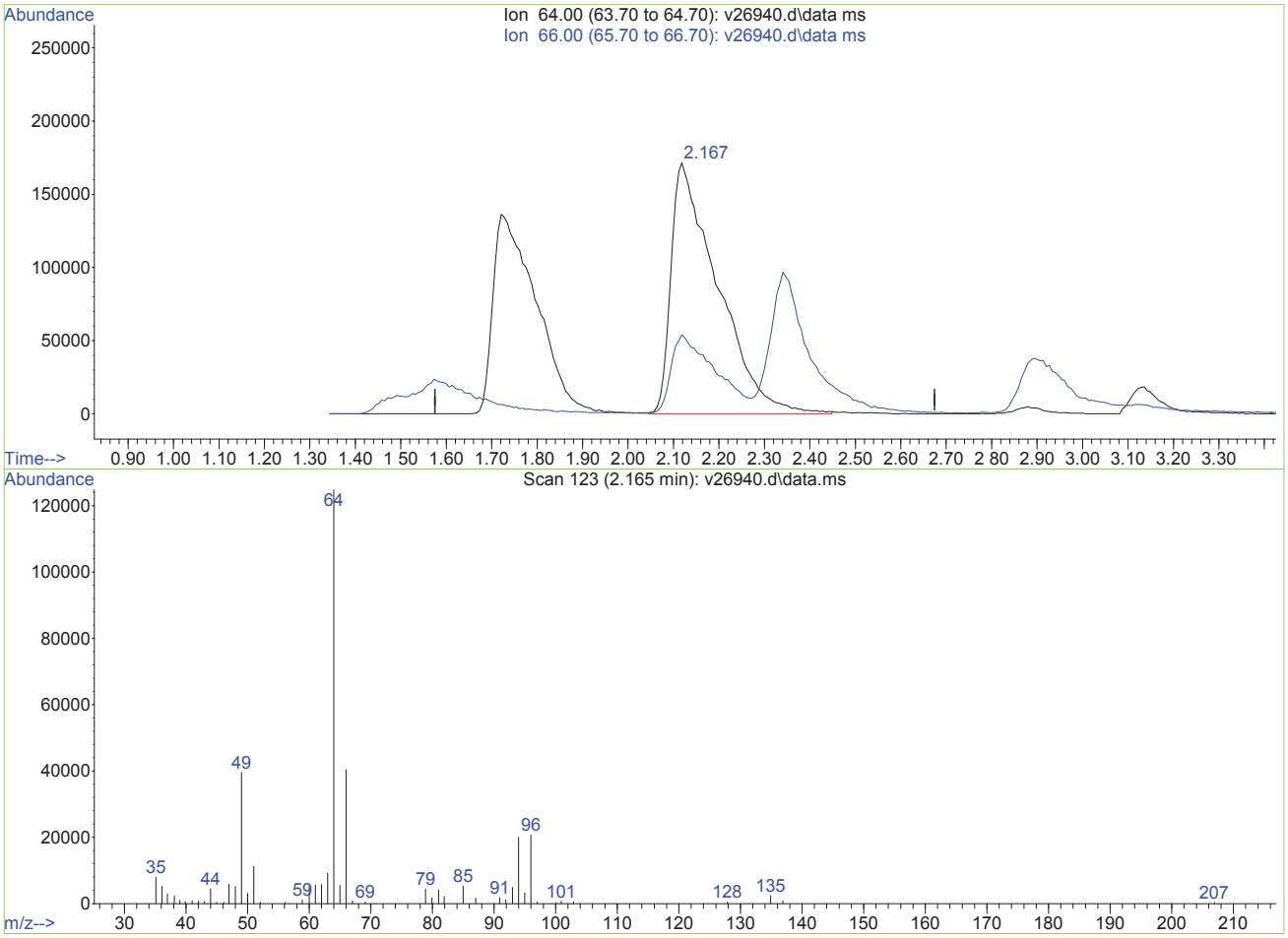
Ion	Exp%	Act%
64.00	100	0.00
66.00	34.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26940.D edits: chloroethane

Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:50:05 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26940.d\data.ms

(4) chloroethane (p)

2.165min (+0.010) 180.75ug/L m

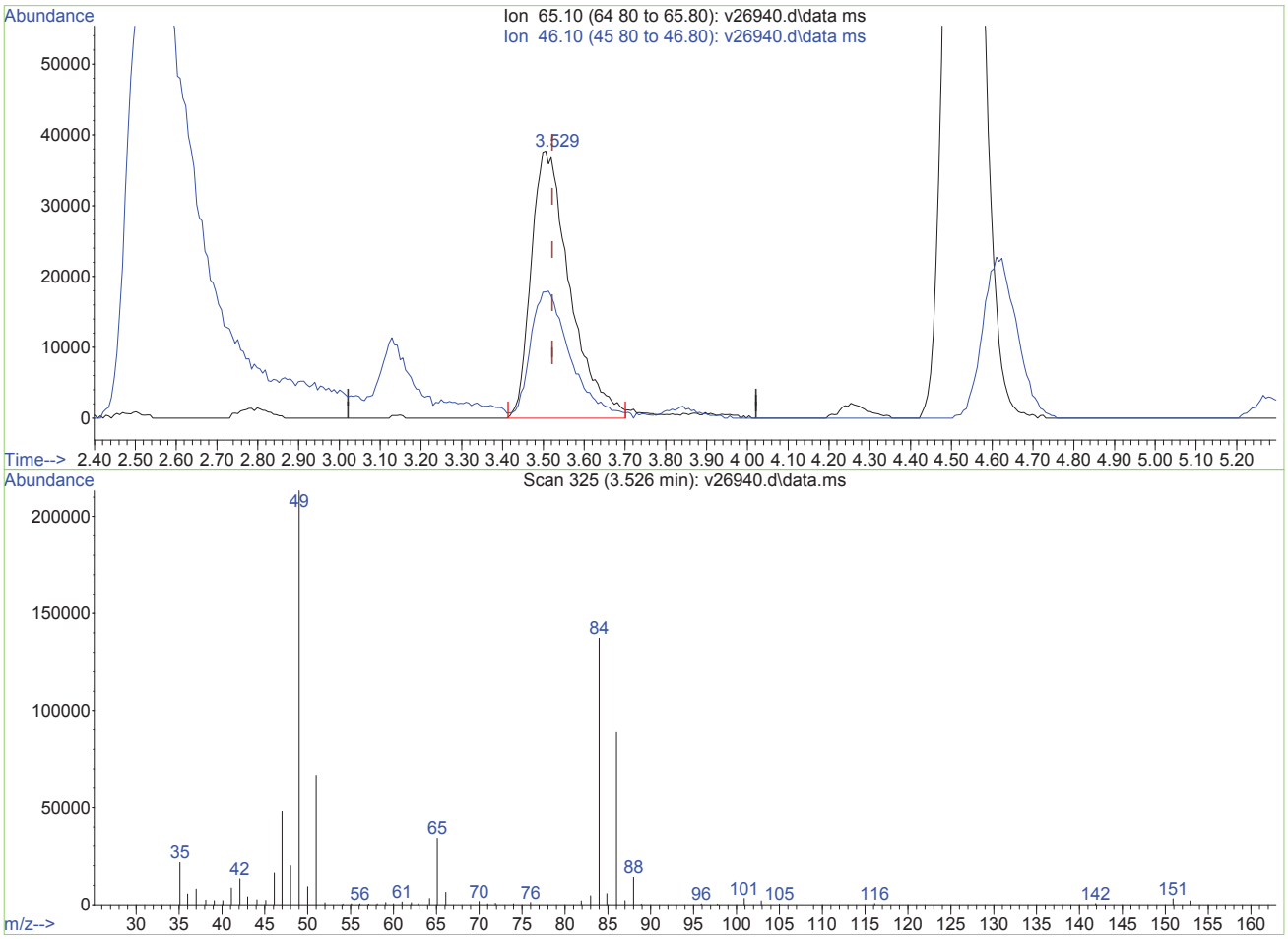
response 1217177

Ion	Exp%	Act%
64.00	100	100
66.00	34.60	32.37
0.00	0.00	0.00
0.00	0.00	0.00

V26940.D edits: chloroethane

Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:56:38 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26940.d\data.ms

(1) tert butyl alcohol-d9 (I)

3.526min (+0.004) 500.00ug/L m

response 248311

Ion	Exp%	Act%
65.10	100	100
46.10	54.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26940.D edits: tert butyl alcohol-d9

Data Path : O:\msv\1\databackup\v140107\
Data File : v26942.d
Acq On : 7 Jan 2014 5:47 pm
Operator : amym
Sample : ic1019-400
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

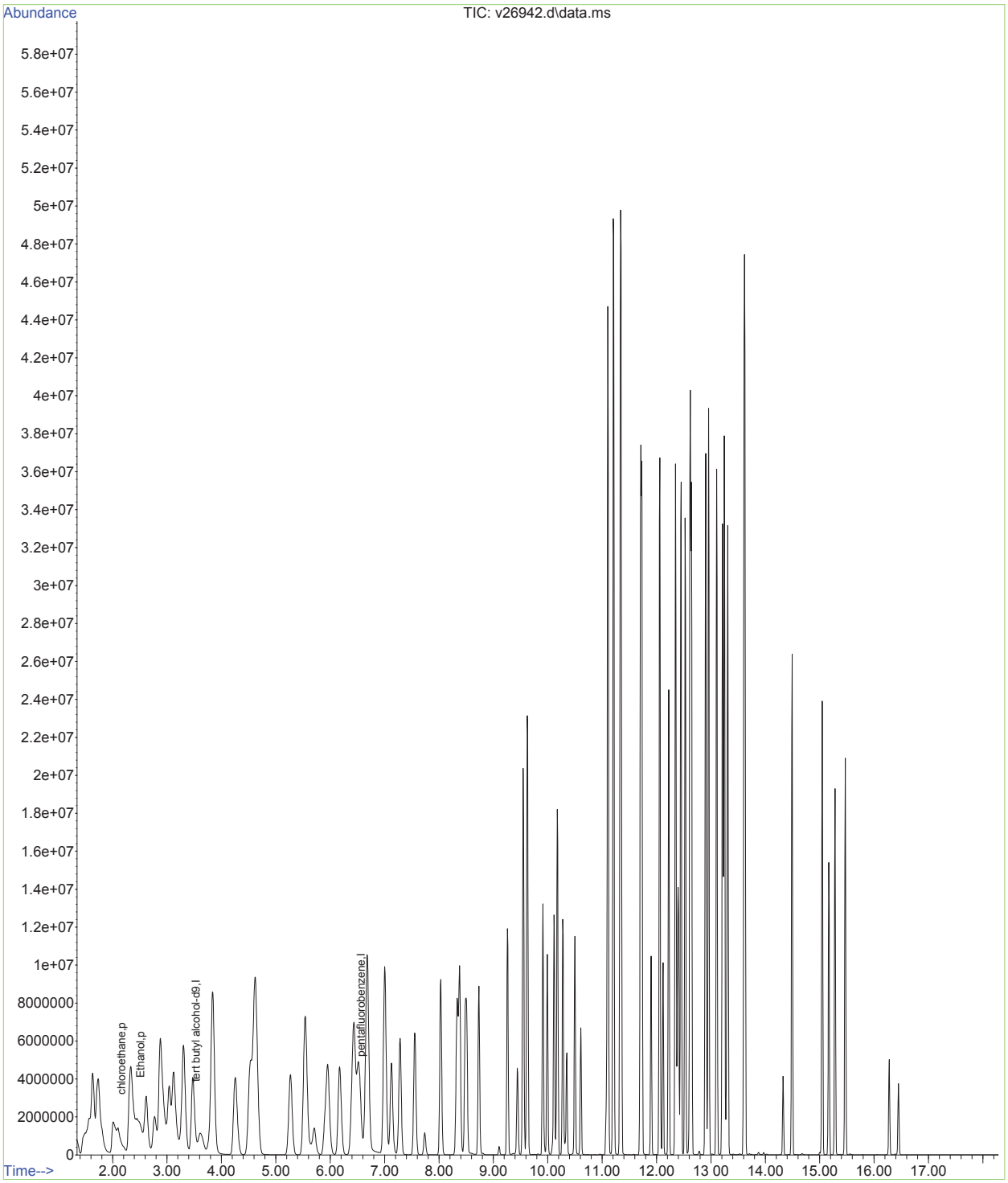
Quant Time: Oct 12 11:57:12 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.528	65	280929	500.00	ug/L	0.00
3) pentafluorobenzene	6.561	168	994052	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.509	45	1732790m	43966.69	ug/L	
4) chloroethane	2.160	64	2471921	305.53	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msv\1\databackup\v140107\
Data File : v26942.d
Acq On : 7 Jan 2014 5:47 pm
Operator : amym
Sample : ic1019-400
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

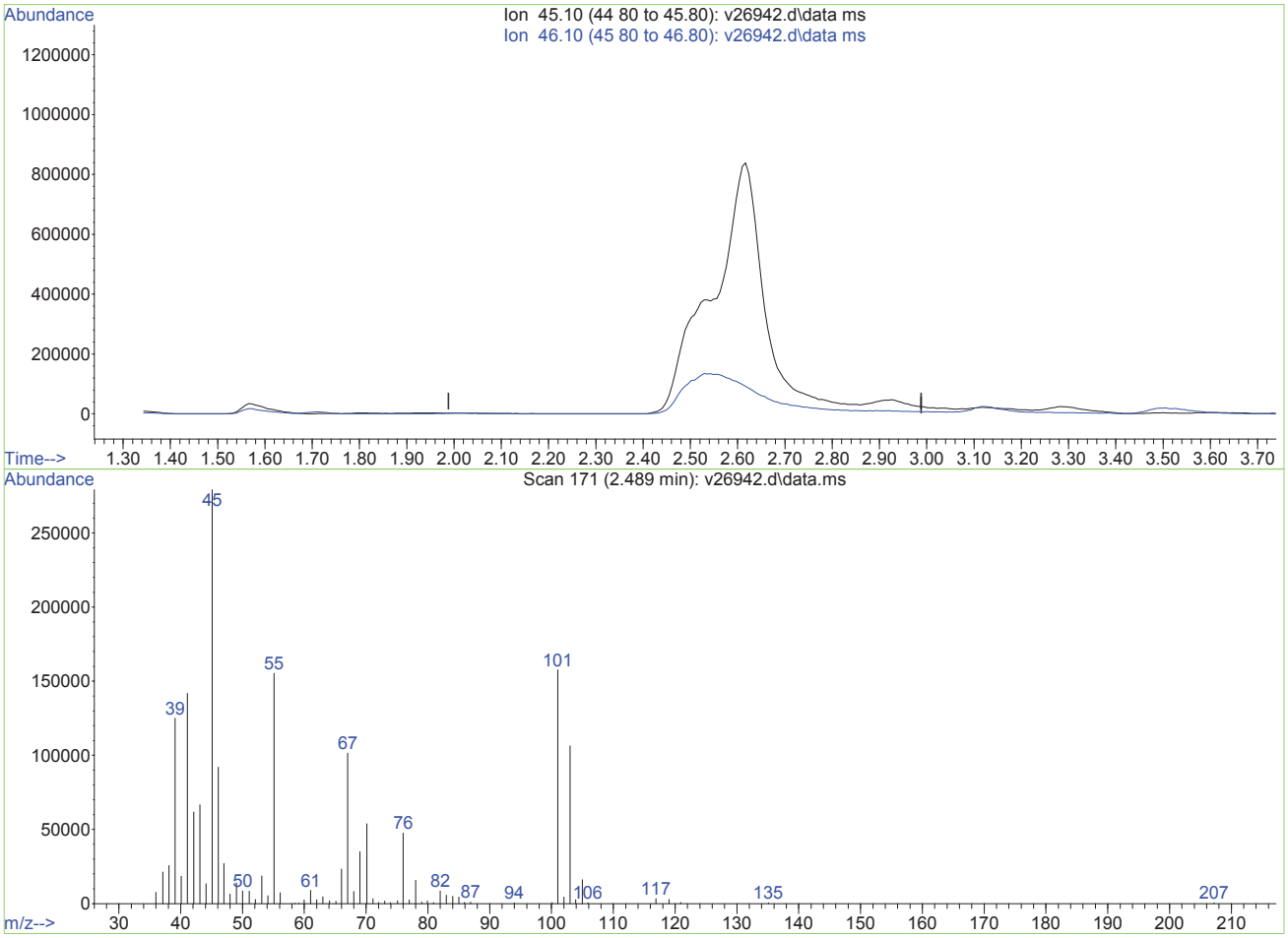
Quant Time: Oct 12 11:57:12 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26942.d
Acq On : 7 Jan 2014 5:47 pm
Operator : amym
Sample : ic1019-400
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 12 11:50:07 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26942.d\data.ms

(2) Ethanol (p)

2.489min (-2.489) 0.00ug/L

response 0

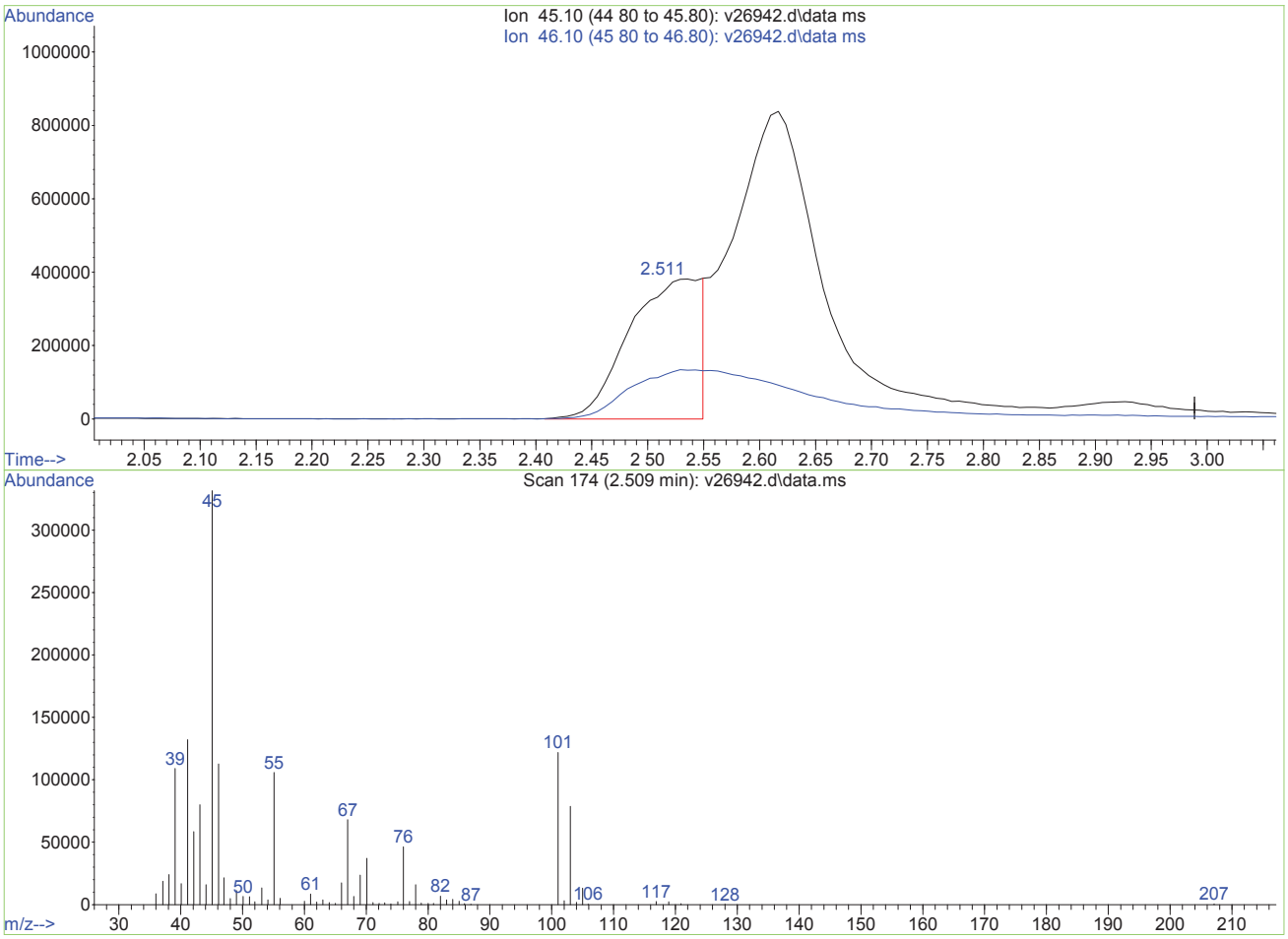
Ion	Exp%	Act%
45.10	100	0.00
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26942.D edits: Ethanol

SGS ACCUTEST MC28046

Data Path : O:\msv\1\databackup\v140107\
Data File : v26942.d
Acq On : 7 Jan 2014 5:47 pm
Operator : amym
Sample : ic1019-400
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 12 11:50:07 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26942.d\data.ms

(2) Ethanol (p)

2.509min (+0.020) 43966.69ug/L m

response 1732790

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26942.D edits: Ethanol

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26944.d
Acq On : 7 Jan 2014 7:05 pm
Operator : amym
Sample : icv1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

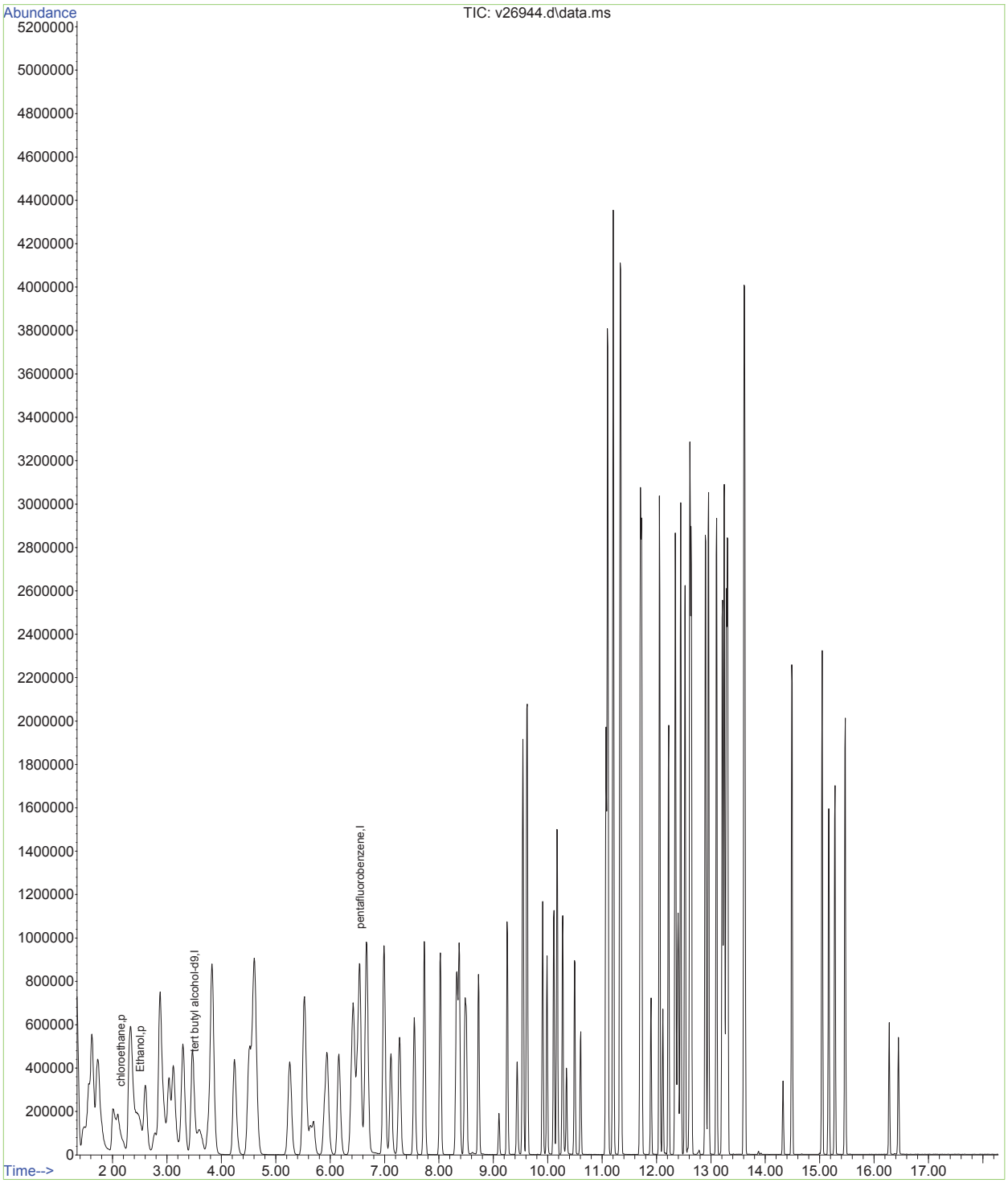
Quant Time: Oct 12 12:04:13 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.508	65	215524	500.00	ug/L	-0.01
3) pentafluorobenzene	6.550	168	735695	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.502	45	219095m	6281.66	ug/L	
4) chloroethane	2.149	64	314843	55.64	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

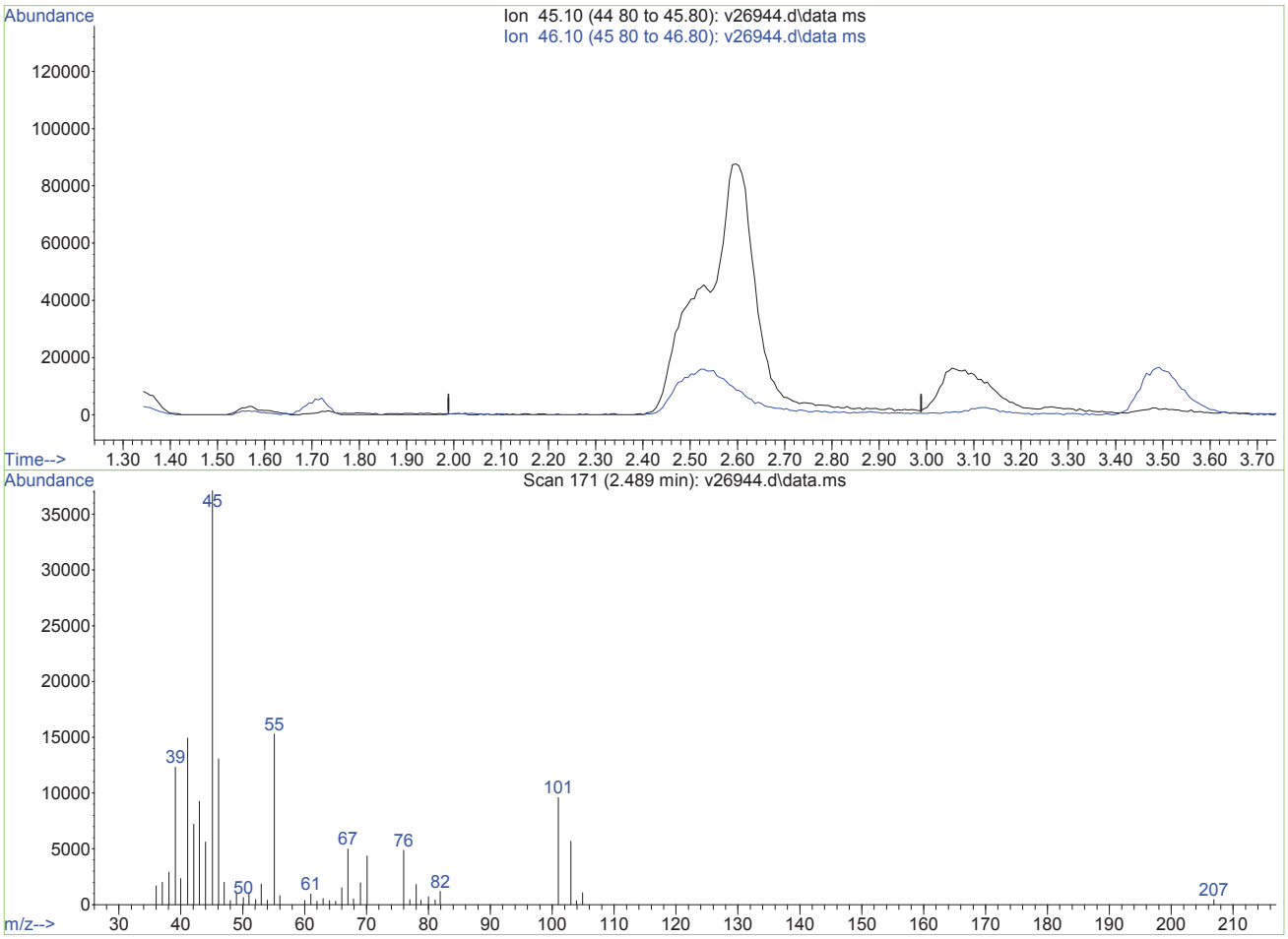
Data Path : O:\msv\1\databackup\v140107\
Data File : v26944.d
Acq On : 7 Jan 2014 7:05 pm
Operator : amym
Sample : icv1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 12 12:04:13 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Data Path : O:\msv\1\databackup\v140107\
Data File : v26944.d
Acq On : 7 Jan 2014 7:05 pm
Operator : amym
Sample : icv1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 12 12:03:55 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



TIC: v26944.d\data.ms

(2) Ethanol (p)

2.489min (-2.489) 0.00ug/L

response 0

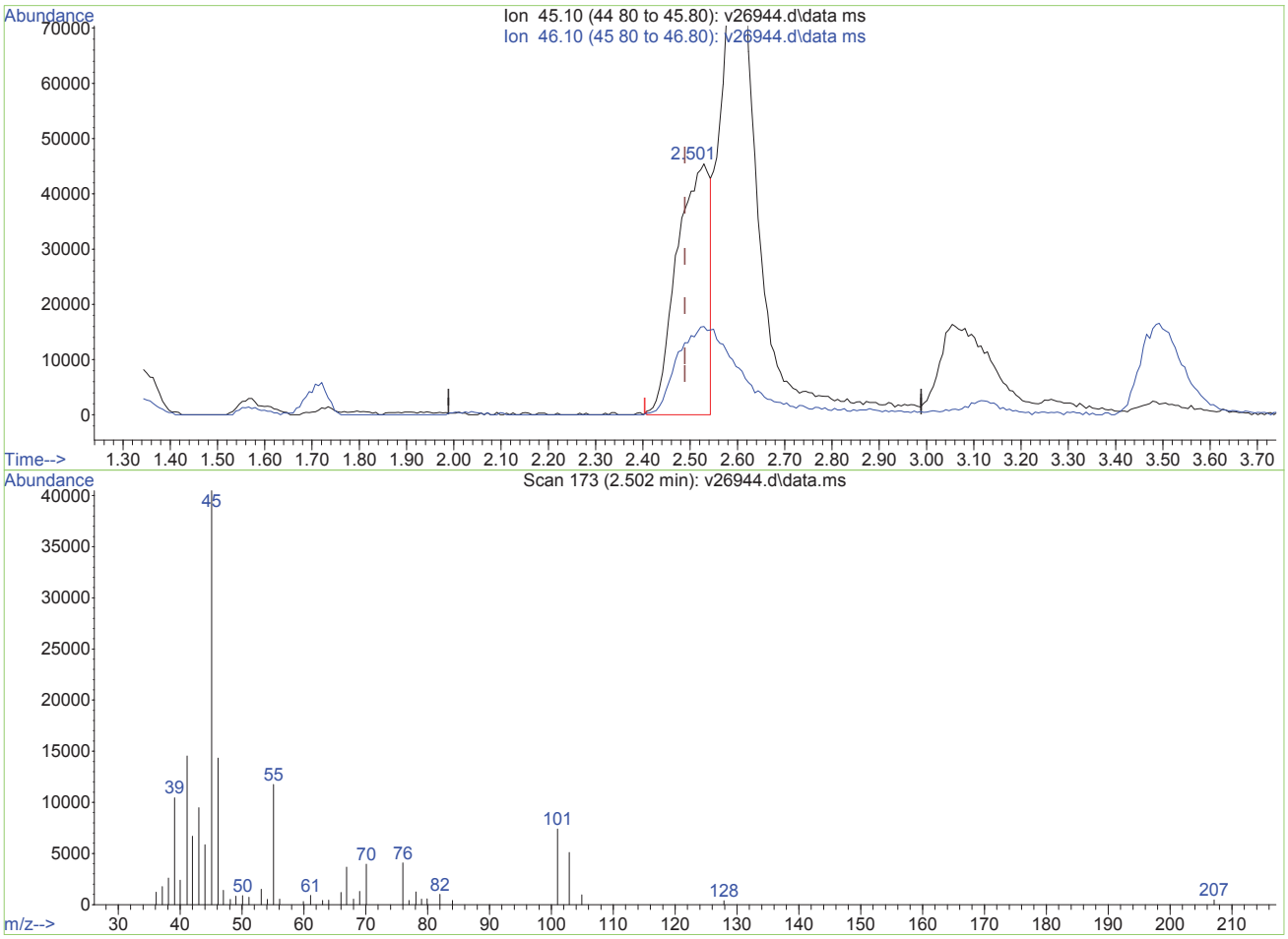
Ion	Exp%	Act%
45.10	100	0.00
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26944.D edits: Ethanol

SGS ACCUTEST MC28046

Data Path : O:\msv\1\databackup\v140107\
Data File : v26944.d
Acq On : 7 Jan 2014 7:05 pm
Operator : amym
Sample : icv1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 12 12:03:55 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



TIC: v26944.d\data.ms

(2) Ethanol (p)

2.502min (+0.013) 6281.66ug/L m

response 219095

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26944.D edits: Ethanol

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140210\
Data File : v27750.d
Acq On : 10 Feb 2014 9:10 am
Operator : amym
Sample : cc1019-50
Misc : MS31098,MSV1046,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 20 08:47:13 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

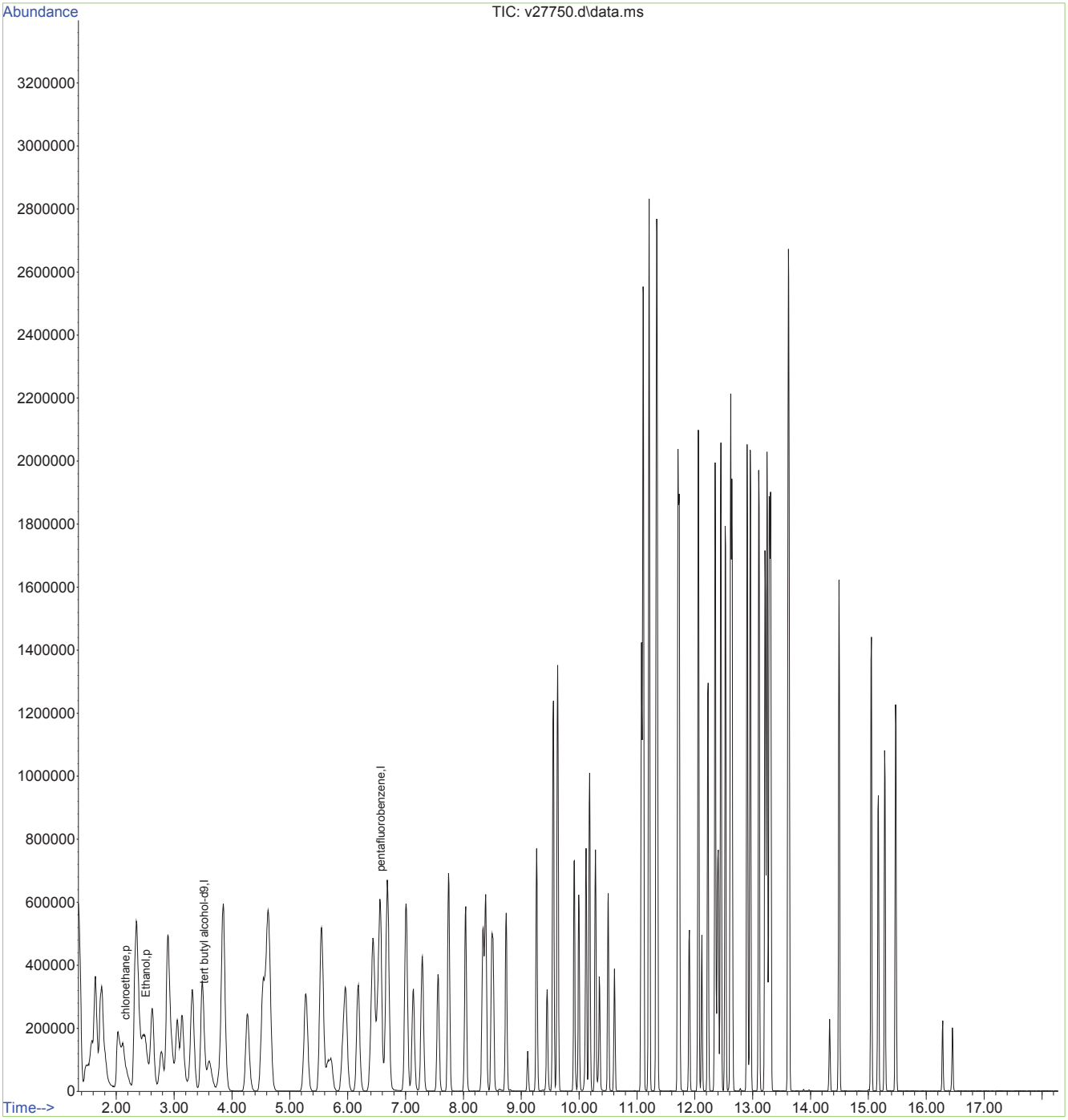
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.517	65	174408	500.00	ug/L	0.00
3) pentafluorobenzene	6.568	168	534127	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.509	45	253923m	9203.60	ug/L	
4) chloroethane	2.162	64	237597	57.87	ug/L	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140210\
Data File : v27750.d
Acq On : 10 Feb 2014 9:10 am
Operator : amym
Sample : cc1019-50
Misc : MS31098,MSV1046,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 20 08:47:13 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

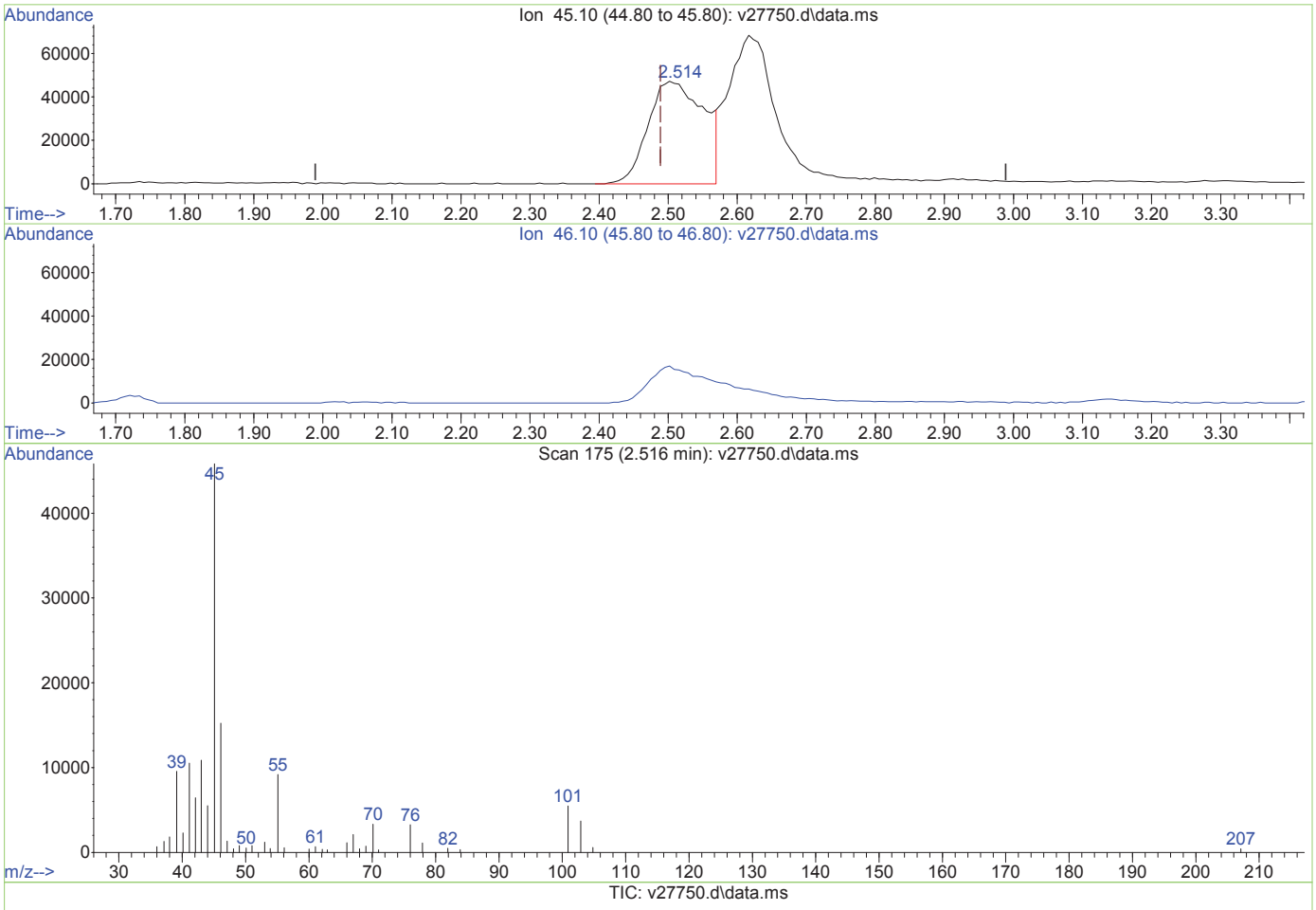


SGS ACCUTEST MC28046

Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140210\
Data File : v27750.d
Acq On : 10 Feb 2014 9:10 am
Operator : amym
Sample : cc1019-50
Misc : MS31098,MSV1046,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 20 08:46:07 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



TIC: v27750.d\data.ms

(2) Ethanol (p)

2.514min (+0.025) 9729.19ug/L

response 267706

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

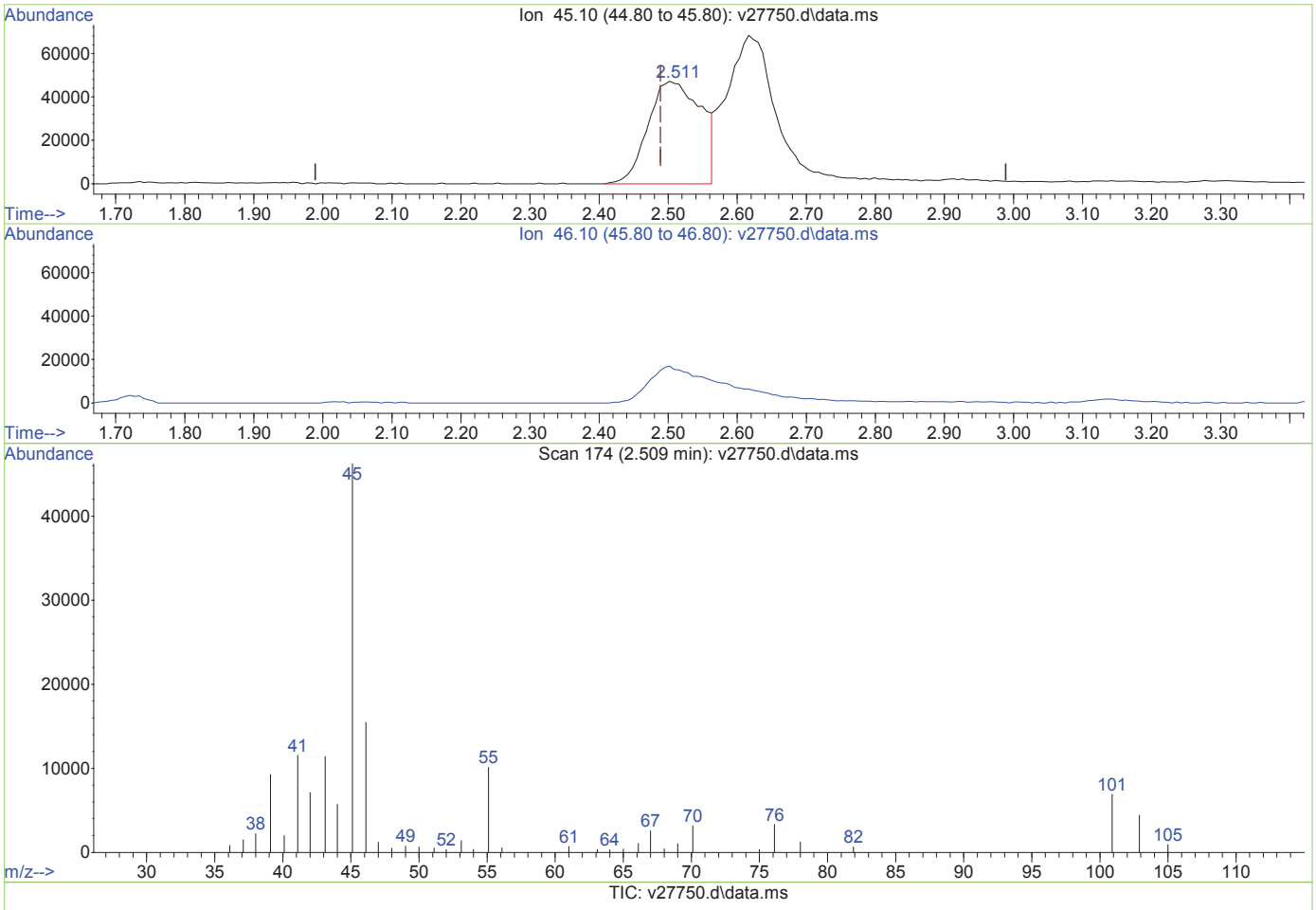
V27750.D edits: Ethanol

SGS ACCUTEST MC28046

Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140210\
Data File : v27750.d
Acq On : 10 Feb 2014 9:10 am
Operator : amym
Sample : cc1019-50
Misc : MS31098,MSV1046,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 20 08:46:07 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



TIC: v27750.d\data.ms

(2) Ethanol (p)

2.509min (+0.020) 9203.60ug/L m

response 253923

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V27750.D edits: Ethanol

SGS ACCUTEST MC28046

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140210\
Data File : v27756.d
Acq On : 10 Feb 2014 11:49 am
Operator : amym
Sample : mc28046-2
Misc : MS31103,MSV1046,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 20 08:50:57 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.512	65	124133	500.00	ug/L	0.00
3) pentafluorobenzene	6.563	168	430203	50.00	ug/L	0.00

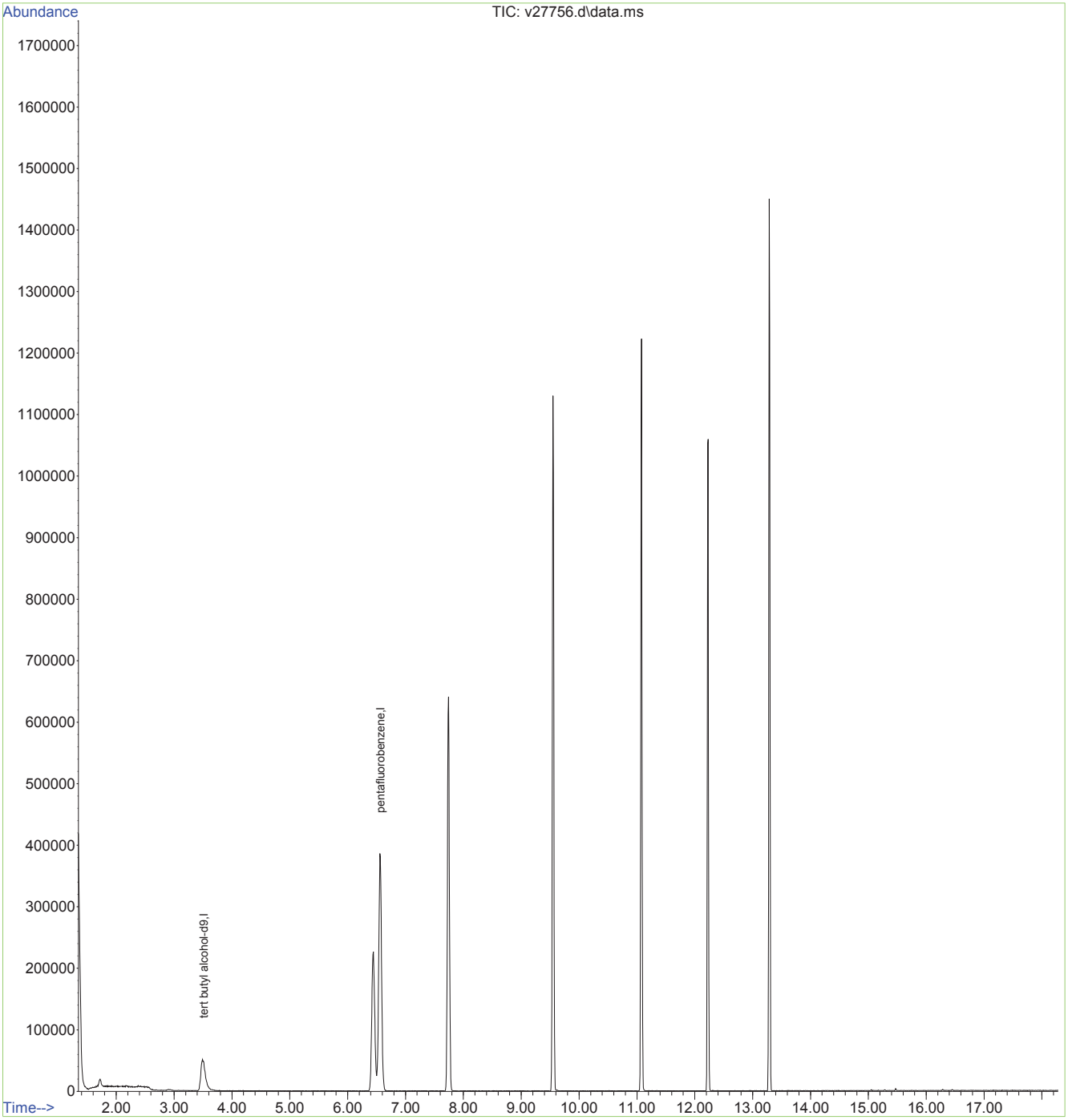
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140210\
Data File : v27756.d
Acq On : 10 Feb 2014 11:49 am
Operator : amym
Sample : mc28046-2
Misc : MS31103,MSV1046,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 20 08:50:57 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140210\
Data File : v27774.d
Acq On : 10 Feb 2014 7:45 pm
Operator : amym
Sample : mc28046-1
Misc : MS31103,MSV1046,,,,5,1
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Nov 20 08:56:44 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.505	65	149985	500.00	ug/L	-0.02
3) pentafluorobenzene	6.551	168	428109	50.00	ug/L	0.00

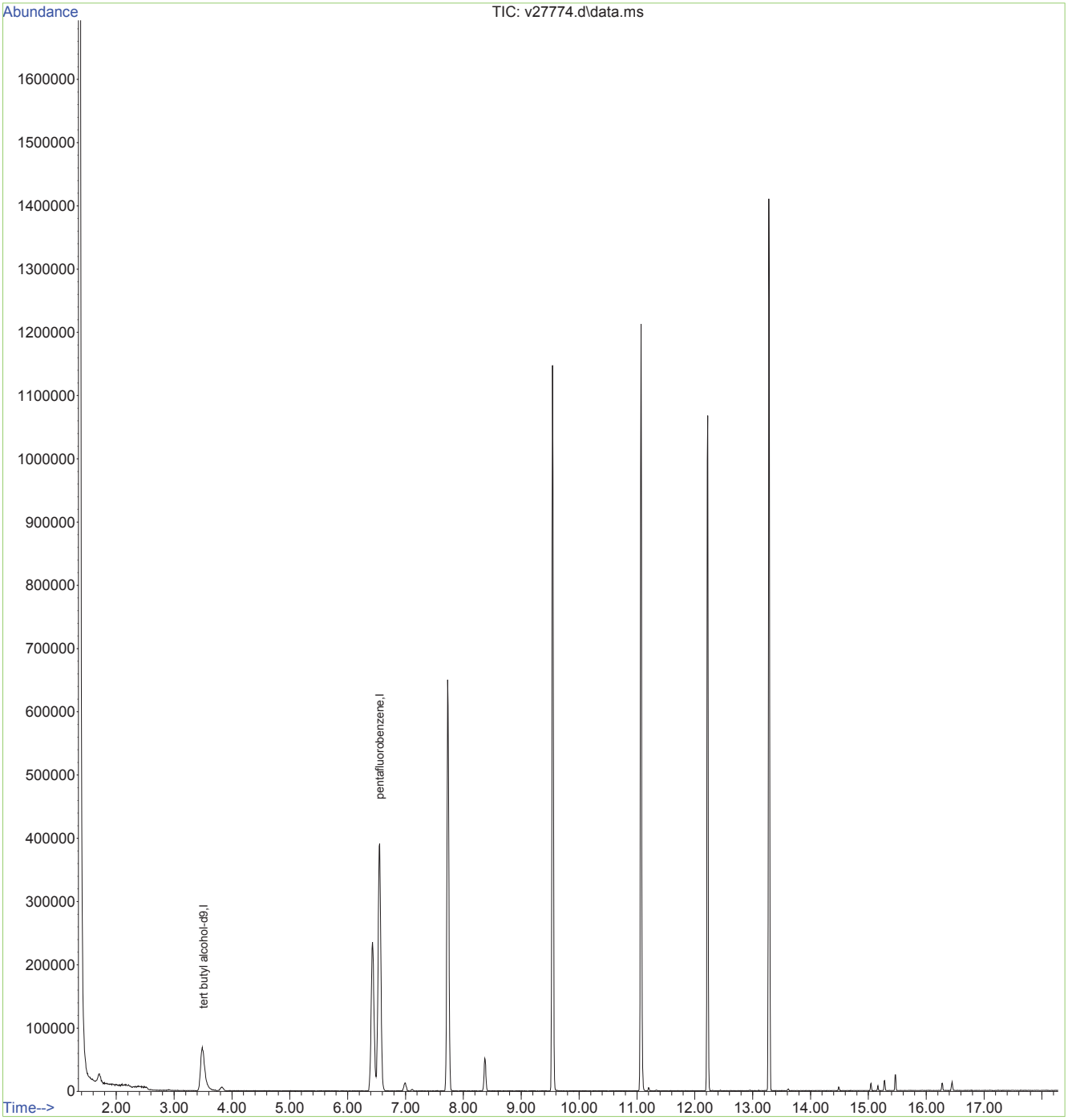
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140210\
Data File : v27774.d
Acq On : 10 Feb 2014 7:45 pm
Operator : amym
Sample : mc28046-1
Misc : MS31103,MSV1046,,,,5,1
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Nov 20 08:56:44 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140210\
Data File : v27751.d
Acq On : 10 Feb 2014 9:37 am
Operator : amym
Sample : bs
Misc : MS31098,MSV1046,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 20 08:48:50 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

