SOVEREIGN CONSULTING INC.

July 27, 2016

Ms. Susan Bull
Maryland Department of the Environment
Oil Control Program
1800 Washington Boulevard, Suite 620
Baltimore, MD 21230

Re: **SITE STATUS REPORT: THIRD QUARTER 2016**
Pilot Travel Center #290
31 Heather Lane
Perryville, Maryland
MDE Case # 97-0699CE
2016-0422-CE (January 22, 2016 Incident)

Dear Ms. Bull:

Sovereign Consulting Inc. (Sovereign) on behalf of Pilot Corporation (Pilot) is submitting the attached Third Quarter 2016 Site Status Report. The report contains groundwater quality and monitoring data from the period of May 1, 2016 through July 31, 2016. Activities this reporting period included monthly monitoring of product levels, subsurface investigation reporting (submitted June 21, 2016), section 4.2 report addendum reporting (submitted July 20, 2016), and quarterly groundwater sampling. The results of the groundwater monitoring and sampling are summarized in the attached report. Operation details of the DPVE Remediation System are included in Table 2. The DPVE Remediation System is currently on a long term shut down status in order to monitor product levels within the sites system and monitoring well networks. As of January 21, 2015, product levels in sites wells have not exceeded 0.07 feet.

Should you have any questions or require additional information, please feel free to contact the undersigned at (610) 524-8124.

Sincerely,
Sovereign Consulting Inc.

JR Williams
Environmental Scientist/ Project Manager

Enclosure

cc: Mr. Joey Cupp, Pilot Travel Centers
Ms. Jeannette DeBartolomeo, Maryland Department of the Environment

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SITE STATUS REPORT
THIRD QUARTER 2016

Pilot Travel Center #290
31 Heather Lane
Perryville, Maryland

Prepared for:

Pilot Travel Centers, LLC
5508 Lonas Drive
Knoxville, Tennessee

Prepared by:

Sovereign Consulting Inc.
50 West Welsh Pool Rd
Suite 6
Exton, Pennsylvania

July 2016

Site Status Report
Pilot Travel Center #290
31 Heather Lane, Perryville, Maryland
May 1, 2016 through July 31, 2016

CONSULTANT: Sovereign Consulting, Inc.
PROJECT MANAGER: JR Williams
SITE MANAGER: Joey Cupp

SITE HISTORY:

06/05	Periodic annual inspection of the underground storage tank (UST) system by the Maryland Department of the Environment (MDE). A Compliance Inspection and Report of Observation were issued.
07/05	GES prepared a summary report to respond to the observations, and report the detection of liquid phase hydrocarbons (LPH).
07/05	High Intensity Target (HIT) event; 4,325 gallons of LPH and water recovered.
08/05	Monitoring wells MW-1 through MW-3 installed as part of site characterization activities.
09/05	HIT event; 4,205 gallons of LPH and water recovered.
10/05	Three additional groundwater monitoring wells (MW-4 through MW-6) were installed. LPH was detected at thicknesses ranging from 0.01 feet to 1.57 feet in monitoring well MW-2.
11/05	Groundwater samples were collected from monitoring wells MW-1, MW-3, MW-5, and MW-6.
12/05	Site Characterization Report (SCR) submitted to MDE.
01/06	HIT event; 580 gallons of LPH and water recovered.
02/06	HIT event; 4,650 gallons of LPH and water recovered.
05/06	HIT event; 831 gallons of LPH and water recovered.
08/06	Installation of passive skimmer in monitoring well MW-2.
05/08	Passive skimmer removed from well MW-2 for repair or replacement.
12/08	Begin installation of SpillBuster product recovery system.
1/09	Complete installation of SpillBuster product recovery system.
02/09	Abandonment and re-installation of MW-4, installation of MW-7 and MW-8.
5/19/09	LPH removal pump in MW-2 malfunctions. Pump is removed for repair.
8/09	Pump is re-installed.
10/29/09	LPH removal pump malfunctions. Pump is removed for repair.
3/2010	LPH removal pump is re-installed in MW-2.
9/3/2010	Complete installation of new monitoring wells MW-9 and MW-10
9/8/2010	Aquifer testing is attempted and fails.
9/13/2010	EFR conducted on MW-2, MW-8 and MW-10
9/14/2010	Slug testing is performed
11/29/2010	Corrective Action Plan submitted to MDE.
6/1/2011	Corrective Action Plan approved by MDE.
1/10/2012	MW-10 abandoned and reinstalled to 31 feet below grade as MW-10R.
5/9/2012	DPVE System Start-Up.
2/28/2014	System motor broken; system taken off-line and product monitored.
5/30/2014	System restarted when 0.10 feet of product was observed in MW-2.
6/25/2014	System taken off-line and product monitored per approved gauging schedule.
1/22/2016	Master diesel dispenser 19 compromised due to tractor-trailer driver running into pump island.
1/26/2016	MDE notified of the Master dispenser 19 incident by Pilot.

2/5/2016	Product Recovery Plan submitted to MDE.
2/8/2016	Product Recovery Plan approved by MDE.
2/8/2016	Vac event conducted on MW-2, TF-2, and MW-9.
2/12/2016	Soil Investigation Work Plan submitted to MDE.
2/17/2016	Weekly water level gauging initiated.
3/23/2016	Soil Investigation Work Plan approved by MDE.
4/18/2016	Subsurface Investigation work performed.
6/21/2016	Subsurface Investigation Report submitted to MDE.
7/20/2016	Subsurface Investigation Report Addendum Section 4.2 submitted to MDE.

REGULATORY INTERACTION:

Agency:	Maryland Department of the Environment
Agency Contact:	Susan Bull
MDE Case #	97-0699CE 2016-0422-CE (January 22, 2016 Incident)

REPORTING PERIOD ACTIVITIES:

Groundwater Sampling Frequency:	Quarterly
Analytical Laboratory / Methods:	Accutest Laboratories VO+10 by 8260B, TPH-GRO, and TPH-DRO
Gauging Frequency:	Monthly
Other Activities:	Subsurface Investigation Report & Section 4.2 Addendum Submittal

DATA SUMMARY:

Groundwater Sampling Date:	July 6, 2016
# of Wells / # Sampled:	12 / 9 MW-2, TF-1, and TF-2 No samples collected due to presence of LPH.
Depth to Water (ft):	7.24 feet (TF-1) to 27.60 feet (MW-10R) feet below top of casing
Dissolved Benzene Range:	ND (MW-1 and MW-5) to 2.6 µg/l (MW-7 and MW-10)
Dissolved BTEX Range:	ND (MW-1 and MW-5) to 4.22 µg/l (MW-7)
Dissolved MTBE Range:	ND (MW-1, MW-3, MW-6, MW-7, MW-8, and MW-9) to 2.9 µg/l (MW-4R)
Dissolved TPH-DRO:	0.373 mg/l (MW-6) to 17.2 mg/l (MW-10R)
Dissolved TPH-GRO:	ND (MW-1, MW-3, MW-4R, MW-5, MW-6, MW-8, MW-9) to 0.351 mg/l (MW-10R)

LPH REMOVAL SUMMARY:

HIT Events:	14,591 gallons of LPH and groundwater recovered

SpillBuster Operation:	94 gallons of LPH recovered
DPVE Operation:	369,624 gallons of LPH and groundwater recovered

FUTURE ACTIVITIES:

Monthly well gauging/ LPH Monitoring
Quarterly gauging and sampling of monitoring wells

ATTACHMENTS:

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Table 3	Monitoring Well Gauging Data
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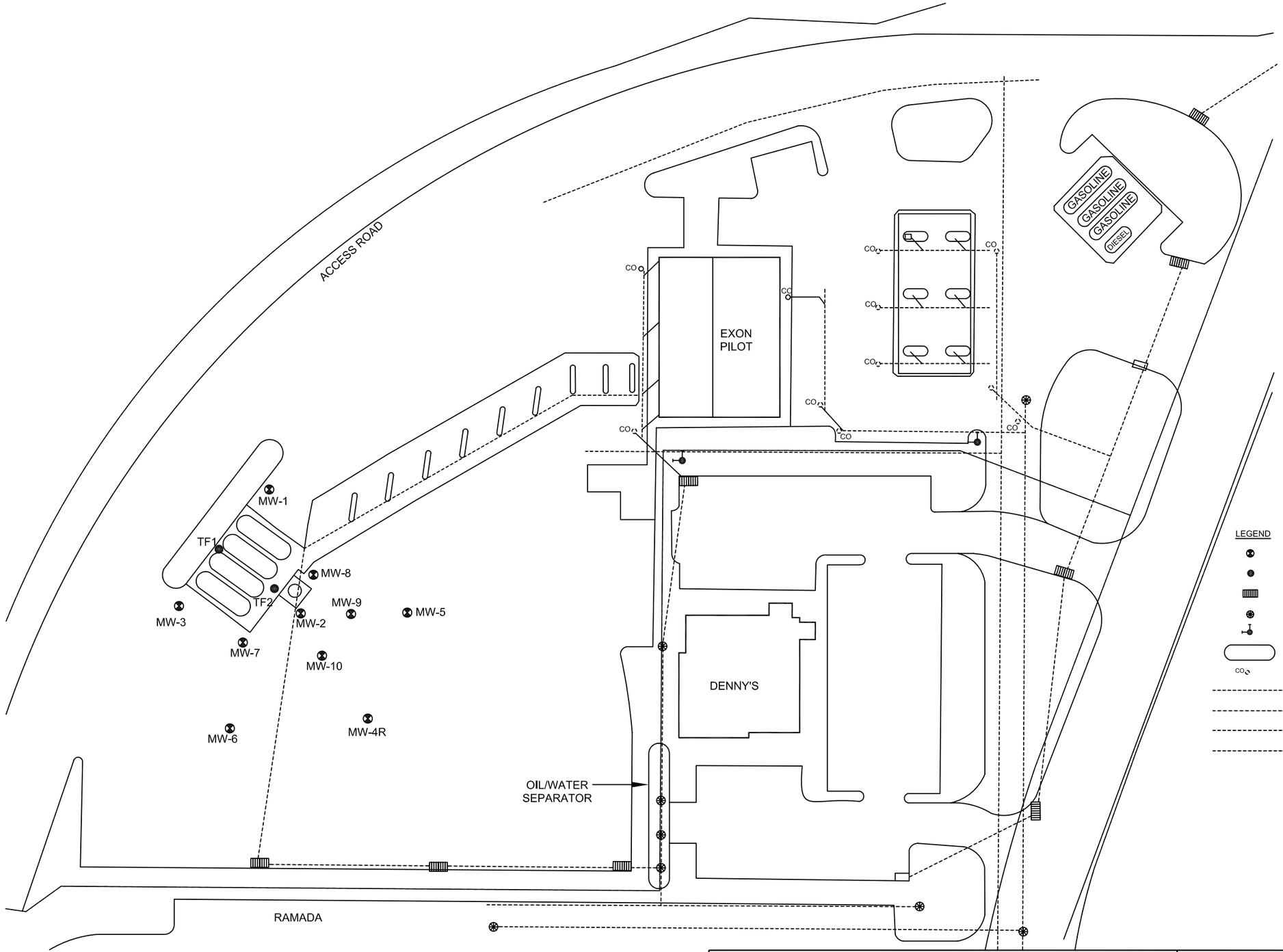


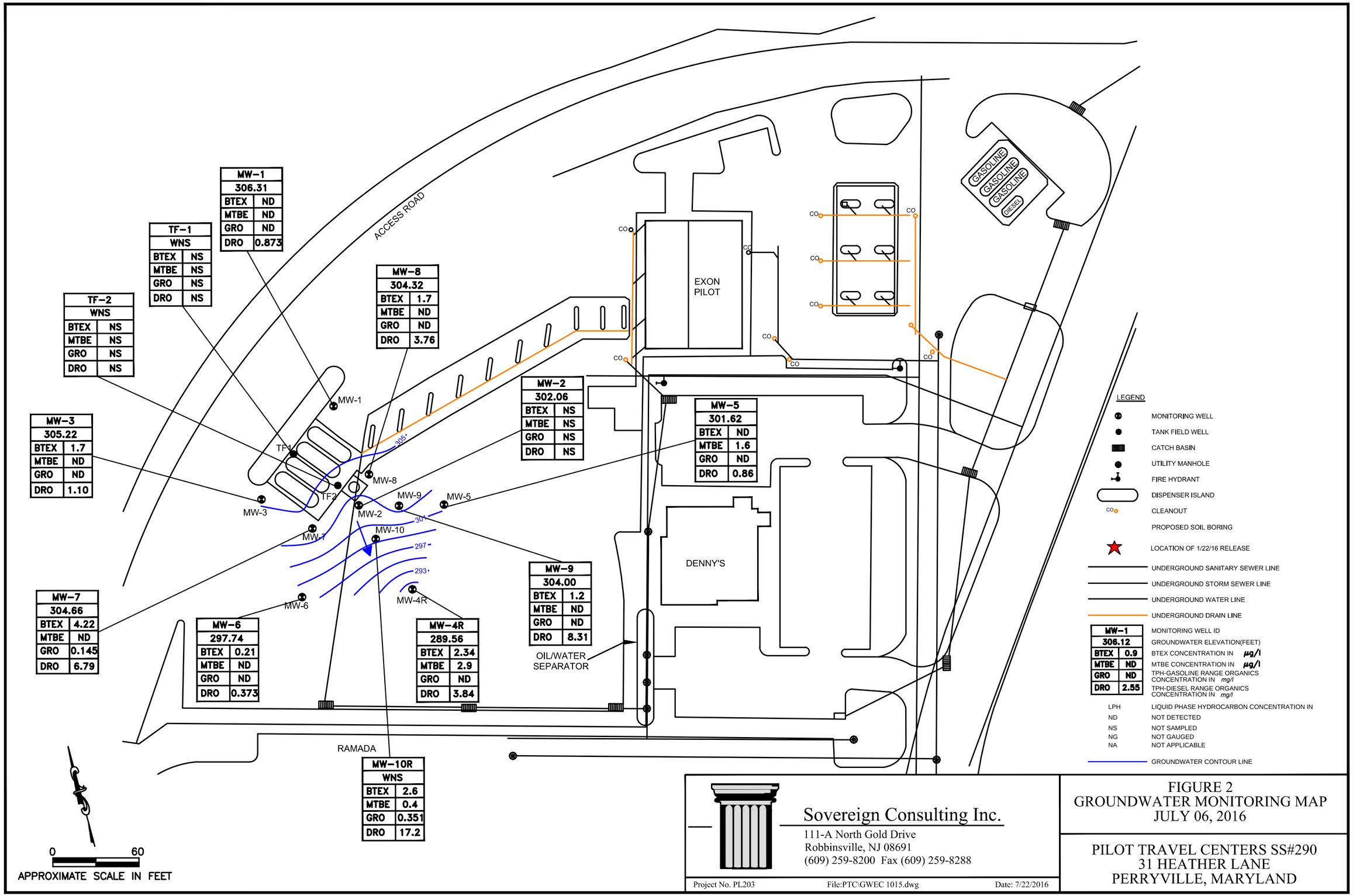
0 60
APPROXIMATE SCALE IN FEET

Sovereign Consulting Inc.
111-A North Gold Drive
Robbinsville, NJ 08691
(609) 259-8200 Fax (609) 259-8288

Project No. PL203 File:PTC\SITE PLAN(new).dwg Date: 10/26/10

FIGURE 1
SITE PLAN

PILOT TRAVEL CENTERS SS#290
31 HEATHER LANE
PERRYVILLE, MARYLAND



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Project No. PL203 File:PTC\GWEC 1015.dwg Date: 7/22/2016

FIGURE 2
GROUNDWATER MONITORING MAP
JULY 06, 2016

PILOT TRAVEL CENTERS SS#290
31 HEATHER LANE
PERRYVILLE, MARYLAND

Figure 3. Pilot Travel Center #290
31 Heather Lane, Perryville, MD
MW-2: Groundwater Elevation and Product Thickness vs. Time

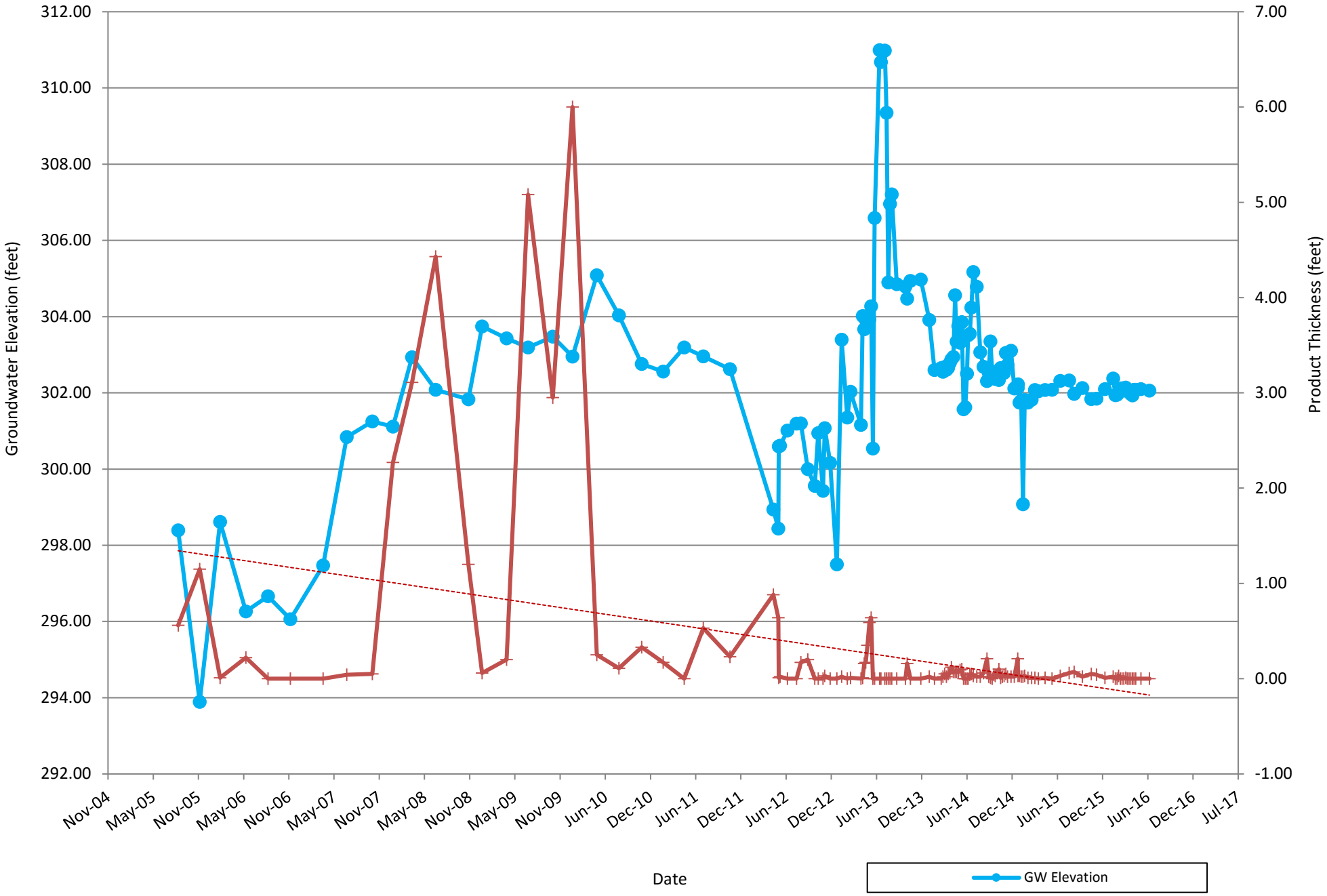
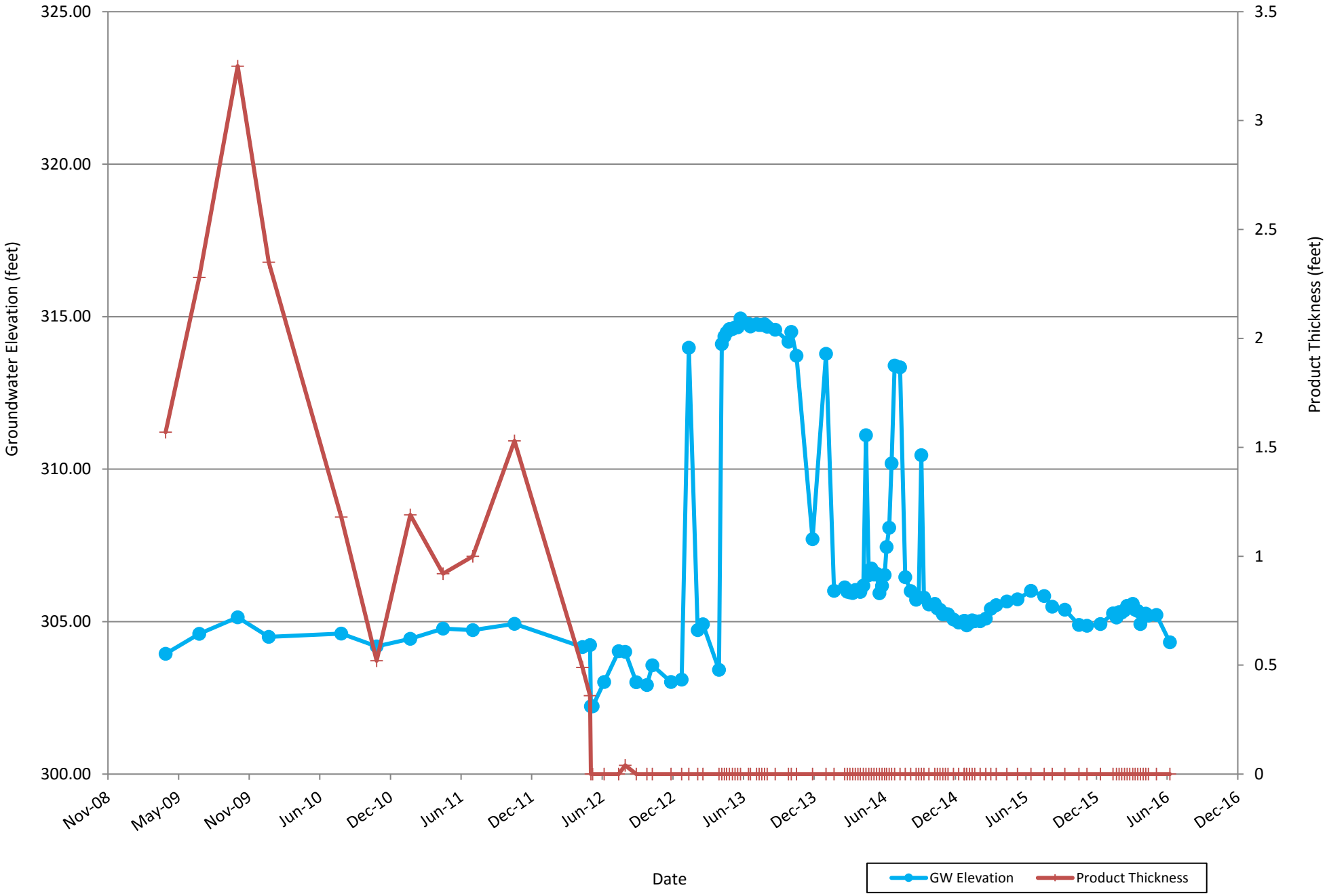


Figure 4. Pilot Travel Center #290
31 Heather Lane, Perryville, MD
MW-8: Groundwater Elevation and Product Thickness vs. Time



TABLES

Table 1

GROUNDWATER GAUGING AND ANALYTICAL DATA SUMMARY

Pilot Travel Center #290
31 Heather Lane
Perryville, Maryland

Well ID	Date	Well Elevation	DTW	Product Thickness	GW Elevation (Corrected)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	BTEX (µg/l)	MTBE (µg/l)	Naphthalene (ug/l)	TPH-GRO (mg/L)	TPH - DRO (mg/l)	Analytical Methods
						MDE Standards									
						5.0	1,000	700	10,000	NA	20	0.65	0.047	0.047	-
MW-1	08/18/05	317.72	12.27	0.00	305.45	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	NA	***0.17***	8260B/8015M
	11/14/05	317.72	12.59	0.00	305.13	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	NA	***0.23***	8260B/8015M
	02/06/06	317.72	11.82	0.00	305.90	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	NA	***0.15***	8260B/8015M
	05/22/06	317.72	12.47	0.00	305.25	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	NA	<0.1	8260B/8015M
	08/21/06	317.72	12.20	0.00	305.52	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	NA	<0.1	8260B/8015M
	11/20/06	317.72	11.71	0.00	306.01	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	NA	<0.1	8260B/8015M
	04/03/07	317.72	11.45	0.00	306.27	<5.0	5.2	<5.0	6.5	11.7	<5.0	<5.0	NA	***0.43***	8260B/8015M
	07/09/07	317.72	12.27	0.00	305.45	<1.0	<1.0	<2.0	<2.0	ND	<1.0	<2.0	NA	***0.10 J***	8260B/8015M
	10/22/07	317.72	13.35	0.00	304.37	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	NA	***0.59***	8260B/8015M
	01/07/08	317.72	13.20	0.00	304.52	***14***	<5.0	<5.0	28	42	<5.0	***14***	NA	***0.72***	8260B/8015M
	04/01/08	317.72	11.47	0.00	306.25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	***0.94***	8260B/8015M
	07/07/08	317.72	11.27	0.00	306.45	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	***<5.0***	NA	***280***	8260B/8015M
	11/18/08	317.72	12.81	0.00	304.91	***23***	<5.0	<5.0	<5.0	23.0	<5.0	<5.0	NA	***6.2***	8260B/8015M
	01/13/09	317.72	12.69	0.00	305.03	***18***	<5.0	<5.0	<5.0	18.0	<5.0	<5.0	NA	***0.64***	8260B/8015M
	04/23/09	317.72	12.01	0.00	305.71	***17***	<5.0	<5.0	<5.0	17.0	<5.0	<5.0	***0.068***	***0.53***	8260B/8015M
	07/20/09	317.72	11.63	0.00	306.09	***7.8***	<5.0	<5.0	<5.0	7.8	<5.0	<5.0	<0.1	***0.14***	8260B/8015M
	10/29/09	317.72	12.15	0.00	305.57	***11.0***	<1.0	<1.0	<1.0	11.0	<1.0	<1.0	<0.1	***<1.1***	8260B/8015M
	01/18/10	317.72	NM	0.00	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	04/27/10	317.72	10.47	0.00	307.25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.1	***0.85***	8260B/8015M
	07/27/10	317.72	12.08	0.00	305.64	***6.3***	<1.0	<1.0	<1.0	6.3	<1.0	1	<0.1	***2.20***	8260B/8015M
	10/28/10	317.72	12.61	0.00	305.11	***5.2***	<1.0	<1.0	<1.0	5.2	<1.0	<1.0	<0.050	***0.70***	8260B/8015M
	01/24/11	317.72	13.31	0.00	304.41	***10.9***	0.33 J	4.1	1.1	16.4	<1.0	NA	<0.011	***1.77***	8260B/8015M
	04/20/11	317.72	11.27	0.00	306.45	<1.0	<1.0	<1.0	<1.0	<1.0	0.31 J	NA	<0.011	***3.19***	8260B/8015M
	07/07/11	317.72	11.60	0.00	306.12	0.90J	<0.15	<0.21	<0.17	0.9	<1.0	<0.68	<0.016	***2.66***	8260B/8015M
	10/24/11	317.72	10.88	0.00	306.84	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<0.016	***2.12***	8260B/8015M
	01/09/12	317.72	11.39	0.00	306.33	1.4	<1.0	<1.0	<1.0	1.4	<1.0	NA	<0.016	***1.38***	8260B/8015M
	04/19/12	317.72	11.94	0.00	305.78	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<0.016	***2.61***	8260B/8015M
	07/23/12	317.72	12.65	0.00	305.07	2.9	<0.23	<0.23	<0.24	2.9	<0.16	NA	<0.040	***1.47***	8260B/8015M
	10/19/12	317.72	13.65	0.00	304.07	-	-	-	-	-	-	-	<0.040	***0.422***	8260B/8015M
	11/15/12	317.72	13.33	0.00	304.39	2.0	4.7	6.2	28.6	41.5	<0.16	NA	-	-	8260B/8015M
	01/23/13	317.72	11.94	0.00	305.78	<0.24	<0.23	<0.23	<0.24	ND	<0.16	<1.1	<0.040	***3.080***	8260B/8015M
	04/26/13	317.72	10.18	0.00	307.54	<0.24	<0.23	<0.23	<0.24	ND	<0.16	<1.1	<0.040	***0.762***	8260B/8015M
	07/19/13	317.72	5.85	0.00	311.87	<0.24	<0.23	<0.23	<0.24	ND	<0.16	<1.1	<0.038	***0.221***	8260B/8015M
	10/18/13	317.72	5.94	0.00	311.78	<0.28	<0.44	<0.21	<0.19	ND	<0.29	<0.25	<0.038	***0.497***	8260B/8015M
	01/17/14	317.72	8.11	0.00	309.61	<0.28	<0.44	<0.21	<0.19	ND	<0.29	<0.25	<0.038	***0.588***	8260B/8015M
	04/25/14	317.72	8.65	0.00	309.07	<0.28	<0.44	<0.21	<0.19	ND	<0.29	<0.25	<0.038	***0.268***	8260B/8015M
	07/08/14	317.72	7.21	0.00	310.51	<0.21	<0.22	1.9	7.9	9.8	<0.26	***5.5***	***0.333***	***0.980***	8260B/8015M
	10/14/14	317.72	10.71	0.00	307.01	0.65	<0.22	1.6	<0.20	2.3	<0.26	<0.34	<0.038	***0.575***	8260B/8015M
	01/15/15	317.72	11.64	0.00	306.08	<0.21	<0.22	<0.40	1.1	1.1	<0.26	0.54 J	<0.038	***15.4***	8260B/8015M
	04/08/15	317.72	9.51	0.00	308.21	<0.24	<0.16	0.82 J	0.66 J	1.5	<0.24	***7.0***	<0.038	***11.1***	8260B/8015M
	07/07/15	317.72	8.46	0.00	309.26	<0.24	7.4	7.2	34.8	49.4	<0.24	***3.8 J***	***0.379***	***12.2***	8260B/8015M
	10/05/15	317.72	16.44	0.00	301.28	<0.24	<0.16	<0.27	0.44 J	0.44	<0.24	***1.0 J***	<0.038	***2.91***	8260B/8015M
	01/06/16	317.72	11.70	0.00	306.02	<0.24	<0.16	<0.27	<0.17	ND	<0.24	<0.20	<0.038	***6.35***	8260B/8015M
	02/08/16	317.72	11.00	0.00	306.72	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	02/17/16	317.72	11.10	0.00	306.62	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	02/24/16	317.72	10.41	0.00	307.31	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/02/16	317.72	10.82	0.00	306.90	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/09/16	317.72	10.45	0.00	307.27	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/16/16	317.72	10.75	0.00	306.97	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/23/16	317.72	10.45	0.00	307.27	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/31/16	317.72	NG	NA	NG	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	04/06/16	317.72	10.85	0.00	306.87	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	04/13/16	317.72	11.00	0.00	306.72	<0.24	<0.16	<0.27	<0.17	ND	<0.24	<0.20	<0.055	***9.65***	8260B/8015M
	04/20/16	317.72	11.07	0.00	306.65	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	04/27/16	317.72	11.14	0.00	306.58	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	05/04/16	317.72	11.05	0.00	306.67	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	05/11/16	317.72	11.17	0.00	306.55	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	06/01/16	317.72	11.16	0.00	306.56	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	07/06/16	317.72	11.41	0.00	306.31	<0.14	<0.23	<0.20	<0.21	ND	<0.34	<0.39	<0.10	**0.873**	8260B/8015M

Table 1

GROUNDWATER GAUGING AND ANALYTICAL DATA SUMMARY

Pilot Travel Center #290
31 Heather Lane
Perryville, Maryland

Well ID	Date	Well Elevation	DTW	Product Thickness	GW Elevation (Corrected)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	BTEX (µg/l)	MTBE (µg/l)	Naphthalene (ug/l)	TPH-GRO (mg/L)	TPH - DRO (mg/l)	Analytical Methods
MW-2	08/18/05	315.76	17.79	0.56	298.39	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	8260B/8015M
	11/14/05	315.76	22.73	1.15	293.89	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	8260B/8015M
	02/06/06	315.76	17.15	0.01	298.62	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	8260B/8015M
	05/22/06	315.76	19.66	0.22	296.27	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	8260B/8015M
	08/21/06	315.76	19.10	0.00	296.66	<5.0	<5.0	<5.0	5.4	5.4	11	***15***	NA	<0.1	8260B/8015M
	11/20/06	315.76	19.70	0.00	296.06	<50	<50	<50	<50	ND	<50	<50	NA	***340***	8260B/8015M
	04/03/07	315.76	18.29	0.00	297.47	<5.0	5.4	7.8	32.2	45.4	<5.0	***19***	NA	***260***	8260B/8015M
	07/09/07	315.76	14.95	0.04	300.84	3.5	5.6	18.0	56.3	83.4	3	***49 B***	NA	***210***	8260B/8015M
	10/22/07	315.76	14.55	0.05	301.25	<5.0	<5.0	9.9	28.0	27.9	<5.0	***45***	NA	***210***	8260B/8015M
	01/14/08	315.76	16.35	2.27	301.11	***93***	280	78	750	1,201	<5.0	***230***	NA	***170***	8260B/8015M
	04/01/08	315.76	15.16	3.11	302.93	*<5.0*	890	420	4,000	5,310	<5.0	***460***	NA	***360***	8260B/8015M
	07/07/08	315.76	17.00	4.43	302.08	***54***	220	89	710	1,073	<5.0	***390***	NA	***44***	8260B/8015M
	11/18/08	315.76	14.83	1.20	301.83	***26***	29	21	134	210	<5.0	***130***	NA	***61***	8260B/8015M
	01/13/09	315.76	12.06	0.06	303.75	***<25***	55	46	336	437	<25	***270***	NA	***910***	8260B/8015M
	04/23/09	315.76	12.48	0.20	303.43	***18***	14	17	103	152	<5.0	***120***	***1.7***	***130***	8260B/8015M
	07/20/09	315.76	16.38	5.08	303.19	***27***	36	56	430	549	<5.0	***340***	***11.0***	***8800***	8260B/8015M
	10/29/09	315.76	14.50	2.95	303.47	***28***	17	52	270	367	<2.0	***240***	***7.7***	***2300***	8260B/8015M
	01/18/10	315.76	17.31	6.00	302.95	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	8260B/8015M
	04/27/10	315.76	10.86	0.25	305.09	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	8260B/8015M
	07/27/10	315.76	11.81	0.11	304.03	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	8260B/8015M
	10/28/10	315.76	13.25	0.33	302.76	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	8260B/8015M
	01/24/11	315.76	13.33	0.17	302.56	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	8260B/8015M
	04/20/11	315.76	12.57	0.00	303.19	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	8260B/8015M
	07/07/11	315.76	13.20	0.53	302.96	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	8260B/8015M
	10/24/11	315.76	13.31	0.23	302.62	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	8260B/8015M
	04/19/12	315.76	17.48	0.88	298.94	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	8260B/8015M
	07/23/12	315.76	14.57	0.00	301.19	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	10/19/12	315.76	14.82	0.00	300.94	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	11/15/12	315.76	14.71	0.03	301.07	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	01/23/13	315.76	12.38	0.02	303.40	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	04/26/13	315.76	12.21	0.16	303.67	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	07/19/13	315.76	4.78	0.00	310.98	<0.24	0.26 J	0.97 J	6.4	7.63	ND	***6.3***	<0.038	***27.9***	8260B/8015M
	10/18/13	315.76	11.41	0.16	304.47	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	01/17/14	315.76	11.86	0.02	303.92	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	04/25/14	315.76	12.87	0.07	302.94	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	07/08/14	315.76	11.56	0.05	304.24	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	10/14/14	315.76	13.42	0.03	302.36	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	01/15/15	315.76	13.56	0.03	302.22	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	04/08/15	315.76	13.72	0.00	302.04	1.1	<0.16	0.76 J	2.4	4.26	<0.24	***74.2***	***1.70***	***743***	8260B/8015M
	07/07/15	315.76	13.47	0.03	302.31	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	10/05/15	315.76	13.65	0.02	302.13	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	01/06/16	315.76	13.67	0.01	302.10	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	02/08/16	315.76	13.40	0.02	302.38	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	02/17/16	315.76	13.82	0.00	301.94	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	02/24/16	315.76	13.81	0.00	301.95	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/02/16	315.76	13.79	0.03	301.99	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/09/16	315.76	13.70	0.00	302.06	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/16/16	315.76	13.64	0.00	302.12	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/23/16	315.76	13.65	0.00	302.11	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/31/16	315.76	13.63	0.01	302.14	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	04/06/16	315.76	13.71	Sheen	302.05	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	04/13/16	315.76	13.74	0.00	302.02	1.3	0.17 J	<0.27	0.36	1.83	0.27	**132**	**0.559**	**325 a**	8260B/8015M
	04/20/16	315.76	13.79	0.00	301.97	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	04/27/16	315.76	13.83	0.00	301.93	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	05/04/16	315.76	13.68	0.00	302.08	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	05/11/16	315.76	13.68	Sheen	302.08	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	06/01/16	315.76	13.66	0.00	302.10	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	07/06/16	315.76	13.70	Sheen	302.06	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M

Table 1

GROUNDWATER GAUGING AND ANALYTICAL DATA SUMMARY

Pilot Travel Center #290
31 Heather Lane
Perryville, Maryland

Well ID	Date	Well Elevation	DTW	Product Thickness	GW Elevation (Corrected)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	BTEX (µg/l)	MTBE (µg/l)	Naphthalene (ug/l)	TPH-GRO (mg/L)	TPH - DRO (mg/l)	Analytical Methods
MW-3	08/18/05	316.12	11.00	0.00	305.12	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	NA	***0.42***	8260B/8015M
	11/14/05	316.12	11.47	0.00	304.65	<5.0	<5.0	<5.0	<5.0	ND	***23***	<5.0	NA	***0.58***	8260B/8015M
	02/06/06	316.12	10.36	0.00	305.76	<5.0	<5.0	<5.0	<5.0	ND	***20***	<5.0	NA	***0.71***	8260B/8015M
	05/22/06	316.12	11.06	0.00	305.06	<5.0	<5.0	<5.0	<5.0	ND	6.5	<5.0	NA	***0.24***	8260B/8015M
	08/21/06	316.12	10.80	0.00	305.32	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	NA	***0.71***	8260B/8015M
	11/20/06	316.12	10.27	0.00	305.85	<5.0	<5.0	<5.0	<5.0	ND	5.8	<5.0	NA	***0.66***	8260B/8015M
	04/03/07	316.12	10.38	0.00	305.74	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	NA	***0.50***	8260B/8015M
	07/09/07	316.12	10.89	0.00	305.23	0.90 J	<1.0	<2.0	<2.0	0.90 J	2.6	0.32 BJ	NA	***0.39***	8260B/8015M
	10/22/07	316.12	12.00	0.00	304.12	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	NA	***1.40***	8260B/8015M
	01/07/08	316.12	11.84	0.00	304.28	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	NA	***0.77***	8260B/8015M
	04/01/08	316.12	10.25	0.00	305.87	***14***	<5.0	<5.0	<5.0	14	<5.0	<5.0	NA	***0.93***	8260B/8015M
	07/07/08	316.12	10.10	0.00	306.02	***11***	<5.0	<5.1	<5.2	11	<5.0	<5.0	NA	***0.77***	8260B/8015M
	11/18/08	316.12	11.66	0.00	304.46	***8.3***	<5.0	<5.0	<5.0	8.3	<5.0	<5.0	NA	***0.66***	8260B/8015M
	01/13/09	316.12	11.57	0.00	304.55	***8.2***	<5.0	<5.0	<5.0	8.2	<5.0	<5.0	NA	***5.20***	8260B/8015M
	04/23/09	316.12	11.65	0.00	304.47	***6.5***	<5.0	<5.0	<5.0	6.5	<5.0	<5.0	<0.1	***1.60***	8260B/8015M
	07/20/09	316.12	10.32	0.00	305.80	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.1	***0.47***	8260B/8015M
	10/29/09	316.12	10.71	0.00	305.41	***5.4***	<1.0	<1.0	<1.0	5	<1.0	<1.0	<0.1	***2.20***	8260B/8015M
	01/18/10	316.12	10.58	0.00	305.54	***6.7***	<1.0	<1.0	<1.0	7	<1.0	<0.1	<0.1	***0.91***	8260B/8015M
	04/27/10	316.12	9.66	0.00	306.46	***6.1***	<1.0	<1.0	<1.0	6.1	<1.0	<1.0	<0.1	***1.40***	8260B/8015M
	07/27/10	316.12	10.60	0.00	305.52	3.7	<1.0	<1.0	<1.0	3.7	<1.0	<1.0	<0.1	***0.90***	8260B/8015M
	10/28/10	316.12	11.08	0.00	305.04	4.8	<1.0	<1.0	<1.0	4.8	<1.0	<1.0	<0.050	***1.20***	8260B/8015M
	01/24/11	316.12	12.04	0.00	304.08	***6.7***	<1.0	<1.0	<1.0	6.7	<1.0	NA	<0.011	***1.60***	8260B/8015M
	04/20/11	316.12	10.55	0.00	305.57	***7.5***	<1.0	<1.0	1.2	8.7	<1.0	NA	<0.011	***2.62***	8260B/8015M
	07/07/11	316.12	10.54	0.00	305.58	***6.7***	<0.15	<0.21	<0.17	6.7	<0.18	<0.68	<0.016	***1.81***	8260B/8015M
	10/24/11	316.12	9.37	0.00	306.75	3.7	<1.0	0.43	<1.0	4.1	<1.0	NA	<0.016	***1.76***	8260B/8015M
	01/09/12	316.12	10.21	0.00	305.91	3.2	<1.0	<1.0	<1.0	3.2	<1.0	NA	<0.016	***1.30***	8260B/8015M
	04/19/12	316.12	11.28	0.00	304.84	3.6	<1.0	<1.0	<1.0	3.6	<1.0	NA	<0.016	***2.16***	8260B/8015M
	07/23/12	316.12	11.58	0.00	304.54	3.1	<0.23	<0.23	<0.24	3.1	<0.16	NA	<0.040	***1.76***	8260B/8015M
	10/19/12	316.12	12.61	0.00	303.51	-	-	-	-	-	-	-	<0.040	***1.29***	8260B/8015M
	11/15/12	316.12	12.06	0.00	304.06	2.8	<0.23	0.32 J	0.63 J	3.4 J	<0.16	NA	-	-	8260B/8015M
	01/23/13	316.12	11.14	0.00	304.98	1.3	<0.23	0.78 J	1.20	3.28 J	<0.16	***2.1 J***	<0.040	***10.40***	8260B/8015M
	04/26/13	316.12	9.77	0.00	306.35	2.0	<0.23	0.27 J	<0.24	2.3	<0.16	<1.8	<0.040	***5.76***	8260B/8015M
	07/19/13	316.12	6.11	0.00	310.01	0.98 J	<0.23	1.40	0.76 J	3.14	<0.16	<1.1	<0.038	***2.49***	8260B/8015M
	10/18/13	316.12	7.08	0.00	309.04	1.4	<0.44	0.63 J	0.25 J	2.28	<0.29	***0.89 J***	<0.038	***1.91***	8260B/8015M
	01/17/14	316.12	9.90	0.00	306.22	3.3	<0.44	<0.21	<0.19	3.30	<0.29	<0.25	<0.038	***1.58***	8260B/8015M
	04/25/14	316.12	9.87	0.00	306.25	0.36J	<0.44	<0.21	<0.19	0.36	<0.29	<0.25	<0.038	***0.61***	8260B/8015M
	07/08/14	316.12	7.94	0.00	308.18	<0.21	<0.22	0.70 J	1.70	2.40	<0.26	<0.34	<0.038	***0.727***	8260B/8015M
	10/14/14	316.12	10.14	0.00	305.98	3.5	<0.22	<0.40	<0.20	3.50	<0.26	<0.34	<0.038	***0.852***	8260B/8015M
	01/15/15	316.12	10.88	0.00	305.24	2.7	<0.22	<0.40	<0.20	2.7	<0.26	<0.34	<0.038	***0.971***	8260B/8015M
	04/08/15	316.12	10.24	0.00	305.88	3.1	<0.16	<0.27	<0.17	3.1	<0.24	***0.74 J***	<0.038	***0.920***	8260B/8015M
	07/07/15	316.12	9.86	0.00	306.26	2.6	<0.16	<0.27	<0.17	2.6	<0.24	<0.20	<0.038	***0.965***	8260B/8015M
	10/05/15	316.12	10.72	0.00	305.40	1.6	<0.16	<0.27	0.33 J	1.9	<0.24	***0.77 J***	<0.038	***0.954***	8260B/8015M
	01/06/16	316.12	11.20	0.00	304.92	2.2	<0.16	<0.27	<0.17	2.2	<0.24	<0.20	<0.038	***1.70***	8260B/8015M
	02/08/16	316.12	NG	NA	NG	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	02/17/16	316.12	10.79	0.00	305.33	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	02/24/16	316.12	10.74	0.00	305.38	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/02/16	316.12	10.60	0.00	305.52	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/09/16	316.12	10.32	0.00	305.80	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/16/16	316.12	10.51	0.00	305.61	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/23/16	316.12	10.48	0.00	305.64	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/31/16	316.12	10.49	0.00	305.63	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	04/06/16	316.12	10.69	0.00	305.43	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	04/13/16	316.12	10.75	0.00	305.37	1.2	<0.16	<0.27	<0.17	1.2	<0.24	<0.20	<0.055	***1.46***	8260B/8015M
	04/20/16	316.12	10.65	0.00	305.47	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	04/27/16	316.12	10.78	0.00	305.34	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	05/04/16	316.12	10.75	0.00	305.37	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	05/11/16	316.12	10.84	0.00	305.28	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	06/01/16	316.12	10.72	0.00	305.40	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	07/06/16	316.12	10.90	0.00	305.22	1.7	<0.23	<0.20	<0.21	1.7	<0.34	<0.39	<0.10	**1.10**	8260B/8015M

Table 1

GROUNDWATER GAUGING AND ANALYTICAL DATA SUMMARY

Pilot Travel Center #290
31 Heather Lane
Perryville, Maryland

Well ID	Date	Well Elevation	DTW	Product Thickness	GW Elevation (Corrected)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	BTEX (µg/l)	MTBE (µg/l)	Naphthalene (ug/l)	TPH-GRO (mg/L)	TPH - DRO (mg/l)	Analytical Methods
MW-4	11/14/05	Unknown	Dry	NA	Unknown	-	-	-	-	-	-	-	NA	-	8260B/8015M
	02/06/06	Unknown	24.22	0.00	Unknown	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	NA	N/A	8260B/8015M
	05/22/06	Unknown	24.17	0.00	Unknown	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	NA	***5.0***	8260B/8015M
	08/21/06	Unknown	24.70	0.00	Unknown	-	-	-	-	-	-	-	NA	-	8260B/8015M
	04/03/07	Unknown	Dry	NA	Unknown	-	-	-	-	-	-	-	NA	-	8260B/8015M
	07/09/07	Unknown	24.20	0.00	Unknown	-	-	-	-	-	-	-	NA	-	8260B/8015M
	10/22/07	Unknown	23.02	0.00	Unknown	-	-	-	-	-	-	-	NA	-	8260B/8015M
	01/07/08	Unknown	24.26	0.00	Unknown	-	-	-	-	-	-	-	NA	-	8260B/8015M
	04/01/08	Unknown	24.20	0.00	Unknown	-	-	-	-	-	-	-	NA	-	8260B/8015M
	07/07/08	Unknown	24.12	0.00	Unknown	-	-	-	-	-	-	-	NA	-	8260B/8015M
	11/18/08	Unknown	23.31	0.00	Unknown	-	-	-	-	-	-	-	NA	-	8260B/8015M
	01/13/09	Unknown	23.38	0.00	Unknown	-	-	-	-	-	-	-	NA	-	8260B/8015M
MW-4R	04/23/09	315.69	26.32	0.00	289.37	<5.0	<5.0	<5.0	<5.0	ND	5.1	5.0	<0.1	***0.15***	8260B/8015M
	07/20/09	315.69	26.20	0.00	289.49	<5.0	<5.0	<5.0	<5.0	ND	<5.0	***20***	<0.1	***0.56***	8260B/8015M
	10/29/09	315.69	26.31	0.00	289.38	4.9	<1.0	<1.0	<1.0	4.9	5.0	***15***	<0.1	***0.55***	8260B/8015M
	01/18/10	315.69	23.35	0.00	292.34	4.6	<1.0	<1.0	<1.0	4.6	4.7	***15***	<0.1	***0.17***	8260B/8015M
	04/27/10	315.69	26.17	0.00	289.52	4.4	<1.0	<1.0	<1.0	4.4	4.4	***12***	<0.1	***0.45***	8260B/8015M
	07/27/10	315.69	26.20	0.00	289.49	4.1	<1.0	<1.0	<1.0	4.1	3.5	***14***	<0.1	***0.22***	8260B/8015M
	10/28/10	315.69	26.44	0.00	289.25	4.2	<1.0	<1.0	<1.0	4.2	3.8	***20***	<0.05	***0.28***	8260B/8015M
	01/24/11	315.69	26.60	0.00	289.09	3.7	<1.0	<1.0	<1.0	3.7	3.8	NA	<0.011	***0.81***	8260B/8015M
	04/20/11	315.69	26.11	0.00	289.58	4.0	<1.0	<1.0	<1.0	4.0	3.9	NA	<0.011	***2.43***	8260B/8015M
	07/07/11	315.69	26.20	0.00	289.49	3.7	<0.15	<0.21	<0.17	3.7	3.6	<0.68	<0.016	***2.84***	8260B/8015M
	10/24/11	315.69	26.34	0.00	289.35	4.1	<1.0	<1.0	<1.0	4.1	3.5	NA	<0.016	***1.41***	8260B/8015M
	01/09/12	315.69	26.28	0.00	289.41	4.0	0.24 J	<1.0	<1.0	4.2	3.4	NA	<0.016	***0.59***	8260B/8015M
	04/19/12	315.69	26.15	0.00	289.54	3.0	0.37 J	<1.0	<1.0	3.4	3.2	NA	<0.016	***1.84***	8260B/8015M
	07/23/12	315.69	26.47	0.00	289.22	3.8	0.55 J	<0.23	<0.24	4.4	4.4	NA	<0.040	***0.998***	8260B/8015M
	10/19/12	315.69	26.14	0.00	289.55	-	-	-	-	-	-	-	<0.040	***1.15***	8260B/8015M
	11/15/12	315.69	26.65	0.00	289.04	1.6	<0.23	<0.23	<0.24	1.6	3.0	NA	-	-	8260B/8015M
	01/23/13	315.69	28.17	0.00	287.52	1.3	<0.23	<0.23	<0.24	1.3	3.3	***4.8 J***	<0.040	***4.80***	8260B/8015M
	04/26/13	315.69	25.97	0.00	289.72	1.9	<0.23	<0.23	<0.24	1.9	3.7	***6.3***	<0.040	***1.29***	8260B/8015M
	07/19/13	315.69	25.55	0.00	290.14	1.4	0.59 J	<0.23	<0.24	1.99	2.6	***5.3***	<0.038	***0.927***	8260B/8015M
	10/18/13	315.69	25.71	0.00	289.98	2.1	<0.44	<0.21	<0.19	2.10	3.2	***7.7***	<0.038	***0.687***	8260B/8015M
	01/17/14	315.69	26.05	0.00	289.64	2.2	<0.44	<0.21	<0.19	2.20	3.0	***4.9 J***	<0.038	***1.690***	8260B/8015M
	04/25/14	315.69	26.14	0.00	289.55	2.0	<0.44	<0.21	<0.19	2.0	2.4	***4.9J***	<0.038	***1.990***	8260B/8015M
	07/08/14	315.69	25.93	0.00	289.76	2.1	<0.22	<0.40	<0.20	2.1	2.8	***6.1***	<0.038	***2.890***	8260B/8015M
	10/14/14	315.69	25.95	0.00	289.74	2.2	<0.22	<0.40	<0.20	2.2	2.5	***6.8***	<0.038	***0.876***	8260B/8015M
	01/15/15	315.69	26.34	0.00	289.35	2.2	0.59 J	<0.40	<0.20	2.79	3.6	***4.4 J***	<0.038	***3.48***	8260B/8015M
	04/08/15	315.69	25.82	0.00	289.87	1.2	0.48 J	<0.27	<0.17	1.68	1.6	***2.3 J***	<0.038	***9.39***	8260B/8015M
	07/07/15	315.69	25.76	0.00	289.93	2.0	0.31 J	<0.27	<0.17	2.31	2.7	***3.1 J***	<0.038	***1.41***	8260B/8015M
	10/05/15	315.69	26.10	0.00	289.59	2.6	<0.16	<0.27	0.26 J	2.86	3.4	***6.3***	<0.038	***1.19***	8260B/8015M
	01/06/16	315.69	26.30	0.00	289.39	2.2	10.7	<0.27	<0.17	12.9	2.6	***2.1 J***	<0.038	***5.59***	8260B/8015M
	02/08/16	315.69	26.20	0.00	289.49	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	02/17/16	315.69	26.24	0.00	289.45	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	02/24/16	315.69	26.00	0.00	289.69	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/02/16	315.69	26.15	0.00	289.54	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/09/16	315.69	26.22	0.00	289.47	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/16/16	315.69	26.14	0.00	289.55	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/23/16	315.69	26.19	0.00	289.50	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/31/16	315.69	25.17	0.00	290.52	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	04/06/16	315.69	26.24	0.00	289.45	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	04/13/16	315.69	26.24	0.00	289.45	2.0	1.6	<0.27	<0.17	3.6	2.4	***2.5 J***	<0.055	***8.26***	8260B/8015M
	04/20/16	315.69	26.20	0.00	289.49	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	04/27/16	315.69	26.21	0.00	289.48	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	05/04/16	315.69	26.28	0.00	289.41	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	05/11/16	315.69	26.18	0.00	289.51	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	06/01/16	315.69	26.10	0.00	289.59	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	07/06/16	315.69	26.13	0.00	289.56	2.1	0.24 J	<0.20	<0.21	2.34 J	2.9	**2.1 J**	<0.10	**3.84**	8260B/8015M

Table 1

GROUNDWATER GAUGING AND ANALYTICAL DATA SUMMARY

Pilot Travel Center #290
31 Heather Lane
Perryville, Maryland

Well ID	Date	Well Elevation	DTW	Product Thickness	GW Elevation (Corrected)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	BTEX (µg/l)	MTBE (µg/l)	Naphthalene (ug/l)	TPH-GRO (mg/L)	TPH - DRO (mg/l)	Analytical Methods
MW-5	11/14/05	317.78	16.35	0.00	301.43	<5.0	<5.0	<5.0	<5.0	ND	7.8	<5.0	NA	***1.7***	8260B/8015M
	02/06/06	317.78	16.26	0.00	301.52	<5.0	<5.0	<5.0	<5.0	ND	5.7	<5.0	NA	***0.57***	8260B/8015M
	05/22/06	317.78	16.31	0.00	301.47	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	NA	***0.8***	8260B/8015M
	08/21/06	317.78	16.25	0.00	301.53	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	NA	***0.49***	8260B/8015M
	11/20/06	317.78	16.17	0.00	301.61	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	NA	***0.46***	8260B/8015M
	04/03/07	317.78	16.20	0.00	301.58	<5.0	<5.0	<5.0	6.1	6.1	<5.0	<5.0	NA	***0.49***	8260B/8015M
	07/09/07	317.78	16.19	0.00	301.59	<1.0	<1.0	<2.0	<2.0	ND	8.8	0.96 BJ	NA	***1.00***	8260B/8015M
	10/22/07	317.78	16.55	0.00	301.23	<5.0	<5.0	<5.0	16.0	16.0	5.2	***37***	NA	***6.80***	8260B/8015M
	01/07/08	317.78	16.53	0.00	301.25	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	NA	***1.20***	8260B/8015M
	04/01/08	317.78	16.20	0.00	301.58	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	***1.90***	8260B/8015M
	07/07/08	317.78	16.14	0.00	301.64	<5.0	<5.0	<5.0	<5.0	<5.0	7.5	<5.0	NA	***1.20***	8260B/8015M
	11/18/08	317.78	16.43	0.00	301.35	<5.0	<5.0	<5.0	<5.0	<5.0	5.9	<5.0	NA	***2.20***	8260B/8015M
	01/13/09	317.78	16.44	0.00	301.34	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	***2.40***	8260B/8015M
	04/23/09	317.78	16.44	0.00	301.34	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.1	***1.00***	8260B/8015M
	07/20/09	317.78	16.15	0.00	301.63	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.1	***1.10***	8260B/8015M
	10/29/09	317.78	16.24	0.00	301.54	2.6	<1.0	<1.0	<1.0	2.6	5.2	<1.0	<0.1	***1.40***	8260B/8015M
	01/18/10	317.78	16.20	0.00	301.58	3.5	<1.0	<1.0	<1.0	3.5	1.4	<0.1	<0.1	***0.90***	8260B/8015M
	04/27/10	317.78	16.04	0.00	301.74	3.1	<1.0	<1.0	<1.0	3.1	<1.0	<1.0	<0.1	***1.30***	8260B/8015M
	07/27/10	317.78	16.08	0.00	301.70	2.3	<1.0	<1.0	<1.0	2.3	1.3	***1.6***	<0.1	***0.82***	8260B/8015M
	10/28/10	317.78	17.51	0.00	300.27	<1.0	<1.0	<1.0	<1.0	<1.0	3.3	<1.0	<0.05	***1.80***	8260B/8015M
	01/24/11	317.78	16.49	0.00	301.29	1.1	<1.0	<1.0	<1.0	1.1	1.1	NA	<0.011	***2.82***	8260B/8015M
	04/20/11	317.78	16.22	0.00	301.56	1.5	<1.0	<1.0	<1.0	1.5	1.5	NA	<0.011	***4.93***	8260B/8015M
	07/07/11	317.78	16.19	0.00	301.59	0.88 J	<0.15	<0.21	<0.17	0.9	1.6	<0.68	<0.016	***4.41***	8260B/8015M
	10/24/11	317.78	16.08	0.00	301.70	1.9	<1.0	<1.0	<1.0	1.9	1.6	NA	<0.016	***2.42***	8260B/8015M
	01/09/12	317.78	16.14	0.00	301.64	1.1	<1.0	<1.0	<1.0	1.1	0.88	NA	<0.016	***2.09***	8260B/8015M
	04/19/12	317.78	16.26	0.00	301.52	0.78 J	<1.0	<1.0	<1.0	0.78 J	1.00	NA	<0.016	***2.80***	8260B/8015M
	07/23/12	317.78	16.37	0.00	301.41	0.70 J	<0.23	<0.23	<0.24	0.70 J	1.40	NA	<0.040	***2.78***	8260B/8015M
	10/19/12	317.78	16.74	0.00	301.04	-	-	-	-	-	-	-	<0.040	***1.41***	8260B/8015M
	11/15/12	317.78	16.62	0.00	301.16	0.37 J	<0.23	<0.23	<0.24	0.37 J	1.10	NA	-	-	8260B/8015M
	01/23/13	317.78	16.23	0.00	301.55	2.10	<0.23	0.25 J	0.41 J	2.76 J	0.67 J	***4.9 J***	<0.040	***3.01***	8260B/8015M
	04/26/13	317.78	16.05	0.00	301.73	2.20	<0.23	<0.23	<0.24	2.2	1.20	<1.1	<0.040	***1.69***	8260B/8015M
	07/19/13	317.78	15.65	0.00	302.13	<0.24	<0.28	<0.23	<0.24	ND	0.48 J	<1.1	<0.038	***0.38***	8260B/8015M
	10/18/13	317.78	15.73	0.00	302.05	0.67 J	<0.44	<0.21	<0.19	0.7	0.95 J	0.44 J	<0.038	***1.36***	8260B/8015M
	01/17/14	317.78	15.94	0.00	301.84	0.60 J	<0.44	<0.21	<0.19	0.6	0.69 J	<0.25	<0.038	***1.53***	8260B/8015M
	04/25/14	317.78	16.07	0.00	301.71	0.43 J	<0.44	<0.21	<0.19	0.43	0.43 J	0.35 J	<0.038	***1.04***	8260B/8015M
	07/08/14	317.78	16.00	0.00	301.78	0.36 J	<0.22	<0.40	<0.20	0.36	1.9	<0.34	<0.038	***1.25***	8260B/8015M
	10/14/14	317.78	16.70	0.00	301.08	0.22 J	<0.22	<0.40	<0.20	0.22	1.2	<0.34	<0.038	***1.06***	8260B/8015M
	01/15/15	317.78	16.17	0.00	301.61	<0.21	<0.22	<0.40	<0.20	ND	1.3	<0.34	<0.038	***1.26***	8260B/8015M
	04/08/15	317.78	16.12	0.00	301.66	<0.24	<0.16	<0.27	<0.17	ND	0.87 J	***1.4 J***	<0.038	***1.10***	8260B/8015M
	07/07/15	317.78	16.12	0.00	301.66	<0.24	<0.16	<0.27	<0.17	ND	0.96 J	***1.5 J***	<0.038	***1.27***	8260B/8015M
	10/05/15	317.78	16.14	0.00	301.64	0.38 J	<0.16	<0.27	<0.17	0.38	2.1	***0.94 J***	<0.038	***0.708***	8260B/8015M
	01/06/16	317.78	16.20	0.00	301.58	1.3	<0.16	<0.27	<0.17	1.3	<0.24	***1.6 J***	<0.038	***6.34***	8260B/8015M
	02/08/16	317.78	16.18	0.00	301.60	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	02/17/16	317.78	16.18	0.00	301.60	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	02/24/16	317.78	16.19	0.00	301.59	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/02/16	317.78	16.20	0.00	301.58	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/09/16	317.78	16.18	0.00	301.60	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/16/16	317.78	16.10	0.00	301.68	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/23/16	317.78	16.13	0.00	301.65	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/31/16	317.78	16.10	0.00	301.68	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	04/06/16	317.78	16.19	0.00	301.59	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	04/13/16	317.78	16.17	0.00	301.61	<0.24	<0.16	<0.27	<0.17	ND	0.7	<0.20	<0.055	***2.49***	8260B/8015M
	04/20/16	317.78	16.16	0.00	301.62	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	04/27/16	317.78	16.15	0.00	301.63	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	05/04/16	317.78	16.15	0.00	301.63	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	05/11/16	317.78	16.15	0.00	301.63	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	06/01/16	317.78	16.12	0.00	301.66	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	07/06/16	317.78	16.16	0.00	301.62	<0.14	<0.23	<0.20	<0.21	ND	1.6	<0.39	<0.10	**0.86**	8260B/8015M