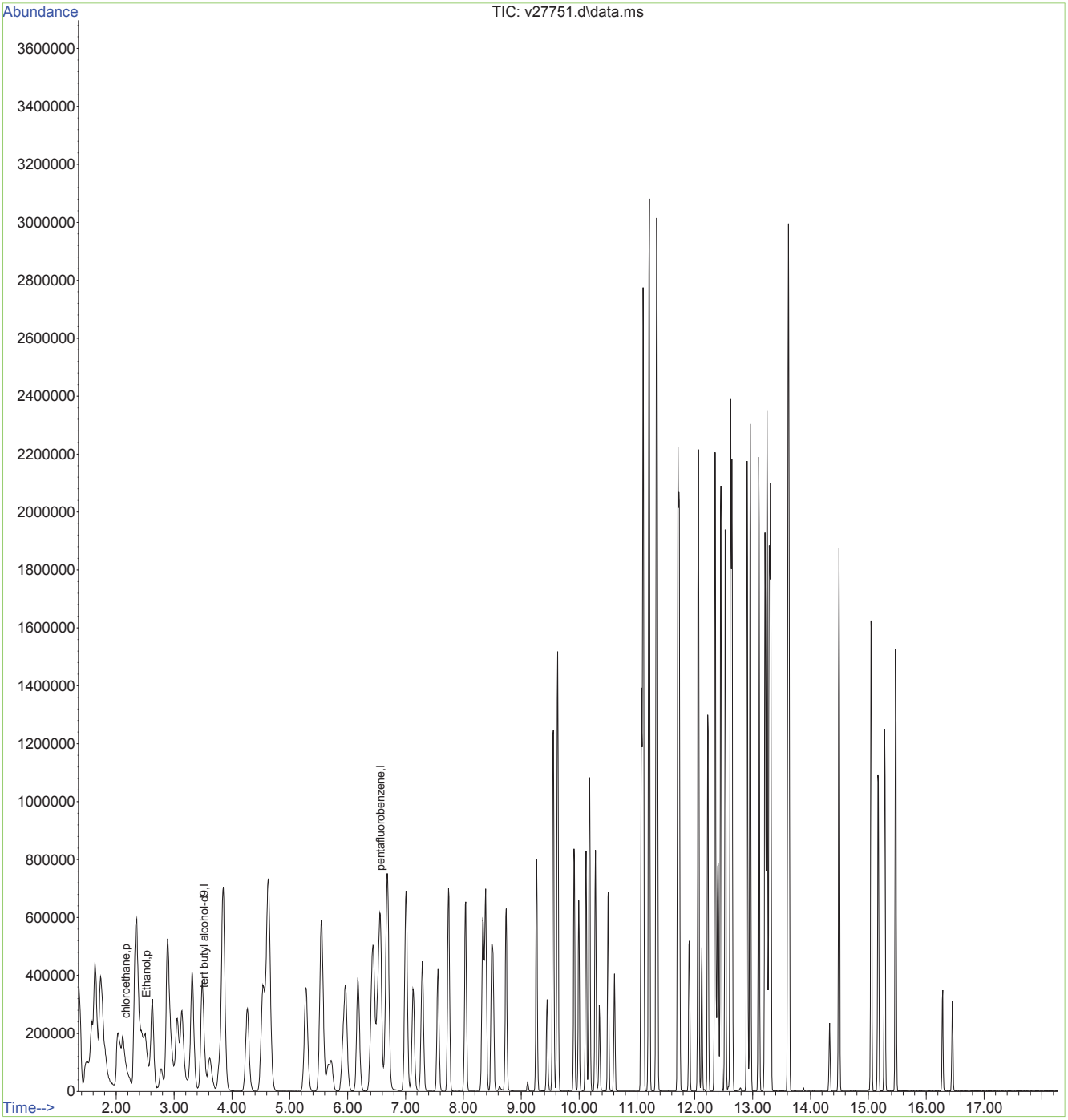
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.517	65	154033	500.00	ug/L	0.00
3) pentafluorobenzene	6.566	168	532374	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.516	45	258912	10699.82	ug/L #	1
4) chloroethane	2.166	64	291622	71.46	ug/L	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140210\
Data File : v27751.d
Acq On : 10 Feb 2014 9:37 am
Operator : amym
Sample : bs
Misc : MS31098,MSV1046,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 20 08:48:50 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140210\
Data File : v27752.d
Acq On : 10 Feb 2014 10:03 am
Operator : amym
Sample : bsd
Misc : MS31098,MSV1046,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 20 08:49:29 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

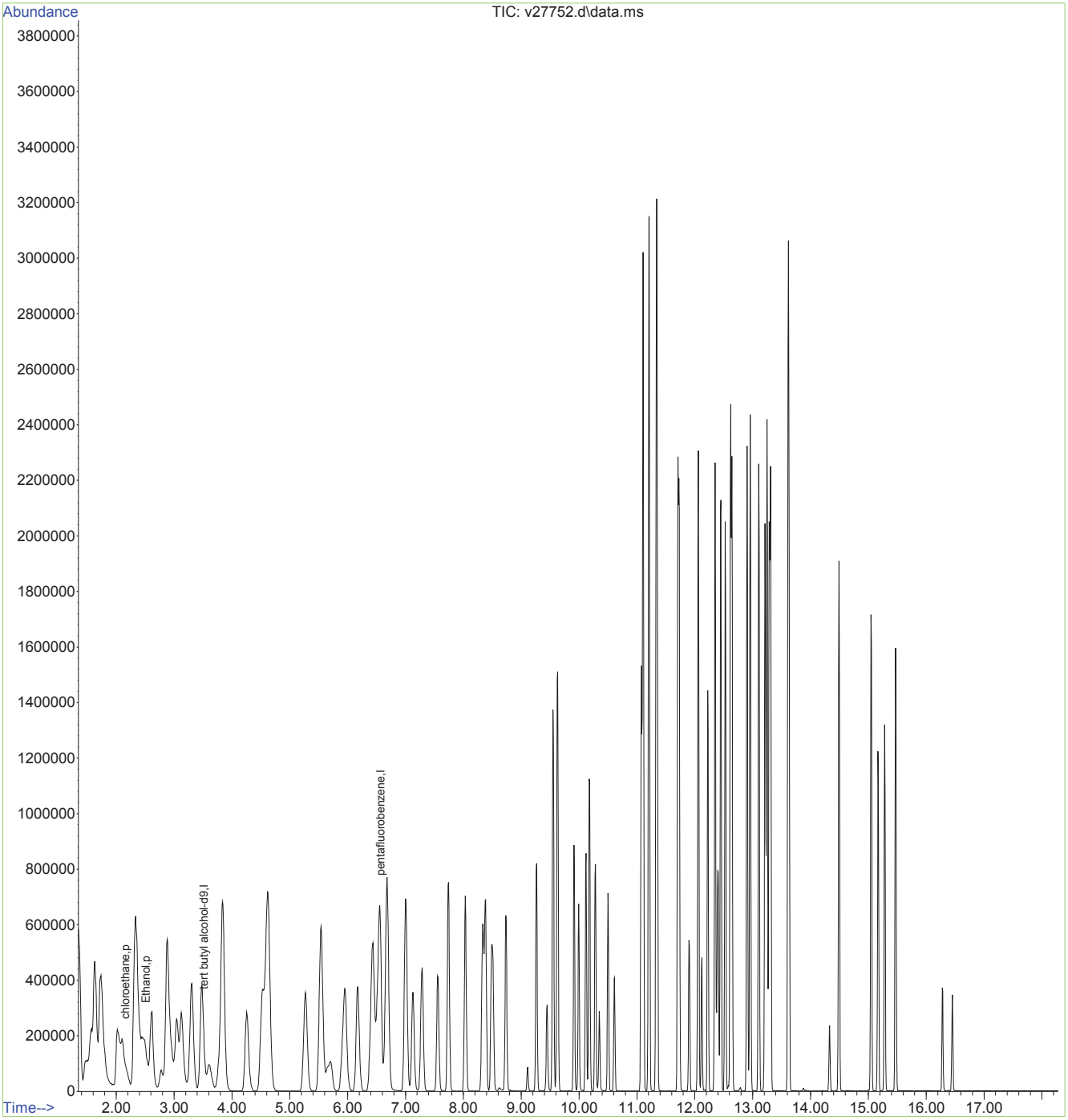
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.514	65	163827	500.00	ug/L	0.00
3) pentafluorobenzene	6.561	168	584611	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.508	45	242934	9382.87	ug/L	# 1
4) chloroethane	2.149	64	298502	66.55	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140210\
Data File : v27752.d
Acq On : 10 Feb 2014 10:03 am
Operator : amym
Sample : bsd
Misc : MS31098,MSV1046,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 20 08:49:29 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140210\
Data File : v27754.d
Acq On : 10 Feb 2014 10:56 am
Operator : amym
Sample : mb
Misc : MS31103,MSV1046,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 20 08:49:52 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.516	65	170093	500.00	ug/L	0.00
3) pentafluorobenzene	6.565	168	466795	50.00	ug/L	0.00

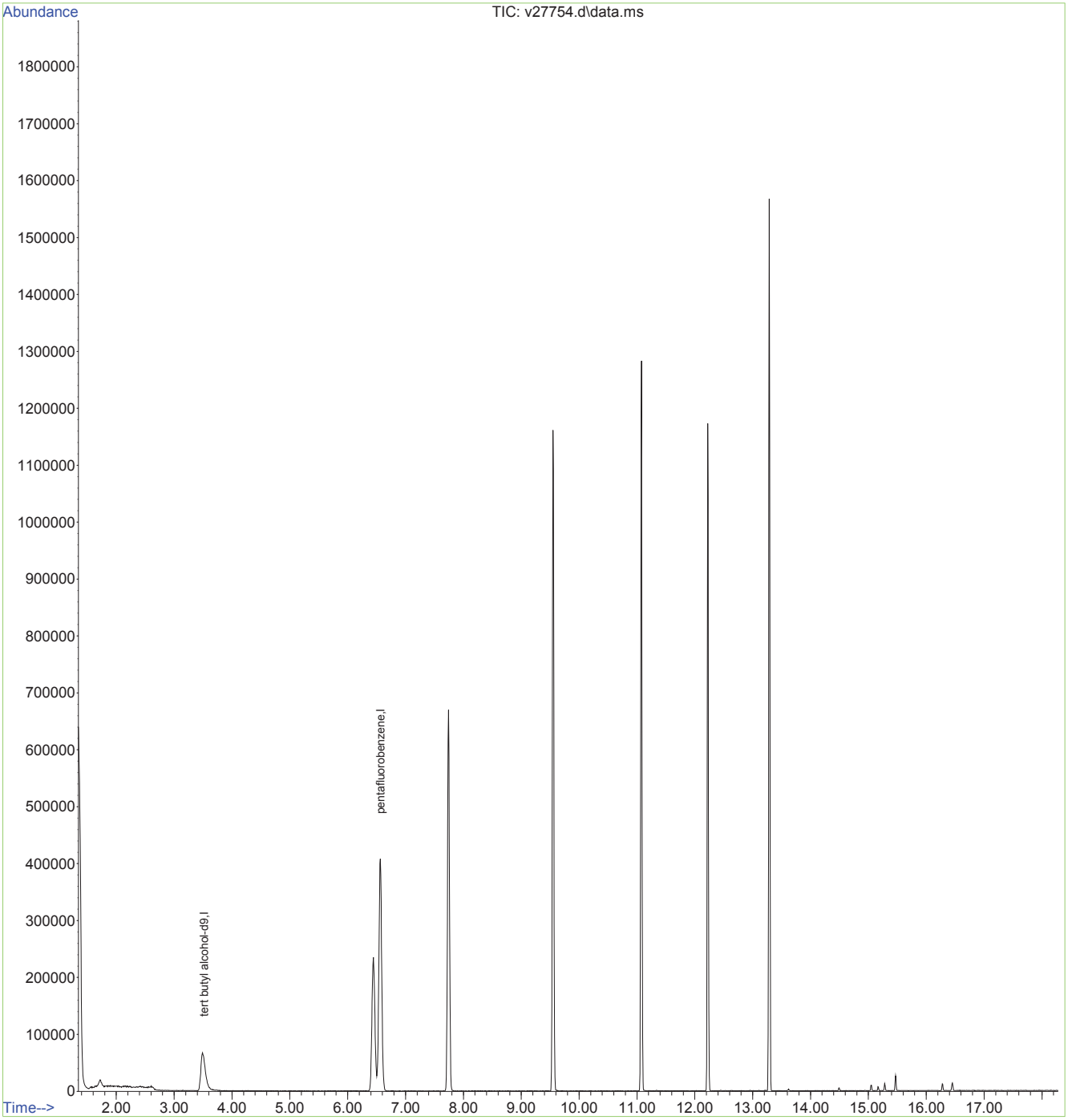
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140210\
Data File : v27754.d
Acq On : 10 Feb 2014 10:56 am
Operator : amym
Sample : mb
Misc : MS31103,MSV1046,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 20 08:49:52 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140210\
Data File : v27771.d
Acq On : 10 Feb 2014 6:25 pm
Operator : amym
Sample : mc28113-4ms
Misc : MS31098,MSV1046,,,,5,5
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Nov 20 08:55:21 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

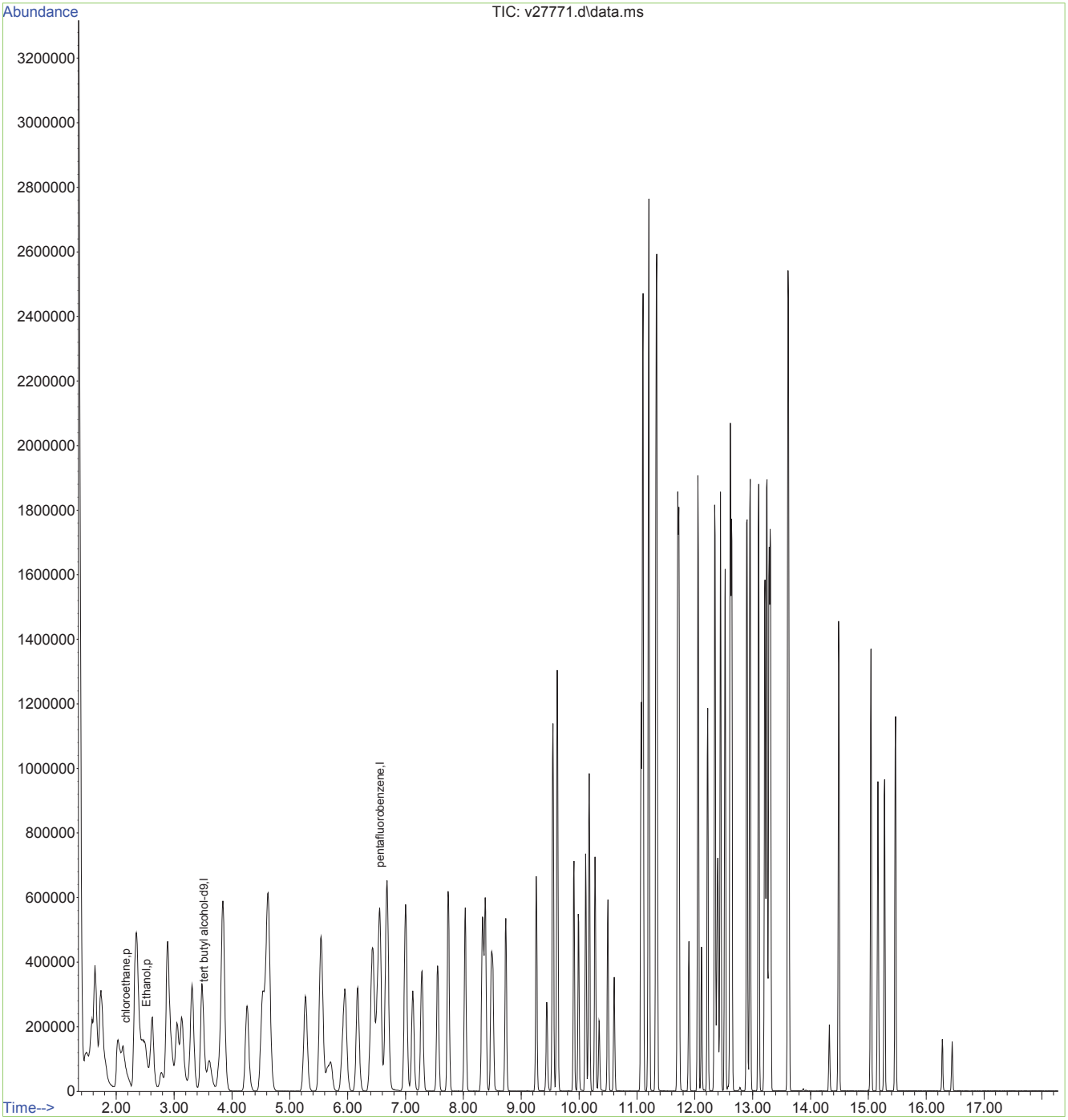
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.514	65	143781	500.00	ug/L	0.00
3) pentafluorobenzene	6.560	168	470549	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.515	45	206234	9060.27	ug/L	# 1
4) chloroethane	2.163	64	227495	62.97	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140210\
Data File : v27771.d
Acq On : 10 Feb 2014 6:25 pm
Operator : amym
Sample : mc28113-4ms
Misc : MS31098,MSV1046,,,,5,5
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Nov 20 08:55:21 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140210\
Data File : v27772.d
Acq On : 10 Feb 2014 6:52 pm
Operator : amym
Sample : mc28113-4msd
Misc : MS31098,MSV1046,,,,5,5
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Nov 20 08:55:42 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

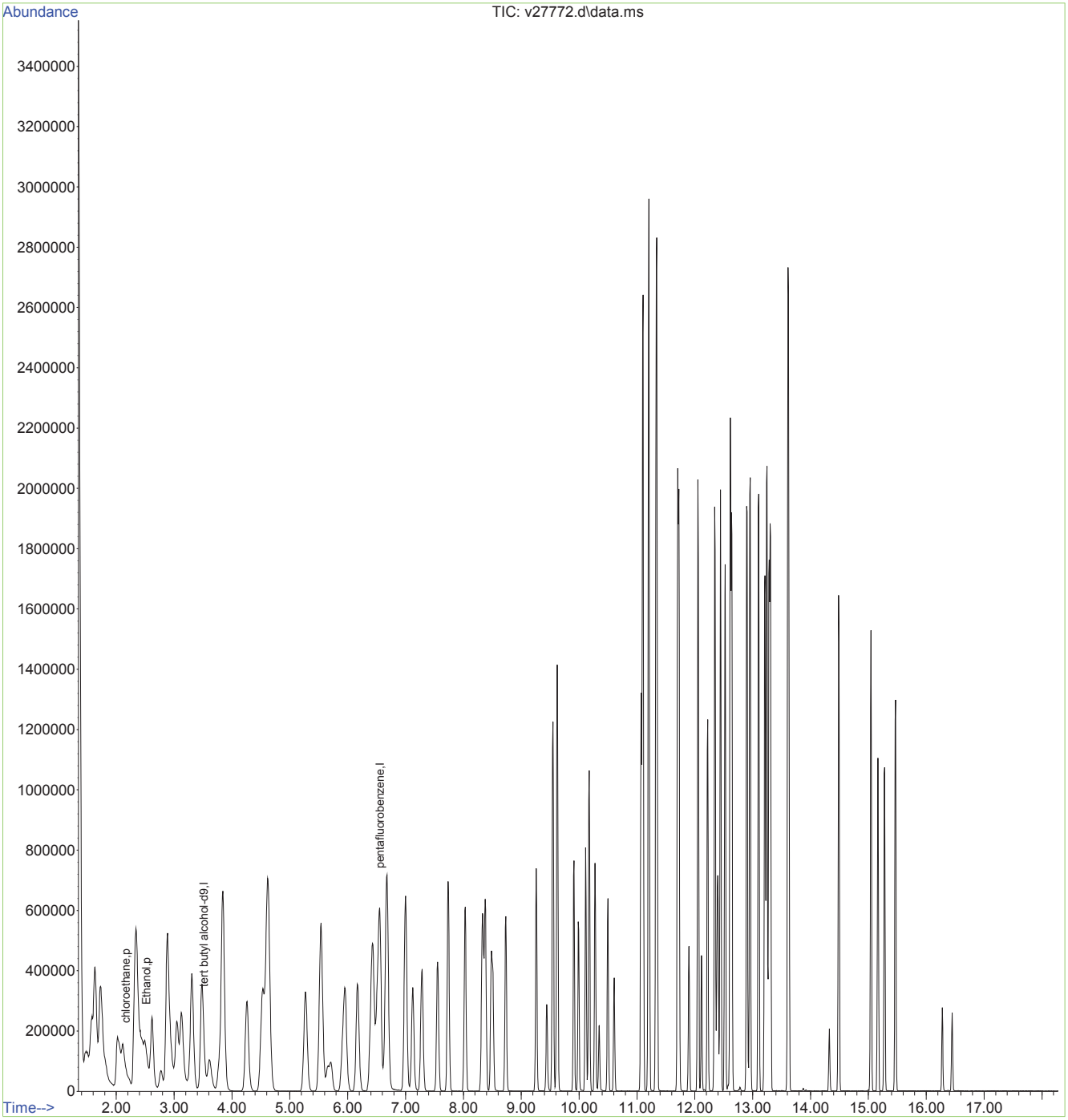
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.512	65	137596	500.00	ug/L	0.00
3) pentafluorobenzene	6.558	168	512262	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.516	45	228513	10565.92	ug/L	# 1
4) chloroethane	2.162	64	246982	62.79	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140210\
Data File : v27772.d
Acq On : 10 Feb 2014 6:52 pm
Operator : amym
Sample : mc28113-4msd
Misc : MS31098,MSV1046,,,,5,5
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Nov 20 08:55:42 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Internal Sample Tracking Chronicle

Shell Oil

Job No: MC28046

URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC28046-1 Collected: 31-JAN-14 15:10 By: DMMM Received: 01-FEB-14 By: P93D-ROX-013114						
MC28046-1	SW846 8011	04-FEB-14 15:47	NK	03-FEB-14	AZ	V8011SL
MC28046-1	SW846 8270D BY SIM	04-FEB-14 21:10	MR	03-FEB-14	AJ	B8270SIMSL
MC28046-1	SW846 8260C	10-FEB-14 19:45	AMY			V8260SL+
MC28046-1	SW846 8270D	11-FEB-14 15:16	WK	06-FEB-14	TA	AB8270SL+
MC28046-2 Collected: 31-JAN-14 00:00 By: DMMM Received: 01-FEB-14 By: TB-ROX-013114-HCL						
MC28046-2	SW846 8260C	10-FEB-14 11:49	AMY			V8260SL+
MC28046-3 Collected: 31-JAN-14 00:00 By: DMMM Received: 01-FEB-14 By: TB-ROX-013114-ST						
MC28046-3	SW846 8011	04-FEB-14 16:10	NK	03-FEB-14	AZ	V8011SL

SGS Accutest Internal Chain of Custody

Job Number: MC28046
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL
Received: 02/01/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC28046-1.1	Walk In Ref #22	Aysia Wood	02/03/14 14:28	Retrieve from Storage
MC28046-1.1	Aysia Wood	Walk In Ref #22	02/03/14 21:35	Return to Storage
MC28046-1.1	Scott Parsick		03/25/14 11:35	Disposed
MC28046-1.2	Walk In Ref #22	Thomas Abruzzise	02/06/14 15:47	Retrieve from Storage
MC28046-1.2	Scott Parsick		03/25/14 11:35	Disposed
MC28046-1.4	VOC Ref #4	Amy Min Yang	02/10/14 10:33	Retrieve from Storage
MC28046-1.4	Amy Min Yang	GCMSV	02/10/14 10:33	Load on Instrument
MC28046-1.4	GCMSV	Amy Min Yang	02/10/14 16:57	Unload from Instrument
MC28046-1.4	Amy Min Yang	VOC Ref #4	02/10/14 16:57	Return to Storage
MC28046-1.4	Scott Parsick		03/25/14 11:35	Disposed
MC28046-1.5	VOC Ref #4	Marc Tahtamoni	02/03/14 19:19	Retrieve from Storage
MC28046-1.5	Marc Tahtamoni		02/27/14 22:07	Depleted
MC28046-2.1	VOC Ref #4	Amy Min Yang	02/10/14 10:33	Retrieve from Storage
MC28046-2.1	Amy Min Yang	GCMSV	02/10/14 10:33	Load on Instrument
MC28046-2.1	GCMSV	Amy Min Yang	02/10/14 16:57	Unload from Instrument
MC28046-2.1	Amy Min Yang	VOC Ref #4	02/10/14 16:57	Return to Storage
MC28046-2.1	Scott Parsick		03/25/14 11:35	Disposed
MC28046-3.2	VOC Ref #4	Marc Tahtamoni	02/03/14 19:19	Retrieve from Storage
MC28046-3.2	Marc Tahtamoni		02/27/14 22:07	Depleted

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC28046
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1046-MB	V27754.D	1	02/10/14	AMY	n/a	n/a	MSV1046

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC28046-1, MC28046-2

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	4.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.77	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	

Method Blank Summary

Job Number: MC28046
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1046-MB	V27754.D	1	02/10/14	AMY	n/a	n/a	MSV1046

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC28046-1, MC28046-2

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
123-91-1	1,4-Dioxane	ND	25	16	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	3.9	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.91	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

Method Blank Summary

Job Number: MC28046
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1046-MB	V27754.D	1	02/10/14	AMY	n/a	n/a	MSV1046

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC28046-1, MC28046-2

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	101%	70-130%
2037-26-5	Toluene-D8	97%	70-130%
460-00-4	4-Bromofluorobenzene	104%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Job Number: MC28046
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1046-BS	V27751.D	1	02/10/14	AMY	n/a	n/a	MSV1046

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC28046-1, MC28046-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	38.2	76	70-130
107-02-8	Acrolein	50	53.6	107	70-130
107-13-1	Acrylonitrile	100	76.6	77	70-130
71-43-2	Benzene	50	49.9	100	70-130
108-86-1	Bromobenzene	50	53.3	107	70-130
74-97-5	Bromochloromethane	50	49.8	100	70-130
75-27-4	Bromodichloromethane	50	55.1	110	70-130
75-25-2	Bromoform	50	43.4	87	70-130
74-83-9	Bromomethane	50	56.1	112	70-130
78-93-3	2-Butanone (MEK)	50	39.7	79	70-130
104-51-8	n-Butylbenzene	50	56.8	114	70-130
135-98-8	sec-Butylbenzene	50	58.5	117	70-130
98-06-6	tert-Butylbenzene	50	57.7	115	70-130
75-15-0	Carbon disulfide	50	41.6	83	70-130
56-23-5	Carbon tetrachloride	50	54.5	109	70-130
108-90-7	Chlorobenzene	50	45.7	91	70-130
75-00-3	Chloroethane	50	71.5	143*	70-130
110-75-8	2-Chloroethyl vinyl ether	50	48.1	96	70-130
67-66-3	Chloroform	50	48.8	98	70-130
74-87-3	Chloromethane	50	54.2	108	70-130
95-49-8	o-Chlorotoluene	50	52.5	105	70-130
106-43-4	p-Chlorotoluene	50	54.2	108	70-130
124-48-1	Dibromochloromethane	50	56.2	112	70-130
95-50-1	1,2-Dichlorobenzene	50	49.2	98	70-130
541-73-1	1,3-Dichlorobenzene	50	50.2	100	70-130
106-46-7	1,4-Dichlorobenzene	50	49.7	99	70-130
75-71-8	Dichlorodifluoromethane	50	50.5	101	70-130
75-34-3	1,1-Dichloroethane	50	49.7	99	70-130
107-06-2	1,2-Dichloroethane	50	50.3	101	70-130
75-35-4	1,1-Dichloroethene	50	48.1	96	70-130
156-59-2	cis-1,2-Dichloroethene	50	50.4	101	70-130
156-60-5	trans-1,2-Dichloroethene	50	48.6	97	70-130
78-87-5	1,2-Dichloropropane	50	49.3	99	70-130
142-28-9	1,3-Dichloropropane	50	48.9	98	70-130
594-20-7	2,2-Dichloropropane	50	60.2	120	70-130
563-58-6	1,1-Dichloropropene	50	50.2	100	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC28046
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1046-BS	V27751.D	1	02/10/14	AMY	n/a	n/a	MSV1046

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC28046-1, MC28046-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	50	47.4	95	70-130
10061-02-6	trans-1,3-Dichloropropene	50	49.7	99	70-130
123-91-1	1,4-Dioxane	250	202	81	70-130
97-63-2	Ethyl methacrylate	50	45.3	91	77-137
100-41-4	Ethylbenzene	50	52.9	106	70-130
87-68-3	Hexachlorobutadiene	50	57.5	115	70-130
591-78-6	2-Hexanone	50	40.7	81	70-130
98-82-8	Isopropylbenzene	50	59.3	119	70-130
99-87-6	p-Isopropyltoluene	50	56.7	113	70-130
1634-04-4	Methyl Tert Butyl Ether	50	53.0	106	70-130
108-10-1	4-Methyl-2-pentanone (MIBK)	50	49.7	99	70-130
74-95-3	Methylene bromide	50	49.0	98	70-130
75-09-2	Methylene chloride	50	44.9	90	70-130
91-20-3	Naphthalene	50	50.4	101	70-130
103-65-1	n-Propylbenzene	50	56.5	113	70-130
100-42-5	Styrene	50	48.5	97	70-130
630-20-6	1,1,1,2-Tetrachloroethane	50	52.9	106	70-130
79-34-5	1,1,2,2-Tetrachloroethane	50	50.3	101	70-130
127-18-4	Tetrachloroethene	50	52.1	104	70-130
108-88-3	Toluene	50	53.7	107	70-130
87-61-6	1,2,3-Trichlorobenzene	50	57.8	116	70-130
120-82-1	1,2,4-Trichlorobenzene	50	59.8	120	70-130
71-55-6	1,1,1-Trichloroethane	50	54.8	110	70-130
79-00-5	1,1,2-Trichloroethane	50	49.2	98	70-130
79-01-6	Trichloroethene	50	51.7	103	70-130
75-69-4	Trichlorofluoromethane	50	62.4	125	70-130
96-18-4	1,2,3-Trichloropropane	50	53.7	107	70-130
95-63-6	1,2,4-Trimethylbenzene	50	57.4	115	70-130
108-67-8	1,3,5-Trimethylbenzene	50	58.3	117	70-130
108-05-4	Vinyl Acetate	50	49.5	99	70-130
75-01-4	Vinyl chloride	50	54.2	108	70-130
	m,p-Xylene	100	88.0	88	70-130
95-47-6	o-Xylene	50	44.5	89	70-130
1330-20-7	Xylene (total)	150	132	88	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC28046
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1046-BS	V27751.D	1	02/10/14	AMY	n/a	n/a	MSV1046

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC28046-1, MC28046-2

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	96%	70-130%
2037-26-5	Toluene-D8	99%	70-130%
460-00-4	4-Bromofluorobenzene	100%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC28046
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC28113-4MS	V27771.D	5	02/10/14	AMY	n/a	n/a	MSV1046
MC28113-4MSD	V27772.D	5	02/10/14	AMY	n/a	n/a	MSV1046
MC28113-4	V27760.D	1	02/10/14	AMY	n/a	n/a	MSV1046

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC28046-1, MC28046-2

CAS No.	Compound	MC28113-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		250	142	57* a	250	124	50* a	14	70-130/30
107-02-8	Acrolein	ND		250	230	92	250	217	87	6	70-130/30
107-13-1	Acrylonitrile	ND		500	401	80	500	374	75	7	70-130/30
71-43-2	Benzene	ND		250	237	95	250	237	95	0	70-130/30
108-86-1	Bromobenzene	ND		250	256	102	250	260	104	2	70-130/30
74-97-5	Bromochloromethane	ND		250	235	94	250	237	95	1	70-130/30
75-27-4	Bromodichloromethane	ND		250	263	105	250	260	104	1	70-130/30
75-25-2	Bromoform	ND		250	207	83	250	201	80	3	70-130/30
74-83-9	Bromomethane	ND		250	244	98	250	250	100	2	70-130/30
78-93-3	2-Butanone (MEK)	ND		250	163	65* a	250	150	60* a	8	70-130/30
104-51-8	n-Butylbenzene	ND		250	279	112	250	284	114	2	70-130/30
135-98-8	sec-Butylbenzene	ND		250	287	115	250	290	116	1	70-130/30
98-06-6	tert-Butylbenzene	ND		250	283	113	250	290	116	2	70-130/30
75-15-0	Carbon disulfide	ND		250	198	79	250	201	80	2	70-130/30
56-23-5	Carbon tetrachloride	ND		250	276	110	250	269	108	3	70-130/30
108-90-7	Chlorobenzene	ND		250	217	87	250	219	88	1	70-130/30
75-00-3	Chloroethane	ND		250	315	126	250	314	126	0	70-130/30
110-75-8	2-Chloroethyl vinyl ether	ND		250	ND	0* a	250	ND	0* a	nc	70-130/30
67-66-3	Chloroform	ND		250	237	95	250	236	94	0	70-130/30
74-87-3	Chloromethane	ND		250	282	113	250	253	101	11	70-130/30
95-49-8	o-Chlorotoluene	ND		250	257	103	250	260	104	1	70-130/30
106-43-4	p-Chlorotoluene	ND		250	263	105	250	267	107	2	70-130/30
124-48-1	Dibromochloromethane	ND		250	269	108	250	264	106	2	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		250	234	94	250	238	95	2	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		250	238	95	250	246	98	3	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		250	240	96	250	241	96	0	70-130/30
75-71-8	Dichlorodifluoromethane	ND		250	270	108	250	270	108	0	70-130/30
75-34-3	1,1-Dichloroethane	ND		250	241	96	250	241	96	0	70-130/30
107-06-2	1,2-Dichloroethane	ND		250	252	101	250	245	98	3	70-130/30
75-35-4	1,1-Dichloroethene	ND		250	233	93	250	235	94	1	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		250	234	94	250	239	96	2	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		250	230	92	250	232	93	1	70-130/30
78-87-5	1,2-Dichloropropane	ND		250	236	94	250	237	95	0	70-130/30
142-28-9	1,3-Dichloropropane	ND		250	238	95	250	234	94	2	70-130/30
594-20-7	2,2-Dichloropropane	ND		250	277	111	250	277	111	0	70-130/30
563-58-6	1,1-Dichloropropene	ND		250	243	97	250	242	97	0	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC28046
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC28113-4MS	V27771.D	5	02/10/14	AMY	n/a	n/a	MSV1046
MC28113-4MSD	V27772.D	5	02/10/14	AMY	n/a	n/a	MSV1046
MC28113-4	V27760.D	1	02/10/14	AMY	n/a	n/a	MSV1046

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC28046-1, MC28046-2

CAS No.	Compound	MC28113-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		250	214	86	250	217	87	1	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		250	234	94	250	231	92	1	70-130/30
123-91-1	1,4-Dioxane	ND		1250	1030	82	1250	1000	80	3	70-130/30
97-63-2	Ethyl methacrylate	ND		250	217	87	250	209	84	4	72-139/30
100-41-4	Ethylbenzene	ND		250	252	101	250	253	101	0	70-130/30
87-68-3	Hexachlorobutadiene	ND		250	273	109	250	294	118	7	70-130/30
591-78-6	2-Hexanone	ND		250	181	72	250	165	66* [a]	9	70-130/30
98-82-8	Isopropylbenzene	ND		250	290	116	250	293	117	1	70-130/30
99-87-6	p-Isopropyltoluene	ND		250	275	110	250	282	113	3	70-130/30
1634-04-4	Methyl Tert Butyl Ether	4.5		250	256	101	250	244	96	5	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	250	100	250	230	92	8	70-130/30
74-95-3	Methylene bromide	ND		250	239	96	250	234	94	2	70-130/30
75-09-2	Methylene chloride	ND		250	215	86	250	218	87	1	70-130/30
91-20-3	Naphthalene	ND		250	223	89	250	235	94	5	70-130/30
103-65-1	n-Propylbenzene	ND		250	276	110	250	279	112	1	70-130/30
100-42-5	Styrene	ND		250	230	92	250	231	92	0	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		250	255	102	250	256	102	0	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	253	101	250	243	97	4	70-130/30
127-18-4	Tetrachloroethene	ND		250	250	100	250	251	100	0	70-130/30
108-88-3	Toluene	ND		250	256	102	250	253	101	1	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		250	254	102	250	273	109	7	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		250	272	109	250	282	113	4	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		250	263	105	250	263	105	0	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		250	239	96	250	235	94	2	70-130/30
79-01-6	Trichloroethene	ND		250	244	98	250	248	99	2	70-130/30
75-69-4	Trichlorofluoromethane	ND		250	316	126	250	306	122	3	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		250	268	107	250	255	102	5	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		250	280	112	250	284	114	1	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		250	286	114	250	287	115	0	70-130/30
108-05-4	Vinyl Acetate	ND		250	241	96	250	238	95	1	70-130/30
75-01-4	Vinyl chloride	ND		250	243	97	250	244	98	0	70-130/30
	m,p-Xylene	ND		500	421	84	500	424	85	1	70-130/30
95-47-6	o-Xylene	ND		250	211	84	250	212	85	0	70-130/30
1330-20-7	Xylene (total)	ND		750	632	84	750	636	85	1	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC28046
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC28113-4MS	V27771.D	5	02/10/14	AMY	n/a	n/a	MSV1046
MC28113-4MSD	V27772.D	5	02/10/14	AMY	n/a	n/a	MSV1046
MC28113-4	V27760.D	1	02/10/14	AMY	n/a	n/a	MSV1046

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC28046-1, MC28046-2

CAS No.	Surrogate Recoveries	MS	MSD	MC28113-4	Limits
1868-53-7	Dibromofluoromethane	98%	98%	107%	70-130%
2037-26-5	Toluene-D8	99%	98%	97%	70-130%
460-00-4	4-Bromofluorobenzene	102%	101%	103%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.

* = Outside of Control Limits.

Volatile Internal Standard Area Summary

Job Number: MC28046
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSV1046-CC1019	**Injection Date:**	02/10/14
Lab File ID:	V27750.D	**Injection Time:**	09:10
Instrument ID:	GCMSV	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	534127	6.57	673061	7.75	365992	11.08	392790	13.29	174408	3.52
Upper Limit [a]	1068254	7.07	1346122	8.25	731984	11.58	785580	13.79	348816	4.02
Lower Limit [b]	267064	6.07	336531	7.25	182996	10.58	196395	12.79	87204	3.02

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSV1046-BS	532374	6.57	670712	7.75	362322	11.08	389835	13.29	154033	3.52
MSV1046-MB	466795	6.57	615908	7.74	329845	11.08	315739	13.29	170093	3.52
ZZZZZZ	455638	6.57	610981	7.74	328418	11.08	313907	13.29	134097	3.52
MC28046-2	430203	6.56	583204	7.74	313791	11.08	299278	13.29	124133	3.51
ZZZZZZ	425262	6.57	576397	7.75	310656	11.08	296261	13.29	151487	3.52
ZZZZZZ	403947	6.57	543947	7.75	295802	11.08	301901	13.29	120642	3.52
MC28113-4	413538	6.56	556500	7.74	298292	11.08	283541	13.29	126997	3.51
ZZZZZZ	515114	6.57	726409	7.74	356817	11.08	326407	13.29	168751	3.53
ZZZZZZ	418741	6.57	580459	7.75	309312	11.08	291199	13.29	143742	3.52
ZZZZZZ	377934	6.56	521951	7.74	280002	11.08	272411	13.29	119762	3.51
ZZZZZZ	390529	6.56	531576	7.74	287750	11.07	276208	13.29	131554	3.51
ZZZZZZ	383915	6.56	547891	7.74	290220	11.07	272230	13.29	111507	3.51
ZZZZZZ	373133	6.56	537110	7.74	286298	11.07	269619	13.29	104615	3.51
ZZZZZZ	362619	6.56	528875	7.74	281831	11.07	268189	13.29	111898	3.52
MC28113-4MS	470549	6.56	590685	7.74	320293	11.07	337803	13.28	143781	3.51
MC28113-4MSD	512262	6.56	647593	7.74	347914	11.07	362663	13.28	137596	3.51
ZZZZZZ	446581	6.56	587527	7.74	312702	11.07	311950	13.28	116480	3.51
MC28046-1	428109	6.55	572814	7.73	308792	11.07	293263	13.28	149985	3.50
ZZZZZZ	418274	6.56	585162	7.74	309590	11.07	312283	13.28	147877	3.51

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: MC28046
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Method: SW846 8260C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC28046-1	V27774.D	106	97	104
MC28046-2	V27756.D	105	96	104
MC28113-4MS	V27771.D	98	99	102
MC28113-4MSD	V27772.D	98	98	101
MSV1046-BS	V27751.D	96	99	100
MSV1046-MB	V27754.D	101	97	104

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	70-130%
S2 = Toluene-D8	70-130%
S3 = 4-Bromofluorobenzene	70-130%

GC/MS Semi-volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC28046
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36776-MB	F71514.D	1	02/11/14	WK	02/06/14	OP36776	MSF3184

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC28046-1

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.38	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.49	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.33	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	ND	10	1.3	ug/l	
	3&4-Methylphenol	ND	10	2.0	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.50	ug/l	
100-02-7	4-Nitrophenol	ND	20	0.58	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	ND	5.0	0.51	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.57	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.32	ug/l	
62-53-3	Aniline	ND	10	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.20	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.85	ug/l	
100-51-6	Benzyl Alcohol	ND	10	0.57	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.92	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.25	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.21	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.23	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.13	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.20	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.65	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.68	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.64	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.50	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.39	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	0.43	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	0.50	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.50	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.49	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.30	ug/l	

Method Blank Summary

Job Number: MC28046
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36776-MB	F71514.D	1	02/11/14	WK	02/06/14	OP36776	MSF3184

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC28046-1

CAS No.	Compound	Result	RL	MDL	Units	Q
77-47-4	Hexachlorocyclopentadiene	ND	10	2.5	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.44	ug/l	
78-59-1	Isophorone	ND	5.0	0.20	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.50	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.3	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.25	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.0	0.50	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.81	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.54	ug/l	
110-86-1	Pyridine	ND	10	0.52	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	39%	15-110%
4165-62-2	Phenol-d5	27%	15-110%
118-79-6	2,4,6-Tribromophenol	71%	15-110%
4165-60-0	Nitrobenzene-d5	62%	30-130%
321-60-8	2-Fluorobiphenyl	68%	30-130%
1718-51-0	Terphenyl-d14	86%	30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

Method Blank Summary

Job Number: MC28046
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36750-MB	I87278.D	1	02/04/14	MR	02/03/14	OP36750	MSI3244

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

MC28046-1

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.069	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.050	ug/l	
120-12-7	Anthracene	ND	0.10	0.092	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	0.020	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.029	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	0.032	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.027	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.039	ug/l	
218-01-9	Chrysene	ND	0.10	0.024	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.032	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.041	ug/l	
86-73-7	Fluorene	ND	0.10	0.099	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.031	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.20	0.050	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.20	0.074	ug/l	
85-01-8	Phenanthrene	0.017	0.050	0.013	ug/l	J
129-00-0	Pyrene	ND	0.10	0.038	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	85%	30-130%
321-60-8	2-Fluorobiphenyl	73%	30-130%
1718-51-0	Terphenyl-d14	92%	30-130%

Blank Spike Summary

Job Number: MC28046
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36776-BS	F71515.D	1	02/11/14	WK	02/06/14	OP36776	MSF3184

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC28046-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	50	15.5	31	30-130
95-57-8	2-Chlorophenol	50	37.8	76	30-130
59-50-7	4-Chloro-3-methyl phenol	50	39.8	80	30-130
120-83-2	2,4-Dichlorophenol	50	42.4	85	30-130
105-67-9	2,4-Dimethylphenol	50	36.4	73	30-130
51-28-5	2,4-Dinitrophenol	50	40.1	80	30-130
534-52-1	4,6-Dinitro-o-cresol	50	50.3	101	30-130
95-48-7	2-Methylphenol	50	33.6	67	30-130
	3&4-Methylphenol	100	63.2	63	30-130
88-75-5	2-Nitrophenol	50	40.2	80	30-130
100-02-7	4-Nitrophenol	50	17.5	35	30-130
87-86-5	Pentachlorophenol	50	39.2	78	30-130
108-95-2	Phenol	50	17.5	35	30-130
95-95-4	2,4,5-Trichlorophenol	50	40.7	81	30-130
88-06-2	2,4,6-Trichlorophenol	50	40.7	81	30-130
62-53-3	Aniline	50	28.8	58	40-140
101-55-3	4-Bromophenyl phenyl ether	50	51.8	104	40-140
85-68-7	Butyl benzyl phthalate	50	46.9	94	40-140
100-51-6	Benzyl Alcohol	50	32.1	64	40-140
91-58-7	2-Chloronaphthalene	50	41.5	83	40-140
106-47-8	4-Chloroaniline	50	36.9	74	40-140
111-91-1	bis(2-Chloroethoxy)methane	50	41.1	82	40-140
111-44-4	bis(2-Chloroethyl)ether	50	41.2	82	40-140
108-60-1	bis(2-Chloroisopropyl)ether	50	45.2	90	40-140
7005-72-3	4-Chlorophenyl phenyl ether	50	44.4	89	40-140
122-66-7	1,2-Diphenylhydrazine	50	46.3	93	40-140
121-14-2	2,4-Dinitrotoluene	50	45.5	91	40-140
606-20-2	2,6-Dinitrotoluene	50	43.4	87	40-140
91-94-1	3,3'-Dichlorobenzidine	50	52.0	104	40-140
132-64-9	Dibenzofuran	50	38.7	77	40-140
84-74-2	Di-n-butyl phthalate	50	45.9	92	40-140
117-84-0	Di-n-octyl phthalate	50	50.7	101	40-140
84-66-2	Diethyl phthalate	50	38.2	76	40-140
131-11-3	Dimethyl phthalate	50	24.1	48	40-140
117-81-7	bis(2-Ethylhexyl)phthalate	50	50.9	102	40-140
118-74-1	Hexachlorobenzene	50	51.5	103	40-140

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC28046
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36776-BS	F71515.D	1	02/11/14	WK	02/06/14	OP36776	MSF3184

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC28046-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
77-47-4	Hexachlorocyclopentadiene	50	19.6	39* [a]	40-140
67-72-1	Hexachloroethane	50	29.0	58	40-140
78-59-1	Isophorone	50	38.5	77	40-140
88-74-4	2-Nitroaniline	50	43.0	86	40-140
99-09-2	3-Nitroaniline	50	40.2	80	40-140
100-01-6	4-Nitroaniline	50	40.6	81	40-140
98-95-3	Nitrobenzene	50	38.7	77	40-140
62-75-9	n-Nitrosodimethylamine	50	28.8	58	40-140
621-64-7	N-Nitroso-di-n-propylamine	50	42.3	85	40-140
86-30-6	N-Nitrosodiphenylamine	50	46.4	93	40-140
110-86-1	Pyridine	50	23.3	47	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	52%	15-110%
4165-62-2	Phenol-d5	33%	15-110%
118-79-6	2,4,6-Tribromophenol	100%	15-110%
4165-60-0	Nitrobenzene-d5	76%	30-130%
321-60-8	2-Fluorobiphenyl	77%	30-130%
1718-51-0	Terphenyl-d14	96%	30-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC28046
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36750-BS	I87279.D	1	02/04/14	MR	02/03/14	OP36750	MSI3244

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

MC28046-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	50	42.8	86	40-140
208-96-8	Acenaphthylene	50	36.0	72	40-140
120-12-7	Anthracene	50	41.6	83	40-140
56-55-3	Benzo(a)anthracene	50	48.8	98	40-140
50-32-8	Benzo(a)pyrene	50	46.0	92	40-140
205-99-2	Benzo(b)fluoranthene	50	47.1	94	40-140
191-24-2	Benzo(g,h,i)perylene	50	52.1	104	40-140
207-08-9	Benzo(k)fluoranthene	50	48.8	98	40-140
218-01-9	Chrysene	50	45.9	92	40-140
53-70-3	Dibenzo(a,h)anthracene	50	53.2	106	40-140
206-44-0	Fluoranthene	50	46.2	92	40-140
86-73-7	Fluorene	50	43.1	86	40-140
193-39-5	Indeno(1,2,3-cd)pyrene	50	53.1	106	40-140
90-12-0	1-Methylnaphthalene	50	37.2	74	40-140
91-57-6	2-Methylnaphthalene	50	36.3	73	40-140
85-01-8	Phenanthrene	50	42.0	84	40-140
129-00-0	Pyrene	50	45.2	90	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	82%	30-130%
321-60-8	2-Fluorobiphenyl	68%	30-130%
1718-51-0	Terphenyl-d14	84%	30-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC28046
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36776-MS	F71516.D	1	02/11/14	WK	02/06/14	OP36776	MSF3184
OP36776-MSD	F71517.D	1	02/11/14	WK	02/06/14	OP36776	MSF3184
MC28000-11	F71518.D	1	02/11/14	WK	02/06/14	OP36776	MSF3184

The QC reported here applies to the following samples: Method: SW846 8270D

MC28046-1

CAS No.	Compound	MC28000-11 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		50	15.8	32	50	15.3	31	3	30-130/20
95-57-8	2-Chlorophenol	ND		50	36.5	73	50	37.0	74	1	30-130/20
59-50-7	4-Chloro-3-methyl phenol	ND		50	37.6	75	50	34.2	68	9	30-130/20
120-83-2	2,4-Dichlorophenol	ND		50	41.5	83	50	40.0	80	4	30-130/20
105-67-9	2,4-Dimethylphenol	ND		50	37.0	74	50	35.3	71	5	30-130/20
51-28-5	2,4-Dinitrophenol	ND		50	39.8	80	50	38.0	76	5	30-130/20
534-52-1	4,6-Dinitro-o-cresol	ND		50	43.3	87	50	46.2	92	6	30-130/20
95-48-7	2-Methylphenol	ND		50	32.9	66	50	32.9	66	0	30-130/20
	3&4-Methylphenol	ND		100	59.8	60	100	59.5	60	1	30-130/20
88-75-5	2-Nitrophenol	ND		50	42.1	84	50	39.3	79	7	30-130/20
100-02-7	4-Nitrophenol	ND		50	17.0	34	50	16.9	34	1	30-130/20
87-86-5	Pentachlorophenol	ND		50	37.0	74	50	36.6	73	1	30-130/20
108-95-2	Phenol	ND		50	17.0	34	50	16.2	32	5	30-130/20
95-95-4	2,4,5-Trichlorophenol	ND		50	44.8	90	50	41.8	84	7	30-130/20
88-06-2	2,4,6-Trichlorophenol	ND		50	43.2	86	50	41.3	83	4	30-130/20
62-53-3	Aniline	ND		50	27.7	55	50	26.6	53	4	40-140/20
101-55-3	4-Bromophenyl phenyl ether	ND		50	45.3	91	50	44.1	88	3	40-140/20
85-68-7	Butyl benzyl phthalate	ND		50	45.6	91	50	44.2	88	3	40-140/20
100-51-6	Benzyl Alcohol	ND		50	30.3	61	50	30.3	61	0	40-140/20
91-58-7	2-Chloronaphthalene	ND		50	44.3	89	50	40.6	81	9	40-140/20
106-47-8	4-Chloroaniline	ND		50	36.3	73	50	33.3	67	9	40-140/20
111-91-1	bis(2-Chloroethoxy)methane	ND		50	40.3	81	50	38.7	77	4	40-140/20
111-44-4	bis(2-Chloroethyl)ether	ND		50	39.4	79	50	38.3	77	3	40-140/20
108-60-1	bis(2-Chloroisopropyl)ether	ND		50	45.7	91	50	44.8	90	2	40-140/20
7005-72-3	4-Chlorophenyl phenyl ether	ND		50	42.4	85	50	41.9	84	1	40-140/20
122-66-7	1,2-Diphenylhydrazine	ND		50	38.2	76	50	39.6	79	4	40-140/20
121-14-2	2,4-Dinitrotoluene	ND		50	45.2	90	50	44.4	89	2	40-140/20
606-20-2	2,6-Dinitrotoluene	ND		50	43.4	87	50	43.2	86	0	40-140/20
91-94-1	3,3'-Dichlorobenzidine	ND		50	50.2	100	50	49.0	98	2	40-140/20
132-64-9	Dibenzofuran	ND		50	39.3	79	50	38.5	77	2	40-140/20
84-74-2	Di-n-butyl phthalate	ND		50	43.6	87	50	43.5	87	0	40-140/20
117-84-0	Di-n-octyl phthalate	ND		50	48.0	96	50	46.6	93	3	40-140/20
84-66-2	Diethyl phthalate	ND		50	39.6	79	50	37.9	76	4	40-140/20
131-11-3	Dimethyl phthalate	ND		50	28.4	57	50	25.1	50	12	40-140/20
117-81-7	bis(2-Ethylhexyl)phthalate	ND		50	45.3	91	50	47.2	94	4	40-140/20
118-74-1	Hexachlorobenzene	ND		50	44.1	88	50	43.4	87	2	40-140/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC28046
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36776-MS	F71516.D	1	02/11/14	WK	02/06/14	OP36776	MSF3184
OP36776-MSD	F71517.D	1	02/11/14	WK	02/06/14	OP36776	MSF3184
MC28000-11	F71518.D	1	02/11/14	WK	02/06/14	OP36776	MSF3184

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC28046-1

CAS No.	Compound	MC28000-11 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
77-47-4	Hexachlorocyclopentadiene	ND		50	21.9	44	50	20.0	40	9	40-140/20
67-72-1	Hexachloroethane	ND		50	27.2	54	50	28.4	57	4	40-140/20
78-59-1	Isophorone	ND		50	40.0	80	50	38.2	76	5	40-140/20
88-74-4	2-Nitroaniline	ND		50	44.8	90	50	42.5	85	5	40-140/20
99-09-2	3-Nitroaniline	ND		50	40.7	81	50	40.3	81	1	40-140/20
100-01-6	4-Nitroaniline	ND		50	42.1	84	50	41.2	82	2	40-140/20
98-95-3	Nitrobenzene	ND		50	38.9	78	50	38.5	77	1	40-140/20
62-75-9	n-Nitrosodimethylamine	ND		50	26.7	53	50	25.1	50	6	40-140/20
621-64-7	N-Nitroso-di-n-propylamine	ND		50	39.0	78	50	39.5	79	1	40-140/20
86-30-6	N-Nitrosodiphenylamine	ND		50	39.8	80	50	41.5	83	4	40-140/20
110-86-1	Pyridine	ND		50	22.2	44	50	20.5	41	8	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC28000-11	Limits
367-12-4	2-Fluorophenol	49%	49%	46%	15-110%
4165-62-2	Phenol-d5	33%	31%	29%	15-110%
118-79-6	2,4,6-Tribromophenol	84%	86%	81%	15-110%
4165-60-0	Nitrobenzene-d5	77%	75%	71%	30-130%
321-60-8	2-Fluorobiphenyl	84%	78%	76%	30-130%
1718-51-0	Terphenyl-d14	93%	90%	94%	30-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC28046
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36750-MS	I87292.D	1	02/04/14	MR	02/03/14	OP36750	MSI3244
OP36750-MSD	I87293.D	1	02/04/14	MR	02/03/14	OP36750	MSI3244
MC28000-4	I87294.D	1	02/04/14	MR	02/03/14	OP36750	MSI3244

The QC reported here applies to the following samples: Method: SW846 8270D BY SIM

MC28046-1

CAS No.	Compound	MC28000-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND		50	40.4	81	50	43.8	88	8	40-140/20
208-96-8	Acenaphthylene	ND		50	34.2	68	50	36.8	74	7	40-140/20
120-12-7	Anthracene	ND		50	40.0	80	50	42.9	86	7	40-140/20
56-55-3	Benzo(a)anthracene	ND		50	46.4	93	50	49.9	100	7	40-140/20
50-32-8	Benzo(a)pyrene	ND		50	43.7	87	50	48.4	97	10	40-140/20
205-99-2	Benzo(b)fluoranthene	ND		50	46.5	93	50	50.1	100	7	40-140/20
191-24-2	Benzo(g,h,i)perylene	ND		50	49.0	98	50	54.8	110	11	40-140/20
207-08-9	Benzo(k)fluoranthene	ND		50	45.6	91	50	51.1	102	11	40-140/20
218-01-9	Chrysene	ND		50	43.5	87	50	47.4	95	9	40-140/20
53-70-3	Dibenzo(a,h)anthracene	ND		50	50.1	100	50	55.9	112	11	40-140/20
206-44-0	Fluoranthene	ND		50	43.9	88	50	47.3	95	7	40-140/20
86-73-7	Fluorene	ND		50	41.0	82	50	45.0	90	9	40-140/20
193-39-5	Indeno(1,2,3-cd)pyrene	ND		50	49.8	100	50	55.6	111	11	40-140/20
90-12-0	1-Methylnaphthalene	ND		50	34.7	69	50	36.6	73	5	40-140/20
91-57-6	2-Methylnaphthalene	ND		50	33.8	68	50	35.3	71	4	40-140/20
85-01-8	Phenanthrene	0.041	J	50	40.6	81	50	43.5	87	7	40-140/20
129-00-0	Pyrene	ND		50	43.3	87	50	46.6	93	7	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC28000-4	Limits
4165-60-0	Nitrobenzene-d5	75%	81%	80%	30-130%
321-60-8	2-Fluorobiphenyl	62%	62%	62%	30-130%
1718-51-0	Terphenyl-d14	79%	85%	88%	30-130%

* = Outside of Control Limits.

Semivolatile Internal Standard Area Summary

Job Number: MC28046
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSF3184-CC3181	**Injection Date:**	02/11/14
Lab File ID:	F71507.D	**Injection Time:**	08:46
Instrument ID:	GCMSF	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	828578	4.36	3056238	5.42	1839931	6.95	2933624	8.23	3335126	10.86	3299792	12.59
Upper Limit [a]	1657156	4.86	6112476	5.92	3679862	7.45	5867248	8.73	6670252	11.36	6599584	13.09
Lower Limit [b]	414289	3.86	1528119	4.92	919966	6.45	1466812	7.73	1667563	10.36	1649896	12.09
Lab Sample ID	**IS 1 AREA**	**RT**	**IS 2 AREA**	**RT**	**IS 3 AREA**	**RT**	**IS 4 AREA**	**RT**	**IS 5 AREA**	**RT**	**IS 6 AREA**	**RT**
OP36804-MB	791466	4.36	2713842	5.42	1778142	6.95	2743802	8.23	3031986	10.86	2988415	12.59
OP36804-BS	771817	4.36	2817886	5.42	1650829	6.95	3023366	8.23	3333991	10.86	3308084	12.59
OP36804-MS	813080	4.36	2974674	5.42	1824281	6.95	3092172	8.23	3259321	10.86	3083073	12.59
OP36804-MSD	749550	4.36	2750751	5.42	1782244	6.95	3014002	8.23	3413600	10.86	3363565	12.59
MC28185-1	774040	4.36	2826201	5.42	1686108	6.95	2834011	8.23	3193060	10.86	3232718	12.59
ZZZZZZ	834359	4.36	2872829	5.42	1875801	6.95	3134377	8.23	3398255	10.86	3395926	12.59
OP36776-MB	861453	4.36	3200380	5.42	1851530	6.95	3209686	8.23	3692440	10.86	3382709	12.59
OP36776-BS	850601	4.36	3189700	5.42	1961201	6.95	2984610	8.23	3351570	10.86	3237023	12.59
OP36776-MS	860713	4.36	3015407	5.42	1769903	6.95	3227164	8.23	3606081	10.86	3340845	12.59
OP36776-MSD	895547	4.36	3326090	5.42	1864051	6.95	3204472	8.23	3626863	10.86	3786254	12.59
MC28000-11	779854	4.36	2763539	5.42	1552061	6.95	2643295	8.23	2947952	10.86	2918662	12.59
ZZZZZZ	774145	4.36	2794716	5.42	1722170	6.94	2999602	8.23	3312827	10.86	3301922	12.59
ZZZZZZ	825246	4.36	2994467	5.42	1845632	6.95	3167076	8.23	3580629	10.86	3614283	12.59
ZZZZZZ	697958	4.36	2569020	5.42	1594843	6.95	2723903	8.23	3123529	10.86	3149521	12.59
ZZZZZZ	728533	4.36	2630009	5.42	1623114	6.95	2829492	8.23	3243088	10.86	3236045	12.59
ZZZZZZ	770358	4.36	2798756	5.42	1704904	6.95	2911457	8.23	3320092	10.86	3350463	12.59
MC28046-1	788416	4.36	2888988	5.42	1779060	6.95	3089573	8.23	3599408	10.86	3597031	12.59
ZZZZZZ	808483	4.36	2908689	5.42	1885782	6.95	3096797	8.23	3607097	10.86	3632034	12.59

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC28046
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSI3244-CC3238	**Injection Date:**	02/04/14
Lab File ID:	I87277.D	**Injection Time:**	13:59
Instrument ID:	GCMSI	**Method:**	SW846 8270D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	348846	4.42	766857	5.47	416092	7.02	681994	8.45	425618	11.21	1131835	12.72
Upper Limit [a]	697692	4.92	1533714	5.97	832184	7.52	1363988	8.95	851236	11.71	2263670	13.22
Lower Limit [b]	174423	3.92	383429	4.97	208046	6.52	340997	7.95	212809	10.71	565918	12.22

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP36750-MB	321805	4.42	701611	5.47	376610	7.02	616736	8.45	377390	11.21	1004962	12.72
OP36750-BS	337337	4.42	739134	5.48	399772	7.02	654447	8.45	409132	11.22	1063561	12.72
OP36747-MB	372560	4.42	825977	5.47	445527	7.02	714725	8.45	435083	11.21	1114877	12.72
OP36747-BS	379288	4.42	844915	5.48	452068	7.02	720831	8.45	439688	11.22	1103762	12.72
OP36747-MS	387984	4.42	869729	5.48	464698	7.02	738732	8.45	444800	11.22	1118566	12.72
OP36747-MSD	368050	4.42	813694	5.48	434718	7.02	700939	8.45	423311	11.22	1075052	12.72
MC28051-1	381576	4.42	847155	5.47	452707	7.02	720170	8.44	433560	11.21	1113133	12.72
ZZZZZZ	381027	4.41	831614	5.47	446175	7.02	706703	8.44	428376	11.21	1095745	12.72
ZZZZZZ	365938	4.42	806775	5.47	425840	7.02	672176	8.45	401128	11.21	1026164	12.72
ZZZZZZ	381946	4.42	833235	5.47	440754	7.02	696922	8.45	417355	11.21	1061018	12.72
ZZZZZZ	403264	4.42	885214	5.47	477614	7.02	751037	8.44	449948	11.21	1139908	12.72
ZZZZZZ	385959	4.42	846919	5.47	448794	7.02	717865	8.45	426623	11.21	1064676	12.72
ZZZZZZ	340487	4.42	748566	5.47	403595	7.02	643043	8.44	379720	11.21	951128	12.72
ZZZZZZ	364846	4.42	795755	5.47	421248	7.02	660627	8.44	394204	11.21	995043	12.72
OP36750-MS	345200	4.42	766285	5.48	412005	7.02	658444	8.45	412387	11.22	1051475	12.72
OP36750-MSD	313660	4.42	691110	5.47	368076	7.02	600224	8.45	382633	11.22	967845	12.72
MC28000-4	329503	4.42	726170	5.47	388551	7.02	625639	8.44	383174	11.21	1005006	12.72
ZZZZZZ	346384	4.42	752840	5.47	402301	7.02	648941	8.44	404166	11.21	1058739	12.72
MC28046-1	347008	4.42	752161	5.47	400602	7.02	645027	8.44	397364	11.21	1032211	12.72
ZZZZZZ	610316	4.42	1349025	5.47	736503	7.02	1190786	8.45	779350	11.22	1968375	12.73
ZZZZZZ	591084	4.42	1298339	5.47	718596	7.02	1145875	8.45	760066	11.22	1941496	12.73
ZZZZZZ	597619	4.42	1311865	5.47	721078	7.02	1165553	8.45	777308	11.21	1974636	12.73
ZZZZZZ	342027	4.42	747592	5.47	397671	7.02	642755	8.44	413657	11.21	1042258	12.72
ZZZZZZ	595511	4.42	1314248	5.47	717012	7.02	1156482	8.45	779843	11.22	1973996	12.73
ZZZZZZ	343783	4.42	763438	5.47	419176	7.02	673343	8.44	429194	11.21	1079605	12.72
ZZZZZZ	338141	4.42	725553	5.47	392359	7.02	627607	8.44	412587	11.21	1049424	12.72
ZZZZZZ	358107	4.41	786674	5.47	422455	7.02	668008	8.44	403969	11.21	1001761	12.72

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

Semivolatile Internal Standard Area Summary

Job Number: MC28046
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSI3244-CC3238	**Injection Date:**	02/04/14
Lab File ID:	I87277.D	**Injection Time:**	13:59
Instrument ID:	GCMSI	**Method:**	SW846 8270D BY SIM

Lab	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
Sample ID	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Surrogate Recovery Summary

Job Number: MC28046
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Method: SW846 8270D **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
MC28046-1	F71524.D	21	15	63	67	70	85
OP36776-BS	F71515.D	52	33	100	76	77	96
OP36776-MB	F71514.D	39	27	71	62	68	86
OP36776-MS	F71516.D	49	33	84	77	84	93
OP36776-MSD	F71517.D	49	31	86	75	78	90

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	15-110%
S2 = Phenol-d5	15-110%
S3 = 2,4,6-Tribromophenol	15-110%
S4 = Nitrobenzene-d5	30-130%
S5 = 2-Fluorobiphenyl	30-130%
S6 = Terphenyl-d14	30-130%

Semivolatile Surrogate Recovery Summary

Job Number: MC28046
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Method: SW846 8270D BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC28046-1	I87296.D	58	49	71
OP36750-BS	I87279.D	82	68	84
OP36750-MB	I87278.D	85	73	92
OP36750-MS	I87292.D	75	62	79
OP36750-MSD	I87293.D	81	62	85

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	30-130%
S2 = 2-Fluorobiphenyl	30-130%
S3 = Terphenyl-d14	30-130%

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries

Method Blank Summary

Job Number: MC28046
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36754-MB	BK34501.D	1	02/04/14	NK	02/03/14	OP36754	GBK1140

The QC reported here applies to the following samples: **Method:** SW846 8011

MC28046-1, MC28046-3

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0054	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.011	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	Bromofluorobenzene (S)	92%	36-173%
460-00-4	Bromofluorobenzene (S)	92%	36-173%

Blank Spike Summary

Job Number: MC28046
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36754-BS	BK34502.D	1	02/04/14	NK	02/03/14	OP36754	GBK1140

The QC reported here applies to the following samples: **Method:** SW846 8011

MC28046-1, MC28046-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
96-12-8	1,2-Dibromo-3-chloropropane	0.071	0.091	128	60-140
106-93-4	1,2-Dibromoethane	0.071	0.072	101	60-140

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	Bromofluorobenzene (S)	116%	36-173%
460-00-4	Bromofluorobenzene (S)	116%	36-173%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC28046
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36754-MS	BK34503.D	1	02/04/14	NK	02/03/14	OP36754	GBK1140
OP36754-MSD	BK34504.D	1	02/04/14	NK	02/03/14	OP36754	GBK1140
MC28000-5	BK34505.D	1	02/04/14	NK	02/03/14	OP36754	GBK1140

The QC reported here applies to the following samples: **Method:** SW846 8011

MC28046-1, MC28046-3

CAS No.	Compound	MC28000-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
96-12-8	1,2-Dibromo-3-chloropropane	ND		0.071	0.087	123	0.071	0.095	134	9	64-141/29
106-93-4	1,2-Dibromoethane	ND		0.071	0.065	92	0.071	0.069	97	6	63-163/27

CAS No.	Surrogate Recoveries	MS	MSD	MC28000-5	Limits
460-00-4	Bromofluorobenzene (S)	110%	117%	85%	36-173%
460-00-4	Bromofluorobenzene (S)	115%	118%	95%	36-173%

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: MC28046
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Method: SW846 8011 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]
MC28046-1	BK34514.D	111	102
MC28046-3	BK34515.D	108	106
OP36754-BS	BK34502.D	116	116
OP36754-MB	BK34501.D	92	92
OP36754-MS	BK34503.D	110	115
OP36754-MSD	BK34504.D	117	118

Surrogate Compounds	Recovery Limits
S1 = Bromofluorobenzene (S)	36-173%

(a) Recovery from GC signal #2
(b) Recovery from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC28046
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	GBK1140-ICC1140	**Injection Date:**	02/04/14
Lab File ID:	BK34496.D	**Injection Time:**	08:58
Instrument ID:	GCBK	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.33	4.39

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
ZZZZZZ	BK34499A.D	02/04/14	10:06	4.33	4.40
OP36754-MB	BK34501.D	02/04/14	10:51	4.33	4.39
OP36754-BS	BK34502.D	02/04/14	11:14	4.33	4.39
OP36754-MS	BK34503.D	02/04/14	11:37	4.33	4.39
OP36754-MSD	BK34504.D	02/04/14	11:59	4.33	4.39
MC28000-5	BK34505.D	02/04/14	12:22	4.33	4.39
ZZZZZZ	BK34506.D	02/04/14	12:44	4.33	4.39
ZZZZZZ	BK34507.D	02/04/14	13:07	4.33	4.39
ZZZZZZ	BK34508.D	02/04/14	13:30	4.33	4.39
ZZZZZZ	BK34509.D	02/04/14	13:53	4.33	4.39
ZZZZZZ	BK34510.D	02/04/14	14:15	4.33	4.39

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC28046
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	GBK1140-CC1140	**Injection Date:**	02/04/14
Lab File ID:	BK34511.D	**Injection Time:**	14:38
Instrument ID:	GCBK	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.33	4.40

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
ZZZZZZ	BK34512.D	02/04/14	15:01	4.33	4.39
ZZZZZZ	BK34513.D	02/04/14	15:24	4.33	4.39
MC28046-1	BK34514.D	02/04/14	15:47	4.33	4.40
MC28046-3	BK34515.D	02/04/14	16:10	4.33	4.39
GBK1140-ECC114	BK34516.D	02/04/14	16:32	4.33	4.39

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

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e-Hardcopy 2.0
Automated Report

Technical Report for

Shell Oil

URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana,

SGS Accutest Job Number: MC28118

Sampling Date: 02/03/14



Report to:

AECOM, INC.

Melissa.mansker@aecom.com

ATTN: Melissa Mansker

Total number of pages in report: 150

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

H. (Brad) Madadian
Lab Director

Client Service contact: Jeremy Vienneau 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO (MA00136) MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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Test results relate only to samples analyzed.

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SGS ACCUTEST

November 2, 2016

AECOM
1001 Highlands Plaza Drive West Suite 300
St. Louis, MO 63110

RE: SGS Accutest Job # MC28118

Dear Elizabeth Kunkel

As you are aware, SGS Accutest Inc. - Marlboroug has been conducting an extensive review of data associated with some historical Gas Chromatography-Mass Spectroscopy volatiles analyses. As a result of this review it was determined that some revisions of the original test report for this job were needed. These corrections have been incorporated into the revised report.

Please be assured that corrective actions have been put in place to address this matter and prevent a recurrence.

We apologize for any inconvenience that this issue may have caused. Please don't hesitate to contact us if we can be of further assistance.

Sincerely



H. (Brad) Madadian

Regional Laboratory Director
SGS Accutest Inc. - Marlborough

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY. NN

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Sample Summary

Shell Oil

Job No: MC28118

URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC28118-1	02/03/14	10:30	DMMM	02/05/14	AQ	Ground Water	P59-ROX-020314
MC28118-2	02/03/14	10:50	DMMM	02/05/14	AQ	Equipment Blank	P57-ROX-020314-EB
MC28118-3	02/03/14	11:55	DMMM	02/05/14	AQ	Ground Water	P57-ROX-020314
MC28118-4	02/03/14	14:10	DMMM	02/05/14	AQ	Ground Water	P58-ROX-020314
MC28118-5	02/03/14	00:00	DMMM	02/05/14	AQ	Trip Blank Water	TB-ROX-020314-HCL
MC28118-6	02/03/14	00:00	DMMM	02/05/14	AQ	Trip Blank Water	TB-ROX-020314-ST

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: She O **Job No** MC28 8

Site: URSMOSTL:Roxana Q 4 GW/ 2 562973 0300 900 South Centra **Report Date** /2/20 6 2:29:04 PM

4 Samp e(s), 2 Tr p B ank(s) were co ected on 02/03/20 4 and were rece ved at SGS Accutest New Eng and on 02/05/20 4 proper y preserved, at 4 6 Deg C and ntact These Samp es rece ved a job number of MC28 8 A st ng of the Laboratory Samp e ID, C ent Samp e ID and dates of co ect on are presented n the Resu ts Summary Sect on of th s report -Ch orohexane, Benzeneth o , D benz(a,h)acr d ne, Indene, and Qu no ne were searched n the bra y search and reported on y f detect ons were found

Except as noted be ow, a method spec f ed ca brat ons and qua ty contro performance cr ter a were met for th s job For more nformat on, p ease refer to QC summary pages

Volatiles by GCMS By Method SW846 8260C

Matrix: AQ **Batch ID:** MSV 048

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC28 8-3MS, MC28 8-3MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a
- Matr x Sp ke Recovery(s) for 2-Butanone (MEK), Acetone are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference
- Matr x Sp ke Dup cate Recove y(s) for 2-Butanone (MEK), 2-Hexanone, Acetone are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference
- Bromoform, Carbon d su f de, D ch orod f uoromethane: Cont nu ng Ca brat on outs de of acceptance cr ter a Samp e resu t may be b ased ow
- RPD of MSV 048-BSD for 2-Ch oroethy v ny ether: Outs de contro m ts Assoc ated samp es are non-detect for th s compound
- MSV 048-BS/BSD for 2-Ch oroethy v ny ether: Outs de contro m ts Assoc ated samp es are non-detect for th s compound

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP36790

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- A method b anks for th s batch meet method spec f c cr ter a
- Samp e(s) MC28000-20MS, MC28000-20MSD were used as the QC samp es nd cated
- B ank Sp ke Recovery(s) for Benzo c Ac d, Hexach orocyc opentad ene, Hexach oroethane, Pyr d ne are outs de contro m ts
- Matr x Sp ke Recovery(s) for Hexach orocyc opentad ene, Pyr d ne are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference
- Matr x Sp ke Dup cate Recove y(s) for Hexach orocyc opentad ene are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference
- OP36790-BSD Recovery(s) for Pheno , Benzo c Ac d, Hexach orocyc opentad ene, Hexach oroethane, Pyr d ne are outs de contro m ts
- RPD of OP36790-BSD for Pheno : Outs de contro m ts B ank Sp ke meets program techn ca requ rements
- OP36790-MS/MSD for Benzo c Ac d: Outs de contro m ts B ank Sp ke meets program techn ca requ rements
- MC28 8- for 2-F uoropheno : Outs de contro m ts due to d ut on

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP3679

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- A method b anks for th s batch meet method spec f c cr ter a
- Samp e(s) MC28000-2 MS, MC28000-2 MSD were used as the QC samp es nd cated

Volatiles by GC By Method SW846 8011

Matrix: AQ **Batch ID:** OP36782

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC28000- 4MS, MC28000- 4MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a

SGS Accutest New Eng and cert f es that a ana ys s were performed w th n method spec f cat on It s further recommended that th s report to be used n ts ent rety The Laborato y D rector for SGS Accutest New Eng and or ass gnee as ver f ed by the s gnature on the cover page has author zed the re ease of th s repo t(MC28 8)

Summary of Hits

Job Number: MC28118
Account: Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL
Collected: 02/03/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC28118-1	P59-ROX-020314					
Benzene		15900	500	450	ug/l	SW846 8260C
n-Butylbenzene		16.5 J	100	11	ug/l	SW846 8260C
Ethylbenzene		1860	20	7.5	ug/l	SW846 8260C
Isopropylbenzene		40.9 J	100	13	ug/l	SW846 8260C
Naphthalene		32.1 J	100	16	ug/l	SW846 8260C
n-Propylbenzene		82.4 J	100	12	ug/l	SW846 8260C
Toluene		660	20	9.2	ug/l	SW846 8260C
1,2,4-Trimethylbenzene		621	100	9.3	ug/l	SW846 8260C
1,3,5-Trimethylbenzene		193	100	22	ug/l	SW846 8260C
m,p-Xylene		3790	20	18	ug/l	SW846 8260C
o-Xylene		438	20	8.2	ug/l	SW846 8260C
Xylene (total)		4230	20	8.2	ug/l	SW846 8260C
2,4-Dimethylphenol		147	100	12	ug/l	SW846 8270D
2-Methylphenol		310	100	13	ug/l	SW846 8270D
3&4-Methylphenol		14.2	10	2.1	ug/l	SW846 8270D
Phenol		44.4	5.2	0.53	ug/l	SW846 8270D
Acenaphthene		0.46	0.10	0.071	ug/l	SW846 8270D BY SIM
Anthracene		0.18	0.10	0.095	ug/l	SW846 8270D BY SIM
Benzo(a)anthracene		0.035 J	0.052	0.020	ug/l	SW846 8270D BY SIM
Chrysene		0.046 J	0.10	0.025	ug/l	SW846 8270D BY SIM
Fluoranthene		0.12	0.10	0.042	ug/l	SW846 8270D BY SIM
Fluorene		0.67	0.10	0.10	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene		14.1	0.21	0.051	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		21.4	0.21	0.076	ug/l	SW846 8270D BY SIM
Phenanthrene		1.4	0.052	0.013	ug/l	SW846 8270D BY SIM
Pyrene		0.19	0.10	0.040	ug/l	SW846 8270D BY SIM
MC28118-2	P57-ROX-020314-EB					
Benzene		2.6	0.50	0.45	ug/l	SW846 8260C
Ethylbenzene		0.66 J	1.0	0.38	ug/l	SW846 8260C
m,p-Xylene		8.0	1.0	0.91	ug/l	SW846 8260C
Xylene (total)		8.0	1.0	0.41	ug/l	SW846 8260C
MC28118-3	P57-ROX-020314					
Benzene		261000	500	450	ug/l	SW846 8260C
Ethylbenzene		697 J	1000	380	ug/l	SW846 8260C
3&4-Methylphenol		2.7 J	11	2.1	ug/l	SW846 8270D
Phenol		168	5.3	0.54	ug/l	SW846 8270D
Dibenzofuran		0.67 J	2.1	0.16	ug/l	SW846 8270D
Acenaphthene		0.41	0.11	0.073	ug/l	SW846 8270D BY SIM
Acenaphthylene		0.075 J	0.11	0.052	ug/l	SW846 8270D BY SIM

Summary of Hits

Job Number: MC28118
Account: Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL
Collected: 02/03/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Fluorene		0.62	0.11	0.10	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene		23.4	0.21	0.053	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		31.4	0.21	0.078	ug/l	SW846 8270D BY SIM
Phenanthrene		0.52	0.053	0.013	ug/l	SW846 8270D BY SIM
MC28118-4	**P58-ROX-020314**					
Benzene		496000	2500	2300	ug/l	SW846 8260C
Ethylbenzene		767 J	1000	380	ug/l	SW846 8260C
3&4-Methylphenol		7.3 J	10	2.1	ug/l	SW846 8270D
Phenol		123	26	2.7	ug/l	SW846 8270D
Dibenzofuran		1.6 J	2.1	0.16	ug/l	SW846 8270D
Acenaphthene		0.61	0.10	0.072	ug/l	SW846 8270D BY SIM
Acenaphthylene		0.18	0.10	0.052	ug/l	SW846 8270D BY SIM
Benzo(a)anthracene		0.035 J	0.052	0.020	ug/l	SW846 8270D BY SIM
Benzo(a)pyrene		0.047 J	0.10	0.030	ug/l	SW846 8270D BY SIM
Chrysene		0.079 J	0.10	0.025	ug/l	SW846 8270D BY SIM
Fluoranthene		0.058 J	0.10	0.042	ug/l	SW846 8270D BY SIM
Fluorene		1.1	0.10	0.10	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene		35.3	0.21	0.052	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		47.4	0.21	0.077	ug/l	SW846 8270D BY SIM
Phenanthrene		0.69	0.052	0.013	ug/l	SW846 8270D BY SIM
Pyrene		0.14	0.10	0.040	ug/l	SW846 8270D BY SIM
MC28118-5	**TB-ROX-020314-HCL**					
No hits reported in this sample.						
MC28118-6	**TB-ROX-020314-ST**					
No hits reported in this sample.						

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	P59-ROX-020314		
Lab Sample ID:	MC28118-1	**Date Sampled:**	02/03/14
Matrix:	AQ - Ground Water	**Date Received:**	02/05/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V27815.D	20	02/11/14	AMY	n/a	n/a	MSV1048
Run #2	V27812.D	1000	02/11/14	AMY	n/a	n/a	MSV1048

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	200	56	ug/l	
107-02-8	Acrolein	ND	500	130	ug/l	
107-13-1	Acrylonitrile	ND	100	70	ug/l	
71-43-2	Benzene	15900 [a]	500	450	ug/l	
108-86-1	Bromobenzene	ND	100	8.7	ug/l	
74-97-5	Bromochloromethane	ND	100	13	ug/l	
75-27-4	Bromodichloromethane	ND	20	6.6	ug/l	
75-25-2	Bromoform [b]	ND	20	8.4	ug/l	
74-83-9	Bromomethane	ND	40	30	ug/l	
78-93-3	2-Butanone (MEK)	ND	100	92	ug/l	
104-51-8	n-Butylbenzene	16.5	100	11	ug/l	J
135-98-8	sec-Butylbenzene	ND	100	12	ug/l	
98-06-6	tert-Butylbenzene	ND	100	17	ug/l	
75-15-0	Carbon disulfide [b]	ND	100	15	ug/l	
56-23-5	Carbon tetrachloride	ND	20	12	ug/l	
108-90-7	Chlorobenzene	ND	20	9.7	ug/l	
75-00-3	Chloroethane	ND	40	17	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	100	65	ug/l	
67-66-3	Chloroform	ND	20	10	ug/l	
74-87-3	Chloromethane	ND	40	29	ug/l	
95-49-8	o-Chlorotoluene	ND	100	11	ug/l	
106-43-4	p-Chlorotoluene	ND	100	9.5	ug/l	
124-48-1	Dibromochloromethane	ND	20	6.6	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	20	6.9	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	20	6.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	20	5.3	ug/l	
75-71-8	Dichlorodifluoromethane [b]	ND	40	24	ug/l	
75-34-3	1,1-Dichloroethane	ND	20	7.4	ug/l	
107-06-2	1,2-Dichloroethane	ND	20	7.1	ug/l	
75-35-4	1,1-Dichloroethene	ND	20	13	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	20	11	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	20	11	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P59-ROX-020314		
Lab Sample ID:	MC28118-1	**Date Sampled:**	02/03/14
Matrix:	AQ - Ground Water	**Date Received:**	02/05/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	40	9.1	ug/l	
142-28-9	1,3-Dichloropropane	ND	100	19	ug/l	
594-20-7	2,2-Dichloropropane	ND	100	25	ug/l	
563-58-6	1,1-Dichloropropene	ND	100	13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	10	4.3	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	10	5.7	ug/l	
123-91-1	1,4-Dioxane	ND	500	310	ug/l	
97-63-2	Ethyl methacrylate	ND	100	16	ug/l	
100-41-4	Ethylbenzene	1860	20	7.5	ug/l	
87-68-3	Hexachlorobutadiene	ND	100	25	ug/l	
591-78-6	2-Hexanone	ND	100	78	ug/l	
98-82-8	Isopropylbenzene	40.9	100	13	ug/l	J
99-87-6	p-Isopropyltoluene	ND	100	11	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	20	8.6	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	100	26	ug/l	
74-95-3	Methylene bromide	ND	100	8.6	ug/l	
75-09-2	Methylene chloride	ND	40	8.1	ug/l	
91-20-3	Naphthalene	32.1	100	16	ug/l	J
103-65-1	n-Propylbenzene	82.4	100	12	ug/l	J
100-42-5	Styrene	ND	100	9.8	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	20	9.1	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	10	8.4	ug/l	
127-18-4	Tetrachloroethene	ND	20	12	ug/l	
108-88-3	Toluene	660	20	9.2	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	100	15	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	100	9.1	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	20	19	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	20	9.9	ug/l	
79-01-6	Trichloroethene	ND	20	9.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	20	12	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	100	14	ug/l	
95-63-6	1,2,4-Trimethylbenzene	621	100	9.3	ug/l	
108-67-8	1,3,5-Trimethylbenzene	193	100	22	ug/l	
108-05-4	Vinyl Acetate	ND	100	26	ug/l	
75-01-4	Vinyl chloride	ND	20	12	ug/l	
	m,p-Xylene	3790	20	18	ug/l	
95-47-6	o-Xylene	438	20	8.2	ug/l	
1330-20-7	Xylene (total)	4230	20	8.2	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P59-ROX-020314		
Lab Sample ID:	MC28118-1	**Date Sampled:**	02/03/14
Matrix:	AQ - Ground Water	**Date Received:**	02/05/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%	104%	70-130%
2037-26-5	Toluene-D8	96%	96%	70-130%
460-00-4	4-Bromofluorobenzene	106%	105%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Result is from Run# 2
(b) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P59-ROX-020314		
Lab Sample ID:	MC28118-1	**Date Sampled:**	02/03/14
Matrix:	AQ - Ground Water	**Date Received:**	02/05/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R37028.D	1	02/10/14	WK	02/07/14	OP36790	MSR1365
Run #2	R37054.D	10	02/14/14	KR	02/07/14	OP36790	MSR1366

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2	970 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.2	0.40	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.51	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.34	ug/l	
105-67-9	2,4-Dimethylphenol	147 [a]	100	12	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	310 [a]	100	13	ug/l	
	3&4-Methylphenol	14.2	10	2.1	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.52	ug/l	
100-02-7	4-Nitrophenol	ND	21	0.60	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	44.4	5.2	0.53	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.59	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.33	ug/l	
62-53-3	Aniline	ND	10	0.66	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.2	0.21	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.2	0.88	ug/l	
100-51-6	Benzyl Alcohol	ND	10	0.59	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.2	0.95	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.26	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.2	0.22	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.2	0.24	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.2	0.14	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.2	0.20	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.2	0.67	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.70	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.66	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.2	0.52	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.2	0.40	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.2	0.45	ug/l	

ND = Not detected MDL = Method Detection Limit
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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P59-ROX-020314		
Lab Sample ID:	MC28118-1	**Date Sampled:**	02/03/14
Matrix:	AQ - Ground Water	**Date Received:**	02/05/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.2	0.52	ug/l	
131-11-3	Dimethyl phthalate	ND	5.2	0.52	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.50	ug/l	
118-74-1	Hexachlorobenzene	ND	5.2	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.6	ug/l	
67-72-1	Hexachloroethane	ND	5.2	0.45	ug/l	
78-59-1	Isophorone	ND	5.2	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.29	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.52	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.5	ug/l	
98-95-3	Nitrobenzene	ND	5.2	0.26	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.2	0.52	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.2	0.83	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.2	0.56	ug/l	
110-86-1	Pyridine	ND	10	0.53	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	20%	0% [b]	15-110%
4165-62-2	Phenol-d5	26%	16%	15-110%
118-79-6	2,4,6-Tribromophenol	98%	53%	15-110%
4165-60-0	Nitrobenzene-d5	73%	44%	30-130%
321-60-8	2-Fluorobiphenyl	64%	40%	30-130%
1718-51-0	Terphenyl-d14	96%	54%	30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

(a) Result is from Run# 2
(b) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P59-ROX-020314		
Lab Sample ID:	MC28118-1	**Date Sampled:**	02/03/14
Matrix:	AQ - Ground Water	**Date Received:**	02/05/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I87379.D	1	02/10/14	MR	02/07/14	OP36791	MSI3247
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.46	0.10	0.071	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.051	ug/l	
120-12-7	Anthracene	0.18	0.10	0.095	ug/l	
56-55-3	Benzo(a)anthracene	0.035	0.052	0.020	ug/l	J
50-32-8	Benzo(a)pyrene	ND	0.10	0.030	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.052	0.033	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.028	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.040	ug/l	
218-01-9	Chrysene	0.046	0.10	0.025	ug/l	J
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.033	ug/l	
206-44-0	Fluoranthene	0.12	0.10	0.042	ug/l	
86-73-7	Fluorene	0.67	0.10	0.10	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.032	ug/l	
90-12-0	1-Methylnaphthalene	14.1	0.21	0.051	ug/l	
91-57-6	2-Methylnaphthalene	21.4	0.21	0.076	ug/l	
85-01-8	Phenanthrene	1.4	0.052	0.013	ug/l	
129-00-0	Pyrene	0.19	0.10	0.040	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	68%		30-130%
321-60-8	2-Fluorobiphenyl	55%		30-130%
1718-51-0	Terphenyl-d14	91%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P59-ROX-020314		
Lab Sample ID:	MC28118-1	**Date Sampled:**	02/03/14
Matrix:	AQ - Ground Water	**Date Received:**	02/05/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB54243.D	1	02/07/14	CZ	02/06/14	OP36782	GBB3168
Run #2							

	Initial Volume	Final Volume
Run #1	36.2 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0052	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	132%		36-173%
460-00-4	Bromofluorobenzene (S)	157%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P57-ROX-020314-EB		
Lab Sample ID:	MC28118-2	**Date Sampled:**	02/03/14
Matrix:	AQ - Equipment Blank	**Date Received:**	02/05/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V27811.D	1	02/11/14	AMY	n/a	n/a	MSV1048
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	2.6	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform [a]	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	4.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide [a]	ND	5.0	0.77	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P57-ROX-020314-EB		
Lab Sample ID:	MC28118-2	**Date Sampled:**	02/03/14
Matrix:	AQ - Equipment Blank	**Date Received:**	02/05/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
123-91-1	1,4-Dioxane	ND	25	16	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	0.66	1.0	0.38	ug/l	J
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	3.9	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	8.0	1.0	0.91	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	8.0	1.0	0.41	ug/l	

ND = Not detected MDL = Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P57-ROX-020314-EB		
Lab Sample ID:	MC28118-2	**Date Sampled:**	02/03/14
Matrix:	AQ - Equipment Blank	**Date Received:**	02/05/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		70-130%
2037-26-5	Toluene-D8	95%		70-130%
460-00-4	4-Bromofluorobenzene	104%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P57-ROX-020314-EB		
Lab Sample ID:	MC28118-2	**Date Sampled:**	02/03/14
Matrix:	AQ - Equipment Blank	**Date Received:**	02/05/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R37029.D	1	02/10/14	WK	02/07/14	OP36790	MSR1365
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.3	0.40	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.52	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.35	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	1.3	ug/l	
95-48-7	2-Methylphenol	ND	11	1.4	ug/l	
	3&4-Methylphenol	ND	11	2.1	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.53	ug/l	
100-02-7	4-Nitrophenol	ND	21	0.61	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.3	ug/l	
108-95-2	Phenol	ND	5.3	0.54	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.60	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.33	ug/l	
62-53-3	Aniline	ND	11	0.67	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	0.21	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.3	0.90	ug/l	
100-51-6	Benzyl Alcohol	ND	11	0.61	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	0.97	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.26	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	0.22	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	0.24	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	0.14	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	0.21	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.3	0.69	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.71	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.68	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	0.53	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.3	0.41	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.3	0.46	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P57-ROX-020314-EB		
Lab Sample ID:	MC28118-2	**Date Sampled:**	02/03/14
Matrix:	AQ - Equipment Blank	**Date Received:**	02/05/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.3	0.53	ug/l	
131-11-3	Dimethyl phthalate	ND	5.3	0.53	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.51	ug/l	
118-74-1	Hexachlorobenzene	ND	5.3	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.6	ug/l	
67-72-1	Hexachloroethane	ND	5.3	0.46	ug/l	
78-59-1	Isophorone	ND	5.3	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.29	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.53	ug/l	
100-01-6	4-Nitroaniline	ND	11	4.6	ug/l	
98-95-3	Nitrobenzene	ND	5.3	0.26	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.3	0.53	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	0.85	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.57	ug/l	
110-86-1	Pyridine	ND	11	0.54	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	30%		15-110%
4165-62-2	Phenol-d5	22%		15-110%
118-79-6	2,4,6-Tribromophenol	69%		15-110%
4165-60-0	Nitrobenzene-d5	63%		30-130%
321-60-8	2-Fluorobiphenyl	56%		30-130%
1718-51-0	Terphenyl-d14	93%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P57-ROX-020314-EB		
Lab Sample ID:	MC28118-2	**Date Sampled:**	02/03/14
Matrix:	AQ - Equipment Blank	**Date Received:**	02/05/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I87380.D	1	02/10/14	MR	02/07/14	OP36791	MSI3247
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.11	0.073	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.052	ug/l	
120-12-7	Anthracene	ND	0.11	0.097	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.053	0.021	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.030	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.053	0.033	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.028	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.041	ug/l	
218-01-9	Chrysene	ND	0.11	0.025	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.034	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.043	ug/l	
86-73-7	Fluorene	ND	0.11	0.10	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.032	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.21	0.053	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.21	0.078	ug/l	
85-01-8	Phenanthrene	ND	0.053	0.013	ug/l	
129-00-0	Pyrene	ND	0.11	0.040	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	59%		30-130%
321-60-8	2-Fluorobiphenyl	55%		30-130%
1718-51-0	Terphenyl-d14	88%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P57-ROX-020314-EB		
Lab Sample ID:	MC28118-2	**Date Sampled:**	02/03/14
Matrix:	AQ - Equipment Blank	**Date Received:**	02/05/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB54244.D	1	02/07/14	CZ	02/06/14	OP36782	GBB3168
Run #2							

	Initial Volume	Final Volume
Run #1	35.9 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0053	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	115%		36-173%
460-00-4	Bromofluorobenzene (S)	124%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P57-ROX-020314		
Lab Sample ID:	MC28118-3	**Date Sampled:**	02/03/14
Matrix:	AQ - Ground Water	**Date Received:**	02/05/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V27813.D	1000	02/11/14	AMY	n/a	n/a	MSV1048
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10000	2800	ug/l	
107-02-8	Acrolein	ND	25000	6300	ug/l	
107-13-1	Acrylonitrile	ND	5000	3500	ug/l	
71-43-2	Benzene	261000	500	450	ug/l	
108-86-1	Bromobenzene	ND	5000	440	ug/l	
74-97-5	Bromochloromethane	ND	5000	640	ug/l	
75-27-4	Bromodichloromethane	ND	1000	330	ug/l	
75-25-2	Bromoform [a]	ND	1000	420	ug/l	
74-83-9	Bromomethane	ND	2000	1500	ug/l	
78-93-3	2-Butanone (MEK)	ND	5000	4600	ug/l	
104-51-8	n-Butylbenzene	ND	5000	540	ug/l	
135-98-8	sec-Butylbenzene	ND	5000	580	ug/l	
98-06-6	tert-Butylbenzene	ND	5000	870	ug/l	
75-15-0	Carbon disulfide [a]	ND	5000	770	ug/l	
56-23-5	Carbon tetrachloride	ND	1000	620	ug/l	
108-90-7	Chlorobenzene	ND	1000	480	ug/l	
75-00-3	Chloroethane	ND	2000	840	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5000	3300	ug/l	
67-66-3	Chloroform	ND	1000	500	ug/l	
74-87-3	Chloromethane	ND	2000	1400	ug/l	
95-49-8	o-Chlorotoluene	ND	5000	550	ug/l	
106-43-4	p-Chlorotoluene	ND	5000	480	ug/l	
124-48-1	Dibromochloromethane	ND	1000	330	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1000	350	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1000	300	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1000	260	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	2000	1200	ug/l	
75-34-3	1,1-Dichloroethane	ND	1000	370	ug/l	
107-06-2	1,2-Dichloroethane	ND	1000	350	ug/l	
75-35-4	1,1-Dichloroethene	ND	1000	670	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1000	540	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1000	540	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P57-ROX-020314		
Lab Sample ID:	MC28118-3	**Date Sampled:**	02/03/14
Matrix:	AQ - Ground Water	**Date Received:**	02/05/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2000	450	ug/l	
142-28-9	1,3-Dichloropropane	ND	5000	970	ug/l	
594-20-7	2,2-Dichloropropane	ND	5000	1300	ug/l	
563-58-6	1,1-Dichloropropene	ND	5000	630	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	500	220	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	500	290	ug/l	
123-91-1	1,4-Dioxane	ND	25000	16000	ug/l	
97-63-2	Ethyl methacrylate	ND	5000	810	ug/l	
100-41-4	Ethylbenzene	697	1000	380	ug/l	J
87-68-3	Hexachlorobutadiene	ND	5000	1300	ug/l	
591-78-6	2-Hexanone	ND	5000	3900	ug/l	
98-82-8	Isopropylbenzene	ND	5000	640	ug/l	
99-87-6	p-Isopropyltoluene	ND	5000	550	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1000	430	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5000	1300	ug/l	
74-95-3	Methylene bromide	ND	5000	430	ug/l	
75-09-2	Methylene chloride	ND	2000	410	ug/l	
91-20-3	Naphthalene	ND	5000	790	ug/l	
103-65-1	n-Propylbenzene	ND	5000	590	ug/l	
100-42-5	Styrene	ND	5000	490	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1000	460	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	500	420	ug/l	
127-18-4	Tetrachloroethene	ND	1000	610	ug/l	
108-88-3	Toluene	ND	1000	460	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5000	760	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5000	450	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1000	940	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1000	490	ug/l	
79-01-6	Trichloroethene	ND	1000	450	ug/l	
75-69-4	Trichlorofluoromethane	ND	1000	610	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5000	700	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5000	470	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5000	1100	ug/l	
108-05-4	Vinyl Acetate	ND	5000	1300	ug/l	
75-01-4	Vinyl chloride	ND	1000	610	ug/l	
	m,p-Xylene	ND	1000	910	ug/l	
95-47-6	o-Xylene	ND	1000	410	ug/l	
1330-20-7	Xylene (total)	ND	1000	410	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P57-ROX-020314		
Lab Sample ID:	MC28118-3	**Date Sampled:**	02/03/14
Matrix:	AQ - Ground Water	**Date Received:**	02/05/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		70-130%
2037-26-5	Toluene-D8	94%		70-130%
460-00-4	4-Bromofluorobenzene	105%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P57-ROX-020314		
Lab Sample ID:	MC28118-3	**Date Sampled:**	02/03/14
Matrix:	AQ - Ground Water	**Date Received:**	02/05/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R37030.D	1	02/10/14	WK	02/07/14	OP36790	MSR1365
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.3	0.40	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.52	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.35	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	1.3	ug/l	
95-48-7	2-Methylphenol	ND	11	1.4	ug/l	
	3&4-Methylphenol	2.7	11	2.1	ug/l	J
88-75-5	2-Nitrophenol	ND	11	0.53	ug/l	
100-02-7	4-Nitrophenol	ND	21	0.61	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.3	ug/l	
108-95-2	Phenol	168	5.3	0.54	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.60	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.33	ug/l	
62-53-3	Aniline	ND	11	0.67	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	0.21	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.3	0.90	ug/l	
100-51-6	Benzyl Alcohol	ND	11	0.61	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	0.97	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.26	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	0.22	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	0.24	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	0.14	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	0.21	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.3	0.69	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.71	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.68	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	0.53	ug/l	
132-64-9	Dibenzofuran	0.67	2.1	0.16	ug/l	J
84-74-2	Di-n-butyl phthalate	ND	5.3	0.41	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.3	0.46	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P57-ROX-020314		
Lab Sample ID:	MC28118-3	**Date Sampled:**	02/03/14
Matrix:	AQ - Ground Water	**Date Received:**	02/05/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.3	0.53	ug/l	
131-11-3	Dimethyl phthalate	ND	5.3	0.53	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.51	ug/l	
118-74-1	Hexachlorobenzene	ND	5.3	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.6	ug/l	
67-72-1	Hexachloroethane	ND	5.3	0.46	ug/l	
78-59-1	Isophorone	ND	5.3	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.29	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.53	ug/l	
100-01-6	4-Nitroaniline	ND	11	4.6	ug/l	
98-95-3	Nitrobenzene	ND	5.3	0.26	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.3	0.53	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	0.85	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.57	ug/l	
110-86-1	Pyridine	ND	11	0.54	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%		15-110%
4165-62-2	Phenol-d5	28%		15-110%
118-79-6	2,4,6-Tribromophenol	87%		15-110%
4165-60-0	Nitrobenzene-d5	81%		30-130%
321-60-8	2-Fluorobiphenyl	73%		30-130%
1718-51-0	Terphenyl-d14	94%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

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E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P57-ROX-020314		
Lab Sample ID:	MC28118-3	**Date Sampled:**	02/03/14
Matrix:	AQ - Ground Water	**Date Received:**	02/05/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I87381.D	1	02/10/14	MR	02/07/14	OP36791	MSI3247
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.41	0.11	0.073	ug/l	
208-96-8	Acenaphthylene	0.075	0.11	0.052	ug/l	J
120-12-7	Anthracene	ND	0.11	0.097	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.053	0.021	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.030	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.053	0.033	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.028	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.041	ug/l	
218-01-9	Chrysene	ND	0.11	0.025	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.034	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.043	ug/l	
86-73-7	Fluorene	0.62	0.11	0.10	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.032	ug/l	
90-12-0	1-Methylnaphthalene	23.4	0.21	0.053	ug/l	
91-57-6	2-Methylnaphthalene	31.4	0.21	0.078	ug/l	
85-01-8	Phenanthrene	0.52	0.053	0.013	ug/l	
129-00-0	Pyrene	ND	0.11	0.040	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	74%		30-130%
321-60-8	2-Fluorobiphenyl	69%		30-130%
1718-51-0	Terphenyl-d14	89%		30-130%

ND = Not detected MDL = Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P57-ROX-020314		
Lab Sample ID:	MC28118-3	**Date Sampled:**	02/03/14
Matrix:	AQ - Ground Water	**Date Received:**	02/05/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB54245.D	1	02/07/14	CZ	02/06/14	OP36782	GBB3168
Run #2							

	Initial Volume	Final Volume
Run #1	35.8 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0053	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	108%		36-173%
460-00-4	Bromofluorobenzene (S)	140%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P58-ROX-020314		
Lab Sample ID:	MC28118-4	**Date Sampled:**	02/03/14
Matrix:	AQ - Ground Water	**Date Received:**	02/05/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V27814.D	1000	02/11/14	AMY	n/a	n/a	MSV1048
Run #2	V27816.D	5000	02/11/14	AMY	n/a	n/a	MSV1048

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10000	2800	ug/l	
107-02-8	Acrolein	ND	25000	6300	ug/l	
107-13-1	Acrylonitrile	ND	5000	3500	ug/l	
71-43-2	Benzene	496000 [a]	2500	2300	ug/l	
108-86-1	Bromobenzene	ND	5000	440	ug/l	
74-97-5	Bromochloromethane	ND	5000	640	ug/l	
75-27-4	Bromodichloromethane	ND	1000	330	ug/l	
75-25-2	Bromoform [b]	ND	1000	420	ug/l	
74-83-9	Bromomethane	ND	2000	1500	ug/l	
78-93-3	2-Butanone (MEK)	ND	5000	4600	ug/l	
104-51-8	n-Butylbenzene	ND	5000	540	ug/l	
135-98-8	sec-Butylbenzene	ND	5000	580	ug/l	
98-06-6	tert-Butylbenzene	ND	5000	870	ug/l	
75-15-0	Carbon disulfide [b]	ND	5000	770	ug/l	
56-23-5	Carbon tetrachloride	ND	1000	620	ug/l	
108-90-7	Chlorobenzene	ND	1000	480	ug/l	
75-00-3	Chloroethane	ND	2000	840	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5000	3300	ug/l	
67-66-3	Chloroform	ND	1000	500	ug/l	
74-87-3	Chloromethane	ND	2000	1400	ug/l	
95-49-8	o-Chlorotoluene	ND	5000	550	ug/l	
106-43-4	p-Chlorotoluene	ND	5000	480	ug/l	
124-48-1	Dibromochloromethane	ND	1000	330	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1000	350	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1000	300	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1000	260	ug/l	
75-71-8	Dichlorodifluoromethane [b]	ND	2000	1200	ug/l	
75-34-3	1,1-Dichloroethane	ND	1000	370	ug/l	
107-06-2	1,2-Dichloroethane	ND	1000	350	ug/l	
75-35-4	1,1-Dichloroethene	ND	1000	670	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1000	540	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1000	540	ug/l	