Table 1

GROUNDWATER GAUGING AND ANALYTICAL DATA SUMMARY

Pilot Travel Center #290
31 Heather Lane
Perryville, Maryland

Well ID	Date	Well Elevation	DTW	Product Thickness	GW Elevation (Corrected)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	BTEX (µg/l)	MTBE (µg/l)	Naphthalene (ug/l)	TPH-GRO (mg/L)	TPH - DRO (mg/l)	Analytical Methods
MW-6	11/14/05	315.48	18.09	0.00	297.39	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	NA	***0.11***	8260B/8015M
	02/06/06	315.48	17.64	0.00	297.84	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	NA	<0.11	8260B/8015M
	05/22/06	315.48	17.91	0.00	297.57	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	NA	***0.16***	8260B/8015M
	08/21/06	315.48	17.73	0.00	297.75	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	NA	***0.13***	8260B/8015M
	11/20/06	315.48	17.64	0.00	297.84	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	NA	***0.19***	8260B/8015M
	04/03/07	315.48	17.61	0.00	297.87	<5.0	<5.0	<5.0	5.7	5.7	<5.0	<5.0	NA	<0.1	8260B/8015M
	07/09/07	315.48	17.73	0.00	297.75	<1.0	<1.0	<2.0	<2.0	ND	<1.0	<2.0	NA	***0.072 J***	8260B/8015M
	10/22/07	315.48	18.30	0.00	297.18	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	NA	***0.60***	8260B/8015M
	01/07/08	315.48	18.35	0.00	297.13	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	NA	***0.23***	8260B/8015M
	04/01/08	315.48	17.77	0.00	297.71	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	***1.6***	8260B/8015M
	07/07/08	315.48	17.57	0.00	297.91	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	***0.13***	8260B/8015M
	11/18/08	315.48	18.2	0.00	297.28	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	***0.2***	8260B/8015M
	01/13/09	315.48	18.27	0.00	297.21	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	***0.44***	8260B/8015M
	04/23/09	315.48	18.11	0.00	297.37	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	ND	***0.25***	8260B/8015M
	07/20/09	315.48	17.68	0.00	297.80	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.1	***0.098***	8260B/8015M
	10/29/09	315.48	17.91	0.00	297.57	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.1	***0.26***	8260B/8015M
	01/18/10	315.48	17.73	0.00	297.75	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.1	***0.063***	8260B/8015M
	04/27/10	315.48	17.03	0.00	298.45	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.1	***0.77***	8260B/8015M
	07/27/10	315.48	17.08	0.00	298.40	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.1	<0.05	8260B/8015M
	10/28/10	315.48	17.51	0.00	297.97	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.05	***0.58***	8260B/8015M
	01/24/11	315.48	NM	NM	NM	Frozen	Frozen	Frozen	Frozen	Frozen	Frozen	Frozen	Frozen	Frozen	8260B/8015M
	04/20/11	315.48	17.35	0.00	298.13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<0.011	***3.51***	8260B/8015M
	07/07/11	315.48	17.73	0.00	297.75	<0.22	<0.15	<0.21	<0.17	ND	<0.18	<0.68	<0.016	***3.57***	8260B/8015M
	10/24/11	315.48	17.46	0.00	298.02	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<0.016	***2.06***	8260B/8015M
	01/09/12	315.48	17.37	0.00	298.11	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<0.016	***1.50***	8260B/8015M
	04/19/12	315.48	17.84	0.00	297.64	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<0.016	***1.05***	8260B/8015M
	07/23/12	315.48	18.18	0.00	297.30	<0.24	<0.23	<0.23	<0.24	<0.23	<0.16	NA	<0.040	***1.07***	8260B/8015M
	10/19/12	315.48	18.03	0.00	297.45	-	-	-	-	-	-	-	<0.040	***<0.053***	8260B/8015M
	11/15/12	315.48	18.49	0.00	296.99	<0.24	<0.23	<0.23	<0.24	<0.23	<0.16	NA	-	-	8260B/8015M
	01/23/13	315.48	18.24	0.00	297.24	<0.24	<0.23	<0.23	<0.24	ND	<0.16	<1.1	<0.040	***1.82***	8260B/8015M
	04/26/13	315.48	17.72	0.00	297.76	2.0	<0.23	<0.23	<0.24	2.0	<0.16	<1.1	<0.040	***0.677***	8260B/8015M
	07/19/13	315.48	16.59	0.00	298.89	<0.24	<0.23	<0.24	<0.24	ND	<0.16	<1.1	<0.38	***0.375***	8260B/8015M
	10/18/13	315.48	16.91	0.00	298.57	<0.28	<0.44	<0.21	<0.19	ND	<0.29	<0.25	<0.038	***0.557***	8260B/8015M
	01/17/14	315.48	17.55	0.00	297.93	<0.28	<0.44	<0.21	<0.19	ND	<0.29	<0.25	<0.038	***0.845***	8260B/8015M
	04/25/14	315.48	17.38	0.00	298.10	<0.28	<0.44	<0.21	<0.19	ND	<0.29	<0.25	<0.038	***0.809***	8260B/8015M
	07/08/14	315.48	17.28	0.00	298.20	0.27 J	<0.22	<0.40	<0.20	0.27	<0.26	<0.34	<0.038	<0.080	8260B/8015M
	10/14/14	315.48	17.78	0.00	297.70	0.22 J	<0.22	<0.40	<0.20	0.22	<0.26	<0.34	<0.038	***0.693***	8260B/8015M
	01/15/15	315.48	18.03	0.00	297.45	<0.21	<0.22	<0.40	<0.20	ND	<0.26	<0.34	<0.038	***0.499***	8260B/8015M
	04/08/15	315.48	17.70	0.00	297.78	<0.24	<0.16	<0.27	<0.17	ND	<0.24	<0.20	<0.038	***0.383***	8260B/8015M
	07/07/15	315.48	17.44	0.00	298.04	<0.24	<0.16	<0.27	<0.17	ND	<0.24	<0.20	<0.038	***0.432***	8260B/8015M
	10/05/15	315.48	17.81	0.00	297.67	0.30 J	<0.16	<0.27	<0.17	0.30	<0.24	<0.20	<0.038	***0.376***	8260B/8015M
	01/06/16	315.48	18.10	0.00	297.38	<0.24	0.18 J	<0.27	<0.17	0.18	<0.24	<0.20	<0.038	<0.064	8260B/8015M
	02/08/16	315.48	17.86	0.00	297.62	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	02/17/16	315.48	17.86	0.00	297.62	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	02/24/16	315.48	15.80	0.00	299.68	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/02/16	315.48	17.78	0.00	297.70	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/09/16	315.48	17.73	0.00	297.75	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/16/16	315.48	17.62	0.00	297.86	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/23/16	315.48	17.67	0.00	297.81	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/31/16	315.48	17.64	0.00	297.84	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	04/06/16	315.48	17.73	0.00	297.75	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	04/13/16	315.48	17.70	0.00	297.78	<0.24	<0.16	<0.27	<0.17	ND	<0.24	<0.20	<0.055	***5.50***	8260B/8015M
	04/20/16	315.48	17.65	0.00	297.83	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	04/27/16	315.48	17.69	0.00	297.79	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	05/04/16	315.48	17.67	0.00	297.81	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	05/11/16	315.48	17.72	0.00	297.76	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	06/01/16	315.48	17.67	0.00	297.81	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	07/06/16	315.48	17.74	0.00	297.74	0.21	<0.23	<0.20	<0.21	0.21	<0.34	<0.39	<0.10	**0.373**	8260B/8015M

Table 1

GROUNDWATER GAUGING AND ANALYTICAL DATA SUMMARY

Pilot Travel Center #290
31 Heather Lane
Perryville, Maryland

Well ID	Date	Well Elevation	DTW	Product Thickness	GW Elevation (Corrected)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	BTEX (µg/l)	MTBE (µg/l)	Naphthalene (ug/l)	TPH-GRO (mg/L)	TPH - DRO (mg/l)	Analytical Methods
MW-7	04/23/09	317.09	15.16	0.00	301.93	***24***	<5.0	<5.0	<5.0	24	<5.0	<5.0	***0.13***	***2.3***	8260B/8015M
	07/20/09	317.09	16.29	0.00	300.8	***19***	<5.0	<5.0	<5.0	19	<5.0	<5.0	***0.14***	***1.6***	8260B/8015M
	10/29/09	317.09	17.17	0.00	299.92	***22***	<1.0	1.3	1.6	24.9	<1.0	<1.0	***0.19***	***3.2***	8260B/8015M
	01/18/10	317.09	17.11	0.00	299.98	***12***	<1.0	<1.0	1.1	13.1	<1.0	<0.1	***0.11***	***2.4***	8260B/8015M
	04/27/10	317.09	15.96	0.00	301.13	***13***	<1.0	<1.0	4	17	<1.0	***3.1***	<0.1	***2.8***	8260B/8015M
	07/27/10	317.09	17.08	0.00	300.01	***11***	<1.0	<1.0	1.1	12.1	<1.0	***1.1***	***0.11***	***1.8***	8260B/8015M
	10/28/10	317.09	17.03	0.00	300.06	***7.8***	<1.0	<1.0	1.2	9	<1.0	<1.0	***0.11***	***1.5***	8260B/8015M
	01/24/11	317.09	18.13	0.00	298.96	***5***	<1.0	<1.0	0.32 J	5.32	0.42 J	NA	<0.011	***2.66***	8260B/8015M
	04/20/11	317.09	15.99	0.00	301.1	4.7	<1.0	0.67 J	0.86 J	6.23	<1.0	NA	<0.011	***8.43***	8260B/8015M
	07/07/11	317.09	15.99	0.00	301.1	4.8	<0.15	0.70J	1.5	7.0	<1.0	***3.0 J***	<0.016	***9.61***	8260B/8015M
	10/24/11	317.09	14.79	0.00	302.3	2.2	<1.0	0.23 J	2.3	4.7	<1.0	NA	<0.016	***5.33***	8260B/8015M
	01/09/12	317.09	15.2	0.00	301.89	***6.3***	0.4	2.8	1.6	11.1	<1.0	NA	<0.016	***2.68***	8260B/8015M
	04/19/12	317.09	16.04	0.00	301.05	4.4	<1.0	1.4	0.53 J	6.3	<1.0	NA	<0.016	***5.02***	8260B/8015M
	07/23/12	317.09	16.26	0.00	300.83	2.7	<0.23	0.57 J	0.65 J	3.9	0.29 J	NA	<0.040	***7.42***	8260B/8015M
	10/19/12	317.09	17.17	0.00	299.92	-	-	-	-	-	-	-	<0.040	***2.95***	8260B/8015M
	11/15/12	317.09	16.09	0.00	301	3.5	<0.23	0.33 J	<0.24	3.83 J	0.21 J	NA	-	-	8260B/8015M
	01/23/13	317.09	13.38	0.00	303.71	1.4	0.50 J	0.25 J	0.26 J	2.41 J	<0.16	***1.8 J***	<0.040	***10.2***	8260B/8015M
	04/26/13	317.09	11.91	0.00	305.18	1.9	<0.23	2.0	3.1	7.0	<0.16	***12.9***	<0.040	***9.36***	8260B/8015M
	07/19/13	317.09	9.87	0.00	307.22	***8.4***	0.58 J	16.1	16.8	25.1	<0.16	***76.7***	***0.222***	***5.7***	8260B/8015M
	10/18/13	317.09	10.12	0.00	306.97	***5.9***	<0.44	5.0	4.6	15.5	<0.29	***26.6***	<0.038	***4.28***	8260B/8015M
	01/17/14	317.09	10.93	0.00	306.16	***5.7***	<0.44	3.8	2.4	11.9	<0.29	***19.9***	<0.038	***3.08***	8260B/8015M
	04/25/14	317.09	11.43	0.00	305.66	3.7	<0.44	3.3	0.92 J	7.92	<0.29	***5.7***	<0.038	***1.96***	8260B/8015M
	07/08/14	317.09	10.25	0.00	306.84	2.3	<0.22	0.83 J	<0.20	3.13	<0.26	***9.3***	<0.038	***1.89***	8260B/8015M
	10/14/14	317.09	12.11	0.00	304.98	3.5	<0.22	3.4	0.97 J	7.87	<0.26	***10.2***	<0.038	***1.89***	8260B/8015M
	01/15/15	317.09	13.22	0.00	303.87	1.5	<0.22	0.43 J	0.21 J	2.14	<0.26	<0.34	<0.038	***3.51***	8260B/8015M
	04/08/15	317.09	12.06	0.00	305.03	1.8	1.4	0.85 J	2.0	6.05	<0.24	***2.6 J***	<0.038	***3.61***	8260B/8015M
	07/07/15	317.09	11.14	0.00	305.95	***5.7***	8.1	5.3	4.0	23.1	<0.24	***8.6***	<0.038	***2.52***	8260B/8015M
	10/05/15	317.09	12.44	0.00	304.65	4.9	0.31 J	1.9	1.0	8.1	<0.24	***2.6 J***	<0.038	***2.90***	8260B/8015M
	01/06/16	317.09	12.90	0.00	304.19	3.4	0.96	0.76 J	1.4	6.6	<0.24	***4.9 J***	<0.038	***3.32***	8260B/8015M
	02/08/16	317.09	12.56	0.00	304.53	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	02/17/16	317.09	12.66	0.00	304.43	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	02/24/16	317.09	12.40	0.00	304.69	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/02/16	317.09	12.29	0.00	304.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/09/16	317.09	12.24	0.00	304.85	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/16/16	317.09	12.02	0.00	305.07	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/23/16	317.09	11.97	0.00	305.12	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/31/16	317.09	12.83	0.00	304.26	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	04/06/16	317.09	12.79	0.00	304.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	04/13/16	317.09	12.07	0.00	305.02	3.3	<0.19	2.1	0.94	6.3	<0.24	***5.5***	<0.055	***9.80***	8260B/8015M
	04/20/16	317.09	12.21	0.00	304.88	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	04/27/16	317.09	12.28	0.00	304.81	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	05/04/16	317.09	12.14	0.00	304.95	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	05/11/16	317.09	12.30	0.00	304.79	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	06/01/16	317.09	12.28	0.00	304.81	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	07/06/16	317.09	12.43	0.00	304.66	2.6	<0.23	1.1	0.52	4.22	<0.34	**1.5 J**	**0.145 J**	**6.79**	8260B/8015M

Table 1

GROUNDWATER GAUGING AND ANALYTICAL DATA SUMMARY

Pilot Travel Center #290
31 Heather Lane
Perryville, Maryland

Well ID	Date	Well Elevation	DTW	Product Thickness	GW Elevation (Corrected)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	BTEX (µg/l)	MTBE (µg/l)	Naphthalene (ug/l)	TPH-GRO (mg/L)	TPH - DRO (mg/l)	Analytical Methods
MW-8	04/23/09	318.22	15.45	1.57	303.95	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	8260B/8015M
	07/20/09	318.22	15.33	2.28	304.60	***52***	92	78	430	652	<5	***310***	***6.9***	***1000***	8260B/8015M
	10/29/09	318.22	15.52	3.25	305.14	***23***	42	64	308	437	<5.0	***230***	***12***	***4900***	8260B/8015M
	01/18/10	318.22	15.48	2.35	304.50	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	8260B/8015M
	07/27/10	318.22	14.5	1.18	304.61	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	8260B/8015M
	10/28/10	318.22	14.42	0.52	304.19	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	8260B/8015M
	01/24/11	318.22	14.68	1.19	304.43	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	8260B/8015M
	04/20/11	318.22	14.14	0.92	304.77	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	8260B/8015M
	07/07/11	318.22	14.25	1.00	304.72	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	8260B/8015M
	10/24/11	318.22	14.44	1.53	304.93	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	8260B/8015M
	04/19/12	318.22	14.42	0.49	304.17	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	8260B/8015M
	07/23/12	318.22	14.19	0.00	304.03	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	10/19/12	318.22	14.65	0.00	303.57	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	01/23/13	318.22	4.24	0.00	313.98	<0.24	<0.23	<0.23	<0.24	ND	<0.16	1.3 J	<0.040	***20.4***	8260B/8015M
	04/26/13	318.22	3.87	0.00	314.35	<0.24	<0.23	<0.23	<0.24	ND	<0.16	<1.1	<0.040	***2.66***	8260B/8015M
	07/19/13	318.22	3.47	0.00	314.75	<0.24	<0.23	<0.23	<0.24	ND	<0.16	<1.1	<0.038	***0.202***	8260B/8015M
	10/18/13	318.22	3.72	0.00	314.50	<0.28	<0.44	<0.21	<0.19	ND	<0.29	<0.25	<0.038	***0.319***	8260B/8015M
	01/17/14	318.22	4.44	0.00	313.78	<0.28	<0.44	<0.21	<0.19	ND	<0.29	<0.25	<0.038	***0.717***	8260B/8015M
	04/25/14	318.22	12.04	0.00	306.18	<0.28	<0.44	1.1	0.62 J	1.72 J	<0.29	***5.6***	<0.038	***15.1***	8260B/8015M
	07/08/14	318.22	8.03	0.00	310.19	<0.21	<0.22	<0.40	4.7	4.7	<0.26	***1.2 J***	<0.038	***3.56***	8260B/8015M
	10/14/14	318.22	12.66	0.00	305.56	0.38 J	<0.22	<0.40	7.3	7.68	<0.26	***1.2 J***	<0.038	***13.0***	8260B/8015M
	01/15/15	318.22	13.19	0.00	305.03	1.6	<0.22	<0.40	1.6	3.2	<0.26	<0.34	<0.038	***6.53***	8260B/8015M
	04/08/15	318.22	12.68	0.00	305.54	2.6	0.34 J	1.8	1.9	6.64	0.40 J	<0.20	<0.038	***3.06***	8260B/8015M
	07/07/15	318.22	12.21	0.00	306.01	0.74	0.27 J	1.6	2.0	4.61	<0.24	***0.97 J***	<0.038	***4.28***	8260B/8015M
	10/05/15	318.22	12.83	0.00	305.39	2.0	<0.16	<0.27	2.0	4.0	<0.24	0.60 J	<0.038	***3.50***	8260B/8015M
	01/06/16	318.22	13.30	0.00	304.92	0.94	<0.16	<0.27	<0.17	0.94	<0.24	***1.4 J***	<0.038	***12.6***	8260B/8015M
	02/08/16	318.22	12.95	0.00	305.27	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	02/17/16	318.22	13.09	0.00	305.13	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	02/24/16	318.22	12.91	0.00	305.31	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/02/16	318.22	12.92	0.00	305.30	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/09/16	318.22	12.85	0.00	305.37	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/16/16	318.22	12.70	0.00	305.52	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/23/16	318.22	12.71	0.00	305.51	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/31/16	318.22	12.64	0.00	305.58	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	04/06/16	318.22	12.83	0.00	305.39	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	04/13/16	318.22	12.87	0.00	305.35	0.47	<0.16	<0.27	<0.17	0.47	0.28	<0.20	<0.055	***2.74***	8260B/8015M
	04/20/16	318.22	13.30	0.00	304.92	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	04/27/16	318.22	13.04	0.00	305.18	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	05/04/16	318.22	12.96	0.00	305.26	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	05/11/16	318.22	13.02	0.00	305.20	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	06/01/16	318.22	13.00	0.00	305.22	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	07/06/16	318.22	13.90	0.00	304.32	1.7	<0.23	<0.20	<0.21	1.7	<0.34	<0.39	<0.10	**3.76**	8260B/8015M
MW-9	10/28/10	317.73	18.96	0.00	298.77	3.3	<1.0	<1.0	<1.0	3.3	1.2	<1.0	<0.05	***3.2***	8260B/8015M
	01/24/11	317.73	DRY	NA	NM	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	8260B/8015M
	04/20/11	317.73	13.84	0.00	303.89	***6.8***	0.38 J	0.94 J	1.3	9.42	0.55 J	NA	<0.011	***9.23***	8260B/8015M
	07/07/11	317.73	13.82	0.00	303.91	***6.9***	<0.15	<0.21	<0.17	6.9	0.31 J	***5.1***	<0.016	***5.42***	8260B/8015M
	10/24/11	317.73	13.71	0.00	304.02	***6.2***	<1.0	0.48 J	0.57 J	7.25	<1.0	NA	<0.016	***7.18***	8260B/8015M
	01/09/12	317.73	13.84	0.00	303.89	4.8	<1.0	0.33 J	<1.0	5.13	0.34 J	NA	<0.016	***9.12***	8260B/8015M
	04/19/12	317.73	14	0.00	303.73	3.4	<1.0	<1.0	<1.0	3.4	0.42 J	NA	0.016	***5.15***	8260B/8015M
	07/23/12	317.73	21.39	0.00	296.34	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	10/19/12	317.73	DRY	NA	NM	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	8260B/8015M
	11/15/12	317.73	DRY	NA	NM	DRY	DRY	DRY	DRY	DRY	DRY	DRY	-	-	8260B/8015M
	01/23/13	317.73	13.04	0.00	304.69	2.6	<0.23	1.2	2.7	6.5	0.38 J	***11.1***	<0.040	***31.0***	8260B/8015M
	04/26/13	317.73	13.34	0.00	304.39	***5.8***	<0.23	1.6	2.4	9.8	0.82 J	***19.2***	<0.040	***6.2***	8260B/8015M
	07/19/13	317.73	13.05	0.00	304.68	<0.24	<0.23	3.4	1.6	5	0.41 J	***13.2***	<0.038	***7.07***	8260B/8015M
	10/18/13	317.73	13.17	0.00	304.56	2.4	<0.44	1	1.1	4.5	<0.29	***7.5***	<0.038	***3.14***	8260B/8015M
	01/17/14	317.73	13.33	0.00	304.40	4.0	<0.44	0.32 J	0.29 J	4.61	0.37 J	***11.4***	***0.214***	***4.59***	8260B/8015M
	04/25/14	317.73	13.55	0.00	304.18	2.3	<0.44	0.39 J	0.76 J	3.45	<0.29	***11***	***0.38***	***168***	8260B/8015M
	07/08/14	317.73	12.85	0.00	304.88	1.5	<0.22	0.44 J	0.91 J	2.85	<0.26	***26.1***	***0.346***	***89.2***	8260B/8015M
	10/14/14	317.73	13.52	0.00	304.21	3.0	<0.22	<0.40	0.23 J	3.23	<0.26	***6.0***	<0.038	***11.8***	8260B/8015M
	01/15/15	317.73	13.56	0.00	304.17	1.8	<0.22	<0.40	<0.20	1.8	0.37 J	***5.6***	<0.038	***5.07***	8260B/8015M
	04/08/15	317.73	13.53	0.00	304.20	2.4	<0.16	<0.27	<0.17	2.4	<0.24	***5.5***	<0.038	***11.1***	8260B/8015M
	07/07/15	317.73	13.28	0.00	304.45	2.1	<0.16	<0.27	<0.17	2.1	0.37 J	***3.7 J***	<0.038	***3.90***	8260B/8015M
	10/05/15	317.73	13.73	0.00	304.00	1.7	<0.16	<0.27	<0.17	1.7	<0.24	***3.2 J***	<0.038	***2.63***	8260B/8015M
	01/06/16	317.73	13.80	0.00	303.93	<0.24	<0.16	<0.27	<0.17	ND	0.78	<0.20	<0.038	***1.20***	8260B/8015M
	02/08/16	317.73	13.71	0.06	304.02	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	02/17/16	317.73	13.80	0.00	303.93	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	02/24/16	317.73	13.74	0.00	303.99	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/02/16	317.73	13.78	0.00	303.95	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/09/16	317.73	13.79	0.00	303.94	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/16/16	317.73	13.71	0.00	304.02	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/23/16	317.73	13.75	0.00	303.98	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/31/16	317.73	13.71	0.00	304.02	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	04/06/16	317.73	13.80	0.00	303.93	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	04/13/16	317.73	13.90	0.00	303.83	1.3	<0.16	<0.27	<0.17	1.3	<0.24	***0.95***	<0.055	***9.23***	8260B/8015M
	04/20/16	317.73	13.70	0.00	304.03	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	04/27/16	317.73	13.74	0.00	303.99	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	05/04/16	317.73	13.73	0.00	304.00	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	05/11/16	317.73	13.74	0.00	303.99	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	06/01/16	317.73	13.63	0.00	304.10	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	07/06/16	317.73	13.73	0.00	304.00	1.2	<0.23	<0.20	<0.21	1.2	<0.34	0.62	<0.10	**8.31**	8260B/8015M

Table 1

GROUNDWATER GAUGING AND ANALYTICAL DATA SUMMARY

Pilot Travel Center #290
31 Heather Lane
Perryville, Maryland

Well ID	Date	Well Elevation	DTW	Product Thickness	GW Elevation (Corrected)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	BTEX (µg/l)	MTBE (µg/l)	Naphthalene (ug/l)	TPH-GRO (mg/L)	TPH - DRO (mg/l)	Analytical Methods
MW-10	10/28/10	317.19	23.07	0.00	294.12	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	01/24/11	317.19	23.84	0.00	293.35	***12.4***	<3.0	14.9	65.1	87.4	8.2 J	NA	***4.61***	NA	8260B/8015M
	04/20/11	317.19	DRY	NA	NM	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	8260B/8015M
	07/07/11	317.19	DRY	NA	NM	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	8260B/8015M
	10/24/11	317.19	DRY	NA	NM	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	8260B/8015M
MW-10R	04/19/12	Unknown	28.01	0.00	Unknown	0.63 J	<1.0	<1.0	<1.0	0.63 J	0.32 J	NA	<0.016	***5.06***	8260B/8015M
	07/23/12	Unknown	28.04	0.00	Unknown	***9.2***	<0.23	<0.23	<0.24	9.2	2.2	NA	***0.238***	***70.4***	8260B/8015M
	10/19/12	Unknown	28.71	0.00	Unknown	-	-	-	-	-	-	-	***0.205***	***3490 a***	8260B/8015M
	11/15/12	Unknown	28.53	0.03	Unknown	NS	NS	NS	NS	NS	NS	NS	-	-	8260B/8015M
	01/23/13	Unknown	27.52	0.00	Unknown	3.9	0.23	0.87 J	2.2	7.2 J	2.2	***20.3***	***0.936***	***766 a***	8260B/8015M
	04/26/13	Unknown	27.36	0.00	Unknown	***5.2***	<0.23	<0.23	1	6.2	1.7	***7.2***	<0.040	***54.9***	8260B/8015M
	07/19/13	Unknown	27.11	0.00	Unknown	***18.5***	<0.23	<0.23	1.3	19.8	1.3	***13.3***	***0.525***	***337***	8260B/8015M
	10/18/13	Unknown	27.28	0.00	Unknown	***12***	<0.44	<0.21	0.80 J	12.8	0.78 J	***7.1***	***4.48***	***116***	8260B/8015M
	01/17/14	Unknown	27.52	0.00	Unknown	***7.9***	<0.44	<0.21	<0.19	7.9	<0.29	***10.5***	***3.24***	***44.3***	8260B/8015M
	04/25/14	Unknown	27.82	0.00	Unknown	***5.7***	<0.44	<0.21	<0.19	5.7	0.50 J	***5.3***	***0.224***	***45.6***	8260B/8015M
	07/08/14	Unknown	27.39	0.00	Unknown	***6.1***	<0.22	<0.40	<0.20	6.1	0.45 J	***5.9***	<0.038	***26.7***	8260B/8015M
	10/14/14	Unknown	27.58	0.00	Unknown	4.7	<0.22	<0.40	<0.20	4.7	<0.26	***7.9***	<0.038	***23.7***	8260B/8015M
	01/15/15	Unknown	27.85	0.00	Unknown	2.7	<0.22	<0.40	<0.20	2.7	1.4	***3.0 J***	***0.220***	***15.4***	8260B/8015M
	04/08/15	Unknown	27.45	0.00	Unknown	3.8	<0.16	<0.27	<0.17	3.8	<0.24	***6.3***	<0.038	***41.7***	8260B/8015M
	07/07/15	Unknown	27.42	0.00	Unknown	3.9	<0.16	<0.27	<0.17	3.9	1.1	***4.0 J***	***0.729***	***14.3***	8260B/8015M
	10/05/15	Unknown	27.63	0.00	Unknown	3.2	0.24 J	<0.27	<0.17	3.44	<0.24	***2.7 J***	***0.452***	***42.0***	8260B/8015M
	01/06/16	Unknown	27.80	0.00	Unknown	2.0	0.72 J	<0.27	<0.17	2.72	0.57 J	***2.1 J***	***0.932***	***60.0***	8260B/8015M
	02/08/16	Unknown	27.67	0.00	Unknown	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	02/17/16	Unknown	27.67	0.00	Unknown	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	02/24/16	Unknown	27.26	0.00	Unknown	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/02/16	Unknown	27.57	0.00	Unknown	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/09/16	Unknown	27.65	0.00	Unknown	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/16/16	Unknown	27.56	0.00	Unknown	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/23/16	Unknown	27.60	0.00	Unknown	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/31/16	Unknown	27.57	0.00	Unknown	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	04/06/16	Unknown	27.62	0.00	Unknown	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	04/13/16	Unknown	27.65	0.00	Unknown	2.7	0.22 J	<0.27	<0.17	2.92	0.33	***0.92***	***1.37***	***86.2***	8260B/8015M
	04/20/16	Unknown	27.65	0.00	Unknown	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	04/27/16	Unknown	27.61	0.00	Unknown	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	05/04/16	Unknown	27.57	0.00	Unknown	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	05/11/16	Unknown	27.60	0.00	Unknown	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	06/01/16	Unknown	27.55	0.00	Unknown	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	07/06/16	Unknown	27.60	0.00	Unknown	2.6	<0.23	<0.20	<0.21	2.6	0.4 J	<0.39	**0.351**	**17.2**	8260B/8015M
TF-1	01/23/13	Unknown	3.02	0.00	Unknown	<0.24	<0.23	1.5	1.9	3.4	<0.16	***6.3***	<0.040	***16.0***	8260B/8015M
	04/26/13	Unknown	2.72	0.00	Unknown	<0.24	0.77 J	1.9	8.2	10.87	<0.16	***5***	***0.216***	***13.3***	8260B/8015M
	07/19/13	Unknown	2.32	0.00	Unknown	<0.24	<0.23	0.84 J	1.6	1.24	<0.16	***4 J***	<0.038	***15.8***	8260B/8015M
	10/18/13	Unknown	2.59	0.00	Unknown	<0.28	<0.44	0.28 J	0.41 J	0.69	<0.29	***1.7 J***	<0.038	***3.9***	8260B/8015M
	01/17/14	Unknown	3.28	0.00	Unknown	0.60 J	5.0	1.3	7.9	14.8	<0.29	***2.3 J***	<0.038	***2.7***	8260B/8015M
	04/25/14	Unknown	5.39	0.00	Unknown	0.55	29.5	52.1	286	368.2	<0.29	***42.3***	***1.89***	***61.4***	8260B/8015M
	07/08/14	Unknown	3.73	0.00	Unknown	5.1	91.3	49.5	366	511.9	<0.26	***61.3***	***6.11***	***248 a***	8260B/8015M
	10/14/14	Unknown	6.11	0.00	Unknown	1.2	14.9	29.7	356	401.8	<0.26	***55.5***	***5.70***	***1370 a***	8260B/8015M
	01/15/15	Unknown	7.04	0.00	Unknown	2.3	4.2	12.8	170	189.3	<0.26	***24.2***	***1.25***	***328 a***	8260B/8015M
	04/08/15	Unknown	5.32	0.00	Unknown	<0.24	0.44 J	2.4	42.9	45.74	<0.24	***10.3***	***0.813***	***44.2***	8260B/8015M
	07/07/15	Unknown	5.00	0.00	Unknown	<0.24	0.39 J	2.3	22.5	25.19	<0.24	***9.1***	***0.455***	***29.5***	8260B/8015M
	10/05/15	Unknown	6.45	0.00	Unknown	1.3	<0.16	0.46 J	6.7	8.46	<0.24	***10.5***	<0.038	***7.75***	8260B/8015M
	01/06/16	Unknown	6.90	0.00	Unknown	1.7	31.6	23.6	126	182.9	<0.24	***11.0***	***1.02***	***24.0***	8260B/8015M
	02/08/16	Unknown	5.84	0.00	Unknown	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	02/17/16	Unknown	5.71	0.00	Unknown	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	02/24/16	Unknown	5.82	0.00	Unknown	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/02/16	Unknown	5.56	0.00	Unknown	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/09/16	Unknown	5.69	0.00	Unknown	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/16/16	Unknown	5.44	0.00	Unknown	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/23/16	Unknown	5.57	0.00	Unknown	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/31/16	Unknown	5.63	0.00	Unknown	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	04/06/16	Unknown	5.79	0.00	Unknown	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	04/13/16	Unknown	5.88	0.00	Unknown	***7.3***	69.6	41.8	177	295.7	<0.024	***14.1***	***1.36***	***196 a***	8260B/8015M
	04/20/16	Unknown	6.21	0.00	Unknown	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	04/27/16	Unknown	6.49	0.00	Unknown	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	05/04/16	Unknown	6.38	0.01	Unknown	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	05/11/16	Unknown	6.32	0.01	Unknown	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	06/01/16	Unknown	6.38	0.03	Unknown	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	07/06/16	Unknown	7.24	0.01	Unknown	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M

Table 1

GROUNDWATER GAUGING AND ANALYTICAL DATA SUMMARY

Pilot Travel Center #290
31 Heather Lane
Perryville, Maryland

Well ID	Date	Well Elevation	DTW	Product Thickness	GW Elevation (Corrected)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	BTEX (µg/l)	MTBE (µg/l)	Naphthalene (ug/l)	TPH-GRO (mg/L)	TPH - DRO (mg/l)	Analytical Methods
TF-2	01/23/13	Unknown	3.08	0.00	Unknown	0.30 J	<0.23	1.1	2.2	3.6	<0.16	***8.1***	<0.040	***49.3***	8260B/8015M
	04/26/13	Unknown	2.77	0.00	Unknown	<0.24	2.9	1.6	5.1	9.6	<0.16	***5.3***	<0.040	***11.5***	8260B/8015M
	07/19/13	Unknown	2.37	0.00	Unknown	<0.24	<0.23	1.5	3.2	4.7	<0.16	***12.7***	<0.038	***3.81***	8260B/8015M
	10/18/13	Unknown	2.65	0.00	Unknown	<0.28	<0.44	0.60 J	0.25 J	0.85	<0.29	***9.2***	<0.038	***2.26***	8260B/8015M
	01/17/14	Unknown	3.35	0.00	Unknown	<0.28	0.98 J	2.0	17	19.98	<0.29	***2.4 J***	<0.038	***5.02***	8260B/8015M
	04/25/14	Unknown	5.45	0.00	Unknown	0.73	1.2	1.7	9.1	12.73	<0.29	***3.0J***	***0.214***	***5.62***	8260B/8015M
	07/08/14	Unknown	3.77	0.00	Unknown	0.53	21.3	32.4	306	360.23	<0.26	***62.0***	***2.09***	***5.14***	8260B/8015M
	10/14/14	Unknown	6.19	0.00	Unknown	0.30 J	1.8	7.1	60.9	70.10	<0.26	***13.9***	***0.642***	***11.7***	8260B/8015M
	01/15/15	Unknown	7.09	0.00	Unknown	1.7	33.5	56.9	223	315.1	<0.26	***31.0***	***6.37***	***1290 a***	8260B/8015M
	04/08/15	Unknown	5.39	0.00	Unknown	0.40 J	6.5	21.3	84.6	112.80	<0.24	***14.1***	***1.15***	***189 a***	8260B/8015M
	07/07/15	Unknown	5.05	0.00	Unknown	2.0	2.5	19.8	63.0	87.3	<0.24	***13.9***	***0.773***	***11.6***	8260B/8015M
	10/05/15	Unknown	6.51	0.00	Unknown	1.4	0.20 J	3.2	7.4	12.2	<0.24	***8.2***	<0.038	***35.9***	8260B/8015M
	01/06/16	Unknown	6.93	0.02	Unknown	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	02/08/16	Unknown	5.61	0.00	Unknown	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	02/17/16	Unknown	5.77	0.00	Unknown	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	02/24/16	Unknown	5.85	0.00	Unknown	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/02/16	Unknown	5.61	0.00	Unknown	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/09/16	Unknown	5.72	0.00	Unknown	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/16/16	Unknown	5.53	0.00	Unknown	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/23/16	Unknown	5.65	0.00	Unknown	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	03/31/16	Unknown	5.71	Sheen	Unknown	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	04/06/16	Unknown	5.85	0.00	Unknown	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	04/13/16	Unknown	5.95	0.00	Unknown	***12.4***	57	26.9	164.0	260.3	<0.24	13.5	***1.03***	***15.9***	8260B/8015M
	04/20/16	Unknown	6.25	0.00	Unknown	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	04/27/16	Unknown	6.53	0.00	Unknown	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	05/04/16	Unknown	6.43	Sheen	Unknown	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	05/11/16	Unknown	6.37	0.00	Unknown	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	06/01/16	Unknown	6.46	0.03	Unknown	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M
	07/06/16	Unknown	7.27	Sheen	Unknown	NS	NS	NS	NS	NS	NS	NS	NS	NS	8260B/8015M

Notes:

TOC = Top of Casing 27.80
LPH = Liquid Phase Hydrocarbons (thickness in feet)
BTEX = Benzene, toluene, ethylbenzene and xylenes
MTBE = methyl tert butyl ether
TPH - GRO = total petroleum hydrocarbons - gasoline range organics
TPH - DRO = total petroleum hydrocarbons - diesel range organics
MDE Groundwater Standards for Type I and Type II Aquifers
Bolded values indicate concentrations above MDE standards.

µg/l = micrograms per liter
mg/l = milligrams per liter
< = Concentration is less than the detection limit
J = Estimated values
NS = Not sampled
Sheen = Product level less than 0.01'

Table 2

DPE OPERATION DATA

Pilot Travel Center #290
31 Heather Lane
Perryville, MD

Date	Operating Status		Operating Hours	Cumulative Operating Hours	Downtime	Inlet Vacuum	MW-2 Vacuum	MW-8 Vacuum	Discharge Stack Temperature	Transfer Pump Total	GW Recovered	Cumulative GW Recovered	Pump Rate	Storage Tank Level	Storage Tank Volume	Process Vapor Concentration	TPH Recovery Vapor	TPH Recovery Cum.	Comments
	Arrival	Departure	(hours)	(hours)	(hours)	(in hg)	(in hg)	(in hg)	(°F)	(gallons)	(gallons)	(gallons)	(gpm)	(inches)	(gallons)	(ppmv)	(lbs)	(lbs)	
5/9/2012		Off	1	0	0	9	9.0	9.0	-	323,610	0	0	-	-	-	**38.0**	0.069	0.1	
5/11/2012	On	On	48	48	0	8	6.0	7.0	130	325,580	1,970	1,970	0.68	12.00	2,146.3	**30.0**	2.601	2.7	
5/16/2012	On	On	120	168	0	9	6.0	8.0	125	329,310	3,730	5,700	0.52	31.68	5,805.6	30.0	6.502	9.2	
5/18/2012	On	On	48	216	0	8	2.5	7.5	125	330,960	1,650	7,350	0.57	38.28	7,094.3	30.0	2.601	11.8	
5/25/2012	Off	On	144	360	24	9	7.0	9.0	100	335,570	4,610	11,960	0.53	58.32	10,884.6	30.0	7.803	19.6	
6/1/2012	Off	On	8	368	160	9	5.0	9.0	145	335,880	310	12,270	0.65	58.32	10,884.6	30.0	0.433	20.0	
6/8/2012	On	On	168	536	0	8.5	3.0	7.5	125	343,060	7,180	19,450	0.71	52.08	9,925.0	30.0	9.103	29.1	Lorco disposed of 6,200 gallons from storage tank.
6/15/2012	Off	On	53	589	115	8.5	4.5	8.5	140	345,330	2,270	21,720	0.71	39.48	7,278.4	**10.0**	0.957	30.1	Lorco disposed of 6,200 gallons from storage tank.
6/22/2012	On	On	168	757	0	9	5.0	11.5	150	352,440	7,110	28,830	0.71	54.60	10,116.5	10.0	3.034	33.1	
6/28/2012	Off	Off	9	766	135	9	6.0	8.0	100	352,840	400	29,230	0.71	57.48	10,692.2	10.0	0.170	33.3	Lorco disposed of 6,489 gallons from storage tank.
7/10/2012	Off	On	0	766	288	10	6.0	13.5	110	352,850	10	29,240		57.48	10,692.2	10.0	0.000	33.3	
7/19/2012	Off	Off	0	766	216		0.0	0.0		352,860	10	29,250		57.48	10,692.2	10.0	0.000	33.3	
7/23/2012	Off	On	0	766	96		0.0	0.0								10.0	0.000	33.3	
7/30/2012	On	On	168	934	0	10	5.0	10.5	124	352,860	0	29,250		57.84	10,692.2	10.0	3.034	36.3	
8/9/2012	Off	On	0	934	240	9.5	6.0	10.0	90	352,860	0	29,250		23.64	3,964.6	10.0	0.000	36.3	Lorco disposed of 3,930 gallons from storage tank.
8/17/2012	On	On	192	1126	0	10	6.0	7.5	125	358,620	5,760	35,010	0.50	29.52	5,253.3	10.0	3.468	39.8	
8/24/2012	On	On	168	1294	0	9.5	5.0	6.0	120	363,150	4,530	39,540	0.45	49.68	8,664.9	10.0	3.034	42.8	Lorco disposed of 6,661 gallons from storage tank.
8/31/2012	On	On	168	1462	0	10	6.0	7.0	125	367,530	4,380	43,920	0.43	31.00	5,253.3	10.0	3.034	45.8	
9/7/2012	On	On	168	1630	0	9.5	6.0	7.5	120	371,750	4,220	48,140	0.42	51.00	8,859.0	10.0	3.034	48.9	
9/14/2012	On	On	168	1798	0	10	7.0	10.0	100	375,710	3,960	52,100	0.39	65.64	11,758.6	10.0	3.034	51.9	Lorco disposed of 6,320 gallons from storage tank.
9/21/2012	On	On	168	1966	0	9.5	8.0	8.0	100	379,940	4,230	56,330	0.42	46.20	8,019.1	10.0	3.034	54.9	Lorco disposed of 6,298 gallons from storage tank.
9/28/2012	On	On	168	2134	0	10	6.0	9.5	110	383,950	4,010	60,340	0.40	29.00	4,885.1	10.0	3.034	58.0	Raised tube in MW-2; was 18' from TOC, now 16' from TOC
10/5/2012	On	On	168	2302	0	8	6.0	8.0	108	387,670	3,720	64,060	0.37	49.20	8,590.3	**50.5**	15.324	73.3	Installed transformer in remediation shed.
10/12/2012	On	On	164	2466	4	7	5.0	5.0	80	391,120	3,450	67,510	0.35	64.44	11,463.0	50.5	14.959	88.3	Lorco disposed of 6,396 gallons from storage tank.
10/18/2012	On	Off	144	2610	0	9.5	6.5	7.5	98	395,640	4,520	72,030	0.52			50.5	13.135	101.4	System shut-down for Groundwater Sampling.
10/19/2012	Off	On	0	2610	28	8	5.0	6.5	94	395,650	10	72,040		45.24	7,828.7	50.5	0.000	101.4	Lorco disposed of 6,298 gallons from storage tank. System Restart.
10/26/2012	On	On	168	2778	0	6	6.5	0.0	100	399,500	3,850	75,890	0.38	22.08	3,964.6	50.5	15.324	116.7	
11/2/2012	Off	On	142	2920	26	8.5	6.0	6.0	85	402,765	3,265	79,155	0.38	34.44	6,173.8	**16.1**	4.129	120.9	System off on arrival. System restarted.
11/8/2012	On	On	144	3064	0	8	6.0	6.0	86	409,104	6,339	85,494	0.73	55.00	9,637.8	16.1	4.187	125.0	Lorco disposed of 6,443 gallons from the storage tank.
11/15/2012	Off	Off	65	3129	103					411,950	2,846	88,340	0.73	26.40	4,332.8	16.1	1.890	126.9	System found off on arrival.
11/21/2012	Off	On	0	3129	144	11	6.5	7.5	70	411,950	0	88,340				16.1	0.000	126.9	System restarted.
11/30/2012	Off	On	2	3131	214	10	6.0	6.5	76	412,040	90	88,430	0.75	27.48	4,676.1	16.1	0.058	127.0	System found off on arrival. Lorco disposed of 4678 gallons from storage tank. System restarted.
12/7/2012	On	On	168	3299	0	10	5.0	6.0	72	415,520	3,480	91,910	0.35	22.20	3,624.5	**4.4**	1.335	128.3	
12/21/2012	On	On	336	3635	0	9	6.0	7.5	80	421,240	5,720	97,630	0.28	52.08	9,054.7	4.4	2.670	131.0	Space heater put in compound for winter.
12/28/2012	On	On	168	3803	0	10.5	5.5	6.0	72	424,220	2,980	100,610	0.30	64.80	11,566.9	4.4	1.335	132.3	Lorco disposed of 6,348 gallons from the storage tank.
1/4/2013	Off	On	35	3838	133	15.5	12.0	14.0	80	430,380	6,160	106,770	2.93	59.16	10,412.1	**16.5**	1.043	133.4	Discharge Line to storage tank was insulated to prevent freezing.
1/11/2013	On	On	168	4006	0	9.5	6.0	5.5	74	439,180	8,800	115,570	0.87	96.24	17,358.2	16.5	5.007	138.4	Lorco disposed of 6,444 gallons from the storage tank.
1/18/2013	On	On	168	4174	0	9.5	6.5	5.0	64	448,130	8,950	124,520	0.89	91.92	16,621.8	**2.2**	0.668	139.0	Lorco disposed of 6,396 gallons from the storage tank.
1/22/2013	Off	Off	72	4246	96					455,000	6,870	131,390	1.59	76.08	13,665.6			139.0	System off on arrival due to icing issues. System will remain off until repairs can be made.
1/23/2013	Off	Off	0	4246	0					455,000	0	131,390		76.08	13,665.6			139.0	Lorco disposed of 6,348 gallons from the storage tank. Raised tube in MW-2; was 16' TOC, now 13.8' TOC.
1/29/2013	Off	On	0	4246	144	15	12.0	0.0	148	455,130	130	131,520		41.76	7,115.6	2.2	0.000	139.0	System repairs: replaced transfer pump; insulated compound; insulated/heat traced discharge line. Restart.
2/1/2013	On	On	72	4318	0	14.5	12.0	0.0	142	456,720	1,590	133,110	0.37	50.52	8,762.4	**2.2**	0.286	139.3	
2/8/2013	On	On	168	4486	0	15	12.0	0.0	150	459,770	3,050	136,160	0.30	64.92	11,566.4	**3.8**	1.153	140.5	
2/15/2013	Off	On	18	4504	150	12.5	10.0	0.0	118	460,110	340	136,500	0.32	65.52	11,662.8	3.8	0.122	140.6	System off on arrival from high level. Lorco disposed of 4,891 gallons from the storage tank.
2/22/2013	Off	On	28	4532	140	9	9.0	0.0	120	460,720	610	137,110	0.36	46.00	7,882.5	3.8	0.193	140.8	System off on arrival from high level.
3/1/2013	Off	On	1	4534	167	11	7.5	9.0	100	460,760	40	137,150	0.51	46.08	7,882.5	**3.4**	0.008	140.8	System off on arrival from high level. Altered drop tube depth in MW-2: 15 ft. Turned MW-8 on.
3/8/2013	On	On	166	4700	0	10	8.0	10.0	130	466,370	5,610	142,760	0.56	70.92	12,713.7	**1.0**	0.300	141.1	
3/15/2013	Off	On	72	4772	96	9	6.0	7.0	120	468,910	2,540	145,300	0.59	81.12	14,596.7	**1.8**	0.235	141.3	System off on arrival from high level. Lorco disposed of 6,396 gallons from the storage tank.
3/22/2013	Off	On	7	4779	161	9.5	7.0	8.5	120	469,180	270	145,570	0.66	49.68	8,567.3	**1.9**	0.023	141.4	System off on arrival from high level. Changed high level float switch in knock-out tank.
3/29/2013	On	On	167	4946	0	10	7.0	11.0	140	475,890	6,710	152,280	0.67	74.04	13,284.8	**2.2**	0.664	142.0	
4/5/2013	On	On	166	5112	0	9	5.5	7.0	112	483,747	7,857	160,137	0.79	101.50	18,370.8	**6.1**	1.827	143.9	Lorco disposed of 6,444 gallons from the storage tank.
4/12/2013	On	On	169	5281	0	8	3.5	4.0	135	493,099	9,352	169,489	0.92	59.40	10,412.1	**2.2**	0.672	144.5	Lorco disposed of XXXX gallons from the storage tank. Lowered vacuum to pull less water.
4/19/2013	Off	Off	108	5389	60					529,612	36,513	206,002	5.63	91.20	16,437.7	2.2	0.429	145.0	System shut off 4/16 because frac tank was full. Lorco disposed of 6,875 gallons from the storage tank.
4/26/2013	Off	Off	2	5391	168	10	7.0	0.0	132	529,770	159	206,160	1.39	32.64	5,459.5	**1.4**	0.005	145.0	Lorco disposed of 6, 266 gallons from the storage tank. Ran pump test to remove product from MW-2.
5/2/2013	Off	Off	1	5392	143	9.5	10.0	0.0	130	529,820	50	206,210	0.76	33.00	5,546.3	**0.1**	0.000	145.0	Ran pump test to remove product from MW-2.
5/9/2013	Off	Off	3	5395	165	9.5	7.0	0.0	139	529,948	128	206,338	0.74	33.00	5,546.3	0.1	0.001	145.0	Ran pump test to remove product from MW-2.
5/17/2013	Off	Off	1	5396	191	13.5	13.5	0.0	160	530,010	62	206,400	0.74	33.60	5,546.3	**3.8**	0.010	145.0	Ran pump test to remove product from MW-2.
5/24/2013	Off	On	1	5397	167	12.5	9.0	0.0	132	530,057	47	206,447	0.78	33.12	5,546.3	3.8	0.007	145.0	Ran pump test to remove product from MW-2. Installed high tank level float in frac tank.
5/31/2013	On	On	165	5562	0	13	12.0	0.0	160	534,350	4,293	210,740	0.43	22.44	3,624.5	3.8	1.132	146.1	Lorco disposed of 6,489 gallons from storage tank.
6/7/2013	On	On	168	5730	0	9.5	12.0	0.0	140	538,420	4,070	214,810	0.40	9.60	1,500.3	**0.3**	0.091	146.2	Lorco disposed of about 5,991 gallons from storage tank. Altered drop tube depth in MW-2: 10.5 ft.
6/14/2013	On	On	169	5899	0	14	11.0	0.0	142	546,800	8,380	223,190	0.83	51.60	8,957.3	**0.5**	0.152	146.4	
6/21/2013	On	On	166	6065	0	11	6.0	0.0	140	548,810	2,010	225,200	0.20	60.60	10,797.9	**0.5**	0.150	146.5	
6/28/2013	On	On	170	6235	0	10	6.0	0.0	153	549,130	320	225,520	0.03	62.40	11,086.7	**0.1**	0.031	146.5	
7/3/2013	On	On	118	6353	0	12	9.5	0.0	150	549,490	360	225,880	0.05	29.40	4,850.6	0.1	0.021	146.6	Lorco disposed of 6,628 gallons from the storage tank.
7/12/2013	On	On	218	6571	0	12	8.0	0.0	150	555,660	6,170	232,050	0.47	54.84	9,637.8	**0.6**	0.237	146.8	
7/18/2013	On	Off	144	6715	0					557,920	2,260	234,310	0.26			0.6	0.156	147.0	System shut down for upcoming GWS event.
7/19/2013	Off	On	0	6715	0	12	9.0	0.0	170	557,920	0	234,310		63.00	11,182.9	**0.7**	0.000	147.0	Lorco disposed of 6,442 gallons from the storage tank.
7/26/2013	On	On	161	6876	0	11	7.0	0.0	142	562,020	4,100	238,410	0.42	44.52	7,589.2	**0.7**	0.204	147.2	
8/2/2013	On	On	170	7046	0	11.5	12.0	0.0	155	569,440	7,420	245,830	0.73	69.36	12,523.1	**4.2**	1.290	148.4	
8/9/2013	On	On	165	7212	0	12	8.5	0.0	150	569,510	70	245,900	0.01	39.48	6,583.2	**0.0**	0.000	148.4	Lorco disposed of 6,295 gallons from the storage tank.
8/16/2013	Off	On	101	7313	67	16	16.0	0.0	160	571,680	2,170	248,070	0.36	47.28	8,078.5	0.0	0.000	148.4	
8/23/2013	On	On	166	7479	0	15	13.0	0.0	150	579,720	8,040	256,110	0.81	83.28	14,964.9	**34.1**	10.212	158.7	Lorco disposed of 6,295 gallons from the storage tank. 0.01 feet of product was detected in the storage tank.
8/30/2013	Off	Off	161	7640	7					587,426	7,706	263,816	0.80	87.00	15,701.3	34.1	9.929	168.6	System down on arrival due to high storage tank level.
9/4/2013	Off	On	0	7640	120	9.5	8.5	0.0	122	587,440	14	263,830	0.57			34.1	0.025	168.6	Lorco disposed of 6,500 gallons from the storage tank. System restarted.
9/6/2013	On	On	47	7688	0	7	6.5	0.0	126	588,950	1,510	265,340	0.53	58.80	10,218.9	34.1	2.919	171.5	
9/13/2013	Off	On	163	7851	5	6	6.0	0.0	120	592,880	3,930	269,270	0.40	74.40	13,284.8	**1.1**	0.324	171.9	Lorco disposed of 6,443 gallons from the storage tank.
9/20/2013	On	On	160	8011	0	7	6.0	0.0	125	596,650	3,770	273,040	0.39	55.80	9,831.7	1.1	0.318	172.2	

Table 2

DPE OPERATION DATA

Pilot Travel Center #290
31 Heather Lane
Perryville, MD

Date	Operating Status		Operating Hours	Cumulative Operating Hours	Downtime	Inlet Vacuum	MW-2 Vacuum	MW-8 Vacuum	Discharge Stack Temperature	Transfer Pump Total	GW Recovered	Cumulative GW Recovered	Pump Rate	Storage Tank Level	Storage Tank Volume	Process Vapor Concentration	TPH Recovery Vapor	TPH Recovery Cum.	Comments
	Arrival	Departure	[hours]	[hours]	[hours]	[in hg]	[in hg]	[in hg]	[°F]	[gallons]	[gallons]	[gallons]	[gallons/min]	[inches]	[gallons]	[ppmv]	(lbs)	(lbs)	
9/26/2013	On	On	154	8165	0	6.5	6.0	0.0	130	599,960	3,310	276,350	0.36	67.80	12,141.3	1.1	0.305	172.5	Lorco disposed of 6,534 gallons from the storage tank.
10/4/2013	On	On	188	8353	0	7.5	6.0	0.0	132	603,699	3,739	280,089	0.33	45.96	7,882.5	**32.3**	10.980	183.5	Lorco disposed of 6,538 gallons from the storage tank.
10/11/2013	Off	Off	80	8433	88					605,120	1,421	281,510	0.30	14.40	2,210.4	32.3	4.679	188.1	System off on arrival due to KO tank high level. System left off for upcoming GWS event.
10/18/2013	Off	On	1	8434	167	7	6.5	0.0	122	605,150	30	281,540	0.71	14.40	2,210.4	**7.0**	0.009	188.1	System restarted after GWS event.
10/25/2013	On	On	164	8597	0	5	5.0	0.0	105	608,010	2,860	284,400	0.29	26.16	4,326.5	**9.1**	2.689	190.8	
11/1/2013	On	On	167	8764	0	8.5	7.0	0.0	132	611,020	3,010	287,410	0.30	37.20	6,238.5	**6.3**	1.896	192.7	
11/8/2013	On	On	168	8932	0	7	6.0	4.0	108	613,810	2,790	290,200	0.28	48.00	8,274.2	6.3	1.913	194.6	Lorco disposed of 6,394 gallons from the storage tank. Re-started MW-8; drop tube length = 6.5'.
11/15/2013	On	On	168	9100	0	7	7.0	5.5	105	616,887	3,077	293,277	0.31	20.40	3,272.2	6.3	1.908	196.6	
11/22/2013	Off	Off	101	9201	67					635,050	18,164	311,440	2.99	72.00	12,904.0	6.3	1.154	197.7	System down on arrival due to KO tank high level alarm. System left off pending storage tank vac out.
11/27/2013	Off	On	0	9202	120	5	4.5	2.5	100	635,150	100	311,540		72.00	12,904.0	6.3	0.005	197.7	Lorco disposed of 6,243 gallons from the storage tank. System restarted.
12/6/2013	Off	On	72	9273	145	2.5	2.5	2.0	100	650,680	15,530	327,070	3.62	54.00	9,443.7	6.3	0.814	198.5	System down on arrival due to high storage tank level. Lorco disposed of 6,360 gallons from the storage tank.
12/13/2013	On	On	167	9440	0	4	4.0	3.5	90	652,260	1,580	328,650	0.16	25.92	4,326.5	**8.1**	2.446	201.0	Lorco disposed of 3,794 gallons from the storage tank. Changed drop tube lengths: MW-2 = 11.5' and MW-8 = 10.5'.
12/20/1013	On	On	168	9609	0	5	4.5	5.5	96	654,820	2,560	331,210	0.25	13.80	2,210.1	8.1	2.462	203.4	
12/27/2013	On	On	169	9778	0	5	5.0	6.0	108	656,730	1,910	333,120	0.19	22.32	3,624.5	8.1	2.473	205.9	
1/2/2014	On	On	145	9922	0	5.5	5.0	6.5	106	658,370	1,640	334,760	0.19	29.16	4,850.6	8.1	2.118	208.0	Changed drop tube lengths: MW-2 = 12.5' and MW-8 = 11.5'.
1/10/2014	On	On	187	10109	0	5	5.0	6.0	100	661,070	2,700	337,460	0.24	39.48	6,583.2	**5.0**	1.690	209.7	
1/16/2014	Off	Off	94	10203	50	6	3.0	3.0	94	668,010	6,940	344,400	1.23	57.84	10,218.9	5.0	0.847	210.6	System down on arrival due to KO tank high level alarm. System left off for upcoming GWS event.
1/17/2014	Off	On	0	10203	24					668,010	0	344,400				5.0	0.000	210.6	System restart after GWS event.
1/24/2014	Off	On	47	10251	121					670,690	2,680	347,080	0.94	37.26	5,372.7	5.0	0.427	211.0	Lorco disposed of liquids from the storage tank on 1/20/2014. System off on arrival due to icing issues. System remains off pending replacement parts.
2/3/2014	On	On	233	10484	0	7	4.0	5.0		30	30	347,110	0.00	37.26	5,372.7	5.0	2.104	213.1	Replaced damaged parts. Changed drop tube lengths: MW-2 = 13' and MW-8 = 13'.
2/7/2014	On	On	92	10576	0	5.5	5.0	5.0		1,260	1,230	348,340	0.22	39.60	6,756.6	**3.0**	0.499	213.6	Placed sump pump in frac tank for circulation. Changed drop tube lengths: MW-2 = 14' and MW-8 = 14'.
2/14/2014	On	On	167	10743	0	6.5	4.0	4.5	80	4,501	3,241	351,581	0.32	55.80	9,792.9	3.0	0.907	214.5	
2/21/2014	On	On	167	10910	0	8	5.0	6.5	80	6,820	2,319	353,900	0.23	67.80	12,141.3	3.0	0.904	215.4	Lorco disposed of 6,293 gallons from the storage tank.
2/28/2014	Off	Off	123	11033	45					8,513	1,838	355,738		45.00	7,686.4	3.0	0.669	216.1	System down on arrival; suspected capacitor failure. System will remain off pending replacement parts. Lorco disposed of 6,238 gallons.
3/7/2014	Off	Off	0	11033	168						0	355,738		45.00	7,686.4			216.1	System will remain off pending replacement parts.
3/14/2014	Off	Off	0	11033	168						0	355,738		45.00	7,686.4			216.1	Temporary system shut-down to monitor product rebound.
3/21/2014	Off	Off	0	11033	168						0	355,738		45.00	7,686.4			216.1	Temporary system shut-down to monitor product rebound.
3/28/2014	Off	Off	0	11033	168						0	355,738		45.00	7,686.4			216.1	Temporary system shut-down to monitor product rebound.
4/4/2014	Off	Off	0	11033	168						0	355,738		45.00	7,686.4			216.1	Temporary system shut-down to monitor product rebound.
4/11/2014	Off	Off	0	11033	168						0	355,738		45.00	7,686.4			216.1	Temporary system shut-down to monitor product rebound.
4/17/2014	Off	Off	0	11033	144						0	355,738		45.00	7,686.4			216.1	Temporary system shut-down to monitor product rebound.
4/25/2014	Off	Off	0	11033	192						0	355,738		45.00	7,686.4			216.1	Temporary system shut-down to monitor product rebound.
5/2/2014	Off	Off	0	11033	168						0	355,738		45.00	7,686.4			216.1	Temporary system shut-down to monitor product rebound.
5/9/2014	Off	Off	0	11033	168						0	355,738		45.00	7,686.4			216.1	Temporary system shut-down to monitor product rebound.
5/16/2014	Off	Off	0	11033	168						0	355,738		45.00	7,686.4			216.1	Temporary system shut-down to monitor product rebound.
5/23/2014	Off	Off	0	11033	168						0	355,738		45.00	7,686.4			216.1	Temporary system shut-down to monitor product rebound.
5/30/2014	Off	On	1	11034	167	16	15.0	0.0	134	8,538	8,538	364,276	0.46	10.92	1,677.7	3.0	0.005	216.1	System restarted.
5/30/2014	On	On	0	11035	0	10	9.5	0.0	124	8,550	12	364,288	0.50	10.92	1,677.7	3.0	0.002	216.1	
6/6/2014	On	On	165	11200	0	11	10.0	0.0	140	10,716	2,166	366,454	0.22	22.68	3,800.3	3.0	0.895	217.0	
6/13/2014	On	On	169	11368	0	11	10.0	12.0	142	12,831	2,115	368,569	0.21	35.64	5,978.9	**31.0**	9.446	226.4	
6/20/2014	Off	On	63	11432	105	10	10.5	8.5	82	13,679	848	369,417	0.22	39.24	6,583.2	31.0	3.544	230.0	System down on arrival due to high knock out level alarm. System restarted.
6/25/2014	Off	Off	12	11444	108					13,863	184	369,601	0.25	41.52	6,934.1	31.0	0.678	230.6	System down on arrival due to high knock out level alarm. System left off to monitor product. Lorco disposed of 6,242 gallons.
7/2/2014	Off	Off	0	11444	168						0	369,601		10.80	1,677.7			230.6	Temporary system shut-down to monitor product rebound.
7/8/2014	Off	Off	0	11444	144						0	369,601		10.80	1,677.7			230.6	Temporary system shut-down to monitor product rebound.
7/16/2014	Off	Off	0	11444	192						0	369,601		10.80	1,677.7			230.6	Temporary system shut-down to monitor product rebound.
7/30/2014	Off	Off	0	11444	336						0	369,601		10.80	1,677.7			230.6	Temporary system shut-down to monitor product rebound.
8/13/2014	Off	Off	0	11444	336						0	369,601		10.80	1,677.7			230.6	Temporary system shut-down to monitor product rebound.
8/27/2014	Off	Off	0	11444	336						0	369,601		10.80	1,677.7			230.6	Temporary system shut-down to monitor product rebound.
9/10/2014	Off	Off	0.3	11444	336					13,871	9	369,610	0.48	11.88	1,855.2	31.0	0.017	230.7	System restarted to remove product from MW-2. System shut off before departure.
9/17/2014	Off	Off	0	11444	168						0	369,610		11.88	1,855.2			230.7	Temporary system shut-down to monitor product rebound.
9/24/2014	Off	Off	0	11444	168						0	369,610		11.88	1,855.2			230.7	Temporary system shut-down to monitor product rebound.
10/1/2014	Off	Off	0	11444	168						0	369,610		11.88	1,855.2			230.7	Temporary system shut-down to monitor product rebound.
10/8/2014	Off	Off	0	11444	168						0	369,610		11.88	1,855.2			230.7	Temporary system shut-down to monitor product rebound.
10/14/2014	Off	Off	0	11444	144						0	369,610		11.88	1,855.2			230.7	Temporary system shut-down to monitor product rebound.
10/29/2014	Off	Off	0.5	11445	360					13,886	15	369,624	0.49	11.88	1,855.2	31.0	0.028	230.7	System restarted to remove product from MW-2. System shut off before departure.
11/5/2014	Off	Off	0	11445	168						0	369,624		11.88	1,855.2			230.7	Temporary system shut-down to monitor product rebound.
11/12/2014	Off	Off	0	11445	168						0	369,624		11.88	1,855.2			230.7	Temporary system shut-down to monitor product rebound.
11/19/2014	Off	Off	0	11445	168						0	369,624		11.88	1,855.2			230.7	Temporary system shut-down to monitor product rebound. Turned on heat trace and heater for winterization.
11/26/2014	Off	Off	0	11445	168						0	369,624		11.88	1,855.2			230.7	Temporary system shut-down to monitor product rebound.
12/3/2014	Off	Off	0	11445	168						0	369,624		11.88	1,855.2			230.7	Temporary system shut-down to monitor product rebound. Response to alarm; sump overfill.
12/17/2014	Off	Off	0	11445	336						0	369,624		11.88	1,855.2			230.7	Temporary system shut-down to monitor product rebound.
12/31/2014	Off	Off	0	11445	336						0	369,624		11.88	1,855.2			230.7	Temporary system shut-down to monitor product rebound.
1/14/2015	Off	Off	0	11445	336						0	369,624		11.88	1,855.2			230.7	Temporary system shut-down to monitor product rebound. Bailed product from MW-2.
1/21/2015	Off	Off	0	11445	168						0	369,624		11.88	1,855.2			230.7	Temporary system shut-down to monitor product rebound.
1/28/2015	Off	Off	0	11445	168						0	369,624		11.88	1,855.2			230.7	Temporary system shut-down to monitor product rebound.
2/4/2015	Off	Off	0	11445	168						0	369,624		11.88	1,855.2			230.7	Temporary system shut-down to monitor product rebound.
2/11/2015	Off	Off	0	11445	168						0	369,624		11.88	1,855.2			230.7	Temporary system shut-down to monitor product rebound.
2/25/2015	Off	Off	0	11445	336						0	369,624		11.88	1,855.2			230.7	Temporary system shut-down to monitor product rebound.
3/12/2015	Off	Off	0	11445	360						0	369,624		11.88	1,855.2			230.7	Temporary system shut-down to monitor product rebound.
3/25/2015	Off	Off	0	11445	312						0	369,624		11.88	1,855.2			230.7	Temporary system shut-down to monitor product rebound.
4/8/2015	Off	Off	0	11445	336						0	369,624		11.88	1,855.2			230.7	Temporary system shut-down to monitor product rebound.
5/6/2015	Off	Off	0	11445	672						0	369,624		11.88	1,855.2			230.7	Temporary system shut-down to monitor product rebound.
6/3/2015	Off	Off	0	11445	672						0	369,624		11.88	1,855.2			230.7	Temporary system shut-down to monitor product rebound.
7/7/2015	Off	Off	0	11445	816						0	369,624		11.88	1,855.2			230.7	Temporary system shut-down to monitor product rebound.
8/12/2015	Off	Off	0	11445	864						0	369,624		11.88	1,855.2			230.7	Temporary system shut-down to monitor product rebound.
9/2/2015	Off	Off	0	11445	504						0	369,624		11.88	1,855.2			230.7	Temporary system shut-down to monitor product rebound.
10/5/2015	Off	Off	0	11445	792						0	369,624		11.88	1,855.2			230.7	Temporary system shut-down to monitor product rebound.
11/11/2015	Off	Off	0	11445	888						0	369,624		11.88	1,855.2			230.7	Temporary system shut-down to monitor product rebound.
1/6/2016	Off	Off	0	11445	2016						0	369,624		11.88	1,855.2			230.7	Temporary system shut-down to monitor product rebound.
4/13/2016	Off	Off	0	11445	168						0	369,624		11.88	1,855.2			230.7	Temporary system shut-down to monitor product rebound.
4/20/2016	Off	Off	0	11445	168						0	369,624		11.88	1,855.2			230.7	Temporary system shut-down to monitor product rebound.
4/27/2016	Off	Off	0	11445	168						0	369,624		11.88	1,855.2			230.7	Temporary system shut-down to monitor product rebound.
5/4/2016	Off	Off	0	11445	168						0	369,624		11.88	1,855.2			230.7	Temporary system shut-down to monitor product rebound.
5/11/2016	Off	Off	0	11445	672						0	369,624		11.88	1,855.2			230.7	Temporary system shut-down to monitor product rebound.
6/1/2016	Off	Off	0	11445	672						0	369,624		11.88	1,855.2			230.7	Temporary system shut-down to monitor product rebound.
7/6/2016	Off	Off	0	11445	672						0	369,624		11.88	1,855.2			230.7	Temporary system shut-down to monitor product rebound.

Table 3

MONITORING WELL GAUGING DATA

Pilot Travel Center #290
31 Heather Lane
Perryville, Maryland

Date	MW-1			MW-2			MW-3			MW-4R			MW-5			MW-6			MW-7			MW-8			MW-9			MW-10			TF-1			TF-2		
	DTW	DTP	Product Thickness	DTW	DTP	Product Thickness	DTW	DTP	Product Thickness	DTW	DTP	Product Thickness	DTW	DTP	Product Thickness	DTW	DTP	Product Thickness	DTW	DTP	Product Thickness	DTW	DTP	Product Thickness	DTW	DTP	Product Thickness	DTW	DTP	Product Thickness	DTW	DTP	Product Thickness	DTW	DTP	Product Thickness
	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)
05/09/12	12.26	--	0.00	17.80	17.16	0.64	11.28	--	0.00	28.02	--	0.00	15.02	--	0.00	17.90	--	0.00	15.94	--	0.00	14.26	13.90	0.36	--	--	--	--	--	--	8.38	8.37	0.01	8.46	--	0.00
05/11/12	12.62	--	0.00	15.17	15.16	0.01	11.46	--	0.00	26.54	--	0.00	16.37	--	0.00	18.03	--	0.00	16.15	--	0.00	16.00	--	0.00	21.29	--	0.00	28.37	--	0.00	8.31	8.29	0.02	8.39	--	0.00
05/16/12	12.60	--	0.00	15.16	15.14	0.02	11.42	--	0.00	26.55	--	0.00	16.33	--	0.00	18.01	--	0.00	16.13	--	0.00	16.00	--	0.00	21.28	--	0.00	28.34	--	0.00	8.30	--	0.00	8.40	--	0.00
06/15/12	12.57	--	0.00	14.75	--	0.00	11.34	--	0.00	28.10	--	0.00	16.35	--	0.00	--	--	--	16.06	--	0.00	15.20	--	0.00	21.30	--	0.00	--	--	--	7.91	--	0.00	8.00	--	0.00
07/23/12	12.65	--	0.00	14.57	--	0.00	11.58	--	0.00	26.47	--	0.00	16.37	--	0.00	18.18	--	0.00	16.26	--	0.00	14.19	--	0.00	21.39	--	0.00	28.04	--	0.00	10.30	--	0.00	10.42	--	0.00
08/09/12	12.73	--	0.00	14.69	14.52	0.17	11.67	--	0.00	26.30	--	0.00	16.35	--	0.00	18.02	--	0.00	16.26	--	0.00	14.21	14.17	0.04	21.65	--	0.00	28.05	--	0.00	10.12	10.09	0.03	10.21	--	0.00
09/07/12	13.40	--	0.00	15.91	15.71	0.20	12.15	--	0.00	26.31	--	0.00	16.75	--	0.00	18.22	--	0.00	16.94	--	0.00	15.21	--	0.00	dry	--	0.00	28.56	28.53	0.03	11.10	11.00	0.10	11.18	11.10	0.08
10/05/12	13.49	--	0.00	16.20	--	0.00	12.45	--	0.00	26.49	--	0.00	16.78	--	0.00	18.13	--	0.00	17.24	--	0.00	15.30	--	0.00	dry	--	0.00	28.76	28.66	0.1	11.00	--	0.00	11.12	--	0.00
11/08/12	13.36	--	0.00	16.33	--	0.00	12.01	--	sheen	26.41	--	0.00	16.78	--	0.00	18.23	--	0.00	16.30	--	0.00	--	--	--	dry	--	0.00	28.62	28.59	0.03	7.42	--	0.00	--	--	--
12/07/12	13.42	--	0.00	15.60	--	0.00	12.12	--	0.00	26.50	--	0.00	16.72	--	0.00	22.85	--	0.00	16.57	--	0.00	15.20	--	0.00	dry	--	0.00	28.47	--	0.00	9.80	--	0.00	9.90	--	0.00
01/04/13	12.59	--	0.00	18.26	--	0.00	11.59	--	0.00	26.13	--	0.00	16.32	--	0.00	18.40	--	0.00	14.00	--	0.00	15.12	--	0.00	14.01	--	0.00	27.45	--	0.00	3.82	--	0.00	--	--	--
01/23/13	11.94	--	0.00	12.38	12.36	0.02	11.14	--	0.00	28.17	--	0.00	16.23	--	0.00	18.24	--	0.00	13.38	--	0.00	4.24	--	0.00	13.04	--	0.00	27.52	--	0.00	3.02	--	0.00	3.08	--	0.00
02/15/13	11.89	--	0.00	14.41	--	0.00	10.75	--	0.00	26.48	--	0.00	16.40	--	0.00	18.03	--	0.00	13.73	--	0.00	13.50	--	0.00	13.97	--	0.00	28.21	--	0.00	5.11	--	0.00	5.17	--	0.00
03/01/13	11.82	--	0.00	13.74	--	sheen	10.66	--	0.00	26.33	--	0.00	16.24	--	0.00	17.95	--	0.00	13.87	--	0.00	13.31	--	0.00	13.79	--	0.00	28.06	--	0.00	5.88	--	0.00	5.92	--	0.00
04/12/13	11.07	--	0.00	14.60	--	0.00	10.89	--	0.00	26.15	--	0.00	16.52	--	0.00	17.43	--	0.00	13.89	--	0.00	14.80	--	0.00	dry	--	0.00	28.45	--	0.00	4.15	--	0.00	4.19	--	0.00
04/19/13	9.86	--	0.00	11.75	11.74	0.01	10.22	--	0.00	25.88	--	0.00	16.09	--	0.00	17.77	--	0.00	11.83	--	0.00	4.12	--	0.00	13.28	--	0.00	27.35	--	0.00	2.92	--	0.00	2.98	--	0.00
05/02/13	9.78	--	0.00	11.97	11.80	0.17	9.65	--	0.00	26.02	--	0.00	16.02	--	0.00	17.60	--	0.00	11.63	--	0.00	3.74	--	0.00	13.60	--	0.00	27.39	--	0.00	2.59	--	0.00	2.64	--	0.00
05/09/13	8.38	--	0.00	12.00	11.65	0.35	9.53	--	0.00	25.62	--	0.00	16.01	--	0.00	17.35	--	0.00	11.24	--	0.00	3.63	--	0.00	13.63	--	0.00	27.30	27.25	0.05	2.48	--	0.00	2.55	--	0.00
05/17/13	8.70	--	0.00	12.28	11.69	0.59	9.52	--	0.00	27.90	--	0.00	17.96	--	0.00	17.27	--	0.00	11.77	--	0.00	3.63	--	0.00	13.86	--	0.00	27.37	27.35	0.02	2.48	--	0.00	2.54	--	0.00
05/24/13	7.19	--	0.00	11.97	11.33	0.64	9.85	--	0.00	25.42	--	0.00	15.92	--	0.00	16.97	--	0.00	10.78	--	0.00	3.57	--	0.00	13.61	--	0.00	27.22	--	0.00	2.42	--	0.00	2.49	--	0.00
05/31/13	7.24	--	0.00	15.22	--	0.00	9.12	--	0.00	25.82	--	0.00	15.90	--	0.00	17.00	--	0.00	10.75	--	0.00	3.57	--	0.00	13.71	--	0.00	27.53	27.48	0.05	2.41	--	0.00	2.46	--	0.00
06/07/13	7.13	--	0.00	9.17	--	0.00	9.10	--	0.00	25.50	--	0.00	15.82	--	0.00	16.9	--	0.00	11.06	--	0.00	3.28	--	0.00	13.47	--	0.00	27.42	--	0.00	2.12	--	0.00	2.20	--	0.00
06/28/13	6.53	--	0.00	4.77	--	0.00	6.84	--	0.00	25.62	--	0.00	15.22	--	0.00	16.58	--	0.00	9.85	--	0.00	3.46	--	0.00	13.20	--	0.00	27.08	--	0.00	2.32	--	0.00	2.37	--	0.00
07/03/13	6.21	--	0.00	5.08	--	0.00	7.67	--	0.00	25.21	--	0.00	15.68	--	0.00	--	--	--	6.23	--	0.00	3.54	--	0.00	12.98	--	0.00	27.04	27.03	0.01	2.35	--	0.00	2.41	--	0.00
07/12/13	--	--	--	8.95	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.45	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--
07/19/13	5.85	--	0.00	4.78	--	0.00	6.11	--	0.00	25.55	--	0.00	15.65	--	0.00	16.59	--	0.00	9.81	--	0.00	3.47	--	0.00	13.05	--	0.00	27.11	--	0.00	2.32	--	0.00	2.37	--	0.00
07/26/13	--	--	--	6.41	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--	9.36	--	0.00	3.49	--	0.00	13.16	--	0.00	27.15	--	0.00	--	--	--	2.40	--	0.00
08/02/13	5.29	--	0.00	10.86	--	0.00	6.98	--	0.00	25.35	--	0.00	15.74	--	0.00	16.19	--	0.00	9.43	--	0.00	3.49	--	0.00	12.91	--	0.00	27.28	27.21	0.07	2.32	--	0.00	2.40	--	0.00
08/09/13	5.52	--	0.00	8.80	--	0.00	6.44	--	0.00	25.55	--	0.00	15.65	--	0.00	15.57	--	0.00	9.70	--	0.00	3.47	--	0.00	13.07	--	0.00	27.10	--	0.00	2.32	--	0.00	2.39	--	0.00
08/16/13	5.39	--	0.00	8.55	--	0.00	6.22	--	0.00	--	--	--	--	--	--	--	--	--	9.62	--	0.00	3.55	--	0.00	--	--	--	27.12	--	0.00	2.35	--	0.00	2.41	--	0.00
08/23/13	--	--	--	11.16	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
09/06/13	5.70	--	0.00	10.91	--	0.00	6.68	--	0.00	25.57	--	0.00	15.74	--	0.00	16.79	--	0.00	9.71	--	0.00	3.65	--	0.00	13.07	--	0.00	27.4	27.38	0.02	2.49	--	0.00	2.55	--	0.00
09/26/13	--	--	--	10.81	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.67	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--
10/11/13	8.05	--	0.00	10.97	--	0.00	7.22	--	0.00	25.67	--	0.00	15.70	--	0.00	16.82	--	0.00	11.08	--	0.00	4.04	--	0.00	13.15	--	0.00	27.21	--	0.00	2.86	--	0.00	2.92	--	0.00
10/18/13	5.94	--	0.00	11.41	11.25	0.16	7.08	--	0.00	25.71	--	0.00	15.73	--	0.00	16.91	--	0.00	10.12	--	0.00	3.72	--	0.00	13.17	--	0.00	27.28	--	0.00	2.59	--	0.00	2.65	--	0.00
10/25/13	--	--	--	10.75	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.71	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--
11/01/13	5.82	--	0.00	10.82	--	0.00	8.81	--	0.00	25.05	--	0.00	15.79	--	0.00	16.95	--	0.00	9.92	--	0.00	4.50	--	0.00	13.41	--	0.00	27.12	--	0.00	3.32	--	0.00	3.39	--	0.00
11/08/13	--	--	--	10.76	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.57	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--
11/15/13	--	--	--	10.80	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.92	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--
11/22/13	--	--	--	11.65	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9.00	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--
11/27/13	--	--	--	11.74	11.72	0.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.15	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--
12/06/13	--	--	--	12.99	12.82	0.17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10.87	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--
12/13/13	8.69	--	0.00	10.79	--	0.00	9.85	--	0.00	25.92	--	0.00	15.91	--	0.00	17.37	--	0.00	11.00	--	0.00	10.52	--	0.00	13.22	--	0.00	27.66	--	0.00	4.53	--	0.00	4.60	--	0.00
12/20/1013	--	--	--	11.92	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11.40	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--
12/27/13	--	--	--	11.92	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11.55	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--
01/02/14	--	--	--	11.92	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11.50	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--
01/10/14	--	--	--	12.84	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11.80	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--
01/16/14	--	--	--	11.75	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.68	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--
02/03/14	--	--	--	11.95	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11.00	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--
02/07/14	9.65	--	0.00	13.16	--	0.00	9.81	--	0.00	26.25	--	0.00	16.04	--	0.00	17.58	--	0.00	11.77	--	0.00	12.21	--	0.00	13.84	--	0.00	19.97	--	0.00	4.58	--	0.00	4.64	--	0.00
02/21/14	--	--	--	13.41	13.40	0.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	13.25	--	0.00	--	--	--	27.95	--	0.00	--	--	--	--	--	--
02/28/14	--	--	--	13.14	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12.48	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--
03/07/14	9.96	--	0.00	13.11	--	0.00	9.93	--	0.00	26.21	--	0.00	15.97	--	0.00	17.52	--	0.00	11.40	--	0.00	12.10	--	0.00	13.62	--	0.00	27.78	--	0.00	5.25	--	0.00	5.31	--	0.00
03/14/14	--	--	--	13.22	13.20	0.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12.24	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--
03/21/14	--	--	--	13.12	13.07	0.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12.26	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--
03/28/14	--	--	--	13.17	13.15	0.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12.28	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--
04/04/14	9.27	--	0.00	13.14	13.09	0.05	10.14	--	0.00	26.18	--	0.00	16.00	--	0.00	17.55	--	0.00	11.54	--	0.00	12.18	--	0.00	13.64	--	0.00	27.78	--	0.00	5.34	--	0.00	5.41	--	0.00
04/11/14	--	--	--	13.02	12.96	0.06	--	--	--	--	--	--	--	--	--	--	--	--	11.55	--	0.00	12.18	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--
04/17/14	--	--	--	12.97	12.85	0.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12.25	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--

Table 3

MONITORING WELL GAUGING DATA

Pilot Travel Center #290
31 Heather Lane
Perryville, Maryland

Date	MW-1			MW-2			MW-3			MW-4R			MW-5			MW-6			MW-7			MW-8			MW-9			MW-10			TF-1			TF-2		
	DTW	DTP	Product Thickness	DTW	DTP	Product Thickness	DTW	DTP	Product Thickness	DTW	DTP	Product Thickness	DTW	DTP	Product Thickness	DTW	DTP	Product Thickness	DTW	DTP	Product Thickness	DTW	DTP	Product Thickness	DTW	DTP	Product Thickness	DTW	DTP	Product Thickness	DTW	DTP	Product Thickness	DTW	DTP	Product Thickness
	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)
04/25/14	8.65	--	0.00	12.87	12.80	0.07	9.84	--	0.00	26.14	--	0.00	16.07	--	0.00	17.38	--	0.00	11.43	--	0.00	12.04	--	0.00	13.55	--	0.00	27.82	--	0.00	5.39	--	0.00	5.45	--	0.00
05/02/14	--	--	--	11.25	11.18	0.07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7.11	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--
05/09/14	7.33	--	0.00	12.47	12.40	0.07	9.36	--	0.00	25.91	--	0.00	16.01	--	0.00	17.22	--	0.00	10.78	--	0.00	11.70	--	0.00	13.1	--	0.00	27.71	--	0.00	4.52	--	0.00	4.58	--	0.00
05/16/14	--	--	--	12.06	11.99	0.07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11.48	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--
05/23/14	--	--	--	12.51	12.42	0.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11.68	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--
05/30/14	--	--	--	11.98	11.88	0.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11.65	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--
05/30/14	--	--	--	14.18	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
06/06/14	--	--	--	14.19	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12.29	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--
06/13/14	7.96	--	0.00	14.14	--	0.00	9.66	--	0.00	25.88	--	0.00	16.00	--	0.00	17.02	--	0.00	10.95	--	0.00	12.05	--	0.00	13.13	--	0.00	27.7	--	0.00	4.54	--	0.00	4.61	--	0.00
06/20/14	--	--	--	13.26	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11.69	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--
06/25/14	--	--	--	12.25	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10.77	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--
07/02/14	--	--	--	12.24	12.20	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10.14	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--
07/08/14	--	--	--	11.56	11.51	0.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8.03	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--
07/16/14	--	--	--	10.61	10.58	0.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.82	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--
07/30/14	--	--	--	10.99	10.97	0.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.88	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--
08/13/14	8.00	--	0.00	12.71	12.69	0.02	8.63	--	0.00	25.59	--	0.00	15.96	--	0.00	17.36	--	0.00	9.62	--	0.00	11.76	--	0.00	12.59	--	0.00	27.26	--	0.00	4.55	--	0.00	4.51	--	0.00
08/27/14	--	--	--	13.12	13.06	0.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12.22	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--
09/10/14	10.75	--	0.00	13.61	13.40	0.21	9.56	--	0.00	26.04	--	0.00	16.02	--	0.00	17.65	--	0.00	12.25	--	0.00	12.50	--	0.00	13.32	--	0.00	27.62	--	0.00	6.96	6.94	0.02	7.00	--	0.00
09/17/14	--	--	--	13.25	13.23	0.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12.43	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--
09/24/14	--	--	--	12.42	12.41	0.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7.76	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--
10/01/14	--	--	--	13.20	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12.43	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--
10/08/14	--	--	--	13.26	13.22	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12.56	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--
10/14/14	10.71	--	0.00	13.12	13.11	0.01	10.14	--	0.00	25.95	--	0.00	16.70	--	0.00	17.78	--	0.00	12.11	--	0.00	12.79	--	0.00	13.52	--	0.00	27.58	--	0.00	6.11	--	0.00	6.19	--	0.00
10/29/14	--	--	--	13.50	13.40	0.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12.64	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--
11/05/14	--	--	--	13.12	13.11	0.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12.79	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--
11/12/14	--	--	--	13.17	13.15	0.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12.83	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--
11/19/14	--	--	--	13.26	13.23	0.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12.98	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--
11/26/14	--	--	--	12.75	12.70	0.05	10.53	--	0.00	19.60	--	0.00	16.13	--	0.00	17.88	--	0.00	13.02	--	0.00	12.97	--	0.00	13.21	--	0.00	27.3	--	0.00	7.23	7.19	0.04	7.36	7.28	0.08
12/03/14	--	--	--	13.04	13.02	0.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12.98	--	0.00	--	--	--	--	--	--	6.77	6.75	0.02	6.86	6.81	0.05
12/17/14	10.80	--	0.00	12.67	12.65	0.02	10.72	--	0.00	26.10	--	0.00	16.19	--	0.00	17.93	--	0.00	12.89	--	0.00	13.15	--	0.00	13.47	--	0.00	25.03	--	0.00	7.25	7.21	0.04	7.31	7.29	0.02
12/31/14	--	--	--	13.66	13.64	0.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	13.25	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--
01/14/15	--	--	--	13.79	13.58	0.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	13.20	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--
01/21/15	--	--	--	14.04	14.01	0.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	13.34	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--
01/28/15	--	--	--	13.98	13.96	0.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	13.26	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--
02/04/15	--	--	--	16.70	16.68	0.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	13.18	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--
02/11/15	11.11	--	0.00	13.97	13.94	0.03	10.72	--	0.00	26.10	--	0.00	16.17	--	0.00	17.97	--	0.00	13.02	--	0.00	13.21	--	0.00	13.26	--	0.00	27.77	--	0.00	6.74	--	0.00	6.83	6.79	0.04
02/25/15	--	--	--	14.02	14.01	0.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	13.21	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--
03/12/15	11.01	--	0.00	13.95	13.94	0.01	10.68	--	0.00	26.39	--	0.00	16.25	--	0.00	17.97	--	0.00	13.05	--	0.00	13.12	--	0.00	13.82	--	0.00	27.09	--	0.00	5.34	--	0.00	5.40	--	0.00
03/25/15	--	--	--	13.69	13.68	0.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12.80	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--
04/08/15	9.51	--	0.00	13.72	--	0.00	10.24	--	0.00	25.82	--	0.00	16.12	--	0.00	17.70	--	0.00	12.06	--	0.00	12.68	--	0.00	13.53	--	0.00	27.45	--	0.00	5.32	--	0.00	5.39	--	0.00
05/06/15	10.21	--	0.00	13.69	13.68	0.01	10.05	--	0.00	26.27	--	0.00	16.15	--	0.00	17.57	--	0.00	12.10	--	0.00	12.56	--	0.00	13.66	--	0.00	27.78	--	0.00	5.64	--	0.00	5.72	--	0.00
06/03/15	10.40	--	0.00	13.68	--	0.00	10.14	--	0.00	25.99	--	0.00	dry	--	0.00	dry	--	0.00	12.10	--	0.00	12.49	--	0.00	13.60	--	0.00	27.34	--	0.00	5.60	--	0.00	5.55	--	0.00
07/07/15	8.46	--	0.00	13.47	13.44	0.03	9.86	--	0.00	25.76	--	0.00	16.12	--	0.00	17.44	--	0.00	11.14	--	0.00	12.21	--	0.00	13.28	--	0.00	27.42	--	0.00	5.00	--	0.00	5.05	--	0.00
08/12/15	10.02	--	0.00	13.48	13.42	0.06	9.65	--	0.00	25.60	--	0.00	16.05	--	0.00	17.23	--	0.00	11.12	--	0.00	12.38	--	0.00	13.05	--	0.00	27.23	--	0.00	6.11	--	0.00	6.19	--	0.00
09/02/15	10.45	--	0.00	13.84	13.77	0.07	10.21	--	0.00	26.02	--	0.00	16.11	--	0.00	17.61	--	0.00	11.98	--	0.00	12.73	--	0.00	13.68	--	0.00	27.90	--	0.00	7.27	7.25	0.02	7.31	--	0.00
10/05/15	16.44	--	0.00	13.65	13.63	0.02	10.72	--	0.00	26.10	--	0.00	16.14	--	0.00	17.81	--	0.00	12.44	--	0.00	12.83	--	0.00	13.73	--	0.00	27.63	--	0.00	6.45	--	0.00	6.51	--	0.00
11/11/15	11.94	--	0.00	13.96	13.91	0.05	11.29	--	0.00	26.10	--	0.00	16.21	--	0.00	17.98	--	0.00	13.02	--	0.00	13.33	--	0.00	13.76	--	0.00	27.55	--	0.00	9.96	9.95	0.01	8.03	8.00	0.03
12/02/15	11.12	--	0.00	13.94	13.9	0.04	12.08	--	0.00	26.23	--	0.00	16.25	--	0.00	18.08	--	0.00	13.14	--	0.00	13.36	--	0.00	13.84	--	0.00	27.69	--	0.00	7.49	--	0.00	7.57	7.56	0.01
01/06/16	11.70	--	0.00	13.67	13.66	0.01	11.2	--	0.00	26.30	--	0.00	16.20	--	0.00	18.10	--	0.00	12.90	--	0.00	13.30	--	0.00	13.80	--	0.00	27.80	--	0.00	6.90	--	0.00	6.93	6.91	0.02
02/08/16	11.01	--	0.00	13.61	--	0.00	NG-I	--	0.00	26.58	--	0.00	16.20	--	0.00	13.34	--	0.00	12.61	--	0.00	13.22	--	0.00	14.00	--	0.00	27.70	--	0.00	6.10	--	0.00	6.15	--	0.00
2/17/2016	11.1	--	0.00	13.82	--	0.00	10.79	--	0.00	26.24	--	0.00	16.18	--	0.00	17.86	--	0.00	12.66	--	0.00	13.09	--	0.00	13.80	--	0.00	27.67	--	0.00	5.71	--	0.00	5.77	--	0.00
2/24/2016	10.41	--	0.00	13.81	--	0.00	10.74	--	0.00	26.00	--	0.00	16.19	--	0.00	15.8	--	0.00	12.4	--	0.00	12.91	--	0.00	13.74	--	0.00	27.26	--	0.00	5.82	--	0.00	5.85	--	0.00
3/2/2016	10.82	--	0.00	13.79	13.76	0.03	10.6	--	0.00	26.15	--	0.00	16.20	--	0.00	17.78	--	0.00	12.29	--	0.00	12.92	--	0.00	13.78	--	0.00	27.57	--	0.00	5.56	--	0.00	5.61	--	0.00
3/9/2016	10.45	--	0.00	13.70	--	0.00	10.32	--	0.00	26.22	--	0.00	16.18	--	0.00	17.73	--	0.00	12.24	--	0.00	12.85	--	0.00	13.79	--	0.00	27.65	--	0.00	5.69	--	0.00	5.72	--	0.00
3/16/2016	10.75	--	0.00	13.64	--	0.00	10.51	--	0.00	26.14	--	0.00	16.10	--	0.00	17.62	--	0.00	12.02	--	0.00	12.7	--	0.00	13.71	--	0.00	27.56	--	0.00	5.44	--	0.00	5.53	--	0.00
3/23/2016	10.45	--	0.00	13.65	--	0.00	10.48	--	0.00	26.19	--	0.00	16.13	--	0.00	17.67	--	0.00	11.97	--	0.00	12.71	--	0.00	13.75	--	0.00	27.60	--	0.00	5.57	--	0.00	5.65	--	0.00
3/31/2016	--	--	0.00	13.63	13.62	0.01	10.49	--	0.00	25.17	--	0.00	16.10	--	0.00	17.64	--	0.00	12.83	--	0.00	12.64	--	0.00	13.71	--	0.00	27.57	--	0.00	5.63	--	0.00	5.71	5.70	0.01
4/6/2016	10.85	--	0.00	13.71	13.70	0.01	10.69	--	0.00	26.24	--	0.00	16.19	--	0.00	17.73	--	0.00	12.79	--	0.00	12.83	--	0.00	13.80	--	0.00	27.62	--	0.00	5.79	--	0.00	5.85	--	0.00
4/13/2016	11.00	--	0.00	13.74	--	0.00	10.75	--	0.00	26.24	--	0.00	16.17	--	0.00	17.7	--	0.00	12.07	--	0.00	12.87	--	0.00	13.90	--	0.00	27.65	--	0.00	5.88	--	0.00	5.95	--	0.00
4/20/2016	11.07	--	0.00	13.79	--	0.00	10.65	--	0.00	26.20	--	0.00	16.16	--	0.00	17.65	--	0.00	12.21	--	0.00	13.30	--	0.00	13.70	--	0.00	27.65	--	0.00	6.21	--	0.00	6.25	--	0.00
4/27/2016	11.14	--	0.00	13.83	--	0.00	10.78	--	0.00	26.21	--	0.00	16.15	--	0.00	17.69	--	0.00	12.28	--	0.00	13.04	--	0.00	13.74	--	0.00	27.61	--	0.00	6.49	--	0.00	6.53	--	0.00

Table 3

MONITORING WELL GAUGING DATA

Pilot Travel Center #290
31 Heather Lane
Perryville, Maryland

Date	MW-1			MW-2			MW-3			MW-4R			MW-5			MW-6			MW-7			MW-8			MW-9			MW-10			TF-1			TF-2		
	DTW	DTP	Product Thickness	DTW	DTP	Product Thickness	DTW	DTP	Product Thickness	DTW	DTP	Product Thickness	DTW	DTP	Product Thickness	DTW	DTP	Product Thickness	DTW	DTP	Product Thickness	DTW	DTP	Product Thickness	DTW	DTP	Product Thickness	DTW	DTP	Product Thickness	DTW	DTP	Product Thickness	DTW	DTP	Product Thickness
	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)
5/4/2016	11.05	--	0.00	13.68	--	0.00	10.75	--	0.00	26.28	--	0.00	16.15	--	0.00	17.67	--	0.00	12.14	--	0.00	12.96	--	0.00	13.73	--	0.00	27.57	--	0.00	6.38	6.37	0.01	6.43	6.43	Sheen
5/11/2016	11.17	--	0.00	13.68	--	sheen	10.84	--	0.00	26.18	--	0.00	16.15	--	0.00	17.72	--	0.00	12.30	--	0.00	13.02	--	0.00	13.74	--	0.00	27.60	--	0.00	6.32	6.31	0.01	6.37	--	0.00
6/1/2016	11.16	--	0.00	13.66	--	0.00	10.72	--	0.00	26.10	--	0.00	16.12	--	0.00	17.67	--	0.00	12.28	--	0.00	13.00	--	0.00	13.63	--	0.00	27.55	--	0.00	6.38	6.35	0.03	6.46	6.43	0.03
7/6/2016	11.41	--	0.00	13.70	--	sheen	10.90	--	0.00	26.13	--	0.00	16.16	--	0.00	17.74	--	0.00	12.43	--	0.00	13.90	--	0.00	13.73	--	0.00	27.60	--	0.00	7.24	7.23	0.01	7.27	7.27	Sheen

Table 4
Geochemical Parameters

Site Name:	Pilot #290					
Address:	Heather Lane, Perryville, MD					
Sovereign Project No.:	PL203.500					
Date/Time:	July 6, 2016					
Weather:	Clear, 90°s					
Sample Date:						
Well Permit #:						
Well#:	**MW-1**	**MW-2**	**MW-3**	**MW-4R**	**MW-5**	**MW-6**
Well Diameter (inches)	4	4	4	4	4	4
Pre-Purge Data:						
PID/FID Reading (mu):	NM	NM	NM	NM	NM	NM
Product Thickness (ft):	0.00	SHEEN	0.00	0.00	0.00	0.00
Total Depth of Well (ft):	19.60	24.10	24.55	32.65	23.68	24.42
Depth to Water (ft):	11.41	13.70	10.90	26.13	16.16	17.74
Volume of water in well (gallons):	5.32	6.76	8.87	4.24	4.89	4.34
pH:	5.94	NS	6.38	5.62	6.58	5.21
Dissolved oxygen (mg/L):	1.65	NS	2.07	2.59	8.52	6.83
Temperature (°C):	22.64	NS	20.45	22.09	20.64	21.37
Turbidity NTU	2.4	NS	55.9	122.0	0.5	12.3
Salinity %	NM	NS	NM	NM	NM	NM
ORP (mV)	NM	NS	NM	NM	NM	NM
Specific conductivity mS/cm	0.307	NS	1.68	0.95	2.03	1.63
Post-Purge Data:						
Purge Start Time:	11:45	NS	11:00	9:45	9:15	9:50
Purge Stop Time:	12:05	NS	11:30	10:00	9:30	10:05
Purge Method:	submersible	NS	submersible	submersible	submersible	submersible
Purge Rate (gpm):	1.0	NS	1.0	1.0	1.0	1.0
Total Volume Purged (gallons):	20.0	NS	30.0	15.0	15.0	14.0
Depth to Water After Purge (ft):	11.66	NS	11.03	26.30	16.32	17.90
pH:	5.76	NS	6.38	5.51	6.57	5.70
Dissolved oxygen (mg/L):	3.21	NS	4.32	2.38	4.32	7.12
Temperature(°C):	21.11	NS	20.29	20.66	19.78	20.84
Turbidity NTU	5.1	NS	16.5	80.9	0.0	10.4
Salinity %	NM	NS	NM	NM	NM	NM
ORP (mV)	NM	NS	NM	NM	NM	NM
Specific conductivity mS/cm	0.257	NS	1.64	0.94	2.10	1.09
Before Sampling Data:						
Depth to Water Before Sampling (ft):	11.66	NS	11.03	26.30	16.32	17.90
Sampling Start Time:	12:10	NS	11:35	10:05	9:40	10:10
After Sampling Data:						
Sampling End Time:	12:10	NS	11:35	10:05	9:40	10:10
pH:	6.06	NS	6.45	5.59	6.63	5.57
Dissolved oxygen (mg/L):	6.97	NS	3.33	3.28	6.41	6.38
Temperature(°C):	20.58	NS	20.28	20.88	21.42	21.69
Turbidity NTU	155.0	NS	4.1	24.8	0.0	0.0
Salinity %	NM	NS	NM	NM	NM	NM
ORP (mV)	NM	NS	NM	NM	NM	NM
Specific conductivity mS/cm	0.86	NS	1.67	0.93	2.10	1.52
Sample Method:	bailer	NS	bailer	bailer	bailer	bailer
Field Observations						
Recharge	Good	NS	Good	Good	Good	Good
Sheen	None	NS	None	None	None	None
Odor	None	NS	None	None	None	None
Turbidity	Clear	NS	Clear	Clear	Clear	Clear
Notes:						
Pump = The purge device used was a Whale pump with dedicated polyethylene tubing.						
Bailer = The sampling device used was a disposable, dedicated, teflon bailer.						
mu - meter units, mS - milli Siemens,						
mg/l - milligrams per liter, gpm - gallons per minute, °C - degrees Celcius, °F - degrees Fahrenheit						

Table 4
Geochemical Parameters

Site Name:	Pilot #290					
Address:	Heather Lane, Perryville, MD					
Sovereign Project No.:	PL203.500					
Date/Time:	July 6, 2016					
Weather:	Clear, 90°s					
Sample Date:						
Well Permit #:						
Well#:	**MW-7**	**MW-8**	**MW-9**	**MW-10R**	**TF-1**	**TF-2**
Well Diameter (inches)	4	4	4	4	4	4
Pre-Purge Data:						
PID/FID Reading (mu):	NM	NM	NM	NM	NM	NM
Product Thickness (ft):	0.00	0.00	0.00	0.00	0.01	SHEEN
Total Depth of Well (ft):	24.15	24.58	24.34	31.22	14.31	15.05
Depth to Water (ft):	12.43	13.90	13.73	27.60	7.24	7.27
Volume of water in well (gallons):	7.62	6.94	6.90	2.35	4.60	5.06
pH:	6.61	6.49	6.70	6.80	NS	NS
Dissolved oxygen (mg/L):	4.76	3.65	4.72	4.01	NS	NS
Temperature (°C):	20.95	20.29	21.90	22.83	NS	NS
Turbidity NTU	112	315.0	60.9	248.0	NS	NS
Salinity %	NM	NM	NM	NM	NS	NS
ORP (mV)	NM	NM	NM	NM	NS	NS
Specific conductivity mS/cm	0.96	0.80	2.04	1.69	NS	NS
Post-Purge Data:						
Purge Start Time:	10:30	11:05	9:10	10:25	NS	NS
Purge Stop Time:	10:55	11:26	9:30	10:35	NS	NS
Purge Method:	submersible	submersible	submersible	submersible	NS	NS
Purge Rate (gpm):	1.0	1.0	1.0	1.0	NS	NS
Total Volume Purged (gallons):	25.0	21.0	21.0	10.0	NS	NS
Depth to Water After Purge (ft):	12.60	14.05	13.80	27.84	NS	NS
pH:	6.60	6.40	6.82	6.79	NS	NS
Dissolved oxygen (mg/L):	5.50	3.51	7.89	9.14	NS	NS
Temperature(°C):	21.97	19.87	20.64	24.70	NS	NS
Turbidity NTU	87.1	43.1	32.8	294.0	NS	NS
Salinity %	NM	NM	NM	NM	NS	NS
ORP (mV)	NM	NM	NM	NM	NS	NS
Specific conductivity mS/cm	1.21	0.82	2.00	1.73	NS	NS
Before Sampling Data:						
Depth to Water Before Sampling (ft):	12.60	14.05	13.80	27.84	NS	NS
Sampling Start Time:	11:00	11:30	9:35	10:40	NS	NS
After Sampling Data:						
Sampling End Time:	11:00	11:30	9:35	10:40	NS	NS
pH:	6.61	6.66	6.81	6.81	NS	NS
Dissolved oxygen (mg/L):	6.06	6.78	1.80	3.75	NS	NS
Temperature(°C):	22.68	20.77	20.88	23.39	NS	NS
Turbidity NTU	36	8.8	14.7	193.0	NS	NS
Salinity %	NM	NM	NM	NM	NS	NS
ORP (mV)	NM	NM	NM	NM	NS	NS
Specific conductivity mS/cm	0.95	0.95	2.01	1.67	NS	NS
Sample Method:	bailer	bailer	bailer	bailer	NS	NS
Field Observations						
Recharge	Good	Good	Good	Good	NS	NS
Sheen	None	None	None	None	NS	NS
Odor	None	None	None	None	NS	NS
Turbidity	Clear	Clear	Clear	Clear	NS	NS
Notes:						
Pump = The purge device used was a Whale pump with dedicated polyethylene tubing.						
Bailer = The sampling device used was a disposable, dedicated, teflon bailer.						
mu - meter units, mS - milli Siemens,						
mg/l - milligrams per liter, gpm - gallons per minute, °C - degrees Celcius, °F - degrees Fahrenheit						

APPENDIX A

Laboratory Analytical Report and Chain-of-Custody Documentation

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

e-Hardcopy 2.0
Automated Report

Technical Report for

Pilot Travel Centers LLC

SCNJCH: #290, Heather Lane, Perryville, MD

PL203.500

SGS Accutest Job Number: JC23588

Sampling Date: 07/06/16

Report to:

Sovereign Consulting
100 Dobbs Lane Suite 212
Cherry Hill, NJ 08034
ewilliams@sovcon.com

ATTN: JR Williams

Total number of pages in report: **260**

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.

Nancy Cole
Laboratory Director

Client Service contact: Marty Vitanza 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TN, TX, VA, WV, DoD ELAP (L-A-B L2248)

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SGS Accutest

Sample Summary

Pilot Travel Centers LLC

Job No: JC23588

SCNJCH: #290, Heather Lane, Perryville, MD
Project No: PL203.500

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JC23588-1	07/06/16	12:10	JK/JW	07/07/16	AQ	Ground Water	MW-1
JC23588-2	07/06/16	11:35	JK/JW	07/07/16	AQ	Ground Water	MW-3
JC23588-3	07/06/16	10:05	JK/JW	07/07/16	AQ	Ground Water	MW-4R
JC23588-4	07/06/16	09:40	JK/JW	07/07/16	AQ	Ground Water	MW-5
JC23588-5	07/06/16	10:10	JK/JW	07/07/16	AQ	Ground Water	MW-6
JC23588-6	07/06/16	11:00	JK/JW	07/07/16	AQ	Ground Water	MW-7
JC23588-7	07/06/16	11:30	JK/JW	07/07/16	AQ	Ground Water	MW-8
JC23588-8	07/06/16	09:35	JK/JW	07/07/16	AQ	Ground Water	MW-9
JC23588-9	07/06/16	10:40	JK/JW	07/07/16	AQ	Ground Water	MW-10R

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Pilot Travel Centers LLC	**Job No**	JC23588
Site:	SCNJCH: #290, Heather Lane, Perryville, MD	**Report Date**	7/19/2016 5:22:33 PM

On 07/07/2016, 9 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS Accutest at a maximum corrected temperature of 3.3 C. Samples were intact and chemically preserved, unless noted below. A SGS Accutest Job Number of JC23588 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section. Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Please refer to certification exceptions summary for additional certification information.

Volatiles by GCMS By Method SW846 8260C

Matrix: AQ **Batch ID:** V4D3063

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC23588-1MS, JC23588-5DUP were used as the QC samples indicated.

Matrix: AQ **Batch ID:** V4D3064

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC23340-4MS, JC23340-7DUP were used as the QC samples indicated.

Volatiles by GC By Method SW846 8015C

Matrix: AQ **Batch ID:** GUV5315

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC23588-1MS, JC23588-2DUP were used as the QC samples indicated.

Extractables by GC By Method SW846 8015C

Matrix: AQ **Batch ID:** OP95461

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC23588-1MS, JC23588-1MSD were used as the QC samples indicated.

SGS Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS Accutest is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS Accutest indicated via signature on the report cover

Summary of Hits

Job Number: JC23588
Account: Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD
Collected: 07/06/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JC23588-1	**MW-1**					
TPH-DRO (C10-C28)		0.873	0.083	0.064	mg/l	SW846 8015C
JC23588-2	**MW-3**					
Benzene		1.7	0.50	0.14	ug/l	SW846 8260C
sec-Butylbenzene		2.5	2.0	1.0	ug/l	SW846 8260C
tert-Butylbenzene		0.53 J	2.0	0.28	ug/l	SW846 8260C
Isopropylbenzene		0.61 J	1.0	0.16	ug/l	SW846 8260C
TPH-DRO (C10-C28)		1.10	0.083	0.064	mg/l	SW846 8015C
JC23588-3	**MW-4R**					
Benzene		2.1	0.50	0.14	ug/l	SW846 8260C
n-Butylbenzene		0.34 J	2.0	0.28	ug/l	SW846 8260C
sec-Butylbenzene		3.1	2.0	1.0	ug/l	SW846 8260C
tert-Butylbenzene		0.53 J	2.0	0.28	ug/l	SW846 8260C
Methyl Tert Butyl Ether		2.9	1.0	0.34	ug/l	SW846 8260C
Naphthalene		2.1 J	5.0	0.39	ug/l	SW846 8260C
Toluene		0.24 J	1.0	0.23	ug/l	SW846 8260C
TPH-DRO (C10-C28)		3.84	0.083	0.064	mg/l	SW846 8015C
JC23588-4	**MW-5**					
sec-Butylbenzene		3.2	2.0	1.0	ug/l	SW846 8260C
tert-Butylbenzene		0.41 J	2.0	0.28	ug/l	SW846 8260C
Isopropylbenzene		0.53 J	1.0	0.16	ug/l	SW846 8260C
Methyl Tert Butyl Ether		1.6	1.0	0.34	ug/l	SW846 8260C
TPH-DRO (C10-C28)		0.859	0.083	0.064	mg/l	SW846 8015C
JC23588-5	**MW-6**					
Acetone		6.5 J	10	3.8	ug/l	SW846 8260C
Benzene		0.21 J	0.50	0.14	ug/l	SW846 8260C
TPH-DRO (C10-C28)		0.373	0.083	0.064	mg/l	SW846 8015C
JC23588-6	**MW-7**					
Benzene		2.6	0.50	0.14	ug/l	SW846 8260C
n-Butylbenzene		1.3 J	2.0	0.28	ug/l	SW846 8260C
sec-Butylbenzene		4.5	2.0	1.0	ug/l	SW846 8260C
tert-Butylbenzene		0.91 J	2.0	0.28	ug/l	SW846 8260C
Ethylbenzene		1.1	1.0	0.20	ug/l	SW846 8260C
Isopropylbenzene		5.1	1.0	0.16	ug/l	SW846 8260C

Summary of Hits

Job Number: JC23588
Account: Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD
Collected: 07/06/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Naphthalene		1.5 J	5.0	0.39	ug/l	SW846 8260C
n-Propylbenzene		3.7	2.0	0.17	ug/l	SW846 8260C
1,2,4-Trimethylbenzene		1.3 J	2.0	0.26	ug/l	SW846 8260C
m,p-Xylene		0.52 J	1.0	0.42	ug/l	SW846 8260C
Xylene (total)		0.52 J	1.0	0.21	ug/l	SW846 8260C
TPH-GRO (C6-C10)		0.145 J	0.20	0.10	mg/l	SW846 8015C
TPH-DRO (C10-C28)		6.79	0.083	0.064	mg/l	SW846 8015C
JC23588-7	**MW-8**					
Benzene		1.7	0.50	0.14	ug/l	SW846 8260C
Isopropylbenzene		0.45 J	1.0	0.16	ug/l	SW846 8260C
n-Propylbenzene		0.22 J	2.0	0.17	ug/l	SW846 8260C
1,2,4-Trimethylbenzene		1.4 J	2.0	0.26	ug/l	SW846 8260C
TPH-DRO (C10-C28)		3.76	0.083	0.064	mg/l	SW846 8015C
JC23588-8	**MW-9**					
Benzene		1.2	0.50	0.14	ug/l	SW846 8260C
n-Butylbenzene		0.93 J	2.0	0.28	ug/l	SW846 8260C
sec-Butylbenzene		2.2	2.0	1.0	ug/l	SW846 8260C
tert-Butylbenzene		0.43 J	2.0	0.28	ug/l	SW846 8260C
Isopropylbenzene		1.2	1.0	0.16	ug/l	SW846 8260C
Naphthalene		0.62 J	5.0	0.39	ug/l	SW846 8260C
n-Propylbenzene		0.45 J	2.0	0.17	ug/l	SW846 8260C
1,2,4-Trimethylbenzene		0.99 J	2.0	0.26	ug/l	SW846 8260C
1,3,5-Trimethylbenzene		0.35 J	2.0	0.32	ug/l	SW846 8260C
TPH-DRO (C10-C28)		8.31	0.083	0.064	mg/l	SW846 8015C
JC23588-9	**MW-10R**					
Benzene		2.6	0.50	0.14	ug/l	SW846 8260C
sec-Butylbenzene		1.0 J	2.0	1.0	ug/l	SW846 8260C
tert-Butylbenzene		0.96 J	2.0	0.28	ug/l	SW846 8260C
Isopropylbenzene		0.19 J	1.0	0.16	ug/l	SW846 8260C
Methyl Tert Butyl Ether		0.40 J	1.0	0.34	ug/l	SW846 8260C
TPH-GRO (C6-C10)		0.351	0.20	0.10	mg/l	SW846 8015C
TPH-DRO (C10-C28)		17.2	0.083	0.064	mg/l	SW846 8015C

Sample Results

Report of Analysis

SGS Accutest

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	JC23588-1	**Date Sampled:**	07/06/16
Matrix:	AQ - Ground Water	**Date Received:**	07/07/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D69915.D	1	07/09/16	XC	n/a	n/a	V4D3063
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.8	ug/l	
71-43-2	Benzene	ND	0.50	0.14	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.46	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.55	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
74-83-9	Bromomethane	ND	2.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	1.9	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.54	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.17	ug/l	
75-00-3	Chloroethane	ND	1.0	0.44	ug/l	
67-66-3	Chloroform	ND	1.0	0.23	ug/l	
74-87-3	Chloromethane	ND	1.0	0.96	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.18	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.29	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.41	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.69	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.23	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.22	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.23	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.19	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.21	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.70	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.39	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.36	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.33	ug/l	

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

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	JC23588-1	**Date Sampled:**	07/06/16
Matrix:	AQ - Ground Water	**Date Received:**	07/07/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	0.28	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.42	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.22	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.16	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.2	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.28	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.35	ug/l	
91-20-3	Naphthalene	ND	5.0	0.39	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.17	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	3.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.23	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.17	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.39	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.23	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.22	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.28	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.58	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.75	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.26	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.32	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.21	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		76-120%

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:	MW-1		
Lab Sample ID:	JC23588-1	**Date Sampled:**	07/06/16
Matrix:	AQ - Ground Water	**Date Received:**	07/07/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	97%		73-122%
2037-26-5	Toluene-D8	103%		84-119%
460-00-4	4-Bromofluorobenzene	106%		78-117%

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

SGS Accutest

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	JC23588-1	**Date Sampled:**	07/06/16
Matrix:	AQ - Ground Water	**Date Received:**	07/07/16
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV132211.D	1	07/08/16	NA	n/a	n/a	GUV5315
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.20	0.10	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	85%		55-130%

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

SGS Accutest

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	JC23588-1	**Date Sampled:**	07/06/16
Matrix:	AQ - Ground Water	**Date Received:**	07/07/16
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7Z18708.D	1	07/13/16	RK	07/12/16	OP95461	G7Z755
Run #2							

	Initial Volume	Final Volume
Run #1	300 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	0.873	0.083	0.064	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	89%		36-144%
16416-32-3	Tetracosane-d50	85%		32-138%
438-22-2	5a-Androstane	87%		31-136%

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

SGS Accutest

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	JC23588-2	**Date Sampled:**	07/06/16
Matrix:	AQ - Ground Water	**Date Received:**	07/07/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D69918.D	1	07/09/16	XC	n/a	n/a	V4D3063
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.8	ug/l	
71-43-2	Benzene	1.7	0.50	0.14	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.46	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.55	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
74-83-9	Bromomethane	ND	2.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	1.9	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	2.5	2.0	1.0	ug/l	
98-06-6	tert-Butylbenzene	0.53	2.0	0.28	ug/l	J
56-23-5	Carbon tetrachloride	ND	1.0	0.54	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.17	ug/l	
75-00-3	Chloroethane	ND	1.0	0.44	ug/l	
67-66-3	Chloroform	ND	1.0	0.23	ug/l	
74-87-3	Chloromethane	ND	1.0	0.96	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.18	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.29	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.41	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.69	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.23	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.22	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.23	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.19	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.21	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.70	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.39	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.36	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.33	ug/l	

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

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	JC23588-2	**Date Sampled:**	07/06/16
Matrix:	AQ - Ground Water	**Date Received:**	07/07/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	0.28	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.42	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.22	ug/l	
98-82-8	Isopropylbenzene	0.61	1.0	0.16	ug/l	J
99-87-6	p-Isopropyltoluene	ND	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.2	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.28	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.35	ug/l	
91-20-3	Naphthalene	ND	5.0	0.39	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.17	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	3.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.23	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.17	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.39	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.23	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.22	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.28	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.58	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.75	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.26	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.32	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.21	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		76-120%