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RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P58-ROX-020314		
Lab Sample ID:	MC28118-4	**Date Sampled:**	02/03/14
Matrix:	AQ - Ground Water	**Date Received:**	02/05/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2000	450	ug/l	
142-28-9	1,3-Dichloropropane	ND	5000	970	ug/l	
594-20-7	2,2-Dichloropropane	ND	5000	1300	ug/l	
563-58-6	1,1-Dichloropropene	ND	5000	630	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	500	220	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	500	290	ug/l	
123-91-1	1,4-Dioxane	ND	25000	16000	ug/l	
97-63-2	Ethyl methacrylate	ND	5000	810	ug/l	
100-41-4	Ethylbenzene	767	1000	380	ug/l	J
87-68-3	Hexachlorobutadiene	ND	5000	1300	ug/l	
591-78-6	2-Hexanone	ND	5000	3900	ug/l	
98-82-8	Isopropylbenzene	ND	5000	640	ug/l	
99-87-6	p-Isopropyltoluene	ND	5000	550	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1000	430	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5000	1300	ug/l	
74-95-3	Methylene bromide	ND	5000	430	ug/l	
75-09-2	Methylene chloride	ND	2000	410	ug/l	
91-20-3	Naphthalene	ND	5000	790	ug/l	
103-65-1	n-Propylbenzene	ND	5000	590	ug/l	
100-42-5	Styrene	ND	5000	490	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1000	460	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	500	420	ug/l	
127-18-4	Tetrachloroethene	ND	1000	610	ug/l	
108-88-3	Toluene	ND	1000	460	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5000	760	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5000	450	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1000	940	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1000	490	ug/l	
79-01-6	Trichloroethene	ND	1000	450	ug/l	
75-69-4	Trichlorofluoromethane	ND	1000	610	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5000	700	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5000	470	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5000	1100	ug/l	
108-05-4	Vinyl Acetate	ND	5000	1300	ug/l	
75-01-4	Vinyl chloride	ND	1000	610	ug/l	
	m,p-Xylene	ND	1000	910	ug/l	
95-47-6	o-Xylene	ND	1000	410	ug/l	
1330-20-7	Xylene (total)	ND	1000	410	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P58-ROX-020314		
Lab Sample ID:	MC28118-4	**Date Sampled:**	02/03/14
Matrix:	AQ - Ground Water	**Date Received:**	02/05/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%	106%	70-130%
2037-26-5	Toluene-D8	94%	95%	70-130%
460-00-4	4-Bromofluorobenzene	104%	103%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Result is from Run# 2
(b) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P58-ROX-020314		
Lab Sample ID:	MC28118-4	**Date Sampled:**	02/03/14
Matrix:	AQ - Ground Water	**Date Received:**	02/05/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R37031.D	1	02/10/14	WK	02/07/14	OP36790	MSR1365
Run #2	R37055.D	5	02/14/14	KR	02/07/14	OP36790	MSR1366

	Initial Volume	Final Volume
Run #1	960 ml	1.0 ml
Run #2	960 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.2	0.40	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.51	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.34	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	ND	10	1.3	ug/l	
	3&4-Methylphenol	7.3	10	2.1	ug/l	J
88-75-5	2-Nitrophenol	ND	10	0.52	ug/l	
100-02-7	4-Nitrophenol	ND	21	0.61	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	123 [a]	26	2.7	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.60	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.33	ug/l	
62-53-3	Aniline	ND	10	0.66	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.2	0.21	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.2	0.89	ug/l	
100-51-6	Benzyl Alcohol	ND	10	0.60	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.2	0.96	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.26	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.2	0.22	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.2	0.24	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.2	0.14	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.2	0.21	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.2	0.68	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.70	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.67	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.2	0.52	ug/l	
132-64-9	Dibenzofuran	1.6	2.1	0.16	ug/l	J
84-74-2	Di-n-butyl phthalate	ND	5.2	0.40	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.2	0.45	ug/l	

ND = Not detected MDL = Method Detection Limit
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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P58-ROX-020314		
Lab Sample ID:	MC28118-4	**Date Sampled:**	02/03/14
Matrix:	AQ - Ground Water	**Date Received:**	02/05/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.2	0.52	ug/l	
131-11-3	Dimethyl phthalate	ND	5.2	0.52	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.51	ug/l	
118-74-1	Hexachlorobenzene	ND	5.2	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.6	ug/l	
67-72-1	Hexachloroethane	ND	5.2	0.46	ug/l	
78-59-1	Isophorone	ND	5.2	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.29	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.52	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.5	ug/l	
98-95-3	Nitrobenzene	ND	5.2	0.26	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.2	0.52	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.2	0.84	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.2	0.56	ug/l	
110-86-1	Pyridine	ND	10	0.54	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	34%	19%	15-110%
4165-62-2	Phenol-d5	29%	18%	15-110%
118-79-6	2,4,6-Tribromophenol	94%	54%	15-110%
4165-60-0	Nitrobenzene-d5	67%	39%	30-130%
321-60-8	2-Fluorobiphenyl	63%	40%	30-130%
1718-51-0	Terphenyl-d14	90%	54%	30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
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E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P58-ROX-020314		
Lab Sample ID:	MC28118-4	**Date Sampled:**	02/03/14
Matrix:	AQ - Ground Water	**Date Received:**	02/05/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I87382.D	1	02/10/14	MR	02/07/14	OP36791	MSI3247
Run #2							

	Initial Volume	Final Volume
Run #1	960 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.61	0.10	0.072	ug/l	
208-96-8	Acenaphthylene	0.18	0.10	0.052	ug/l	
120-12-7	Anthracene	ND	0.10	0.096	ug/l	
56-55-3	Benzo(a)anthracene	0.035	0.052	0.020	ug/l	J
50-32-8	Benzo(a)pyrene	0.047	0.10	0.030	ug/l	J
205-99-2	Benzo(b)fluoranthene	ND	0.052	0.033	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.028	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.040	ug/l	
218-01-9	Chrysene	0.079	0.10	0.025	ug/l	J
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.033	ug/l	
206-44-0	Fluoranthene	0.058	0.10	0.042	ug/l	J
86-73-7	Fluorene	1.1	0.10	0.10	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.032	ug/l	
90-12-0	1-Methylnaphthalene	35.3	0.21	0.052	ug/l	
91-57-6	2-Methylnaphthalene	47.4	0.21	0.077	ug/l	
85-01-8	Phenanthrene	0.69	0.052	0.013	ug/l	
129-00-0	Pyrene	0.14	0.10	0.040	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	61%		30-130%
321-60-8	2-Fluorobiphenyl	61%		30-130%
1718-51-0	Terphenyl-d14	85%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P58-ROX-020314		
Lab Sample ID:	MC28118-4	**Date Sampled:**	02/03/14
Matrix:	AQ - Ground Water	**Date Received:**	02/05/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB54247.D	1	02/07/14	CZ	02/06/14	OP36782	GBB3168
Run #2							

	Initial Volume	Final Volume
Run #1	35.0 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0054	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	128%		36-173%
460-00-4	Bromofluorobenzene (S)	122%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-020314-HCL		
Lab Sample ID:	MC28118-5	**Date Sampled:**	02/03/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	02/05/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V27810.D	1	02/11/14	AMY	n/a	n/a	MSV1048
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform [a]	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	4.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide [a]	ND	5.0	0.77	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-020314-HCL		
Lab Sample ID:	MC28118-5	**Date Sampled:**	02/03/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	02/05/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
123-91-1	1,4-Dioxane	ND	25	16	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	3.9	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.91	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-020314-HCL		
Lab Sample ID:	MC28118-5	**Date Sampled:**	02/03/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	02/05/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		70-130%
2037-26-5	Toluene-D8	96%		70-130%
460-00-4	4-Bromofluorobenzene	106%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-020314-ST		
Lab Sample ID:	MC28118-6	**Date Sampled:**	02/03/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	02/05/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB54248.D	1	02/07/14	CZ	02/06/14	OP36782	GBB3168
Run #2							

	Initial Volume	Final Volume
Run #1	35.6 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0053	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	126%		36-173%
460-00-4	Bromofluorobenzene (S)	128%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

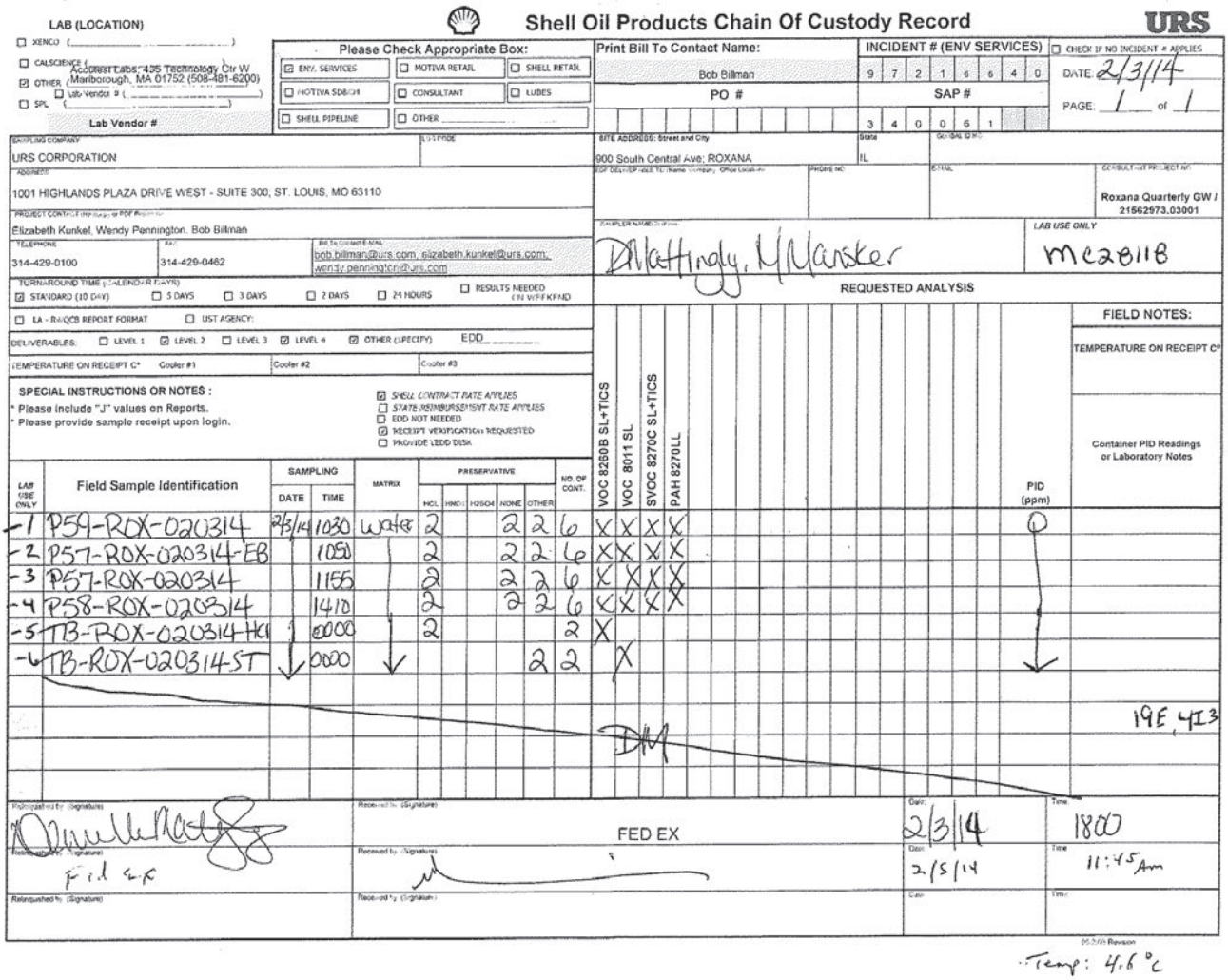
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- REPROC Form: Reprocessed/Corrected Data
- Sample Tracking Chronicle
- Internal Chain of Custody



LAB (LOCATION)

☐ XENCO ( )
☐ CALSCIENCE ( )
☑ OTHER (Accutest Labs, 435 Technology Ctr W Marlborough, MA 01752 (508-481-6200))
☐ Lab Vendor # ( )
☐ SPL ( )

Lab Vendor #

Shell Oil Products Chain Of Custody Record

URS

Please Check Appropriate Box:

☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SDB/OH ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Bob Billman

PO #

INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0

SAP #: 3 4 0 0 6 1

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 2/3/14

PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION

LOG CODE:

SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA

State: IL

GLOBAL ID NO.:

ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300, ST. LOUIS, MO 63110

EDF DELIVERABLE TO (Name, Company, Office Location):

PHONE NO.:

EMAIL:

CONSULTANT PROJECT NO.: Roxana Quarterly GW / 21562973.03001

PROJECT CONTACT (Hardcopy or PDF Report to): Elizabeth Kunkel, Wendy Pennington, Bob Billman

TELEPHONE: 314-429-0100

FAX: 314-429-0462

Bill To Contact E-MAIL: bob.billman@urs.com; elizabeth.kunkel@urs.com; wendy.pennington@urs.com

SAMPLER NAME(S) (Print): DMattingly, MMansker

LAB USE ONLY: MC28118

TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (10 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☑ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☑ OTHER (SPECIFY) EDD

TEMPERATURE ON RECEIPT C°: Cooler #1 Cooler #2 Cooler #3

SPECIAL INSTRUCTIONS OR NOTES:
* Please include "J" values on Reports.
* Please provide sample receipt upon login.

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8260B SL+TICS	VOC 8011 SL	SVOC 8270C SL+TICS	PAH 8270LL	PID (ppm)	Container PID Readings or Laboratory Notes
-1	P59-ROX-020314	2/3/14	1030	water	2			2	2	6	X	X	X	X	0	
-2	P57-ROX-020314-EB		1050		2			2	2	6	X	X	X	X		
-3	P57-ROX-020314		1155		2			2	2	6	X	X	X	X		
-4	P58-ROX-020314		1410		2			2	2	6	X	X	X	X		
-5	TB-ROX-020314-HCl		0000		2					2	X					
-6	TB-ROX-020314-ST		0000						2	2		X				

19E, 4I3

DM

Relinquished by (Signature)	Received by (Signature)	Date	Time
[signature]	FED EX	2/3/14	1800
Fed Ex	[signature]	2/5/14	11:45 Am

05-2/05 Revision

Temp: 4.6 °C

5.1

5

MC28118: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC28118 **Client:** URS **Immediate Client Services Action Required:** No

Date / Time Received: 2/5/2014 **Delivery Method:** **Client Service Action Required at Login:** No

Project: ROXANA,IL/21562973 **No. Coolers:** 1 **Airbill #'s:**

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Infared gun		
3. Cooler media:	Ice (bag)		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

Marlborough, MA
www/accutest.com

5.1

5

MC28118: Chain of Custody
Page 2 of 2

Job Number: MC28118 **Sample:** MSV1019-ICC1019
Account: SHELLWIC Shell Oil **Lab FileID:** V26938.D
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL


```
                        Response Factor Report  MSV

 Method       : O:\msv\1\methods\v140107wx.m (RTE Integrator)
 Title        : SW-846 Method 8260
 Last Update  : Mon Oct 12 12:03:49 2015
 Response via : Initial Calibration

 Calibration Files
 0.25=v26932.d    0.5 =v26933.d    1   =v26934.d    2   =v26935.d
 5   =v26936.d    10  =v26937.d    50  =v26938.d    100 =v26939.d
 200 =v26940.d    400 =v26942.d        =                =

 Compound
             0.25  0.5   1     2     5     10    50    100   200   400    Avg    %RSD
 ------------------------------------------------------------------------------

 1) I   tert butyl alcohol-d9 -----------------ISTD----------------------
 2)  Ethanol
                             0.166 0.141 0.140 0.070 0.095 0.070 0.077  0.108   36.81
            ---- Linear regression ----  Coefficient =  0.9924
              Response Ratio = 0.07206 + 0.07518 *A


 3) I   pentafluorobenzene    -----------------ISTD----------------------
 4)  chloroethane
                         0.708 0.546 0.470 0.438 0.407 0.399 0.368 0.311  0.456   27.04
            ---- Linear regression ----  Coefficient =  0.9911
              Response Ratio = 0.00673 + 0.37855 *A

-------------------------------------------------------------------------------
(#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          v140107wx.m        Mon Oct 12 12:04:54 2015
```

Initial Calibration Verification

Job Number: MC28118 **Sample:** MSV1019-ICV1019
Account: SHELLWIC Shell Oil **Lab FileID:** V26944.D
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Evaluate Continuing Calibration Report

Data File : O:\msv\1\databackup\v140107\v26944.d Vial: 22
Acq On : 7 Jan 2014 7:05 pm Operator: amym
Sample : icv1019-50 Inst : MSV
Misc : MS30921,MSV1019,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : O:\msv\1\methods\v140107wx.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Oct 12 12:03:49 2015
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	tert butyl alcohol-d9	1.000	1.000	0.0	110	-0.01	3.51
		Amount	Calc.	%Drift			
2 p	Ethanol	5000.000	6281.655	-25.6#	160	0.01	2.50
		AvgRF	CCRF	%Dev			
3 I	pentafluorobenzene	1.000	1.000	0.0	113	0.00	6.55
		Amount	Calc.	%Drift			
4 p	chloroethane	50.000	55.636	-11.3	119	0.00	2.15

(#) = Out of Range SPCC's out = 0 CCC's out = 0
v26938.d v140107wx.m Mon Oct 12 12:05:26 2015

Continuing Calibration Summary

Job Number: MC28118 **Sample:** MSV1048-CC1019
Account: SHELLWIC Shell Oil **Lab FileID:** V27805.D
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Evaluate Continuing Calibration Report

Data File : O:\msv\1\databackup\v140211\v27805.d Vial: 1
Acq On : 11 Feb 2014 9:26 am Operator: amym
Sample : cc1019-50 Inst : MSV
Misc : MS31105,MSV1048,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : O:\msv\1\methods\v140107wx.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Oct 12 12:03:49 2015
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	tert butyl alcohol-d9	1.000	1.000	0.0	100	-0.02	3.50
		Amount	Calc.	%Drift			
2 p	Ethanol	5000.000	6162.223	-23.2#	143	0.00	2.50
		AvgRF	CCRF	%Dev			
3 I	pentafluorobenzene	1.000	1.000	0.0	90	-0.02	6.54
		Amount	Calc.	%Drift			
4 p	chloroethane	50.000	49.281	1.4	84	0.00	2.15

(#) = Out of Range SPCC's out = 0 CCC's out = 0
v26938.d v140107wx.m Sat Nov 21 14:59:06 2015

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26932.d
Acq On : 7 Jan 2014 12:30 pm
Operator : amym
Sample : ic1019-0.25
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 12 11:50:29 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

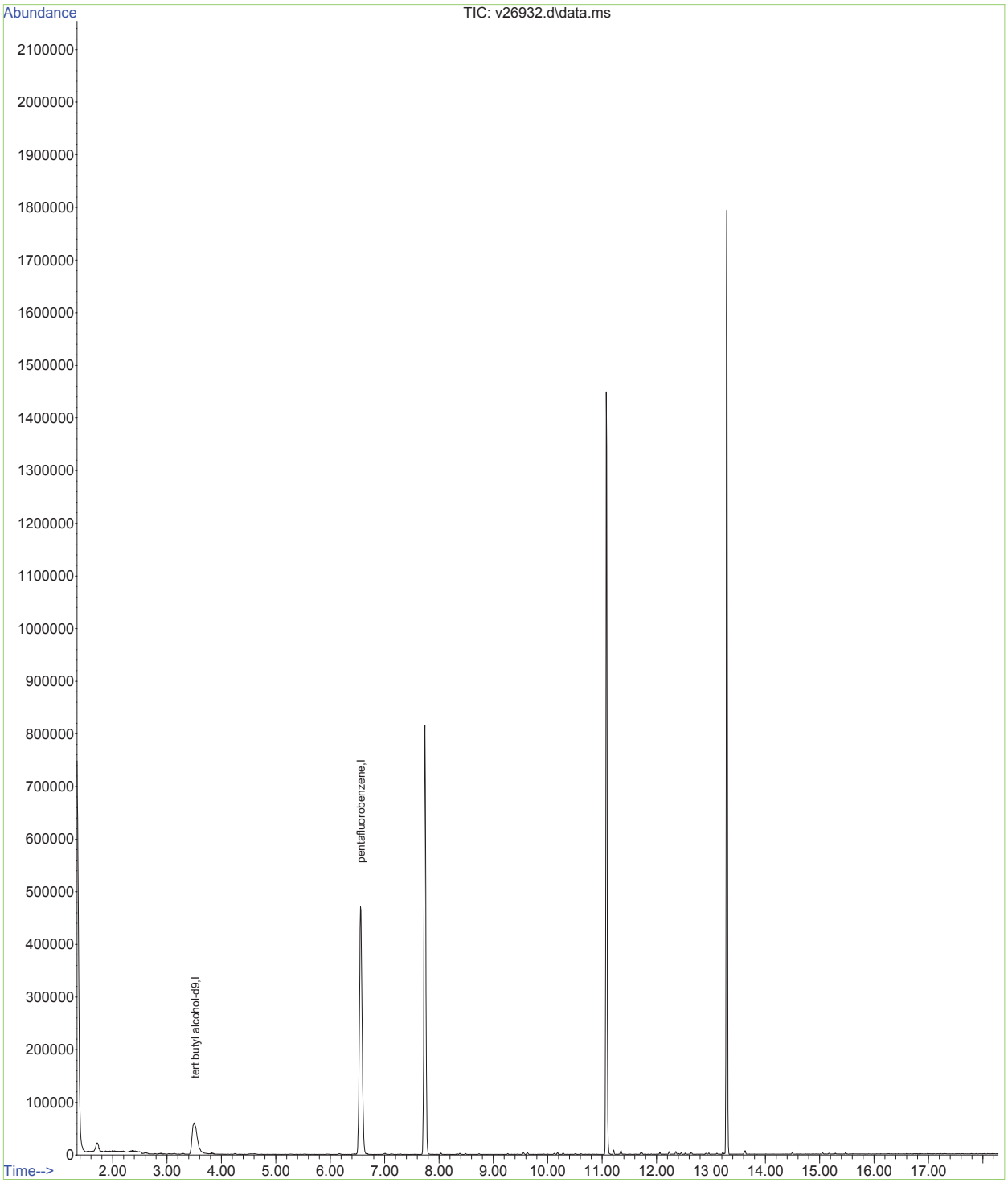
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.522	65	168440	500.00	ug/L	0.00
3) pentafluorobenzene	6.564	168	534929	50.00	ug/L	0.00

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msv\1\databackup\v140107\
Data File : v26932.d
Acq On : 7 Jan 2014 12:30 pm
Operator : amym
Sample : ic1019-0.25
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 12 11:50:29 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Data Path : O:\msv\1\databackup\v140107\
Data File : v26933.d
Acq On : 7 Jan 2014 12:56 pm
Operator : amym
Sample : ic1019-0.5
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

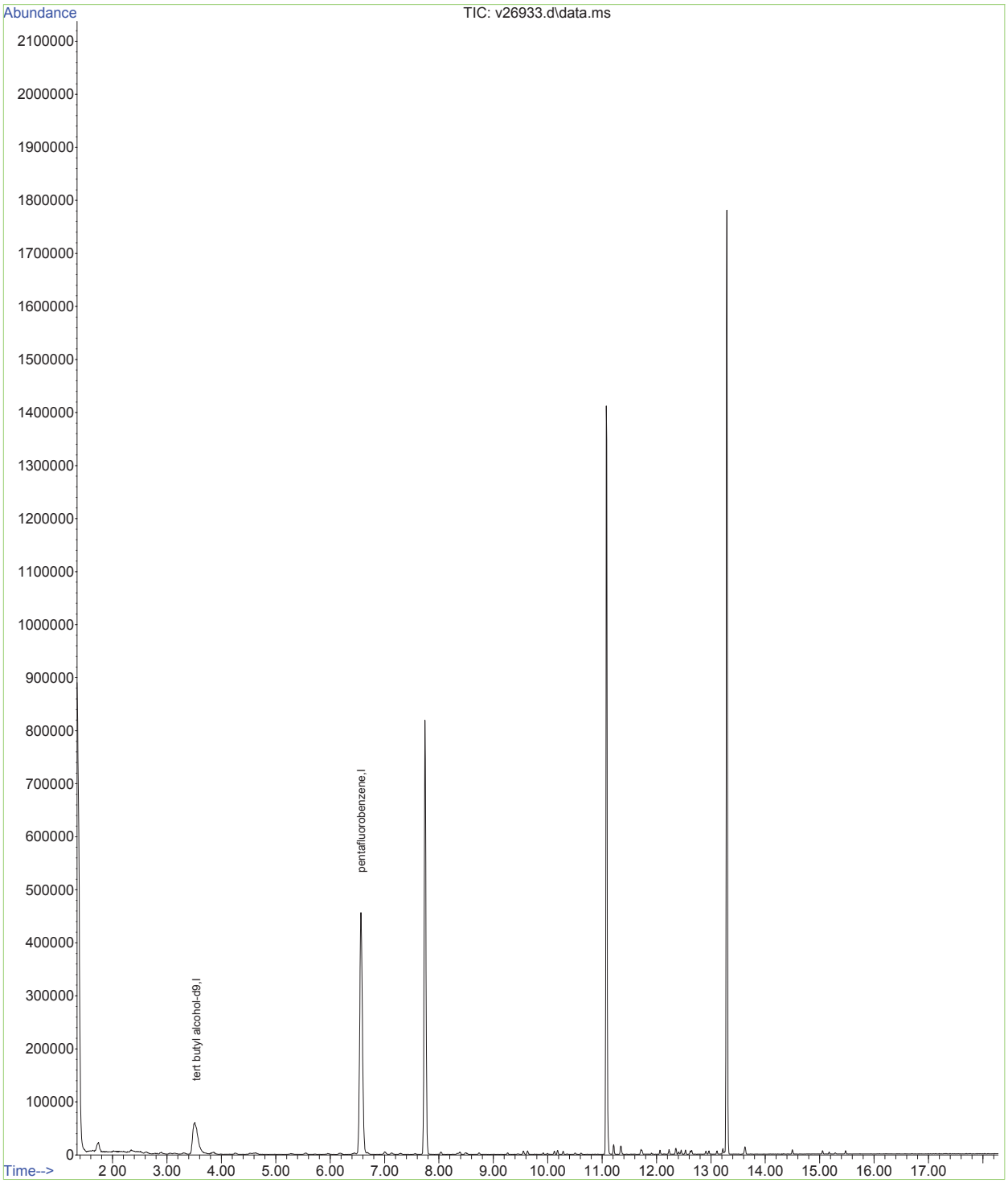
Quant Time: Oct 12 11:50:59 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.537	65	168993	500.00	ug/L	0.01
3) pentafluorobenzene	6.570	168	523768	50.00	ug/L	0.01
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msv\1\databackup\v140107\
Data File : v26933.d
Acq On : 7 Jan 2014 12:56 pm
Operator : amym
Sample : ic1019-0.5
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 12 11:50:59 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26934.d
Acq On : 7 Jan 2014 1:22 pm
Operator : amym
Sample : ic1019-1
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

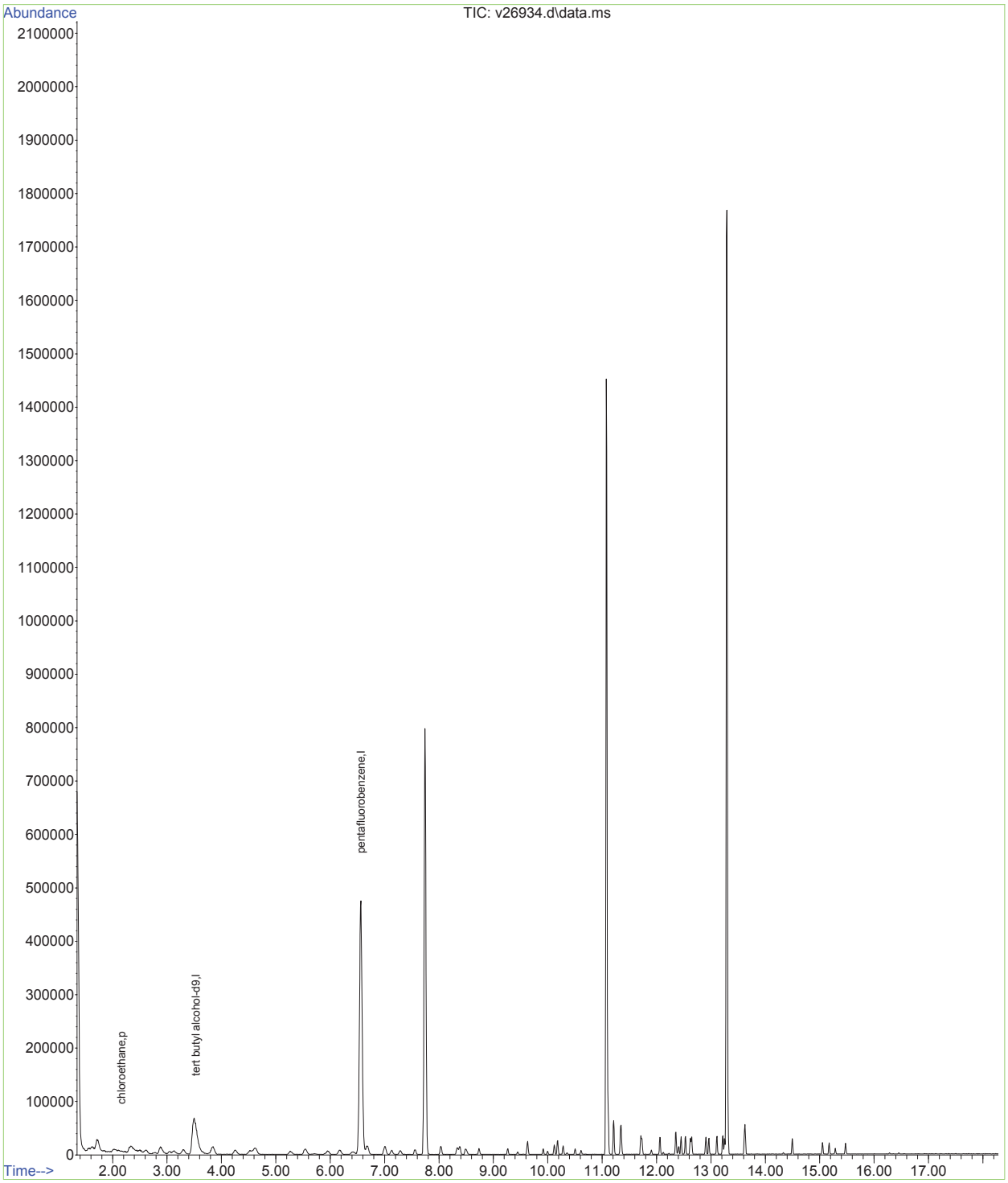
Quant Time: Oct 12 11:52:02 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.527	65	169438	500.00	ug/L	0.00
3) pentafluorobenzene	6.565	168	527887	50.00	ug/L	0.00
Target Compounds						Qvalue
4) chloroethane	2.159	64	7471m	1.74	ug/L	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msv\1\databackup\v140107\
Data File : v26934.d
Acq On : 7 Jan 2014 1:22 pm
Operator : amym
Sample : ic1019-1
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

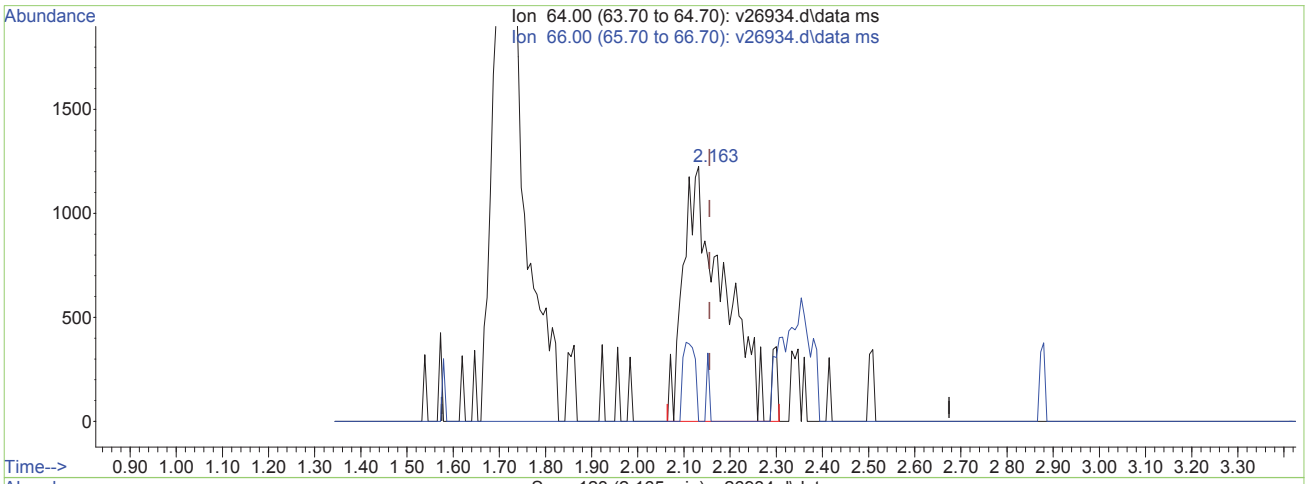
Quant Time: Oct 12 11:52:02 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

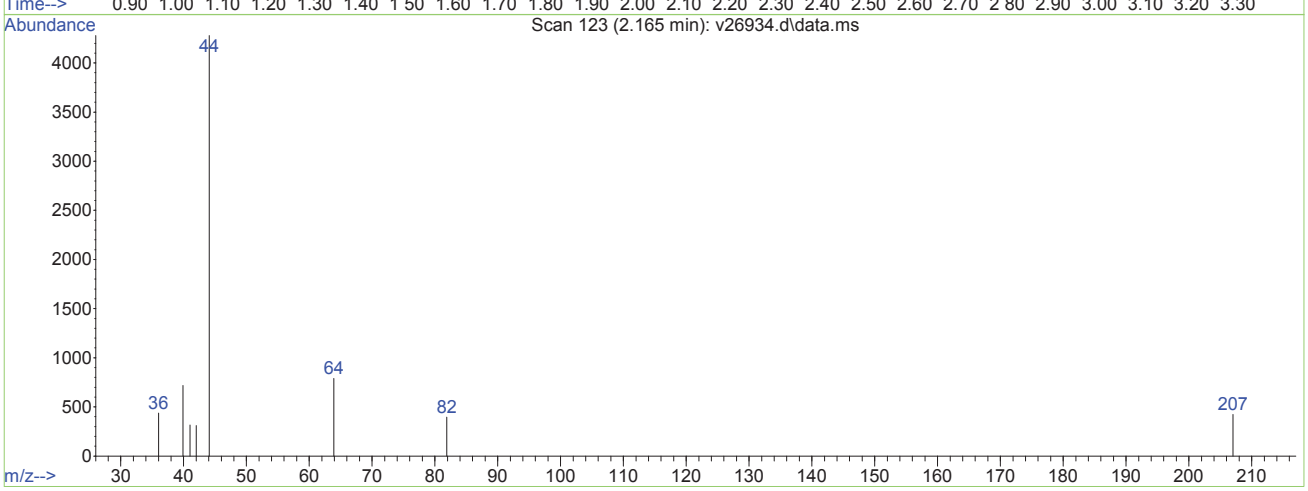


Quantitation Report (Qedit)

```
Data Path : O:\msv\1\databackup\v140107\
Data File : v26934.d
Acq On    :  7 Jan 2014   1:22 pm
Operator  : amym
Sample    : ic1019-1
Misc      : MS30921,MSV1019,,,,5,1
ALS Vial  : 9   Sample Multiplier: 1

Quant Time: Oct 12 11:49:53 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title  : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration
```





TIC: v26934.d\data.ms

(4) chloroethane (p)

2.163min (+0.008) 1.81ug/L

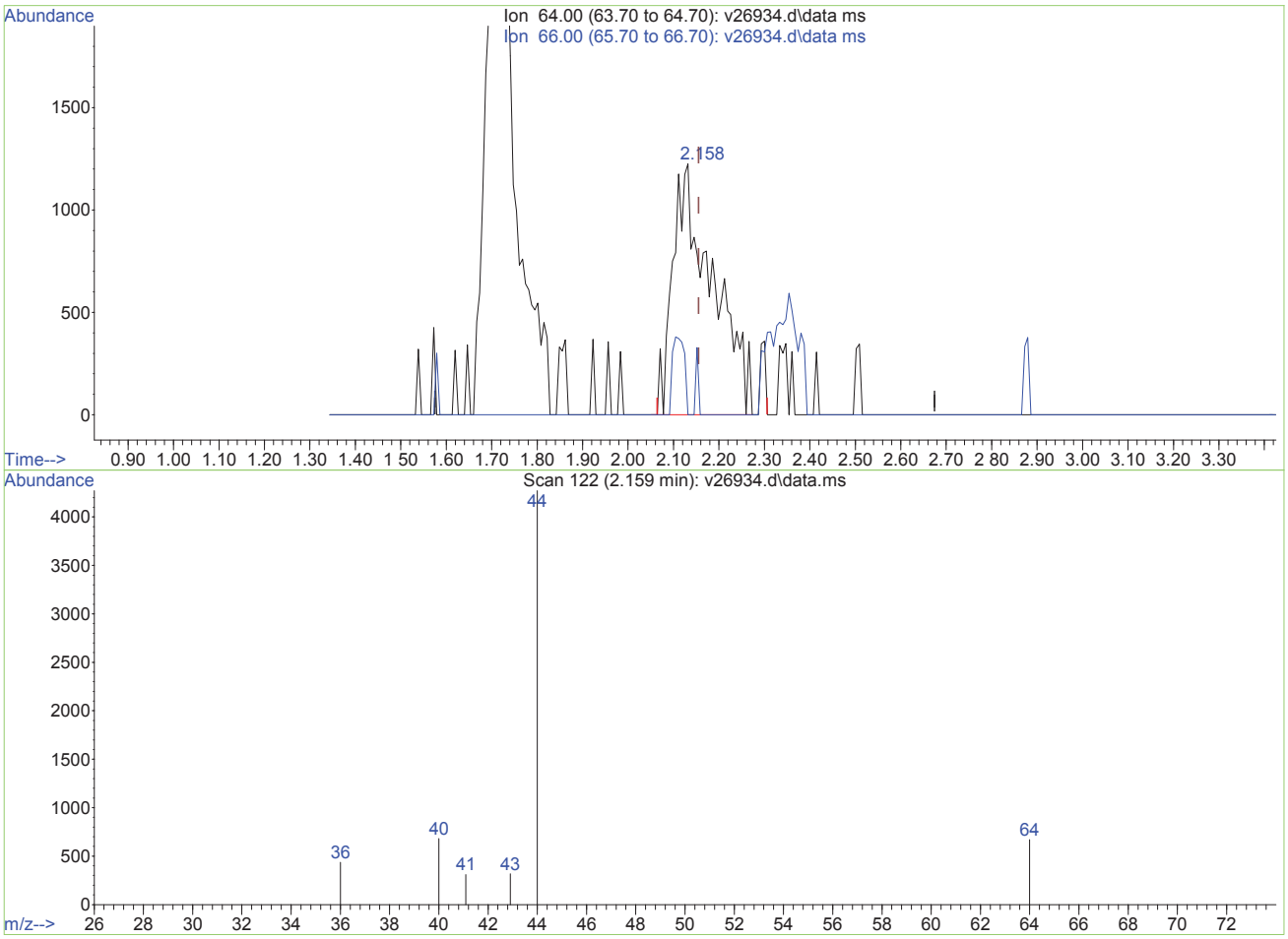
response 7756

Ion	Exp%	Act%
64.00	100	100
66.00	34.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26934.d
Acq On : 7 Jan 2014 1:22 pm
Operator : amym
Sample : ic1019-1
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 12 11:49:53 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26934.d\data.ms

(4) chloroethane (p)

2.159min (+0.003) 1.74ug/L m

response 7471

Ion	Exp%	Act%
64.00	100	100
66.00	34.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26934.D edits: chloroethane

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26935.d
Acq On : 7 Jan 2014 1:49 pm
Operator : amym
Sample : ic1019-2
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 12 11:52:51 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

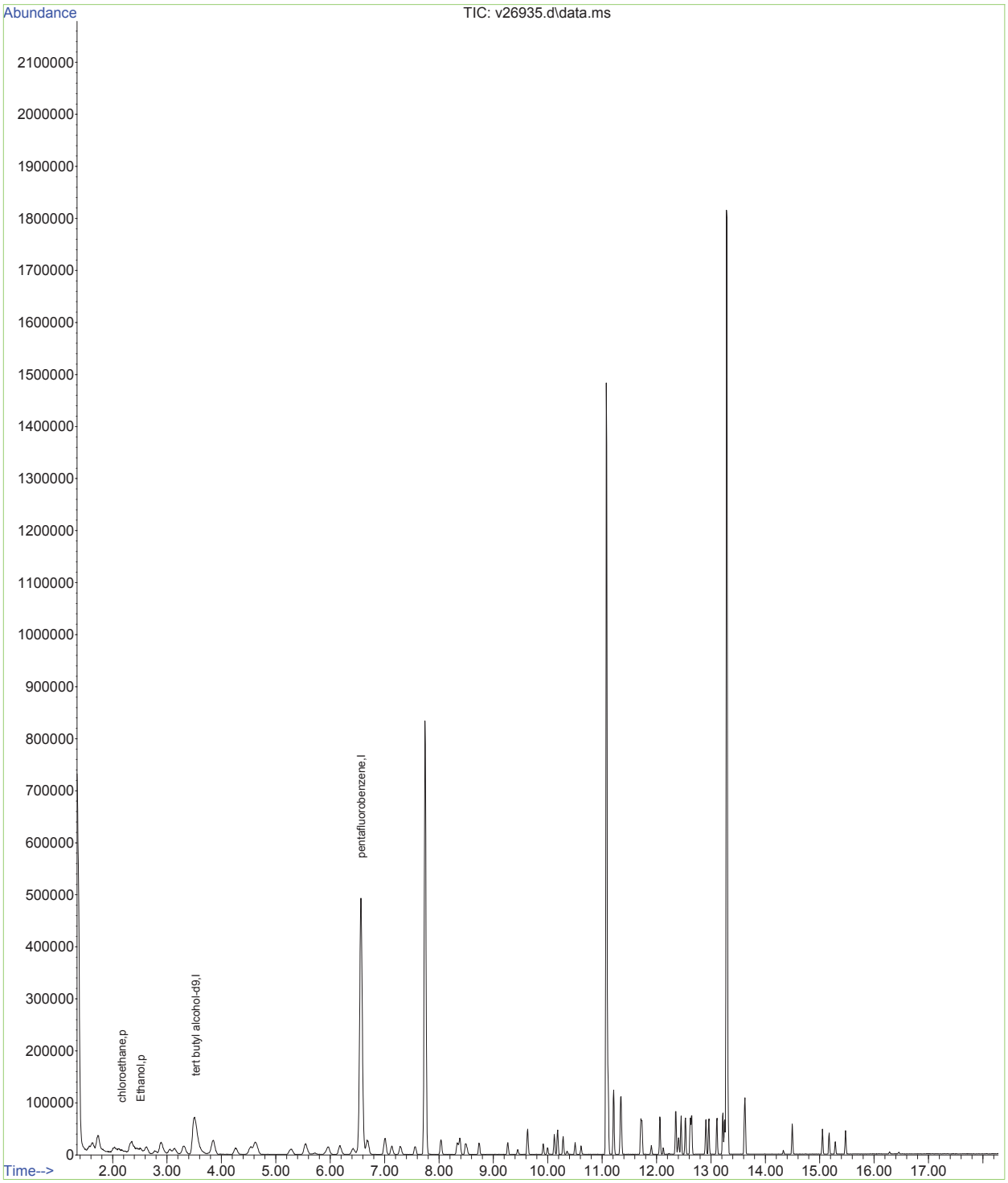
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.533	65	165100	500.00	ug/L	0.01
3) pentafluorobenzene	6.569	168	548060	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.516	45	10989m	474.44	ug/L	
4) chloroethane	2.170	64	11967	2.68	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST MC28118

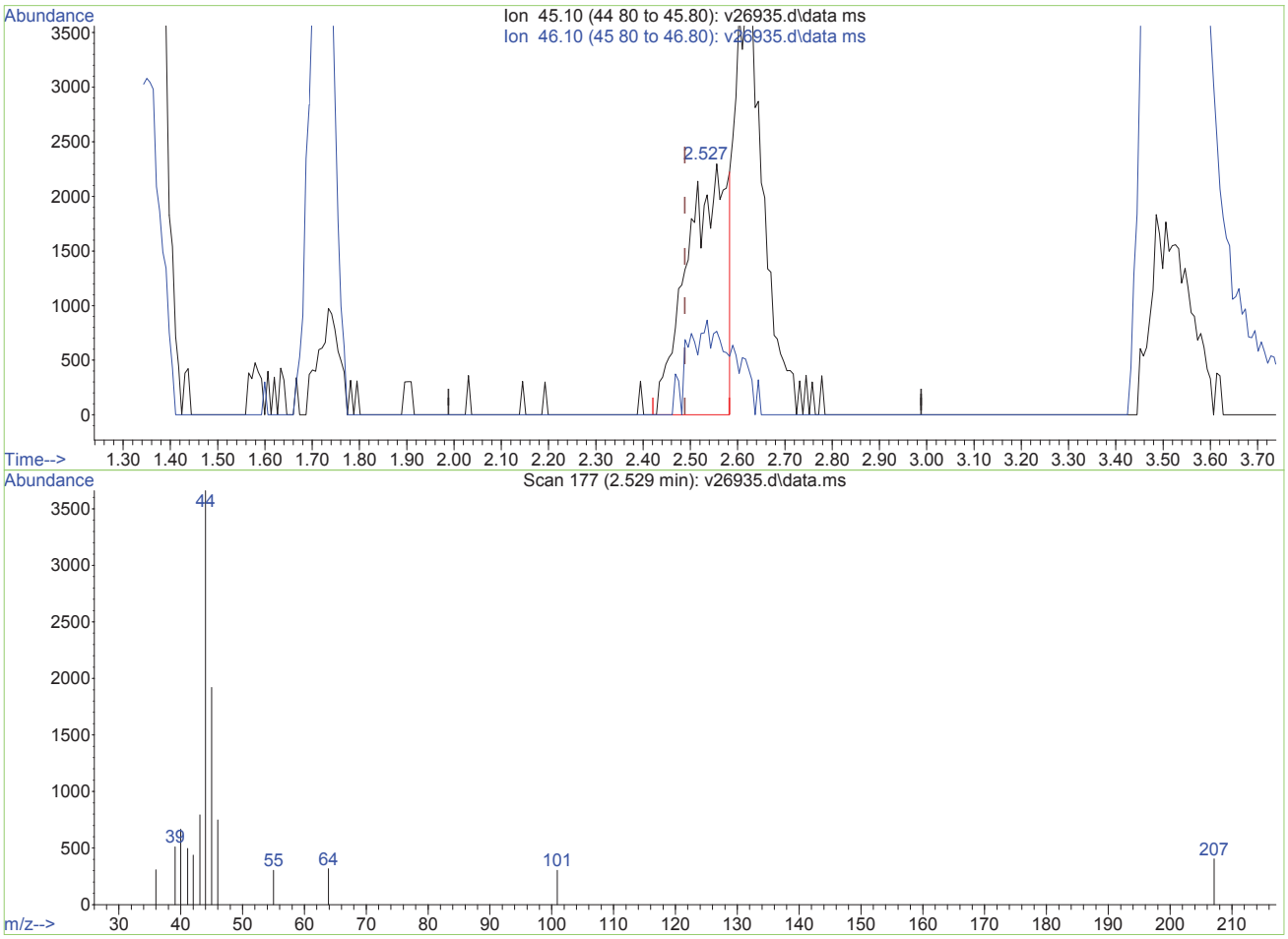
Data Path : O:\msv\1\databackup\v140107\
Data File : v26935.d
Acq On : 7 Jan 2014 1:49 pm
Operator : amym
Sample : ic1019-2
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 12 11:52:51 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Data Path : O:\msv\1\databackup\v140107\
Data File : v26935.d
Acq On : 7 Jan 2014 1:49 pm
Operator : amym
Sample : ic1019-2
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 12 11:49:55 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26935.d\data.ms

(2) Ethanol (p)

2.527min (+0.039) 585.36ug/L

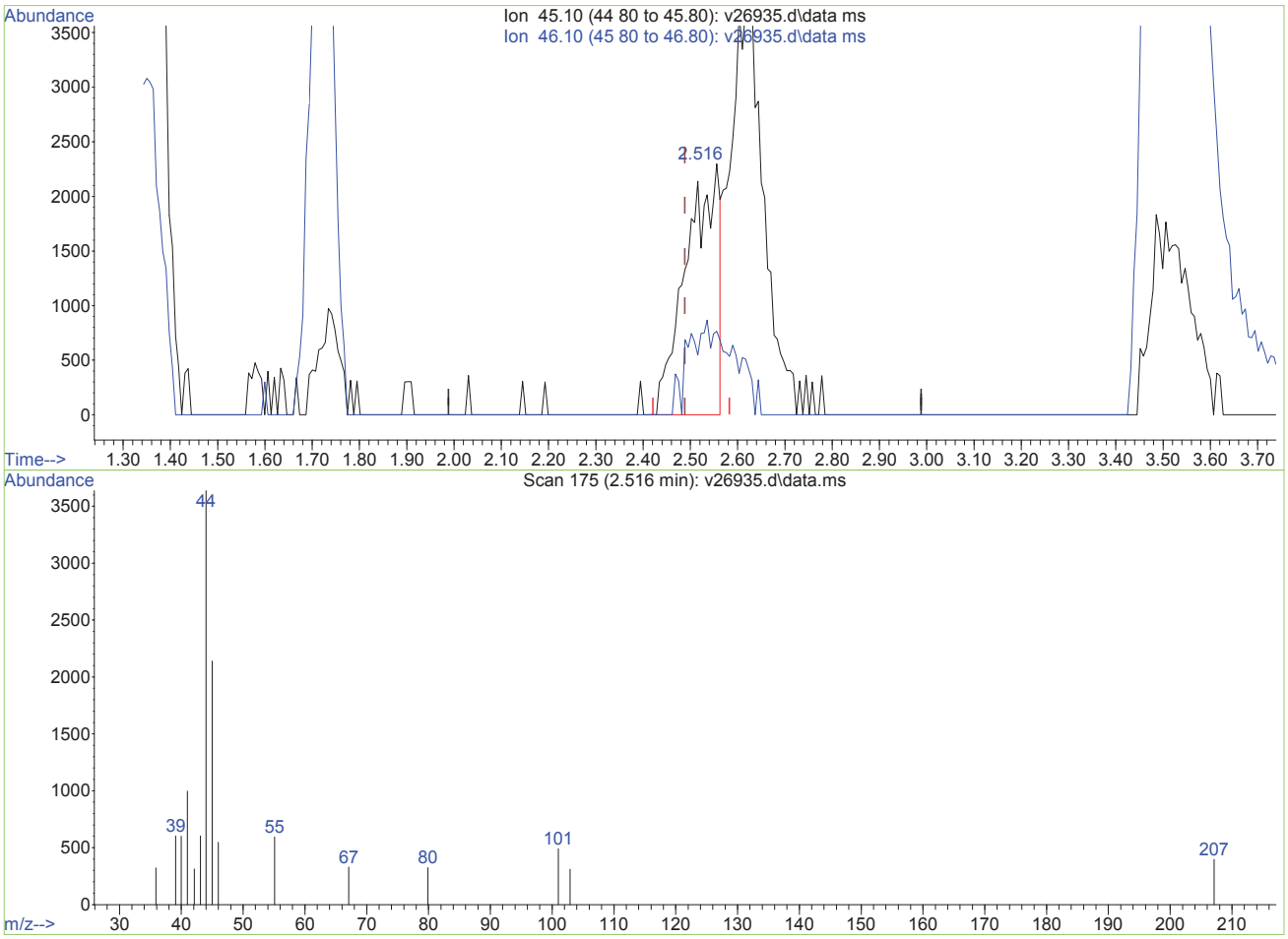
response 13558

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	43.04#
0.00	0.00	0.00
0.00	0.00	0.00

V26935.D edits: Ethanol

Data Path : O:\msv\1\databackup\v140107\
Data File : v26935.d
Acq On : 7 Jan 2014 1:49 pm
Operator : amym
Sample : ic1019-2
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 12 11:49:55 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26935.d\data.ms

(2) Ethanol (p)

2.516min (+0.027) 474.44ug/L m

response 10989

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	53.11#
0.00	0.00	0.00
0.00	0.00	0.00

V26935.D edits: Ethanol

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26936.d
Acq On : 7 Jan 2014 2:16 pm
Operator : amym
Sample : ic1019-5
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

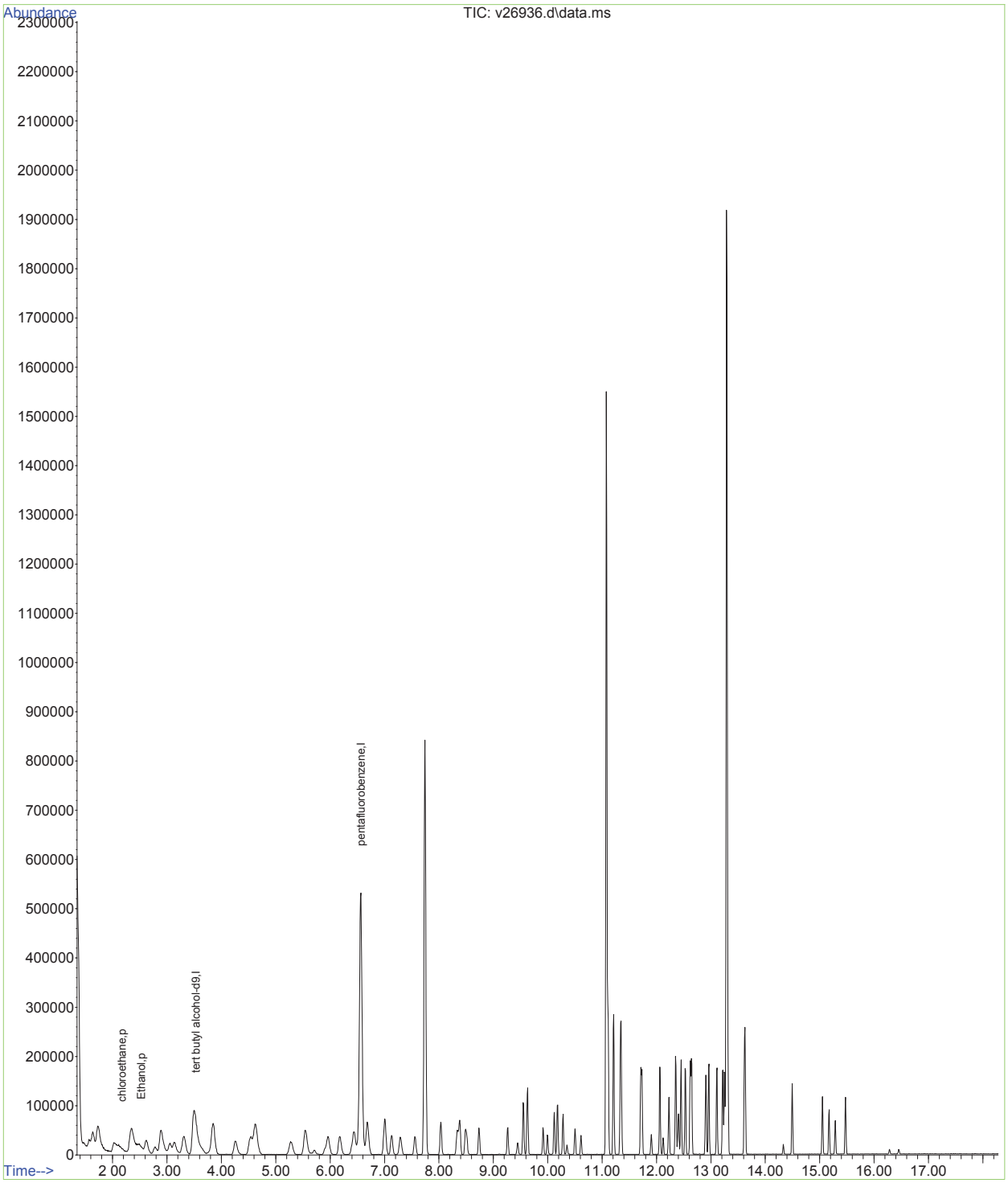
Quant Time: Oct 12 11:49:57 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.532	65	174193	500.00	ug/L	0.00
3) pentafluorobenzene	6.565	168	569450	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.523	45	24520	1003.38	ug/L	# 1
4) chloroethane	2.173	64	26754	5.77	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msv\1\databackup\v140107\
Data File : v26936.d
Acq On : 7 Jan 2014 2:16 pm
Operator : amym
Sample : ic1019-5
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 12 11:49:57 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26937.d
Acq On : 7 Jan 2014 2:42 pm
Operator : amym
Sample : ic1019-10
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

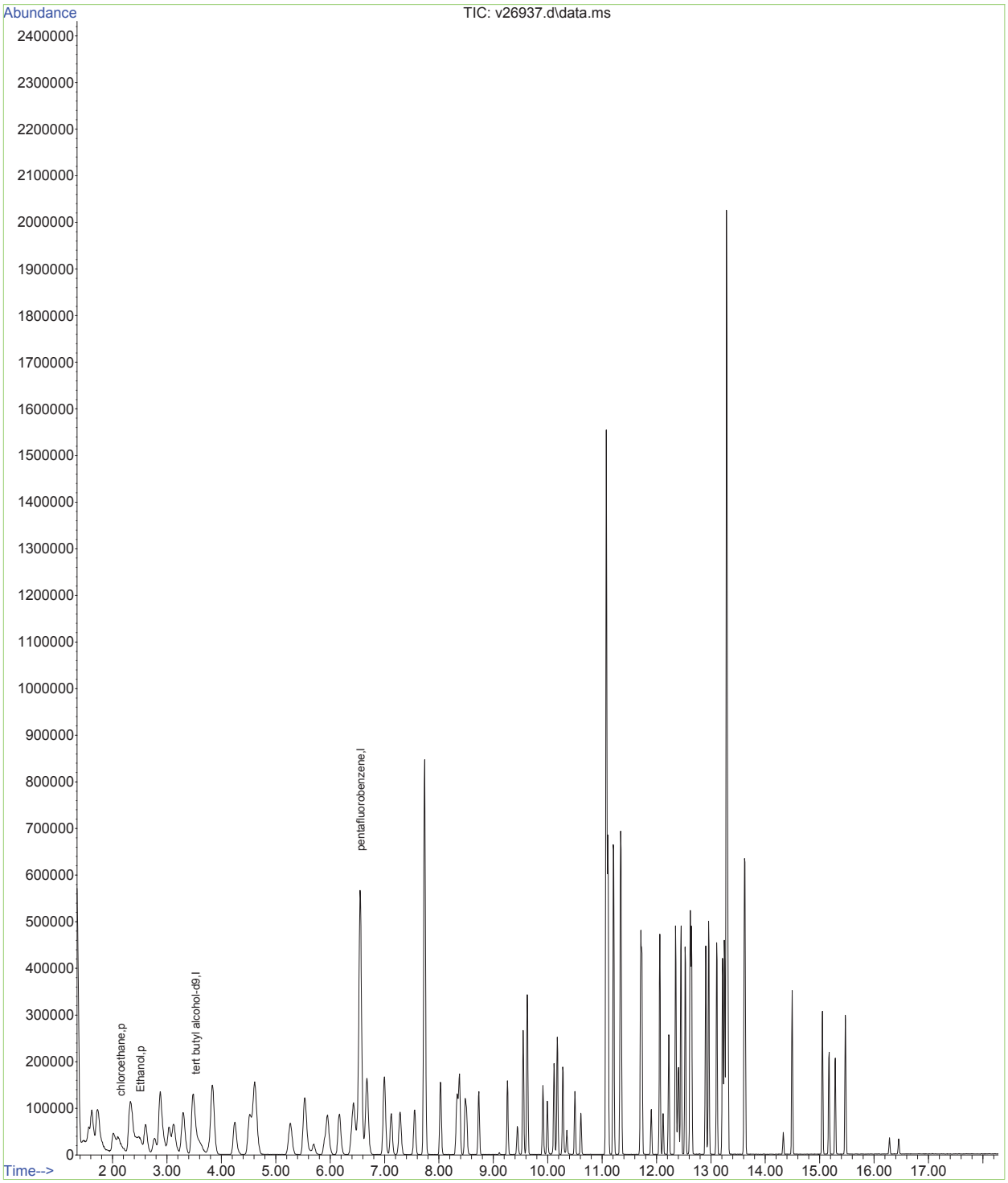
Quant Time: Oct 12 11:49:59 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.523	65	172384	500.00	ug/L	0.00
3) pentafluorobenzene	6.556	168	597997	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.509	45	48113	1989.48	ug/L	# 1
4) chloroethane	2.155	64	52409	10.77	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msv\1\databackup\v140107\
Data File : v26937.d
Acq On : 7 Jan 2014 2:42 pm
Operator : amym
Sample : ic1019-10
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 12 11:49:59 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Data Path : O:\msv\1\databackup\v140107\
Data File : v26938.d
Acq On : 7 Jan 2014 3:08 pm
Operator : amym
Sample : icc1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

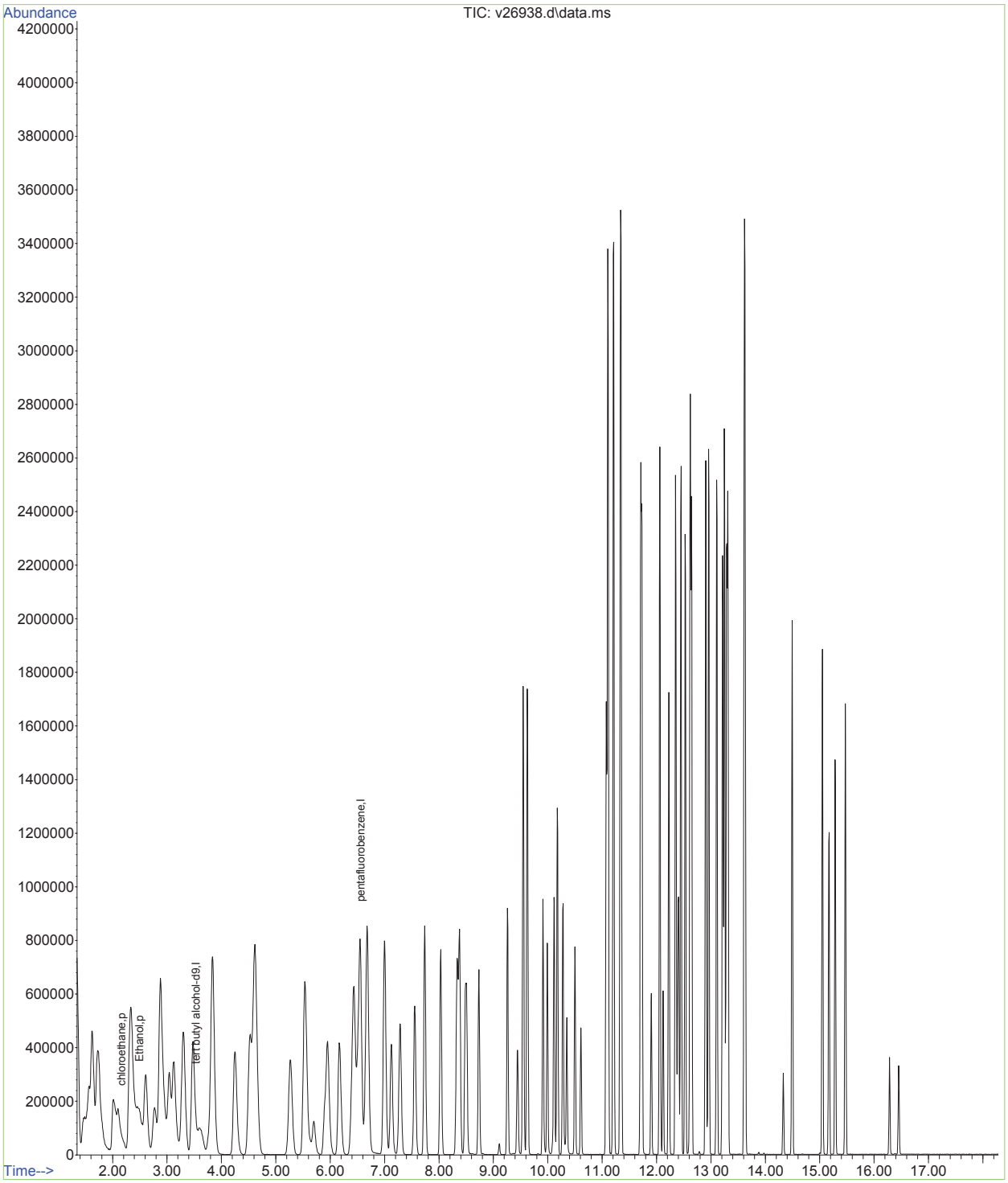
Quant Time: Oct 12 11:54:24 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.524	65	196490	500.00	ug/L	0.00
3) pentafluorobenzene	6.559	168	650576	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.489	45	137020m	4970.70	ug/L	
4) chloroethane	2.155	64	264750	50.00	ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msv\1\databackup\v140107\
Data File : v26938.d
Acq On : 7 Jan 2014 3:08 pm
Operator : amym
Sample : icc1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

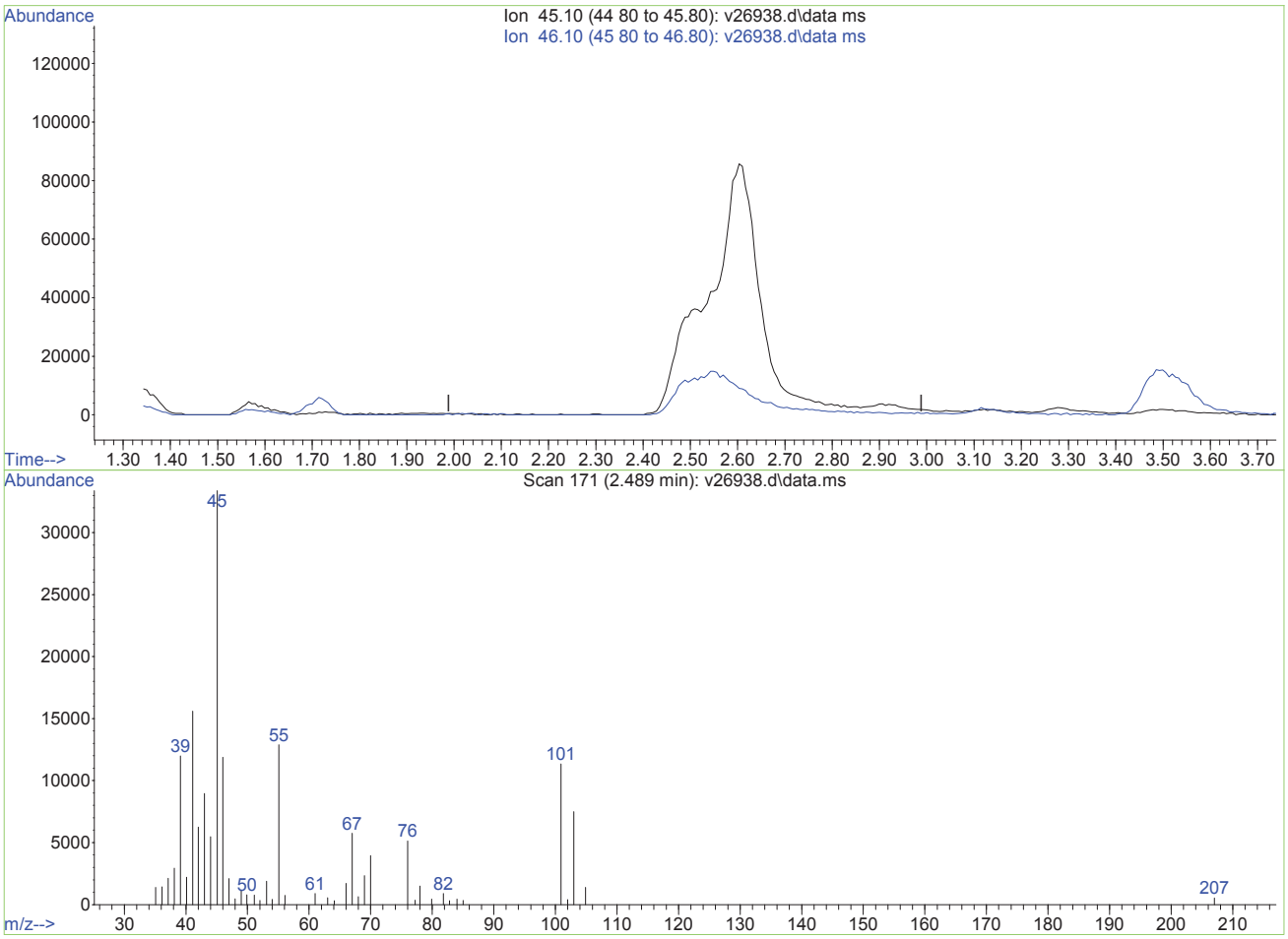
Quant Time: Oct 12 11:54:24 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26938.d
Acq On : 7 Jan 2014 3:08 pm
Operator : amym
Sample : icc1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 12 11:50:01 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26938.d\data.ms

(2) Ethanol (p)

2.489min (-2.489) 0.00ug/L

response 0

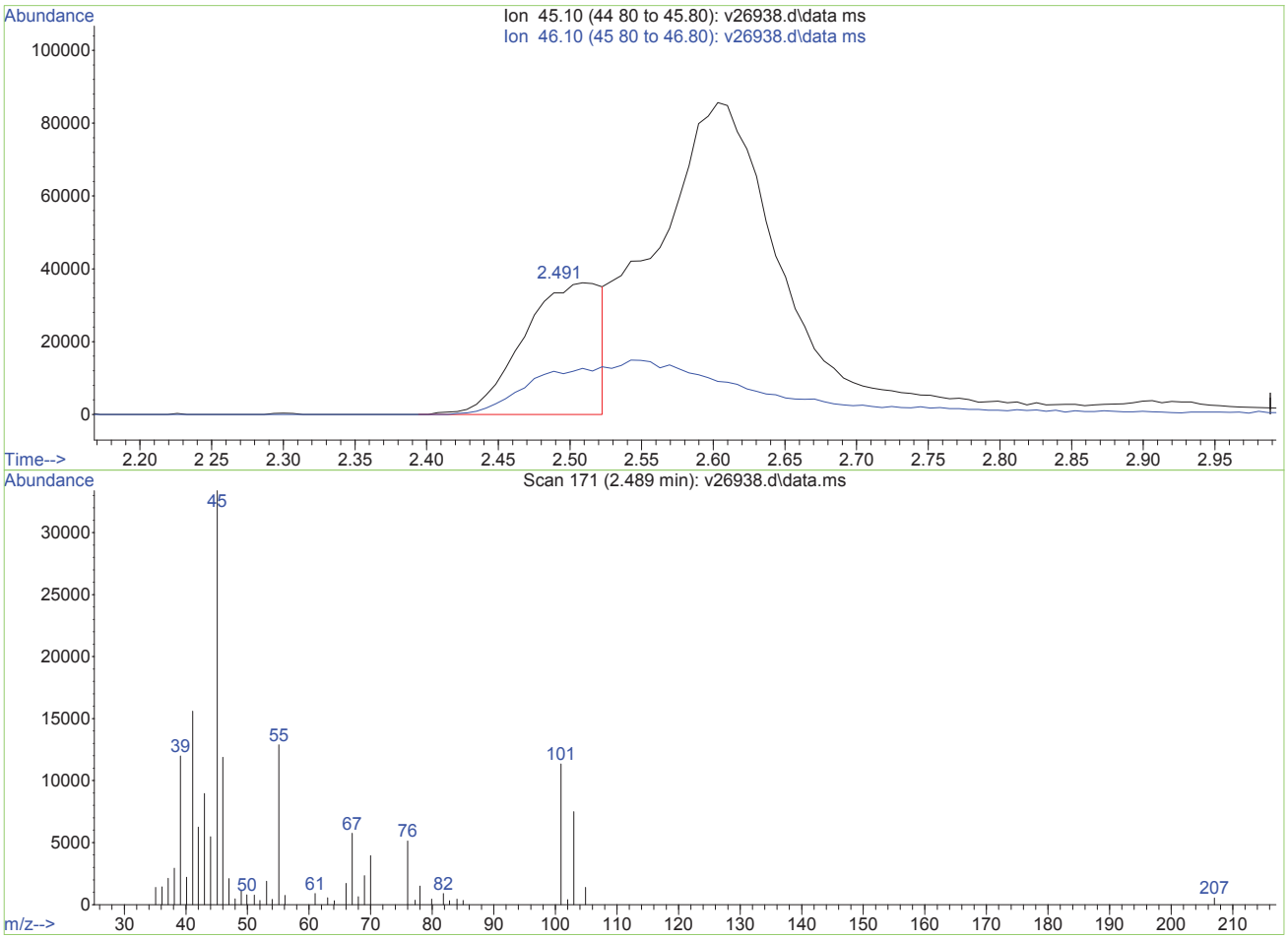
Ion	Exp%	Act%
45.10	100	0.00
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26938.D edits: Ethanol

SGS ACCUTEST
MC28118

Data Path : O:\msv\1\databackup\v140107\
Data File : v26938.d
Acq On : 7 Jan 2014 3:08 pm
Operator : amym
Sample : icc1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 12 11:50:01 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26938.d\data.ms

(2) Ethanol (p)

2.489min (0.000) 4970.70ug/L m

response 137020

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26938.D edits: Ethanol

SGS ACCUTEST MC28118

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26939.d
Acq On : 7 Jan 2014 3:35 pm
Operator : amym
Sample : ic1019-100
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 12 11:55:09 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

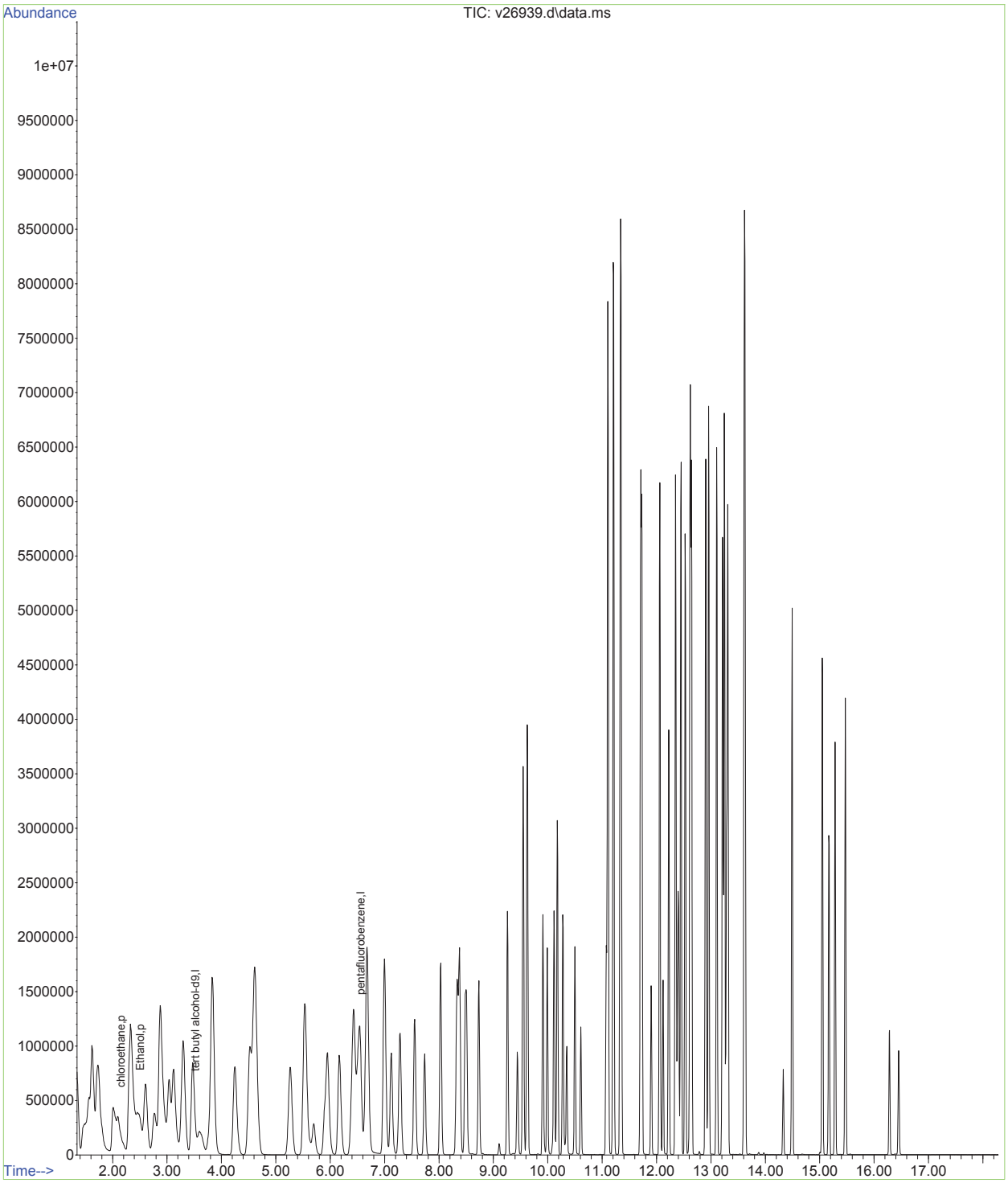
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.521	65	218199	500.00	ug/L	0.00
3) pentafluorobenzene	6.558	168	709327	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.502	45	415447m	13571.79	ug/L	
4) chloroethane	2.151	64	566729	98.17	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST MC28118

Data Path : O:\msv\1\databackup\v140107\
Data File : v26939.d
Acq On : 7 Jan 2014 3:35 pm
Operator : amym
Sample : ic1019-100
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

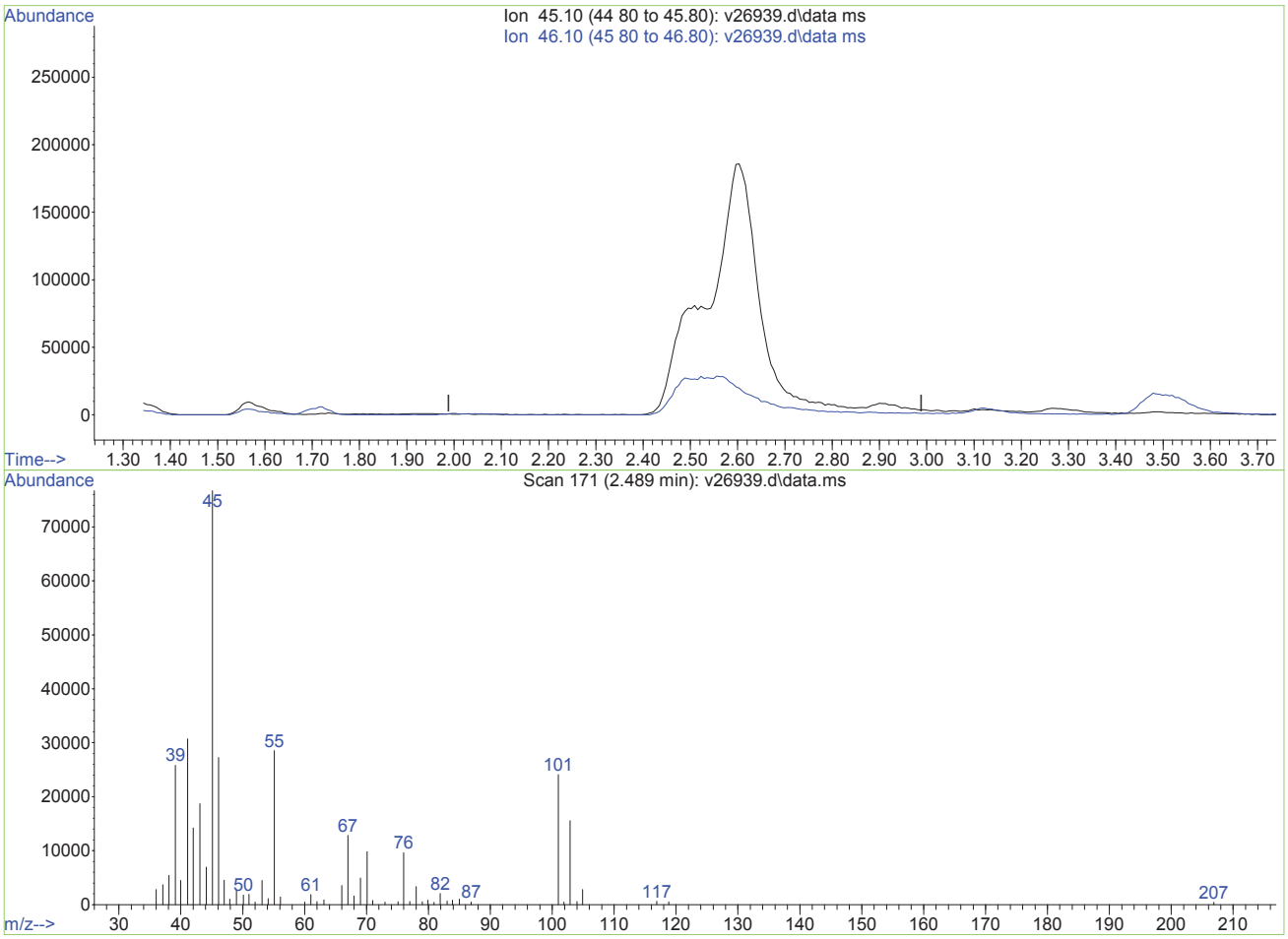
Quant Time: Oct 12 11:55:09 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26939.d
Acq On : 7 Jan 2014 3:35 pm
Operator : amym
Sample : ic1019-100
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 12 11:50:03 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26939.d\data.ms

(2) Ethanol (p)

2.489min (-2.489) 0.00ug/L

response 0

Ion	Exp%	Act%
45.10	100	0.00
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

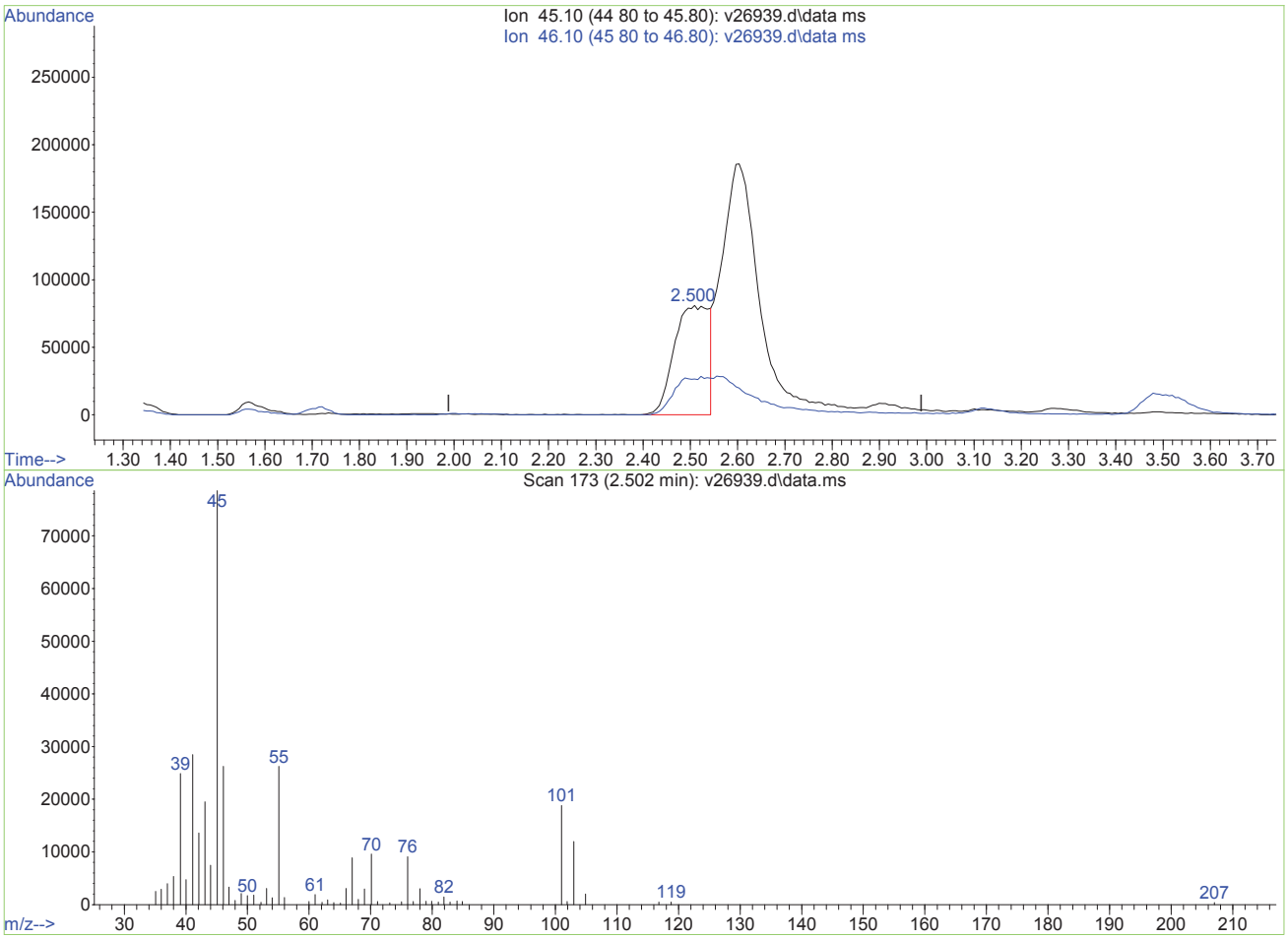
V26939.D edits: Ethanol

SGS ACCUTEST
MC28118

Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26939.d
Acq On : 7 Jan 2014 3:35 pm
Operator : amym
Sample : ic1019-100
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 12 11:50:03 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26939.d\data.ms

(2) Ethanol (p)

2.502min (+0.013) 13571.79ug/L m

response 415447

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26939.D edits: Ethanol

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

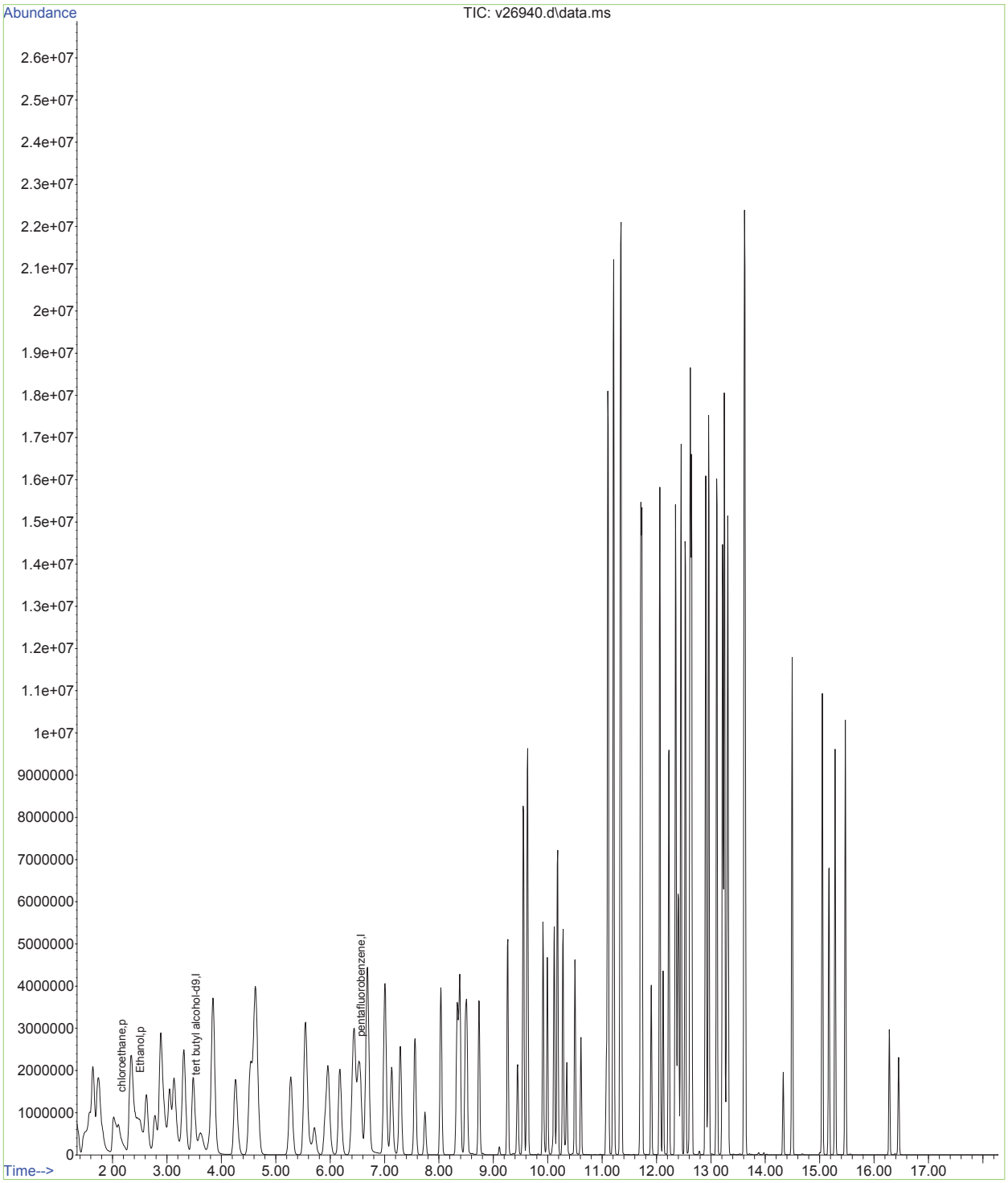
Quant Time: Oct 12 11:56:38 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.526	65	248311m	500.00	ug/L	0.00
3) pentafluorobenzene	6.565	168	827373	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.502	45	690608m	19824.86	ug/L	
4) chloroethane	2.165	64	1217177m	180.75	ug/L	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

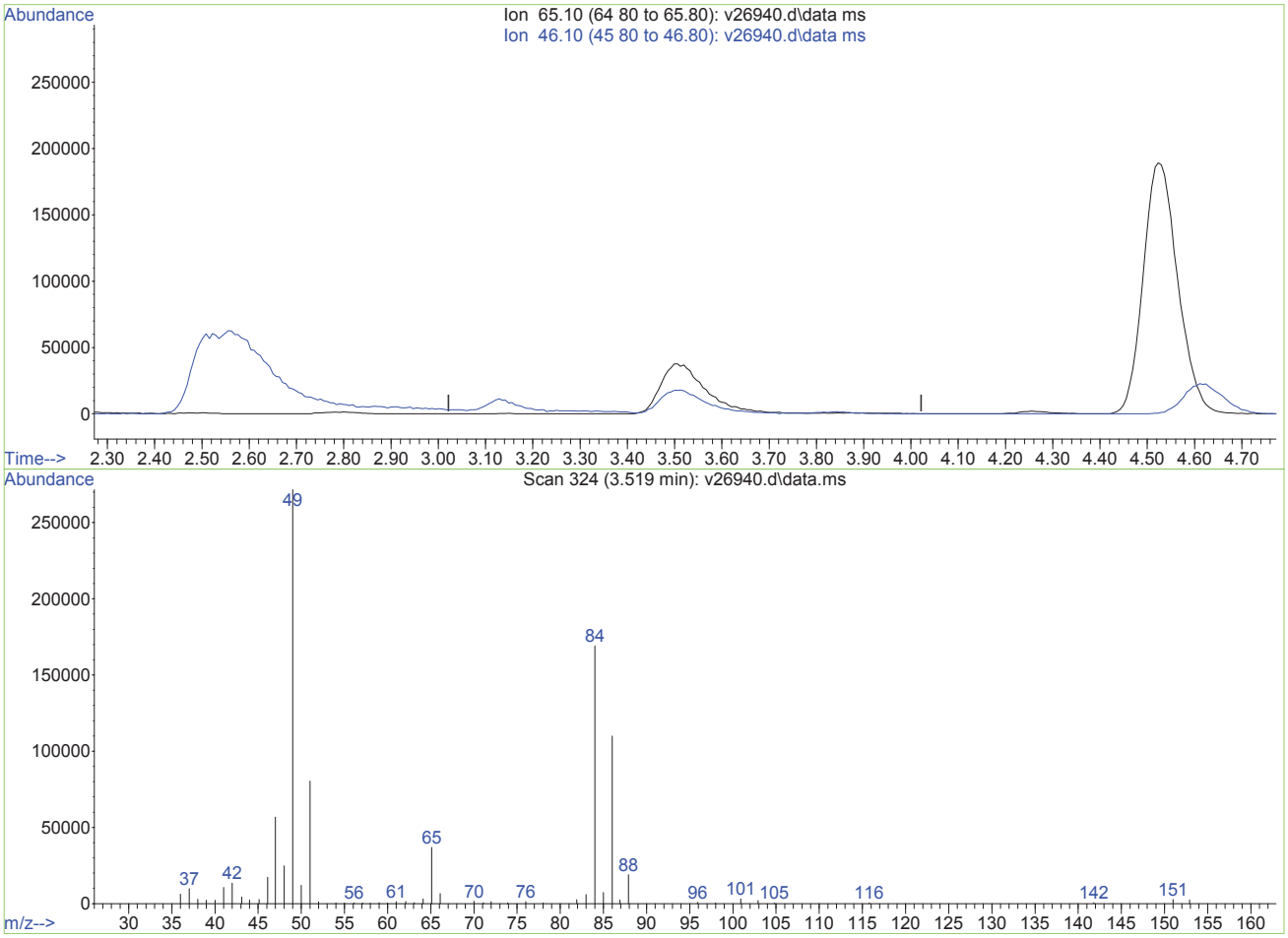
Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:56:38 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:50:05 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26940.d\data.ms

(1) tert butyl alcohol-d9 (I)

3.522min (-3.522) 0.00ug/L

response 0

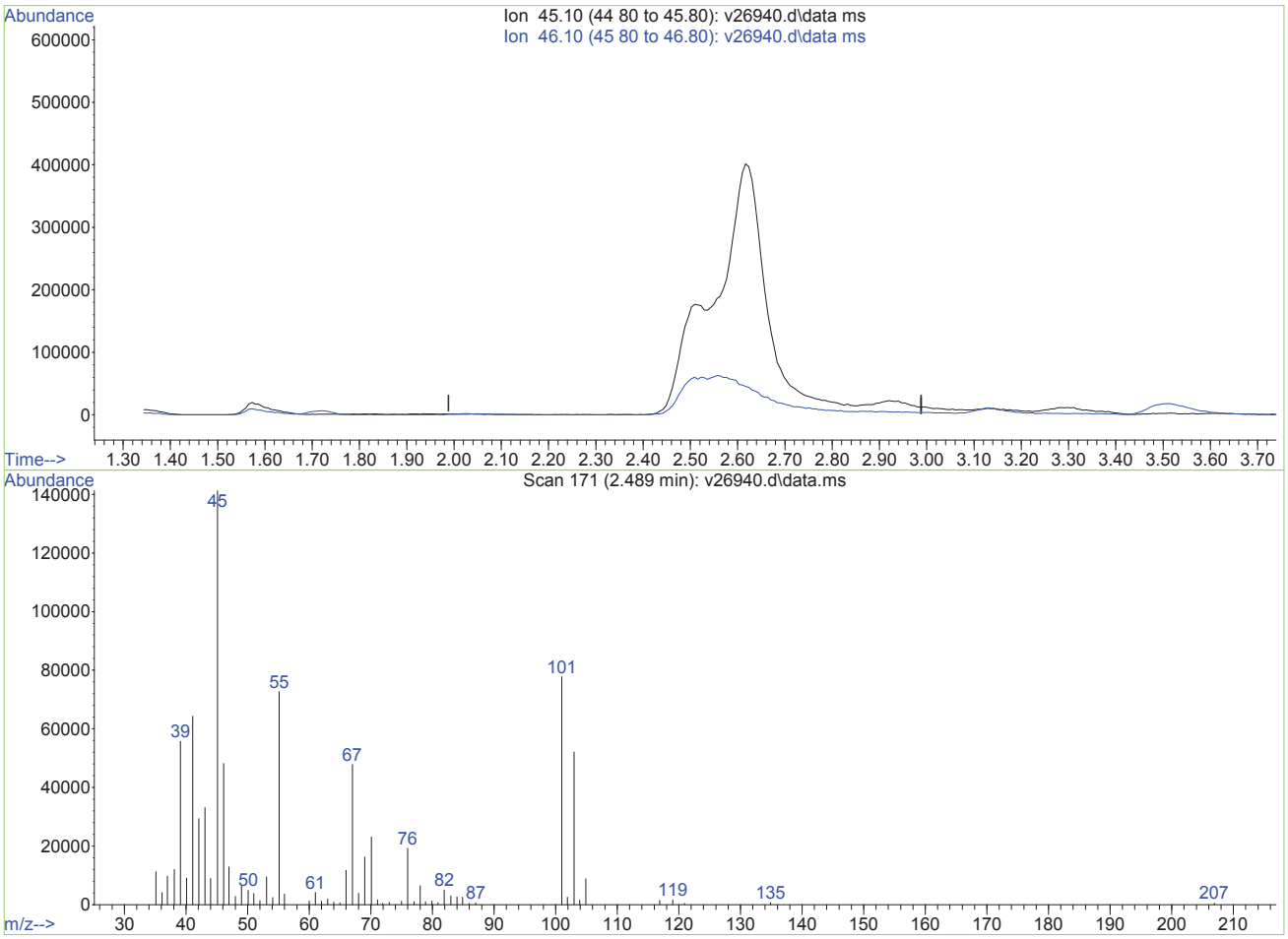
Ion	Exp%	Act%
65.10	100	0.00
46.10	54.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26940.D edits: tert butyl alcohol-d9

Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:50:05 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26940.d\data.ms

(2) Ethanol (p)

2.489min (-2.489) 0.00ug/L

response 0

Ion	Exp%	Act%
45.10	100	0.00
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

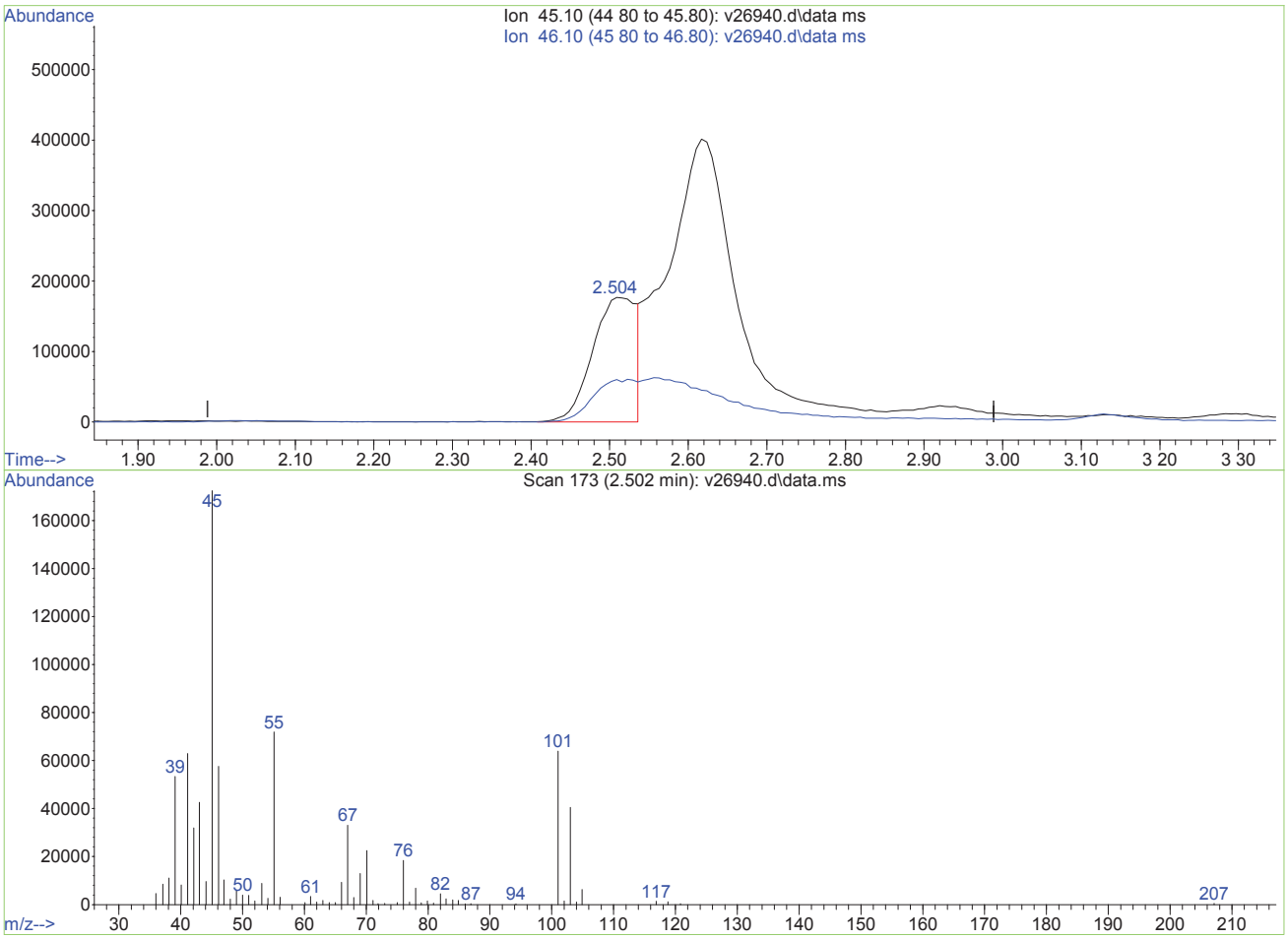
V26940.D edits: Ethanol

SGS ACCUTEST
MC28118

Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:50:05 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26940.d\data.ms

(2) Ethanol (p)

2.502min (+0.014) 19824.86ug/L m

response 690608

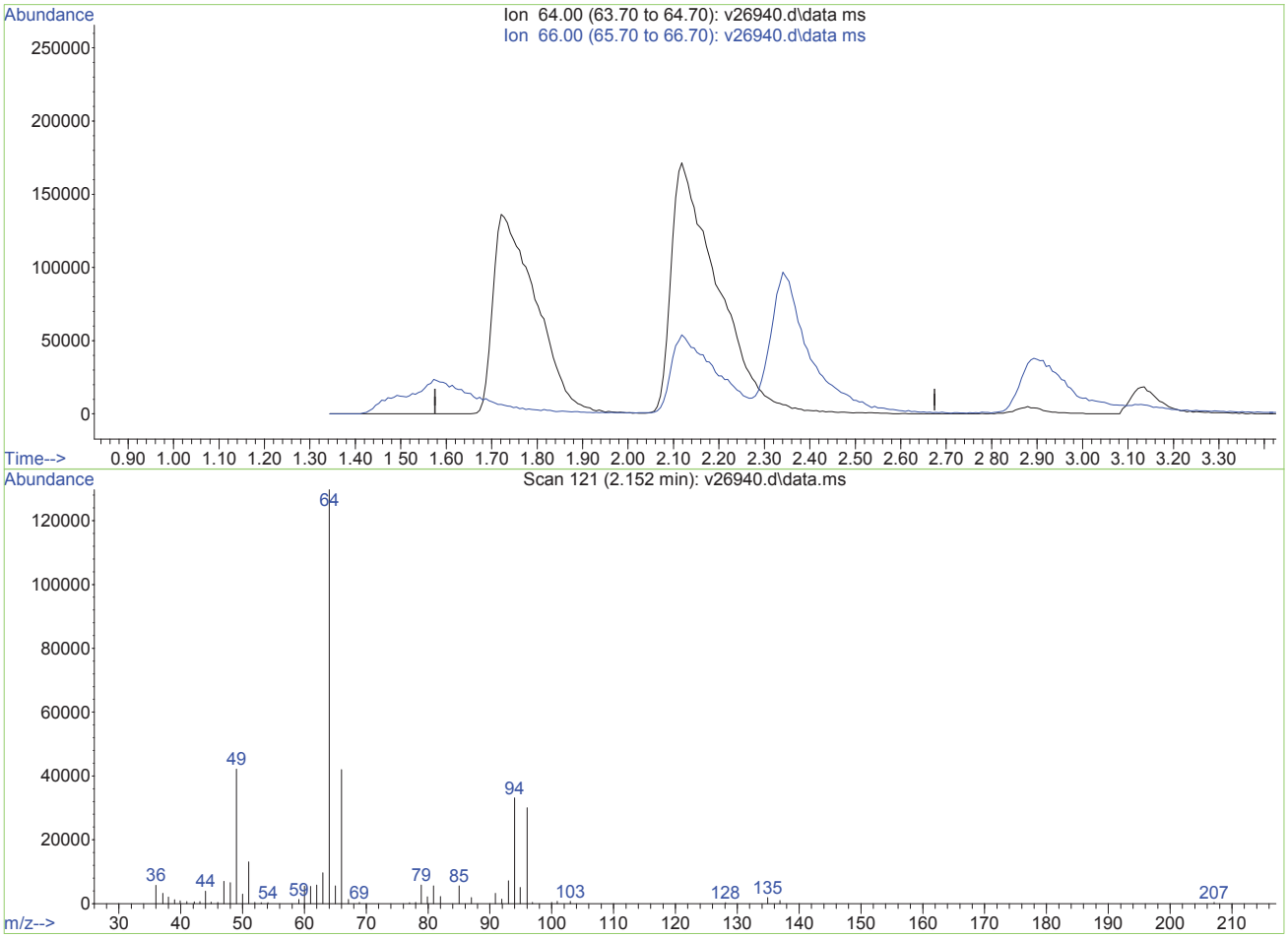
Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26940.D edits: Ethanol