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:	MW-3		
Lab Sample ID:	JC23588-2	**Date Sampled:**	07/06/16
Matrix:	AQ - Ground Water	**Date Received:**	07/07/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	98%		73-122%
2037-26-5	Toluene-D8	103%		84-119%
460-00-4	4-Bromofluorobenzene	107%		78-117%

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

SGS Accutest

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	JC23588-2	**Date Sampled:**	07/06/16
Matrix:	AQ - Ground Water	**Date Received:**	07/07/16
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV132212.D	1	07/08/16	NA	n/a	n/a	GUV5315
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.20	0.10	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	89%		55-130%

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

SGS Accutest

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	JC23588-2	**Date Sampled:**	07/06/16
Matrix:	AQ - Ground Water	**Date Received:**	07/07/16
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7Z18711.D	1	07/13/16	RK	07/12/16	OP95461	G7Z755
Run #2							

	Initial Volume	Final Volume
Run #1	300 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	1.10	0.083	0.064	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	104%		36-144%
16416-32-3	Tetracosane-d50	92%		32-138%
438-22-2	5a-Androstane	93%		31-136%

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

SGS Accutest

Report of Analysis

Client Sample ID:	MW-4R		
Lab Sample ID:	JC23588-3	**Date Sampled:**	07/06/16
Matrix:	AQ - Ground Water	**Date Received:**	07/07/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D69919.D	1	07/09/16	XC	n/a	n/a	V4D3063
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.8	ug/l	
71-43-2	Benzene	2.1	0.50	0.14	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.46	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.55	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
74-83-9	Bromomethane	ND	2.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	1.9	ug/l	
104-51-8	n-Butylbenzene	0.34	2.0	0.28	ug/l	J
135-98-8	sec-Butylbenzene	3.1	2.0	1.0	ug/l	
98-06-6	tert-Butylbenzene	0.53	2.0	0.28	ug/l	J
56-23-5	Carbon tetrachloride	ND	1.0	0.54	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.17	ug/l	
75-00-3	Chloroethane	ND	1.0	0.44	ug/l	
67-66-3	Chloroform	ND	1.0	0.23	ug/l	
74-87-3	Chloromethane	ND	1.0	0.96	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.18	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.29	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.41	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.69	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.23	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.22	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.23	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.19	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.21	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.70	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.39	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.36	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.33	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:	MW-4R		
Lab Sample ID:	JC23588-3	**Date Sampled:**	07/06/16
Matrix:	AQ - Ground Water	**Date Received:**	07/07/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	0.28	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.42	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.22	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.16	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2.9	1.0	0.34	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.2	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.28	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.35	ug/l	
91-20-3	Naphthalene	2.1	5.0	0.39	ug/l	J
103-65-1	n-Propylbenzene	ND	2.0	0.17	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	3.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.23	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.17	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.39	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.23	ug/l	
108-88-3	Toluene	0.24	1.0	0.23	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.22	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.28	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.58	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.75	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.26	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.32	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.21	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		76-120%

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:	MW-4R		
Lab Sample ID:	JC23588-3	**Date Sampled:**	07/06/16
Matrix:	AQ - Ground Water	**Date Received:**	07/07/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	96%		73-122%
2037-26-5	Toluene-D8	104%		84-119%
460-00-4	4-Bromofluorobenzene	107%		78-117%

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

SGS Accutest

Report of Analysis

Client Sample ID:	MW-4R		
Lab Sample ID:	JC23588-3	**Date Sampled:**	07/06/16
Matrix:	AQ - Ground Water	**Date Received:**	07/07/16
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV132225.D	1	07/08/16	NA	n/a	n/a	GUV5315
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.20	0.10	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	88%		55-130%

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

SGS Accutest

Report of Analysis

Client Sample ID:	MW-4R		
Lab Sample ID:	JC23588-3	**Date Sampled:**	07/06/16
Matrix:	AQ - Ground Water	**Date Received:**	07/07/16
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7Z18712.D	1	07/13/16	RK	07/12/16	OP95461	G7Z755
Run #2							

	Initial Volume	Final Volume
Run #1	300 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	3.84	0.083	0.064	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	80%		36-144%
16416-32-3	Tetracosane-d50	76%		32-138%
438-22-2	5a-Androstane	79%		31-136%

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

SGS Accutest

Report of Analysis

Client Sample ID:	MW-5		
Lab Sample ID:	JC23588-4	**Date Sampled:**	07/06/16
Matrix:	AQ - Ground Water	**Date Received:**	07/07/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D69920.D	1	07/09/16	XC	n/a	n/a	V4D3063
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.8	ug/l	
71-43-2	Benzene	ND	0.50	0.14	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.46	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.55	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
74-83-9	Bromomethane	ND	2.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	1.9	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	3.2	2.0	1.0	ug/l	
98-06-6	tert-Butylbenzene	0.41	2.0	0.28	ug/l	J
56-23-5	Carbon tetrachloride	ND	1.0	0.54	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.17	ug/l	
75-00-3	Chloroethane	ND	1.0	0.44	ug/l	
67-66-3	Chloroform	ND	1.0	0.23	ug/l	
74-87-3	Chloromethane	ND	1.0	0.96	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.18	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.29	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.41	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.69	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.23	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.22	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.23	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.19	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.21	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.70	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.39	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.36	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.33	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:	MW-5		
Lab Sample ID:	JC23588-4	**Date Sampled:**	07/06/16
Matrix:	AQ - Ground Water	**Date Received:**	07/07/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	0.28	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.42	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.22	ug/l	
98-82-8	Isopropylbenzene	0.53	1.0	0.16	ug/l	J
99-87-6	p-Isopropyltoluene	ND	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.6	1.0	0.34	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.2	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.28	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.35	ug/l	
91-20-3	Naphthalene	ND	5.0	0.39	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.17	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	3.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.23	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.17	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.39	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.23	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.22	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.28	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.58	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.75	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.26	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.32	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.21	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		76-120%

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:	MW-5		
Lab Sample ID:	JC23588-4	**Date Sampled:**	07/06/16
Matrix:	AQ - Ground Water	**Date Received:**	07/07/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	98%		73-122%
2037-26-5	Toluene-D8	104%		84-119%
460-00-4	4-Bromofluorobenzene	106%		78-117%

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

SGS Accutest

Report of Analysis

Client Sample ID:	MW-5		
Lab Sample ID:	JC23588-4	**Date Sampled:**	07/06/16
Matrix:	AQ - Ground Water	**Date Received:**	07/07/16
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV132226.D	1	07/08/16	NA	n/a	n/a	GUV5315
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.20	0.10	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	87%		55-130%

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

SGS Accutest

Report of Analysis

Client Sample ID:	MW-5		
Lab Sample ID:	JC23588-4	**Date Sampled:**	07/06/16
Matrix:	AQ - Ground Water	**Date Received:**	07/07/16
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7Z18713.D	1	07/13/16	RK	07/12/16	OP95461	G7Z755
Run #2							

	Initial Volume	Final Volume
Run #1	300 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	0.859	0.083	0.064	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	79%		36-144%
16416-32-3	Tetracosane-d50	59%		32-138%
438-22-2	5a-Androstane	60%		31-136%

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

SGS Accutest

Report of Analysis

Client Sample ID:	MW-6		
Lab Sample ID:	JC23588-5	**Date Sampled:**	07/06/16
Matrix:	AQ - Ground Water	**Date Received:**	07/07/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D69916.D	1	07/09/16	XC	n/a	n/a	V4D3063
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	6.5	10	3.8	ug/l	J
71-43-2	Benzene	0.21	0.50	0.14	ug/l	J
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.46	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.55	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
74-83-9	Bromomethane	ND	2.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	1.9	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.54	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.17	ug/l	
75-00-3	Chloroethane	ND	1.0	0.44	ug/l	
67-66-3	Chloroform	ND	1.0	0.23	ug/l	
74-87-3	Chloromethane	ND	1.0	0.96	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.18	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.29	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.41	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.69	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.23	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.22	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.23	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.19	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.21	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.70	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.39	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.36	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.33	ug/l	

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

Report of Analysis

Client Sample ID:	MW-6		
Lab Sample ID:	JC23588-5	**Date Sampled:**	07/06/16
Matrix:	AQ - Ground Water	**Date Received:**	07/07/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	0.28	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.42	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.22	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.16	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.2	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.28	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.35	ug/l	
91-20-3	Naphthalene	ND	5.0	0.39	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.17	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	3.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.23	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.17	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.39	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.23	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.22	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.28	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.58	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.75	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.26	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.32	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.21	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		76-120%

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:	MW-6		
Lab Sample ID:	JC23588-5	**Date Sampled:**	07/06/16
Matrix:	AQ - Ground Water	**Date Received:**	07/07/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	97%		73-122%
2037-26-5	Toluene-D8	102%		84-119%
460-00-4	4-Bromofluorobenzene	106%		78-117%

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

SGS Accutest

Report of Analysis

Client Sample ID:	MW-6		
Lab Sample ID:	JC23588-5	**Date Sampled:**	07/06/16
Matrix:	AQ - Ground Water	**Date Received:**	07/07/16
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV132227.D	1	07/08/16	NA	n/a	n/a	GUV5315
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.20	0.10	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	88%		55-130%

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

SGS Accutest

Report of Analysis

Client Sample ID:	MW-6		
Lab Sample ID:	JC23588-5	**Date Sampled:**	07/06/16
Matrix:	AQ - Ground Water	**Date Received:**	07/07/16
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7Z18716.D	1	07/13/16	RK	07/12/16	OP95461	G7Z755
Run #2							

	Initial Volume	Final Volume
Run #1	300 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	0.373	0.083	0.064	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	84%		36-144%
16416-32-3	Tetracosane-d50	82%		32-138%
438-22-2	5a-Androstane	86%		31-136%

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

SGS Accutest

Report of Analysis

Client Sample ID:	MW-7		
Lab Sample ID:	JC23588-6	**Date Sampled:**	07/06/16
Matrix:	AQ - Ground Water	**Date Received:**	07/07/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D69954.D	1	07/11/16	XC	n/a	n/a	V4D3064
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.8	ug/l	
71-43-2	Benzene	2.6	0.50	0.14	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.46	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.55	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
74-83-9	Bromomethane	ND	2.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	1.9	ug/l	
104-51-8	n-Butylbenzene	1.3	2.0	0.28	ug/l	J
135-98-8	sec-Butylbenzene	4.5	2.0	1.0	ug/l	
98-06-6	tert-Butylbenzene	0.91	2.0	0.28	ug/l	J
56-23-5	Carbon tetrachloride	ND	1.0	0.54	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.17	ug/l	
75-00-3	Chloroethane	ND	1.0	0.44	ug/l	
67-66-3	Chloroform	ND	1.0	0.23	ug/l	
74-87-3	Chloromethane	ND	1.0	0.96	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.18	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.29	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.41	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.69	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.23	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.22	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.23	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.19	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.21	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.70	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.39	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.36	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.33	ug/l	

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

Report of Analysis

Client Sample ID:	MW-7		
Lab Sample ID:	JC23588-6	**Date Sampled:**	07/06/16
Matrix:	AQ - Ground Water	**Date Received:**	07/07/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	0.28	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.42	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	1.1	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.22	ug/l	
98-82-8	Isopropylbenzene	5.1	1.0	0.16	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.2	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.28	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.35	ug/l	
91-20-3	Naphthalene	1.5	5.0	0.39	ug/l	J
103-65-1	n-Propylbenzene	3.7	2.0	0.17	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	3.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.23	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.17	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.39	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.23	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.22	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.28	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.58	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.75	ug/l	
95-63-6	1,2,4-Trimethylbenzene	1.3	2.0	0.26	ug/l	J
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.32	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
	m,p-Xylene	0.52	1.0	0.42	ug/l	J
95-47-6	o-Xylene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	0.52	1.0	0.21	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		76-120%

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

Report of Analysis

Client Sample ID:	MW-7		
Lab Sample ID:	JC23588-6	**Date Sampled:**	07/06/16
Matrix:	AQ - Ground Water	**Date Received:**	07/07/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	92%		73-122%
2037-26-5	Toluene-D8	102%		84-119%
460-00-4	4-Bromofluorobenzene	102%		78-117%

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

SGS Accutest

Report of Analysis

Client Sample ID:	MW-7		
Lab Sample ID:	JC23588-6	**Date Sampled:**	07/06/16
Matrix:	AQ - Ground Water	**Date Received:**	07/07/16
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV132231.D	1	07/08/16	NA	n/a	n/a	GUV5315
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.145	0.20	0.10	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	89%		55-130%

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

SGS Accutest

Report of Analysis

Client Sample ID:	MW-7		
Lab Sample ID:	JC23588-6	**Date Sampled:**	07/06/16
Matrix:	AQ - Ground Water	**Date Received:**	07/07/16
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7Z18717.D	1	07/13/16	RK	07/12/16	OP95461	G7Z755
Run #2							

	Initial Volume	Final Volume
Run #1	300 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	6.79	0.083	0.064	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	103%		36-144%
16416-32-3	Tetracosane-d50	96%		32-138%
438-22-2	5a-Androstane	99%		31-136%

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

SGS Accutest

Report of Analysis

Client Sample ID:	MW-8		
Lab Sample ID:	JC23588-7	**Date Sampled:**	07/06/16
Matrix:	AQ - Ground Water	**Date Received:**	07/07/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D69917.D	1	07/09/16	XC	n/a	n/a	V4D3063
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.8	ug/l	
71-43-2	Benzene	1.7	0.50	0.14	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.46	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.55	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
74-83-9	Bromomethane	ND	2.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	1.9	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.54	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.17	ug/l	
75-00-3	Chloroethane	ND	1.0	0.44	ug/l	
67-66-3	Chloroform	ND	1.0	0.23	ug/l	
74-87-3	Chloromethane	ND	1.0	0.96	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.18	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.29	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.41	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.69	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.23	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.22	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.23	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.19	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.21	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.70	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.39	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.36	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.33	ug/l	

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

Report of Analysis

Client Sample ID:	MW-8		
Lab Sample ID:	JC23588-7	**Date Sampled:**	07/06/16
Matrix:	AQ - Ground Water	**Date Received:**	07/07/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	0.28	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.42	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.22	ug/l	
98-82-8	Isopropylbenzene	0.45	1.0	0.16	ug/l	J
99-87-6	p-Isopropyltoluene	ND	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.2	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.28	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.35	ug/l	
91-20-3	Naphthalene	ND	5.0	0.39	ug/l	
103-65-1	n-Propylbenzene	0.22	2.0	0.17	ug/l	J
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	3.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.23	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.17	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.39	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.23	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.22	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.28	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.58	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.75	ug/l	
95-63-6	1,2,4-Trimethylbenzene	1.4	2.0	0.26	ug/l	J
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.32	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.21	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		76-120%

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:	MW-8		
Lab Sample ID:	JC23588-7	**Date Sampled:**	07/06/16
Matrix:	AQ - Ground Water	**Date Received:**	07/07/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	98%		73-122%
2037-26-5	Toluene-D8	103%		84-119%
460-00-4	4-Bromofluorobenzene	105%		78-117%

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

SGS Accutest

Report of Analysis

Client Sample ID:	MW-8		
Lab Sample ID:	JC23588-7	**Date Sampled:**	07/06/16
Matrix:	AQ - Ground Water	**Date Received:**	07/07/16
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV132228.D	1	07/08/16	NA	n/a	n/a	GUV5315
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.20	0.10	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	89%		55-130%

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

SGS Accutest

Report of Analysis

Client Sample ID:	MW-8		
Lab Sample ID:	JC23588-7	**Date Sampled:**	07/06/16
Matrix:	AQ - Ground Water	**Date Received:**	07/07/16
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7Z18718.D	1	07/13/16	RK	07/12/16	OP95461	G7Z755
Run #2							

	Initial Volume	Final Volume
Run #1	300 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	3.76	0.083	0.064	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	86%		36-144%
16416-32-3	Tetracosane-d50	76%		32-138%
438-22-2	5a-Androstane	77%		31-136%

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

SGS Accutest

Report of Analysis

Client Sample ID:	MW-9		
Lab Sample ID:	JC23588-8	**Date Sampled:**	07/06/16
Matrix:	AQ - Ground Water	**Date Received:**	07/07/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D69955.D	1	07/11/16	XC	n/a	n/a	V4D3064
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.8	ug/l	
71-43-2	Benzene	1.2	0.50	0.14	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.46	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.55	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
74-83-9	Bromomethane	ND	2.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	1.9	ug/l	
104-51-8	n-Butylbenzene	0.93	2.0	0.28	ug/l	J
135-98-8	sec-Butylbenzene	2.2	2.0	1.0	ug/l	
98-06-6	tert-Butylbenzene	0.43	2.0	0.28	ug/l	J
56-23-5	Carbon tetrachloride	ND	1.0	0.54	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.17	ug/l	
75-00-3	Chloroethane	ND	1.0	0.44	ug/l	
67-66-3	Chloroform	ND	1.0	0.23	ug/l	
74-87-3	Chloromethane	ND	1.0	0.96	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.18	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.29	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.41	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.69	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.23	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.22	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.23	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.19	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.21	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.70	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.39	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.36	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.33	ug/l	

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

Report of Analysis

Client Sample ID:	MW-9		
Lab Sample ID:	JC23588-8	**Date Sampled:**	07/06/16
Matrix:	AQ - Ground Water	**Date Received:**	07/07/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	0.28	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.42	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.22	ug/l	
98-82-8	Isopropylbenzene	1.2	1.0	0.16	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.2	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.28	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.35	ug/l	
91-20-3	Naphthalene	0.62	5.0	0.39	ug/l	J
103-65-1	n-Propylbenzene	0.45	2.0	0.17	ug/l	J
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	3.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.23	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.17	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.39	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.23	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.22	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.28	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.58	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.75	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.99	2.0	0.26	ug/l	J
108-67-8	1,3,5-Trimethylbenzene	0.35	2.0	0.32	ug/l	J
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.21	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		76-120%

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:	MW-9		
Lab Sample ID:	JC23588-8	**Date Sampled:**	07/06/16
Matrix:	AQ - Ground Water	**Date Received:**	07/07/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	92%		73-122%
2037-26-5	Toluene-D8	101%		84-119%
460-00-4	4-Bromofluorobenzene	101%		78-117%

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

SGS Accutest

Report of Analysis

Client Sample ID:	MW-9		
Lab Sample ID:	JC23588-8	**Date Sampled:**	07/06/16
Matrix:	AQ - Ground Water	**Date Received:**	07/07/16
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV132229.D	1	07/08/16	NA	n/a	n/a	GUV5315
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.20	0.10	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	90%		55-130%

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

SGS Accutest

Report of Analysis

Client Sample ID:	MW-9		
Lab Sample ID:	JC23588-8	**Date Sampled:**	07/06/16
Matrix:	AQ - Ground Water	**Date Received:**	07/07/16
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7Z18719.D	1	07/13/16	RK	07/12/16	OP95461	G7Z755
Run #2							

	Initial Volume	Final Volume
Run #1	300 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	8.31	0.083	0.064	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	96%		36-144%
16416-32-3	Tetracosane-d50	86%		32-138%
438-22-2	5a-Androstane	90%		31-136%

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

SGS Accutest

Report of Analysis

Client Sample ID:	MW-10R		
Lab Sample ID:	JC23588-9	**Date Sampled:**	07/06/16
Matrix:	AQ - Ground Water	**Date Received:**	07/07/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D69956.D	1	07/11/16	XC	n/a	n/a	V4D3064
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.8	ug/l	
71-43-2	Benzene	2.6	0.50	0.14	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.46	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.55	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
74-83-9	Bromomethane	ND	2.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	1.9	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	1.0	2.0	1.0	ug/l	J
98-06-6	tert-Butylbenzene	0.96	2.0	0.28	ug/l	J
56-23-5	Carbon tetrachloride	ND	1.0	0.54	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.17	ug/l	
75-00-3	Chloroethane	ND	1.0	0.44	ug/l	
67-66-3	Chloroform	ND	1.0	0.23	ug/l	
74-87-3	Chloromethane	ND	1.0	0.96	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.18	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.29	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.41	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.69	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.23	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.22	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.23	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.19	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.21	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.70	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.39	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.36	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.33	ug/l	

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

Report of Analysis

Client Sample ID:	MW-10R		
Lab Sample ID:	JC23588-9	**Date Sampled:**	07/06/16
Matrix:	AQ - Ground Water	**Date Received:**	07/07/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	0.28	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.42	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.22	ug/l	
98-82-8	Isopropylbenzene	0.19	1.0	0.16	ug/l	J
99-87-6	p-Isopropyltoluene	ND	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.40	1.0	0.34	ug/l	J
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.2	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.28	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.35	ug/l	
91-20-3	Naphthalene	ND	5.0	0.39	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.17	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	3.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.23	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.17	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.39	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.23	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.22	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.28	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.58	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.75	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.26	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.32	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.21	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		76-120%

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

Report of Analysis

Client Sample ID:	MW-10R		
Lab Sample ID:	JC23588-9	**Date Sampled:**	07/06/16
Matrix:	AQ - Ground Water	**Date Received:**	07/07/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	91%		73-122%
2037-26-5	Toluene-D8	103%		84-119%
460-00-4	4-Bromofluorobenzene	102%		78-117%

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

SGS Accutest

Report of Analysis

Client Sample ID:	MW-10R		
Lab Sample ID:	JC23588-9	**Date Sampled:**	07/06/16
Matrix:	AQ - Ground Water	**Date Received:**	07/07/16
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV132230.D	1	07/08/16	NA	n/a	n/a	GUV5315
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.351	0.20	0.10	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	90%		55-130%

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

SGS Accutest

Report of Analysis

Client Sample ID:	MW-10R		
Lab Sample ID:	JC23588-9	**Date Sampled:**	07/06/16
Matrix:	AQ - Ground Water	**Date Received:**	07/07/16
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7Z18720.D	1	07/13/16	RK	07/12/16	OP95461	G7Z755
Run #2							

	Initial Volume	Final Volume
Run #1	300 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	17.2	0.083	0.064	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	96%		36-144%
16416-32-3	Tetracosane-d50	71%		32-138%
438-22-2	5a-Androstane	78%		31-136%

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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

Parameter Certification Exceptions

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

The following parameters included in this report are exceptions to NELAC certification.
The certification status of each is indicated below.

Parameter	CAS#	Method	Mat	Certification Status
Methylene bromide	74-95-3	**SW846 8260C**	AQ	Accutest is not certified for this parameter.

Certification exceptions shown are based on the New Jersey DEP certifications. Applicability in other states may vary. Please contact your laboratory representative if additional information is required for a specific regulatory program.

ACCUTEST

GW

CHAIN OF CUSTODY

2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3479

Accutest Job #: JC23588

Client / Reporting Information

Consultants Name: Sovereign Consulting Inc.
Address: 50 West Welsh Pool Rd
City: Exton, PA Zip: 19341
Project Contact: JR Williams
Phone #: (610) 524-8124
email : ewilliams@sovcon.com
Collected by:

Project Information

Project Name: Pilot Perryville, Center SS#290
Street:
City: Perryville State: MD
Project Manager: JR Williams
Project PL203.500
Location ID #:
Client Purchase Order #:

Analytical Information

Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	Preservation HCL	NaOH	HNO3	H2SO4	None	B8015DRO (TPH DRO) *	V8015GRO (TPH GRO)	V8260MDVO (MD VOCs, Oxygenates, Naphthalene)	
MW - 1	7/6	1210	JK/JW	GW	7	X					X	X	X	1
~~MW - 2~~				~~GW~~	~~7~~	~~X~~					~~X~~	~~X~~	~~X~~	
MW - 3	7/6	1135	JK/JW	GW	7	X					X	X	X	2
MW - 4R		1005		GW	7	X					X	X	X	3
MW - 5		940		GW	7	X					X	X	X	4
MW - 6		1010		GW	7	X					X	X	X	5
MW - 7		1100		GW	7	X					X	X	X	6

Turnaround Information

- [x] Std. 15 Day Turnaround
- [ ] 7 Day *EMERGENCY*
- [ ] 4 Day *EMERGENCY*
- [ ] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [ ] 1 Day *EMERGENCY*

Approved By:

Emergency T/A is for FAX or Lablink Data

Data Deliverable Information

- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] Full Deliverables
- [ ] NJ Reduced
- [ ] FULL CLP
- [ ] State Forms
- [ ] Disk Deliverable Format
- [ ] EDD Format

NJ Reduce = Results + QC Summary + Partial Raw data

Accutest Log-in Information

INITIAL ASSESSMENT 2B Dom

LABEL VERIFICATION DG

* 2x 300 mL DRO 7/7/16

E103 1625

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
	7/7/16 1556	1	2	7-7-16	2
Relinquished by Sampler:	7/7/16 1650	3	4		4
Relinquished by Sampler:	Date Time:	5	Seal #	Preserve where applicable	On Ice / Temp. 2.0 2.4 1.8

5.2 5

JC23588: Chain of Custody
Page 1 of 3

CHAIN OF CUSTODY

ACCUTEST

2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3479

Accutest Job #: JC23588

Client / Reporting Information

Consultants Name: Sovereign Consulting Inc.
Address: 50 West Welsh Pool Rd
City: Exton, PA Zip: 19341
Project Contact: JR Williams
Phone #: 856-325-2099
email : ewilliams@sovcon.com
Collected by:

Project Information

Project Name: Pilot Perryville, Center SS#290
Street:
City: Perryville State: MD
Project Manager: JR Williams
Project PL203.500
Location ID #
Client Purchase Order #

Analytical Information

Field ID / Point of Collection	Collection Date	Time	Sampled By	Matrix	# of bottles	Preservation HCL	NaOH	HNO3	H2SO4	None	B8015DRO (TPH DRO)	V8015GRO (TPH GRO)	V8260MDVO (MD VOCs, Oxygenates, Naphthalene)	
MW - 8	7-6	1130	JK/JW	GW	7	X					X	X	X	7
MW - 9	↓	935	JK/JW	GW	7	X					X	X	X	8
MW - 10R		1040	JK/JW	GW	7	X					X	X	X	9
~~TF - 1~~				GW		X					X	X	X	
~~TF - 2~~				GW		X					X	X	X	

Turnaround Information

- ☐ Std. 15 Day Turnaround
- ☐ 7 Day *EMERGENCY*
- ☐ 4 Day *EMERGENCY*
- ☐ 3 Day *EMERGENCY*
- ☐ 2 Day *EMERGENCY*
- ☐ 1 Day *EMERGENCY*

Approved By:

Emergency T/A is for FAX or Lablink Data

Data Deliverable Information

- ☐ Commercial "A"
- ☐ Commercial "B"
- ☐ Full Deliverables
- ☐ NJ Reduced
- ☐ FULL CLP
- ☐ State Forms
- ☐ Disk Deliverable Format_____
- ☐ EDD Format_____

NJ Reduce = Results + QC Summary + Partial Raw data

Accutest Log-in Information

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
	7/7/16 1550	1	2	7-7-16 1450	2
Relinquished by Sampler:	7/7/16 1650	3	4		4
Relinquished by Sampler:	Date Time:	5	Seal #	Preserve where applicable ☐	On Ice ☐ Temp. 20, 2, 4, 1-P

☐ ☐

Page 1

5.2 5

JC23588: Chain of Custody
Page 2 of 3

SGS Accutest Sample Receipt Summary

Job Number: JC23588 **Client:** _____ **Project:** _____

Date / Time Received: 7/7/2016 4:50:00 PM **Delivery Method:** _____ **Airbill #'s:** _____

Cooler Temps (Raw Measured) °C: Cooler 1: (2.0); Cooler 2: (2.4);

Cooler Temps (Corrected) °C: Cooler 1: (2.9); Cooler 2: (3.3);

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:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	2		

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

Internal Sample Tracking Chronicle

Pilot Travel Centers LLC

Job No: JC23588

SCNJCH: #290, Heather Lane, Perryville, MD
Project No: PL203.500

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JC23588-1 MW-1	Collected: 06-JUL-16 12:10 By: JK/JW		Received: 07-JUL-16 By: AS			
JC23588-1	SW846 8015C	08-JUL-16 10:29	NA			V8015GRO
JC23588-1	SW846 8260C	09-JUL-16 13:18	XC			V8260MDVO
JC23588-1	SW846 8015C	13-JUL-16 16:27	RK	12-JUL-16	MP	B8015DRO
JC23588-2 MW-3	Collected: 06-JUL-16 11:35 By: JK/JW		Received: 07-JUL-16 By: AS			
JC23588-2	SW846 8015C	08-JUL-16 11:05	NA			V8015GRO
JC23588-2	SW846 8260C	09-JUL-16 14:42	XC			V8260MDVO
JC23588-2	SW846 8015C	13-JUL-16 18:08	RK	12-JUL-16	MP	B8015DRO
JC23588-3 MW-4R	Collected: 06-JUL-16 10:05 By: JK/JW		Received: 07-JUL-16 By: AS			
JC23588-3	SW846 8015C	08-JUL-16 18:12	NA			V8015GRO
JC23588-3	SW846 8260C	09-JUL-16 15:10	XC			V8260MDVO
JC23588-3	SW846 8015C	13-JUL-16 18:41	RK	12-JUL-16	MP	B8015DRO
JC23588-4 MW-5	Collected: 06-JUL-16 09:40 By: JK/JW		Received: 07-JUL-16 By: AS			
JC23588-4	SW846 8015C	08-JUL-16 18:41	NA			V8015GRO
JC23588-4	SW846 8260C	09-JUL-16 15:38	XC			V8260MDVO
JC23588-4	SW846 8015C	13-JUL-16 19:15	RK	12-JUL-16	MP	B8015DRO
JC23588-5 MW-6	Collected: 06-JUL-16 10:10 By: JK/JW		Received: 07-JUL-16 By: AS			
JC23588-5	SW846 8015C	08-JUL-16 19:17	NA			V8015GRO
JC23588-5	SW846 8260C	09-JUL-16 13:46	XC			V8260MDVO
JC23588-5	SW846 8015C	13-JUL-16 20:56	RK	12-JUL-16	MP	B8015DRO
JC23588-6 MW-7	Collected: 06-JUL-16 11:00 By: JK/JW		Received: 07-JUL-16 By: AS			
JC23588-6	SW846 8015C	08-JUL-16 21:20	NA			V8015GRO
JC23588-6	SW846 8260C	11-JUL-16 20:37	XC			V8260MDVO

Internal Sample Tracking Chronicle

Pilot Travel Centers LLC

Job No: JC23588

SCNJCH: #290, Heather Lane, Perryville, MD
Project No: PL203.500

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JC23588-6	SW846 8015C	13-JUL-16 21:29	RK	12-JUL-16	MP	B8015DRO
JC23588-7 MW-8	Collected: 06-JUL-16 11:30 By: JK/JW		Received: 07-JUL-16 By: AS			
JC23588-7	SW846 8015C	08-JUL-16 19:46	NA			V8015GRO
JC23588-7	SW846 8260C	09-JUL-16 14:14	XC			V8260MDVO
JC23588-7	SW846 8015C	13-JUL-16 22:03	RK	12-JUL-16	MP	B8015DRO
JC23588-8 MW-9	Collected: 06-JUL-16 09:35 By: JK/JW		Received: 07-JUL-16 By: AS			
JC23588-8	SW846 8015C	08-JUL-16 20:15	NA			V8015GRO
JC23588-8	SW846 8260C	11-JUL-16 21:05	XC			V8260MDVO
JC23588-8	SW846 8015C	13-JUL-16 22:37	RK	12-JUL-16	MP	B8015DRO
JC23588-9 MW-10R	Collected: 06-JUL-16 10:40 By: JK/JW		Received: 07-JUL-16 By: AS			
JC23588-9	SW846 8015C	08-JUL-16 20:51	NA			V8015GRO
JC23588-9	SW846 8260C	11-JUL-16 21:34	XC			V8260MDVO
JC23588-9	SW846 8015C	13-JUL-16 23:10	RK	12-JUL-16	MP	B8015DRO

SGS Accutest Internal Chain of Custody

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD
Received: 07/07/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC23588-1.1	Secured Storage	Eric Chiles	07/12/16 06:10	Retrieve from Storage
JC23588-1.1	Eric Chiles		07/13/16 06:34	Depleted
JC23588-1.1.1	Eric Chiles	Organics Prep	07/12/16 06:59	Extract from JC23588-1.1
JC23588-1.1.1	Organics Prep	Nicholas Goydish	07/12/16 13:01	Extract from JC23588-1.1
JC23588-1.1.1	Nicholas Goydish	Extract Storage	07/12/16 13:01	Return to Storage
JC23588-1.1.1	Extract Storage	Thomas Lally	07/13/16 15:11	Retrieve from Storage
JC23588-1.1.1	Thomas Lally	GC7Z	07/13/16 15:11	Load on Instrument
JC23588-1.2	Secured Storage	Eric Chiles	07/12/16 06:10	Retrieve from Storage
JC23588-1.2	Eric Chiles		07/13/16 06:34	Depleted
JC23588-1.2.1	Eric Chiles	Organics Prep	07/12/16 06:59	Extract from JC23588-1.2
JC23588-1.2.1	Organics Prep	Nicholas Goydish	07/12/16 13:01	Extract from JC23588-1.2
JC23588-1.2.1	Nicholas Goydish	Extract Storage	07/12/16 13:01	Return to Storage
JC23588-1.2.1	Extract Storage	Thomas Lally	07/13/16 15:11	Retrieve from Storage
JC23588-1.2.1	Thomas Lally	GC7Z	07/13/16 15:11	Load on Instrument
JC23588-1.3	Secured Storage	Ximena Collado	07/08/16 11:50	Retrieve from Storage
JC23588-1.3	Ximena Collado	GCMS4D	07/08/16 11:50	Load on Instrument
JC23588-1.3	GCMS4D	Ximena Collado	07/11/16 11:17	Unload from Instrument
JC23588-1.3	Ximena Collado	Secured Storage	07/11/16 11:17	Return to Storage
JC23588-1.4	Secured Storage	Vianna Chau	07/09/16 14:22	Retrieve from Storage
JC23588-1.4	Vianna Chau	GCMS4D	07/09/16 14:22	Load on Instrument
JC23588-1.4	GCMS4D	Ximena Collado	07/11/16 11:17	Unload from Instrument
JC23588-1.4	Ximena Collado	Secured Storage	07/11/16 11:17	Return to Storage
JC23588-1.5	Secured Storage	Nathalie Arbieto	07/08/16 10:35	Retrieve from Storage
JC23588-1.5	Nathalie Arbieto	GCUV	07/08/16 11:05	Load on Instrument
JC23588-1.5	GCUV	Jay Chao	07/12/16 10:50	Unload from Instrument
JC23588-1.5	Jay Chao	Secured Storage	07/12/16 10:50	Return to Storage
JC23588-1.6	Secured Storage	Jay Chao	07/08/16 10:14	Retrieve from Storage
JC23588-1.6	Jay Chao	GCUV	07/08/16 10:14	Load on Instrument
JC23588-1.6	GCUV	Jay Chao	07/12/16 10:50	Unload from Instrument
JC23588-1.6	Jay Chao	Secured Storage	07/12/16 10:50	Return to Storage
JC23588-2.2	Secured Storage	Eric Chiles	07/12/16 06:10	Retrieve from Storage
JC23588-2.2	Eric Chiles		07/13/16 06:34	Depleted
JC23588-2.2.1	Eric Chiles	Organics Prep	07/12/16 06:59	Extract from JC23588-2.2
JC23588-2.2.1	Organics Prep	Nicholas Goydish	07/12/16 13:01	Extract from JC23588-2.2
JC23588-2.2.1	Nicholas Goydish	Extract Storage	07/12/16 13:01	Return to Storage

SGS Accutest Internal Chain of Custody

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD
Received: 07/07/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC23588-2.2.1	Extract Storage	Thomas Lally	07/13/16 15:11	Retrieve from Storage
JC23588-2.2.1	Thomas Lally	GC7Z	07/13/16 15:11	Load on Instrument
JC23588-2.4	Secured Storage	Ximena Collado	07/08/16 11:50	Retrieve from Storage
JC23588-2.4	Ximena Collado	GCMS4D	07/08/16 11:50	Load on Instrument
JC23588-2.4	GCMS4D	Ximena Collado	07/11/16 11:17	Unload from Instrument
JC23588-2.4	Ximena Collado	Secured Storage	07/11/16 11:17	Return to Storage
JC23588-2.5	Secured Storage	Nathalie Arbieto	07/08/16 10:35	Retrieve from Storage
JC23588-2.5	Nathalie Arbieto	GCUV	07/08/16 11:05	Load on Instrument
JC23588-2.5	GCUV	Jay Chao	07/12/16 10:50	Unload from Instrument
JC23588-2.5	Jay Chao	Secured Storage	07/12/16 10:50	Return to Storage
JC23588-2.6	Secured Storage	Jay Chao	07/08/16 10:14	Retrieve from Storage
JC23588-2.6	Jay Chao	GCUV	07/08/16 10:14	Load on Instrument
JC23588-2.6	GCUV	Jay Chao	07/12/16 10:50	Unload from Instrument
JC23588-2.6	Jay Chao	Secured Storage	07/12/16 10:50	Return to Storage
JC23588-3.1	Secured Storage	Eric Chiles	07/12/16 06:10	Retrieve from Storage
JC23588-3.1	Eric Chiles		07/13/16 06:34	Depleted
JC23588-3.1.1	Eric Chiles	Organics Prep	07/12/16 06:59	Extract from JC23588-3.1
JC23588-3.1.1	Organics Prep	Nicholas Goydish	07/12/16 13:01	Extract from JC23588-3.1
JC23588-3.1.1	Nicholas Goydish	Extract Storage	07/12/16 13:01	Return to Storage
JC23588-3.1.1	Extract Storage	Thomas Lally	07/13/16 15:11	Retrieve from Storage
JC23588-3.1.1	Thomas Lally	GC7Z	07/13/16 15:11	Load on Instrument
JC23588-3.4	Secured Storage	Ximena Collado	07/08/16 11:50	Retrieve from Storage
JC23588-3.4	Ximena Collado	GCMS4D	07/08/16 11:50	Load on Instrument
JC23588-3.4	GCMS4D	Ximena Collado	07/11/16 11:17	Unload from Instrument
JC23588-3.4	Ximena Collado	Secured Storage	07/11/16 11:17	Return to Storage
JC23588-3.6	Secured Storage	Nathalie Arbieto	07/08/16 10:35	Retrieve from Storage
JC23588-3.6	Nathalie Arbieto	GCUV	07/08/16 11:49	Load on Instrument
JC23588-3.6	GCUV	Jay Chao	07/12/16 10:50	Unload from Instrument
JC23588-3.6	Jay Chao	Secured Storage	07/12/16 10:50	Return to Storage
JC23588-4.2	Secured Storage	Eric Chiles	07/12/16 06:10	Retrieve from Storage
JC23588-4.2	Eric Chiles		07/13/16 06:34	Depleted
JC23588-4.2.1	Eric Chiles	Organics Prep	07/12/16 06:59	Extract from JC23588-4.2
JC23588-4.2.1	Organics Prep	Nicholas Goydish	07/12/16 13:01	Extract from JC23588-4.2
JC23588-4.2.1	Nicholas Goydish	Extract Storage	07/12/16 13:01	Return to Storage
JC23588-4.2.1	Extract Storage	Thomas Lally	07/13/16 15:11	Retrieve from Storage

SGS Accutest Internal Chain of Custody

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD
Received: 07/07/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC23588-4.2.1	Thomas Lally	GC7Z	07/13/16 15:11	Load on Instrument
JC23588-4.4	Secured Storage	Ximena Collado	07/08/16 11:50	Retrieve from Storage
JC23588-4.4	Ximena Collado	GCMS4D	07/08/16 11:50	Load on Instrument
JC23588-4.4	GCMS4D	Ximena Collado	07/11/16 11:17	Unload from Instrument
JC23588-4.4	Ximena Collado	Secured Storage	07/11/16 11:17	Return to Storage
JC23588-4.6	Secured Storage	Nathalie Arbieto	07/08/16 10:35	Retrieve from Storage
JC23588-4.6	Nathalie Arbieto	GCUV	07/08/16 11:49	Load on Instrument
JC23588-4.6	GCUV	Jay Chao	07/12/16 10:50	Unload from Instrument
JC23588-4.6	Jay Chao	Secured Storage	07/12/16 10:50	Return to Storage
JC23588-5.1	Secured Storage	Eric Chiles	07/12/16 06:10	Retrieve from Storage
JC23588-5.1	Eric Chiles		07/13/16 06:34	Depleted
JC23588-5.1.1	Eric Chiles	Organics Prep	07/12/16 06:59	Extract from JC23588-5.1
JC23588-5.1.1	Organics Prep	Nicholas Goydish	07/12/16 13:01	Extract from JC23588-5.1
JC23588-5.1.1	Nicholas Goydish	Extract Storage	07/12/16 13:01	Return to Storage
JC23588-5.1.1	Extract Storage	Thomas Lally	07/13/16 15:11	Retrieve from Storage
JC23588-5.1.1	Thomas Lally	GC7Z	07/13/16 15:11	Load on Instrument
JC23588-5.4	Secured Storage	Ximena Collado	07/08/16 11:50	Retrieve from Storage
JC23588-5.4	Ximena Collado	GCMS4D	07/08/16 11:50	Load on Instrument
JC23588-5.4	GCMS4D	Ximena Collado	07/11/16 11:17	Unload from Instrument
JC23588-5.4	Ximena Collado	Secured Storage	07/11/16 11:17	Return to Storage
JC23588-5.5	Secured Storage	Vianna Chau	07/09/16 14:22	Retrieve from Storage
JC23588-5.5	Vianna Chau	GCMS4D	07/09/16 14:22	Load on Instrument
JC23588-5.5	GCMS4D	Ximena Collado	07/11/16 11:17	Unload from Instrument
JC23588-5.5	Ximena Collado	Secured Storage	07/11/16 11:17	Return to Storage
JC23588-5.6	Secured Storage	Nathalie Arbieto	07/08/16 10:35	Retrieve from Storage
JC23588-5.6	Nathalie Arbieto	GCUV	07/08/16 11:49	Load on Instrument
JC23588-5.6	GCUV	Jay Chao	07/12/16 10:50	Unload from Instrument
JC23588-5.6	Jay Chao	Secured Storage	07/12/16 10:50	Return to Storage
JC23588-6.1	Secured Storage	Eric Chiles	07/12/16 06:10	Retrieve from Storage
JC23588-6.1	Eric Chiles		07/13/16 06:34	Depleted
JC23588-6.1.1	Eric Chiles	Organics Prep	07/12/16 06:59	Extract from JC23588-6.1
JC23588-6.1.1	Organics Prep	Nicholas Goydish	07/12/16 13:01	Extract from JC23588-6.1
JC23588-6.1.1	Nicholas Goydish	Extract Storage	07/12/16 13:01	Return to Storage
JC23588-6.1.1	Extract Storage	Thomas Lally	07/13/16 15:11	Retrieve from Storage
JC23588-6.1.1	Thomas Lally	GC7Z	07/13/16 15:11	Load on Instrument

SGS Accutest Internal Chain of Custody

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD
Received: 07/07/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC23588-6.4	Secured Storage	Ximena Collado	07/11/16 12:52	Retrieve from Storage
JC23588-6.4	Ximena Collado	GCMS4D	07/11/16 12:52	Load on Instrument
JC23588-6.4	GCMS4D	Ximena Collado	07/13/16 08:24	Unload from Instrument
JC23588-6.4	Ximena Collado	Secured Storage	07/13/16 08:24	Return to Storage
JC23588-6.6	Secured Storage	Nathalie Arbieto	07/08/16 10:35	Retrieve from Storage
JC23588-6.6	Nathalie Arbieto	GCUV	07/08/16 11:49	Load on Instrument
JC23588-6.6	GCUV	Jay Chao	07/12/16 10:50	Unload from Instrument
JC23588-6.6	Jay Chao	Secured Storage	07/12/16 10:50	Return to Storage
JC23588-7.2	Secured Storage	Eric Chiles	07/12/16 06:16	Retrieve from Storage
JC23588-7.2	Eric Chiles		07/13/16 06:34	Depleted
JC23588-7.2.1	Eric Chiles	Organics Prep	07/12/16 06:59	Extract from JC23588-7.2
JC23588-7.2.1	Organics Prep	Nicholas Goydish	07/12/16 13:01	Extract from JC23588-7.2
JC23588-7.2.1	Nicholas Goydish	Extract Storage	07/12/16 13:01	Return to Storage
JC23588-7.2.1	Extract Storage	Thomas Lally	07/13/16 15:11	Retrieve from Storage
JC23588-7.2.1	Thomas Lally	GC7Z	07/13/16 15:11	Load on Instrument
JC23588-7.4	Secured Storage	Ximena Collado	07/08/16 11:50	Retrieve from Storage
JC23588-7.4	Ximena Collado	GCMS4D	07/08/16 11:50	Load on Instrument
JC23588-7.4	GCMS4D	Ximena Collado	07/11/16 11:17	Unload from Instrument
JC23588-7.4	Ximena Collado	Secured Storage	07/11/16 11:17	Return to Storage
JC23588-7.6	Secured Storage	Nathalie Arbieto	07/08/16 10:35	Retrieve from Storage
JC23588-7.6	Nathalie Arbieto	GCUV	07/08/16 11:49	Load on Instrument
JC23588-7.6	GCUV	Jay Chao	07/12/16 10:50	Unload from Instrument
JC23588-7.6	Jay Chao	Secured Storage	07/12/16 10:50	Return to Storage
JC23588-8.1	Secured Storage	Eric Chiles	07/12/16 06:16	Retrieve from Storage
JC23588-8.1	Eric Chiles		07/13/16 06:34	Depleted
JC23588-8.1.1	Eric Chiles	Organics Prep	07/12/16 06:59	Extract from JC23588-8.1
JC23588-8.1.1	Organics Prep	Nicholas Goydish	07/12/16 13:01	Extract from JC23588-8.1
JC23588-8.1.1	Nicholas Goydish	Extract Storage	07/12/16 13:01	Return to Storage
JC23588-8.1.1	Extract Storage	Thomas Lally	07/13/16 15:11	Retrieve from Storage
JC23588-8.1.1	Thomas Lally	GC7Z	07/13/16 15:11	Load on Instrument
JC23588-8.4	Secured Storage	Ximena Collado	07/11/16 12:52	Retrieve from Storage
JC23588-8.4	Ximena Collado	GCMS4D	07/11/16 12:52	Load on Instrument
JC23588-8.4	GCMS4D	Ximena Collado	07/13/16 08:24	Unload from Instrument
JC23588-8.4	Ximena Collado	Secured Storage	07/13/16 08:24	Return to Storage

SGS Accutest Internal Chain of Custody

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD
Received: 07/07/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC23588-8.6	Secured Storage	Nathalie Arbieto	07/08/16 10:35	Retrieve from Storage
JC23588-8.6	Nathalie Arbieto	GCUV	07/08/16 11:49	Load on Instrument
JC23588-8.6	GCUV	Jay Chao	07/12/16 10:50	Unload from Instrument
JC23588-8.6	Jay Chao	Secured Storage	07/12/16 10:50	Return to Storage
JC23588-9.2	Secured Storage	Eric Chiles	07/12/16 06:10	Retrieve from Storage
JC23588-9.2	Eric Chiles		07/13/16 06:34	Depleted
JC23588-9.2.1	Eric Chiles	Organics Prep	07/12/16 06:59	Extract from JC23588-9.2
JC23588-9.2.1	Organics Prep	Nicholas Goydish	07/12/16 13:01	Extract from JC23588-9.2
JC23588-9.2.1	Nicholas Goydish	Extract Storage	07/12/16 13:01	Return to Storage
JC23588-9.2.1	Extract Storage	Thomas Lally	07/13/16 15:11	Retrieve from Storage
JC23588-9.2.1	Thomas Lally	GC7Z	07/13/16 15:11	Load on Instrument
JC23588-9.4	Secured Storage	Ximena Collado	07/11/16 12:52	Retrieve from Storage
JC23588-9.4	Ximena Collado	GCMS4D	07/11/16 12:52	Load on Instrument
JC23588-9.4	GCMS4D	Ximena Collado	07/13/16 08:24	Unload from Instrument
JC23588-9.4	Ximena Collado	Secured Storage	07/13/16 08:24	Return to Storage
JC23588-9.6	Secured Storage	Nathalie Arbieto	07/08/16 10:35	Retrieve from Storage
JC23588-9.6	Nathalie Arbieto	GCUV	07/08/16 11:49	Load on Instrument
JC23588-9.6	GCUV	Jay Chao	07/12/16 10:50	Unload from Instrument
JC23588-9.6	Jay Chao	Secured Storage	07/12/16 10:50	Return to Storage

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4D3063-MB	4D69912.D	1	07/09/16	XC	n/a	n/a	V4D3063

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

JC23588-1, JC23588-2, JC23588-3, JC23588-4, JC23588-5, JC23588-7

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.8	ug/l	
71-43-2	Benzene	ND	0.50	0.14	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.46	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.55	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
74-83-9	Bromomethane	ND	2.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	1.9	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.54	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.17	ug/l	
75-00-3	Chloroethane	ND	1.0	0.44	ug/l	
67-66-3	Chloroform	ND	1.0	0.23	ug/l	
74-87-3	Chloromethane	ND	1.0	0.96	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.18	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.29	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.41	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.69	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.23	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.22	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.23	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.19	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.21	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.70	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.39	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.36	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.33	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.28	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.42	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.19	ug/l	

Method Blank Summary

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4D3063-MB	4D69912.D	1	07/09/16	XC	n/a	n/a	V4D3063

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

JC23588-1, JC23588-2, JC23588-3, JC23588-4, JC23588-5, JC23588-7

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.22	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.16	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.2	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.28	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.35	ug/l	
91-20-3	Naphthalene	ND	5.0	0.39	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.17	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	3.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.23	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.17	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.39	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.23	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.22	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.28	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.58	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.75	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.26	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.32	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.21	ug/l	

Method Blank Summary

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4D3063-MB	4D69912.D	1	07/09/16	XC	n/a	n/a	V4D3063

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

JC23588-1, JC23588-2, JC23588-3, JC23588-4, JC23588-5, JC23588-7

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	99%	76-120%
17060-07-0	1,2-Dichloroethane-D4	97%	73-122%
2037-26-5	Toluene-D8	103%	84-119%
460-00-4	4-Bromofluorobenzene	107%	78-117%

Method Blank Summary

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4D3064-MB	4D69938.D	1	07/11/16	XC	n/a	n/a	V4D3064

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

JC23588-6, JC23588-8, JC23588-9

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.8	ug/l	
71-43-2	Benzene	ND	0.50	0.14	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.46	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.55	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
74-83-9	Bromomethane	ND	2.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	1.9	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.54	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.17	ug/l	
75-00-3	Chloroethane	ND	1.0	0.44	ug/l	
67-66-3	Chloroform	ND	1.0	0.23	ug/l	
74-87-3	Chloromethane	ND	1.0	0.96	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.18	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.29	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.41	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.69	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.23	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.22	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.23	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.19	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.21	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.70	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.39	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.36	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.33	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.28	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.42	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.19	ug/l	

Method Blank Summary

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4D3064-MB	4D69938.D	1	07/11/16	XC	n/a	n/a	V4D3064

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

JC23588-6, JC23588-8, JC23588-9

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.22	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.16	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.2	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.28	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.35	ug/l	
91-20-3	Naphthalene	ND	5.0	0.39	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.17	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	3.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.23	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.17	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.39	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.23	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.22	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.28	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.58	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.75	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.26	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.32	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.21	ug/l	

Method Blank Summary

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4D3064-MB	4D69938.D	1	07/11/16	XC	n/a	n/a	V4D3064

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

JC23588-6, JC23588-8, JC23588-9

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	93%	76-120%
17060-07-0	1,2-Dichloroethane-D4	90%	73-122%
2037-26-5	Toluene-D8	101%	84-119%
460-00-4	4-Bromofluorobenzene	102%	78-117%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	3.28	38	ug/l	J
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4D3063-BS	4D69913.D	1	07/09/16	XC	n/a	n/a	V4D3063

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

JC23588-1, JC23588-2, JC23588-3, JC23588-4, JC23588-5, JC23588-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	58.4	117	47-144
71-43-2	Benzene	50	54.6	109	81-119
108-86-1	Bromobenzene	50	52.6	105	83-118
74-97-5	Bromochloromethane	50	53.8	108	84-120
75-27-4	Bromodichloromethane	50	51.1	102	81-125
75-25-2	Bromoform	50	51.7	103	74-128
74-83-9	Bromomethane	50	50.5	101	52-146
78-93-3	2-Butanone (MEK)	50	56.5	113	68-130
104-51-8	n-Butylbenzene	50	58.4	117	79-127
135-98-8	sec-Butylbenzene	50	58.0	116	78-124
98-06-6	tert-Butylbenzene	50	53.9	108	77-127
56-23-5	Carbon tetrachloride	50	48.7	97	77-140
108-90-7	Chlorobenzene	50	53.3	107	84-116
75-00-3	Chloroethane	50	53.0	106	70-148
67-66-3	Chloroform	50	52.1	104	81-120
74-87-3	Chloromethane	50	57.7	115	50-143
95-49-8	o-Chlorotoluene	50	54.7	109	82-118
106-43-4	p-Chlorotoluene	50	53.3	107	80-116
108-20-3	Di-Isopropyl ether	50	54.0	108	66-128
96-12-8	1,2-Dibromo-3-chloropropane	50	55.7	111	66-132
124-48-1	Dibromochloromethane	50	51.8	104	81-122
106-93-4	1,2-Dibromoethane	50	52.4	105	81-120
95-50-1	1,2-Dichlorobenzene	50	54.0	108	80-117
541-73-1	1,3-Dichlorobenzene	50	53.2	106	81-116
106-46-7	1,4-Dichlorobenzene	50	52.4	105	80-115
75-71-8	Dichlorodifluoromethane	50	61.3	123	36-169
75-34-3	1,1-Dichloroethane	50	58.5	117	80-125
107-06-2	1,2-Dichloroethane	50	48.2	96	78-131
75-35-4	1,1-Dichloroethene	50	57.2	114	73-127
156-59-2	cis-1,2-Dichloroethene	50	53.4	107	77-118
156-60-5	trans-1,2-Dichloroethene	50	56.6	113	75-118
78-87-5	1,2-Dichloropropane	50	57.8	116	80-124
142-28-9	1,3-Dichloropropane	50	54.2	108	78-119
594-20-7	2,2-Dichloropropane	50	52.7	105	62-138
563-58-6	1,1-Dichloropropene	50	54.2	108	77-119
10061-01-5	cis-1,3-Dichloropropene	50	56.5	113	72-121

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4D3063-BS	4D69913.D	1	07/09/16	XC	n/a	n/a	V4D3063

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

JC23588-1, JC23588-2, JC23588-3, JC23588-4, JC23588-5, JC23588-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	50	54.5	109	73-122
100-41-4	Ethylbenzene	50	53.0	106	80-118
87-68-3	Hexachlorobutadiene	50	55.7	111	70-136
98-82-8	Isopropylbenzene	50	56.5	113	78-125
99-87-6	p-Isopropyltoluene	50	56.1	112	81-124
1634-04-4	Methyl Tert Butyl Ether	100	105	105	73-122
108-10-1	4-Methyl-2-pentanone(MIBK)	50	58.1	116	73-129
74-95-3	Methylene bromide	50	52.2	104	84-123
75-09-2	Methylene chloride	50	57.0	114	75-122
91-20-3	Naphthalene	50	53.2	106	66-136
103-65-1	n-Propylbenzene	50	56.1	112	81-126
100-42-5	Styrene	50	53.7	107	81-121
75-65-0	Tert Butyl Alcohol	250	246	98	79-121
994-05-8	tert-Amyl Methyl Ether	50	46.7	93	75-123
637-92-3	tert-Butyl Ethyl Ether	50	52.6	105	72-127
630-20-6	1,1,1,2-Tetrachloroethane	50	50.1	100	81-123
79-34-5	1,1,2,2-Tetrachloroethane	50	58.0	116	69-116
127-18-4	Tetrachloroethene	50	50.3	101	69-138
108-88-3	Toluene	50	54.3	109	80-122
87-61-6	1,2,3-Trichlorobenzene	50	56.3	113	74-137
120-82-1	1,2,4-Trichlorobenzene	50	57.0	114	75-135
71-55-6	1,1,1-Trichloroethane	50	50.0	100	80-131
79-00-5	1,1,2-Trichloroethane	50	55.9	112	78-122
79-01-6	Trichloroethene	50	52.9	106	83-122
75-69-4	Trichlorofluoromethane	50	51.2	102	66-143
96-18-4	1,2,3-Trichloropropane	50	51.2	102	76-120
95-63-6	1,2,4-Trimethylbenzene	50	55.2	110	82-125
108-67-8	1,3,5-Trimethylbenzene	50	55.7	111	79-123
75-01-4	Vinyl chloride	50	56.3	113	57-138
	m,p-Xylene	100	105	105	82-119
95-47-6	o-Xylene	50	52.2	104	82-119
1330-20-7	Xylene (total)	150	158	105	82-119

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4D3063-BS	4D69913.D	1	07/09/16	XC	n/a	n/a	V4D3063

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

JC23588-1, JC23588-2, JC23588-3, JC23588-4, JC23588-5, JC23588-7

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	97%	76-120%
17060-07-0	1,2-Dichloroethane-D4	92%	73-122%
2037-26-5	Toluene-D8	104%	84-119%
460-00-4	4-Bromofluorobenzene	105%	78-117%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4D3064-BS	4D69939.D	1	07/11/16	XC	n/a	n/a	V4D3064

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

JC23588-6, JC23588-8, JC23588-9

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	48.6	97	47-144
71-43-2	Benzene	50	50.6	101	81-119
108-86-1	Bromobenzene	50	50.7	101	83-118
74-97-5	Bromochloromethane	50	49.3	99	84-120
75-27-4	Bromodichloromethane	50	48.1	96	81-125
75-25-2	Bromoform	50	51.0	102	74-128
74-83-9	Bromomethane	50	44.2	88	52-146
78-93-3	2-Butanone (MEK)	50	49.8	100	68-130
104-51-8	n-Butylbenzene	50	55.1	110	79-127
135-98-8	sec-Butylbenzene	50	55.4	111	78-124
98-06-6	tert-Butylbenzene	50	52.3	105	77-127
56-23-5	Carbon tetrachloride	50	48.7	97	77-140
108-90-7	Chlorobenzene	50	51.6	103	84-116
75-00-3	Chloroethane	50	43.9	88	70-148
67-66-3	Chloroform	50	48.0	96	81-120
74-87-3	Chloromethane	50	49.9	100	50-143
95-49-8	o-Chlorotoluene	50	50.1	100	82-118
106-43-4	p-Chlorotoluene	50	51.4	103	80-116
108-20-3	Di-Isopropyl ether	50	49.5	99	66-128
96-12-8	1,2-Dibromo-3-chloropropane	50	52.9	106	66-132
124-48-1	Dibromochloromethane	50	51.3	103	81-122
106-93-4	1,2-Dibromoethane	50	49.8	100	81-120
95-50-1	1,2-Dichlorobenzene	50	51.6	103	80-117
541-73-1	1,3-Dichlorobenzene	50	50.6	101	81-116
106-46-7	1,4-Dichlorobenzene	50	50.8	102	80-115
75-71-8	Dichlorodifluoromethane	50	48.3	97	36-169
75-34-3	1,1-Dichloroethane	50	50.6	101	80-125
107-06-2	1,2-Dichloroethane	50	46.3	93	78-131
75-35-4	1,1-Dichloroethene	50	51.8	104	73-127
156-59-2	cis-1,2-Dichloroethene	50	47.9	96	77-118
156-60-5	trans-1,2-Dichloroethene	50	47.7	95	75-118
78-87-5	1,2-Dichloropropane	50	51.6	103	80-124
142-28-9	1,3-Dichloropropane	50	49.6	99	78-119
594-20-7	2,2-Dichloropropane	50	49.1	98	62-138
563-58-6	1,1-Dichloropropene	50	52.3	105	77-119
10061-01-5	cis-1,3-Dichloropropene	50	53.3	107	72-121