SGS ACCUTEST MC28118

Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:50:05 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26940.d\data.ms

(4) chloroethane (p)

2.155min (-2.155) 0.00ug/L

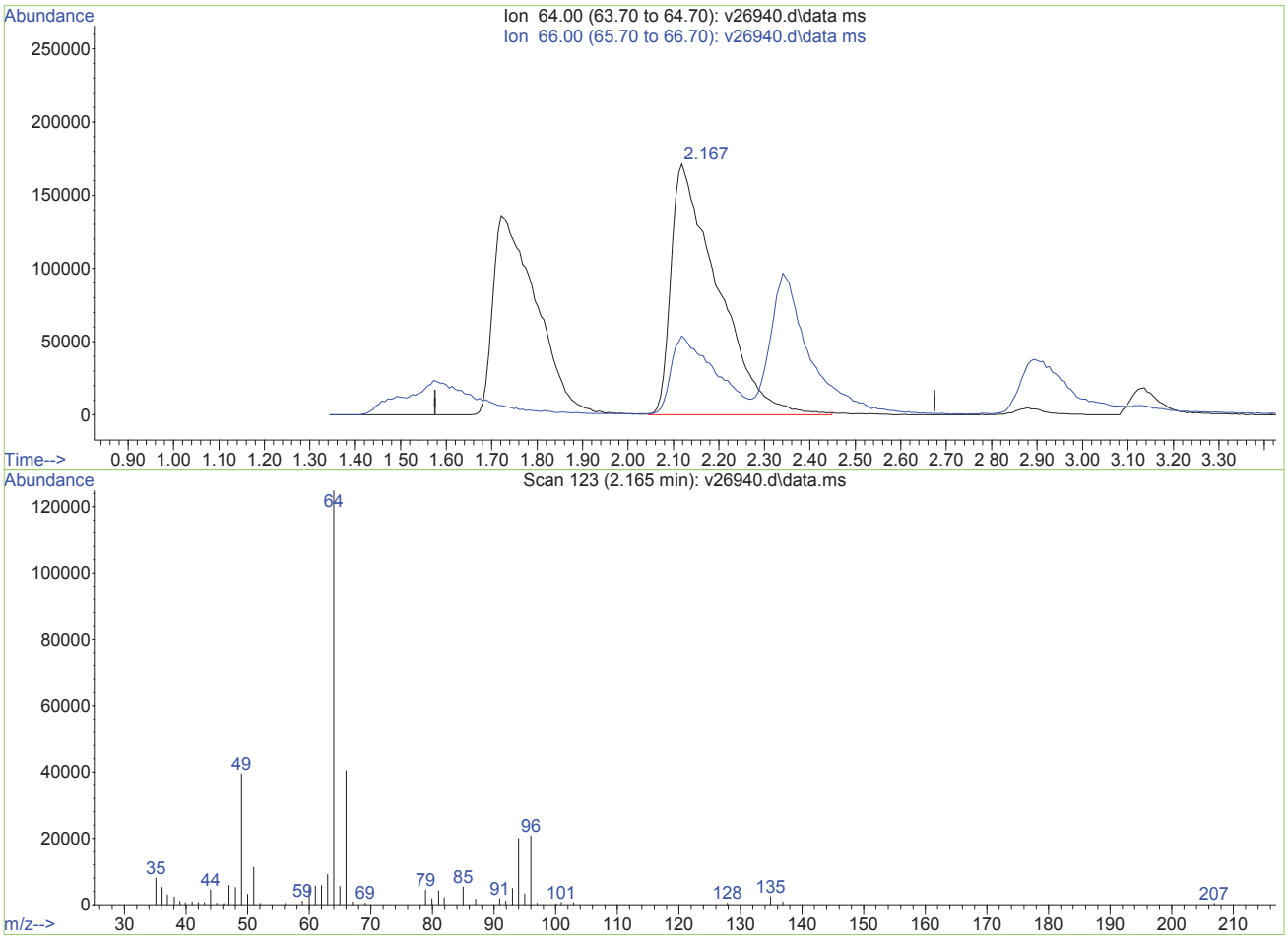
response 0

Ion	Exp%	Act%
64.00	100	0.00
66.00	34.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26940.D edits: chloroethane

Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:50:05 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26940.d\data.ms

(4) chloroethane (p)

2.165min (+0.010) 180.75ug/L m

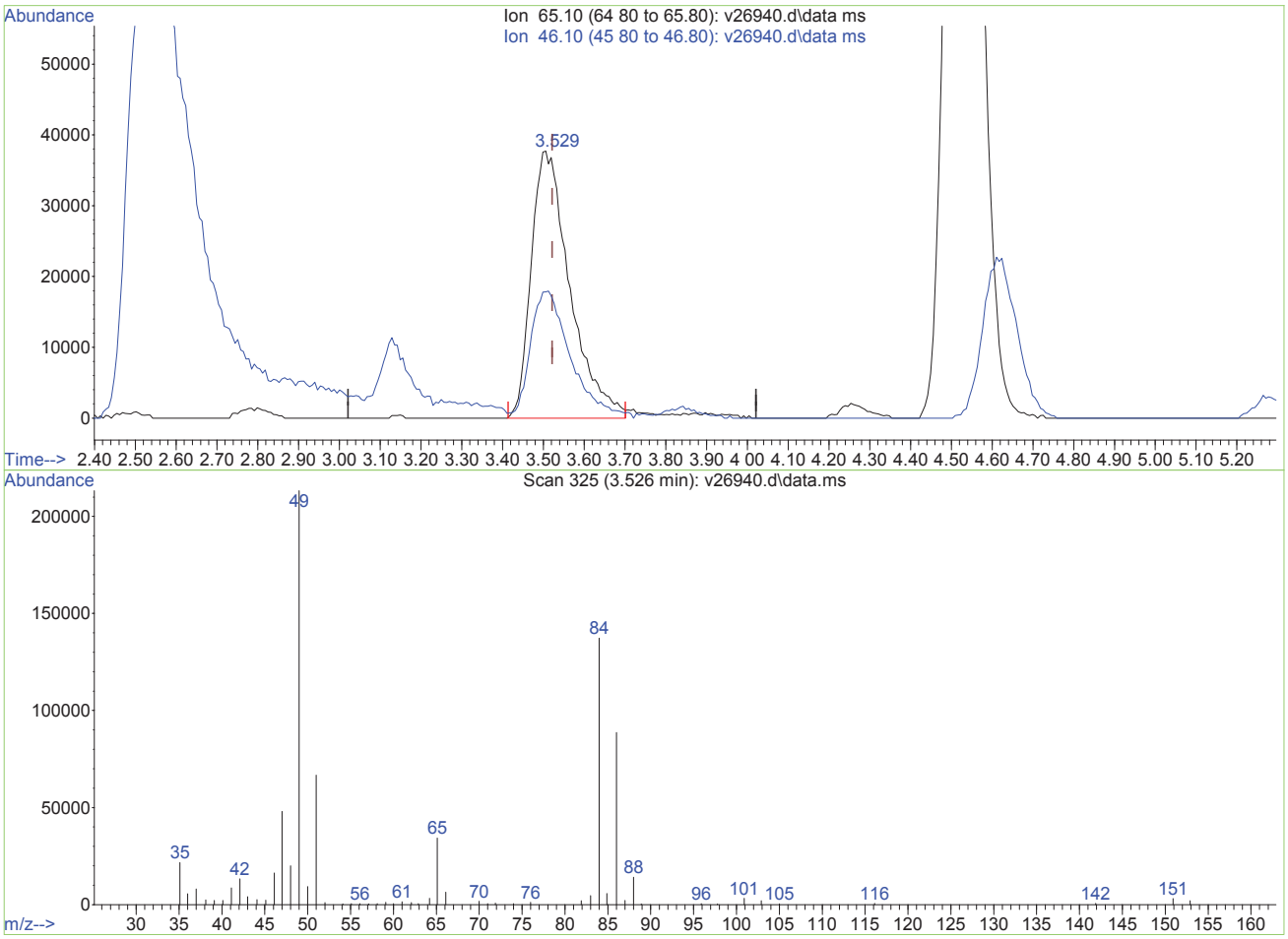
response 1217177

Ion	Exp%	Act%
64.00	100	100
66.00	34.60	32.37
0.00	0.00	0.00
0.00	0.00	0.00

V26940.D edits: chloroethane

Data Path : O:\msv\1\databackup\v140107\
Data File : v26940.d
Acq On : 7 Jan 2014 4:02 pm
Operator : amym
Sample : ic1019-200
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 11:56:38 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26940.d\data.ms

(1) tert butyl alcohol-d9 (I)

3.526min (+0.004) 500.00ug/L m

response 248311

Ion	Exp%	Act%
65.10	100	100
46.10	54.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26940.D edits: tert butyl alcohol-d9

Data Path : O:\msv\1\databackup\v140107\
Data File : v26942.d
Acq On : 7 Jan 2014 5:47 pm
Operator : amym
Sample : ic1019-400
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

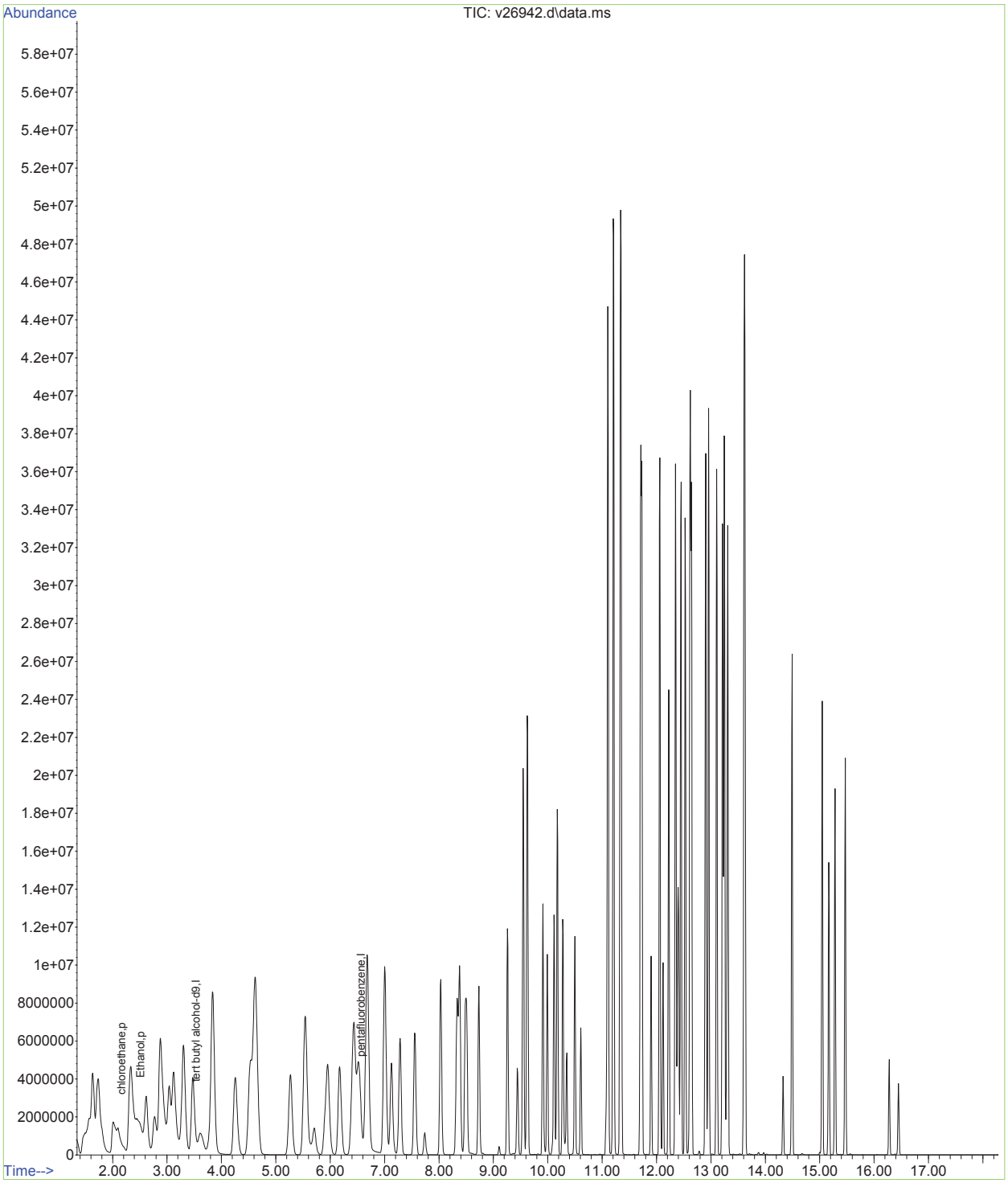
Quant Time: Oct 12 11:57:12 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.528	65	280929	500.00	ug/L	0.00
3) pentafluorobenzene	6.561	168	994052	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.509	45	1732790m	43966.69	ug/L	
4) chloroethane	2.160	64	2471921	305.53	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msv\1\databackup\v140107\
Data File : v26942.d
Acq On : 7 Jan 2014 5:47 pm
Operator : amym
Sample : ic1019-400
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

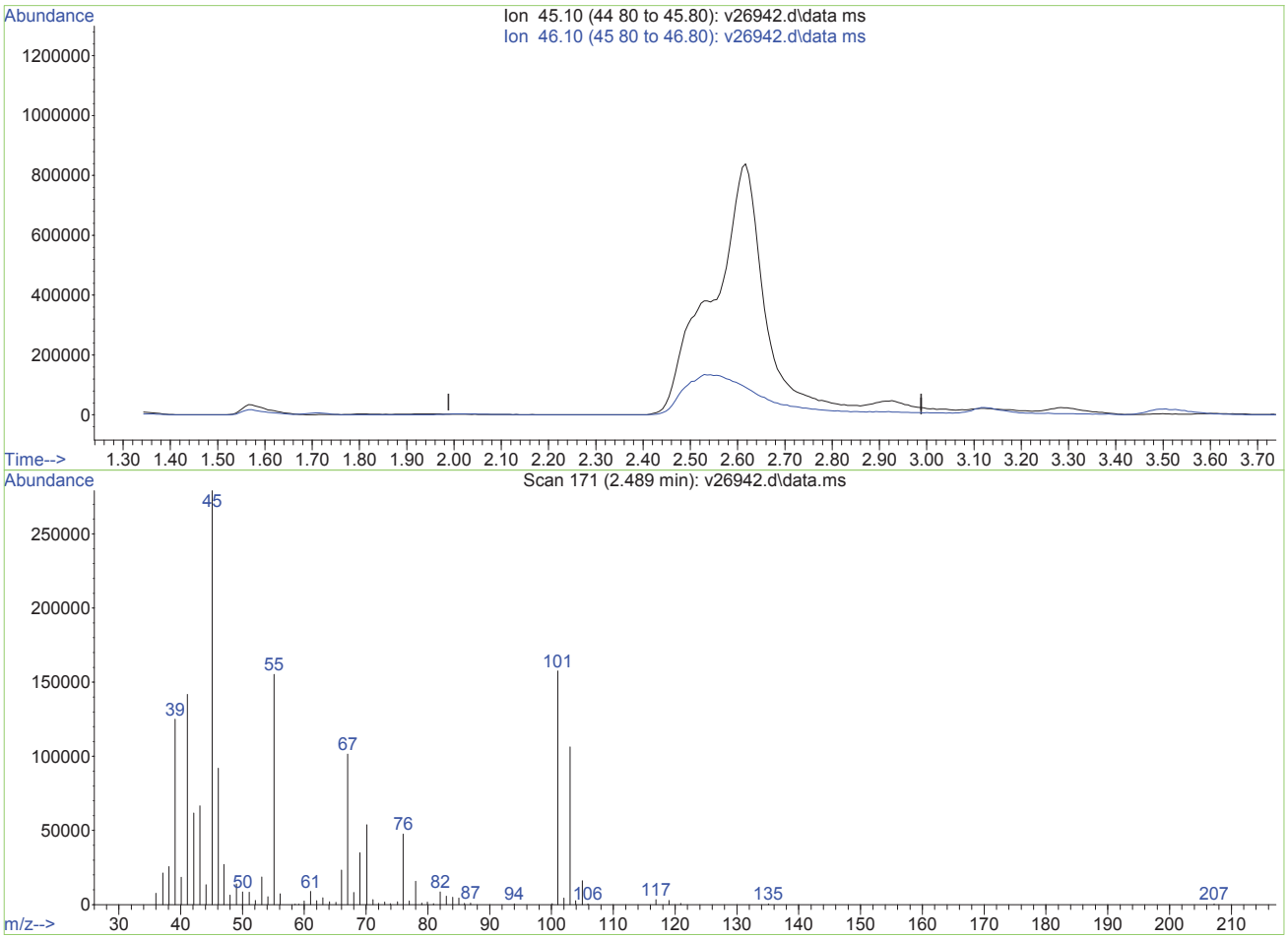
Quant Time: Oct 12 11:57:12 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26942.d
Acq On : 7 Jan 2014 5:47 pm
Operator : amym
Sample : ic1019-400
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 12 11:50:07 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26942.d\data.ms

(2) Ethanol (p)

2.489min (-2.489) 0.00ug/L

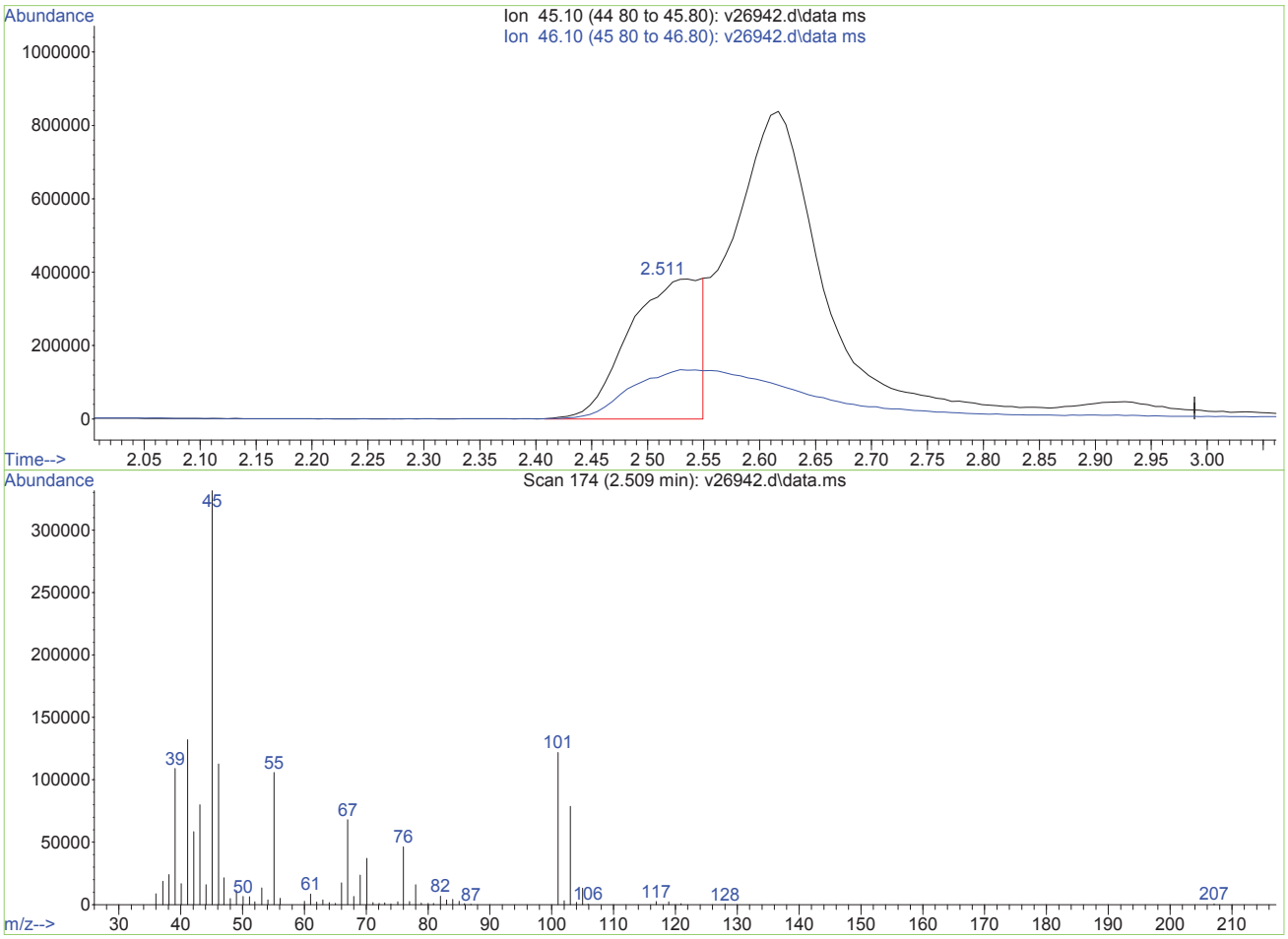
response 0

Ion	Exp%	Act%
45.10	100	0.00
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26942.D edits: Ethanol

Data Path : O:\msv\1\databackup\v140107\
Data File : v26942.d
Acq On : 7 Jan 2014 5:47 pm
Operator : amym
Sample : ic1019-400
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 12 11:50:07 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 11:48:46 2015
Response via : Initial Calibration



TIC: v26942.d\data.ms

(2) Ethanol (p)

2.509min (+0.020) 43966.69ug/L m

response 1732790

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26942.D edits: Ethanol

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26944.d
Acq On : 7 Jan 2014 7:05 pm
Operator : amym
Sample : icv1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

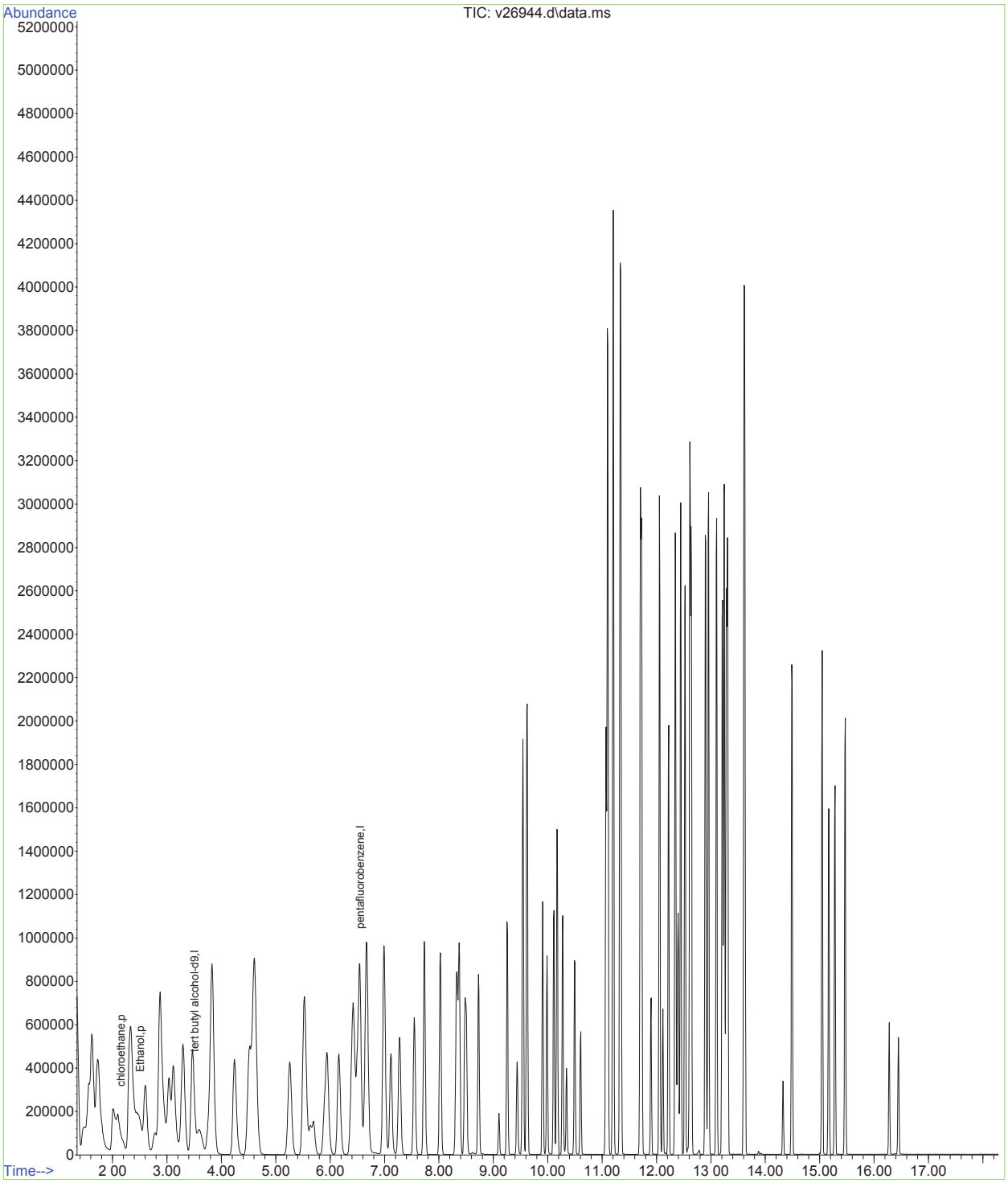
Quant Time: Oct 12 12:04:13 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.508	65	215524	500.00	ug/L	-0.01
3) pentafluorobenzene	6.550	168	735695	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.502	45	219095m	6281.66	ug/L	
4) chloroethane	2.149	64	314843	55.64	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msv\1\databackup\v140107\
Data File : v26944.d
Acq On : 7 Jan 2014 7:05 pm
Operator : amym
Sample : icv1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

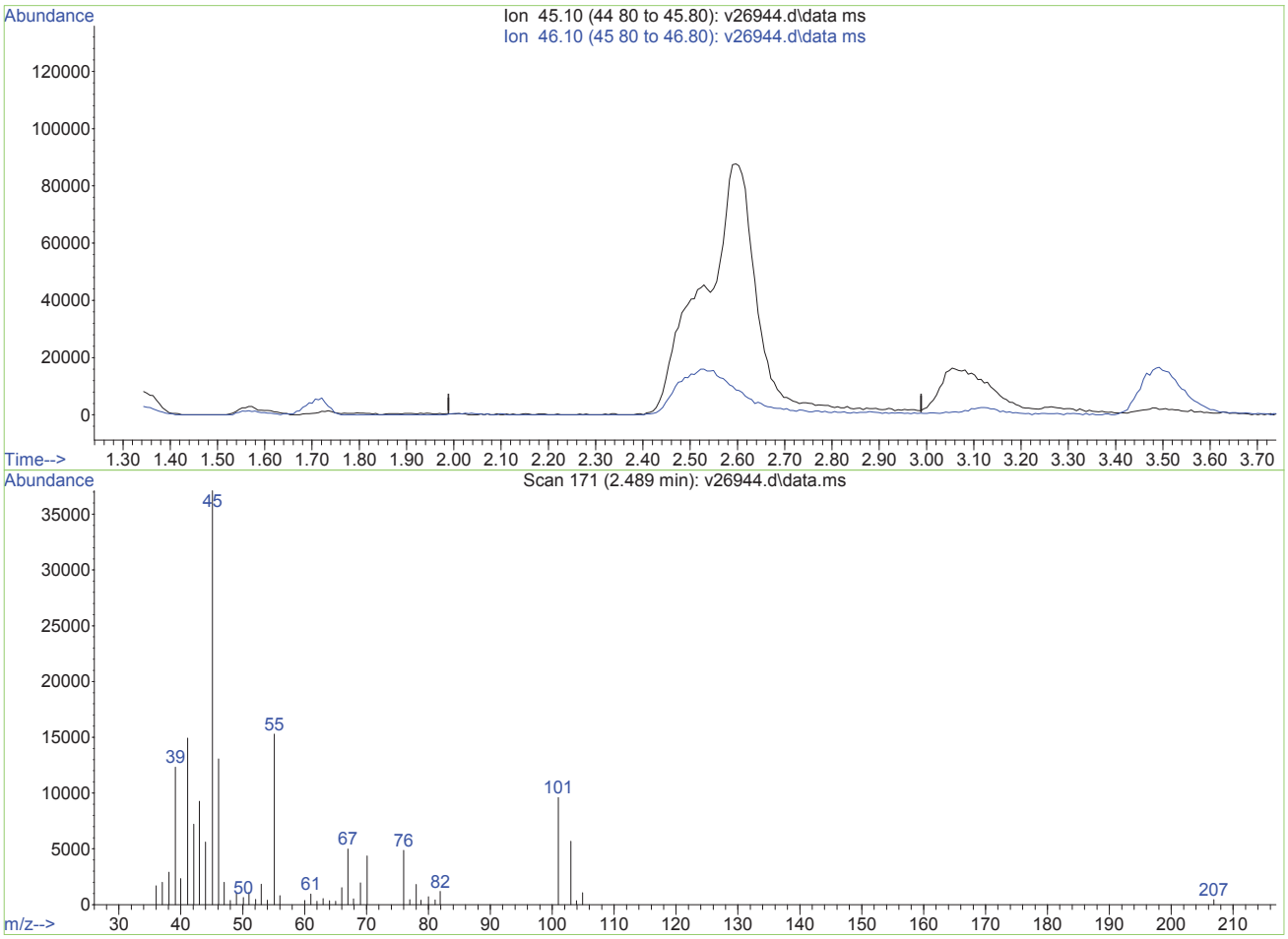
Quant Time: Oct 12 12:04:13 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140107\
Data File : v26944.d
Acq On : 7 Jan 2014 7:05 pm
Operator : amym
Sample : icv1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 12 12:03:55 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



TIC: v26944.d\data.ms

(2) Ethanol (p)

2.489min (-2.489) 0.00ug/L

response 0

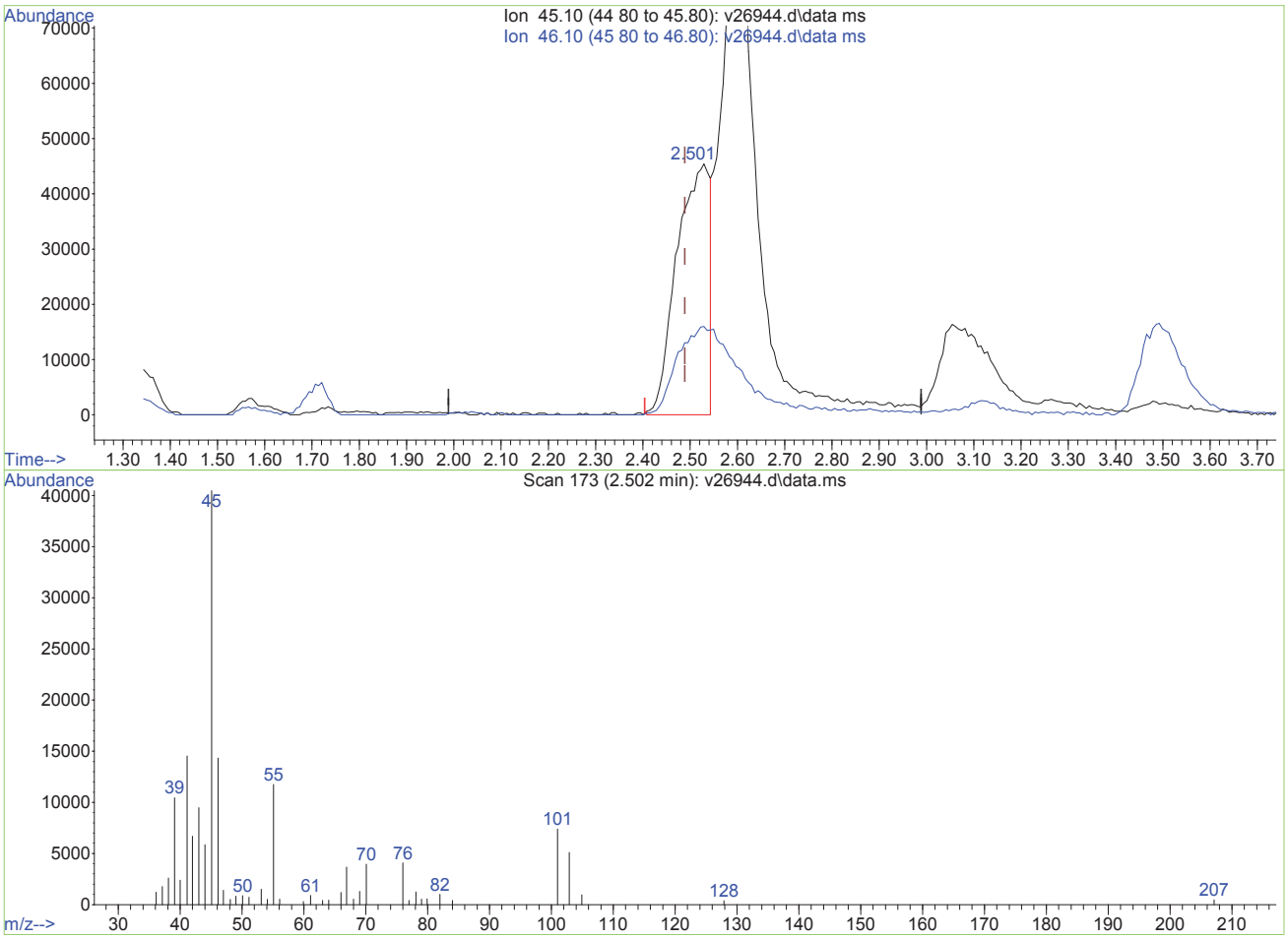
Ion	Exp%	Act%
45.10	100	0.00
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26944.D edits: Ethanol

SGS ACCUTEST
MC28118

Data Path : O:\msv\1\databackup\v140107\
Data File : v26944.d
Acq On : 7 Jan 2014 7:05 pm
Operator : amym
Sample : icv1019-50
Misc : MS30921,MSV1019,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 12 12:03:55 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



TIC: v26944.d\data.ms

(2) Ethanol (p)

2.502min (+0.013) 6281.66ug/L m

response 219095

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V26944.D edits: Ethanol

SGS ACCUTEST MC28118

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140211\
Data File : v27805.d
Acq On : 11 Feb 2014 9:26 am
Operator : amym
Sample : cc1019-50
Misc : MS31105,MSV1048,,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 21 14:57:42 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.503	65	196552	500.00	ug/L	-0.02
3) pentafluorobenzene	6.542	168	586268	50.00	ug/L	-0.02
Target Compounds						Qvalue
2) Ethanol	2.495	45	196279m	6162.22	ug/L	
4) chloroethane	2.154	64	222687	49.28	ug/L	94

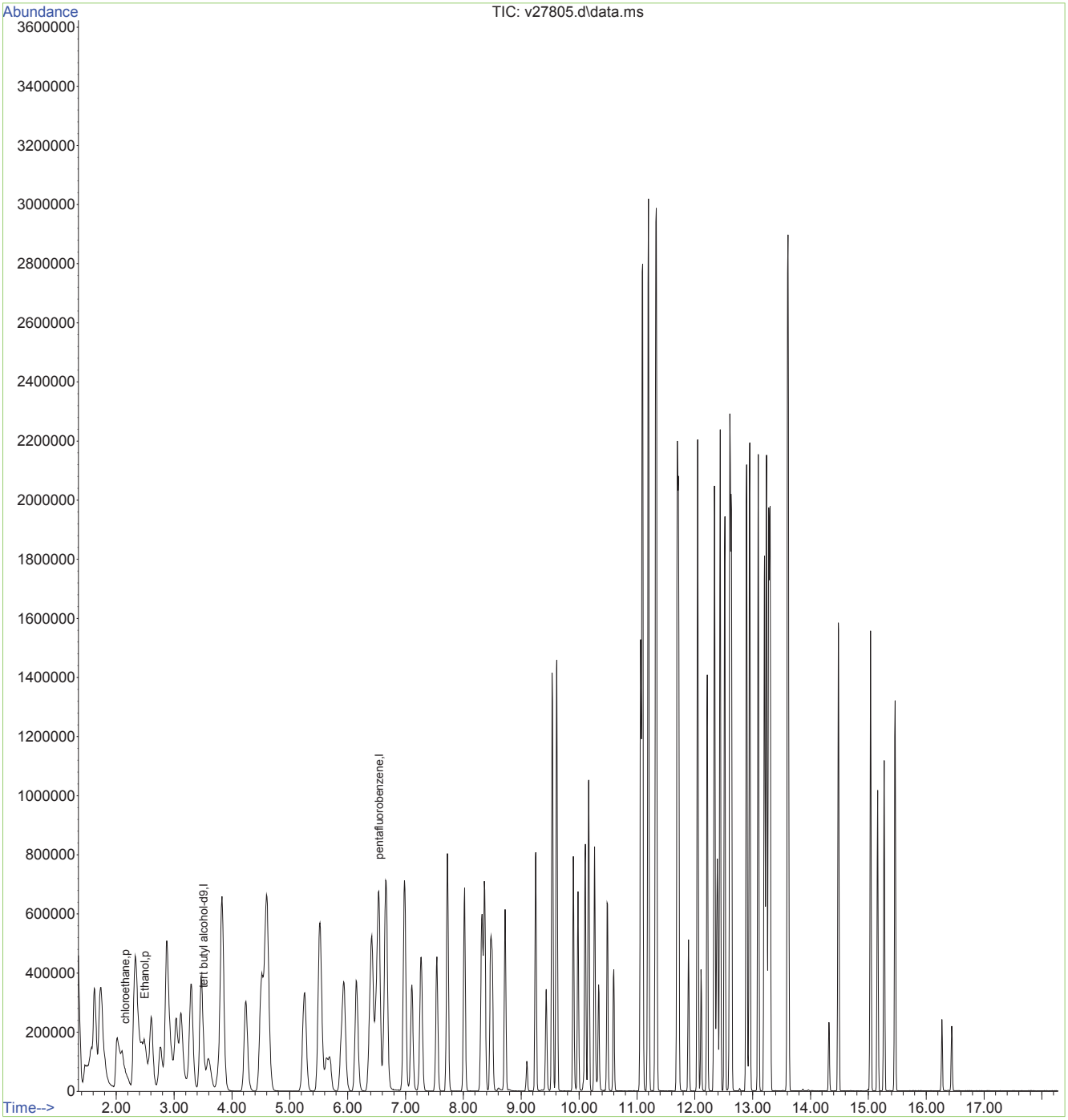
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST MC28118

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140211\
Data File : v27805.d
Acq On : 11 Feb 2014 9:26 am
Operator : amym
Sample : cc1019-50
Misc : MS31105,MSV1048,,,,5,1
ALS Vial : 1 Sample Multiplier: 1

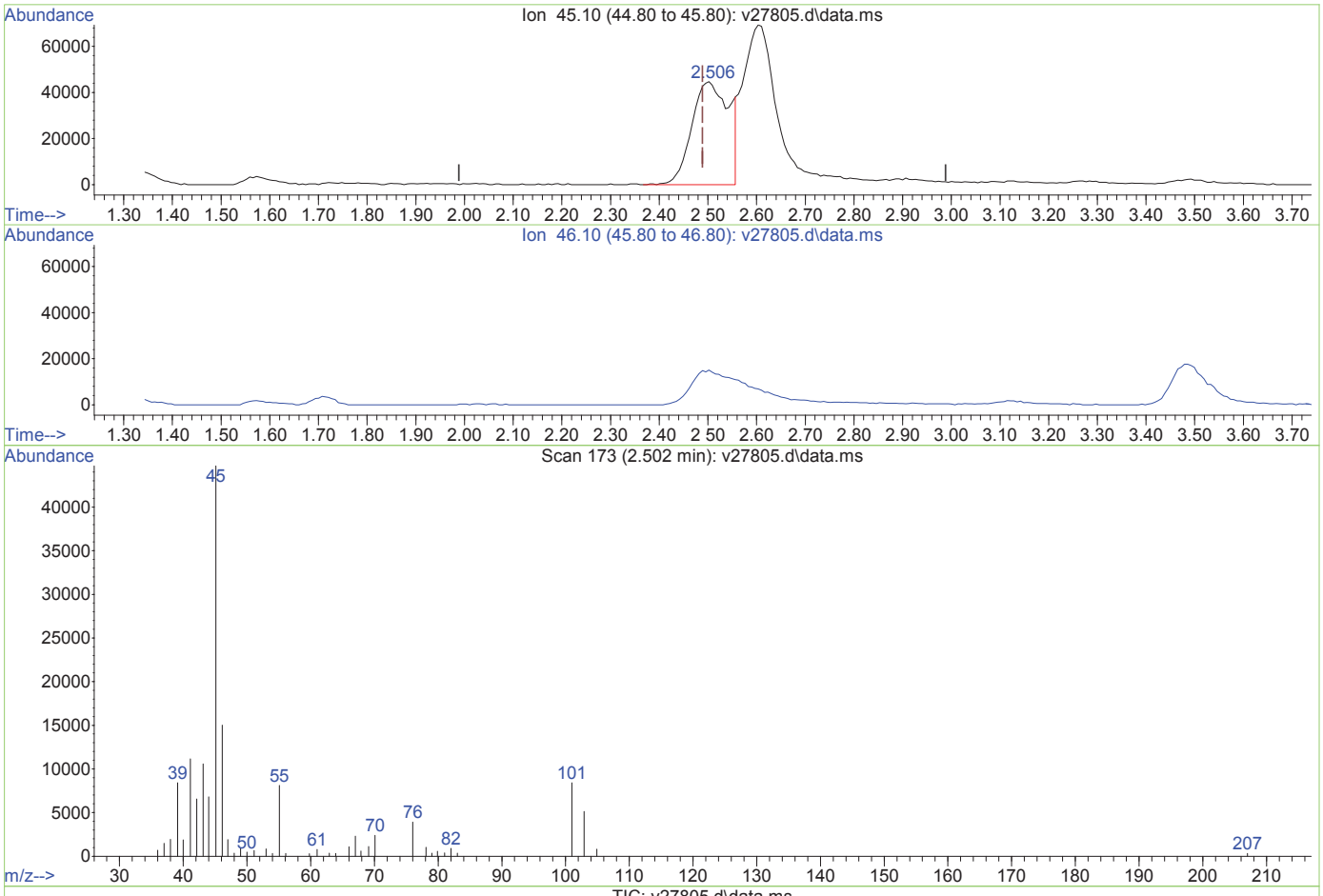
Quant Time: Nov 21 14:57:42 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140211\
Data File : v27805.d
Acq On : 11 Feb 2014 9:26 am
Operator : amym
Sample : cc1019-50
Misc : MS31105,MSV1048,,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 21 14:56:21 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



TIC: v27805.d\data.ms

(2) Ethanol (p)

2.506min (+0.017) 7628.91ug/L

response 239625

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

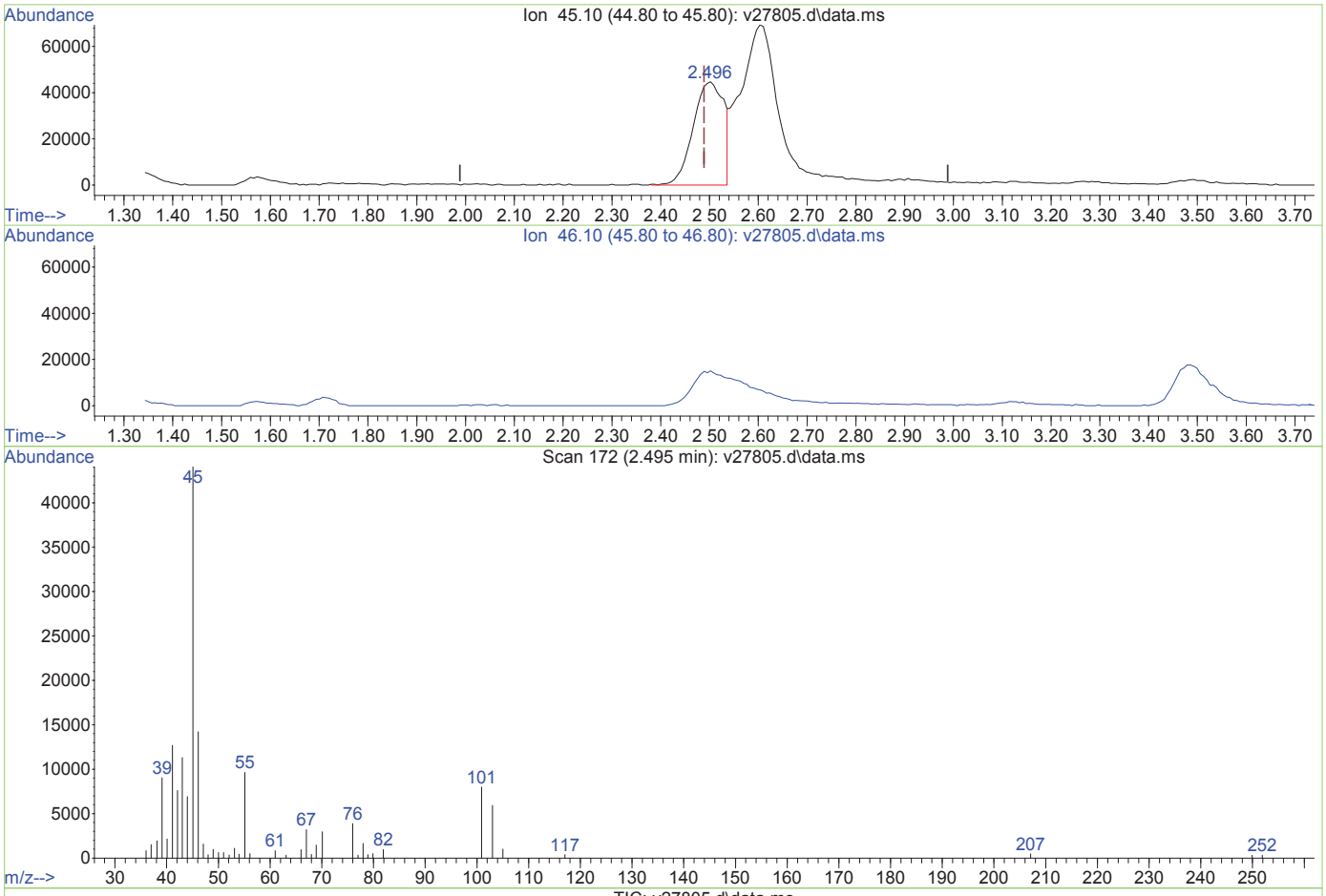
V27805.D edits: Ethanol

SGS ACCUTEST MC28118

Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140211\
Data File : v27805.d
Acq On : 11 Feb 2014 9:26 am
Operator : amym
Sample : cc1019-50
Misc : MS31105,MSV1048,,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 21 14:56:21 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



TIC: v27805.d\data.ms

(2) Ethanol (p)

2.495min (+0.006) 6162.22ug/L m

response 196279

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V27805.D edits: Ethanol

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140211\
Data File : v27810.d
Acq On : 11 Feb 2014 11:38 am
Operator : amym
Sample : mc28118-5
Misc : MS31111,MSV1048,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 21 15:02:27 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.508	65	149363	500.00	ug/L	-0.01
3) pentafluorobenzene	6.550	168	545511	50.00	ug/L	0.00

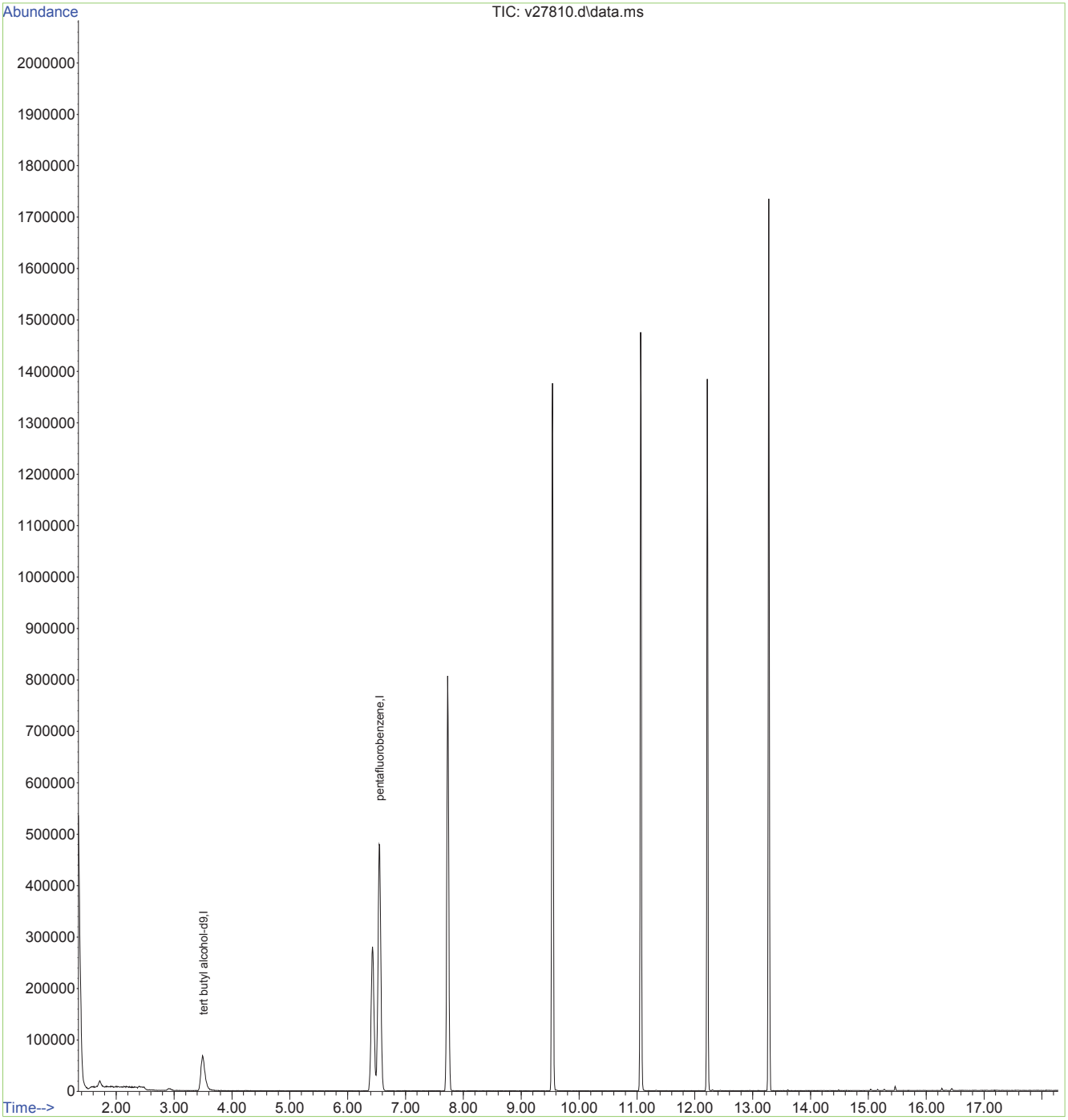
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140211\
Data File : v27810.d
Acq On : 11 Feb 2014 11:38 am
Operator : amym
Sample : mc28118-5
Misc : MS31111,MSV1048,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 21 15:02:27 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140211\
Data File : v27811.d
Acq On : 11 Feb 2014 12:05 pm
Operator : amym
Sample : mc28118-2
Misc : MS31111,MSV1048,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 21 15:02:43 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.502	65	251714	500.00	ug/L	#-0.02
3) pentafluorobenzene	6.548	168	542456	50.00	ug/L	-0.01