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4D3064-BS	4D69939.D	1	07/11/16	XC	n/a	n/a	V4D3064

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

JC23588-6, JC23588-8, JC23588-9

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	50	50.6	101	73-122
100-41-4	Ethylbenzene	50	50.6	101	80-118
87-68-3	Hexachlorobutadiene	50	54.5	109	70-136
98-82-8	Isopropylbenzene	50	53.0	106	78-125
99-87-6	p-Isopropyltoluene	50	55.9	112	81-124
1634-04-4	Methyl Tert Butyl Ether	100	97.2	97	73-122
108-10-1	4-Methyl-2-pentanone(MIBK)	50	52.9	106	73-129
74-95-3	Methylene bromide	50	48.6	97	84-123
75-09-2	Methylene chloride	50	50.7	101	75-122
91-20-3	Naphthalene	50	51.2	102	66-136
103-65-1	n-Propylbenzene	50	53.4	107	81-126
100-42-5	Styrene	50	52.4	105	81-121
75-65-0	Tert Butyl Alcohol	250	236	94	79-121
994-05-8	tert-Amyl Methyl Ether	50	45.5	91	75-123
637-92-3	tert-Butyl Ethyl Ether	50	50.3	101	72-127
630-20-6	1,1,1,2-Tetrachloroethane	50	49.1	98	81-123
79-34-5	1,1,2,2-Tetrachloroethane	50	50.4	101	69-116
127-18-4	Tetrachloroethene	50	52.3	105	69-138
108-88-3	Toluene	50	52.3	105	80-122
87-61-6	1,2,3-Trichlorobenzene	50	54.4	109	74-137
120-82-1	1,2,4-Trichlorobenzene	50	55.0	110	75-135
71-55-6	1,1,1-Trichloroethane	50	48.4	97	80-131
79-00-5	1,1,2-Trichloroethane	50	51.5	103	78-122
79-01-6	Trichloroethene	50	50.3	101	83-122
75-69-4	Trichlorofluoromethane	50	47.2	94	66-143
96-18-4	1,2,3-Trichloropropane	50	47.0	94	76-120
95-63-6	1,2,4-Trimethylbenzene	50	53.9	108	82-125
108-67-8	1,3,5-Trimethylbenzene	50	52.8	106	79-123
75-01-4	Vinyl chloride	50	44.7	89	57-138
	m,p-Xylene	100	102	102	82-119
95-47-6	o-Xylene	50	51.0	102	82-119
1330-20-7	Xylene (total)	150	153	102	82-119

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4D3064-BS	4D69939.D	1	07/11/16	XC	n/a	n/a	V4D3064

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

JC23588-6, JC23588-8, JC23588-9

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	93%	76-120%
17060-07-0	1,2-Dichloroethane-D4	87%	73-122%
2037-26-5	Toluene-D8	103%	84-119%
460-00-4	4-Bromofluorobenzene	97%	78-117%

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC23588-1MS	4D69921.D	1	07/09/16	XC	n/a	n/a	V4D3063
JC23588-1	4D69915.D	1	07/09/16	XC	n/a	n/a	V4D3063

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

JC23588-1, JC23588-2, JC23588-3, JC23588-4, JC23588-5, JC23588-7

CAS No.	Compound	JC23588-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
67-64-1	Acetone	ND		50	54.1	108	33-158
71-43-2	Benzene	ND		50	52.9	106	43-138
108-86-1	Bromobenzene	ND		50	50.0	100	72-126
74-97-5	Bromochloromethane	ND		50	49.7	99	75-127
75-27-4	Bromodichloromethane	ND		50	47.3	95	72-128
75-25-2	Bromoform	ND		50	45.9	92	70-131
74-83-9	Bromomethane	ND		50	45.9	92	47-142
78-93-3	2-Butanone (MEK)	ND		50	51.9	104	56-146
104-51-8	n-Butylbenzene	ND		50	57.1	114	50-142
135-98-8	sec-Butylbenzene	ND		50	57.5	115	52-138
98-06-6	tert-Butylbenzene	ND		50	53.0	106	55-137
56-23-5	Carbon tetrachloride	ND		50	48.9	98	45-149
108-90-7	Chlorobenzene	ND		50	50.6	101	70-124
75-00-3	Chloroethane	ND		50	48.8	98	47-139
67-66-3	Chloroform	ND		50	50.2	100	66-126
74-87-3	Chloromethane	ND		50	54.3	109	41-140
95-49-8	o-Chlorotoluene	ND		50	51.2	102	66-128
106-43-4	p-Chlorotoluene	ND		50	51.5	103	66-124
108-20-3	Di-Isopropyl ether	ND		50	55.5	111	59-131
96-12-8	1,2-Dibromo-3-chloropropane	ND		50	50.1	100	64-136
124-48-1	Dibromochloromethane	ND		50	47.0	94	75-126
106-93-4	1,2-Dibromoethane	ND		50	47.1	94	77-124
95-50-1	1,2-Dichlorobenzene	ND		50	50.1	100	71-124
541-73-1	1,3-Dichlorobenzene	ND		50	49.6	99	69-125
106-46-7	1,4-Dichlorobenzene	ND		50	49.3	99	69-122
75-71-8	Dichlorodifluoromethane	ND		50	57.7	115	24-161
75-34-3	1,1-Dichloroethane	ND		50	55.5	111	60-129
107-06-2	1,2-Dichloroethane	ND		50	45.5	91	72-133
75-35-4	1,1-Dichloroethene	ND		50	57.1	114	40-137
156-59-2	cis-1,2-Dichloroethene	ND		50	50.2	100	57-128
156-60-5	trans-1,2-Dichloroethene	ND		50	53.0	106	53-128
78-87-5	1,2-Dichloropropane	ND		50	54.2	108	69-127
142-28-9	1,3-Dichloropropane	ND		50	49.4	99	73-123
594-20-7	2,2-Dichloropropane	ND		50	51.5	103	49-140
563-58-6	1,1-Dichloropropene	ND		50	56.5	113	47-137
10061-01-5	cis-1,3-Dichloropropene	ND		50	54.1	108	67-129

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC23588-1MS	4D69921.D	1	07/09/16	XC	n/a	n/a	V4D3063
JC23588-1	4D69915.D	1	07/09/16	XC	n/a	n/a	V4D3063

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

JC23588-1, JC23588-2, JC23588-3, JC23588-4, JC23588-5, JC23588-7

CAS No.	Compound	JC23588-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
10061-02-6	trans-1,3-Dichloropropene	ND		50	49.9	100	68-130
100-41-4	Ethylbenzene	ND		50	49.7	99	38-139
87-68-3	Hexachlorobutadiene	ND		50	53.8	108	40-149
98-82-8	Isopropylbenzene	ND		50	55.4	111	54-137
99-87-6	p-Isopropyltoluene	ND		50	55.7	111	57-135
1634-04-4	Methyl Tert Butyl Ether	ND		100	101	101	64-132
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		50	56.2	112	68-139
74-95-3	Methylene bromide	ND		50	48.1	96	77-127
75-09-2	Methylene chloride	ND		50	53.5	107	63-128
91-20-3	Naphthalene	ND		50	49.3	99	57-149
103-65-1	n-Propylbenzene	ND		50	56.2	112	49-136
100-42-5	Styrene	ND		50	50.1	100	61-134
75-65-0	Tert Butyl Alcohol	ND		250	250	100	67-138
994-05-8	tert-Amyl Methyl Ether	ND		50	47.5	95	67-132
637-92-3	tert-Butyl Ethyl Ether	ND		50	53.9	108	65-133
630-20-6	1,1,1,2-Tetrachloroethane	ND		50	45.5	91	72-130
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	52.3	105	67-126
127-18-4	Tetrachloroethene	ND		50	50.7	101	43-145
108-88-3	Toluene	ND		50	53.7	107	51-136
87-61-6	1,2,3-Trichlorobenzene	ND		50	52.4	105	66-140
120-82-1	1,2,4-Trichlorobenzene	ND		50	54.2	108	65-138
71-55-6	1,1,1-Trichloroethane	ND		50	50.7	101	51-141
79-00-5	1,1,2-Trichloroethane	ND		50	51.2	102	71-127
79-01-6	Trichloroethene	ND		50	51.6	103	55-136
75-69-4	Trichlorofluoromethane	ND		50	49.6	99	33-157
96-18-4	1,2,3-Trichloropropane	ND		50	46.5	93	74-127
95-63-6	1,2,4-Trimethylbenzene	ND		50	54.0	108	40-143
108-67-8	1,3,5-Trimethylbenzene	ND		50	53.8	108	54-135
75-01-4	Vinyl chloride	ND		50	48.8	98	34-147
	m,p-Xylene	ND		100	101	101	42-139
95-47-6	o-Xylene	ND		50	49.9	100	56-134
1330-20-7	Xylene (total)	ND		150	151	101	46-137

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC23588-1MS	4D69921.D	1	07/09/16	XC	n/a	n/a	V4D3063
JC23588-1	4D69915.D	1	07/09/16	XC	n/a	n/a	V4D3063

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

JC23588-1, JC23588-2, JC23588-3, JC23588-4, JC23588-5, JC23588-7

CAS No.	Surrogate Recoveries	MS	JC23588-1	Limits
1868-53-7	Dibromofluoromethane	96%	98%	76-120%
17060-07-0	1,2-Dichloroethane-D4	90%	97%	73-122%
2037-26-5	Toluene-D8	105%	103%	84-119%
460-00-4	4-Bromofluorobenzene	104%	106%	78-117%

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC23340-4MS	4D69948.D	1	07/11/16	XC	n/a	n/a	V4D3064
JC23340-4	4D69942.D	1	07/11/16	XC	n/a	n/a	V4D3064

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

JC23588-6, JC23588-8, JC23588-9

CAS No.	Compound	JC23340-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
67-64-1	Acetone	ND		50	49.6	99	33-158
71-43-2	Benzene	0.18	J	50	52.3	104	43-138
108-86-1	Bromobenzene	ND		50	51.6	103	72-126
74-97-5	Bromochloromethane	ND		50	49.9	100	75-127
75-27-4	Bromodichloromethane	ND		50	48.9	98	72-128
75-25-2	Bromoform	ND		50	50.2	100	70-131
74-83-9	Bromomethane	ND		50	47.9	96	47-142
78-93-3	2-Butanone (MEK)	ND		50	50.0	100	56-146
104-51-8	n-Butylbenzene	ND		50	57.3	115	50-142
135-98-8	sec-Butylbenzene	ND		50	56.9	114	52-138
98-06-6	tert-Butylbenzene	ND		50	52.6	105	55-137
56-23-5	Carbon tetrachloride	ND		50	51.4	103	45-149
108-90-7	Chlorobenzene	ND		50	52.7	105	70-124
75-00-3	Chloroethane	ND		50	47.3	95	47-139
67-66-3	Chloroform	ND		50	50.0	100	66-126
74-87-3	Chloromethane	ND		50	55.2	110	41-140
95-49-8	o-Chlorotoluene	ND		50	51.2	102	66-128
106-43-4	p-Chlorotoluene	ND		50	51.9	104	66-124
108-20-3	Di-Isopropyl ether	ND		50	50.8	102	59-131
96-12-8	1,2-Dibromo-3-chloropropane	ND		50	52.7	105	64-136
124-48-1	Dibromochloromethane	ND		50	50.8	102	75-126
106-93-4	1,2-Dibromoethane	ND		50	50.5	101	77-124
95-50-1	1,2-Dichlorobenzene	ND		50	52.2	104	71-124
541-73-1	1,3-Dichlorobenzene	ND		50	52.1	104	69-125
106-46-7	1,4-Dichlorobenzene	ND		50	51.9	104	69-122
75-71-8	Dichlorodifluoromethane	ND		50	56.5	113	24-161
75-34-3	1,1-Dichloroethane	ND		50	52.7	105	60-129
107-06-2	1,2-Dichloroethane	ND		50	47.1	94	72-133
75-35-4	1,1-Dichloroethene	ND		50	54.9	110	40-137
156-59-2	cis-1,2-Dichloroethene	ND		50	48.9	98	57-128
156-60-5	trans-1,2-Dichloroethene	ND		50	49.9	100	53-128
78-87-5	1,2-Dichloropropane	ND		50	52.8	106	69-127
142-28-9	1,3-Dichloropropane	ND		50	50.7	101	73-123
594-20-7	2,2-Dichloropropane	ND		50	50.5	101	49-140
563-58-6	1,1-Dichloropropene	ND		50	55.6	111	47-137
10061-01-5	cis-1,3-Dichloropropene	ND		50	55.3	111	67-129

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC23340-4MS	4D69948.D	1	07/11/16	XC	n/a	n/a	V4D3064
JC23340-4	4D69942.D	1	07/11/16	XC	n/a	n/a	V4D3064

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

JC23588-6, JC23588-8, JC23588-9

CAS No.	Compound	JC23340-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
10061-02-6	trans-1,3-Dichloropropene	ND		50	51.6	103	68-130
100-41-4	Ethylbenzene	ND		50	52.5	105	38-139
87-68-3	Hexachlorobutadiene	ND		50	55.8	112	40-149
98-82-8	Isopropylbenzene	ND		50	55.2	110	54-137
99-87-6	p-Isopropyltoluene	ND		50	57.3	115	57-135
1634-04-4	Methyl Tert Butyl Ether	2.8		100	100	97	64-132
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		50	53.9	108	68-139
74-95-3	Methylene bromide	ND		50	49.0	98	77-127
75-09-2	Methylene chloride	ND		50	51.5	103	63-128
91-20-3	Naphthalene	ND		50	49.9	100	57-149
103-65-1	n-Propylbenzene	ND		50	55.1	110	49-136
100-42-5	Styrene	ND		50	52.3	105	61-134
75-65-0	Tert Butyl Alcohol	ND		250	252	101	67-138
994-05-8	tert-Amyl Methyl Ether	ND		50	45.3	91	67-132
637-92-3	tert-Butyl Ethyl Ether	ND		50	50.7	101	65-133
630-20-6	1,1,1,2-Tetrachloroethane	ND		50	49.4	99	72-130
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	52.0	104	67-126
127-18-4	Tetrachloroethene	ND		50	54.3	109	43-145
108-88-3	Toluene	ND		50	54.1	108	51-136
87-61-6	1,2,3-Trichlorobenzene	ND		50	53.0	106	66-140
120-82-1	1,2,4-Trichlorobenzene	ND		50	54.6	109	65-138
71-55-6	1,1,1-Trichloroethane	ND		50	51.2	102	51-141
79-00-5	1,1,2-Trichloroethane	ND		50	52.2	104	71-127
79-01-6	Trichloroethene	ND		50	52.9	106	55-136
75-69-4	Trichlorofluoromethane	ND		50	51.1	102	33-157
96-18-4	1,2,3-Trichloropropane	ND		50	47.6	95	74-127
95-63-6	1,2,4-Trimethylbenzene	ND		50	55.4	111	40-143
108-67-8	1,3,5-Trimethylbenzene	ND		50	53.9	108	54-135
75-01-4	Vinyl chloride	ND		50	48.9	98	34-147
	m,p-Xylene	ND		100	104	104	42-139
95-47-6	o-Xylene	ND		50	51.4	103	56-134
1330-20-7	Xylene (total)	ND		150	155	103	46-137

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC23340-4MS	4D69948.D	1	07/11/16	XC	n/a	n/a	V4D3064
JC23340-4	4D69942.D	1	07/11/16	XC	n/a	n/a	V4D3064

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

JC23588-6, JC23588-8, JC23588-9

CAS No.	Surrogate Recoveries	MS	JC23340-4	Limits
1868-53-7	Dibromofluoromethane	93%	94%	76-120%
17060-07-0	1,2-Dichloroethane-D4	88%	92%	73-122%
2037-26-5	Toluene-D8	103%	102%	84-119%
460-00-4	4-Bromofluorobenzene	99%	98%	78-117%

* = Outside of Control Limits.

Duplicate Summary

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC23588-5DUP	4D69923.D	1	07/09/16	XC	n/a	n/a	V4D3063
JC23588-5	4D69916.D	1	07/09/16	XC	n/a	n/a	V4D3063

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

JC23588-1, JC23588-2, JC23588-3, JC23588-4, JC23588-5, JC23588-7

CAS No.	Compound	JC23588-5 ug/l	Q	DUP ug/l	Q	RPD	Limits
67-64-1	Acetone	6.5	J	6.4	J	2	30
71-43-2	Benzene	0.21	J	0.22	J	5	30
108-86-1	Bromobenzene	ND		ND		nc	30
74-97-5	Bromochloromethane	ND		ND		nc	30
75-27-4	Bromodichloromethane	ND		ND		nc	30
75-25-2	Bromoform	ND		ND		nc	30
74-83-9	Bromomethane	ND		ND		nc	30
78-93-3	2-Butanone (MEK)	ND		ND		nc	30
104-51-8	n-Butylbenzene	ND		ND		nc	30
135-98-8	sec-Butylbenzene	ND		ND		nc	30
98-06-6	tert-Butylbenzene	ND		ND		nc	10
56-23-5	Carbon tetrachloride	ND		ND		nc	30
108-90-7	Chlorobenzene	ND		ND		nc	30
75-00-3	Chloroethane	ND		ND		nc	30
67-66-3	Chloroform	ND		ND		nc	30
74-87-3	Chloromethane	ND		ND		nc	30
95-49-8	o-Chlorotoluene	ND		ND		nc	30
106-43-4	p-Chlorotoluene	ND		ND		nc	30
108-20-3	Di-Isopropyl ether	ND		ND		nc	30
96-12-8	1,2-Dibromo-3-chloropropane	ND		ND		nc	30
124-48-1	Dibromochloromethane	ND		ND		nc	30
106-93-4	1,2-Dibromoethane	ND		ND		nc	30
95-50-1	1,2-Dichlorobenzene	ND		ND		nc	30
541-73-1	1,3-Dichlorobenzene	ND		ND		nc	30
106-46-7	1,4-Dichlorobenzene	ND		ND		nc	30
75-71-8	Dichlorodifluoromethane	ND		ND		nc	30
75-34-3	1,1-Dichloroethane	ND		ND		nc	30
107-06-2	1,2-Dichloroethane	ND		ND		nc	30
75-35-4	1,1-Dichloroethene	ND		ND		nc	30
156-59-2	cis-1,2-Dichloroethene	ND		ND		nc	30
156-60-5	trans-1,2-Dichloroethene	ND		ND		nc	30
78-87-5	1,2-Dichloropropane	ND		ND		nc	30
142-28-9	1,3-Dichloropropane	ND		ND		nc	30
594-20-7	2,2-Dichloropropane	ND		ND		nc	30
563-58-6	1,1-Dichloropropene	ND		ND		nc	30
10061-01-5	cis-1,3-Dichloropropene	ND		ND		nc	30

* = Outside of Control Limits.

Duplicate Summary

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC23588-5DUP	4D69923.D	1	07/09/16	XC	n/a	n/a	V4D3063
JC23588-5	4D69916.D	1	07/09/16	XC	n/a	n/a	V4D3063

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

JC23588-1, JC23588-2, JC23588-3, JC23588-4, JC23588-5, JC23588-7

CAS No.	Compound	JC23588-5 ug/l	Q	DUP ug/l	Q	RPD	Limits
10061-02-6	trans-1,3-Dichloropropene	ND		ND		nc	30
100-41-4	Ethylbenzene	ND		ND		nc	30
87-68-3	Hexachlorobutadiene	ND		ND		nc	30
98-82-8	Isopropylbenzene	ND		ND		nc	30
99-87-6	p-Isopropyltoluene	ND		ND		nc	30
1634-04-4	Methyl Tert Butyl Ether	ND		ND		nc	30
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		ND		nc	30
74-95-3	Methylene bromide	ND		ND		nc	30
75-09-2	Methylene chloride	ND		ND		nc	30
91-20-3	Naphthalene	ND		ND		nc	30
103-65-1	n-Propylbenzene	ND		ND		nc	30
100-42-5	Styrene	ND		ND		nc	30
75-65-0	Tert Butyl Alcohol	ND		ND		nc	30
994-05-8	tert-Amyl Methyl Ether	ND		ND		nc	30
637-92-3	tert-Butyl Ethyl Ether	ND		ND		nc	30
630-20-6	1,1,1,2-Tetrachloroethane	ND		ND		nc	30
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		nc	30
127-18-4	Tetrachloroethene	ND		ND		nc	30
108-88-3	Toluene	ND		ND		nc	30
87-61-6	1,2,3-Trichlorobenzene	ND		ND		nc	30
120-82-1	1,2,4-Trichlorobenzene	ND		ND		nc	30
71-55-6	1,1,1-Trichloroethane	ND		ND		nc	30
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	30
79-01-6	Trichloroethene	ND		ND		nc	30
75-69-4	Trichlorofluoromethane	ND		ND		nc	30
96-18-4	1,2,3-Trichloropropane	ND		ND		nc	30
95-63-6	1,2,4-Trimethylbenzene	ND		ND		nc	30
108-67-8	1,3,5-Trimethylbenzene	ND		ND		nc	30
75-01-4	Vinyl chloride	ND		ND		nc	30
	m,p-Xylene	ND		ND		nc	30
95-47-6	o-Xylene	ND		ND		nc	30
1330-20-7	Xylene (total)	ND		ND		nc	30

* = Outside of Control Limits.

Duplicate Summary

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC23588-5DUP	4D69923.D	1	07/09/16	XC	n/a	n/a	V4D3063
JC23588-5	4D69916.D	1	07/09/16	XC	n/a	n/a	V4D3063

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

JC23588-1, JC23588-2, JC23588-3, JC23588-4, JC23588-5, JC23588-7

CAS No.	Surrogate Recoveries	DUP	JC23588-5	Limits
1868-53-7	Dibromofluoromethane	99%	99%	76-120%
17060-07-0	1,2-Dichloroethane-D4	97%	97%	73-122%
2037-26-5	Toluene-D8	103%	102%	84-119%
460-00-4	4-Bromofluorobenzene	106%	106%	78-117%

* = Outside of Control Limits.

Duplicate Summary

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC23340-7DUP	4D69950.D	1	07/11/16	XC	n/a	n/a	V4D3064
JC23340-7	4D69943.D	1	07/11/16	XC	n/a	n/a	V4D3064

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

JC23588-6, JC23588-8, JC23588-9

CAS No.	Compound	JC23340-7 ug/l	Q	DUP ug/l	Q	RPD	Limits
67-64-1	Acetone	ND		ND		nc	30
71-43-2	Benzene	ND		ND		nc	30
108-86-1	Bromobenzene	ND		ND		nc	30
74-97-5	Bromochloromethane	ND		ND		nc	30
75-27-4	Bromodichloromethane	ND		ND		nc	30
75-25-2	Bromoform	ND		ND		nc	30
74-83-9	Bromomethane	ND		ND		nc	30
78-93-3	2-Butanone (MEK)	ND		ND		nc	30
104-51-8	n-Butylbenzene	ND		ND		nc	30
135-98-8	sec-Butylbenzene	ND		ND		nc	30
98-06-6	tert-Butylbenzene	ND		ND		nc	10
56-23-5	Carbon tetrachloride	ND		ND		nc	30
108-90-7	Chlorobenzene	ND		ND		nc	30
75-00-3	Chloroethane	ND		ND		nc	30
67-66-3	Chloroform	ND		ND		nc	30
74-87-3	Chloromethane	ND		ND		nc	30
95-49-8	o-Chlorotoluene	ND		ND		nc	30
106-43-4	p-Chlorotoluene	ND		ND		nc	30
108-20-3	Di-Isopropyl ether	ND		ND		nc	30
96-12-8	1,2-Dibromo-3-chloropropane	ND		ND		nc	30
124-48-1	Dibromochloromethane	ND		ND		nc	30
106-93-4	1,2-Dibromoethane	ND		ND		nc	30
95-50-1	1,2-Dichlorobenzene	ND		ND		nc	30
541-73-1	1,3-Dichlorobenzene	ND		ND		nc	30
106-46-7	1,4-Dichlorobenzene	ND		ND		nc	30
75-71-8	Dichlorodifluoromethane	ND		ND		nc	30
75-34-3	1,1-Dichloroethane	ND		ND		nc	30
107-06-2	1,2-Dichloroethane	ND		ND		nc	30
75-35-4	1,1-Dichloroethene	ND		ND		nc	30
156-59-2	cis-1,2-Dichloroethene	ND		ND		nc	30
156-60-5	trans-1,2-Dichloroethene	ND		ND		nc	30
78-87-5	1,2-Dichloropropane	ND		ND		nc	30
142-28-9	1,3-Dichloropropane	ND		ND		nc	30
594-20-7	2,2-Dichloropropane	ND		ND		nc	30
563-58-6	1,1-Dichloropropene	ND		ND		nc	30
10061-01-5	cis-1,3-Dichloropropene	ND		ND		nc	30

* = Outside of Control Limits.

Duplicate Summary

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC23340-7DUP	4D69950.D	1	07/11/16	XC	n/a	n/a	V4D3064
JC23340-7	4D69943.D	1	07/11/16	XC	n/a	n/a	V4D3064

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

JC23588-6, JC23588-8, JC23588-9

CAS No.	Compound	JC23340-7 ug/l	Q	DUP ug/l	Q	RPD	Limits
10061-02-6	trans-1,3-Dichloropropene	ND		ND		nc	30
100-41-4	Ethylbenzene	ND		ND		nc	30
87-68-3	Hexachlorobutadiene	ND		ND		nc	30
98-82-8	Isopropylbenzene	ND		ND		nc	30
99-87-6	p-Isopropyltoluene	ND		ND		nc	30
1634-04-4	Methyl Tert Butyl Ether	ND		ND		nc	30
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		ND		nc	30
74-95-3	Methylene bromide	ND		ND		nc	30
75-09-2	Methylene chloride	ND		ND		nc	30
91-20-3	Naphthalene	ND		ND		nc	30
103-65-1	n-Propylbenzene	ND		ND		nc	30
100-42-5	Styrene	ND		ND		nc	30
75-65-0	Tert Butyl Alcohol	ND		ND		nc	30
994-05-8	tert-Amyl Methyl Ether	ND		ND		nc	30
637-92-3	tert-Butyl Ethyl Ether	ND		ND		nc	30
630-20-6	1,1,1,2-Tetrachloroethane	ND		ND		nc	30
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		nc	30
127-18-4	Tetrachloroethene	ND		ND		nc	30
108-88-3	Toluene	ND		ND		nc	30
87-61-6	1,2,3-Trichlorobenzene	ND		ND		nc	30
120-82-1	1,2,4-Trichlorobenzene	ND		ND		nc	30
71-55-6	1,1,1-Trichloroethane	ND		ND		nc	30
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	30
79-01-6	Trichloroethene	ND		ND		nc	30
75-69-4	Trichlorofluoromethane	ND		ND		nc	30
96-18-4	1,2,3-Trichloropropane	ND		ND		nc	30
95-63-6	1,2,4-Trimethylbenzene	ND		ND		nc	30
108-67-8	1,3,5-Trimethylbenzene	ND		ND		nc	30
75-01-4	Vinyl chloride	ND		ND		nc	30
	m,p-Xylene	ND		ND		nc	30
95-47-6	o-Xylene	ND		ND		nc	30
1330-20-7	Xylene (total)	ND		ND		nc	30

* = Outside of Control Limits.

Duplicate Summary

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC23340-7DUP	4D69950.D	1	07/11/16	XC	n/a	n/a	V4D3064
JC23340-7	4D69943.D	1	07/11/16	XC	n/a	n/a	V4D3064

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

JC23588-6, JC23588-8, JC23588-9

CAS No.	Surrogate Recoveries	DUP	JC23340-7	Limits
1868-53-7	Dibromofluoromethane	94%	93%	76-120%
17060-07-0	1,2-Dichloroethane-D4	92%	91%	73-122%
2037-26-5	Toluene-D8	102%	102%	84-119%
460-00-4	4-Bromofluorobenzene	102%	100%	78-117%

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample: V4D3034-BFB
Lab File ID: 4D69035.D
Instrument ID: GCMS4D
Injection Date: 06/06/16
Injection Time: 16:36

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	16383	17.6		Pass
75	30.0 - 60.0% of mass 95	43509	46.8		Pass
95	Base peak, 100% relative abundance	92997	100.0		Pass
96	5.0 - 9.0% of mass 95	6329	6.81		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	75712	81.4		Pass
175	5.0 - 9.0% of mass 174	5668	6.09	(7.49) [a]	Pass
176	95.0 - 101.0% of mass 174	73232	78.7	(96.7) [a]	Pass
177	5.0 - 9.0% of mass 176	4859	5.22	(6.64) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	4D69036.D	06/06/16	17:18	00:42	(unrelated sample)
V4D3034-IC3034	4D69036.D	06/06/16	17:18	00:42	Initial cal 0.2
V4D3034-IC3034	4D69037.D	06/06/16	17:46	01:10	Initial cal 0.5
V4D3034-IC3034	4D69038.D	06/06/16	18:14	01:38	Initial cal 1
ZZZZZZ	4D69039.D	06/06/16	18:43	02:07	(unrelated sample)
V4D3034-IC3034	4D69039.D	06/06/16	18:43	02:07	Initial cal 2
ZZZZZZ	4D69040.D	06/06/16	19:11	02:35	(unrelated sample)
V4D3034-IC3034	4D69040.D	06/06/16	19:11	02:35	Initial cal 5
V4D3034-IC3034	4D69041.D	06/06/16	19:40	03:04	Initial cal 10
V4D3034-IC3034	4D69042.D	06/06/16	20:08	03:32	Initial cal 20
V4D3034-ICC3034	4D69043.D	06/06/16	20:37	04:01	Initial cal 50
V4D3034-IC3034	4D69044.D	06/06/16	21:05	04:29	Initial cal 100
V4D3034-IC3034	4D69045.D	06/06/16	21:33	04:57	Initial cal 200
V4D3034-ICV3034	4D69048.D	06/06/16	22:59	06:23	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample: V4D3063-BFB
Lab File ID: 4D69909.D
Instrument ID: GCMS4D
Injection Date: 07/09/16
Injection Time: 10:15

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	26659	16.9		Pass
75	30.0 - 60.0% of mass 95	70205	44.6		Pass
95	Base peak, 100% relative abundance	157291	100.0		Pass
96	5.0 - 9.0% of mass 95	10716	6.81		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	124056	78.9		Pass
175	5.0 - 9.0% of mass 174	9400	5.98	(7.58) [a]	Pass
176	95.0 - 101.0% of mass 174	121693	77.4	(98.1) [a]	Pass
177	5.0 - 9.0% of mass 176	7772	4.94	(6.39) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V4D3063-CC3034	4D69910.D	07/09/16	10:48	00:33	Continuing cal 20
V4D3063-MB	4D69912.D	07/09/16	11:52	01:37	Method Blank
V4D3063-BS	4D69913.D	07/09/16	12:21	02:06	Blank Spike
JC23588-1	4D69915.D	07/09/16	13:18	03:03	MW-1
JC23588-5	4D69916.D	07/09/16	13:46	03:31	MW-6
JC23588-7	4D69917.D	07/09/16	14:14	03:59	MW-8
JC23588-2	4D69918.D	07/09/16	14:42	04:27	MW-3
JC23588-3	4D69919.D	07/09/16	15:10	04:55	MW-4R
JC23588-4	4D69920.D	07/09/16	15:38	05:23	MW-5
JC23588-1MS	4D69921.D	07/09/16	16:07	05:52	Matrix Spike
JC23588-5DUP	4D69923.D	07/09/16	17:04	06:49	Duplicate
ZZZZZZ	4D69924.D	07/09/16	17:32	07:17	(unrelated sample)
ZZZZZZ	4D69925.D	07/09/16	18:00	07:45	(unrelated sample)
ZZZZZZ	4D69926.D	07/09/16	18:28	08:13	(unrelated sample)
ZZZZZZ	4D69927.D	07/09/16	18:57	08:42	(unrelated sample)
ZZZZZZ	4D69928.D	07/09/16	19:25	09:10	(unrelated sample)
ZZZZZZ	4D69929.D	07/09/16	19:54	09:39	(unrelated sample)
ZZZZZZ	4D69930.D	07/09/16	20:22	10:07	(unrelated sample)
ZZZZZZ	4D69931.D	07/09/16	20:50	10:35	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample: V4D3064-BFB
Lab File ID: 4D69935.D
Instrument ID: GCMS4D
Injection Date: 07/11/16
Injection Time: 10:34

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	17527	16.6		Pass
75	30.0 - 60.0% of mass 95	47365	44.9		Pass
95	Base peak, 100% relative abundance	105384	100.0		Pass
96	5.0 - 9.0% of mass 95	7099	6.74		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	89293	84.7		Pass
175	5.0 - 9.0% of mass 174	7074	6.71	(7.92) [a]	Pass
176	95.0 - 101.0% of mass 174	85427	81.1	(95.7) [a]	Pass
177	5.0 - 9.0% of mass 176	5477	5.20	(6.41) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V4D3064-CC3034	4D69936.D	07/11/16	11:12	00:38	Continuing cal 20
V4D3064-CC3034	4D69937.D	07/11/16	11:47	01:13	Continuing cal 1
V4D3064-MB	4D69938.D	07/11/16	12:15	01:41	Method Blank
V4D3064-BS	4D69939.D	07/11/16	12:44	02:10	Blank Spike
ZZZZZZ	4D69940.D	07/11/16	13:23	02:49	(unrelated sample)
JC23340-4	4D69942.D	07/11/16	14:01	03:27	(used for QC only; not part of job JC23588)
JC23340-7	4D69943.D	07/11/16	14:30	03:56	(used for QC only; not part of job JC23588)
ZZZZZZ	4D69943A.D	07/11/16	14:58	04:24	(unrelated sample)
ZZZZZZ	4D69944.D	07/11/16	15:27	04:53	(unrelated sample)
ZZZZZZ	4D69946.D	07/11/16	16:23	05:49	(unrelated sample)
ZZZZZZ	4D69947.D	07/11/16	16:51	06:17	(unrelated sample)
ZZZZZZ	4D69947A.D	07/11/16	17:20	06:46	(unrelated sample)
JC23340-4MS	4D69948.D	07/11/16	17:48	07:14	Matrix Spike
JC23340-7DUP	4D69950.D	07/11/16	18:45	08:11	Duplicate
ZZZZZZ	4D69951.D	07/11/16	19:13	08:39	(unrelated sample)
ZZZZZZ	4D69952.D	07/11/16	19:40	09:06	(unrelated sample)
ZZZZZZ	4D69953.D	07/11/16	20:09	09:35	(unrelated sample)
JC23588-6	4D69954.D	07/11/16	20:37	10:03	MW-7
JC23588-8	4D69955.D	07/11/16	21:05	10:31	MW-9
JC23588-9	4D69956.D	07/11/16	21:34	11:00	MW-10R

Volatile Internal Standard Area Summary

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Check Std:	V4D3063-CC3034	**Injection Date:**	07/09/16
Lab File ID:	4D69910.D	**Injection Time:**	10:48
Instrument ID:	GCMS4D	**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	260838	7.47	326748	10.01	524705	10.96	477286	14.32	242312	16.72
Upper Limit [a]	521676	7.97	653496	10.51	1049410	11.46	954572	14.82	484624	17.22
Lower Limit [b]	130419	6.97	163374	9.51	262353	10.46	238643	13.82	121156	16.22

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V4D3063-MB	273973	7.47	341011	10.02	549605	10.96	505723	14.32	249177	16.72
V4D3063-BS	242908	7.48	311083	10.01	488960	10.96	453678	14.32	227848	16.72
JC23588-1	283094	7.47	340044	10.02	549250	10.96	505587	14.32	250927	16.72
JC23588-5	277860	7.48	337846	10.02	543526	10.96	498155	14.32	248008	16.72
JC23588-7	258562	7.48	326197	10.02	528537	10.96	482428	14.32	244301	16.72
JC23588-2	270471	7.48	329795	10.02	525063	10.96	479256	14.32	241687	16.72
JC23588-3	288575	7.47	348373	10.02	554817	10.96	515041	14.32	253542	16.72
JC23588-4	272443	7.48	335845	10.02	538022	10.96	497074	14.32	251460	16.72
JC23588-1MS	269138	7.48	327153	10.02	507994	10.96	477925	14.32	236413	16.72
JC23588-5DUP	283433	7.48	337364	10.02	542760	10.96	499622	14.32	247117	16.72
ZZZZZZ	295120	7.48	347015	10.02	559743	10.96	517234	14.32	252541	16.72
ZZZZZZ	276385	7.48	336532	10.02	535913	10.96	492283	14.32	239341	16.72
ZZZZZZ	272797	7.48	331456	10.02	532082	10.96	492177	14.32	241484	16.72
ZZZZZZ	288834	7.48	339224	10.02	540135	10.96	496117	14.32	242029	16.72
ZZZZZZ	273083	7.48	329690	10.02	523969	10.96	486460	14.32	239362	16.72
ZZZZZZ	274836	7.47	335878	10.02	529587	10.96	495284	14.32	238270	16.72
ZZZZZZ	276099	7.47	336035	10.02	529615	10.96	488413	14.32	227826	16.72
ZZZZZZ	278356	7.47	337917	10.02	522434	10.96	496654	14.32	247110	16.72

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

(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: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Check Std:	V4D3064-CC3034	**Injection Date:**	07/11/16
Lab File ID:	4D69936.D	**Injection Time:**	11:12
Instrument ID:	GCMS4D	**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	169697	7.47	219810	10.01	332518	10.96	306187	14.32	164178	16.72
Upper Limit [a]	339394	7.97	439620	10.51	665036	11.46	612374	14.82	328356	17.22
Lower Limit [b]	84849	6.97	109905	9.51	166259	10.46	153094	13.82	82089	16.22

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V4D3064-MB	163873	7.48	224248	10.02	342502	10.96	311008	14.32	157300	16.72
V4D3064-BS	155060	7.48	208316	10.02	315707	10.96	291563	14.32	152163	16.72
ZZZZZZ	187881	7.47	240762	10.01	370593	10.96	336257	14.32	176944	16.72
JC23340-4	175187	7.48	227428	10.01	352625	10.96	323666	14.32	171056	16.72
JC23340-7	166133	7.48	221438	10.02	343122	10.96	316299	14.32	164857	16.72
ZZZZZZ	152660	7.47	219877	10.02	335160	10.96	306934	14.32	155122	16.72
ZZZZZZ	168422	7.47	226538	10.02	349624	10.96	314546	14.32	160372	16.72
ZZZZZZ	194566	7.48	243322	10.02	377709	10.96	338862	14.32	169319	16.72
ZZZZZZ	172680	7.48	226281	10.02	352080	10.96	315567	14.32	159335	16.72
ZZZZZZ	168930	7.48	217244	10.02	337389	10.96	308766	14.32	156410	16.72
JC23340-4MS	163828	7.48	210674	10.02	321446	10.96	297915	14.32	153882	16.72
JC23340-7DUP	163497	7.48	218347	10.02	338268	10.96	306928	14.32	151153	16.72
ZZZZZZ	163202	7.48	222271	10.02	341072	10.96	308586	14.32	150852	16.72
ZZZZZZ	165029	7.48	221897	10.02	340035	10.96	306324	14.32	151096	16.72
ZZZZZZ	163620	7.48	220922	10.02	346358	10.96	309831	14.32	154469	16.72
JC23588-6	172069	7.48	224752	10.02	349527	10.96	313252	14.32	160199	16.72
JC23588-8	168405	7.48	221140	10.02	340585	10.96	309038	14.32	160023	16.72
JC23588-9	164350	7.48	223353	10.02	343540	10.96	315340	14.32	160909	16.72

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

(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: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

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

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JC23588-1	4D69915.D	98	97	103	106
JC23588-2	4D69918.D	99	98	103	107
JC23588-3	4D69919.D	98	96	104	107
JC23588-4	4D69920.D	100	98	104	106
JC23588-5	4D69916.D	99	97	102	106
JC23588-6	4D69954.D	95	92	102	102
JC23588-7	4D69917.D	100	98	103	105
JC23588-8	4D69955.D	94	92	101	101
JC23588-9	4D69956.D	94	91	103	102
JC23340-4MS	4D69948.D	93	88	103	99
JC23340-7DUP	4D69950.D	94	92	102	102
JC23588-1MS	4D69921.D	96	90	105	104
JC23588-5DUP	4D69923.D	99	97	103	106
V4D3063-BS	4D69913.D	97	92	104	105
V4D3063-MB	4D69912.D	99	97	103	107
V4D3064-BS	4D69939.D	93	87	103	97
V4D3064-MB	4D69938.D	93	90	101	102

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	76-120%
S2 = 1,2-Dichloroethane-D4	73-122%
S3 = Toluene-D8	84-119%
S4 = 4-Bromofluorobenzene	78-117%

Initial Calibration Summary

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample: V4D3034-ICC3034
Lab FileID: 4D69043.D

Response Factor Report MS4D

```
Method       : C:\MSDCHEM\1\METHODS\M4D3034.M (RTE Integrator)
Title        : METHOD SW-846 8260C , DB-624 60m x 0.25mm x 1.4 um
Last Update  : Wed Jun 08 14:35:03 2016
Response via : Initial Calibration

Calibration Files
10  =4D69041.D   0.5 =4D69037.D   5   =4D69040.D   50  =4D69043.D
100 =4D69044.D   1   =4D69038.D   200 =4D69045.D   20  =4D69042.D
2   =4D69039.D   0.2 =4D69036.D       =                =

Compound
        10    0.5   5     50    100   1     200   20    2     0.2    Avg   %RSD
-------------------------------------------------------------------------------

1) I   Tert Butyl Alcohol-d9 ----------------ISTD---------------------
2)  1,4-dioxane
     0.134       0.135 0.137 0.131       0.134 0.132 0.090        0.127   13.18
3)  tertiary butyl alcohol
     1.417       1.489 1.447 1.364       1.406 1.403 1.002        1.361   11.97

4) I   pentafluorobenzene    ----------------ISTD---------------------
5)  freon 143a
                                                                  0.000#  -1.00
6)  chlorodifluoromethane
     0.580       0.659 0.663 0.603       0.636 0.602 0.430        0.596   13.32
7)  dichlorodifluoromethane
     0.616       0.671 0.772 0.670       0.721 0.687 0.423        0.651   17.17
8)  freon 142b
                                                                  0.000#  -1.00
9)  chloromethane
     0.711 0.882 0.821 0.826 0.748 0.767 0.774 0.764 0.628        0.769    9.46
10)  vinyl chloride
     0.726 0.658 0.830 0.876 0.782 0.700 0.810 0.798 0.590        0.752   12.10
11)  acetaldehyde
                                                                  0.000#  -1.00
12)  bromomethane
     0.541       0.631 0.578 0.453 0.632       0.574 0.510        0.560   11.52
13)  chloroethane
     0.389 0.311 0.445 0.440 0.389 0.408 0.328 0.420 0.342        0.386   12.59
14)  trichlorofluoromethane
     0.865       0.957 1.032 0.900 0.782 0.939 0.958 0.675        0.888   12.76
15)  vinyl bromide
                                                                  0.000#  -1.00
16)  freon 141b
                                                                  0.000#  -1.00
17)  ethyl ether
     0.340       0.346 0.347 0.330 0.241 0.338 0.329 0.240        0.314   14.55
18)  pentane
                                                                  0.000#  -1.00
19)  2-chloropropane
     0.978 0.886 1.104 1.039 0.938 0.922 0.973 0.978 0.856 1.001  0.968    7.48
20)  acrolein
     0.168       0.184 0.173 0.159 0.155       0.168 0.113        0.160   14.16
21)  1,1-dichloroethene
     0.928 0.699 1.051 1.006 0.907 0.784 0.944 0.940 0.745        0.889   13.49
22)  acetone
     0.068       0.066 0.073 0.067       0.069 0.067 0.069        0.069    3.17
23)  allyl chloride
```

Initial Calibration Summary

Job Number: JC23588 **Sample:** V4D3034-ICC3034
Account: PILOTSS Pilot Travel Centers LLC **Lab FileID:** 4D69043.D
Project: SCNJCH: #290, Heather Lane, Perryville, MD

```
      0.350       0.388 0.348 0.325 0.252 0.332 0.348 0.260        0.325   14.38
24)  acetonitrile
      0.050       0.050 0.050 0.046       0.046 0.048              0.049    4.30
25)  iodomethane
      1.148 0.981 1.270 1.201 1.096 0.929 1.121 1.139 0.881        1.085   11.87
26)  iso-butyl alcohol
      0.034       0.036 0.035 0.031       0.032 0.034              0.034    5.07
27)  carbon disulfide
      2.046 1.953 2.313 2.182 1.961 1.743 2.011 2.039 1.624 2.490  2.036   12.38
28)  methylene chloride
      0.690 0.616 0.754 0.700 0.648 0.563 0.659 0.673 0.540        0.649   10.37
29)  1-chloropropane
                                                                   0.000#  -1.00
30)  methyl acetate
      0.132       0.134 0.136 0.129       0.131 0.130              0.132    2.09
31)  methyl tert butyl ether
      1.998 1.713 2.124 2.009 1.865 1.498 1.872 1.933 1.414 1.523  1.795   13.64
32)  trans-1,2-dichloroethene
      0.930 0.812 1.043 0.964 0.886 0.755 0.899 0.915 0.741        0.883   11.11
33)  di-isopropyl ether
      1.938 1.527 2.076 2.057 1.905 1.581 1.947 1.947 1.425 1.611  1.801   13.27
34)  ethyl tert-butyl ether
      1.949 1.494 2.063 2.073 1.931 1.532 1.966 1.952 1.445 1.510  1.791   14.52
35)  2-butanone
      0.091       0.091 0.096 0.092       0.093 0.089              0.092    2.70
36)  1,1-dichloroethane
      1.170 0.970 1.258 1.190 1.103 0.877 1.123 1.142 0.898        1.081   12.44
37)  chloroprene
      0.808       0.897 0.896 0.824 0.638 0.856 0.831 0.611        0.795   13.88
38)  acrylonitrile
      0.297       0.310 0.298 0.278 0.208 0.282 0.284 0.174        0.266   18.19
39)  vinyl acetate
      0.111       0.113 0.123 0.115       0.119 0.114              0.116    3.79
40)  ethyl acetate
      0.111       0.111 0.115 0.107       0.108 0.108              0.110    2.76
41)  2,2-dichloropropane
      0.947 0.856 1.070 0.957 0.856 0.828 0.845 0.927 0.766 0.800  0.885   10.16
42)  cis-1,2-dichloroethene
      0.729 0.738 0.810 0.734 0.679 0.678 0.687 0.704 0.597 0.643  0.700    8.29
43)  propionitrile
      0.124       0.124 0.121 0.113       0.114 0.117 0.070        0.112   16.91
44)  methyl acrylate
      0.119       0.118 0.123 0.117       0.119 0.116              0.119    2.03
45)  bromochloromethane
      0.376       0.405 0.374 0.347 0.267 0.352 0.365 0.295        0.348   13.05
46)  tetrahydrofuran
      0.283       0.329 0.249 0.229       0.231 0.245 0.302        0.267   14.45
47)  chloroform
      1.202 1.076 1.317 1.220 1.125 0.970 1.142 1.174 0.966        1.132   10.15
48)  dibromofluoromethane (s)
      0.559 0.560 0.565 0.558 0.556 0.560 0.556 0.565 0.561 0.559  0.560    0.56
49)  1,2-dichloroethane-d4 (s)
      0.623 0.631 0.621 0.628 0.623 0.632 0.618 0.627 0.615 0.631  0.625    0.94
50)  freon 113
      0.362       0.407 0.418 0.359       0.380 0.381 0.246        0.365   15.53
51)  methacrylonitrile
      0.320       0.332 0.331 0.310       0.320 0.311              0.321    3.00
52)  1,1,1-trichloroethane
      0.957 0.786 1.084 1.009 0.907 0.779 0.938 0.949 0.766        0.909   12.17
53)  tert-amyl methyl ether
```

```
      1.961 1.660 2.082 2.041 1.879 1.678 1.908 1.960 1.465 1.805  1.844   10.46

54) I   1,4-difluorobenzene   ----------------ISTD--------------------
55)  epichlorohydrin
      0.054       0.057 0.055 0.052       0.053 0.052              0.054    3.67
56)  n-butyl alcohol
      0.018       0.018 0.019 0.017       0.018 0.018              0.018    2.36
57)  cyclohexane
      0.496       0.561 0.525 0.459 0.409 0.470 0.496 0.422        0.480   10.55
58)  tert amyl alcohol
                                                                   0.000#  -1.00
59)  carbon tetrachloride
      0.592 0.457 0.660 0.611 0.547 0.473 0.558 0.581 0.477        0.551   12.59
60)  1,1-dichloropropene
      0.538 0.418 0.598 0.553 0.499 0.442 0.513 0.524 0.436        0.503   11.90
61)  hexane
      0.351       0.397 0.394 0.336 0.266 0.362 0.369 0.270        0.343   14.79
62)  benzene
      1.581 1.441 1.753 1.587 1.461 1.320 1.470 1.536 1.304 1.368  1.482    9.28
63)  ISO-OCTANE
      1.212       1.320 1.306 1.123       1.182 1.236 0.877        1.179   12.71
64)  heptane
      0.226       0.251 0.247 0.213       0.227 0.231 0.172        0.224   11.78
65)  isopropyl acetate
      0.924       0.963 0.931 0.872       0.888 0.887              0.911    3.75
66)  1,2-dichloroethane
      0.639 0.520 0.682 0.626 0.580 0.506 0.576 0.614 0.502        0.583   10.88
67)  trichloroethene
      0.427 0.359 0.461 0.441 0.409 0.371 0.422 0.418 0.357        0.407    9.10
68)  ethyl acrylate
                                                                   0.000#  -1.00
69)  2-nitropropane
      0.144       0.153 0.142 0.134       0.137 0.136 0.098        0.135   12.84
70)  2-chloroethyl vinyl ether
      0.315       0.326 0.326 0.301 0.249 0.302 0.309 0.214        0.293   13.69
71)  methyl methacrylate
      0.119       0.121 0.120 0.115       0.118 0.112              0.117    3.02
72)  1,2-dichloropropane
      0.426 0.323 0.456 0.431 0.403 0.344 0.412 0.411 0.348        0.395   11.52
73)  methylcyclohexane
      0.536       0.582 0.593 0.514       0.545 0.551 0.388        0.530   12.86
74)  tert-amyl ethyl ether
                                                                   0.000#  -1.00
75)  dibromomethane
      0.325 0.249 0.355 0.323 0.302 0.261 0.305 0.317 0.252        0.299   12.40
76)  bromodichloromethane
      0.613 0.494 0.661 0.624 0.588 0.478 0.605 0.593 0.481        0.571   11.94
77)  cis-1,3-dichloropropene
      0.700 0.617 0.750 0.706 0.666 0.575 0.685 0.675 0.564 0.521  0.646   11.35
78)  toluene-d8 (s)
      1.149 1.154 1.155 1.156 1.158 1.146 1.167 1.155 1.145 1.136  1.152    0.74
79)  4-methyl-2-pentanone
      0.213       0.212 0.209 0.199       0.200 0.197 0.132        0.195   14.49
80)  toluene
      0.956 0.807 1.048 0.978 0.897 0.838 0.919 0.921 0.823 0.728  0.891   10.52
81)  3-methyl-1-butanol
      0.016       0.016 0.017 0.016       0.016 0.016 0.010        0.015   17.03
82)  trans-1,3-dichloropropene
      0.681 0.554 0.737 0.680 0.638 0.570 0.658 0.652 0.566 0.572  0.631    9.83
83)  ethyl methacrylate
```

Initial Calibration Summary

Job Number: JC23588 **Sample:** V4D3034-ICC3034
Account: PILOTSS Pilot Travel Centers LLC **Lab FileID:** 4D69043.D
Project: SCNJCH: #290, Heather Lane, Perryville, MD

```
       0.558       0.589 0.585 0.556 0.427 0.576 0.548 0.415        0.532   13.14
 84)  1,1,2-trichloroethane
       0.366 0.291 0.390 0.366 0.343 0.299 0.350 0.348 0.287        0.338   10.95
 85)  2-hexanone
       0.201       0.205 0.201 0.190       0.191 0.190 0.126        0.186   14.69

 86) I   chlorobenzene-d5      ----------------ISTD---------------------
 87)  tetrachloroethene
       0.483 0.380 0.526 0.486 0.444 0.418 0.447 0.464 0.408        0.451    9.95
 88)  1,3-dichloropropane
       0.730 0.624 0.771 0.721 0.669 0.630 0.677 0.691 0.584        0.678    8.66
 89)  butyl acetate
       0.362       0.360 0.362 0.341 0.333 0.345 0.342 0.243        0.336   11.69
 90)  dibromochloromethane
       0.571 0.423 0.585 0.577 0.544 0.439 0.553 0.540 0.431        0.518   12.94
 91)  1,2-dibromoethane
       0.523 0.435 0.544 0.514 0.485 0.419 0.491 0.490 0.395        0.477   10.53
 92)  n-Butyl Ether
       1.677 1.430 1.813 1.738 1.606 1.619 1.636 1.626 1.559 1.322  1.603    8.84
 93)  chlorobenzene
       1.232 1.071 1.337 1.229 1.126 1.102 1.129 1.172 1.075 1.018  1.149    8.26
 94)  1,1,1,2-tetrachloroethane
       0.494 0.363 0.520 0.500 0.456 0.439 0.459 0.472 0.419        0.458   10.36
 95)  ethylbenzene
       2.072 1.785 2.229 2.095 1.906 1.867 1.927 1.972 1.802 1.715  1.937    8.19
 96)  m,p-xylene
       0.791 0.668 0.839 0.788 0.716 0.701 0.707 0.753 0.676 0.596  0.724    9.81
 97)  o-xylene
       1.701 1.473 1.837 1.712 1.583 1.513 1.577 1.624 1.471 1.342  1.583    9.05
 98)  styrene
       1.313 1.013 1.377 1.338 1.248 1.089 1.229 1.253 1.052        1.212   10.79
 99)  butyl acrylate
                                                                    0.000#  -1.00
100)  bromoform
       0.420       0.426 0.431 0.413 0.320 0.421 0.398 0.302        0.391   12.95

101) I   1,4-dichlorobenzene-d ----------------ISTD---------------------
102)  isopropylbenzene
       3.816 3.208 4.124 3.917 3.624 3.362 3.701 3.675 3.223 2.880  3.553   10.64
103)  4-bromofluorobenzene (s)
       0.977 0.966 0.974 0.974 0.985 0.971 0.988 0.963 0.966 0.972  0.974    0.82
104)  bromobenzene
       1.091 0.898 1.160 1.067 1.005 0.950 1.015 1.011 0.936 0.953  1.009    7.88
105)  cyclohexanone
       0.046       0.045 0.043 0.041       0.042 0.041              0.043    5.19
106)  1,1,2,2-tetrachloroethane
       1.464 1.164 1.537 1.410 1.324 1.214 1.344 1.357 1.027        1.316   11.99
107)  trans-1,4-dichloro-2-butene
       0.285       0.283 0.303 0.301       0.313 0.275              0.293    4.89
108)  1,2,3-trichloropropane
       0.366       0.382 0.346 0.326       0.330 0.339 0.248        0.334   12.79
109)  n-propylbenzene
       4.590 3.883 5.010 4.641 4.265 4.083 4.325 4.380 3.926 3.831  4.293    8.83
110)  2-chlorotoluene
       0.976 0.794 1.052 0.984 0.905 0.831 0.917 0.931 0.826        0.913    9.25
111)  4-chlorotoluene
       2.957 2.695 3.192 2.911 2.718 2.654 2.754 2.778 2.529 2.737  2.793    6.64
112)  1,3,5-trimethylbenzene
       3.294 2.718 3.545 3.358 3.108 2.747 3.138 3.164 2.723 2.487  3.028   11.25
113)  tert-butylbenzene
```

Initial Calibration Summary

Job Number: JC23588 **Sample:** V4D3034-ICC3034
Account: PILOTSS Pilot Travel Centers LLC **Lab FileID:** 4D69043.D
Project: SCNJCH: #290, Heather Lane, Perryville, MD

```
       0.598       0.662 0.621 0.572 0.478 0.576 0.566 0.479        0.569   11.24
114)  pentachloroethane
       0.677 0.472 0.697 0.671 0.628 0.534 0.632 0.635 0.533        0.609   12.73
115)  1,2,4-trimethylbenzene
       3.437 2.859 3.697 3.410 3.181 2.895 3.199 3.266 2.729 2.769  3.144   10.26
116)  sec-butylbenzene
       4.276 3.478 4.613 4.363 4.021 3.550 4.101 4.093 3.456 3.215  3.916   11.79
117)  1,3-dichlorobenzene
       2.053 1.736 2.179 2.004 1.856 1.746 1.864 1.894 1.653 1.764  1.875    8.69
118)  p-isopropyltoluene
       3.507 2.887 3.818 3.607 3.300 2.923 3.354 3.373 2.820 2.933  3.252   10.59
119)  1,4-dichlorobenzene
       2.062 1.726 2.184 2.007 1.867 1.753 1.893 1.923 1.678 1.951  1.904    8.28
120)  1,2-dichlorobenzene
       1.994 1.672 2.150 1.969 1.845 1.685 1.866 1.901 1.579 1.699  1.836    9.63
121)  n-butylbenzene
       1.903 1.559 2.069 1.974 1.827 1.530 1.873 1.841 1.505 1.444  1.753   12.66
122)  1,2-dibromo-3-chloropropane
       0.318       0.313 0.319 0.309       0.320 0.296 0.185        0.294   16.57
123)  1,3,5-trichlorobenzene
       1.519 1.305 1.601 1.559 1.468 1.202 1.484 1.450 1.133        1.413   11.53
124)  1,2,4-trichlorobenzene
       1.345       1.373 1.409 1.347 1.001 1.362 1.283 0.941        1.258   14.39
125)  hexachlorobutadiene
       0.722 0.549 0.767 0.740 0.692 0.590 0.703 0.685 0.552        0.667   12.28
126)  naphthalene
       3.452       3.491 3.626 3.460       3.474 3.298              3.467    3.02
127)  1,2,3-trichlorobenzene
       1.227       1.258 1.266 1.198 0.874 1.211 1.170 0.827        1.129   15.50
128)  hexachloroethane
       0.736 0.691 0.795 0.785 0.741 0.606 0.768 0.718 0.589 0.688  0.712    9.88
129)  Benzyl chloride
       2.571 2.272 2.694 2.634 2.482 2.694 2.509 2.502 1.848 3.002  2.521   12.01
 ------------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           M4D3034.M         Wed Jun 08 14:36:33 2016   RPT1
```

Initial Calibration Verification

Job Number: JC23588 **Sample:** V4D3034-ICV3034
Account: PILOTSS Pilot Travel Centers LLC **Lab FileID:** 4D69048.D
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\4D69048.D Vial: 14
Acq On : 6 Jun 2016 10:59 pm Operator: XimenaC
Sample : ICV3034-50 Inst : MS4D
Misc : MS2218,V4D3034,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M4D3034.M (RTE Integrator)
Title : METHOD SW-846 8260C , DB-624 60m x 0.25mm x 1.4 um
Last Update : Wed Jun 08 14:35:03 2016
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% 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	7.49
2		1,4-dioxane	0.127	0.127	0.0	95	0.00	11.71
3	M	tertiary butyl alcohol	1.361	1.340	1.5	96	0.00	7.62
4	I	pentafluorobenzene	1.000	1.000	0.0	106	0.00	10.02
5		freon 143a		----------NA----------				
6		chlorodifluoromethane	0.596	0.555	6.9	89	0.00	3.72
7		dichlorodifluoromethane	0.651	0.650	0.2	90	0.00	3.71
8		freon 142b		----------NA----------				
9		chloromethane	0.769	0.826	-7.4	106	0.00	4.06
10		vinyl chloride	0.752	0.740	1.6	90	0.00	4.33
11		acetaldehyde		----------NA----------				
12		bromomethane	0.560	0.534	4.6	98	0.00	5.03
13		chloroethane	0.386	0.420	-8.8	102	0.00	5.23
14		trichlorofluoromethane	0.888	0.877	1.2	90	0.00	5.79
15		vinyl bromide		----------NA----------				
16		freon 141b		----------NA----------				
17		ethyl ether	0.314	0.338	-7.6	103	0.00	6.27
18		pentane		----------NA----------				
19		2-chloropropane	0.968	0.986	-1.9	101	0.00	6.46
20		acrolein	0.160	0.183	-14.4	112	0.00	6.48
21		1,1-dichloroethene	0.889	0.955	-7.4	101	0.00	6.71
22		acetone	0.069	0.072	-4.3	105	0.00	6.74
23		allyl chloride	0.325	0.337	-3.7	103	0.00	7.31
24		acetonitrile	0.049	0.045	8.2	96	0.00	7.20
25		iodomethane	1.085	1.148	-5.8	102	0.00	6.99
26		iso-butyl alcohol	0.034	0.032	5.9	98	0.00	10.30
27		carbon disulfide	2.036	2.079	-2.1	101	0.00	7.13
28		methylene chloride	0.649	0.682	-5.1	104	0.00	7.50
29		1-chloropropane		----------NA----------				
30		methyl acetate	0.132	0.122	7.6	95	0.00	7.31
31		methyl tert butyl ether	1.795	1.935	-7.8	103	0.00	7.96
32		trans-1,2-dichloroethene	0.883	0.905	-2.5	100	0.00	7.96
33		di-isopropyl ether	1.801	1.916	-6.4	99	0.00	8.67
34		ethyl tert-butyl ether	1.791	1.924	-7.4	99	0.00	9.18
35		2-butanone	0.092	0.095	-3.3	105	0.00	9.38
36	M	1,1-dichloroethane	1.081	1.140	-5.5	102	0.00	8.59
37		chloroprene	0.795	0.833	-4.8	99	0.00	8.73
38		acrylonitrile	0.266	0.300	-12.8	107	0.00	7.85
39		vinyl acetate	0.116	0.115	0.9	100	0.00	8.61
40		ethyl acetate	0.110	0.105	4.5	96	0.00	9.43
41		2,2-dichloropropane	0.885	0.872	1.5	97	0.00	9.43

Initial Calibration Verification

Job Number: JC23588 **Sample:** V4D3034-ICV3034
Account: PILOTSS Pilot Travel Centers LLC **Lab FileID:** 4D69048.D
Project: SCNJCH: #290, Heather Lane, Perryville, MD

42		cis-1,2-dichloroethene	0.700	0.704	-0.6	102	0.00	9.40
43		propionitrile	0.112	0.121	-8.0	106	0.00	9.44
44		methyl acrylate	0.119	0.124	-4.2	107	0.00	9.51
45		bromochloromethane	0.348	0.366	-5.2	104	0.00	9.72
46		tetrahydrofuran	0.267	0.242	9.4	103	0.00	9.80
47		chloroform	1.132	1.216	-7.4	106	0.00	9.80
48	S	dibromofluoromethane (s)	0.560	0.562	-0.4	107	0.00	10.01
49	S	1,2-dichloroethane-d4 (s)	0.625	0.623	0.3	105	0.00	10.46
50		freon 113	0.365	0.409	-12.1	104	0.00	6.72
51		methacrylonitrile	0.321	0.317	1.2	102	0.00	9.66
52		1,1,1-trichloroethane	0.909	0.989	-8.8	104	0.00	10.10
53		tert-amyl methyl ether	1.844	1.847	-0.2	96	0.00	10.66
54	I	1,4-difluorobenzene	1.000	1.000	0.0	105	0.00	10.97
55		epichlorohydrin	0.054	0.051	5.6	97	0.00	12.26
56		n-butyl alcohol	0.018	0.017	5.6	95	0.00	11.10
57	M	cyclohexane	0.480	0.485	-1.0	97	0.00	10.21
58		tert amyl alcohol		----------NA----------				
59		carbon tetrachloride	0.551	0.580	-5.3	100	0.00	10.33
60		1,1-dichloropropene	0.503	0.554	-10.1	106	0.00	10.30
61		hexane	0.343	0.352	-2.6	94	0.00	8.39
62	M	benzene	1.482	1.551	-4.7	103	0.00	10.57
63		ISO-OCTANE	1.179	1.136	3.6	92	0.00	10.66
64		heptane	0.224	0.217	3.1	92	0.00	10.84
65		isopropyl acetate	0.911	0.863	5.3	98	0.00	10.54
66		1,2-dichloroethane	0.583	0.612	-5.0	103	0.00	10.55
67		trichloroethene	0.407	0.428	-5.2	102	0.00	11.33
68		ethyl acrylate		----------NA----------				
69		2-nitropropane	0.135	0.142	-5.2	105	0.00	12.11
70		2-chloroethyl vinyl ether	0.293	0.311	-6.1	101	0.00	12.17
71		methyl methacrylate	0.117	0.117	0.0	103	0.00	11.64
72		1,2-dichloropropane	0.395	0.416	-5.3	102	0.00	11.59
73		methylcyclohexane	0.530	0.535	-0.9	95	0.00	11.60
74	M	tert-amyl ethyl ether		----------NA----------				
75		dibromomethane	0.299	0.311	-4.0	102	0.00	11.73
76		bromodichloromethane	0.571	0.601	-5.3	102	0.00	11.88
77		cis-1,3-dichloropropene	0.646	0.694	-7.4	104	0.00	12.39
78	S	toluene-d8 (s)	1.152	1.165	-1.1	106	0.00	12.72
79		4-methyl-2-pentanone	0.195	0.207	-6.2	105	0.00	12.52
80		toluene	0.891	0.946	-6.2	102	0.00	12.80
81		3-methyl-1-butanol	0.015	0.016	-6.7	96	0.00	12.53
82		trans-1,3-dichloropropene	0.631	0.652	-3.3	101	0.00	12.98
83		ethyl methacrylate	0.532	0.574	-7.9	103	0.00	13.03
84		1,1,2-trichloroethane	0.338	0.351	-3.8	101	0.00	13.20
85		2-hexanone	0.186	0.197	-5.9	103	0.00	13.43
86	I	chlorobenzene-d5	1.000	1.000	0.0	107	0.00	14.33
87		tetrachloroethene	0.451	0.468	-3.8	103	0.00	13.43
88		1,3-dichloropropane	0.678	0.686	-1.2	102	0.00	13.40
89		butyl acetate	0.336	0.347	-3.3	102	0.00	13.53
90		dibromochloromethane	0.518	0.547	-5.6	101	0.00	13.68
91		1,2-dibromoethane	0.477	0.488	-2.3	102	0.00	13.84
92		n-Butyl Ether	1.603	2.002	-24.9	123	0.00	14.35
93		chlorobenzene	1.149	1.191	-3.7	104	0.00	14.36
94		1,1,1,2-tetrachloroethane	0.458	0.476	-3.9	102	0.00	14.43
95		ethylbenzene	1.937	1.994	-2.9	102	0.00	14.45
96		m,p-xylene	0.724	0.753	-4.0	102	0.00	14.56
97		o-xylene	1.583	1.692	-6.9	106	0.00	15.00
98		styrene	1.212	1.280	-5.6	102	0.00	15.00
99		butyl acrylate		----------NA----------				

Initial Calibration Verification

Job Number: JC23588 **Sample:** V4D3034-ICV3034
Account: PILOTSS Pilot Travel Centers LLC **Lab FileID:** 4D69048.D
Project: SCNJCH: #290, Heather Lane, Perryville, MD

100		bromoform	0.391	0.406	-3.8	101	0.00	15.24
101	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	106	0.00	16.73
102		isopropylbenzene	3.553	3.691	-3.9	100	0.00	15.37
103	S	4-bromofluorobenzene (s)	0.974	0.970	0.4	106	0.00	15.55
104		bromobenzene	1.009	1.030	-2.1	102	0.00	15.75
105		cyclohexanone	0.043	0.039	9.3	96	0.00	15.49
106		1,1,2,2-tetrachloroethane	1.316	1.337	-1.6	101	0.00	15.63
107		trans-1,4-dichloro-2-bute	0.293	0.317	-8.2	111	0.00	15.68
108		1,2,3-trichloropropane	0.334	0.330	1.2	101	0.00	15.71
109		n-propylbenzene	4.293	4.536	-5.7	104	0.00	15.79
110		2-chlorotoluene	0.913	0.929	-1.8	100	0.00	15.92
111		4-chlorotoluene	2.793	2.811	-0.6	102	0.00	16.02
112		1,3,5-trimethylbenzene	3.028	3.228	-6.6	102	0.00	15.95
113		tert-butylbenzene	0.569	0.592	-4.0	101	0.00	16.30
114		pentachloroethane	0.609	0.654	-7.4	103	0.00	16.35
115		1,2,4-trimethylbenzene	3.144	3.354	-6.7	104	0.00	16.34
116		sec-butylbenzene	3.916	4.160	-6.2	101	0.00	16.52
117		1,3-dichlorobenzene	1.875	1.904	-1.5	101	0.00	16.67
118		p-isopropyltoluene	3.252	3.513	-8.0	103	0.00	16.64
119		1,4-dichlorobenzene	1.904	1.938	-1.8	102	0.00	16.75
120		1,2-dichlorobenzene	1.836	1.909	-4.0	103	0.00	17.13
121		n-butylbenzene	1.753	1.865	-6.4	100	0.00	17.04
122		1,2-dibromo-3-chloropropa	0.294	0.304	-3.4	101	0.00	17.85
123	m	1,3,5-trichlorobenzene	1.413	1.529	-8.2	104	0.00	18.05
124		1,2,4-trichlorobenzene	1.258	1.346	-7.0	101	0.00	18.64
125		hexachlorobutadiene	0.667	0.699	-4.8	100	0.00	18.77
126		naphthalene	3.467	3.381	2.5	99	0.00	18.90
127		1,2,3-trichlorobenzene	1.129	1.204	-6.6	101	0.00	19.14
128		hexachloroethane	0.712	0.753	-5.8	102	0.00	17.40
129		Benzyl chloride	2.521	2.243	11.0	90	0.00	16.86

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4D69043.D M4D3034.M Wed Jun 08 14:37:36 2016 RPT1

Continuing Calibration Summary

Job Number: JC23588 **Sample:** V4D3063-CC3034
Account: PILOTSS Pilot Travel Centers LLC **Lab FileID:** 4D69910.D
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\4D\V4D3063\4D69910.D Vial: 28
Acq On : 9 Jul 2016 10:48 am Operator: XimenaC
Sample : cc3034-20 Inst : MS4D
Misc : MS4090,V4D3063,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M4D3034.M (RTE Integrator)
Title : METHOD SW-846 8260C , DB-624 60m x 0.25mm x 1.4 um
Last Update : Tue Jul 12 08:25:41 2016
Response via : Multiple Level Calibration

Min. RRF : 0.010 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	166	-0.03	7.47
2		1,4-dioxane	0.127	0.126	0.8	159	-0.02	11.70
3	M	tertiary butyl alcohol	1.361	1.300	4.5	154	-0.02	7.60
4	I	pentafluorobenzene	1.000	1.000	0.0	161	-0.01	10.01
5		freon 143a		----------NA----------				
6		chlorodifluoromethane	0.596	0.685	-14.9	184	-0.02	3.71
7		dichlorodifluoromethane	0.651	0.720	-10.6	169	-0.02	3.70
8		freon 142b		----------NA----------				
9		chloromethane	0.769	0.792	-3.0	167	-0.02	4.05
10		vinyl chloride	0.752	0.757	-0.7	153	-0.01	4.33
11		acetaldehyde		----------NA----------				
12		bromomethane	0.560	0.522	6.8	147	-0.02	5.02
13		chloroethane	0.386	0.381	1.3	147	-0.01	5.23
14		trichlorofluoromethane	0.888	0.830	6.5	140	-0.01	5.78
15		vinyl bromide		----------NA----------				
16		freon 141b		----------NA----------				
17		ethyl ether	0.314	0.357	-13.7	175	-0.02	6.26
18		pentane		----------NA----------				
19		2-chloropropane	0.968	1.021	-5.5	169	-0.02	6.44
20		acrolein	0.160	0.175	-9.4	168	-0.02	6.47
21		1,1-dichloroethene	0.889	0.954	-7.3	164	-0.02	6.70
22		acetone	0.069	0.079	-14.5	190	-0.02	6.73
23		allyl chloride	0.325	0.358	-10.2	166	-0.01	7.29
24		acetonitrile	0.049	0.058	-18.4	194	-0.02	7.18
25		iodomethane	1.085	1.138	-4.9	161	-0.02	6.97
26		iso-butyl alcohol	0.034	0.035	-2.9	164	-0.02	10.28
27		carbon disulfide	2.036	2.249	-10.5	178	-0.02	7.12
28		methylene chloride	0.649	0.717	-10.5	172	-0.02	7.48
29		1-chloropropane		----------NA----------				
30		methyl acetate	0.132	0.139	-5.3	172	-0.02	7.28
31		methyl tert butyl ether	1.795	1.960	-9.2	164	-0.02	7.94
32		trans-1,2-dichloroethene	0.883	0.963	-9.1	170	-0.02	7.94
33		di-isopropyl ether	1.801	2.076	-15.3	172	-0.01	8.66
34		ethyl tert-butyl ether	1.791	2.039	-13.8	169	-0.01	9.17
35		2-butanone	0.092	0.102	-10.9	185	-0.02	9.36
36	M	1,1-dichloroethane	1.081	1.209	-11.8	171	-0.02	8.57
37		chloroprene	0.795	0.823	-3.5	160	-0.02	8.72
38		acrylonitrile	0.266	0.331	-24.4#	189	-0.02	7.83
39		vinyl acetate	0.116	0.113	2.6	160	-0.02	8.59
40		ethyl acetate	0.110	0.113	-2.7	168	-0.02	9.42
41		2,2-dichloropropane	0.885	0.918	-3.7	160	-0.01	9.42

Continuing Calibration Summary

Job Number: JC23588 **Sample:** V4D3063-CC3034
Account: PILOTSS Pilot Travel Centers LLC **Lab FileID:** 4D69910.D
Project: SCNJCH: #290, Heather Lane, Perryville, MD

42		cis-1,2-dichloroethene	0.700	0.721	-3.0	165	-0.02	9.39
43		propionitrile	0.112	0.135	-20.5#	187	-0.02	9.42
44		methyl acrylate	0.119	0.127	-6.7	176	-0.02	9.49
45		bromochloromethane	0.348	0.365	-4.9	162	-0.02	9.71
46		tetrahydrofuran	0.267	0.273	-2.2	180	-0.02	9.78
47		chloroform	1.132	1.148	-1.4	158	-0.02	9.79
48	S	dibromofluoromethane (s)	0.560	0.552	1.4	158	-0.02	9.99
49	S	1,2-dichloroethane-d4 (s)	0.625	0.597	4.5	154	-0.01	10.45
50		freon 113	0.365	0.397	-8.8	168	0.00	6.72
51		methacrylonitrile	0.321	0.351	-9.3	182	-0.02	9.65
52		1,1,1-trichloroethane	0.909	0.855	5.9	145	-0.01	10.09
53		tert-amyl methyl ether	1.844	1.917	-4.0	158	0.00	10.65
54	I	1,4-difluorobenzene	1.000	1.000	0.0	167	-0.02	10.96
55		epichlorohydrin	0.054	0.055	-1.9	176	-0.02	12.25
56		n-butyl alcohol	0.018	0.018	0.0	166	-0.02	11.09
57	M	cyclohexane	0.480	0.497	-3.5	168	-0.01	10.20
58		tert amyl alcohol		----------NA----------				
59		carbon tetrachloride	0.551	0.503	8.7	145	-0.01	10.32
60		1,1-dichloropropene	0.503	0.511	-1.6	163	-0.01	10.29
61		hexane	0.343	0.442	-28.9#	201#	-0.02	8.37
62	M	benzene	1.482	1.542	-4.0	168	-0.01	10.56
63		ISO-OCTANE	1.179	1.298	-10.1	176	0.00	10.65
64		heptane	0.224	0.231	-3.1	167	-0.01	10.83
65		isopropyl acetate	0.911	0.860	5.6	162	-0.02	10.52
66		1,2-dichloroethane	0.583	0.551	5.5	150	-0.02	10.54
67		trichloroethene	0.407	0.405	0.5	162	-0.01	11.32
68		ethyl acrylate		----------NA----------				
69		2-nitropropane	0.135	0.127	5.9	156	-0.01	12.10
70		2-chloroethyl vinyl ether	0.293	0.312	-6.5	169	0.00	12.16
71		methyl methacrylate	0.117	0.116	0.9	175	-0.01	11.63
72		1,2-dichloropropane	0.395	0.446	-12.9	182	0.00	11.58
73		methylcyclohexane	0.530	0.588	-10.9	179	-0.01	11.59
74	M	tert-amyl ethyl ether		----------NA----------				
75		dibromomethane	0.299	0.306	-2.3	162	-0.01	11.72
76		bromodichloromethane	0.571	0.572	-0.2	161	-0.01	11.87
77		cis-1,3-dichloropropene	0.646	0.713	-10.4	177	0.00	12.38
78	S	toluene-d8 (s)	1.152	1.180	-2.4	171	-0.01	12.71
79		4-methyl-2-pentanone	0.195	0.227	-16.4	193	-0.01	12.51
80		toluene	0.891	0.936	-5.1	170	-0.01	12.79
81		3-methyl-1-butanol	0.015	0.016	-6.7	161	-0.01	12.52
82		trans-1,3-dichloropropene	0.631	0.660	-4.6	169	0.00	12.97
83		ethyl methacrylate	0.532	0.587	-10.3	179	-0.01	13.02
84		1,1,2-trichloroethane	0.338	0.369	-9.2	177	-0.01	13.19
85		2-hexanone	0.186	0.215	-15.6	189	-0.01	13.42
86	I	chlorobenzene-d5	1.000	1.000	0.0	167	0.00	14.32
87		tetrachloroethene	0.451	0.436	3.3	156	0.00	13.42
88		1,3-dichloropropane	0.678	0.738	-8.8	178	-0.01	13.39
89		butyl acetate	0.336	0.379	-12.8	184	-0.01	13.52
90		dibromochloromethane	0.518	0.532	-2.7	164	-0.01	13.66
91		1,2-dibromoethane	0.477	0.500	-4.8	170	-0.01	13.83
92		n-Butyl Ether	1.603	1.813	-13.1	186	0.00	14.34
93		chlorobenzene	1.149	1.186	-3.2	169	-0.01	14.35
94		1,1,1,2-tetrachloroethane	0.458	0.453	1.1	160	-0.01	14.41
95		ethylbenzene	1.937	1.966	-1.5	166	-0.01	14.44
96		m,p-xylene	0.724	0.741	-2.3	164	0.00	14.56
97		o-xylene	1.583	1.614	-2.0	166	-0.01	14.99
98		styrene	1.212	1.258	-3.8	167	0.00	15.00
99		butyl acrylate		----------NA----------				

Continuing Calibration Summary

Job Number: JC23588 **Sample:** V4D3063-CC3034
Account: PILOTSS Pilot Travel Centers LLC **Lab FileID:** 4D69910.D
Project: SCNJCH: #290, Heather Lane, Perryville, MD

100		bromoform	0.391	0.399	-2.0	167	-0.01	15.23
101	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	157	-0.01	16.72
102		isopropylbenzene	3.553	3.821	-7.5	163	0.00	15.36
103	S	4-bromofluorobenzene (s)	0.974	1.012	-3.9	165	0.00	15.54
104		bromobenzene	1.009	1.052	-4.3	163	-0.01	15.74
105		cyclohexanone	0.043	0.065	-51.2#	249#	-0.01	15.48
106		1,1,2,2-tetrachloroethane	1.316	1.528	-16.1	177	-0.01	15.63
107		trans-1,4-dichloro-2-bute	0.293	0.273	6.8	156	-0.01	15.67
108		1,2,3-trichloropropane	0.334	0.342	-2.4	159	-0.01	15.70
109		n-propylbenzene	4.293	4.608	-7.3	165	-0.01	15.78
110		2-chlorotoluene	0.913	0.970	-6.2	164	0.00	15.91
111		4-chlorotoluene	2.793	2.862	-2.5	162	0.00	16.01
112		1,3,5-trimethylbenzene	3.028	3.254	-7.5	162	0.00	15.94
113		tert-butylbenzene	0.569	0.582	-2.3	162	-0.01	16.29
114		pentachloroethane	0.609	0.667	-9.5	165	-0.01	16.34
115		1,2,4-trimethylbenzene	3.144	3.363	-7.0	162	0.00	16.33
116		sec-butylbenzene	3.916	4.257	-8.7	163	-0.01	16.51
117		1,3-dichlorobenzene	1.875	1.966	-4.9	163	0.00	16.66
118		p-isopropyltoluene	3.252	3.452	-6.2	161	-0.01	16.63
119		1,4-dichlorobenzene	1.904	1.945	-2.2	159	0.00	16.74
120		1,2-dichlorobenzene	1.836	1.946	-6.0	161	-0.01	17.12
121		n-butylbenzene	1.753	1.897	-8.2	162	0.00	17.03
122		1,2-dibromo-3-chloropropa	0.294	0.317	-7.8	168	-0.01	17.84
123	m	1,3,5-trichlorobenzene	1.413	1.522	-7.7	165	0.00	18.04
124		1,2,4-trichlorobenzene	1.258	1.391	-10.6	170	0.00	18.63
125		hexachlorobutadiene	0.667	0.702	-5.2	161	0.00	18.77
126		naphthalene	3.467	3.610	-4.1	172	-0.01	18.89
127		1,2,3-trichlorobenzene	1.129	1.245	-10.3	167	0.00	19.13
128		hexachloroethane	0.712	0.758	-6.5	166	-0.01	17.39
129		Benzyl chloride	2.521	2.550	-1.2	160	-0.01	16.85

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4D69042.D M4D3034.M Tue Jul 12 09:05:30 2016

6.8.3

6

Continuing Calibration Summary

Job Number: JC23588 **Sample:** V4D3064-CC3034
Account: PILOTSS Pilot Travel Centers LLC **Lab FileID:** 4D69936.D
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\4D\V4D3064\4D69936.D       Vial: 5
Acq On    : 11 Jul 2016  11:12 am                    Operator: XimenaC
Sample    : cc3034-20                                Inst    : MS4D
Misc      : MS4275,V4D3064,5,,,,1                    Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\M4D3034.M (RTE Integrator)
Title        : METHOD SW-846 8260C , DB-624 60m x 0.25mm x 1.4 um
Last Update  : Tue Jul 12 08:25:41 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.010  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	108	-0.03	7.47
2		1,4-dioxane	0.127	0.124	2.4	102	-0.02	11.70
3	M	tertiary butyl alcohol	1.361	1.309	3.8	101	-0.02	7.60
4	I	pentafluorobenzene	1.000	1.000	0.0	109	-0.01	10.01
5		freon 143a		----------NA----------				
6		chlorodifluoromethane	0.596	0.598	-0.3	108	-0.01	3.72
7		dichlorodifluoromethane	0.651	0.650	0.2	103	-0.01	3.71
8		freon 142b		----------NA----------				
9		chloromethane	0.769	0.648	15.7	92	-0.02	4.05
10		vinyl chloride	0.752	0.638	15.2	87	-0.01	4.33
11		acetaldehyde		----------NA----------				
12		bromomethane	0.560	0.453	19.1	86	-0.01	5.02
13		chloroethane	0.386	0.302	21.8#	78	-0.01	5.23
14		trichlorofluoromethane	0.888	0.777	12.5	88	-0.01	5.78
15		vinyl bromide		----------NA----------				
16		freon 141b		----------NA----------				
17		ethyl ether	0.314	0.341	-8.6	112	-0.02	6.26
18		pentane		----------NA----------				
19		2-chloropropane	0.968	0.951	1.8	106	-0.02	6.44
20		acrolein	0.160	0.164	-2.5	106	-0.02	6.47
21		1,1-dichloroethene	0.889	0.929	-4.5	107	0.00	6.70
22		acetone	0.069	0.073	-5.8	119	-0.02	6.73
23		allyl chloride	0.325	0.353	-8.6	110	-0.01	7.29
24		acetonitrile	0.049	0.050	-2.0	111	-0.02	7.18
25		iodomethane	1.085	1.167	-7.6	111	-0.02	6.97
26		iso-butyl alcohol	0.034	0.032	5.9	102	-0.02	10.28
27		carbon disulfide	2.036	2.177	-6.9	116	-0.01	7.13
28		methylene chloride	0.649	0.676	-4.2	109	-0.01	7.49
29		1-chloropropane		----------NA----------				
30		methyl acetate	0.132	0.126	4.5	106	-0.02	7.29
31		methyl tert butyl ether	1.795	1.871	-4.2	105	-0.02	7.94
32		trans-1,2-dichloroethene	0.883	0.893	-1.1	106	-0.02	7.94
33		di-isopropyl ether	1.801	1.819	-1.0	101	-0.01	8.66
34		ethyl tert-butyl ether	1.791	1.851	-3.4	103	-0.01	9.17
35		2-butanone	0.092	0.094	-2.2	115	-0.02	9.36
36	M	1,1-dichloroethane	1.081	1.102	-1.9	105	-0.02	8.57
37		chloroprene	0.795	0.775	2.5	101	-0.02	8.72
38		acrylonitrile	0.266	0.292	-9.8	112	-0.02	7.83
39		vinyl acetate	0.116	0.104	10.3	99	-0.02	8.59
40		ethyl acetate	0.110	0.100	9.1	101	-0.01	9.43
41		2,2-dichloropropane	0.885	0.895	-1.1	105	-0.01	9.42

Continuing Calibration Summary

Job Number: JC23588 **Sample:** V4D3064-CC3034
Account: PILOTSS Pilot Travel Centers LLC **Lab FileID:** 4D69936.D
Project: SCNJCH: #290, Heather Lane, Perryville, MD

42		cis-1,2-dichloroethene	0.700	0.684	2.3	106	-0.02	9.39
43		propionitrile	0.112	0.121	-8.0	113	-0.02	9.42
44		methyl acrylate	0.119	0.123	-3.4	115	-0.02	9.49
45		bromochloromethane	0.348	0.353	-1.4	105	-0.01	9.71
46		tetrahydrofuran	0.267	0.242	9.4	107	-0.02	9.78
47		chloroform	1.132	1.089	3.8	101	-0.02	9.79
48	S	dibromofluoromethane (s)	0.560	0.516	7.9	99	-0.02	9.99
49	S	1,2-dichloroethane-d4 (s)	0.625	0.553	11.5	96	-0.01	10.45
50		freon 113	0.365	0.403	-10.4	115	0.00	6.72
51		methacrylonitrile	0.321	0.320	0.3	112	-0.02	9.65
52		1,1,1-trichloroethane	0.909	0.850	6.5	97	-0.01	10.09
53		tert-amyl methyl ether	1.844	1.787	3.1	99	0.00	10.65
54	I	1,4-difluorobenzene	1.000	1.000	0.0	106	-0.02	10.96
55		epichlorohydrin	0.054	0.054	0.0	109	-0.02	12.25
56		n-butyl alcohol	0.018	0.017	5.6	102	-0.02	11.09
57	M	cyclohexane	0.480	0.516	-7.5	110	0.00	10.20
58		tert amyl alcohol		----------NA----------				
59		carbon tetrachloride	0.551	0.543	1.5	99	-0.01	10.32
60		1,1-dichloropropene	0.503	0.518	-3.0	105	-0.01	10.29
61		hexane	0.343	0.454	-32.4#	131	-0.02	8.37
62	M	benzene	1.482	1.536	-3.6	106	-0.01	10.56
63		ISO-OCTANE	1.179	1.314	-11.5	113	0.00	10.65
64		heptane	0.224	0.252	-12.5	116	-0.01	10.83
65		isopropyl acetate	0.911	0.824	9.5	98	-0.02	10.52
66		1,2-dichloroethane	0.583	0.557	4.5	96	-0.02	10.54
67		trichloroethene	0.407	0.413	-1.5	105	-0.01	11.32
68		ethyl acrylate		----------NA----------				
69		2-nitropropane	0.135	0.135	0.0	106	-0.01	12.10
70		2-chloroethyl vinyl ether	0.293	0.302	-3.1	104	0.00	12.16
71		methyl methacrylate	0.117	0.123	-5.1	117	-0.02	11.63
72		1,2-dichloropropane	0.395	0.431	-9.1	111	0.00	11.58
73		methylcyclohexane	0.530	0.593	-11.9	114	-0.01	11.59
74	M	tert-amyl ethyl ether		----------NA----------				
75		dibromomethane	0.299	0.310	-3.7	104	-0.01	11.72
76		bromodichloromethane	0.571	0.578	-1.2	103	-0.01	11.87
77		cis-1,3-dichloropropene	0.646	0.711	-10.1	112	-0.01	12.37
78	S	toluene-d8 (s)	1.152	1.181	-2.5	109	-0.01	12.71
79		4-methyl-2-pentanone	0.195	0.218	-11.8	118	-0.01	12.51
80		toluene	0.891	0.951	-6.7	110	-0.01	12.79
81		3-methyl-1-butanol	0.015	0.016	-6.7	102	-0.01	12.52
82		trans-1,3-dichloropropene	0.631	0.677	-7.3	110	-0.01	12.97
83		ethyl methacrylate	0.532	0.581	-9.2	113	-0.01	13.02
84		1,1,2-trichloroethane	0.338	0.368	-8.9	112	-0.01	13.19
85		2-hexanone	0.186	0.216	-16.1	121	-0.01	13.42
86	I	chlorobenzene-d5	1.000	1.000	0.0	107	0.00	14.32
87		tetrachloroethene	0.451	0.478	-6.0	110	0.00	13.42
88		1,3-dichloropropane	0.678	0.713	-5.2	110	-0.01	13.39
89		butyl acetate	0.336	0.363	-8.0	113	-0.01	13.52
90		dibromochloromethane	0.518	0.559	-7.9	111	-0.01	13.66
91		1,2-dibromoethane	0.477	0.505	-5.9	110	-0.01	13.83
92		n-Butyl Ether	1.603	1.748	-9.0	115	0.00	14.34
93		chlorobenzene	1.149	1.219	-6.1	111	-0.01	14.35
94		1,1,1,2-tetrachloroethane	0.458	0.471	-2.8	107	-0.01	14.41
95		ethylbenzene	1.937	2.040	-5.3	111	-0.01	14.44
96		m,p-xylene	0.724	0.775	-7.0	110	0.00	14.56
97		o-xylene	1.583	1.657	-4.7	109	-0.01	14.99
98		styrene	1.212	1.298	-7.1	111	0.00	15.00
99		butyl acrylate		----------NA----------				

Continuing Calibration Summary

Job Number: JC23588 **Sample:** V4D3064-CC3034
Account: PILOTSS Pilot Travel Centers LLC **Lab FileID:** 4D69936.D
Project: SCNJCH: #290, Heather Lane, Perryville, MD

100		bromoform	0.391	0.429	-9.7	115	-0.01	15.23
101	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	106	-0.01	16.72
102		isopropylbenzene	3.553	3.817	-7.4	111	0.00	15.36
103	S	4-bromofluorobenzene (s)	0.974	0.944	3.1	104	0.00	15.54
104		bromobenzene	1.009	1.052	-4.3	111	-0.01	15.74
105		cyclohexanone	0.043	0.088	-104.7#	228#	-0.01	15.48
106		1,1,2,2-tetrachloroethane	1.316	1.448	-10.0	114	-0.01	15.63
107		trans-1,4-dichloro-2-bute	0.293	0.297	-1.4	115	0.00	15.68
108		1,2,3-trichloropropane	0.334	0.337	-0.9	106	-0.01	15.70
109		n-propylbenzene	4.293	4.541	-5.8	110	-0.01	15.78
110		2-chlorotoluene	0.913	0.957	-4.8	109	0.00	15.91
111		4-chlorotoluene	2.793	2.800	-0.3	107	0.00	16.01
112		1,3,5-trimethylbenzene	3.028	3.251	-7.4	109	0.00	15.94
113		tert-butylbenzene	0.569	0.579	-1.8	109	-0.01	16.29
114		pentachloroethane	0.609	0.681	-11.8	114	-0.01	16.34
115		1,2,4-trimethylbenzene	3.144	3.380	-7.5	110	0.00	16.33
116		sec-butylbenzene	3.916	4.328	-10.5	113	-0.01	16.51
117		1,3-dichlorobenzene	1.875	2.016	-7.5	113	0.00	16.66
118		p-isopropyltoluene	3.252	3.578	-10.0	113	-0.01	16.63
119		1,4-dichlorobenzene	1.904	2.008	-5.5	111	0.00	16.74
120		1,2-dichlorobenzene	1.836	1.987	-8.2	111	-0.01	17.12
121		n-butylbenzene	1.753	1.936	-10.4	112	0.00	17.03
122		1,2-dibromo-3-chloropropa	0.294	0.333	-13.3	119	-0.01	17.84
123	m	1,3,5-trichlorobenzene	1.413	1.620	-14.6	119	0.00	18.04
124		1,2,4-trichlorobenzene	1.258	1.461	-16.1	121	0.00	18.63
125		hexachlorobutadiene	0.667	0.768	-15.1	119	0.00	18.77
126		naphthalene	3.467	3.816	-10.1	123	-0.01	18.89
127		1,2,3-trichlorobenzene	1.129	1.323	-17.2	120	0.00	19.13
128		hexachloroethane	0.712	0.766	-7.6	114	-0.01	17.39
129		Benzyl chloride	2.521	2.681	-6.3	114	-0.01	16.85

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4D69042.D M4D3034.M Tue Jul 12 14:40:36 2016

Continuing Calibration Summary

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample: V4D3064-CC3034
Lab FileID: 4D69937.D

Sensitivity check for Chloroethane

Data File : C:\msdchem\1\data\4D\V4D3064\4D69937.D Vial: 6
Acq On : 11 Jul 2016 11:47 am Operator: XimenaC
Sample : cc3034-1 Inst : MS4D
Misc : MS4275,V4D3064,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M4D3034.M (RTE Integrator)
Title : METHOD SW-846 8260C , DB-624 60m x 0.25mm x 1.4 um
Last Update : Tue Jul 12 15:08:51 2016
Response via : Multiple Level Calibration

Min. RRF : Min. Rel. Area : Max. R.T. Dev 0.50min
Max. RRF Dev : Max. Rel. Area :

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	105	-0.02	7.47
2		1,4-dioxane		----------NA----------				
3	M	tertiary butyl alcohol		----------NA----------				
4	I	pentafluorobenzene	1.000	1.000	0.0	107	-0.01	10.01
5		freon 143a		----------NA----------				
6		chlorodifluoromethane		----------NA----------				
7		dichlorodifluoromethane		----------NA----------				
8		freon 142b		----------NA----------				
9		chloromethane		----------NA----------				
10		vinyl chloride		----------NA----------				
11		acetaldehyde		----------NA----------				
12		bromomethane		----------NA----------				
13		chloroethane	0.386	0.309	19.9	81	-0.02	5.22
14		trichlorofluoromethane		----------NA----------				
15		vinyl bromide		----------NA----------				
16		freon 141b		----------NA----------				
17		ethyl ether		----------NA----------				
18		pentane		----------NA----------				
19		2-chloropropane		----------NA----------				
20		acrolein		----------NA----------				
21		1,1-dichloroethene		----------NA----------				
22		acetone		----------NA----------				
23		allyl chloride		----------NA----------				
24		acetonitrile		----------NA----------				
25		iodomethane		----------NA----------				
26		iso-butyl alcohol		----------NA----------				
27		carbon disulfide		----------NA----------				
28		methylene chloride		----------NA----------				
29		1-chloropropane		----------NA----------				
30		methyl acetate		----------NA----------				
31		methyl tert butyl ether		----------NA----------				
32		trans-1,2-dichloroethene		----------NA----------				
33		di-isopropyl ether		----------NA----------				
34		ethyl tert-butyl ether		----------NA----------				
35		2-butanone		----------NA----------				
36	M	1,1-dichloroethane		----------NA----------				
37		chloroprene		----------NA----------				
38		acrylonitrile		----------NA----------				
39		vinyl acetate		----------NA----------				
40		ethyl acetate		----------NA----------				
41		2,2-dichloropropane		----------NA----------				

Continuing Calibration Summary

Job Number: JC23588 **Sample:** V4D3064-CC3034
Account: PILOTSS Pilot Travel Centers LLC **Lab FileID:** 4D69937.D
Project: SCNJCH: #290, Heather Lane, Perryville, MD

42		cis-1,2-dichloroethene		----------NA----------				
43		propionitrile		----------NA----------				
44		methyl acrylate		----------NA----------				
45		bromochloromethane		----------NA----------				
46		tetrahydrofuran		----------NA----------				
47		chloroform		----------NA----------				
48	S	dibromofluoromethane (s)	0.560	0.517	7.7	99	-0.02	9.99
49	S	1,2-dichloroethane-d4 (s)	0.625	0.557	10.9	94	-0.01	10.45
50		freon 113		----------NA----------				
51		methacrylonitrile		----------NA----------				
52		1,1,1-trichloroethane		----------NA----------				
53		tert-amyl methyl ether		----------NA----------				
54	I	1,4-difluorobenzene	1.000	1.000	0.0	103	-0.02	10.96
55		epichlorohydrin		----------NA----------				
56		n-butyl alcohol		----------NA----------				
57	M	cyclohexane		----------NA----------				
58		tert amyl alcohol		----------NA----------				
59		carbon tetrachloride		----------NA----------				
60		1,1-dichloropropene		----------NA----------				
61		hexane		----------NA----------				
62	M	benzene		----------NA----------				
63		ISO-OCTANE		----------NA----------				
64		heptane		----------NA----------				
65		isopropyl acetate		----------NA----------				
66		1,2-dichloroethane		----------NA----------				
67		trichloroethene		----------NA----------				
68		ethyl acrylate		----------NA----------				
69		2-nitropropane		----------NA----------				
70		2-chloroethyl vinyl ether		----------NA----------				
71		methyl methacrylate		----------NA----------				
72		1,2-dichloropropane		----------NA----------				
73		methylcyclohexane		----------NA----------				
74	M	tert-amyl ethyl ether		----------NA----------				
75		dibromomethane		----------NA----------				
76		bromodichloromethane		----------NA----------				
77		cis-1,3-dichloropropene		----------NA----------				
78	S	toluene-d8 (s)	1.152	1.174	-1.9	106	-0.01	12.71
79		4-methyl-2-pentanone		----------NA----------				
80		toluene		----------NA----------				
81		3-methyl-1-butanol		----------NA----------				
82		trans-1,3-dichloropropene		----------NA----------				
83		ethyl methacrylate		----------NA----------				
84		1,1,2-trichloroethane		----------NA----------				
85		2-hexanone		----------NA----------				
86	I	chlorobenzene-d5	1.000	1.000	0.0	103	0.00	14.32
87		tetrachloroethene		----------NA----------				
88		1,3-dichloropropane		----------NA----------				
89		butyl acetate		----------NA----------				
90		dibromochloromethane		----------NA----------				
91		1,2-dibromoethane		----------NA----------				
92		n-Butyl Ether		----------NA----------				
93		chlorobenzene		----------NA----------				
94		1,1,1,2-tetrachloroethane		----------NA----------				
95		ethylbenzene		----------NA----------				
96		m,p-xylene		----------NA----------				
97		o-xylene		----------NA----------				
98		styrene		----------NA----------				
99		butyl acrylate		----------NA----------				

Continuing Calibration Summary

Job Number: JC23588 **Sample:** V4D3064-CC3034
Account: PILOTSS Pilot Travel Centers LLC **Lab FileID:** 4D69937.D
Project: SCNJCH: #290, Heather Lane, Perryville, MD

100		bromoform		----------NA----------				
101	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	100	-0.01	16.72
102		isopropylbenzene		----------NA----------				
103	S	4-bromofluorobenzene (s)	0.974	0.994	-2.1	102	0.00	15.54
104		bromobenzene		----------NA----------				
105		cyclohexanone		----------NA----------				
106		1,1,2,2-tetrachloroethane		----------NA----------				
107		trans-1,4-dichloro-2-bute		----------NA----------				
108		1,2,3-trichloropropane		----------NA----------				
109		n-propylbenzene		----------NA----------				
110		2-chlorotoluene		----------NA----------				
111		4-chlorotoluene		----------NA----------				
112		1,3,5-trimethylbenzene		----------NA----------				
113		tert-butylbenzene		----------NA----------				
114		pentachloroethane		----------NA----------				
115		1,2,4-trimethylbenzene		----------NA----------				
116		sec-butylbenzene		----------NA----------				
117		1,3-dichlorobenzene		----------NA----------				
118		p-isopropyltoluene		----------NA----------				
119		1,4-dichlorobenzene		----------NA----------				
120		1,2-dichlorobenzene		----------NA----------				
121		n-butylbenzene		----------NA----------				
122		1,2-dibromo-3-chloropropa		----------NA----------				
123	m	1,3,5-trichlorobenzene		----------NA----------				
124		1,2,4-trichlorobenzene		----------NA----------				
125		hexachlorobutadiene		----------NA----------				
126		naphthalene		----------NA----------				
127		1,2,3-trichlorobenzene		----------NA----------				
128		hexachloroethane		----------NA----------				
129		Benzyl chloride		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4D69038.D M4D3034.M Wed Jul 13 09:29:35 2016

6.8.5

6

GC/MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\4D\V4D3063\
Data File : 4D69915.D
Acq On : 9 Jul 2016 1:18 pm
Operator : XimenaC
Sample : jc23588-1
Misc : MS4402,V4D3063,5,,,,1
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Jul 12 09:09:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4D3034.M
Quant Title : METHOD SW-846 8260C , DB-624 60m x 0.25mm x 1.4 um
QLast Update : Tue Jul 12 08:25:41 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Tert Butyl Alcohol-d9	7.473	65	283094	500.00 ug/L	-0.02
4) pentafluorobenzene	10.016	168	340044	50.00 ug/L	0.00
54) 1,4-difluorobenzene	10.965	114	549250	50.00 ug/L	-0.01
86) chlorobenzene-d5	14.320	117	505587	50.00 ug/L	0.00
101) 1,4-dichlorobenzene-d4	16.716	152	250927	50.00 ug/L	-0.01
System Monitoring Compounds					
48) dibromofluoromethane (s)	10.000	113	187262	49.17 ug/L	-0.01
Spiked Amount 50.000	Range 76 - 120		Recovery = 98.34%		
49) 1,2-dichloroethane-d4 (s)	10.446	65	206859	48.67 ug/L	-0.01
Spiked Amount 50.000	Range 73 - 122		Recovery = 97.34%		
78) toluene-d8 (s)	12.716	98	649726	51.34 ug/L	0.00
Spiked Amount 50.000	Range 84 - 119		Recovery = 102.68%		
103) 4-bromofluorobenzene (s)	15.542	95	258114	52.83 ug/L	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 105.66%		
Target Compounds					Qvalue

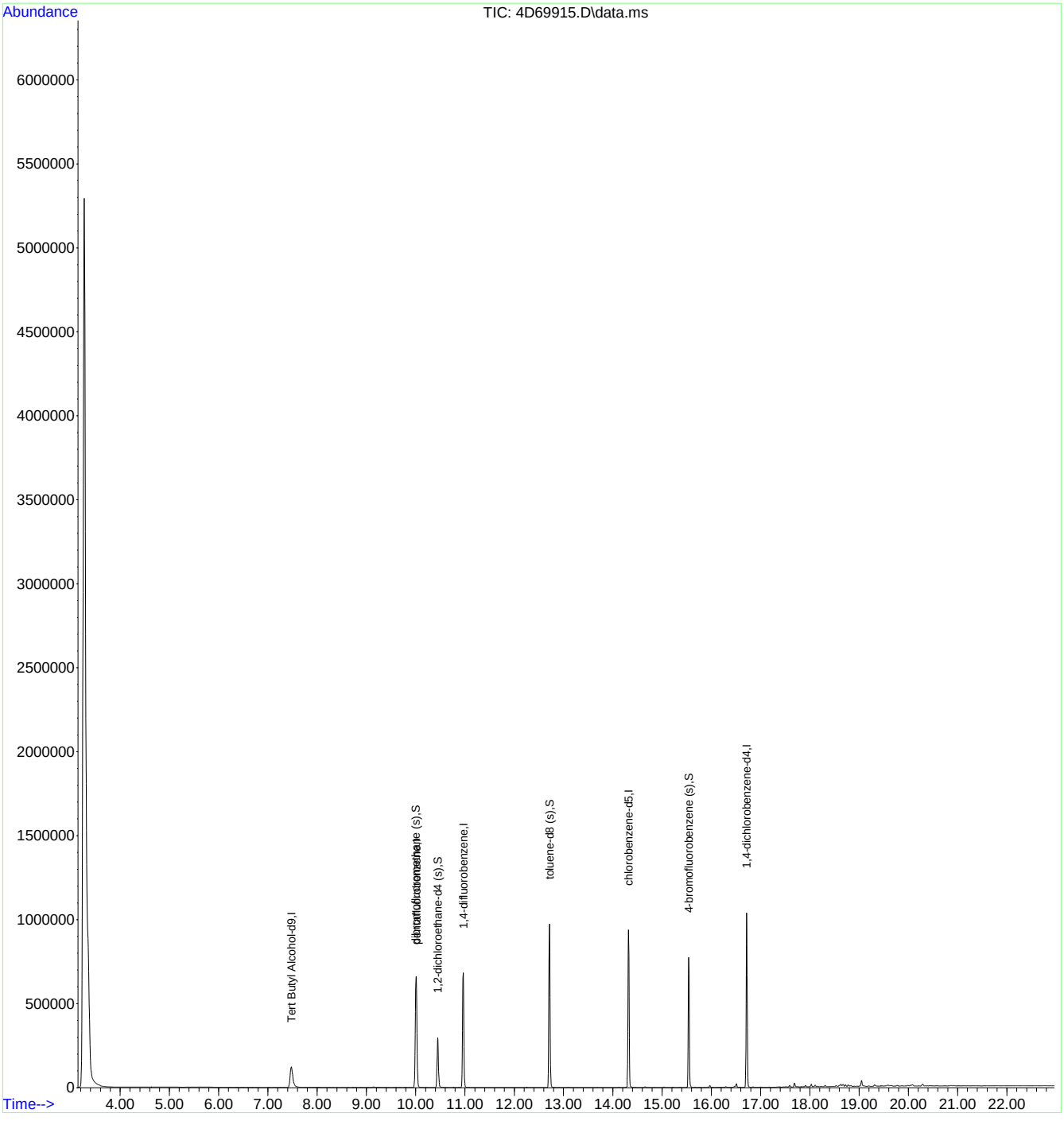
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC23588

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\4D\V4D3063\
Data File : 4D69915.D
Acq On : 9 Jul 2016 1:18 pm
Operator : XimenaC
Sample : jc23588-1
Misc : MS4402,V4D3063,5,,,,1
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Jul 12 09:09:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4D3034.M
Quant Title : METHOD SW-846 8260C , DB-624 60m x 0.25mm x 1.4 um
QLast Update : Tue Jul 12 08:25:41 2016
Response via : Initial Calibration



SGS ACCUTEST JC23588

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\4D\V4D3063\
Data File : 4D69918.D
Acq On : 9 Jul 2016 2:42 pm
Operator : XimenaC
Sample : jc23588-2
Misc : MS4402,V4D3063,5,,,,1
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Jul 12 09:14:57 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4D3034.M
Quant Title : METHOD SW-846 8260C , DB-624 60m x 0.25mm x 1.4 um
QLast Update : Tue Jul 12 08:25:41 2016
Response via : Initial Calibration

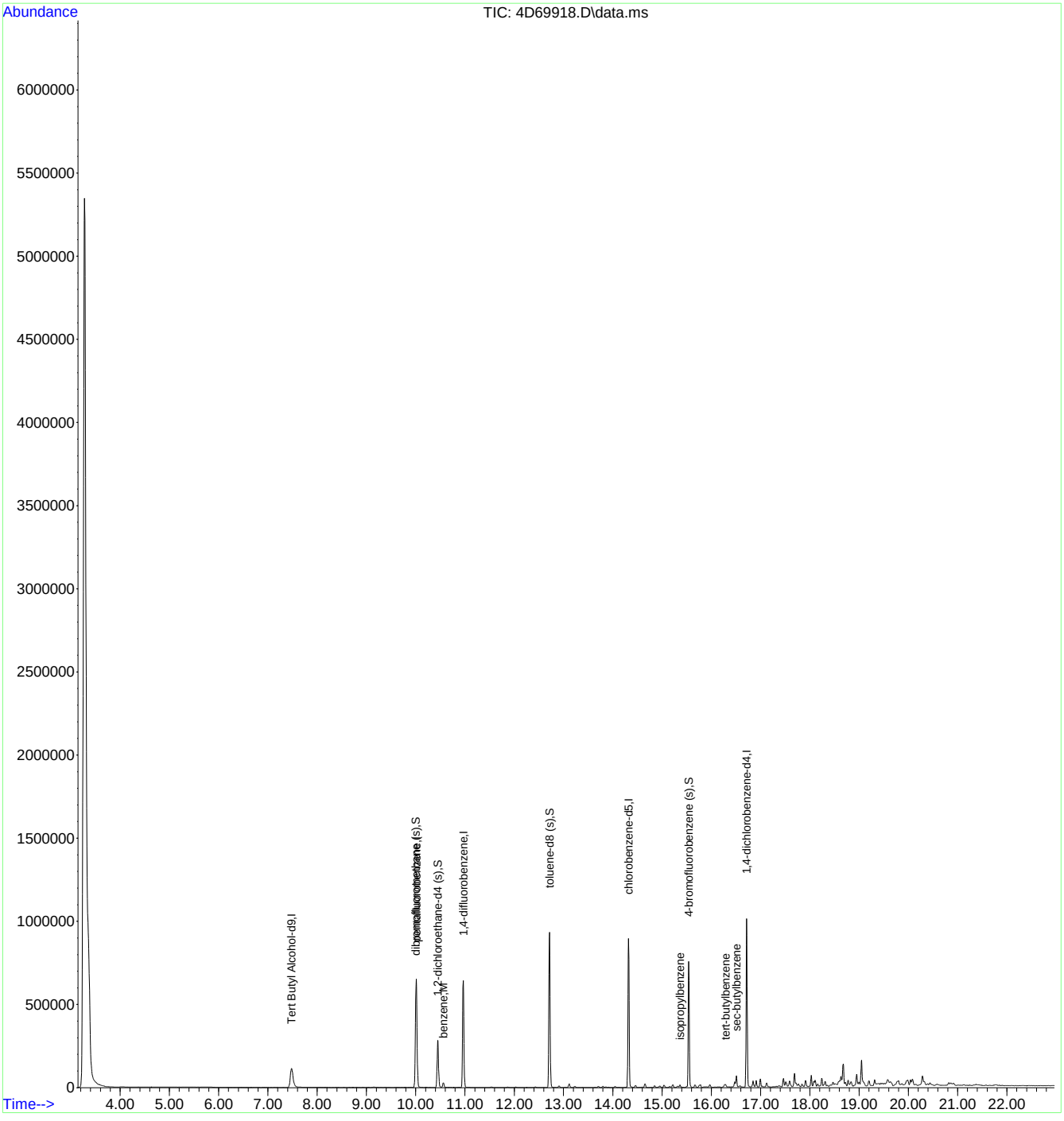
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Tert Butyl Alcohol-d9	7.478	65	270471	500.00 ug/L	-0.02
4) pentafluorobenzene	10.016	168	329795	50.00 ug/L	0.00
54) 1,4-difluorobenzene	10.965	114	525063	50.00 ug/L	-0.01
86) chlorobenzene-d5	14.320	117	479256	50.00 ug/L	0.00
101) 1,4-dichlorobenzene-d4	16.716	152	241687	50.00 ug/L	-0.01
System Monitoring Compounds					
48) dibromofluoromethane (s)	10.000	113	182904	49.52 ug/L	0.00
Spiked Amount 50.000	Range 76 - 120		Recovery = 99.04%		
49) 1,2-dichloroethane-d4 (s)	10.446	65	201372	48.85 ug/L	-0.01
Spiked Amount 50.000	Range 73 - 122		Recovery = 97.70%		
78) toluene-d8 (s)	12.716	98	623262	51.52 ug/L	0.00
Spiked Amount 50.000	Range 84 - 119		Recovery = 103.04%		
103) 4-bromofluorobenzene (s)	15.542	95	251684	53.48 ug/L	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 106.96%		
Target Compounds					Qvalue
62) benzene	10.561	78	25905	1.66 ug/L	99
102) isopropylbenzene	15.364	105	10561	0.61 ug/L	97
113) tert-butylbenzene	16.292	134	1456	0.53 ug/L #	85
116) sec-butylbenzene	16.507	105	47270	2.50 ug/L	98

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

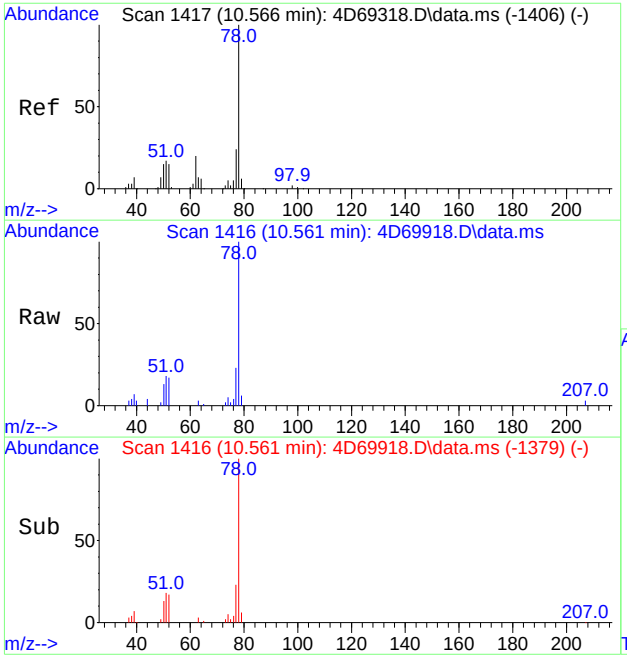
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\4D\V4D3063\
Data File : 4D69918.D
Acq On : 9 Jul 2016 2:42 pm
Operator : XimenaC
Sample : jc23588-2
Misc : MS4402,V4D3063,5,,,,1
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Jul 12 09:14:57 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4D3034.M
Quant Title : METHOD SW-846 8260C , DB-624 60m x 0.25mm x 1.4 um
QLast Update : Tue Jul 12 08:25:41 2016
Response via : Initial Calibration



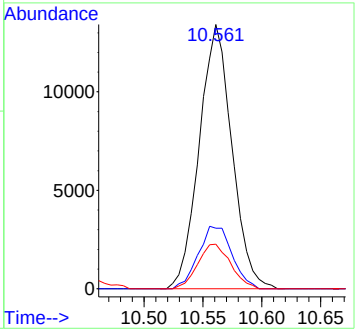
M4D3034.M Tue Jul 12 09:55:34 2016 Page: 2

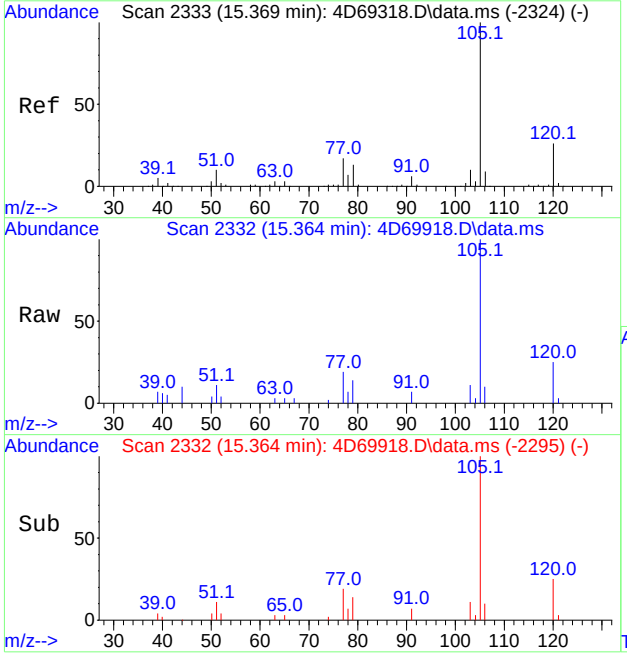


#62
benzene
Concen: 1.66 ug/L
RT: 10.561 min Scan# 1416
Delta R.T. -0.005 min
Lab File: 4D69918.D
Acq: 9 Jul 2016 2:42 pm

Tgt Ion: 78 Resp: 25905

Ion	Ratio	Lower	Upper
78	100		
77	22.9	0.0	53.0
52	16.8	0.0	46.1

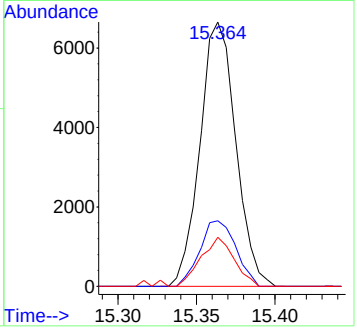


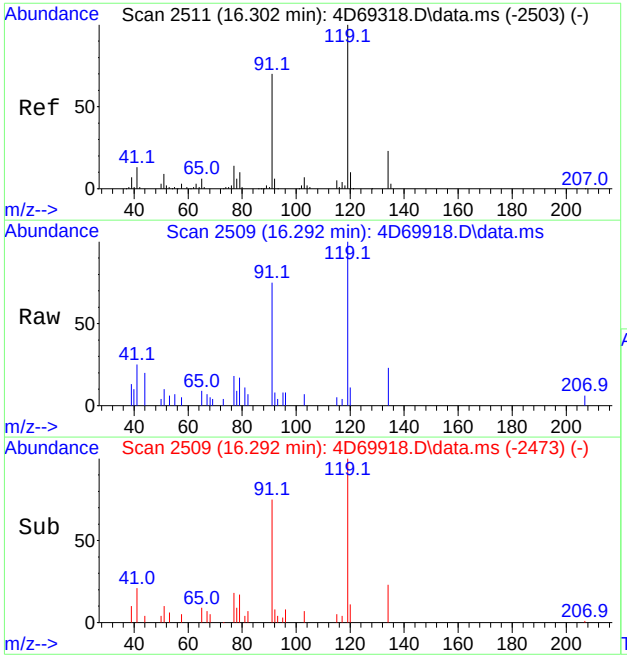


#102
isopropylbenzene
Concen: 0.61 ug/L
RT: 15.364 min Scan# 2332
Delta R.T. -0.005 min
Lab File: 4D69918.D
Acq: 9 Jul 2016 2:42 pm

Tgt Ion:105 Resp: 10561

Ion	Ratio	Lower	Upper
105	100		
120	24.8	0.0	55.2
77	18.6	0.0	45.4

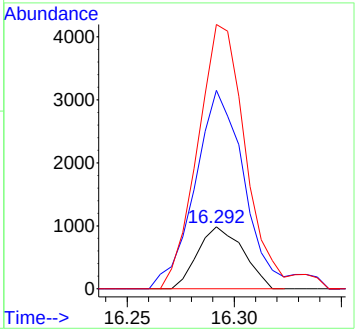


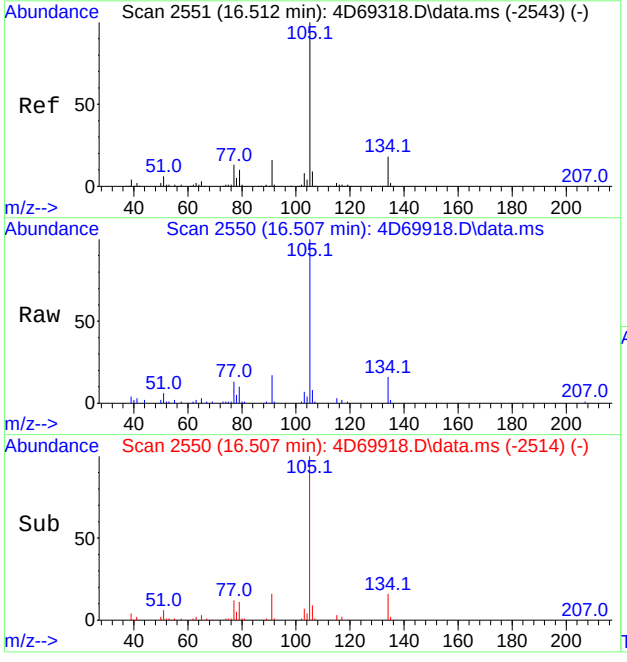


#113
tert-butylbenzene
Concen: 0.53 ug/L
RT: 16.292 min Scan# 2509
Delta R.T. -0.010 min
Lab File: 4D69918.D
Acq: 9 Jul 2016 2:42 pm