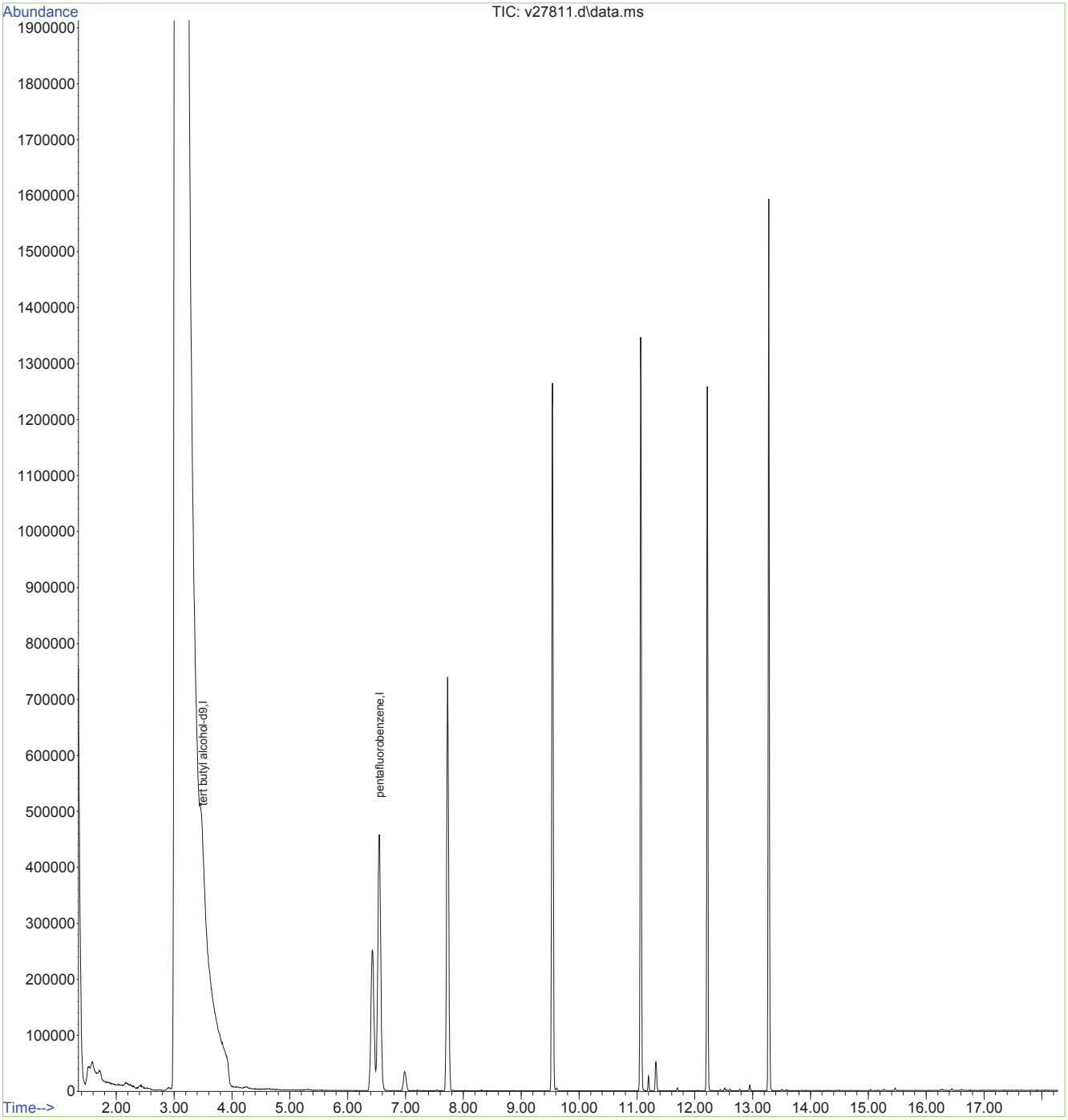
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140211\
Data File : v27811.d
Acq On : 11 Feb 2014 12:05 pm
Operator : amym
Sample : mc28118-2
Misc : MS31111,MSV1048,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 21 15:02:43 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140211\
Data File : v27813.d
Acq On : 11 Feb 2014 12:58 pm
Operator : amym
Sample : mc28118-3
Misc : MS31111,MSV1048,,,,5,1000
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 21 15:03:54 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.507	65	148475	500.00	ug/L	-0.02
3) pentafluorobenzene	6.551	168	499094	50.00	ug/L	0.00

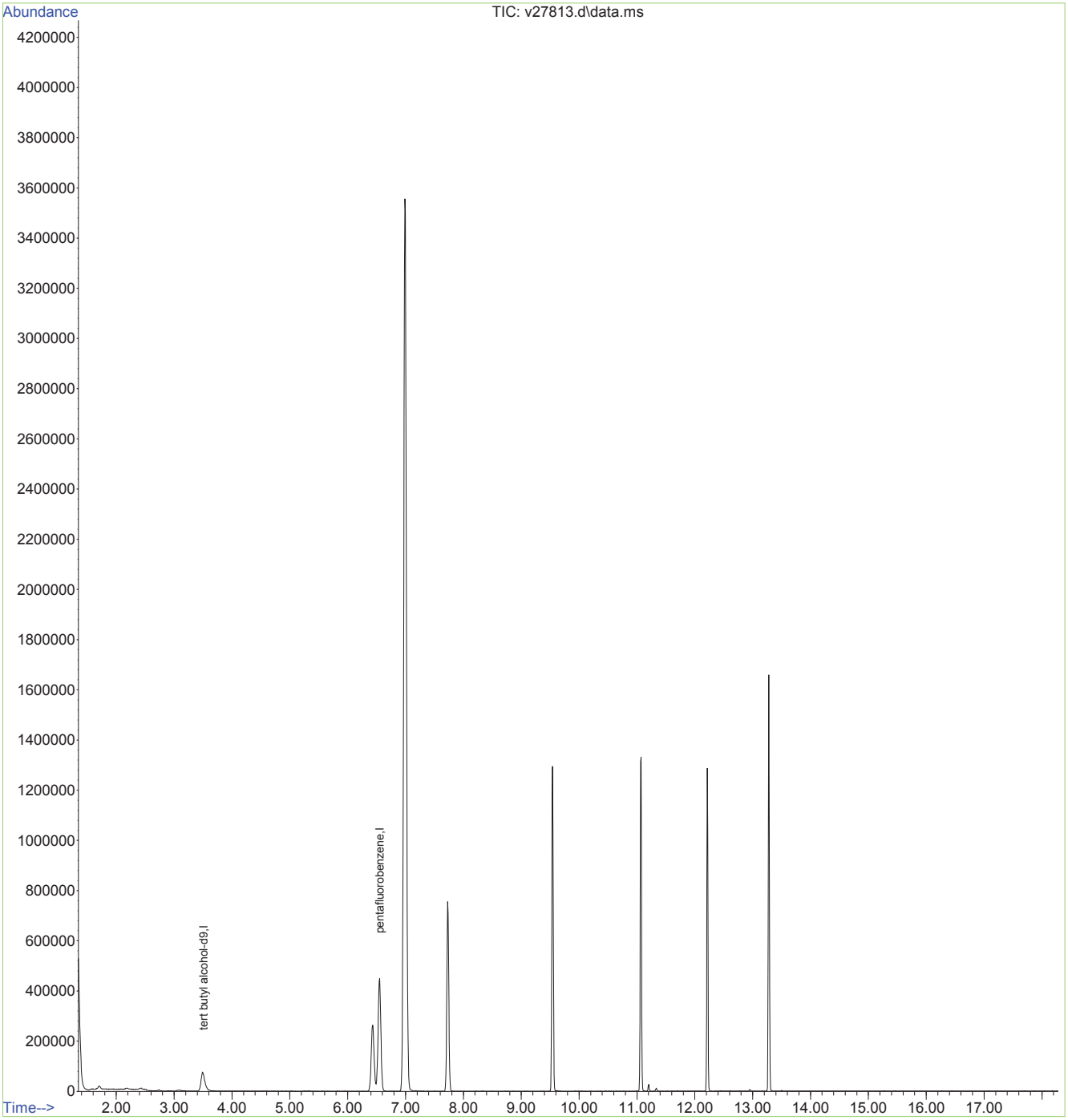
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140211\
Data File : v27813.d
Acq On : 11 Feb 2014 12:58 pm
Operator : amym
Sample : mc28118-3
Misc : MS31111,MSV1048,,,,5,1000
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 21 15:03:54 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140211\
Data File : v27814.d
Acq On : 11 Feb 2014 1:24 pm
Operator : amym
Sample : mc28118-4
Misc : MS31111,MSV1048,,,,5,1000
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 21 15:04:24 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.497	65	126891	500.00	ug/L	-0.03
3) pentafluorobenzene	6.544	168	462396	50.00	ug/L	-0.01

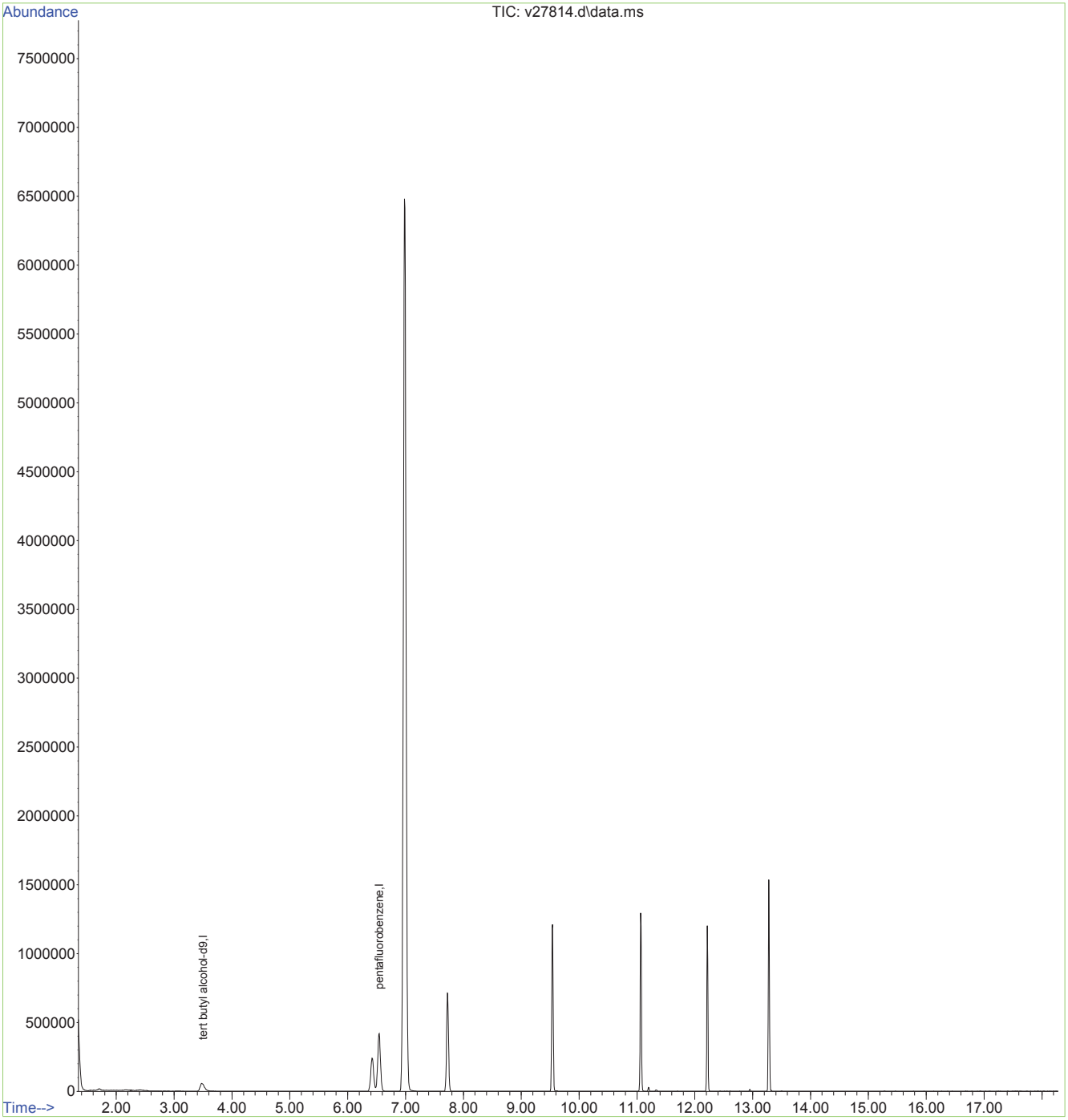
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140211\
Data File : v27814.d
Acq On : 11 Feb 2014 1:24 pm
Operator : amym
Sample : mc28118-4
Misc : MS31111,MSV1048,,,,5,1000
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 21 15:04:24 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140211\
Data File : v27815.d
Acq On : 11 Feb 2014 1:50 pm
Operator : amym
Sample : mc28118-1
Misc : MS31111,MSV1048,,,,5,20
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 21 15:04:43 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.507	65	165572	500.00	ug/L	-0.02
3) pentafluorobenzene	6.551	168	531334	50.00	ug/L	0.00

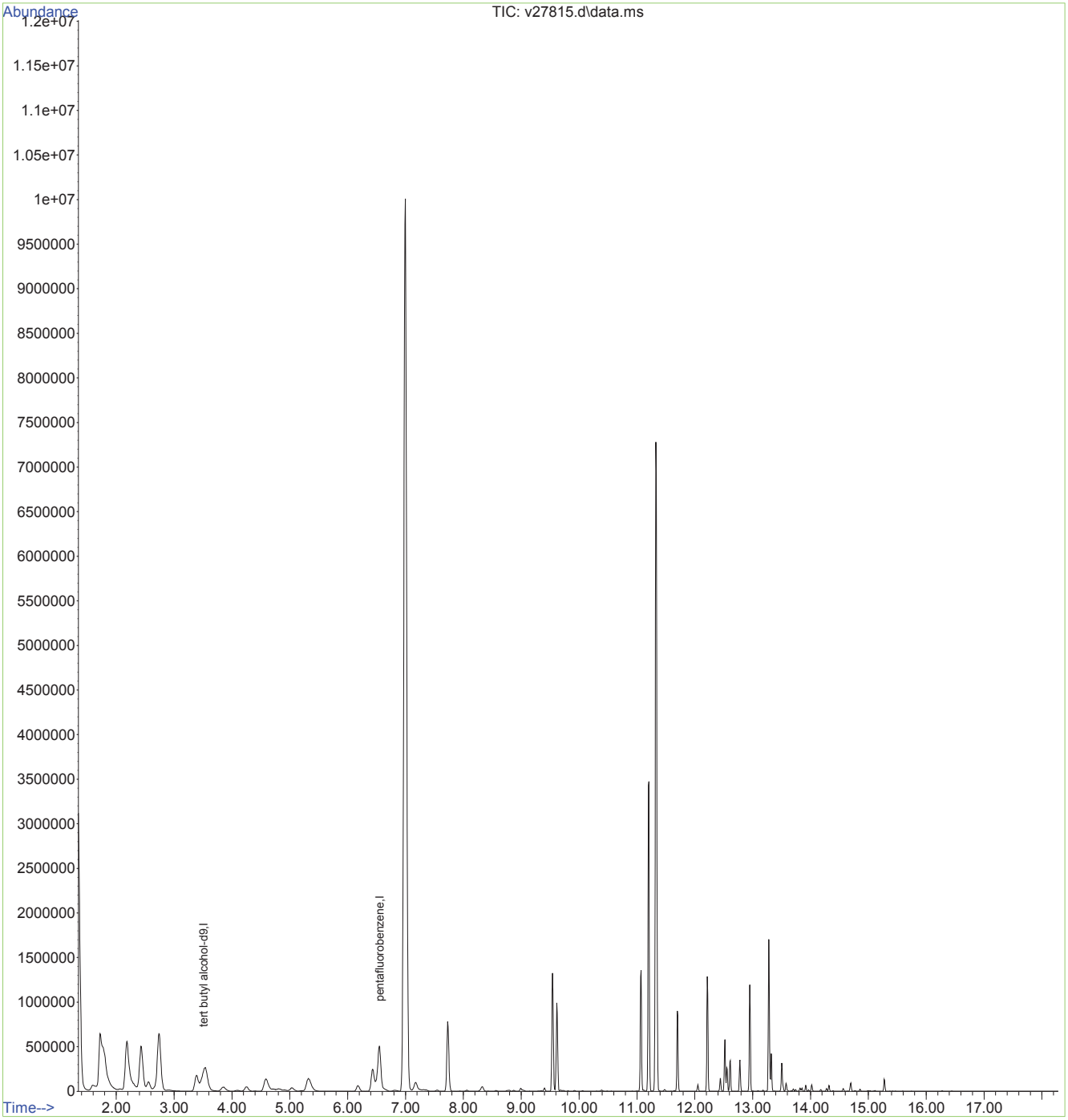
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140211\
Data File : v27815.d
Acq On : 11 Feb 2014 1:50 pm
Operator : amym
Sample : mc28118-1
Misc : MS31111,MSV1048,,,,5,20
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 21 15:04:43 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140211\
Data File : v27806.d
Acq On : 11 Feb 2014 9:52 am
Operator : amym
Sample : bs
Misc : MS31105,MSV1048,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 21 15:00:45 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

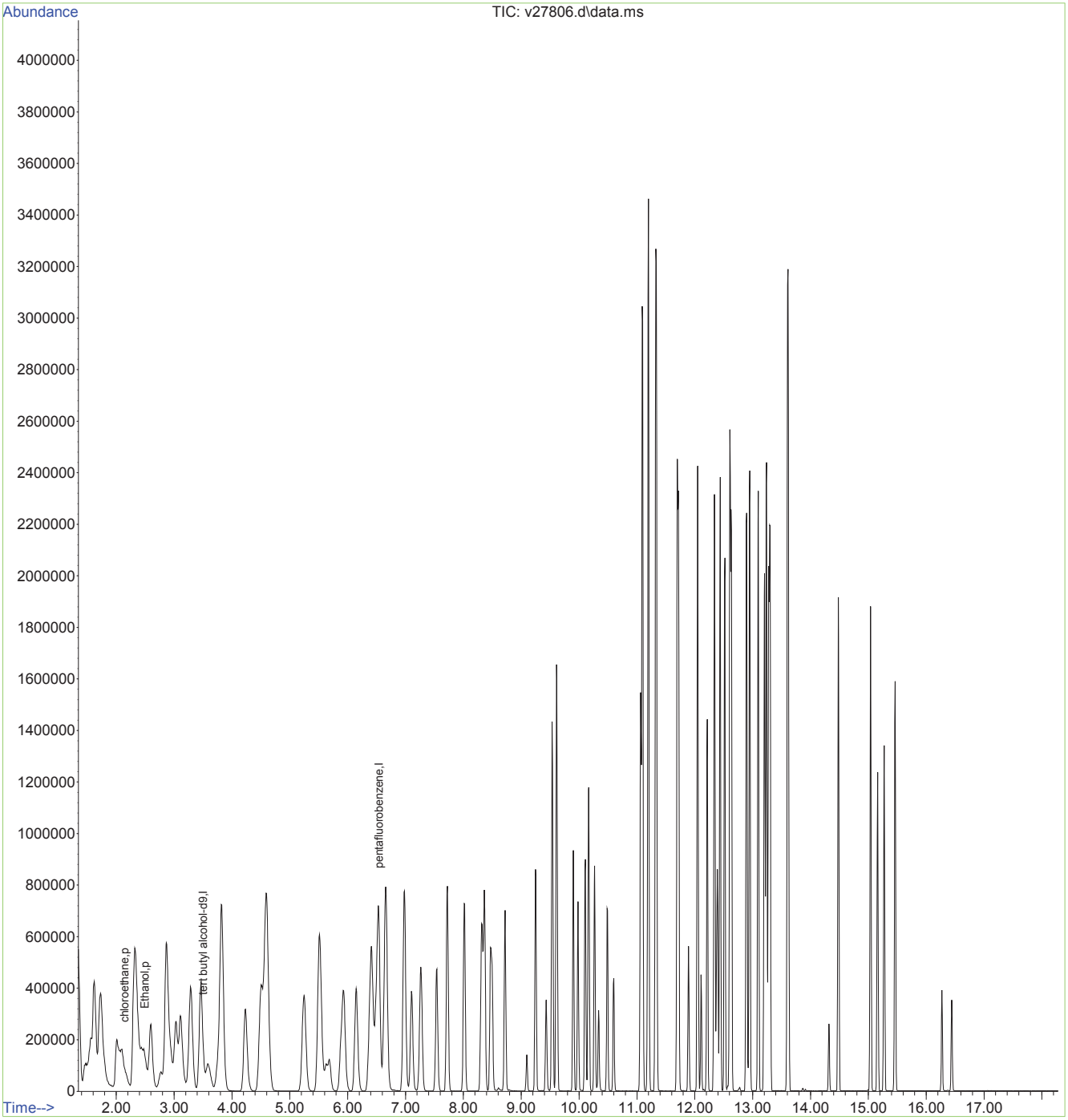
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.497	65	185101	500.00	ug/L	-0.03
3) pentafluorobenzene	6.538	168	595785	50.00	ug/L	-0.02
Target Compounds						Qvalue
2) Ethanol	2.489	45	188877m	6307.13	ug/L	
4) chloroethane	2.139	64	273280	59.70	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\msv\1\databackup\v140211\
Data File : v27806.d
Acq On : 11 Feb 2014 9:52 am
Operator : amym
Sample : bs
Misc : MS31105,MSV1048,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

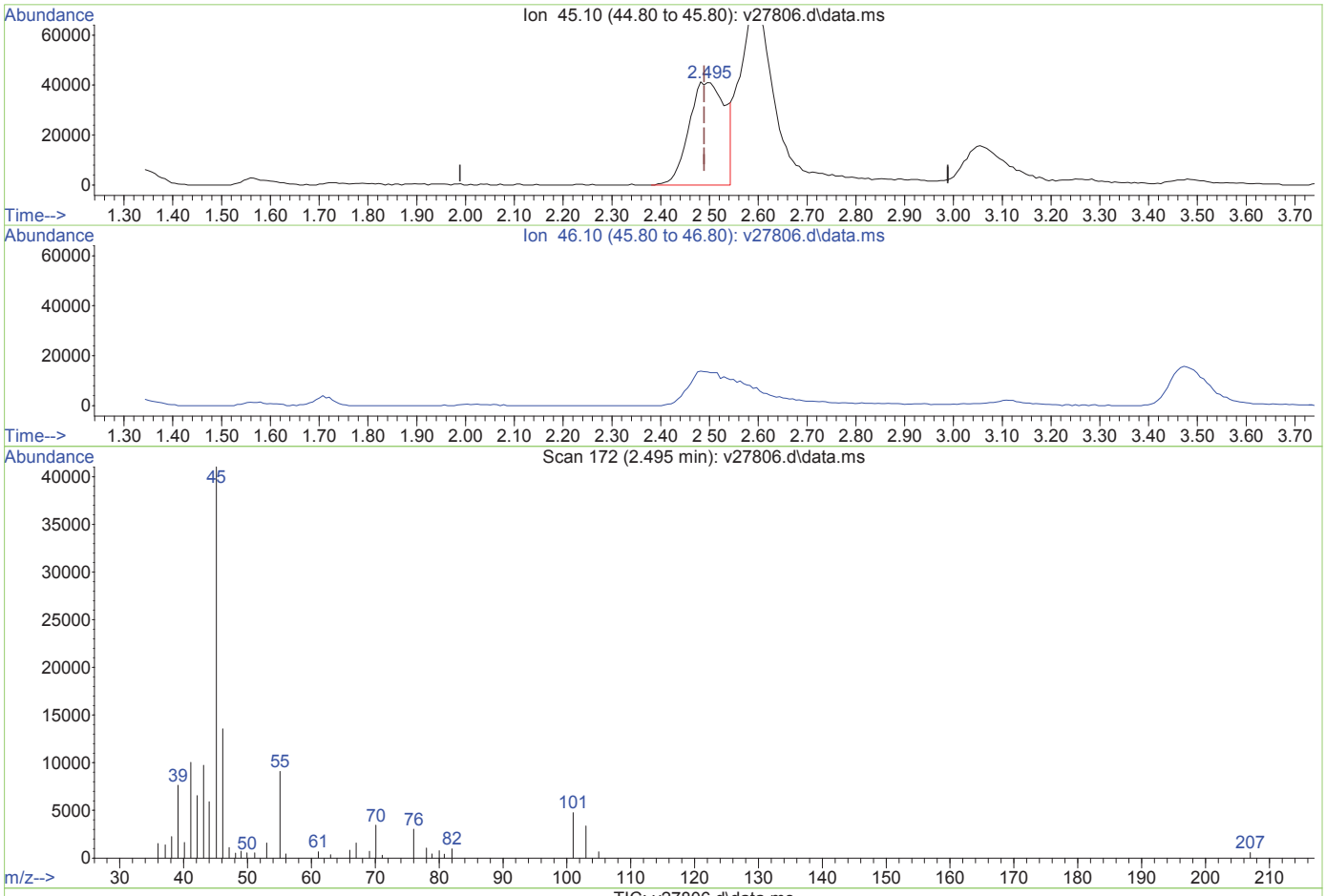
Quant Time: Nov 21 15:00:45 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : O:\msv\1\databackup\v140211\
Data File : v27806.d
Acq On : 11 Feb 2014 9:52 am
Operator : amym
Sample : bs
Misc : MS31105,MSV1048,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 21 14:59:37 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



TIC: v27806.d\data.ms

(2) Ethanol (p)

2.495min (+0.006) 7253.42ug/L

response 215214

Ion	Exp%	Act%
45.10	100	100
46.10	114.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

V27806.D edits: Ethanol

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140211\
Data File : v27807.d
Acq On : 11 Feb 2014 10:18 am
Operator : amym
Sample : bsd
Misc : MS31105,MSV1048,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 21 15:01:16 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

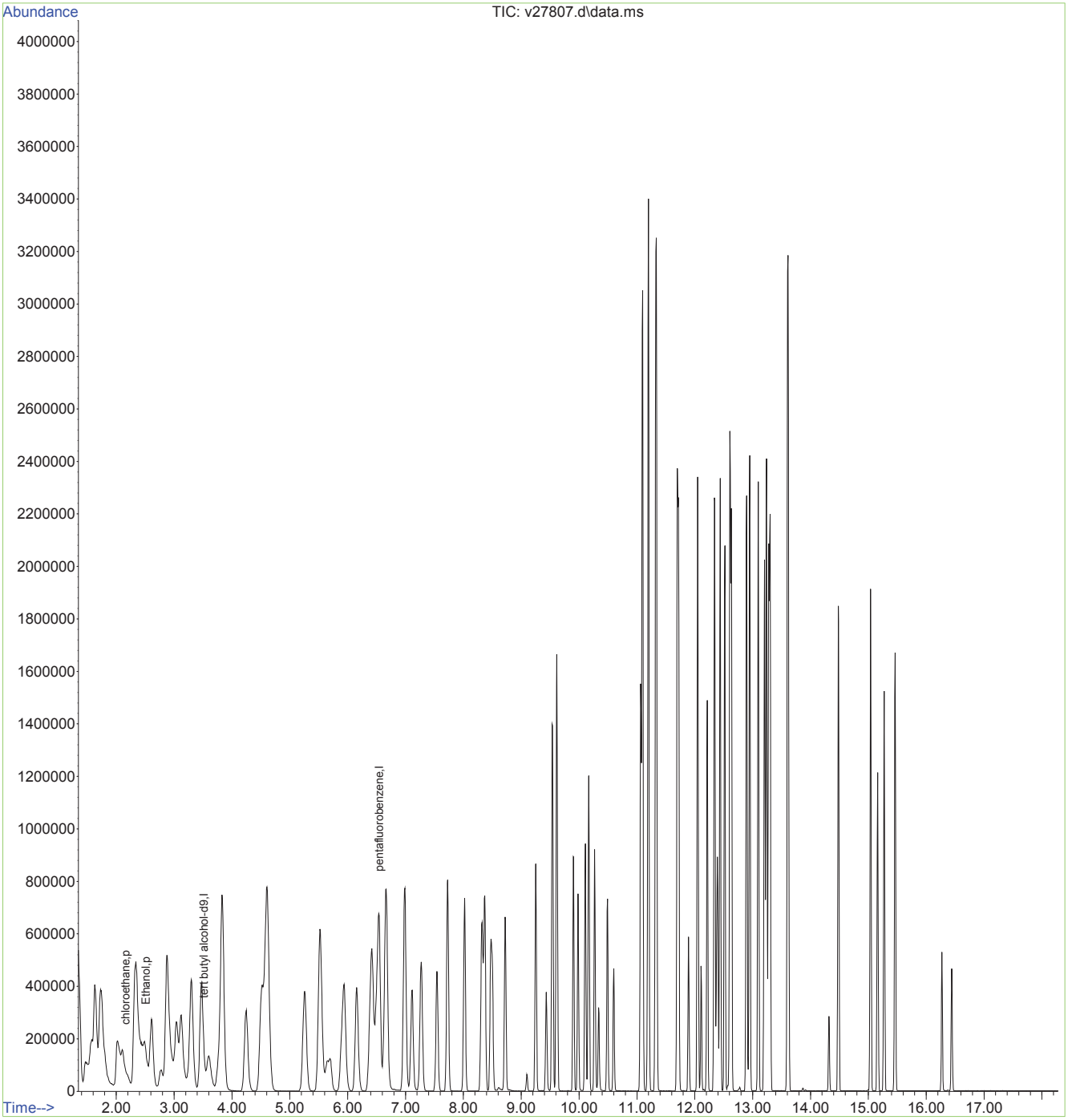
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.511	65	210324	500.00	ug/L	-0.01
3) pentafluorobenzene	6.545	168	597754	50.00	ug/L	-0.01
Target Compounds						Qvalue
2) Ethanol	2.508	45	238237	7054.10	ug/L	# 1
4) chloroethane	2.159	64	264009	57.45	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140211\
Data File : v27807.d
Acq On : 11 Feb 2014 10:18 am
Operator : amym
Sample : bsd
Misc : MS31105,MSV1048,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 21 15:01:16 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140211\
Data File : v27809.d
Acq On : 11 Feb 2014 11:12 am
Operator : amym
Sample : mb
Misc : MS31111,MSV1048,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 21 15:02:05 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.499	65	174117	500.00	ug/L	-0.02
3) pentafluorobenzene	6.542	168	517549	50.00	ug/L	-0.02

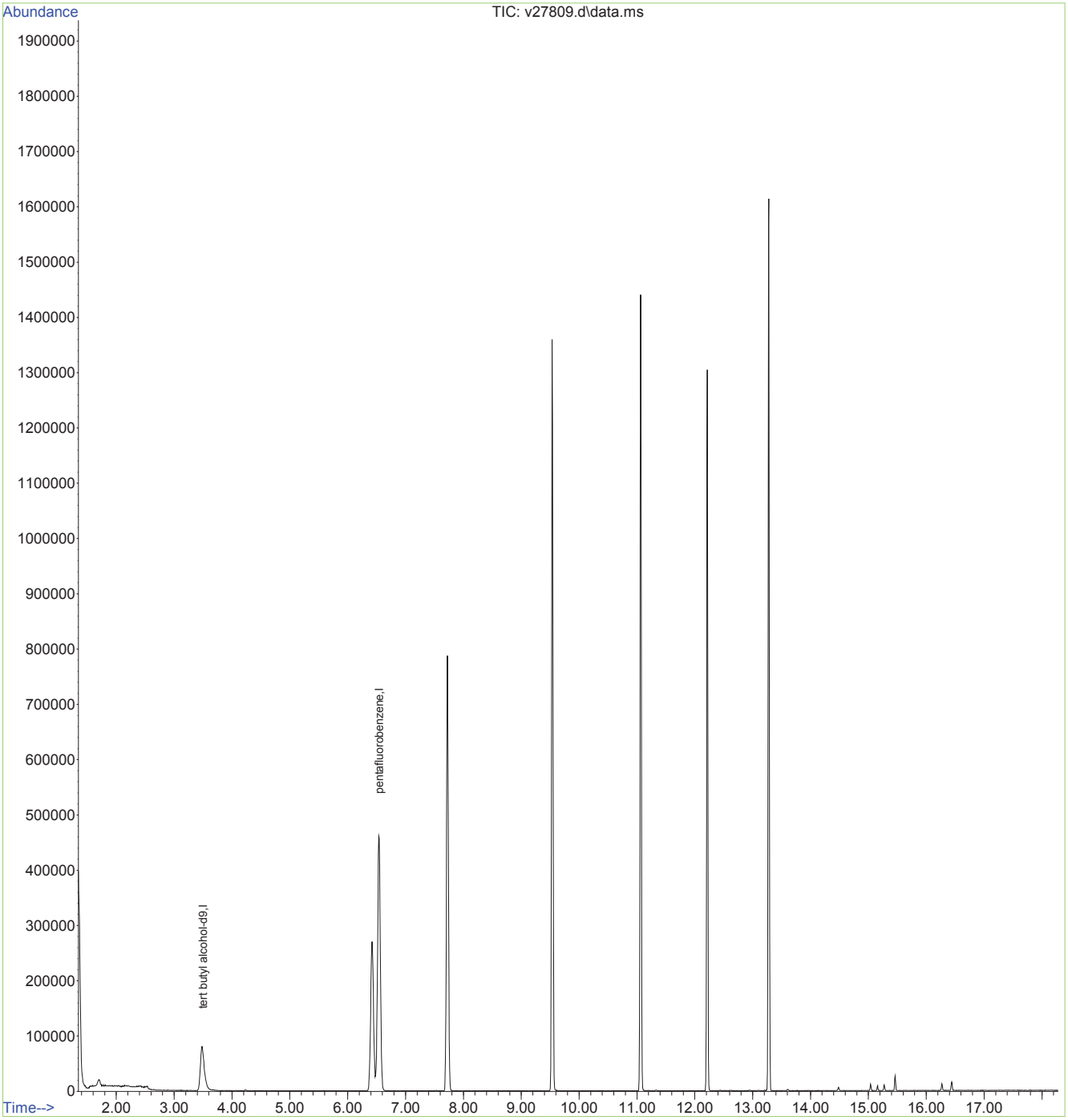
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140211\
Data File : v27809.d
Acq On : 11 Feb 2014 11:12 am
Operator : amym
Sample : mb
Misc : MS31111,MSV1048,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 21 15:02:05 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140211\
Data File : v27817.d
Acq On : 11 Feb 2014 2:44 pm
Operator : amym
Sample : mc28118-3ms
Misc : MS31111,MSV1048,,,,5,1000
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 21 15:05:42 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

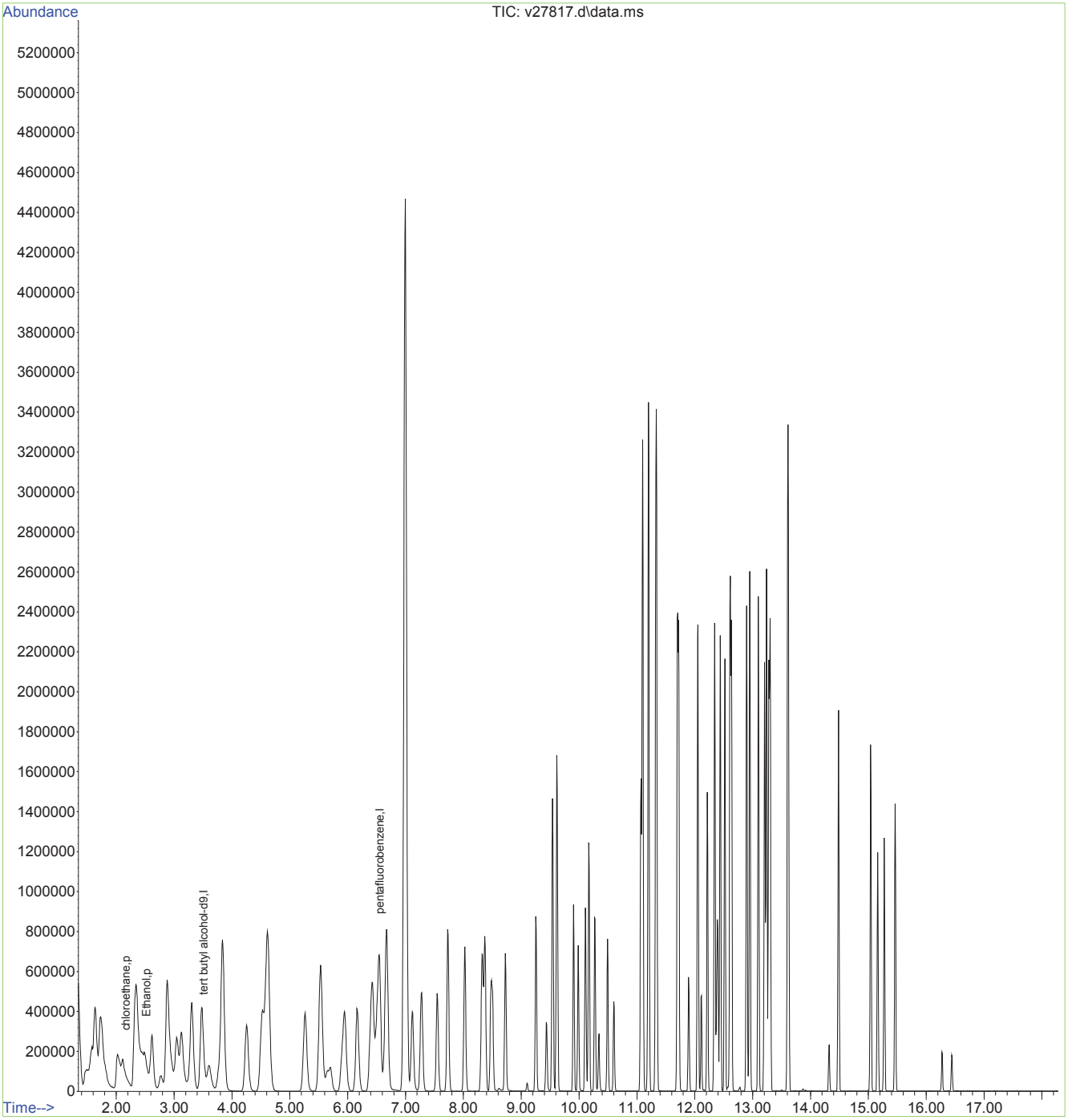
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.509	65	177849	500.00	ug/L	-0.01
3) pentafluorobenzene	6.553	168	590467	50.00	ug/L	0.00
Target Compounds						Qvalue
2) Ethanol	2.515	45	265816	9461.00	ug/L	# 1
4) chloroethane	2.164	64	260629	57.41	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140211\
Data File : v27817.d
Acq On : 11 Feb 2014 2:44 pm
Operator : amym
Sample : mc28118-3ms
Misc : MS31111,MSV1048,,,,5,1000
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 21 15:05:42 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140211\
Data File : v27818.d
Acq On : 11 Feb 2014 3:10 pm
Operator : amym
Sample : mc28118-3msd
Misc : MS31111,MSV1048,,,,5,1000
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 21 15:06:11 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration

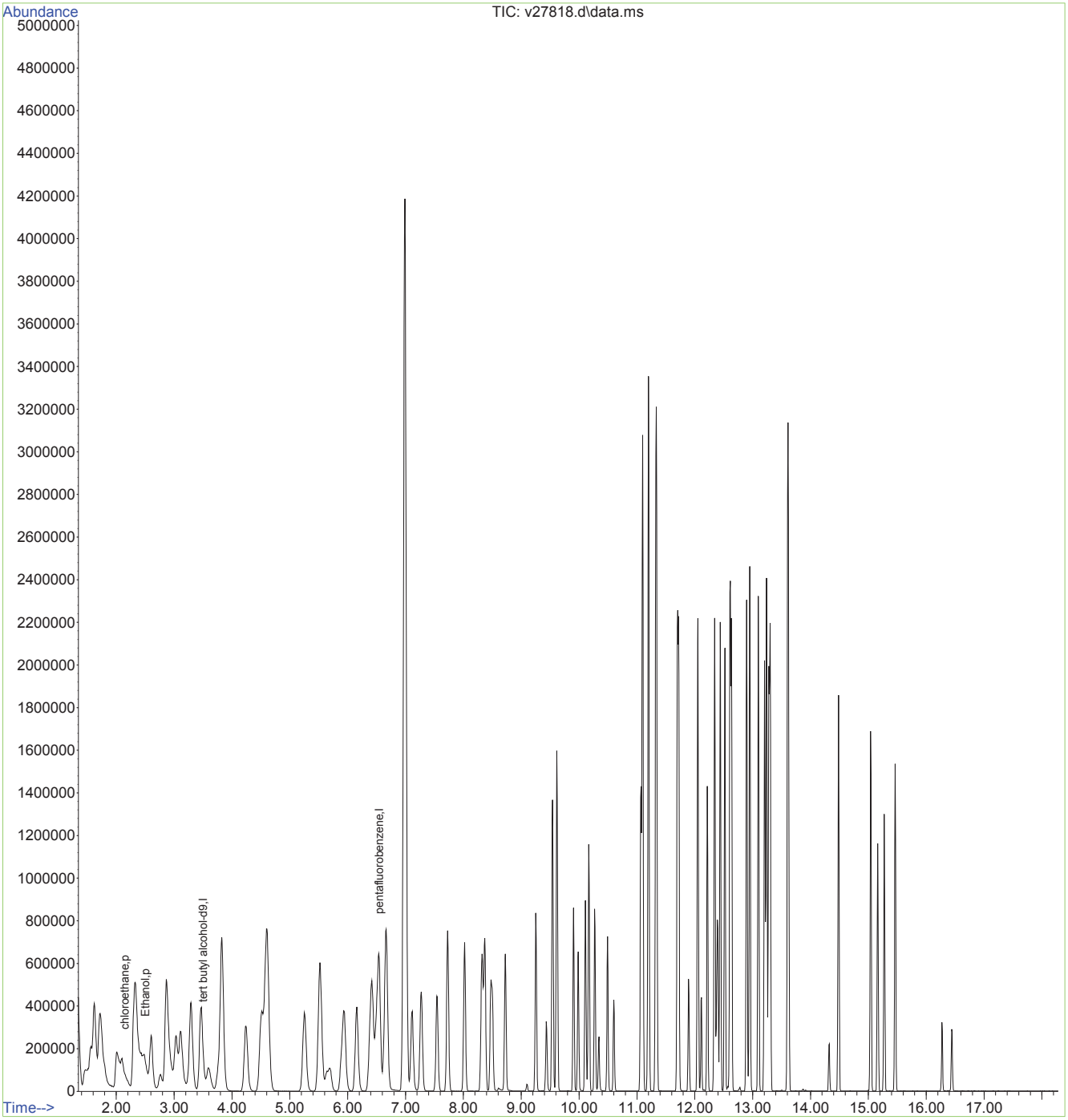
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.500	65	154120	500.00	ug/L	-0.02
3) pentafluorobenzene	6.545	168	560896	50.00	ug/L	-0.01
Target Compounds						Qvalue
2) Ethanol	2.504	45	240932	9917.63	ug/L	# 1
4) chloroethane	2.145	64	245936	57.03	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : O:\msv\1\databackup\v140211\
Data File : v27818.d
Acq On : 11 Feb 2014 3:10 pm
Operator : amym
Sample : mc28118-3msd
Misc : MS31111,MSV1048,,,,5,1000
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 21 15:06:11 2015
Quant Method : O:\msv\1\methods\v140107wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 12 12:03:49 2015
Response via : Initial Calibration



Internal Sample Tracking Chronicle

Shell Oil

Job No: MC28118

URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC28118-1 Collected: 03-FEB-14 10:30 By: DMMM Received: 05-FEB-14 By: BA P59-ROX-020314						
MC28118-1	SW846 8011	07-FEB-14 13:37	CZ	06-FEB-14	NE	V8011SL
MC28118-1	SW846 8270D	10-FEB-14 14:41	WK	07-FEB-14	PA	AB8270SL+
MC28118-1	SW846 8270D BY SIM	10-FEB-14 16:17	MR	07-FEB-14	PA	B8270SIMSL
MC28118-1	SW846 8260C	11-FEB-14 12:31	AMY			V8260SL+
MC28118-1	SW846 8260C	11-FEB-14 13:50	AMY			V8260SL+
MC28118-1	SW846 8270D	14-FEB-14 20:02	KR	07-FEB-14	PA	AB8270SL+
MC28118-2 Collected: 03-FEB-14 10:50 By: DMMM Received: 05-FEB-14 By: BA P57-ROX-020314-EB						
MC28118-2	SW846 8011	07-FEB-14 14:01	CZ	06-FEB-14	NE	V8011SL
MC28118-2	SW846 8270D	10-FEB-14 15:04	WK	07-FEB-14	PA	AB8270SL+
MC28118-2	SW846 8270D BY SIM	10-FEB-14 16:40	MR	07-FEB-14	PA	B8270SIMSL
MC28118-2	SW846 8260C	11-FEB-14 12:05	AMY			V8260SL+
MC28118-3 Collected: 03-FEB-14 11:55 By: DMMM Received: 05-FEB-14 By: BA P57-ROX-020314						
MC28118-3	SW846 8011	07-FEB-14 14:24	CZ	06-FEB-14	NE	V8011SL
MC28118-3	SW846 8270D	10-FEB-14 15:26	WK	07-FEB-14	PA	AB8270SL+
MC28118-3	SW846 8270D BY SIM	10-FEB-14 17:02	MR	07-FEB-14	PA	B8270SIMSL
MC28118-3	SW846 8260C	11-FEB-14 12:58	AMY			V8260SL+
MC28118-4 Collected: 03-FEB-14 14:10 By: DMMM Received: 05-FEB-14 By: BA P58-ROX-020314						
MC28118-4	SW846 8011	07-FEB-14 15:13	CZ	06-FEB-14	NE	V8011SL
MC28118-4	SW846 8270D	10-FEB-14 15:49	WK	07-FEB-14	PA	AB8270SL+
MC28118-4	SW846 8270D BY SIM	10-FEB-14 17:25	MR	07-FEB-14	PA	B8270SIMSL
MC28118-4	SW846 8260C	11-FEB-14 13:24	AMY			V8260SL+
MC28118-4	SW846 8260C	11-FEB-14 14:17	AMY			V8260SL+
MC28118-4	SW846 8270D	14-FEB-14 20:26	KR	07-FEB-14	PA	AB8270SL+
MC28118-5 Collected: 03-FEB-14 00:00 By: DMMM Received: 05-FEB-14 By: BA TB-ROX-020314-HCL						
MC28118-5	SW846 8260C	11-FEB-14 11:38	AMY			V8260SL+

Internal Sample Tracking Chronicle

Shell Oil

Job No: MC28118

URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC28118-6 Collected: 03-FEB-14 00:00 By: DMMM Received: 05-FEB-14 By: BA TB-ROX-020314-ST						
MC28118-6	SW846 8011	07-FEB-14 15:37	CZ	06-FEB-14	NE	V8011SL

SGS Accutest Internal Chain of Custody

Job Number: MC28118
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL
Received: 02/05/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC28118-1.1	Walk In Ref #22	Michael DiBuono	02/07/14 08:40	Retrieve from Storage
MC28118-1.1	Scott Parsick		03/25/14 11:35	Disposed
MC28118-1.3	VOC Ref #4	Nicole Estey	02/06/14 19:11	Retrieve from Storage
MC28118-1.3	Nicole Estey	VOC Ref #4	02/07/14 20:45	Return to Storage
MC28118-1.3	Scott Parsick		03/25/14 11:35	Disposed
MC28118-1.6	VOC Ref #4	Amy Min Yang	02/11/14 11:16	Retrieve from Storage
MC28118-1.6	Amy Min Yang	GCMSV	02/11/14 11:17	Load on Instrument
MC28118-1.6	GCMSV	Amy Min Yang	02/12/14 11:22	Unload from Instrument
MC28118-1.6	Amy Min Yang	VOC Ref #4	02/12/14 11:22	Return to Storage
MC28118-1.6	Scott Parsick		03/25/14 11:35	Disposed
MC28118-2.2	Walk In Ref #22	Michael DiBuono	02/07/14 08:40	Retrieve from Storage
MC28118-2.2	Scott Parsick		03/25/14 11:35	Disposed
MC28118-2.3	VOC Ref #4	Nicole Estey	02/06/14 19:11	Retrieve from Storage
MC28118-2.3	Nicole Estey	VOC Ref #4	02/07/14 20:45	Return to Storage
MC28118-2.3	Scott Parsick		03/25/14 11:35	Disposed
MC28118-2.5	VOC Ref #4	Amy Min Yang	02/11/14 11:16	Retrieve from Storage
MC28118-2.5	Amy Min Yang	GCMSV	02/11/14 11:17	Load on Instrument
MC28118-2.5	GCMSV	Amy Min Yang	02/12/14 11:22	Unload from Instrument
MC28118-2.5	Amy Min Yang	VOC Ref #4	02/12/14 11:22	Return to Storage
MC28118-2.5	Scott Parsick		03/25/14 11:35	Disposed
MC28118-3.1	Walk In Ref #22	Michael DiBuono	02/07/14 08:40	Retrieve from Storage
MC28118-3.1	Scott Parsick		03/25/14 11:35	Disposed
MC28118-3.3	VOC Ref #4	Nicole Estey	02/06/14 19:11	Retrieve from Storage
MC28118-3.3	Nicole Estey	VOC Ref #4	02/07/14 20:45	Return to Storage
MC28118-3.3	Scott Parsick		03/25/14 11:35	Disposed
MC28118-3.5	VOC Ref #4	Amy Min Yang	02/11/14 11:16	Retrieve from Storage
MC28118-3.5	Amy Min Yang	GCMSV	02/11/14 11:17	Load on Instrument
MC28118-3.5	GCMSV	Amy Min Yang	02/12/14 11:22	Unload from Instrument
MC28118-3.5	Amy Min Yang	VOC Ref #4	02/12/14 11:22	Return to Storage
MC28118-3.5	Scott Parsick		03/25/14 11:35	Disposed
MC28118-4.1	Walk In Ref #22	Michael DiBuono	02/07/14 08:40	Retrieve from Storage
MC28118-4.1	Scott Parsick		03/25/14 11:35	Disposed
MC28118-4.3	VOC Ref #4	Nicole Estey	02/06/14 19:11	Retrieve from Storage
MC28118-4.3	Nicole Estey	VOC Ref #4	02/07/14 20:45	Return to Storage

SGS Accutest Internal Chain of Custody

Job Number: MC28118
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL
Received: 02/05/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC28118-4.3	Scott Parsick		03/25/14 11:35	Disposed
MC28118-4.5	VOC Ref #4	Amy Min Yang	02/11/14 11:16	Retrieve from Storage
MC28118-4.5	Amy Min Yang	GCMSV	02/11/14 11:17	Load on Instrument
MC28118-4.5	GCMSV	Amy Min Yang	02/12/14 11:22	Unload from Instrument
MC28118-4.5	Amy Min Yang	VOC Ref #4	02/12/14 11:22	Return to Storage
MC28118-4.5	Scott Parsick		03/25/14 11:35	Disposed
MC28118-5.1	VOC Ref #4	Amy Min Yang	02/11/14 11:16	Retrieve from Storage
MC28118-5.1	Amy Min Yang	GCMSV	02/11/14 11:17	Load on Instrument
MC28118-5.1	GCMSV	Amy Min Yang	02/12/14 11:22	Unload from Instrument
MC28118-5.1	Amy Min Yang	VOC Ref #4	02/12/14 11:22	Return to Storage
MC28118-5.1	Scott Parsick		03/25/14 11:35	Disposed
MC28118-6.1	VOC Ref #4	Nicole Estey	02/06/14 19:11	Retrieve from Storage
MC28118-6.1	Nicole Estey	VOC Ref #4	02/07/14 20:45	Return to Storage
MC28118-6.1	Scott Parsick		03/25/14 11:35	Disposed

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC28118
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1048-MB	V27809.D	1	02/11/14	AMY	n/a	n/a	MSV1048

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC28118-1, MC28118-2, MC28118-3, MC28118-4, MC28118-5

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	4.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.77	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	

Method Blank Summary

Job Number: MC28118
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1048-MB	V27809.D	1	02/11/14	AMY	n/a	n/a	MSV1048

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC28118-1, MC28118-2, MC28118-3, MC28118-4, MC28118-5

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
123-91-1	1,4-Dioxane	ND	25	16	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	3.9	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.91	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

Method Blank Summary

Job Number: MC28118
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1048-MB	V27809.D	1	02/11/14	AMY	n/a	n/a	MSV1048

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC28118-1, MC28118-2, MC28118-3, MC28118-4, MC28118-5

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	103%	70-130%
2037-26-5	Toluene-D8	96%	70-130%
460-00-4	4-Bromofluorobenzene	105%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC28118
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1048-BS	V27806.D	1	02/11/14	AMY	n/a	n/a	MSV1048
MSV1048-BSD	V27807.D	1	02/11/14	AMY	n/a	n/a	MSV1048