Tgt Ion:134 Resp: 1456

Ion	Ratio	Lower	Upper
134	100		
91	301.0	299.1	359.1
119	426.8	438.9	498.9#

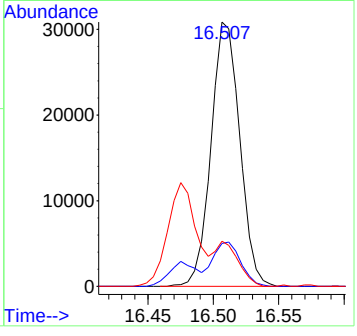




#116
sec-butylbenzene
Concen: 2.50 ug/L
RT: 16.507 min Scan# 2550
Delta R.T. -0.010 min
Lab File: 4D69918.D
Acq: 9 Jul 2016 2:42 pm

Tgt Ion:105 Resp: 47270

Ion	Ratio	Lower	Upper
105	100		
134	16.2	0.0	46.6
91	16.6	0.0	45.2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\4D\V4D3063\
Data File : 4D69919.D
Acq On : 9 Jul 2016 3:10 pm
Operator : XimenaC
Sample : jc23588-3
Misc : MS4402,V4D3063,5,,,,1
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Jul 12 09:16:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4D3034.M
Quant Title : METHOD SW-846 8260C , DB-624 60m x 0.25mm x 1.4 um
QLast Update : Tue Jul 12 08:25:41 2016
Response via : Initial Calibration

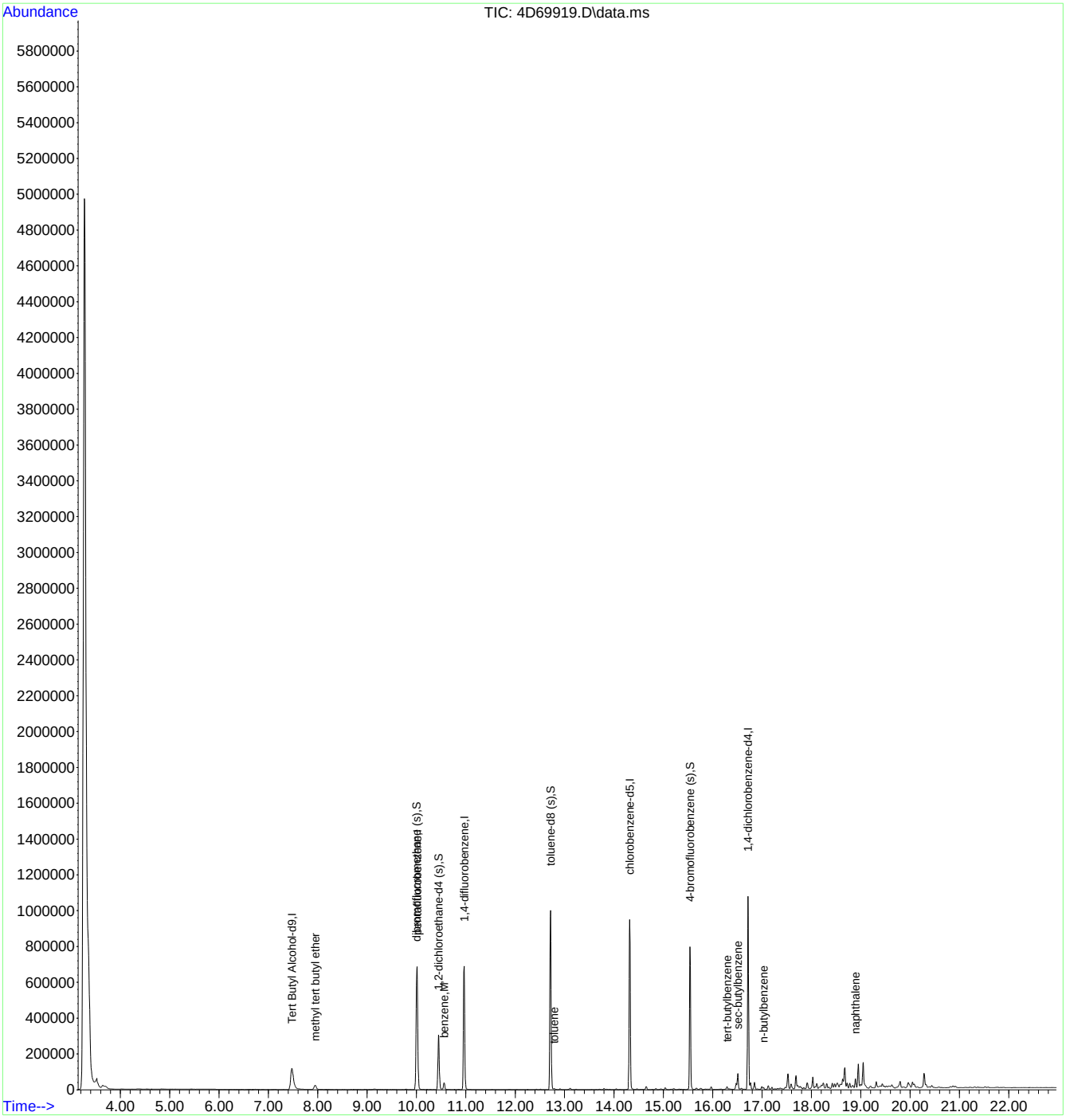
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.473	65	288575	500.00	ug/L	-0.02
4) pentafluorobenzene	10.016	168	348373	50.00	ug/L	0.00
54) 1,4-difluorobenzene	10.965	114	554817	50.00	ug/L	-0.01
86) chlorobenzene-d5	14.320	117	515041	50.00	ug/L	0.00
101) 1,4-dichlorobenzene-d4	16.716	152	253542	50.00	ug/L	-0.01
System Monitoring Compounds						
48) dibromofluoromethane (s)	10.000	113	191237	49.02	ug/L	-0.01
Spiked Amount 50.000	Range 76 - 120		Recovery = 98.04%			
49) 1,2-dichloroethane-d4 (s)	10.445	65	209109	48.02	ug/L	-0.01
Spiked Amount 50.000	Range 73 - 122		Recovery = 96.04%			
78) toluene-d8 (s)	12.716	98	667071	52.18	ug/L	0.00
Spiked Amount 50.000	Range 84 - 119		Recovery = 104.36%			
103) 4-bromofluorobenzene (s)	15.542	95	263949	53.46	ug/L	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 106.92%			
Target Compounds						Qvalue
31) methyl tert butyl ether	7.950	73	36630	2.93	ug/L	98
62) benzene	10.561	78	35130	2.14	ug/L	99
80) toluene	12.789	92	2347	0.24	ug/L	87
113) tert-butylbenzene	16.297	134	1530	0.53	ug/L #	74
116) sec-butylbenzene	16.512	105	60894	3.07	ug/L	99
121) n-butylbenzene	17.031	92	3054	0.34	ug/L	95
126) naphthalene	18.892	128	36516	2.08	ug/L	99

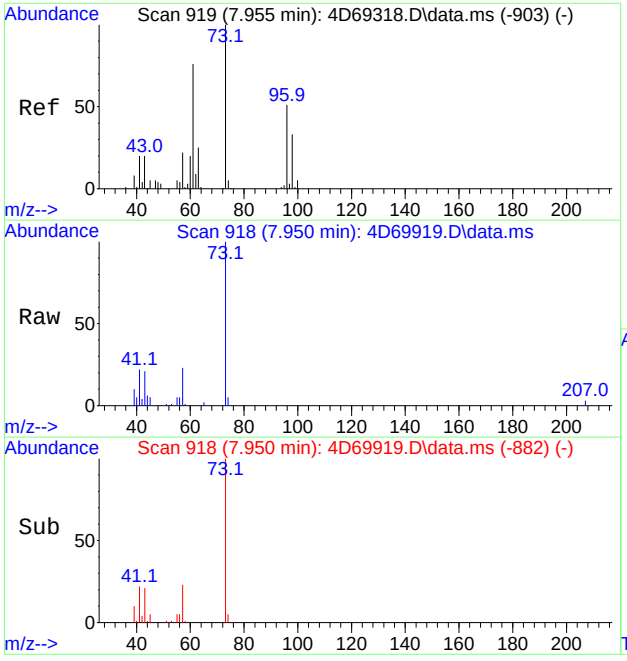
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\4D\V4D3063\
Data File : 4D69919.D
Acq On : 9 Jul 2016 3:10 pm
Operator : XimenaC
Sample : jc23588-3
Misc : MS4402,V4D3063,5,,,,1
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Jul 12 09:16:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4D3034.M
Quant Title : METHOD SW-846 8260C , DB-624 60m x 0.25mm x 1.4 um
QLast Update : Tue Jul 12 08:25:41 2016
Response via : Initial Calibration

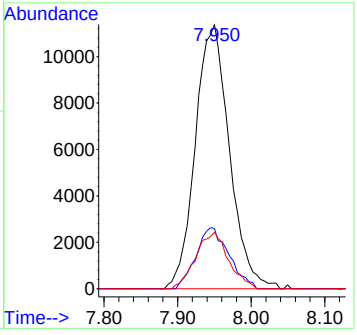


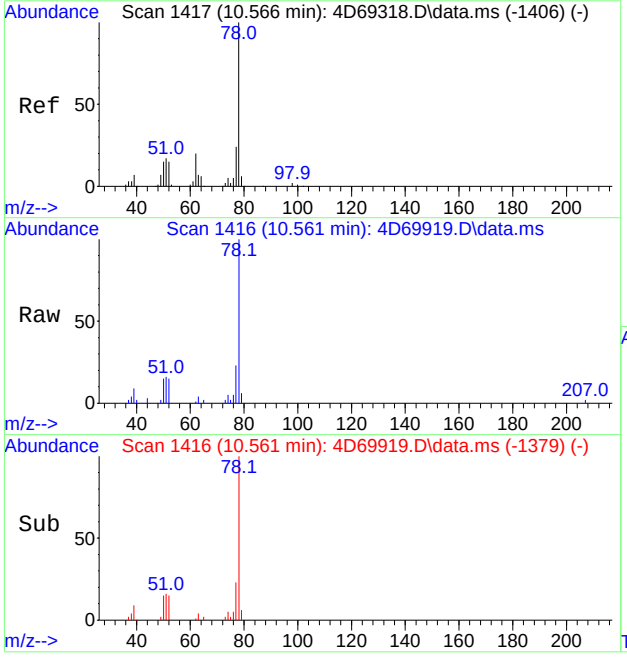


#31
methyl tert butyl ether
Concen: 2.93 ug/L
RT: 7.950 min Scan# 918
Delta R.T. -0.010 min
Lab File: 4D69919.D
Acq: 9 Jul 2016 3:10 pm

Tgt Ion: 73 Resp: 36630

Ion	Ratio	Lower	Upper
73	100		
57	22.8	0.0	52.5
43	21.4	0.0	49.6

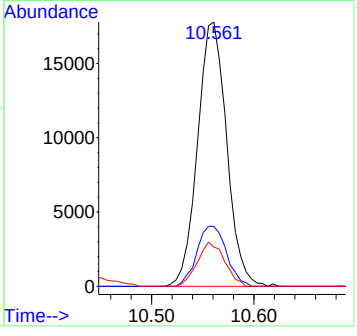


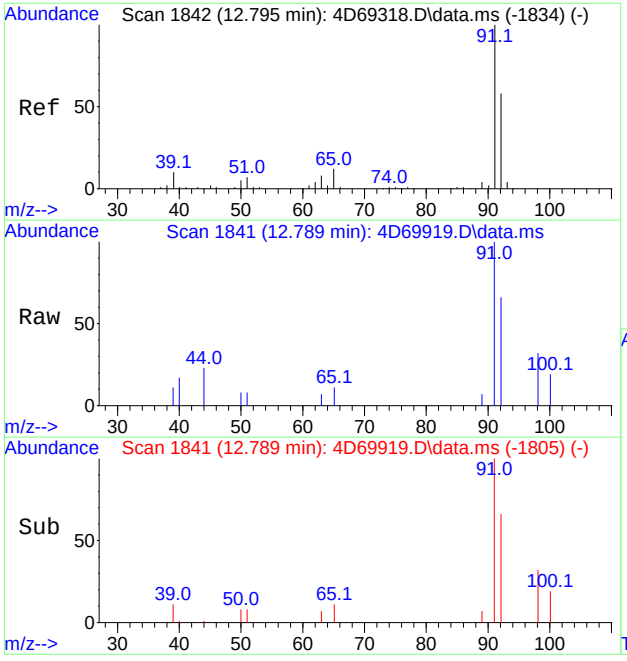


#62
benzene
Concen: 2.14 ug/L
RT: 10.561 min Scan# 1416
Delta R.T. -0.005 min
Lab File: 4D69919.D
Acq: 9 Jul 2016 3:10 pm

Tgt Ion: 78 Resp: 35130

Ion	Ratio	Lower	Upper
78	100		
77	22.7	0.0	53.0
52	14.9	0.0	46.1

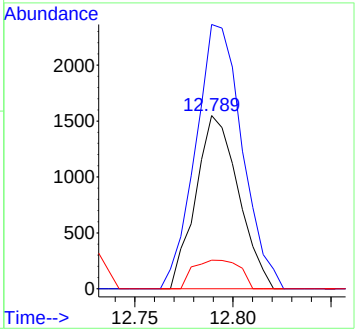


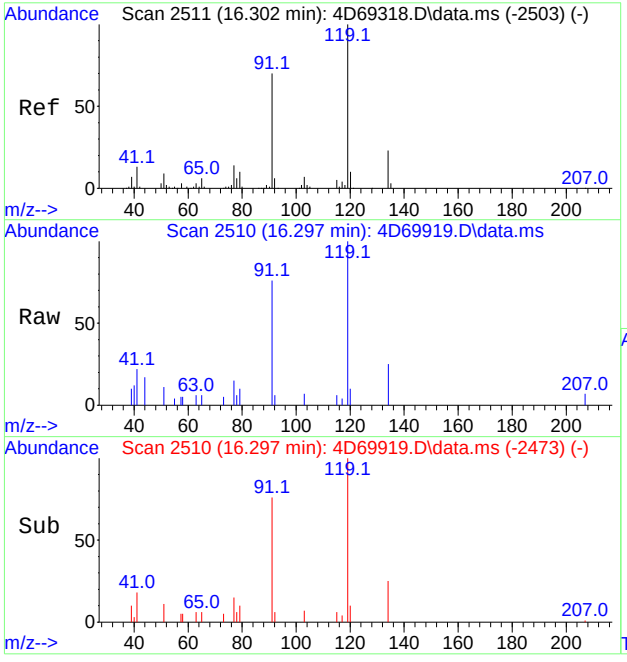


#80
toluene
Concen: 0.24 ug/L
RT: 12.789 min Scan# 1841
Delta R.T. -0.011 min
Lab File: 4D69919.D
Acq: 9 Jul 2016 3:10 pm

Tgt Ion: 92 Resp: 2347

Ion	Ratio	Lower	Upper
92	100		
91	152.6	142.0	202.0
65	16.6	0.0	49.8

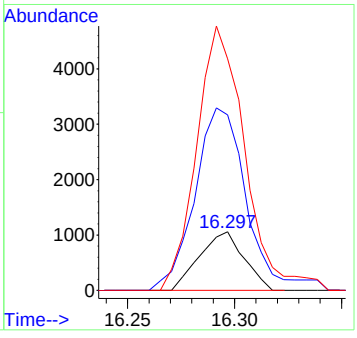


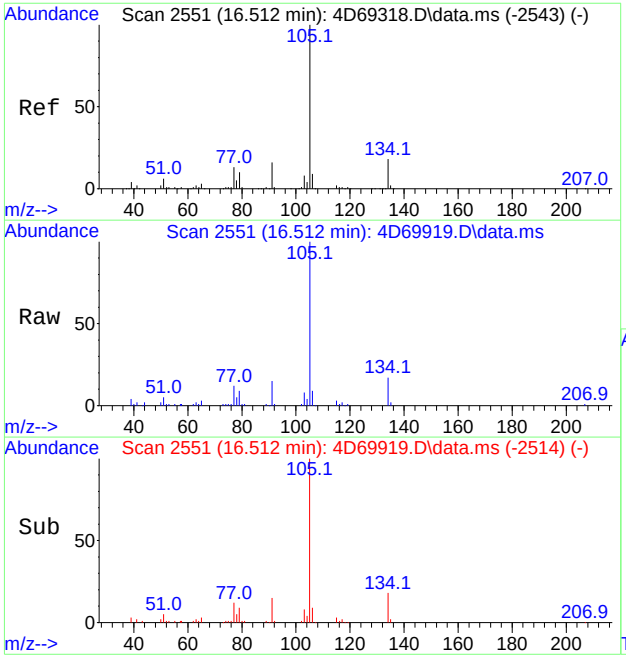


#113
tert-butylbenzene
Concen: 0.53 ug/L
RT: 16.297 min Scan# 2510
Delta R.T. -0.005 min
Lab File: 4D69919.D
Acq: 9 Jul 2016 3:10 pm

Tgt Ion:134 Resp: 1530

Ion	Ratio	Lower	Upper
134	100		
91	283.0	299.1	359.1#
119	395.2	438.9	498.9#

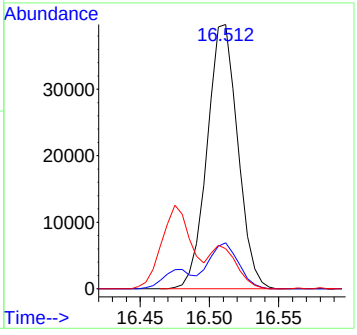


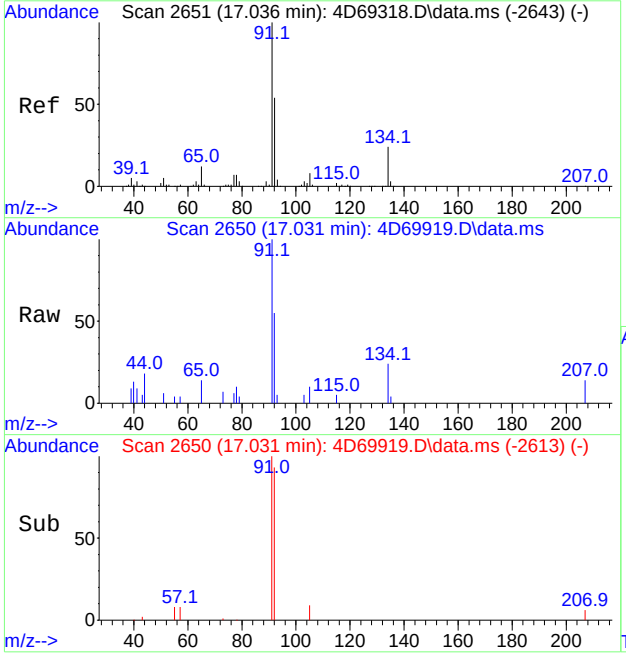


#116
sec-butylbenzene
Concen: 3.07 ug/L
RT: 16.512 min Scan# 2551
Delta R.T. -0.005 min
Lab File: 4D69919.D
Acq: 9 Jul 2016 3:10 pm

Tgt Ion:105 Resp: 60894

Ion	Ratio	Lower	Upper
105	100		
134	17.5	0.0	46.6
91	15.2	0.0	45.2

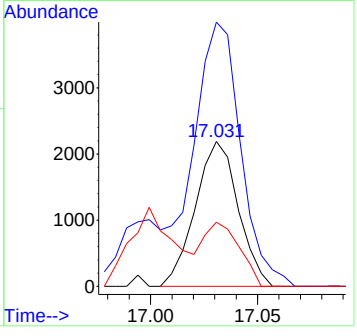


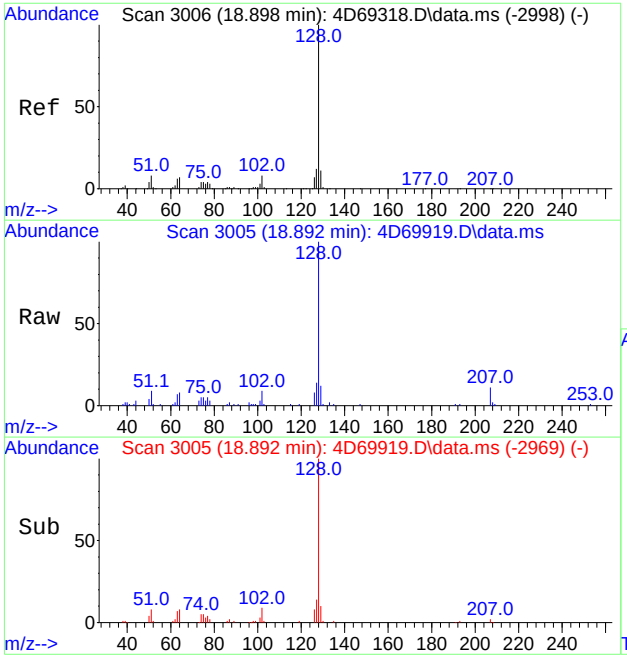


#121
n-butylbenzene
Concen: 0.34 ug/L
RT: 17.031 min Scan# 2650
Delta R.T. -0.005 min
Lab File: 4D69919.D
Acq: 9 Jul 2016 3:10 pm

Tgt Ion: 92 Resp: 3054

Ion	Ratio	Lower	Upper
92	100		
91	175.4	152.6	212.6
134	44.4	12.3	72.3

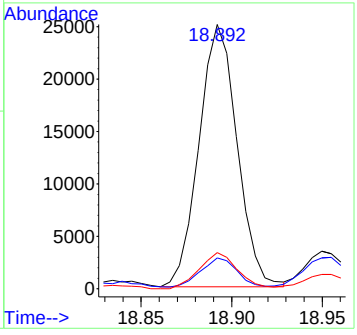




#126
naphthalene
Concen: 2.08 ug/L
RT: 18.892 min Scan# 3005
Delta R.T. -0.011 min
Lab File: 4D69919.D
Acq: 9 Jul 2016 3:10 pm

Tgt Ion:128 Resp: 36516

Ion	Ratio	Lower	Upper
128	100		
129	11.1	0.0	41.2
127	13.8	0.0	43.0



7.1.3

7

SGS ACCUTEST JC23588

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\4D\V4D3063\
Data File : 4D69920.D
Acq On : 9 Jul 2016 3:38 pm
Operator : XimenaC
Sample : jc23588-4
Misc : MS4402,V4D3063,5,,,,1
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Jul 12 09:17:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4D3034.M
Quant Title : METHOD SW-846 8260C , DB-624 60m x 0.25mm x 1.4 um
QLast Update : Tue Jul 12 08:25:41 2016
Response via : Initial Calibration

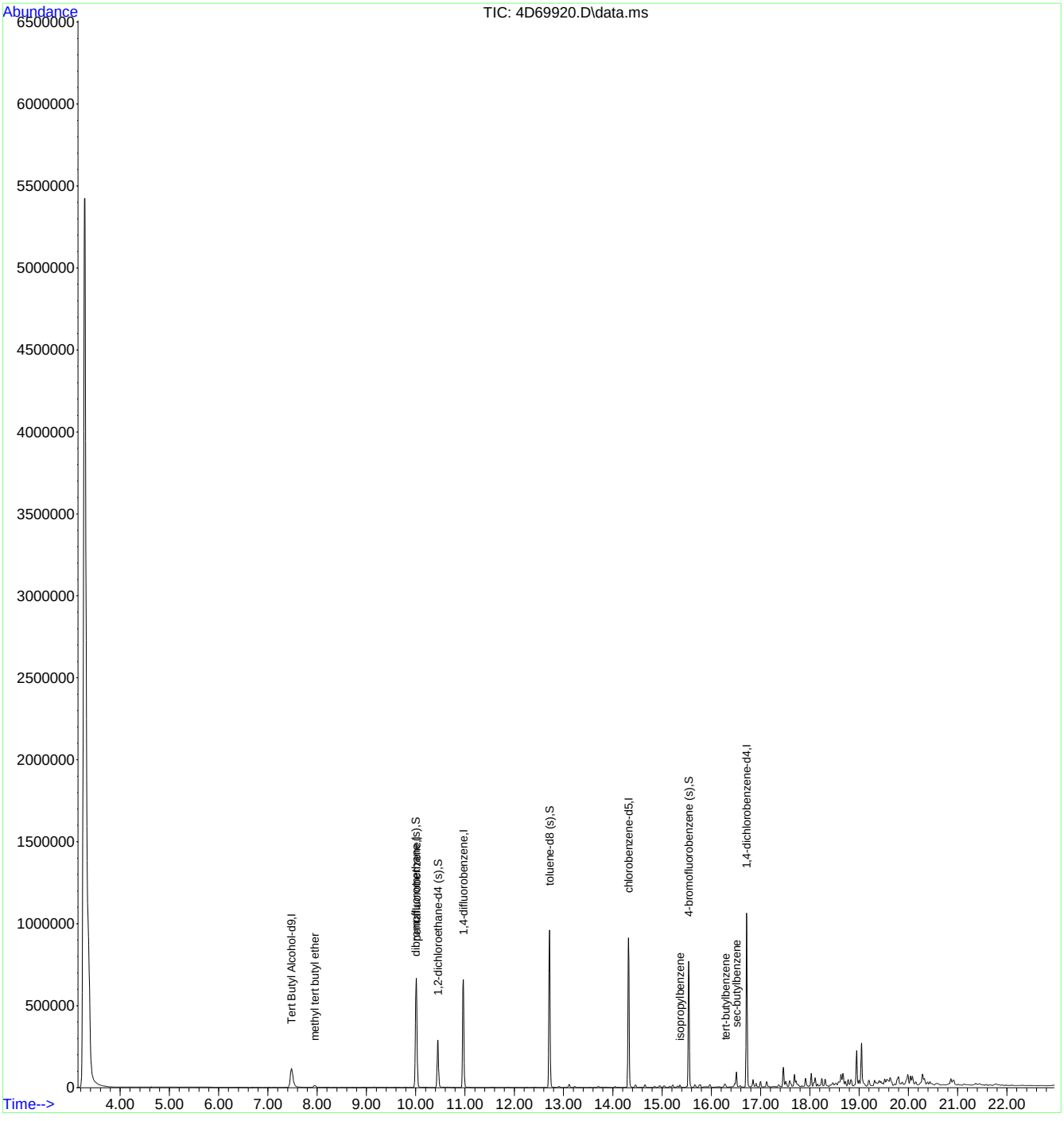
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Tert Butyl Alcohol-d9	7.478	65	272443	500.00 ug/L	-0.02
4) pentafluorobenzene	10.016	168	335845	50.00 ug/L	0.00
54) 1,4-difluorobenzene	10.965	114	538022	50.00 ug/L	-0.01
86) chlorobenzene-d5	14.320	117	497074	50.00 ug/L	0.00
101) 1,4-dichlorobenzene-d4	16.716	152	251460	50.00 ug/L	-0.01
System Monitoring Compounds					
48) dibromofluoromethane (s)	10.000	113	187774	49.93 ug/L	0.00
Spiked Amount 50.000	Range 76 - 120		Recovery = 99.86%		
49) 1,2-dichloroethane-d4 (s)	10.451	65	205862	49.04 ug/L	0.00
Spiked Amount 50.000	Range 73 - 122		Recovery = 98.08%		
78) toluene-d8 (s)	12.716	98	641817	51.77 ug/L	0.00
Spiked Amount 50.000	Range 84 - 119		Recovery = 103.54%		
103) 4-bromofluorobenzene (s)	15.542	95	258800	52.85 ug/L	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 105.70%		
Target Compounds					Qvalue
31) methyl tert butyl ether	7.950	73	18899	1.57 ug/L	98
102) isopropylbenzene	15.364	105	9559	0.53 ug/L	95
113) tert-butylbenzene	16.292	134	1160	0.41 ug/L	93
116) sec-butylbenzene	16.507	105	63548	3.23 ug/L	100

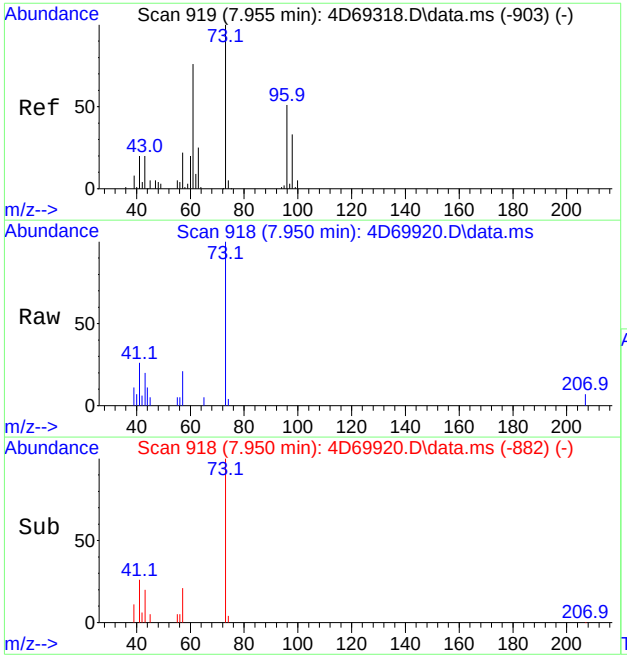
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\4D\V4D3063\
Data File : 4D69920.D
Acq On : 9 Jul 2016 3:38 pm
Operator : XimenaC
Sample : jc23588-4
Misc : MS4402,V4D3063,5,,,,1
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Jul 12 09:17:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4D3034.M
Quant Title : METHOD SW-846 8260C , DB-624 60m x 0.25mm x 1.4 um
QLast Update : Tue Jul 12 08:25:41 2016
Response via : Initial Calibration

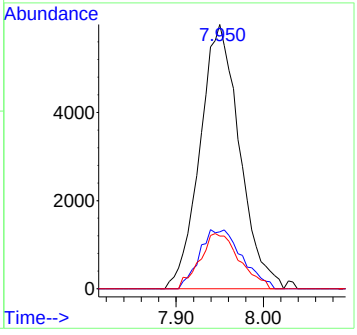


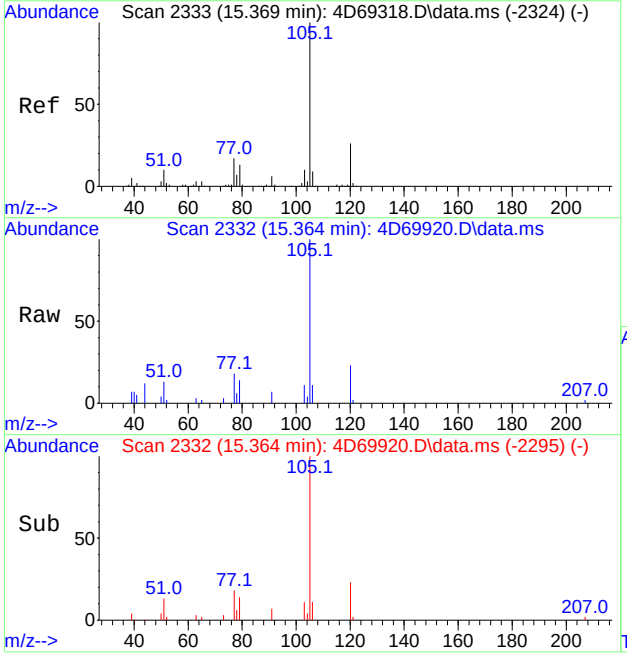


#31
methyl tert butyl ether
Concen: 1.57 ug/L
RT: 7.950 min Scan# 918
Delta R.T. -0.010 min
Lab File: 4D69920.D
Acq: 9 Jul 2016 3:38 pm

Tgt Ion: 73 Resp: 18899

Ion	Ratio	Lower	Upper
73	100		
57	21.5	0.0	52.5
43	20.0	0.0	49.6

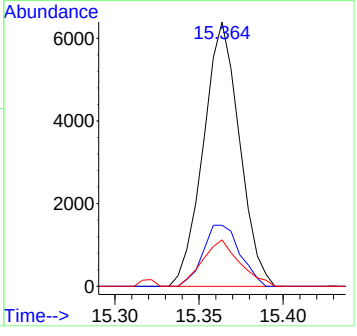


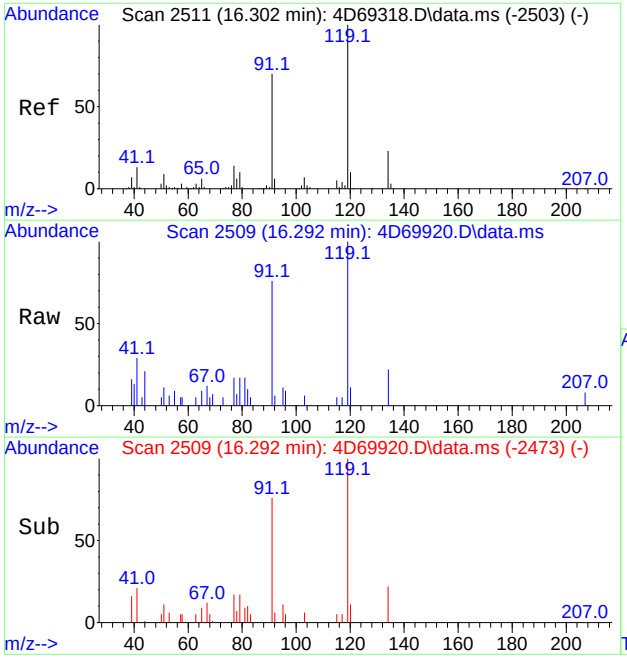


#102
isopropylbenzene
Concen: 0.53 ug/L
RT: 15.364 min Scan# 2332
Delta R.T. -0.005 min
Lab File: 4D69920.D
Acq: 9 Jul 2016 3:38 pm

Tgt Ion:105 Resp: 9559

Ion	Ratio	Lower	Upper
105	100		
120	23.1	0.0	55.2
77	17.6	0.0	45.4

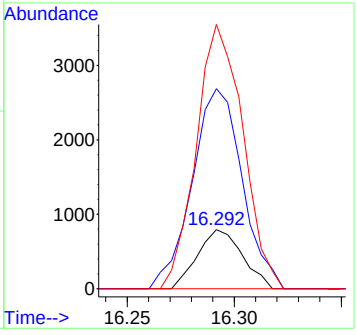


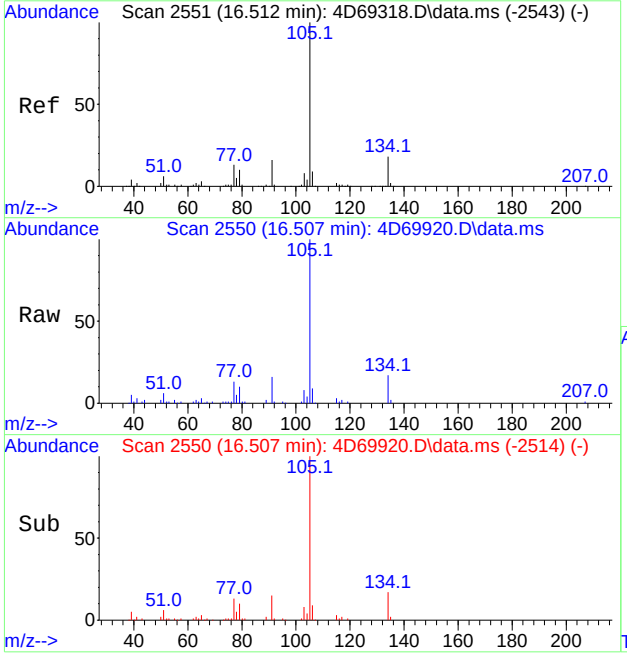


#113
tert-butylbenzene
Concen: 0.41 ug/L
RT: 16.292 min Scan# 2509
Delta R.T. -0.010 min
Lab File: 4D69920.D
Acq: 9 Jul 2016 3:38 pm

Tgt Ion:134 Resp: 1160

Ion	Ratio	Lower	Upper
134	100		
91	337.7	299.1	359.1
119	446.0	438.9	498.9

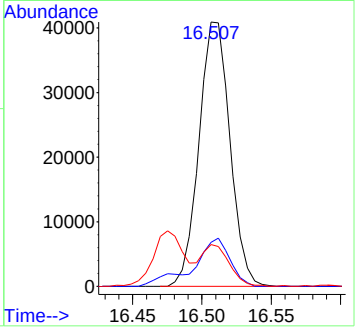




#116
sec-butylbenzene
Concen: 3.23 ug/L
RT: 16.507 min Scan# 2550
Delta R.T. -0.010 min
Lab File: 4D69920.D
Acq: 9 Jul 2016 3:38 pm

Tgt Ion:105 Resp: 63548

Ion	Ratio	Lower	Upper
105	100		
134	16.6	0.0	46.6
91	15.4	0.0	45.2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\4D\V4D3063\
Data File : 4D69916.D
Acq On : 9 Jul 2016 1:46 pm
Operator : XimenaC
Sample : jc23588-5
Misc : MS4402,V4D3063,5,,,,1
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Jul 12 09:10:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4D3034.M
Quant Title : METHOD SW-846 8260C , DB-624 60m x 0.25mm x 1.4 um
QLast Update : Tue Jul 12 08:25:41 2016
Response via : Initial Calibration

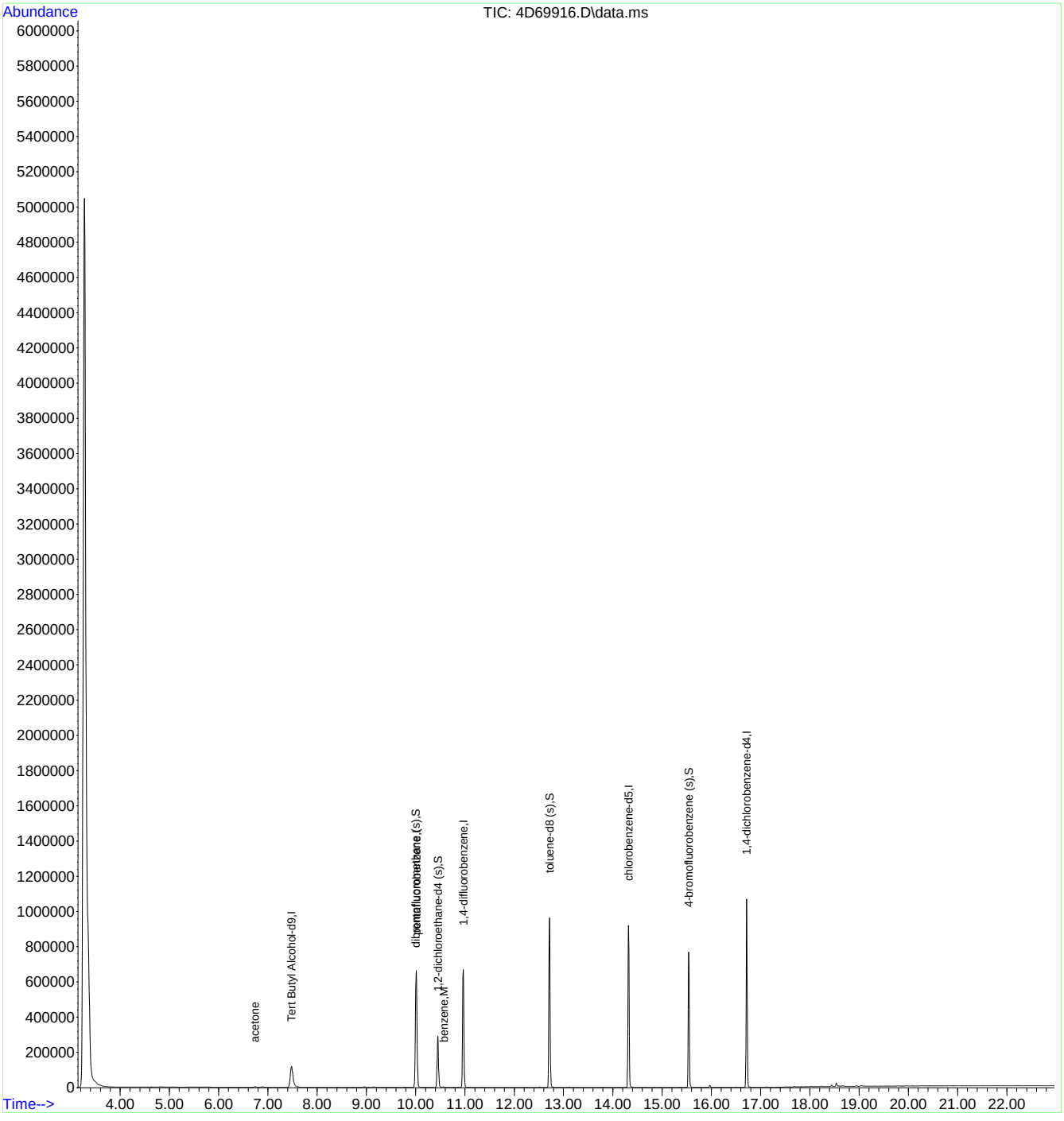
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Tert Butyl Alcohol-d9	7.478	65	277860	500.00 ug/L	-0.02
4) pentafluorobenzene	10.016	168	337846	50.00 ug/L	0.00
54) 1,4-difluorobenzene	10.965	114	543526	50.00 ug/L	-0.01
86) chlorobenzene-d5	14.320	117	498155	50.00 ug/L	0.00
101) 1,4-dichlorobenzene-d4	16.716	152	248008	50.00 ug/L	-0.01
System Monitoring Compounds					
48) dibromofluoromethane (s)	10.000	113	186469	49.28 ug/L	-0.01
Spiked Amount 50.000	Range 76 - 120		Recovery = 98.56%		
49) 1,2-dichloroethane-d4 (s)	10.451	65	204866	48.51 ug/L	0.00
Spiked Amount 50.000	Range 73 - 122		Recovery = 97.02%		
78) toluene-d8 (s)	12.716	98	641584	51.23 ug/L	0.00
Spiked Amount 50.000	Range 84 - 119		Recovery = 102.46%		
103) 4-bromofluorobenzene (s)	15.542	95	256193	53.05 ug/L	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 106.10%		
Target Compounds					Qvalue
22) acetone	6.734	58	3012	6.50 ug/L	98
62) benzene	10.566	78	3453	0.21 ug/L	97

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

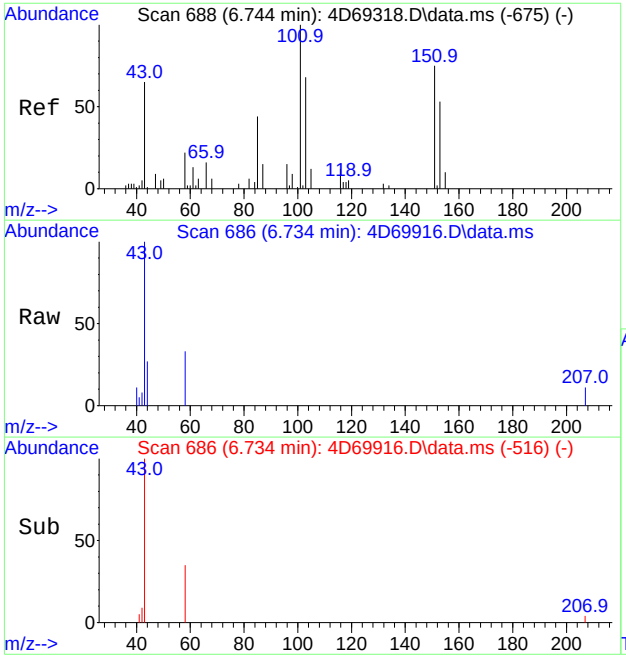
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\4D\V4D3063\
Data File : 4D69916.D
Acq On : 9 Jul 2016 1:46 pm
Operator : XimenaC
Sample : jc23588-5
Misc : MS4402,V4D3063,5,,,,1
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Jul 12 09:10:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4D3034.M
Quant Title : METHOD SW-846 8260C , DB-624 60m x 0.25mm x 1.4 um
QLast Update : Tue Jul 12 08:25:41 2016
Response via : Initial Calibration



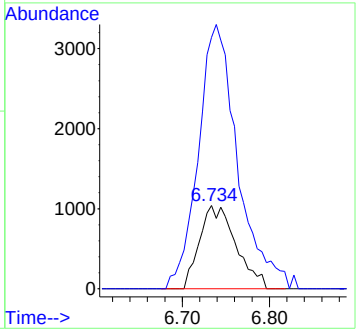
SGS ACCUTEST JC23588

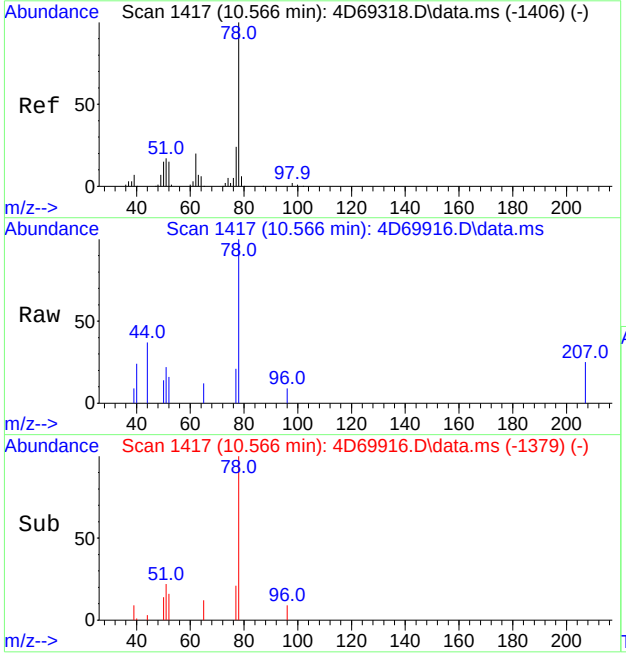


#22
acetone
Concen: 6.50 ug/L
RT: 6.734 min Scan# 686
Delta R.T. -0.010 min
Lab File: 4D69916.D
Acq: 9 Jul 2016 1:46 pm

Tgt Ion: 58 Resp: 3012

Ion	Ratio	Lower	Upper
58	100		
43	302.2	267.5	327.5

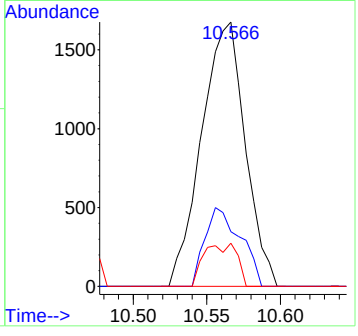




#62
benzene
Concen: 0.21 ug/L
RT: 10.566 min Scan# 1417
Delta R.T. 0.000 min
Lab File: 4D69916.D
Acq: 9 Jul 2016 1:46 pm

Tgt Ion: 78 Resp: 3453

Ion	Ratio	Lower	Upper
78	100		
77	20.8	0.0	53.0
52	16.3	0.0	46.1



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\4D\V4D3064\
Data File : 4D69954.D
Acq On : 11 Jul 2016 8:37 pm
Operator : XimenaC
Sample : jc23588-6
Misc : MS4402,V4D3064,5,,,,1
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 12 14:53:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4D3034.M
Quant Title : METHOD SW-846 8260C , DB-624 60m x 0.25mm x 1.4 um
QLast Update : Tue Jun 07 11:30:08 2016
Response via : Initial Calibration

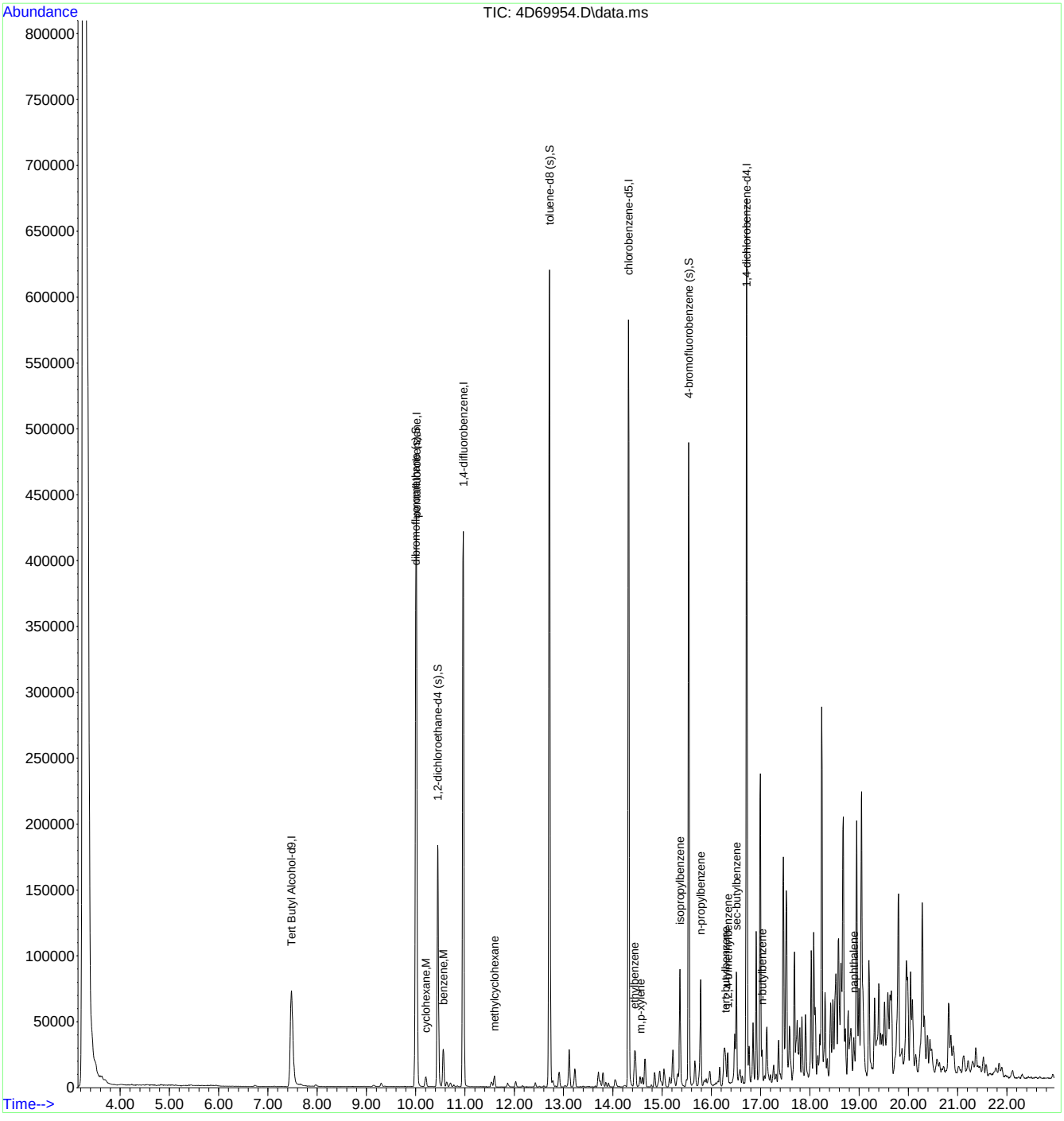
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Tert Butyl Alcohol-d9	7.478	65	172069	500.00 ug/L	-0.02
4) pentafluorobenzene	10.016	168	224752	50.00 ug/L	0.00
54) 1,4-difluorobenzene	10.965	114	349527	50.00 ug/L	-0.01
86) chlorobenzene-d5	14.320	117	313252	50.00 ug/L	0.00
101) 1,4-dichlorobenzene-d4	16.716	152	160199	50.00 ug/L	-0.01
System Monitoring Compounds					
48) dibromofluoromethane (s)	10.000	113	119219	47.37 ug/L	0.00
Spiked Amount 50.000	Range 76 - 120		Recovery = 94.74%		
49) 1,2-dichloroethane-d4 (s)	10.446	65	129855	46.22 ug/L	-0.01
Spiked Amount 50.000	Range 73 - 122		Recovery = 92.44%		
78) toluene-d8 (s)	12.716	98	410816	51.01 ug/L	0.00
Spiked Amount 50.000	Range 84 - 119		Recovery = 102.02%		
103) 4-bromofluorobenzene (s)	15.542	95	159341	51.08 ug/L	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 102.16%		
Target Compounds					Qvalue
57) cyclohexane	10.204	84	2925	0.87 ug/L #	37
62) benzene	10.561	78	26601	2.57 ug/L	97
73) methylcyclohexane	11.599	83	3535	0.95 ug/L	94
95) ethylbenzene	14.441	91	13457	1.11 ug/L	95
96) m,p-xylene	14.561	106	2366	0.52 ug/L	98
102) isopropylbenzene	15.364	105	57960	5.09 ug/L	99
109) n-propylbenzene	15.783	91	50990	3.71 ug/L	100
113) tert-butylbenzene	16.292	134	1666	0.91 ug/L	95
115) 1,2,4-trimethylbenzene	16.334	105	13384	1.33 ug/L	92
116) sec-butylbenzene	16.512	105	56867	4.53 ug/L	98
121) n-butylbenzene	17.031	92	7120	1.27 ug/L	94
126) naphthalene	18.892	128	17133	1.54 ug/L	96

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

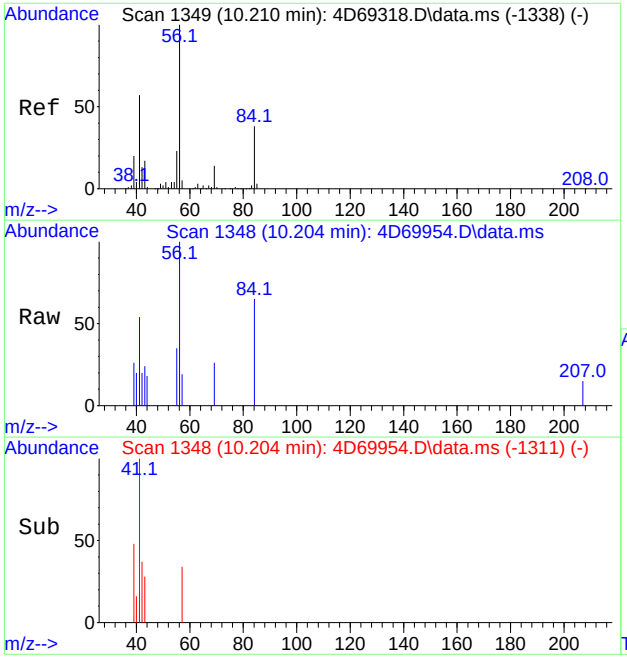
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\4D\V4D3064\
Data File : 4D69954.D
Acq On : 11 Jul 2016 8:37 pm
Operator : XimenaC
Sample : jc23588-6
Misc : MS4402,V4D3064,5,,,,1
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 12 14:53:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4D3034.M
Quant Title : METHOD SW-846 8260C , DB-624 60m x 0.25mm x 1.4 um
QLast Update : Tue Jun 07 11:30:08 2016
Response via : Initial Calibration



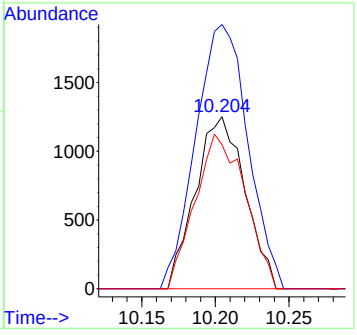
M4D3034.M Tue Jul 12 14:59:18 2016 Page: 2

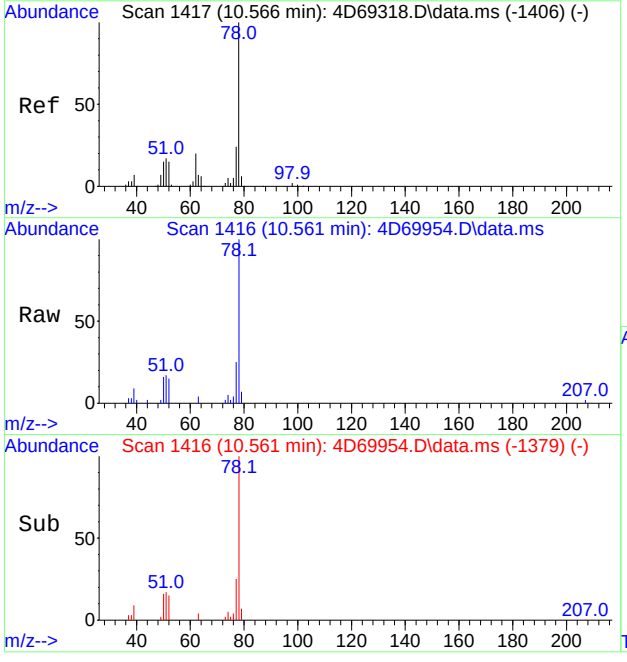


#57
cyclohexane
Concen: 0.87 ug/L
RT: 10.204 min Scan# 1348
Delta R.T. -0.006 min
Lab File: 4D69954.D
Acq: 11 Jul 2016 8:37 pm

Tgt Ion: 84 Resp: 2925

Ion	Ratio	Lower	Upper
84	100		
56	153.6	247.4	307.4#
41	83.6	131.0	191.0#

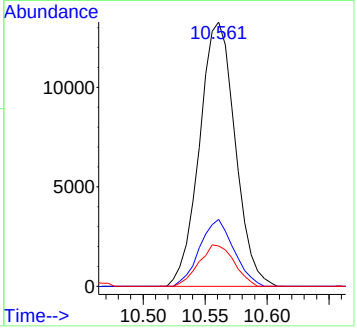


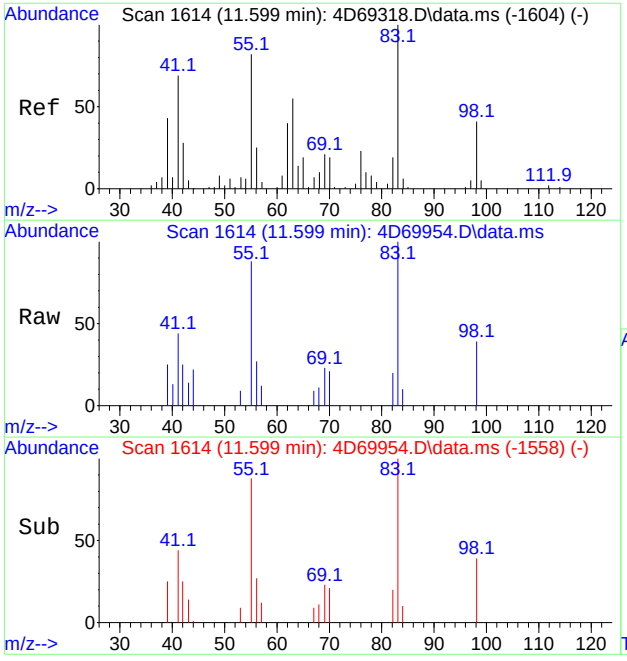


#62
benzene
Concen: 2.57 ug/L
RT: 10.561 min Scan# 1416
Delta R.T. -0.005 min
Lab File: 4D69954.D
Acq: 11 Jul 2016 8:37 pm