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC28118-1, MC28118-2, MC28118-3, MC28118-4, MC28118-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50	38.0	76	37.3	75	2	70-130/25
107-02-8	Acrolein	50	55.2	110	55.1	110	0	70-130/25
107-13-1	Acrylonitrile	100	79.4	79	83.6	84	5	70-130/25
71-43-2	Benzene	50	50.1	100	48.3	97	4	70-130/25
108-86-1	Bromobenzene	50	53.9	108	52.9	106	2	70-130/25
74-97-5	Bromochloromethane	50	49.4	99	49.1	98	1	70-130/25
75-27-4	Bromodichloromethane	50	51.5	103	50.2	100	3	70-130/25
75-25-2	Bromoform	50	41.1	82	41.1	82	0	70-130/25
74-83-9	Bromomethane	50	47.4	95	45.9	92	3	70-130/25
78-93-3	2-Butanone (MEK)	50	38.8	78	40.6	81	5	70-130/25
104-51-8	n-Butylbenzene	50	58.2	116	56.2	112	3	70-130/25
135-98-8	sec-Butylbenzene	50	59.9	120	57.6	115	4	70-130/25
98-06-6	tert-Butylbenzene	50	57.2	114	55.4	111	3	70-130/25
75-15-0	Carbon disulfide	50	41.9	84	39.5	79	6	70-130/25
56-23-5	Carbon tetrachloride	50	50.3	101	47.0	94	7	70-130/25
108-90-7	Chlorobenzene	50	45.8	92	44.4	89	3	70-130/25
75-00-3	Chloroethane	50	59.7	119	57.4	115	4	70-130/25
110-75-8	2-Chloroethyl vinyl ether	50	190	380* [a]	86.5	173* [a]	75* [a]	70-130/25
67-66-3	Chloroform	50	47.6	95	46.6	93	2	70-130/25
74-87-3	Chloromethane	50	48.4	97	46.2	92	5	70-130/25
95-49-8	o-Chlorotoluene	50	53.9	108	52.2	104	3	70-130/25
106-43-4	p-Chlorotoluene	50	54.5	109	52.9	106	3	70-130/25
124-48-1	Dibromochloromethane	50	53.0	106	52.9	106	0	70-130/25
95-50-1	1,2-Dichlorobenzene	50	50.1	100	48.9	98	2	70-130/25
541-73-1	1,3-Dichlorobenzene	50	50.8	102	49.4	99	3	70-130/25
106-46-7	1,4-Dichlorobenzene	50	50.3	101	49.5	99	2	70-130/25
75-71-8	Dichlorodifluoromethane	50	42.5	85	41.5	83	2	70-130/25
75-34-3	1,1-Dichloroethane	50	49.6	99	48.6	97	2	70-130/25
107-06-2	1,2-Dichloroethane	50	46.1	92	45.6	91	1	70-130/25
75-35-4	1,1-Dichloroethene	50	47.9	96	46.8	94	2	70-130/25
156-59-2	cis-1,2-Dichloroethene	50	50.8	102	50.2	100	1	70-130/25
156-60-5	trans-1,2-Dichloroethene	50	48.8	98	47.2	94	3	70-130/25
78-87-5	1,2-Dichloropropane	50	49.3	99	48.3	97	2	70-130/25
142-28-9	1,3-Dichloropropane	50	49.5	99	48.8	98	1	70-130/25
594-20-7	2,2-Dichloropropane	50	57.6	115	54.4	109	6	70-130/25
563-58-6	1,1-Dichloropropene	50	48.6	97	46.6	93	4	70-130/25

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC28118
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1048-BS	V27806.D	1	02/11/14	AMY	n/a	n/a	MSV1048
MSV1048-BSD	V27807.D	1	02/11/14	AMY	n/a	n/a	MSV1048

The QC reported here applies to the following samples: Method: SW846 8260C

MC28118-1, MC28118-2, MC28118-3, MC28118-4, MC28118-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	50	46.2	92	45.3	91	2	70-130/25
10061-02-6	trans-1,3-Dichloropropene	50	47.2	94	47.0	94	0	70-130/25
123-91-1	1,4-Dioxane	250	221	88	233	93	5	70-130/25
97-63-2	Ethyl methacrylate	50	45.3	91	46.6	93	3	77-137/25
100-41-4	Ethylbenzene	50	52.2	104	50.2	100	4	70-130/25
87-68-3	Hexachlorobutadiene	50	56.7	113	55.4	111	2	70-130/25
591-78-6	2-Hexanone	50	38.7	77	40.1	80	4	70-130/25
98-82-8	Isopropylbenzene	50	61.2	122	58.8	118	4	70-130/25
99-87-6	p-Isopropyltoluene	50	57.7	115	55.6	111	4	70-130/25
1634-04-4	Methyl Tert Butyl Ether	50	53.4	107	53.4	107	0	70-130/25
108-10-1	4-Methyl-2-pentanone (MIBK)	50	50.2	100	52.6	105	5	70-130/25
74-95-3	Methylene bromide	50	47.0	94	46.7	93	1	70-130/25
75-09-2	Methylene chloride	50	46.3	93	45.6	91	2	70-130/25
91-20-3	Naphthalene	50	51.7	103	56.9	114	10	70-130/25
103-65-1	n-Propylbenzene	50	58.0	116	56.3	113	3	70-130/25
100-42-5	Styrene	50	48.4	97	47.2	94	3	70-130/25
630-20-6	1,1,1,2-Tetrachloroethane	50	51.0	102	49.3	99	3	70-130/25
79-34-5	1,1,2,2-Tetrachloroethane	50	52.9	106	54.7	109	3	70-130/25
127-18-4	Tetrachloroethene	50	50.9	102	48.8	98	4	70-130/25
108-88-3	Toluene	50	53.0	106	51.3	103	3	70-130/25
87-61-6	1,2,3-Trichlorobenzene	50	58.0	116	60.7	121	5	70-130/25
120-82-1	1,2,4-Trichlorobenzene	50	60.6	121	60.9	122	0	70-130/25
71-55-6	1,1,1-Trichloroethane	50	51.9	104	49.4	99	5	70-130/25
79-00-5	1,1,2-Trichloroethane	50	49.6	99	49.3	99	1	70-130/25
79-01-6	Trichloroethene	50	50.4	101	48.3	97	4	70-130/25
75-69-4	Trichlorofluoromethane	50	53.1	106	50.1	100	6	70-130/25
96-18-4	1,2,3-Trichloropropane	50	53.1	106	55.1	110	4	70-130/25
95-63-6	1,2,4-Trimethylbenzene	50	58.6	117	56.4	113	4	70-130/25
108-67-8	1,3,5-Trimethylbenzene	50	59.1	118	57.1	114	3	70-130/25
108-05-4	Vinyl Acetate	50	49.9	100	50.4	101	1	70-130/25
75-01-4	Vinyl chloride	50	46.5	93	45.1	90	3	70-130/25
	m,p-Xylene	100	87.8	88	85.4	85	3	70-130/25
95-47-6	o-Xylene	50	44.8	90	43.1	86	4	70-130/25
1330-20-7	Xylene (total)	150	133	89	129	86	3	70-130/25

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC28118
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1048-BS	V27806.D	1	02/11/14	AMY	n/a	n/a	MSV1048
MSV1048-BSD	V27807.D	1	02/11/14	AMY	n/a	n/a	MSV1048

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC28118-1, MC28118-2, MC28118-3, MC28118-4, MC28118-5

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	96%	97%	70-130%
2037-26-5	Toluene-D8	98%	98%	70-130%
460-00-4	4-Bromofluorobenzene	102%	103%	70-130%

(a) Outside control limits. Associated samples are non-detect for this compound.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC28118
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC28118-3MS	V27817.D	1000	02/11/14	AMY	n/a	n/a	MSV1048
MC28118-3MSD	V27818.D	1000	02/11/14	AMY	n/a	n/a	MSV1048
MC28118-3	V27813.D	1000	02/11/14	AMY	n/a	n/a	MSV1048

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC28118-1, MC28118-2, MC28118-3, MC28118-4, MC28118-5

CAS No.	Compound	MC28118-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		50000	25600	51* a	50000	27600	55* a	8	70-130/30
107-02-8	Acrolein	ND		50000	42700	85	50000	42000	84	2	70-130/30
107-13-1	Acrylonitrile	ND		100000	79400	79	100000	76400	76	4	70-130/30
71-43-2	Benzene	261000		50000	296000	70	50000	297000	72	0	70-130/30
108-86-1	Bromobenzene	ND		50000	52900	106	50000	53600	107	1	70-130/30
74-97-5	Bromochloromethane	ND		50000	48500	97	50000	48800	98	1	70-130/30
75-27-4	Bromodichloromethane	ND		50000	51600	103	50000	51800	104	0	70-130/30
75-25-2	Bromoform	ND		50000	40600	81	50000	40100	80	1	70-130/30
74-83-9	Bromomethane	ND		50000	45500	91	50000	46200	92	2	70-130/30
78-93-3	2-Butanone (MEK)	ND		50000	32600	65* a	50000	32500	65* a	0	70-130/30
104-51-8	n-Butylbenzene	ND		50000	56800	114	50000	58000	116	2	70-130/30
135-98-8	sec-Butylbenzene	ND		50000	58500	117	50000	59600	119	2	70-130/30
98-06-6	tert-Butylbenzene	ND		50000	58100	116	50000	59100	118	2	70-130/30
75-15-0	Carbon disulfide	ND		50000	40200	80	50000	41000	82	2	70-130/30
56-23-5	Carbon tetrachloride	ND		50000	49400	99	50000	48800	98	1	70-130/30
108-90-7	Chlorobenzene	ND		50000	45000	90	50000	45500	91	1	70-130/30
75-00-3	Chloroethane	ND		50000	57400	115	50000	57000	114	1	70-130/30
110-75-8	2-Chloroethyl vinyl ether	ND		50000	53200	106	50000	46100	92	14	70-130/30
67-66-3	Chloroform	ND		50000	47900	96	50000	48100	96	0	70-130/30
74-87-3	Chloromethane	ND		50000	51200	102	50000	47100	94	8	70-130/30
95-49-8	o-Chlorotoluene	ND		50000	51900	104	50000	53600	107	3	70-130/30
106-43-4	p-Chlorotoluene	ND		50000	53500	107	50000	54300	109	1	70-130/30
124-48-1	Dibromochloromethane	ND		50000	53000	106	50000	53000	106	0	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		50000	48400	97	50000	49500	99	2	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		50000	49000	98	50000	50400	101	3	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		50000	48900	98	50000	50000	100	2	70-130/30
75-71-8	Dichlorodifluoromethane	ND		50000	46700	93	50000	45700	91	2	70-130/30
75-34-3	1,1-Dichloroethane	ND		50000	48900	98	50000	49300	99	1	70-130/30
107-06-2	1,2-Dichloroethane	ND		50000	47800	96	50000	47700	95	0	70-130/30
75-35-4	1,1-Dichloroethene	ND		50000	47200	94	50000	47800	96	1	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		50000	49900	100	50000	50100	100	0	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		50000	47600	95	50000	48000	96	1	70-130/30
78-87-5	1,2-Dichloropropane	ND		50000	48700	97	50000	49200	98	1	70-130/30
142-28-9	1,3-Dichloropropane	ND		50000	48600	97	50000	49000	98	1	70-130/30
594-20-7	2,2-Dichloropropane	ND		50000	55600	111	50000	55200	110	1	70-130/30
563-58-6	1,1-Dichloropropene	ND		50000	47000	94	50000	46800	94	0	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC28118
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC28118-3MS	V27817.D	1000	02/11/14	AMY	n/a	n/a	MSV1048
MC28118-3MSD	V27818.D	1000	02/11/14	AMY	n/a	n/a	MSV1048
MC28118-3	V27813.D	1000	02/11/14	AMY	n/a	n/a	MSV1048

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC28118-1, MC28118-2, MC28118-3, MC28118-4, MC28118-5

CAS No.	Compound	MC28118-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		50000	44700	89	50000	45100	90	1	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		50000	46500	93	50000	46600	93	0	70-130/30
123-91-1	1,4-Dioxane	ND		250000	212000	85	250000	208000	83	2	70-130/30
97-63-2	Ethyl methacrylate	ND		50000	44100	88	50000	43700	87	1	72-139/30
100-41-4	Ethylbenzene	697	J	50000	52300	103	50000	52400	103	0	70-130/30
87-68-3	Hexachlorobutadiene	ND		50000	53700	107	50000	56400	113	5	70-130/30
591-78-6	2-Hexanone	ND		50000	35500	71	50000	34200	68* [a]	4	70-130/30
98-82-8	Isopropylbenzene	ND		50000	59000	118	50000	60300	121	2	70-130/30
99-87-6	p-Isopropyltoluene	ND		50000	55800	112	50000	56900	114	2	70-130/30
1634-04-4	Methyl Tert Butyl Ether	ND		50000	50300	101	50000	50200	100	0	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		50000	48200	96	50000	47200	94	2	70-130/30
74-95-3	Methylene bromide	ND		50000	46900	94	50000	46500	93	1	70-130/30
75-09-2	Methylene chloride	ND		50000	45300	91	50000	45600	91	1	70-130/30
91-20-3	Naphthalene	ND		50000	43700	87	50000	49400	99	12	70-130/30
103-65-1	n-Propylbenzene	ND		50000	56400	113	50000	57200	114	1	70-130/30
100-42-5	Styrene	ND		50000	47600	95	50000	48300	97	1	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		50000	50400	101	50000	51000	102	1	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		50000	50900	102	50000	51500	103	1	70-130/30
127-18-4	Tetrachloroethene	ND		50000	49900	100	50000	50300	101	1	70-130/30
108-88-3	Toluene	ND		50000	51800	104	50000	51900	104	0	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		50000	49400	99	50000	56200	112	13	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		50000	54600	109	50000	58800	118	7	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		50000	51600	103	50000	51100	102	1	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		50000	48400	97	50000	48300	97	0	70-130/30
79-01-6	Trichloroethene	ND		50000	49400	99	50000	49500	99	0	70-130/30
75-69-4	Trichlorofluoromethane	ND		50000	53500	107	50000	51700	103	3	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		50000	52600	105	50000	52800	106	0	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		50000	57100	114	50000	58500	117	2	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		50000	57800	116	50000	59000	118	2	70-130/30
108-05-4	Vinyl Acetate	ND		50000	49700	99	50000	49400	99	1	70-130/30
75-01-4	Vinyl chloride	ND		50000	45200	90	50000	44200	88	2	70-130/30
	m,p-Xylene	ND		100000	86600	87	100000	87600	88	1	70-130/30
95-47-6	o-Xylene	ND		50000	43800	88	50000	44000	88	0	70-130/30
1330-20-7	Xylene (total)	ND		150000	130000	87	150000	132000	88	2	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC28118
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC28118-3MS	V27817.D	1000	02/11/14	AMY	n/a	n/a	MSV1048
MC28118-3MSD	V27818.D	1000	02/11/14	AMY	n/a	n/a	MSV1048
MC28118-3	V27813.D	1000	02/11/14	AMY	n/a	n/a	MSV1048

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC28118-1, MC28118-2, MC28118-3, MC28118-4, MC28118-5

CAS No.	Surrogate Recoveries	MS	MSD	MC28118-3	Limits
1868-53-7	Dibromofluoromethane	98%	97%	103%	70-130%
2037-26-5	Toluene-D8	97%	97%	94%	70-130%
460-00-4	4-Bromofluorobenzene	101%	101%	105%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.

* = Outside of Control Limits.

Volatile Internal Standard Area Summary

Job Number: MC28118
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSV1048-CC1019	**Injection Date:**	02/11/14
Lab File ID:	V27805.D	**Injection Time:**	09:26
Instrument ID:	GCMSV	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	586268	6.54	757769	7.73	400601	11.06	410399	13.28	196552	3.50
Upper Limit [a]	1172536	7.04	1515538	8.23	801202	11.56	820798	13.78	393104	4.00
Lower Limit [b]	293134	6.04	378885	7.23	200301	10.56	205200	12.78	98276	3.00
Lab Sample ID	**IS 1 AREA**	**RT**	**IS 2 AREA**	**RT**	**IS 3 AREA**	**RT**	**IS 4 AREA**	**RT**	**IS 5 AREA**	**RT**
MSV1048-BS	595785	6.54	767989	7.72	406940	11.06	420280	13.28	185101	3.50
MSV1048-BSD	597754	6.55	783691	7.73	415869	11.07	426497	13.28	210324	3.51
MSV1048-MB	517549	6.54	714753	7.73	378655	11.06	353518	13.28	174117	3.50
MC28118-5	545511	6.55	742240	7.73	395395	11.07	364753	13.28	149363	3.51
MC28118-2	542456	6.55	702645	7.73	360645	11.07	340087	13.28	251714	3.50
MC28118-1	479340	6.55	662819	7.73	348090	11.07	335884	13.28	177227	3.50
MC28118-3	499094	6.55	701596	7.73	364703	11.07	342227	13.28	148475	3.51
MC28118-4	462396	6.54	663667	7.73	339678	11.07	321217	13.28	126891	3.50
MC28118-1	531334	6.55	712885	7.73	363198	11.07	358439	13.28	165572	3.51
MC28118-4	462552	6.55	654541	7.73	342216	11.07	325297	13.28	162289	3.51
MC28118-3MS	590467	6.55	779458	7.73	411428	11.07	431599	13.28	177849	3.51
MC28118-3MSD	560896	6.55	737931	7.73	388377	11.07	400591	13.28	154120	3.50
ZZZZZZ	549407	6.55	718656	7.73	394458	11.07	381137	13.28	149771	3.50
ZZZZZZ	522512	6.55	700310	7.73	372986	11.07	377678	13.28	175917	3.50
ZZZZZZ	529417	6.55	719249	7.73	378854	11.07	359859	13.28	184056	3.50
ZZZZZZ	509479	6.55	668549	7.73	351658	11.07	326339	13.28	151609	3.50
ZZZZZZ	504721	6.55	658246	7.73	341475	11.06	316870	13.28	133975	3.50
ZZZZZZ	494343	6.54	646420	7.72	340403	11.06	321720	13.28	147976	3.50
ZZZZZZ	518205	6.55	674542	7.73	362367	11.06	336307	13.28	170924	3.50
ZZZZZZ	460453	6.54	604479	7.73	323474	11.06	300510	13.28	143713	3.50
ZZZZZZ	469745	6.54	611641	7.72	329195	11.06	306322	13.28	140598	3.50
ZZZZZZ	462648	6.54	599047	7.72	326573	11.06	301854	13.28	156320	3.50
ZZZZZZ	474286	6.54	651955	7.73	355870	11.06	332369	13.28	159204	3.50
ZZZZZZ	426586	6.53	557367	7.72	305509	11.06	281205	13.28	141652	3.49

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: MC28118
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Method: SW846 8260C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC28118-1	V27815.D	95	96	106
MC28118-1	V27812.D	104	96	105
MC28118-2	V27811.D	98	95	104
MC28118-3	V27813.D	103	94	105
MC28118-4	V27816.D	106	95	103
MC28118-4	V27814.D	106	94	104
MC28118-5	V27810.D	102	96	106
MC28118-3MS	V27817.D	98	97	101
MC28118-3MSD	V27818.D	97	97	101
MSV1048-BS	V27806.D	96	98	102
MSV1048-BSD	V27807.D	97	98	103
MSV1048-MB	V27809.D	103	96	105

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	70-130%
S2 = Toluene-D8	70-130%
S3 = 4-Bromofluorobenzene	70-130%

GC/MS Semi-volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC28118
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36790-MB	R37020.D	1	02/10/14	WK	02/07/14	OP36790	MSR1365

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC28118-1, MC28118-2, MC28118-3, MC28118-4

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.38	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.49	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.33	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	ND	10	1.3	ug/l	
	3&4-Methylphenol	ND	10	2.0	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.50	ug/l	
100-02-7	4-Nitrophenol	ND	20	0.58	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	ND	5.0	0.51	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.57	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.32	ug/l	
62-53-3	Aniline	ND	10	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.20	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.85	ug/l	
100-51-6	Benzyl Alcohol	ND	10	0.57	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.92	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.25	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.21	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.23	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.13	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.20	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.65	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.68	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.64	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.50	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	0.55	5.0	0.39	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.0	0.43	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	0.50	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.50	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	2.6	2.0	0.49	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.30	ug/l	

Method Blank Summary

Job Number: MC28118
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36790-MB	R37020.D	1	02/10/14	WK	02/07/14	OP36790	MSR1365

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC28118-1, MC28118-2, MC28118-3, MC28118-4

CAS No.	Compound	Result	RL	MDL	Units	Q
77-47-4	Hexachlorocyclopentadiene	ND	10	2.5	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.44	ug/l	
78-59-1	Isophorone	ND	5.0	0.20	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.50	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.3	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.25	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.0	0.50	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.81	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.54	ug/l	
110-86-1	Pyridine	ND	10	0.52	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	31%	15-110%
4165-62-2	Phenol-d5	23%	15-110%
118-79-6	2,4,6-Tribromophenol	69%	15-110%
4165-60-0	Nitrobenzene-d5	67%	30-130%
321-60-8	2-Fluorobiphenyl	54%	30-130%
1718-51-0	Terphenyl-d14	95%	30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

Method Blank Summary

Job Number: MC28118
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36791-MB	I87368.D	1	02/10/14	MR	02/07/14	OP36791	MSI3247

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

MC28118-1, MC28118-2, MC28118-3, MC28118-4

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.069	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.050	ug/l	
120-12-7	Anthracene	ND	0.10	0.092	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	0.020	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.029	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	0.032	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.027	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.039	ug/l	
218-01-9	Chrysene	ND	0.10	0.024	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.032	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.041	ug/l	
86-73-7	Fluorene	ND	0.10	0.099	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.031	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.20	0.050	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.20	0.074	ug/l	
85-01-8	Phenanthrene	0.018	0.050	0.013	ug/l	J
129-00-0	Pyrene	ND	0.10	0.038	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	63%	30-130%
321-60-8	2-Fluorobiphenyl	53%	30-130%
1718-51-0	Terphenyl-d14	86%	30-130%

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC28118
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36790-BS	R37021.D	1	02/10/14	WK	02/07/14	OP36790	MSR1365
OP36790-BSD	R37022.D	1	02/10/14	WK	02/07/14	OP36790	MSR1365

The QC reported here applies to the following samples: Method: SW846 8270D

MC28118-1, MC28118-2, MC28118-3, MC28118-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	50	13.5	27* [a]	12.5	25* [a]	8	30-130/20
95-57-8	2-Chlorophenol	50	33.8	68	31.8	64	6	30-130/20
59-50-7	4-Chloro-3-methyl phenol	50	40.7	81	39.2	78	4	30-130/20
120-83-2	2,4-Dichlorophenol	50	38.3	77	37.2	74	3	30-130/20
105-67-9	2,4-Dimethylphenol	50	34.7	69	32.5	65	7	30-130/20
51-28-5	2,4-Dinitrophenol	50	29.6	59	30.2	60	2	30-130/20
534-52-1	4,6-Dinitro-o-cresol	50	41.8	84	41.8	84	0	30-130/20
95-48-7	2-Methylphenol	50	31.8	64	29.9	60	6	30-130/20
	3&4-Methylphenol	100	58.7	59	54.9	55	7	30-130/20
88-75-5	2-Nitrophenol	50	37.9	76	36.3	73	4	30-130/20
100-02-7	4-Nitrophenol	50	15.6	31	15.6	31	0	30-130/20
87-86-5	Pentachlorophenol	50	37.6	75	38.1	76	1	30-130/20
108-95-2	Phenol	50	17.8	36	13.7	27* [a]	26* [a]	30-130/20
95-95-4	2,4,5-Trichlorophenol	50	40.0	80	39.4	79	2	30-130/20
88-06-2	2,4,6-Trichlorophenol	50	38.2	76	36.5	73	5	30-130/20
62-53-3	Aniline	50	25.1	50	23.6	47	6	40-140/20
101-55-3	4-Bromophenyl phenyl ether	50	44.1	88	43.6	87	1	40-140/20
85-68-7	Butyl benzyl phthalate	50	46.4	93	47.0	94	1	40-140/20
100-51-6	Benzyl Alcohol	50	28.2	56	26.9	54	5	40-140/20
91-58-7	2-Chloronaphthalene	50	36.0	72	34.8	70	3	40-140/20
106-47-8	4-Chloroaniline	50	35.2	70	33.2	66	6	40-140/20
111-91-1	bis(2-Chloroethoxy)methane	50	37.6	75	35.8	72	5	40-140/20
111-44-4	bis(2-Chloroethyl)ether	50	37.2	74	34.5	69	8	40-140/20
108-60-1	bis(2-Chloroisopropyl)ether	50	36.5	73	33.6	67	8	40-140/20
7005-72-3	4-Chlorophenyl phenyl ether	50	44.4	89	42.7	85	4	40-140/20
122-66-7	1,2-Diphenylhydrazine	50	43.8	88	43.2	86	1	40-140/20
121-14-2	2,4-Dinitrotoluene	50	44.0	88	43.6	87	1	40-140/20
606-20-2	2,6-Dinitrotoluene	50	41.0	82	39.1	78	5	40-140/20
91-94-1	3,3'-Dichlorobenzidine	50	44.9	90	46.1	92	3	40-140/20
132-64-9	Dibenzofuran	50	39.6	79	38.0	76	4	40-140/20
84-74-2	Di-n-butyl phthalate	50	44.6	89	42.9	86	4	40-140/20
117-84-0	Di-n-octyl phthalate	50	49.9	100	49.3	99	1	40-140/20
84-66-2	Diethyl phthalate	50	38.5	77	37.8	76	2	40-140/20
131-11-3	Dimethyl phthalate	50	25.2	50	25.3	51	0	40-140/20
117-81-7	bis(2-Ethylhexyl)phthalate	50	48.3	97	48.3	97	0	40-140/20
118-74-1	Hexachlorobenzene	50	46.4	93	45.7	91	2	40-140/20

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC28118
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36790-BS	R37021.D	1	02/10/14	WK	02/07/14	OP36790	MSR1365
OP36790-BSD	R37022.D	1	02/10/14	WK	02/07/14	OP36790	MSR1365

The QC reported here applies to the following samples: Method: SW846 8270D

MC28118-1, MC28118-2, MC28118-3, MC28118-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
77-47-4	Hexachlorocyclopentadiene	50	9.6	19* [a]	10.2	20* [a]	6	40-140/20
67-72-1	Hexachloroethane	50	17.6	35* [a]	17.5	35* [a]	1	40-140/20
78-59-1	Isophorone	50	42.4	85	40.0	80	6	40-140/20
88-74-4	2-Nitroaniline	50	40.9	82	39.3	79	4	40-140/20
99-09-2	3-Nitroaniline	50	38.1	76	37.3	75	2	40-140/20
100-01-6	4-Nitroaniline	50	40.4	81	39.6	79	2	40-140/20
98-95-3	Nitrobenzene	50	41.3	83	38.6	77	7	40-140/20
62-75-9	n-Nitrosodimethylamine	50	24.4	49	21.7	43	12	40-140/20
621-64-7	N-Nitroso-di-n-propylamine	50	44.4	89	41.1	82	8	40-140/20
86-30-6	N-Nitrosodiphenylamine	50	41.2	82	40.8	82	1	40-140/20
110-86-1	Pyridine	50	18.7	37* [a]	17.7	35* [a]	5	40-140/20

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
367-12-4	2-Fluorophenol	42%	37%	15-110%
4165-62-2	Phenol-d5	31%	28%	15-110%
118-79-6	2,4,6-Tribromophenol	91%	87%	15-110%
4165-60-0	Nitrobenzene-d5	85%	79%	30-130%
321-60-8	2-Fluorobiphenyl	71%	67%	30-130%
1718-51-0	Terphenyl-d14	94%	93%	30-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC28118
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36791-BS	I87369.D	1	02/10/14	MR	02/07/14	OP36791	MSI3247
OP36791-BSD	I87370.D	1	02/10/14	MR	02/07/14	OP36791	MSI3247

The QC reported here applies to the following samples: Method: SW846 8270D BY SIM

MC28118-1, MC28118-2, MC28118-3, MC28118-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	50	37.5	75	36.4	73	3	40-140/30
208-96-8	Acenaphthylene	50	31.2	62	30.3	61	3	40-140/30
120-12-7	Anthracene	50	38.7	77	38.1	76	2	40-140/30
56-55-3	Benzo(a)anthracene	50	47.5	95	46.6	93	2	40-140/30
50-32-8	Benzo(a)pyrene	50	43.7	87	42.6	85	3	40-140/30
205-99-2	Benzo(b)fluoranthene	50	48.4	97	45.9	92	5	40-140/30
191-24-2	Benzo(g,h,i)perylene	50	50.1	100	48.9	98	2	40-140/30
207-08-9	Benzo(k)fluoranthene	50	44.0	88	43.9	88	0	40-140/30
218-01-9	Chrysene	50	45.5	91	44.2	88	3	40-140/30
53-70-3	Dibenzo(a,h)anthracene	50	51.6	103	50.1	100	3	40-140/30
206-44-0	Fluoranthene	50	44.4	89	44.0	88	1	40-140/30
86-73-7	Fluorene	50	39.2	78	38.5	77	2	40-140/30
193-39-5	Indeno(1,2,3-cd)pyrene	50	51.0	102	49.6	99	3	40-140/30
90-12-0	1-Methylnaphthalene	50	30.4	61	29.3	59	4	40-140/30
91-57-6	2-Methylnaphthalene	50	29.3	59	28.5	57	3	40-140/30
85-01-8	Phenanthrene	50	39.2	78	38.9	78	1	40-140/30
129-00-0	Pyrene	50	43.8	88	43.2	86	1	40-140/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
4165-60-0	Nitrobenzene-d5	78%	73%	30-130%
321-60-8	2-Fluorobiphenyl	68%	66%	30-130%
1718-51-0	Terphenyl-d14	91%	87%	30-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC28118
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36790-MS	R37023.D	1	02/10/14	WK	02/07/14	OP36790	MSR1365
OP36790-MSD	R37024.D	1	02/10/14	WK	02/07/14	OP36790	MSR1365
MC28000-20	R37025.D	1	02/10/14	WK	02/07/14	OP36790	MSR1365

The QC reported here applies to the following samples: Method: SW846 8270D

MC28118-1, MC28118-2, MC28118-3, MC28118-4

CAS No.	Compound	MC28000-20 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		50	13.8	28* [a]	50	14.5	29* [a]	5	30-130/20
95-57-8	2-Chlorophenol	ND		50	34.4	69	50	35.0	70	2	30-130/20
59-50-7	4-Chloro-3-methyl phenol	ND		50	41.4	83	50	40.4	81	2	30-130/20
120-83-2	2,4-Dichlorophenol	ND		50	40.5	81	50	39.5	79	3	30-130/20
105-67-9	2,4-Dimethylphenol	ND		50	35.1	70	50	33.4	67	5	30-130/20
51-28-5	2,4-Dinitrophenol	ND		50	31.3	63	50	34.6	69	10	30-130/20
534-52-1	4,6-Dinitro-o-cresol	ND		50	43.2	86	50	45.4	91	5	30-130/20
95-48-7	2-Methylphenol	ND		50	32.5	65	50	32.2	64	1	30-130/20
	3&4-Methylphenol	ND		100	59.8	60	100	59.2	59	1	30-130/20
88-75-5	2-Nitrophenol	ND		50	39.2	78	50	39.4	79	1	30-130/20
100-02-7	4-Nitrophenol	ND		50	15.9	32	50	16.5	33	4	30-130/20
87-86-5	Pentachlorophenol	ND		50	38.6	77	50	40.3	81	4	30-130/20
108-95-2	Phenol	ND		50	14.8	30	50	15.1	30	2	30-130/20
95-95-4	2,4,5-Trichlorophenol	ND		50	40.9	82	50	41.0	82	0	30-130/20
88-06-2	2,4,6-Trichlorophenol	ND		50	39.0	78	50	38.5	77	1	30-130/20
62-53-3	Aniline	ND		50	25.5	51	50	25.4	51	0	40-140/20
101-55-3	4-Bromophenyl phenyl ether	ND		50	44.8	90	50	45.8	92	2	40-140/20
85-68-7	Butyl benzyl phthalate	ND		50	48.1	96	50	47.6	95	1	40-140/20
100-51-6	Benzyl Alcohol	ND		50	28.3	57	50	28.4	57	0	40-140/20
91-58-7	2-Chloronaphthalene	ND		50	38.8	78	50	37.9	76	2	40-140/20
106-47-8	4-Chloroaniline	ND		50	36.4	73	50	35.0	70	4	40-140/20
111-91-1	bis(2-Chloroethoxy)methane	ND		50	39.2	78	50	37.6	75	4	40-140/20
111-44-4	bis(2-Chloroethyl)ether	ND		50	38.1	76	50	37.2	74	2	40-140/20
108-60-1	bis(2-Chloroisopropyl)ether	ND		50	37.0	74	50	36.0	72	3	40-140/20
7005-72-3	4-Chlorophenyl phenyl ether	ND		50	45.5	91	50	44.7	89	2	40-140/20
122-66-7	1,2-Diphenylhydrazine	ND		50	45.1	90	50	44.6	89	1	40-140/20
121-14-2	2,4-Dinitrotoluene	ND		50	44.7	89	50	45.5	91	2	40-140/20
606-20-2	2,6-Dinitrotoluene	ND		50	41.6	83	50	41.5	83	0	40-140/20
91-94-1	3,3'-Dichlorobenzidine	ND		50	46.9	94	50	46.4	93	1	40-140/20
132-64-9	Dibenzofuran	ND		50	40.9	82	50	40.0	80	2	40-140/20
84-74-2	Di-n-butyl phthalate	ND		50	45.0	90	50	44.8	90	0	40-140/20
117-84-0	Di-n-octyl phthalate	ND		50	51.3	103	50	51.2	102	0	40-140/20
84-66-2	Diethyl phthalate	ND		50	39.0	78	50	38.0	76	3	40-140/20
131-11-3	Dimethyl phthalate	ND		50	25.4	51	50	22.9	46	10	40-140/20
117-81-7	bis(2-Ethylhexyl)phthalate	ND		50	50.2	100	50	49.6	99	1	40-140/20
118-74-1	Hexachlorobenzene	ND		50	47.4	95	50	46.9	94	1	40-140/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC28118
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36790-MS	R37023.D	1	02/10/14	WK	02/07/14	OP36790	MSR1365
OP36790-MSD	R37024.D	1	02/10/14	WK	02/07/14	OP36790	MSR1365
MC28000-20	R37025.D	1	02/10/14	WK	02/07/14	OP36790	MSR1365

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC28118-1, MC28118-2, MC28118-3, MC28118-4

CAS No.	Compound	MC28000-20 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
77-47-4	Hexachlorocyclopentadiene	ND		50	12.2	24* [b]	50	12.4	25* [b]	2	40-140/20
67-72-1	Hexachloroethane	ND		50	21.6	43	50	20.4	41	6	40-140/20
78-59-1	Isophorone	ND		50	43.3	87	50	41.8	84	4	40-140/20
88-74-4	2-Nitroaniline	ND		50	41.6	83	50	41.5	83	0	40-140/20
99-09-2	3-Nitroaniline	ND		50	38.7	77	50	38.7	77	0	40-140/20
100-01-6	4-Nitroaniline	ND		50	41.6	83	50	41.5	83	0	40-140/20
98-95-3	Nitrobenzene	ND		50	42.6	85	50	41.1	82	4	40-140/20
62-75-9	n-Nitrosodimethylamine	ND		50	24.5	49	50	23.6	47	4	40-140/20
621-64-7	N-Nitroso-di-n-propylamine	ND		50	45.1	90	50	43.9	88	3	40-140/20
86-30-6	N-Nitrosodiphenylamine	ND		50	42.2	84	50	41.9	84	1	40-140/20
110-86-1	Pyridine	ND		50	19.5	39* [b]	50	19.9	40	2	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC28000-20	Limits
367-12-4	2-Fluorophenol	41%	42%	37%	15-110%
4165-62-2	Phenol-d5	30%	31%	28%	15-110%
118-79-6	2,4,6-Tribromophenol	90%	94%	75%	15-110%
4165-60-0	Nitrobenzene-d5	86%	86%	76%	30-130%
321-60-8	2-Fluorobiphenyl	77%	76%	66%	30-130%
1718-51-0	Terphenyl-d14	96%	97%	90%	30-130%

(a) Outside control limits. Blank Spike meets program technical requirements.
(b) Outside control limits due to possible matrix interference. Refer to Blank Spike.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC28118
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36791-MS	I87371.D	1	02/10/14	MR	02/07/14	OP36791	MSI3247
OP36791-MSD	I87372.D	1	02/10/14	MR	02/07/14	OP36791	MSI3247
MC28000-21	I87373.D	1	02/10/14	MR	02/07/14	OP36791	MSI3247

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

MC28118-1, MC28118-2, MC28118-3, MC28118-4

CAS No.	Compound	MC28000-21 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND		50	38.8	78	50	38.1	76	2	40-140/20
208-96-8	Acenaphthylene	ND		50	32.4	65	50	31.9	64	2	40-140/20
120-12-7	Anthracene	ND		50	39.7	79	50	39.3	79	1	40-140/20
56-55-3	Benzo(a)anthracene	ND		50	48.0	96	50	47.9	96	0	40-140/20
50-32-8	Benzo(a)pyrene	ND		50	44.6	89	50	44.7	89	0	40-140/20
205-99-2	Benzo(b)fluoranthene	ND		50	47.4	95	50	46.6	93	2	40-140/20
191-24-2	Benzo(g,h,i)perylene	ND		50	50.9	102	50	51.0	102	0	40-140/20
207-08-9	Benzo(k)fluoranthene	ND		50	46.6	93	50	47.3	95	1	40-140/20
218-01-9	Chrysene	ND		50	45.9	92	50	45.4	91	1	40-140/20
53-70-3	Dibenzo(a,h)anthracene	ND		50	52.5	105	50	52.6	105	0	40-140/20
206-44-0	Fluoranthene	ND		50	45.0	90	50	44.8	90	0	40-140/20
86-73-7	Fluorene	ND		50	40.4	81	50	39.9	80	1	40-140/20
193-39-5	Indeno(1,2,3-cd)pyrene	ND		50	51.9	104	50	52.2	104	1	40-140/20
90-12-0	1-Methylnaphthalene	ND		50	32.7	65	50	32.1	64	2	40-140/20
91-57-6	2-Methylnaphthalene	ND		50	31.8	64	50	31.0	62	3	40-140/20
85-01-8	Phenanthrene	0.022	J	50	40.2	80	50	39.6	79	2	40-140/20
129-00-0	Pyrene	ND		50	44.3	89	50	44.3	89	0	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC28000-21	Limits
4165-60-0	Nitrobenzene-d5	79%	80%	71%	30-130%
321-60-8	2-Fluorobiphenyl	72%	72%	64%	30-130%
1718-51-0	Terphenyl-d14	90%	92%	86%	30-130%

* = Outside of Control Limits.

Semivolatile Internal Standard Area Summary

Job Number: MC28118
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSI3247-CC3238	**Injection Date:**	02/10/14
Lab File ID:	I87367.D	**Injection Time:**	11:44
Instrument ID:	GCMSI	**Method:**	SW846 8270D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	296304	4.39	657574	5.45	362797	6.99	601328	8.42	382825	11.19	1030425	12.70
Upper Limit [a]	592608	4.89	1315148	5.95	725594	7.49	1202656	8.92	765650	11.69	2060850	13.20
Lower Limit [b]	148152	3.89	328787	4.95	181399	6.49	300664	7.92	191413	10.69	515213	12.20
Lab Sample ID	**IS 1 AREA**	**RT**	**IS 2 AREA**	**RT**	**IS 3 AREA**	**RT**	**IS 4 AREA**	**RT**	**IS 5 AREA**	**RT**	**IS 6 AREA**	**RT**
OP36791-MB	300247	4.39	656488	5.45	361755	6.99	592479	8.42	376772	11.19	1020558	12.70
OP36791-BS	264638	4.39	590343	5.45	322405	6.99	529307	8.42	334106	11.20	890882	12.70
OP36791-BSD	293349	4.39	648017	5.45	352305	6.99	572878	8.42	364796	11.20	974876	12.70
OP36791-MS	271441	4.39	601265	5.45	329325	6.99	536479	8.42	341670	11.20	905754	12.70
OP36791-MSD	305035	4.39	669877	5.45	361903	6.99	593913	8.42	374598	11.20	972871	12.70
MC28000-21	285286	4.39	627029	5.45	340780	6.99	557779	8.42	352469	11.19	945545	12.70
ZZZZZZ	296595	4.39	653089	5.45	353655	6.99	569444	8.42	359725	11.19	964142	12.70
ZZZZZZ	278699	4.39	612195	5.45	334462	6.99	549230	8.42	348889	11.19	939274	12.70
ZZZZZZ	266963	4.39	582528	5.45	316937	6.99	523636	8.42	330436	11.19	888151	12.70
ZZZZZZ	284936	4.39	614460	5.45	337816	6.99	550234	8.42	349439	11.19	945541	12.70
ZZZZZZ	287597	4.39	618568	5.45	340979	6.99	546234	8.42	346996	11.19	920337	12.70
MC28118-1	300407	4.39	649512	5.45	379932	7.00	577328	8.43	375672	11.20	1011197	12.70
MC28118-2	291290	4.39	642272	5.45	349453	6.99	569254	8.42	366378	11.19	986022	12.70
MC28118-3	296620	4.39	637681	5.45	350397	6.99	573388	8.42	364833	11.19	973417	12.70
MC28118-4	295728	4.39	636708	5.45	342519	6.99	562089	8.42	355797	11.19	943940	12.70
ZZZZZZ	305764	4.39	658186	5.45	362408	6.99	576811	8.42	356767	11.20	941145	12.70
ZZZZZZ	293229	4.39	641636	5.45	347842	6.99	566342	8.42	349741	11.19	931350	12.70
ZZZZZZ	288767	4.39	633428	5.45	347816	6.99	574114	8.42	379981	11.19	969116	12.70

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC28118
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSR1365-CC1262	**Injection Date:**	02/10/14
Lab File ID:	R37013.D	**Injection Time:**	08:58
Instrument ID:	GCMSR	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	302010	4.19	1139273	5.24	711428	6.77	1273293	8.06	1459321	10.66	1314302	12.38
Upper Limit [a]	604020	4.69	2278546	5.74	1422856	7.27	2546586	8.56	2918642	11.16	2628604	12.88
Lower Limit [b]	151005	3.69	569637	4.74	355714	6.27	636647	7.56	729661	10.16	657151	11.88

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP36777-MB	308143	4.18	1148633	5.24	711131	6.77	1291590	8.06	1325508	10.66	1246068	12.37
OP36777-BS	307631	4.18	1125224	5.24	707466	6.77	1267284	8.06	1415330	10.66	1300729	12.38
OP36777-MS	317611	4.18	1168516	5.24	729701	6.77	1317183	8.06	1465752	10.66	1351335	12.38
OP36777-MSD	310813	4.18	1131926	5.24	707056	6.77	1265424	8.06	1403832	10.66	1279857	12.38
MC28000-12	323872	4.18	1190462	5.24	749971	6.77	1341920	8.06	1419380	10.66	1337826	12.37
ZZZZZZ	303485	4.18	1116695	5.24	700558	6.77	1262569	8.06	1314322	10.66	1199703	12.37
OP36790-MB	305433	4.18	1127899	5.24	715011	6.77	1318843	8.06	1403964	10.66	1335559	12.37
OP36790-BS	285906	4.18	1048163	5.24	659717	6.77	1176479	8.06	1312091	10.66	1191337	12.38
OP36790-BSD	334596	4.18	1211663	5.24	763519	6.77	1338388	8.06	1429797	10.66	1299491	12.38
OP36790-MS	303354	4.18	1093859	5.24	684597	6.77	1218349	8.06	1324697	10.66	1211921	12.38
OP36790-MSD	338402	4.18	1228878	5.24	771501	6.77	1370712	8.06	1496298	10.66	1363081	12.38
MC28000-20	279066	4.18	1028821	5.24	647819	6.77	1189119	8.06	1261874	10.66	1214264	12.37
ZZZZZZ	293809	4.18	1078283	5.24	690804	6.77	1252023	8.06	1350729	10.66	1268088	12.37
ZZZZZZ	294265	4.19	1063258	5.24	685770	6.77	1199080	8.06	1287668	10.66	1242554	12.37
MC28118-1	333197	4.19	1216563	5.25	865499	6.77	1417398	8.06	1465888	10.66	1388562	12.38
MC28118-2	298230	4.18	1104148	5.24	697186	6.77	1277753	8.06	1372777	10.66	1317109	12.37
MC28118-3	315294	4.19	1122464	5.24	713716	6.77	1278563	8.06	1382508	10.66	1336457	12.37
MC28118-4	318132	4.19	1142808	5.24	730737	6.77	1309174	8.06	1389924	10.66	1339934	12.38

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC28118
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSR1366-CC1262	**Injection Date:**	02/14/14
Lab File ID:	R37039.D	**Injection Time:**	14:14
Instrument ID:	GCMSR	**Method:**	SW846 8270D

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Check Std	333585	4.08	1210935	5.13	775548	6.66	1373582	7.95	1563703	10.52	1418039	12.22
Upper Limit [a]	667170	4.58	2421870	5.63	1551096	7.16	2747164	8.45	3127406	11.02	2836078	12.72
Lower Limit [b]	166793	3.58	605468	4.63	387774	6.16	686791	7.45	781852	10.02	709020	11.72
Lab Sample ID	**IS 1 AREA**	**RT**	**IS 2 AREA**	**RT**	**IS 3 AREA**	**RT**	**IS 4 AREA**	**RT**	**IS 5 AREA**	**RT**	**IS 6 AREA**	**RT**
OP36834-MB	367881	4.08	1322042	5.13	828760	6.66	1474853	7.95	1481678	10.52	1360892	12.22
OP36834-BS	390542	4.08	1399142	5.13	866594	6.66	1551013	7.95	1627127	10.52	1462629	12.22
OP36834-MS	361528	4.08	1291329	5.13	800061	6.66	1401191	7.95	1472339	10.52	1340417	12.22
OP36834-MSD	376201	4.08	1339961	5.13	831952	6.66	1458996	7.95	1536516	10.52	1389512	12.22
MC28233-4	378746	4.08	1353255	5.13	848154	6.66	1467361	7.94	1519633	10.52	1389067	12.22
ZZZZZZ	356254	4.08	1245374	5.13	781810	6.66	1362037	7.94	1425899	10.52	1352717	12.22
ZZZZZZ	348230	4.08	1226299	5.13	769946	6.66	1339325	7.94	1402217	10.52	1325256	12.22
ZZZZZZ	376996	4.08	1313394	5.13	821409	6.66	1417257	7.94	1480677	10.52	1394692	12.22
ZZZZZZ	379303	4.08	1339783	5.13	842546	6.66	1475086	7.94	1507549	10.52	1391439	12.22
ZZZZZZ	376591	4.09	1348734	5.14	823640	6.66	1491726	7.95	1523968	10.55	1282407	12.29
ZZZZZZ	341466	4.08	1233007	5.14	775107	6.67	1378110	7.95	1621111	10.52	1668286	12.23
ZZZZZZ	336500	4.08	1189765	5.13	742327	6.66	1279357	7.95	1371993	10.52	1340523	12.22
ZZZZZZ	362204	4.08	1282757	5.13	804372	6.66	1405564	7.95	1453240	10.52	1417009	12.22
ZZZZZZ	371454	4.08	1305911	5.13	816210	6.66	1409377	7.95	1450213	10.52	1408447	12.22
MC28118-1	320329	4.08	1151149	5.13	743321	6.66	1341597	7.95	1415299	10.52	1381929	12.22
MC28118-4	270342	4.08	974689	5.13	623466	6.66	1129148	7.95	1190453	10.52	1152832	12.22

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Surrogate Recovery Summary

Job Number: MC28118
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Method: SW846 8270D **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
MC28118-1	R37054.D	0* [a]	16	53	44	40	54
MC28118-1	R37028.D	20	26	98	73	64	96
MC28118-2	R37029.D	30	22	69	63	56	93
MC28118-3	R37030.D	36	28	87	81	73	94
MC28118-4	R37055.D	19	18	54	39	40	54
MC28118-4	R37031.D	34	29	94	67	63	90
OP36790-BS	R37021.D	42	31	91	85	71	94
OP36790-BSD	R37022.D	37	28	87	79	67	93
OP36790-MB	R37020.D	31	23	69	67	54	95
OP36790-MS	R37023.D	41	30	90	86	77	96
OP36790-MSD	R37024.D	42	31	94	86	76	97

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	15-110%
S2 = Phenol-d5	15-110%
S3 = 2,4,6-Tribromophenol	15-110%
S4 = Nitrobenzene-d5	30-130%
S5 = 2-Fluorobiphenyl	30-130%
S6 = Terphenyl-d14	30-130%

(a) Outside control limits due to dilution.

Semivolatile Surrogate Recovery Summary

Job Number: MC28118
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Method: SW846 8270D BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC28118-1	I87379.D	68	55	91
MC28118-2	I87380.D	59	55	88
MC28118-3	I87381.D	74	69	89
MC28118-4	I87382.D	61	61	85
OP36791-BS	I87369.D	78	68	91
OP36791-BSD	I87370.D	73	66	87
OP36791-MB	I87368.D	63	53	86
OP36791-MS	I87371.D	79	72	90
OP36791-MSD	I87372.D	80	72	92

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	30-130%
S2 = 2-Fluorobiphenyl	30-130%
S3 = Terphenyl-d14	30-130%

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries

Method Blank Summary

Job Number: MC28118
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36782-MB	BB54236.D	1	02/07/14	CZ	02/06/14	OP36782	GBB3168

The QC reported here applies to the following samples: **Method:** SW846 8011

MC28118-1, MC28118-2, MC28118-3, MC28118-4, MC28118-6

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0054	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.011	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	Bromofluorobenzene (S)	112%	36-173%
460-00-4	Bromofluorobenzene (S)	122%	36-173%

Blank Spike Summary

Job Number: MC28118
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36782-BS	BB54237.D	1	02/07/14	CZ	02/06/14	OP36782	GBB3168

The QC reported here applies to the following samples: **Method:** SW846 8011

MC28118-1, MC28118-2, MC28118-3, MC28118-4, MC28118-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
96-12-8	1,2-Dibromo-3-chloropropane	0.071	0.095	134	60-140
106-93-4	1,2-Dibromoethane	0.071	0.075	106	60-140

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	Bromofluorobenzene (S)	115%	36-173%
460-00-4	Bromofluorobenzene (S)	125%	36-173%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC28118
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36782-MS	BB54240.D	1	02/07/14	CZ	02/06/14	OP36782	GBB3168
OP36782-MSD	BB54241.D	1	02/07/14	CZ	02/06/14	OP36782	GBB3168
MC28000-14	BB54242.D	1	02/07/14	CZ	02/06/14	OP36782	GBB3168

The QC reported here applies to the following samples: **Method:** SW846 8011

MC28118-1, MC28118-2, MC28118-3, MC28118-4, MC28118-6

CAS No.	Compound	MC28000-14 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
96-12-8	1,2-Dibromo-3-chloropropane	ND		0.071	0.081	114	0.071	0.070	99	15	64-141/29
106-93-4	1,2-Dibromoethane	ND		0.071	0.068	96	0.071	0.057	80	18	63-163/27

CAS No.	Surrogate Recoveries	MS	MSD	MC28000-14	Limits
460-00-4	Bromofluorobenzene (S)	103%	84%	129%	36-173%
460-00-4	Bromofluorobenzene (S)	106%	91%	133%	36-173%

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: MC28118
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Method: SW846 8011 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]
MC28118-1	BB54243.D	132	157
MC28118-2	BB54244.D	115	124
MC28118-3	BB54245.D	108	140
MC28118-4	BB54247.D	128	122
MC28118-6	BB54248.D	126	128
OP36782-BS	BB54237.D	115	125
OP36782-MB	BB54236.D	112	122
OP36782-MS	BB54240.D	103	106
OP36782-MSD	BB54241.D	84	91

Surrogate Compounds	Recovery Limits
S1 = Bromofluorobenzene (S)	36-173%

(a) Recovery from GC signal #2
(b) Recovery from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC28118
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	GBB3168-ICC3168	**Injection Date:**	02/07/14
Lab File ID:	BB54231.D	**Injection Time:**	08:47
Instrument ID:	GCBB	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.86	4.13

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
ZZZZZZ	BB54234A.D	02/07/14	09:59	4.86	4.12
OP36782-MB	BB54236.D	02/07/14	10:48	4.86	4.13
OP36782-BS	BB54237.D	02/07/14	11:12	4.86	4.13
ZZZZZZ	BB54238.D	02/07/14	11:37	4.86	4.13
ZZZZZZ	BB54239.D	02/07/14	12:00	4.86	4.13
OP36782-MS	BB54240.D	02/07/14	12:25	4.86	4.13
OP36782-MSD	BB54241.D	02/07/14	12:49	4.86	4.13
MC28000-14	BB54242.D	02/07/14	13:13	4.86	4.13
MC28118-1	BB54243.D	02/07/14	13:37	4.85	4.12
MC28118-2	BB54244.D	02/07/14	14:01	4.86	4.13
MC28118-3	BB54245.D	02/07/14	14:24	4.85	4.12

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC28118
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q14 GW/ 21562973.03001 900 South Central Avenue, Roxana, IL

Check Std:	GBB3168-CC3168	**Injection Date:**	02/07/14
Lab File ID:	BB54246.D	**Injection Time:**	14:48
Instrument ID:	GCBB	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.86	4.13

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
MC28118-4	BB54247.D	02/07/14	15:13	4.86	4.13
MC28118-6	BB54248.D	02/07/14	15:37	4.85	4.13
GBB3168-ECC3168	BB54249.D	02/07/14	16:01	4.85	4.13

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1