Tgt Ion: 78 Resp: 26601

Ion	Ratio	Lower	Upper
78	100		
77	25.4	0.0	53.6
52	15.3	0.0	46.1

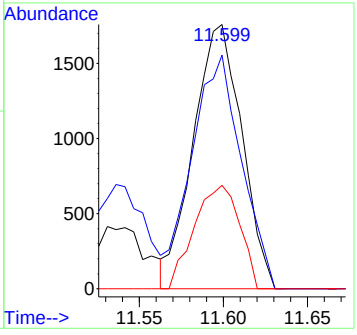


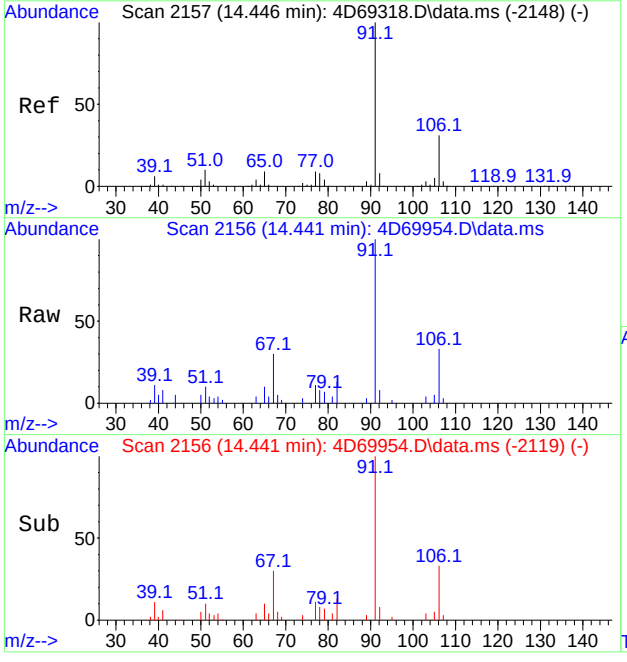


#73
methylcyclohexane
Concen: 0.95 ug/L
RT: 11.599 min Scan# 1614
Delta R.T. -0.005 min
Lab File: 4D69954.D
Acq: 11 Jul 2016 8:37 pm

Tgt Ion: 83 Resp: 3535

Ion	Ratio	Lower	Upper
83	100		
55	88.4	51.3	111.3
98	39.1	11.0	71.0

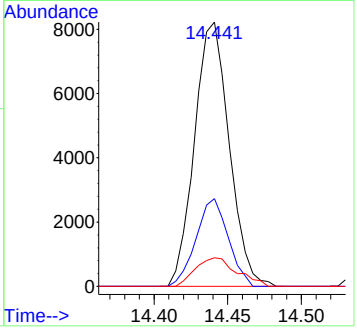


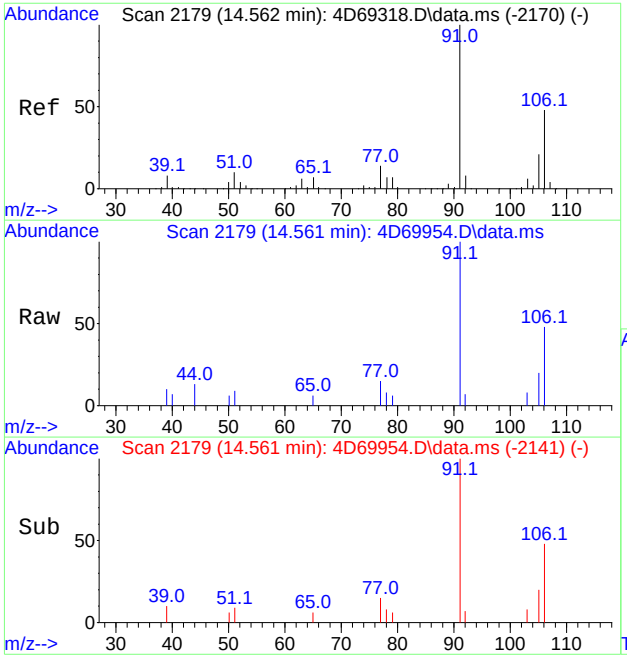


#95
ethylbenzene
Concen: 1.11 ug/L
RT: 14.441 min Scan# 2156
Delta R.T. -0.005 min
Lab File: 4D69954.D
Acq: 11 Jul 2016 8:37 pm

Tgt Ion: 91 Resp: 13457

Ion	Ratio	Lower	Upper
91	100		
106	33.2	0.6	60.6
77	10.8	0.0	38.6

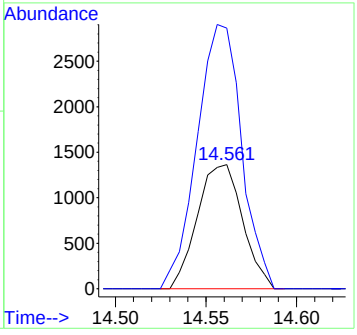


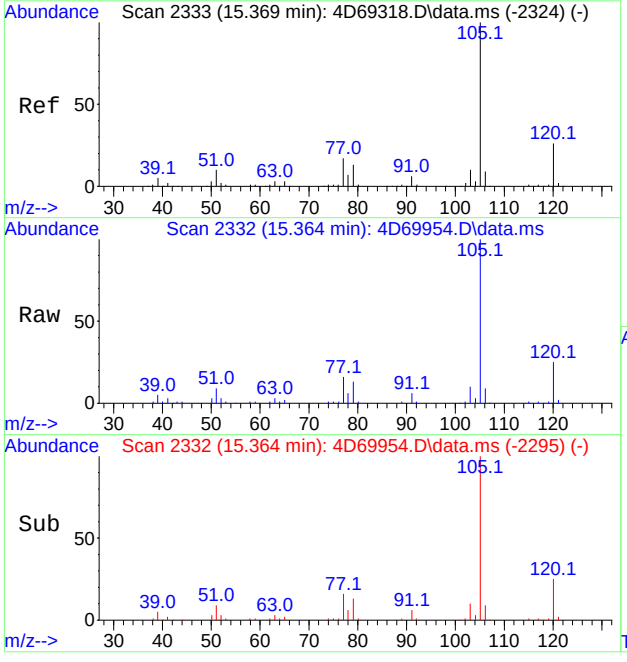


#96
m,p-xylene
Concen: 0.52 ug/L
RT: 14.561 min Scan# 2179
Delta R.T. 0.000 min
Lab File: 4D69954.D
Acq: 11 Jul 2016 8:37 pm

Tgt Ion:106 Resp: 2366

Ion	Ratio	Lower	Upper
106	100		
91	209.8	144.9	269.1

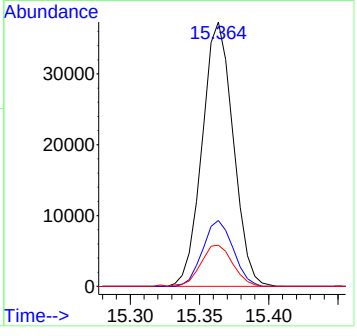


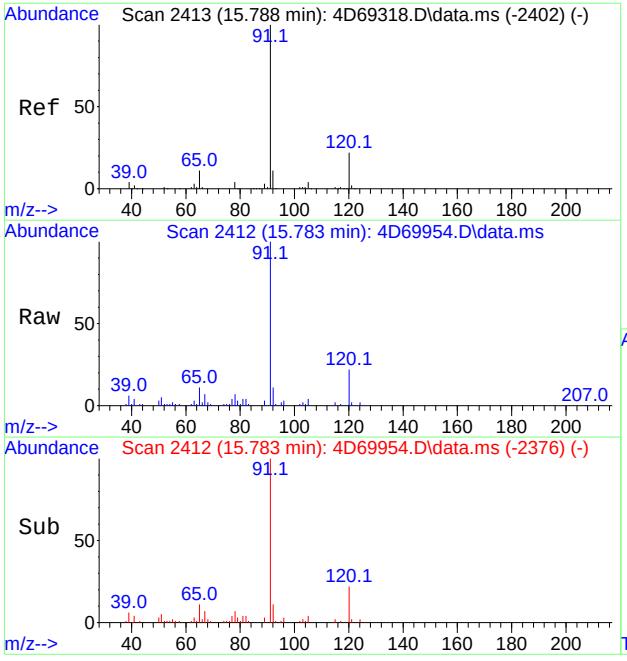


#102
isopropylbenzene
Concen: 5.09 ug/L
RT: 15.364 min Scan# 2332
Delta R.T. -0.005 min
Lab File: 4D69954.D
Acq: 11 Jul 2016 8:37 pm

Tgt Ion:105 Resp: 57960

Ion	Ratio	Lower	Upper
105	100		
120	24.9	0.0	55.3
77	15.6	0.0	46.3

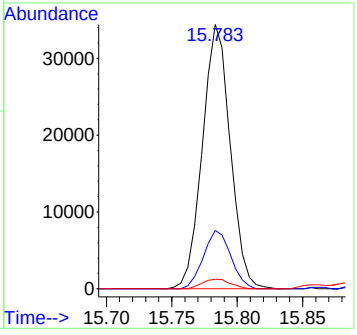


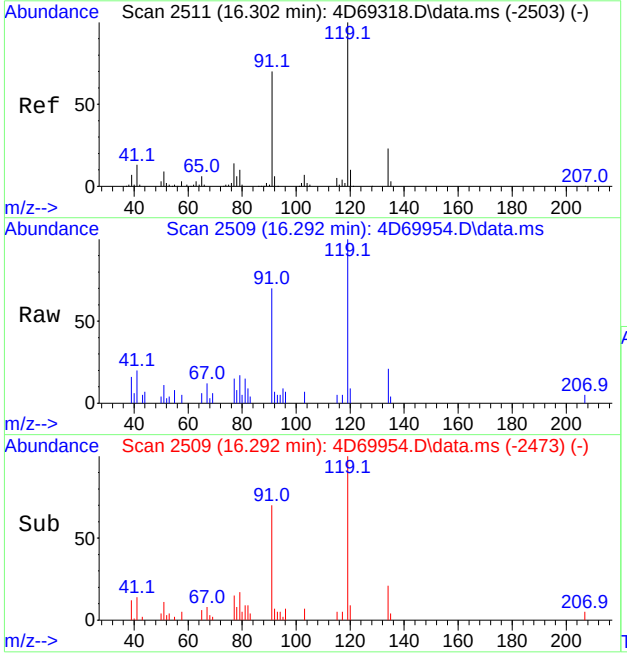


#109
n-propylbenzene
Concen: 3.71 ug/L
RT: 15.783 min Scan# 2412
Delta R.T. -0.010 min
Lab File: 4D69954.D
Acq: 11 Jul 2016 8:37 pm

Tgt Ion: 91 Resp: 50990

Ion	Ratio	Lower	Upper
91	100		
120	22.1	0.0	52.0
105	3.6	0.0	33.6

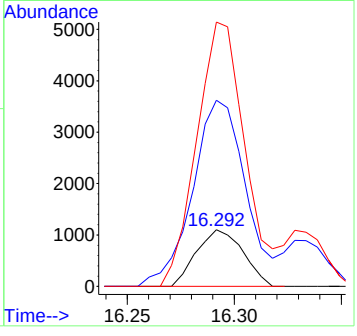


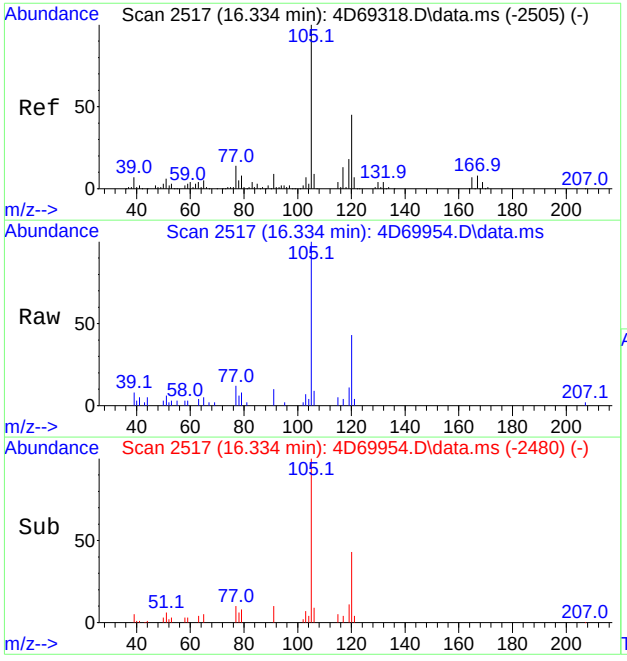


#113
tert-butylbenzene
Concen: 0.91 ug/L
RT: 16.292 min Scan# 2509
Delta R.T. -0.010 min
Lab File: 4D69954.D
Acq: 11 Jul 2016 8:37 pm

Tgt Ion:134 Resp: 1666

Ion	Ratio	Lower	Upper
134	100		
91	304.5	288.3	348.3
119	466.5	426.0	486.0

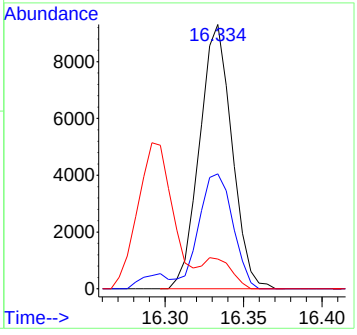


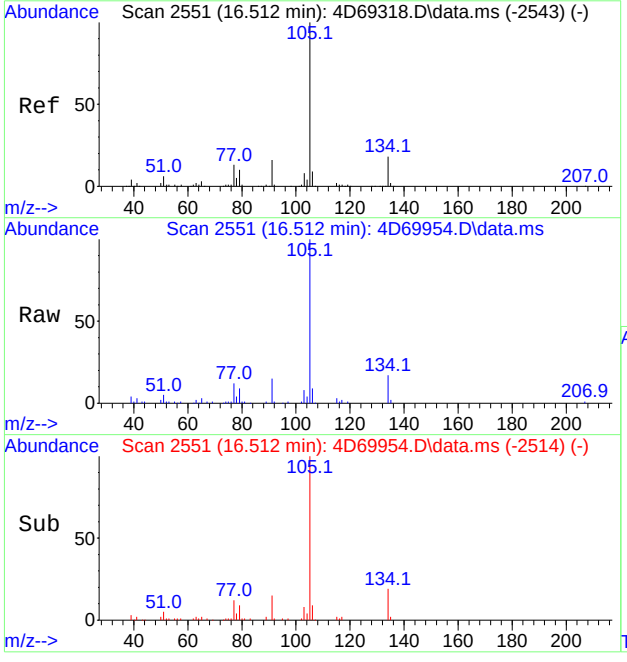


#115
1,2,4-trimethylbenzene
Concen: 1.33 ug/L
RT: 16.334 min Scan# 2517
Delta R.T. -0.005 min
Lab File: 4D69954.D
Acq: 11 Jul 2016 8:37 pm

Tgt Ion:105 Resp: 13384

Ion	Ratio	Lower	Upper
105	100		
120	43.5	14.4	74.4
119	11.3	0.0	51.4

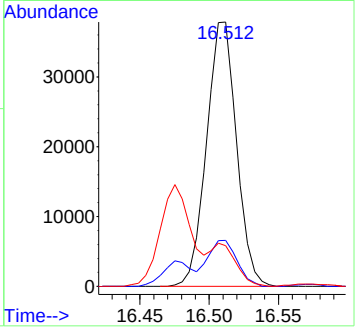


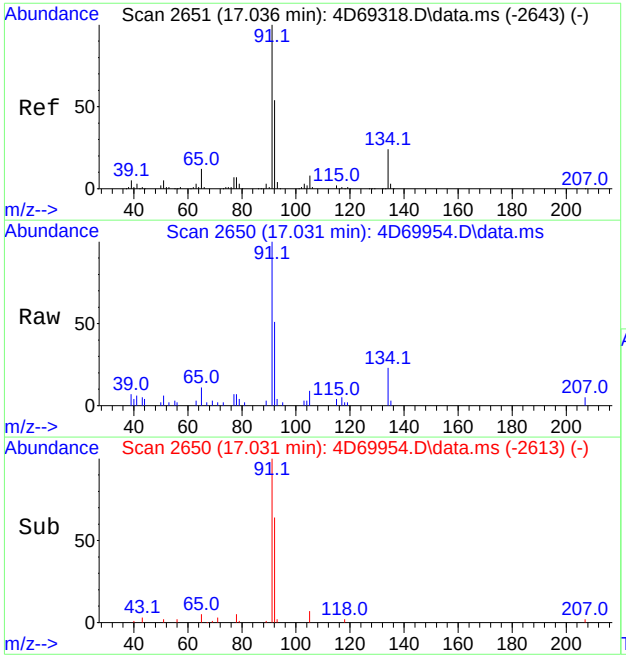


#116
sec-butylbenzene
Concen: 4.53 ug/L
RT: 16.512 min Scan# 2551
Delta R.T. -0.005 min
Lab File: 4D69954.D
Acq: 11 Jul 2016 8:37 pm

Tgt Ion:105 Resp: 56867

Ion	Ratio	Lower	Upper
105	100		
134	17.4	0.0	47.8
91	14.9	0.0	46.1

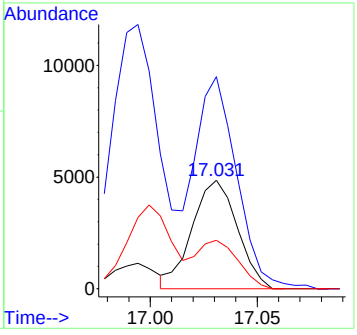


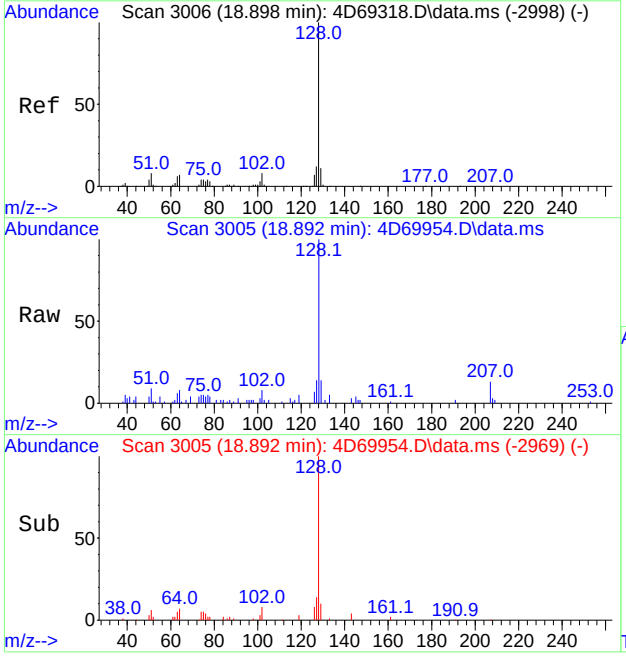


#121
n-butylbenzene
Concen: 1.27 ug/L
RT: 17.031 min Scan# 2650
Delta R.T. -0.005 min
Lab File: 4D69954.D
Acq: 11 Jul 2016 8:37 pm

Tgt Ion: 92 Resp: 7120

Ion	Ratio	Lower	Upper
92	100		
91	190.9	152.4	212.4
134	44.8	12.4	72.4

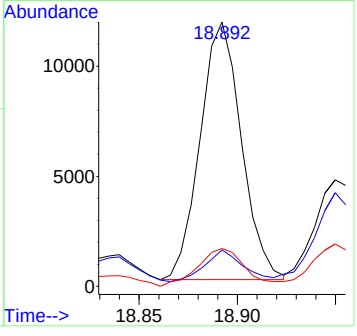




#126
naphthalene
Concen: 1.54 ug/L
RT: 18.892 min Scan# 3005
Delta R.T. -0.011 min
Lab File: 4D69954.D
Acq: 11 Jul 2016 8:37 pm

Tgt Ion:128 Resp: 17133

Ion	Ratio	Lower	Upper
128	100		
129	11.7	0.0	40.8
127	14.7	0.0	42.9



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\4D\V4D3063\
Data File : 4D69917.D
Acq On : 9 Jul 2016 2:14 pm
Operator : XimenaC
Sample : jc23588-7
Misc : MS4402,V4D3063,5,,,,1
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Jul 12 09:12:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4D3034.M
Quant Title : METHOD SW-846 8260C , DB-624 60m x 0.25mm x 1.4 um
QLast Update : Tue Jul 12 08:25:41 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Tert Butyl Alcohol-d9	7.478	65	258562	500.00 ug/L	-0.02
4) pentafluorobenzene	10.016	168	326197	50.00 ug/L	0.00
54) 1,4-difluorobenzene	10.965	114	528537	50.00 ug/L	-0.01
86) chlorobenzene-d5	14.320	117	482428	50.00 ug/L	0.00
101) 1,4-dichlorobenzene-d4	16.716	152	244301	50.00 ug/L	-0.01
System Monitoring Compounds					
48) dibromofluoromethane (s)	10.000	113	182308	49.91 ug/L	0.00
Spiked Amount 50.000	Range 76 - 120		Recovery = 99.82%		
49) 1,2-dichloroethane-d4 (s)	10.451	65	198876	48.77 ug/L	0.00
Spiked Amount 50.000	Range 73 - 122		Recovery = 97.54%		
78) toluene-d8 (s)	12.716	98	625935	51.40 ug/L	0.00
Spiked Amount 50.000	Range 84 - 119		Recovery = 102.80%		
103) 4-bromofluorobenzene (s)	15.542	95	248611	52.26 ug/L	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 104.52%		
Target Compounds					Qvalue
62) benzene	10.561	78	27317	1.74 ug/L	99
102) isopropylbenzene	15.364	105	7836	0.45 ug/L	99
109) n-propylbenzene	15.788	91	4683	0.22 ug/L	97
115) 1,2,4-trimethylbenzene	16.334	105	21728	1.41 ug/L	91

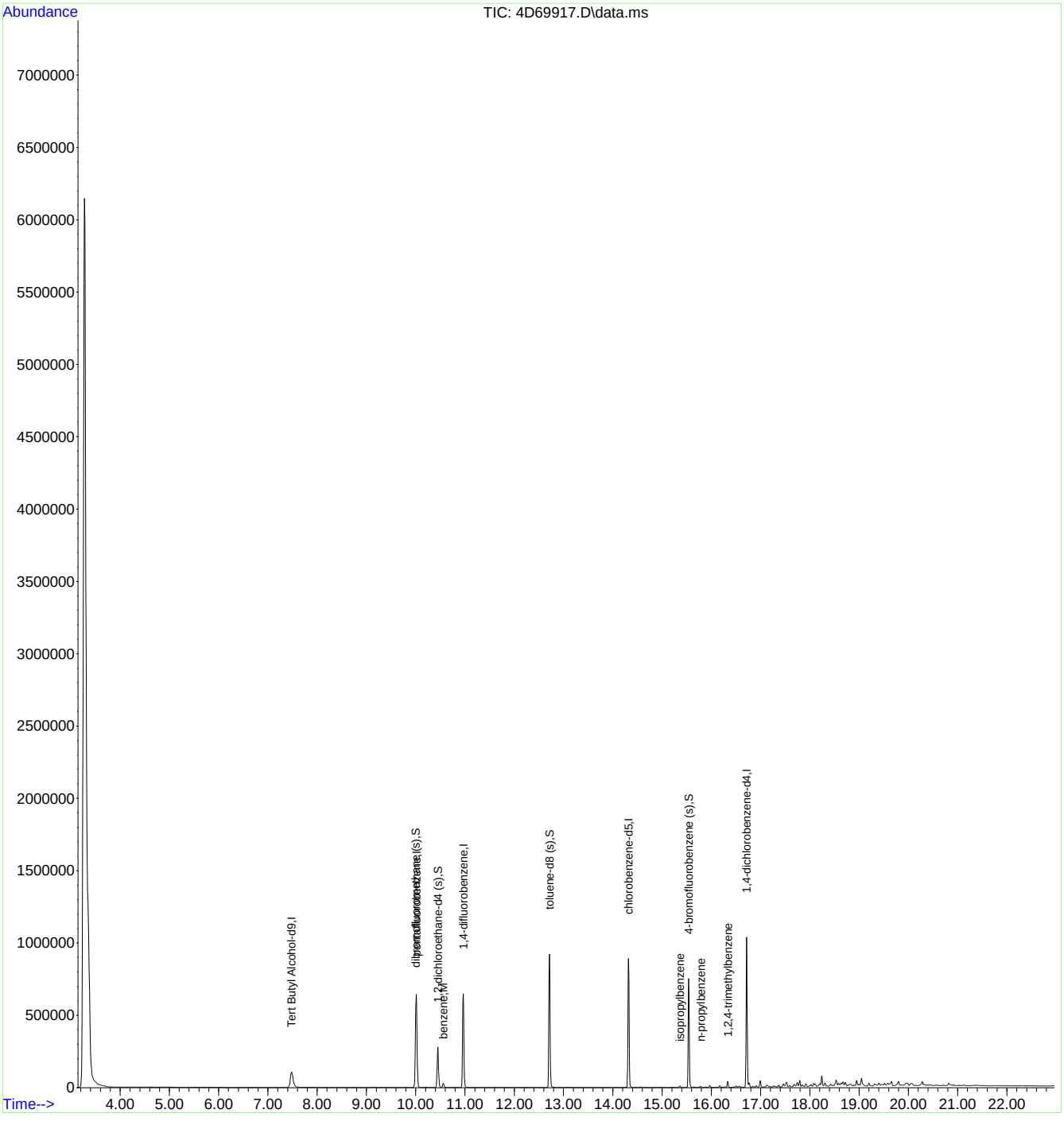
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.7

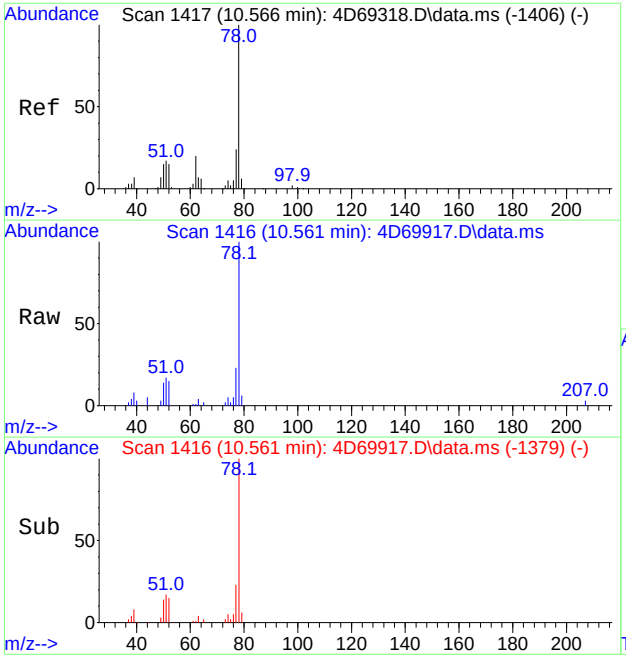
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\4D\V4D3063\
Data File : 4D69917.D
Acq On : 9 Jul 2016 2:14 pm
Operator : XimenaC
Sample : jc23588-7
Misc : MS4402,V4D3063,5,,,,1
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Jul 12 09:12:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4D3034.M
Quant Title : METHOD SW-846 8260C , DB-624 60m x 0.25mm x 1.4 um
QLast Update : Tue Jul 12 08:25:41 2016
Response via : Initial Calibration



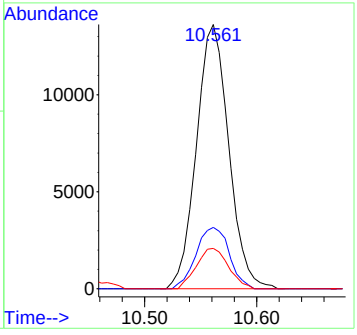
SGS ACCUTEST JC23588

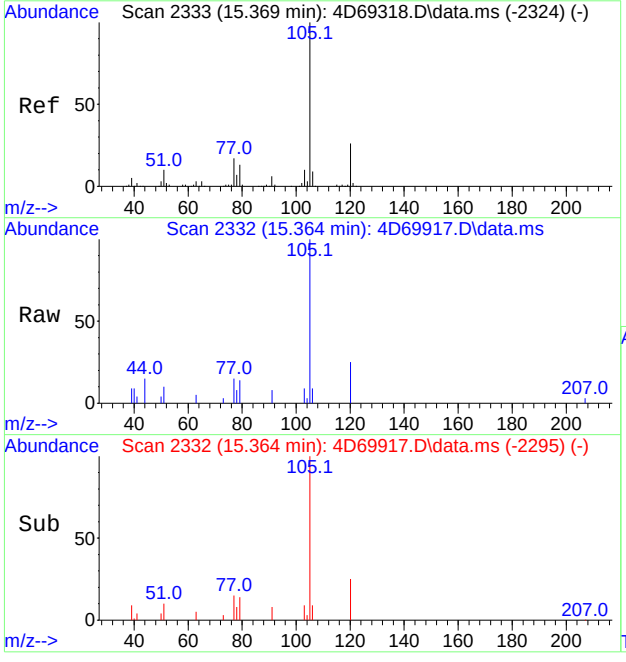


#62
benzene
Concen: 1.74 ug/L
RT: 10.561 min Scan# 1416
Delta R.T. -0.005 min
Lab File: 4D69917.D
Acq: 9 Jul 2016 2:14 pm

Tgt Ion: 78 Resp: 27317

Ion	Ratio	Lower	Upper
78	100		
77	23.2	0.0	53.0
52	15.3	0.0	46.1

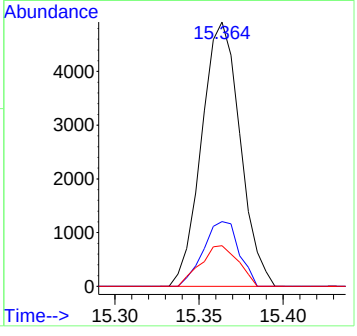


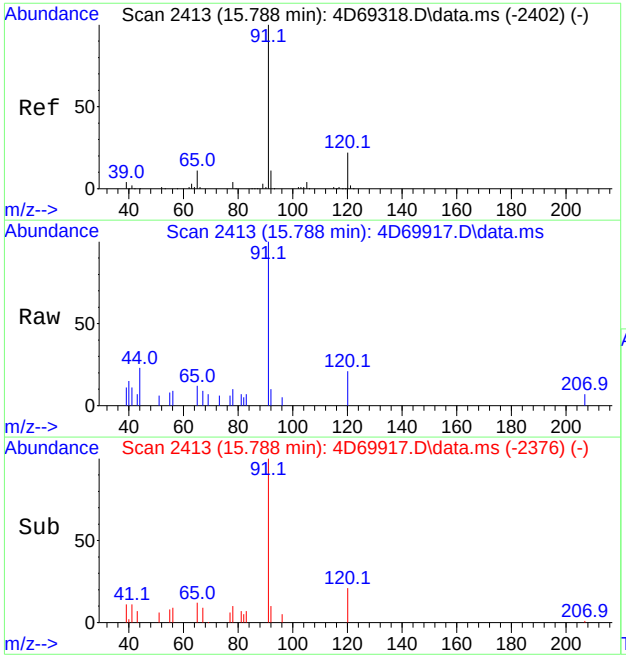


#102
isopropylbenzene
Concen: 0.45 ug/L
RT: 15.364 min Scan# 2332
Delta R.T. -0.005 min
Lab File: 4D69917.D
Acq: 9 Jul 2016 2:14 pm

Tgt Ion:105 Resp: 7836

Ion	Ratio	Lower	Upper
105	100		
120	24.5	0.0	55.2
77	15.3	0.0	45.4

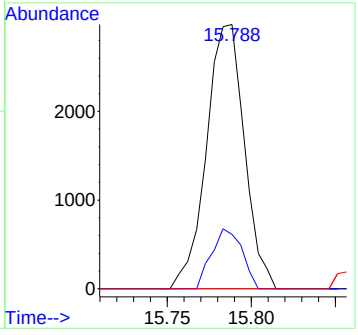


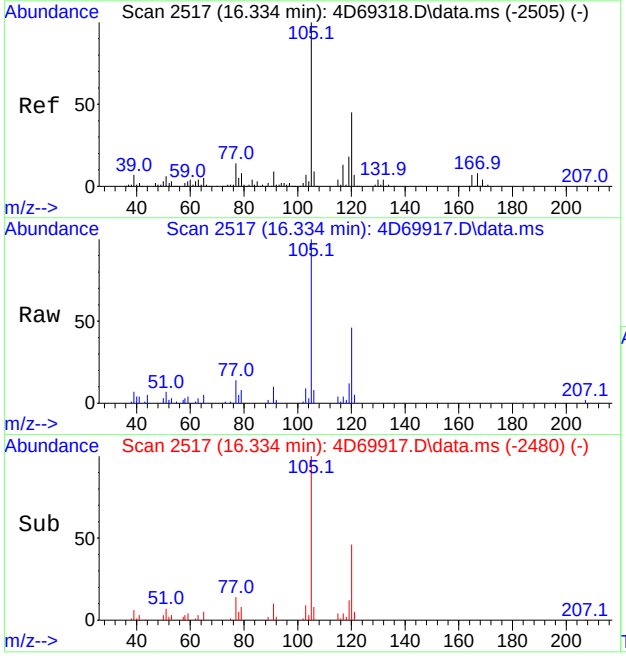


#109
n-propylbenzene
Concen: 0.22 ug/L
RT: 15.788 min Scan# 2413
Delta R.T. -0.005 min
Lab File: 4D69917.D
Acq: 9 Jul 2016 2:14 pm

Tgt Ion: 91 Resp: 4683

Ion	Ratio	Lower	Upper
91	100		
120	20.6	0.0	51.1
105	0.0	0.0	33.6

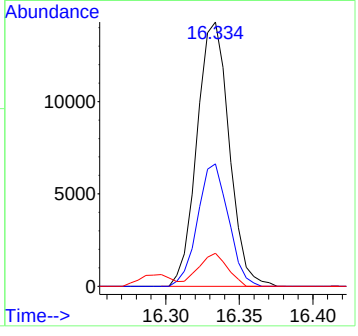




#115
1,2,4-trimethylbenzene
Concen: 1.41 ug/L
RT: 16.334 min Scan# 2517
Delta R.T. -0.005 min
Lab File: 4D69917.D
Acq: 9 Jul 2016 2:14 pm

Tgt Ion:105 Resp: 21728

Ion	Ratio	Lower	Upper
105	100		
120	46.4	16.6	76.6
119	12.5	0.0	54.7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\4D\V4D3064\
Data File : 4D69955.D
Acq On : 11 Jul 2016 9:05 pm
Operator : XimenaC
Sample : jc23588-8
Misc : MS4402,V4D3064,5,,,,1
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 12 14:55:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4D3034.M
Quant Title : METHOD SW-846 8260C , DB-624 60m x 0.25mm x 1.4 um
QLast Update : Tue Jun 07 11:30:08 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.478	65	168405	500.00	ug/L	-0.02
4) pentafluorobenzene	10.016	168	221140	50.00	ug/L	0.00
54) 1,4-difluorobenzene	10.965	114	340585	50.00	ug/L	-0.01
86) chlorobenzene-d5	14.320	117	309038	50.00	ug/L	0.00
101) 1,4-dichlorobenzene-d4	16.716	152	160023	50.00	ug/L	-0.01
System Monitoring Compounds						
48) dibromofluoromethane (s)	10.000	113	115891	46.80	ug/L	-0.01
Spiked Amount 50.000	Range 76 - 120		Recovery = 93.60%			
49) 1,2-dichloroethane-d4 (s)	10.446	65	127065	45.97	ug/L	-0.01
Spiked Amount 50.000	Range 73 - 122		Recovery = 91.94%			
78) toluene-d8 (s)	12.716	98	397896	50.70	ug/L	0.00
Spiked Amount 50.000	Range 84 - 119		Recovery = 101.40%			
103) 4-bromofluorobenzene (s)	15.542	95	158131	50.75	ug/L	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 101.50%			
Target Compounds						Qvalue
62) benzene	10.561	78	12520	1.24	ug/L	97
102) isopropylbenzene	15.364	105	13315	1.17	ug/L	96
109) n-propylbenzene	15.788	91	6214	0.45	ug/L	95
112) 1,3,5-trimethylbenzene	15.940	105	3423	0.35	ug/L	98
113) tert-butylbenzene	16.292	134	782	0.43	ug/L #	73
115) 1,2,4-trimethylbenzene	16.334	105	10003	0.99	ug/L	90
116) sec-butylbenzene	16.507	105	27615	2.20	ug/L	97
121) n-butylbenzene	17.031	92	5220	0.93	ug/L	97
126) naphthalene	18.892	128	6871	0.62	ug/L	98

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

7.1.8

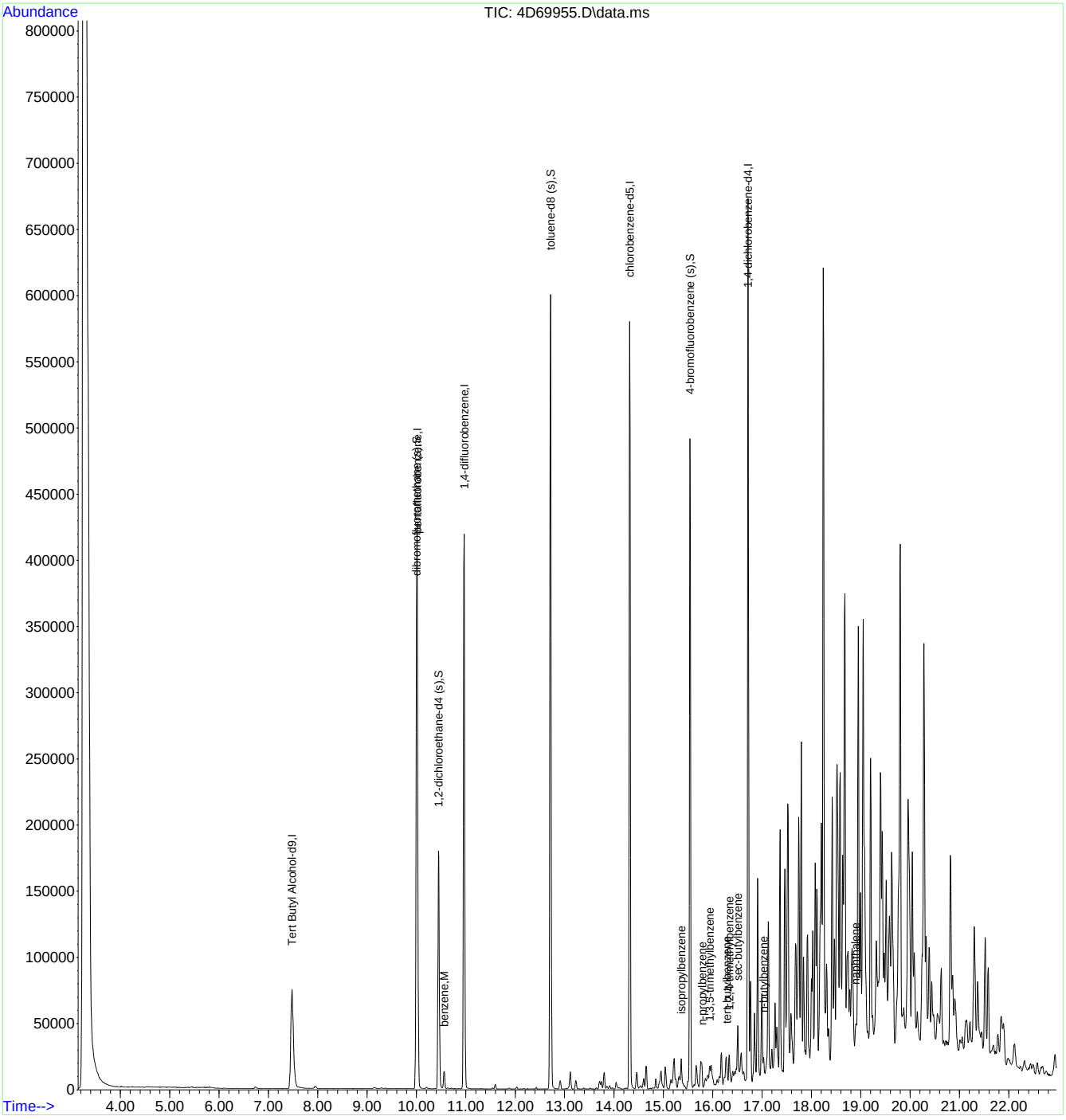
7

SGS ACCUTEST JC23588

Quantitation Report (QT Reviewed)

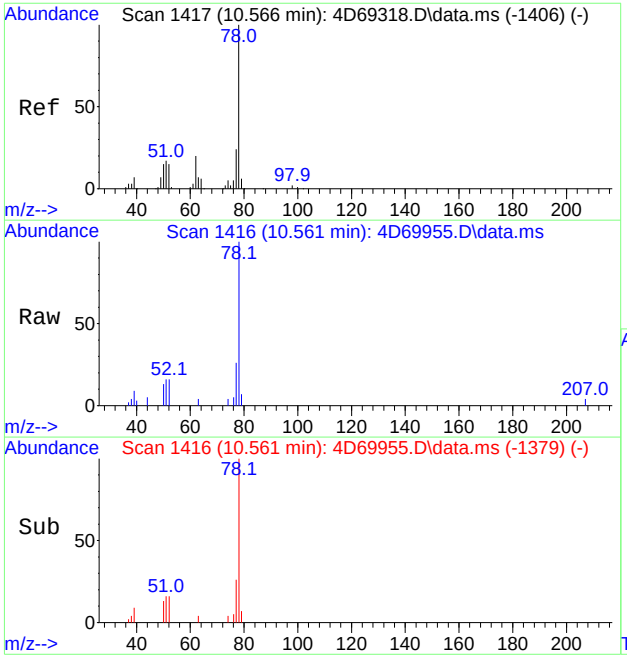
Data Path : C:\msdchem\1\data\4D\V4D3064\
Data File : 4D69955.D
Acq On : 11 Jul 2016 9:05 pm
Operator : XimenaC
Sample : jc23588-8
Misc : MS4402,V4D3064,5,,,,1
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 12 14:55:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4D3034.M
Quant Title : METHOD SW-846 8260C , DB-624 60m x 0.25mm x 1.4 um
QLast Update : Tue Jun 07 11:30:08 2016
Response via : Initial Calibration



M4D3034.M Tue Jul 12 14:59:21 2016

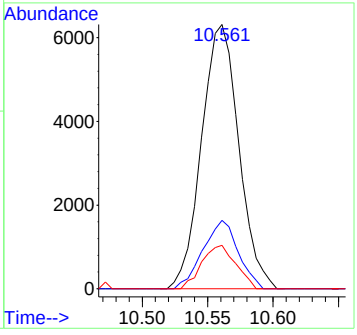
SGS ACCUTEST JC23588

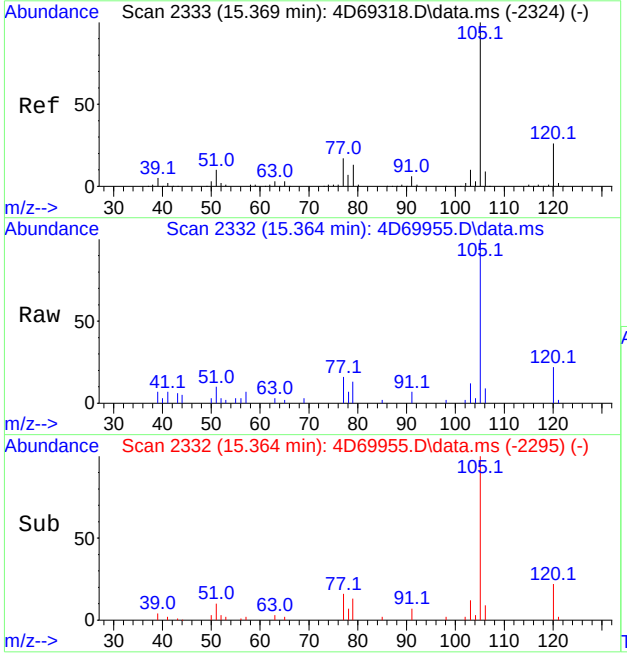


#62
benzene
Concen: 1.24 ug/L
RT: 10.561 min Scan# 1416
Delta R.T. -0.005 min
Lab File: 4D69955.D
Acq: 11 Jul 2016 9:05 pm

Tgt Ion: 78 Resp: 12520

Ion	Ratio	Lower	Upper
78	100		
77	25.8	0.0	53.6
52	16.5	0.0	46.1

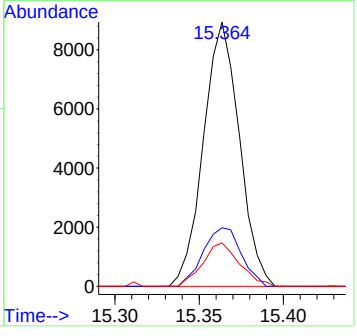


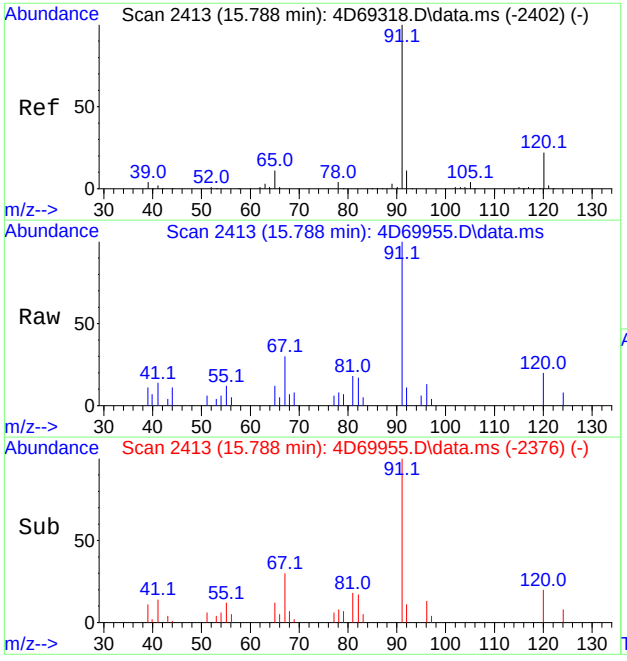


#102
isopropylbenzene
Concen: 1.17 ug/L
RT: 15.364 min Scan# 2332
Delta R.T. -0.005 min
Lab File: 4D69955.D
Acq: 11 Jul 2016 9:05 pm

Tgt Ion:105 Resp: 13315

Ion	Ratio	Lower	Upper
105	100		
120	22.2	0.0	55.3
77	16.4	0.0	46.3

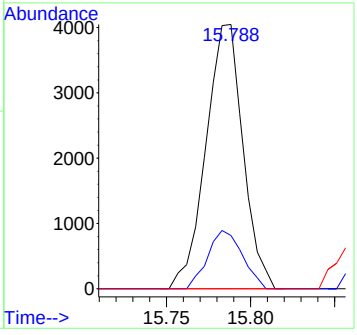


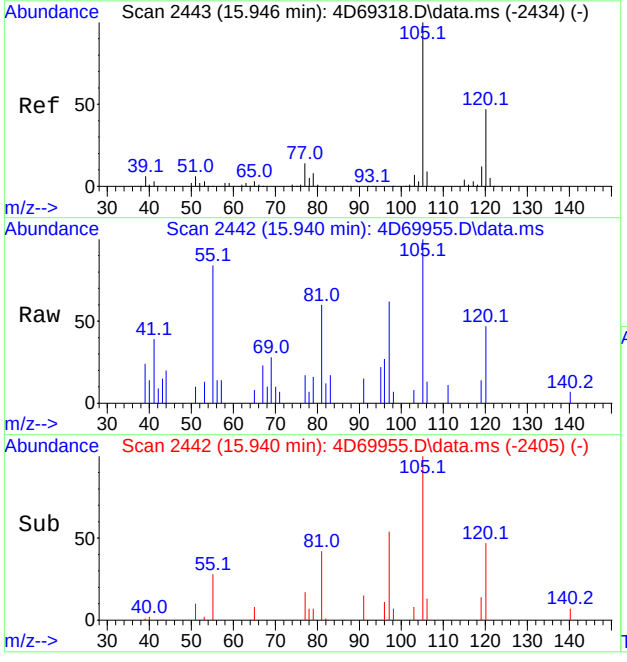


#109
n-propylbenzene
Concen: 0.45 ug/L
RT: 15.788 min Scan# 2413
Delta R.T. -0.005 min
Lab File: 4D69955.D
Acq: 11 Jul 2016 9:05 pm

Tgt Ion: 91 Resp: 6214

Ion	Ratio	Lower	Upper
91	100		
120	20.2	0.0	52.0
105	0.0	0.0	33.6

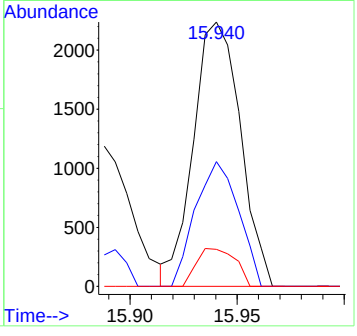


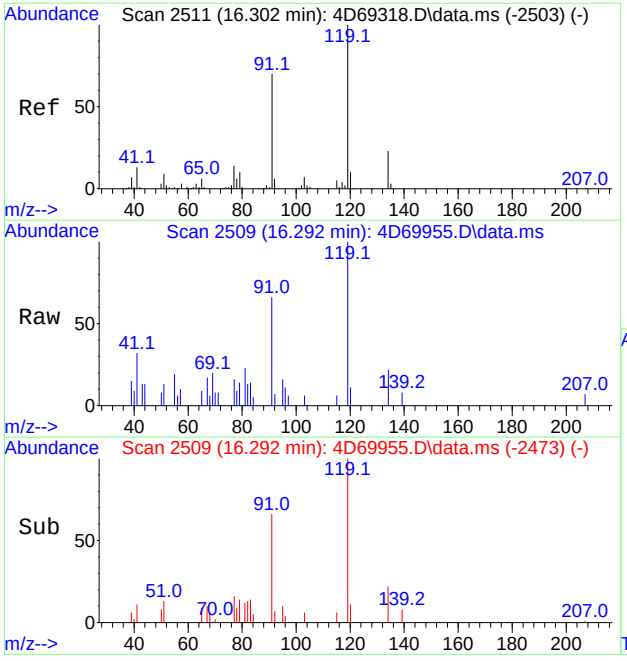


#112
1,3,5-trimethylbenzene
Concen: 0.35 ug/L
RT: 15.940 min Scan# 2442
Delta R.T. -0.005 min
Lab File: 4D69955.D
Acq: 11 Jul 2016 9:05 pm

Tgt Ion:105 Resp: 3423

Ion	Ratio	Lower	Upper
105	100		
120	47.2	18.0	78.0
119	14.0	0.0	42.1

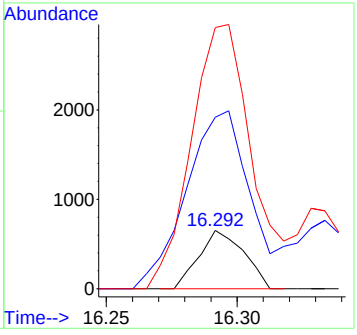


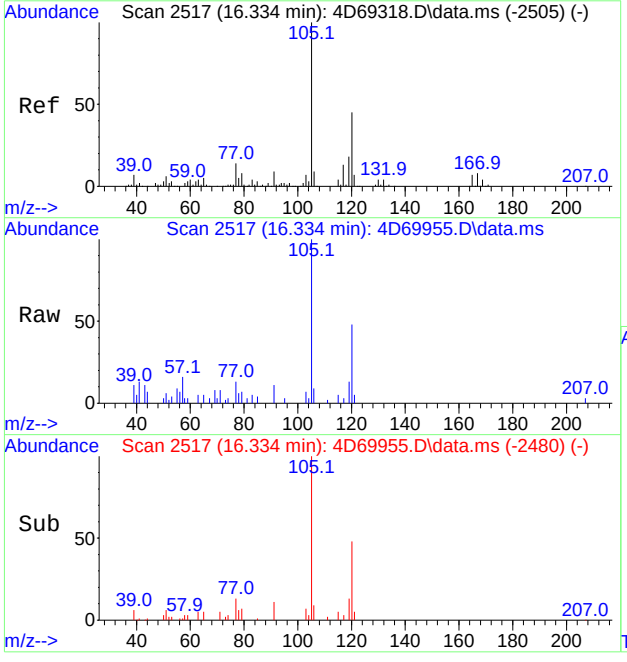


#113
tert-butylbenzene
Concen: 0.43 ug/L
RT: 16.292 min Scan# 2509
Delta R.T. -0.010 min
Lab File: 4D69955.D
Acq: 11 Jul 2016 9:05 pm

Tgt Ion:134 Resp: 782

Ion	Ratio	Lower	Upper
134	100		
91	240.2	288.3	348.3#
119	407.5	426.0	486.0#

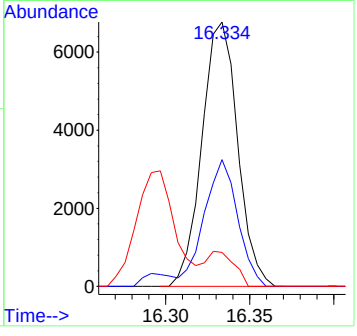


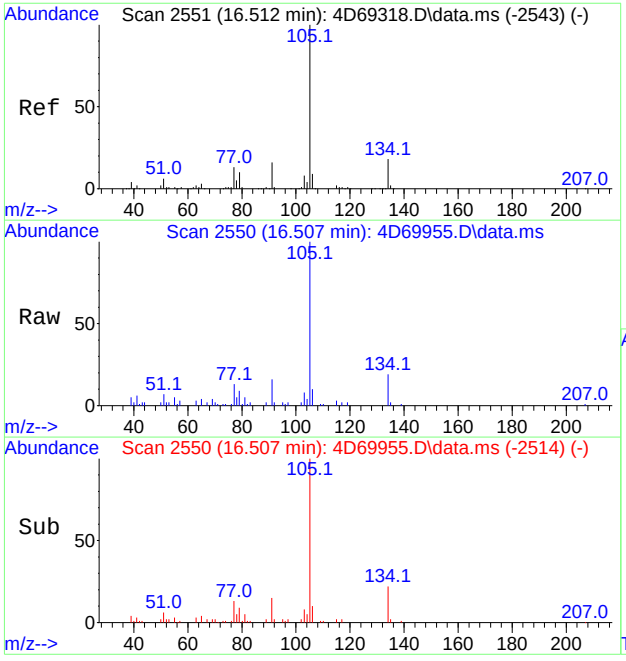


#115
1,2,4-trimethylbenzene
Concen: 0.99 ug/L
RT: 16.334 min Scan# 2517
Delta R.T. -0.005 min
Lab File: 4D69955.D
Acq: 11 Jul 2016 9:05 pm

Tgt Ion:105 Resp: 10003

Ion	Ratio	Lower	Upper
105	100		
120	47.9	14.4	74.4
119	12.9	0.0	51.4

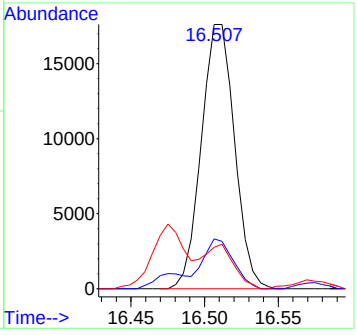


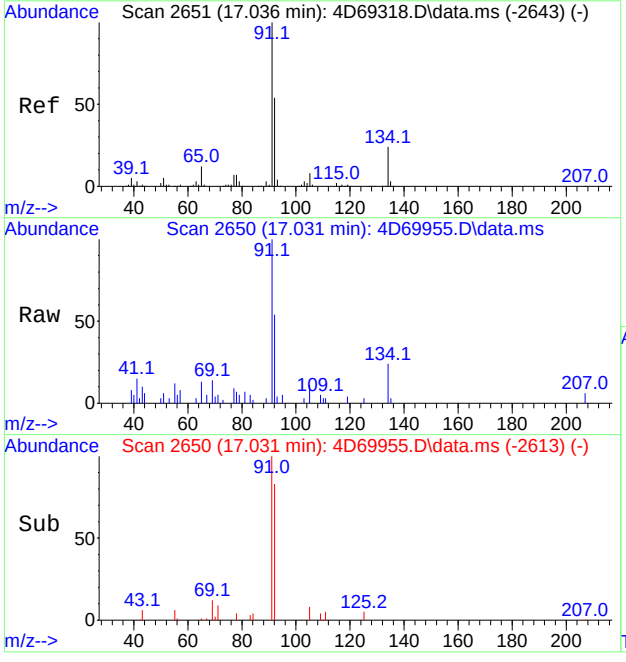


#116
sec-butylbenzene
Concen: 2.20 ug/L
RT: 16.507 min Scan# 2550
Delta R.T. -0.010 min
Lab File: 4D69955.D
Acq: 11 Jul 2016 9:05 pm

Tgt Ion:105 Resp: 27615

Ion	Ratio	Lower	Upper
105	100		
134	18.9	0.0	47.8
91	14.7	0.0	46.1

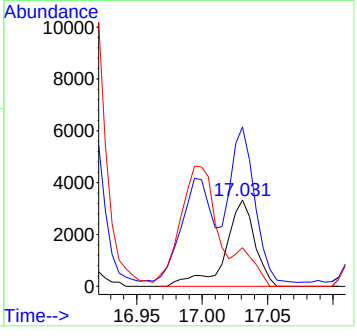


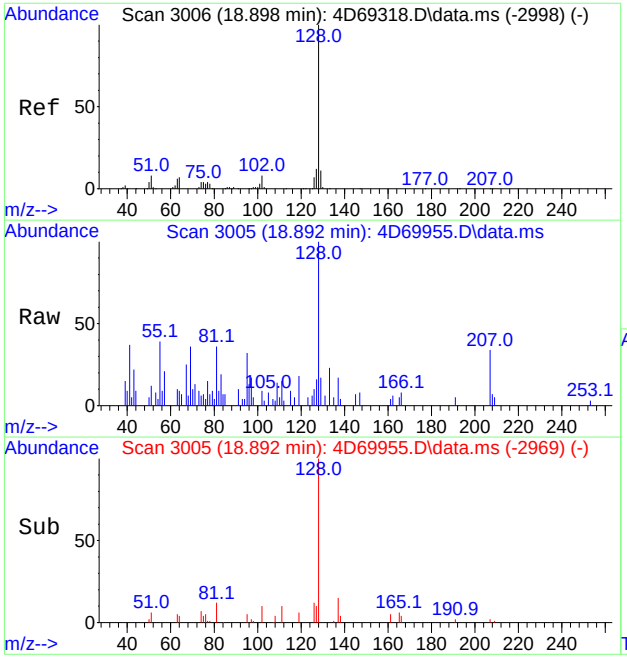


#121
n-butylbenzene
Concen: 0.93 ug/L
RT: 17.031 min Scan# 2650
Delta R.T. -0.005 min
Lab File: 4D69955.D
Acq: 11 Jul 2016 9:05 pm

Tgt Ion: 92 Resp: 5220

Ion	Ratio	Lower	Upper
92	100		
91	178.8	152.4	212.4
134	44.8	12.4	72.4

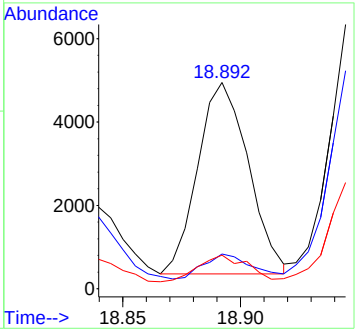




#126
naphthalene
Concen: 0.62 ug/L
RT: 18.892 min Scan# 3005
Delta R.T. -0.011 min
Lab File: 4D69955.D
Acq: 11 Jul 2016 9:05 pm

Tgt Ion:128 Resp: 6871

Ion	Ratio	Lower	Upper
128	100		
129	11.7	0.0	40.8
127	13.8	0.0	42.9



7.1.8

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\4D\V4D3064\
Data File : 4D69956.D
Acq On : 11 Jul 2016 9:34 pm
Operator : XimenaC
Sample : jc23588-9
Misc : MS4402,V4D3064,5,,,,1
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 12 14:58:28 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4D3034.M
Quant Title : METHOD SW-846 8260C , DB-624 60m x 0.25mm x 1.4 um
QLast Update : Tue Jun 07 11:30:08 2016
Response via : Initial Calibration

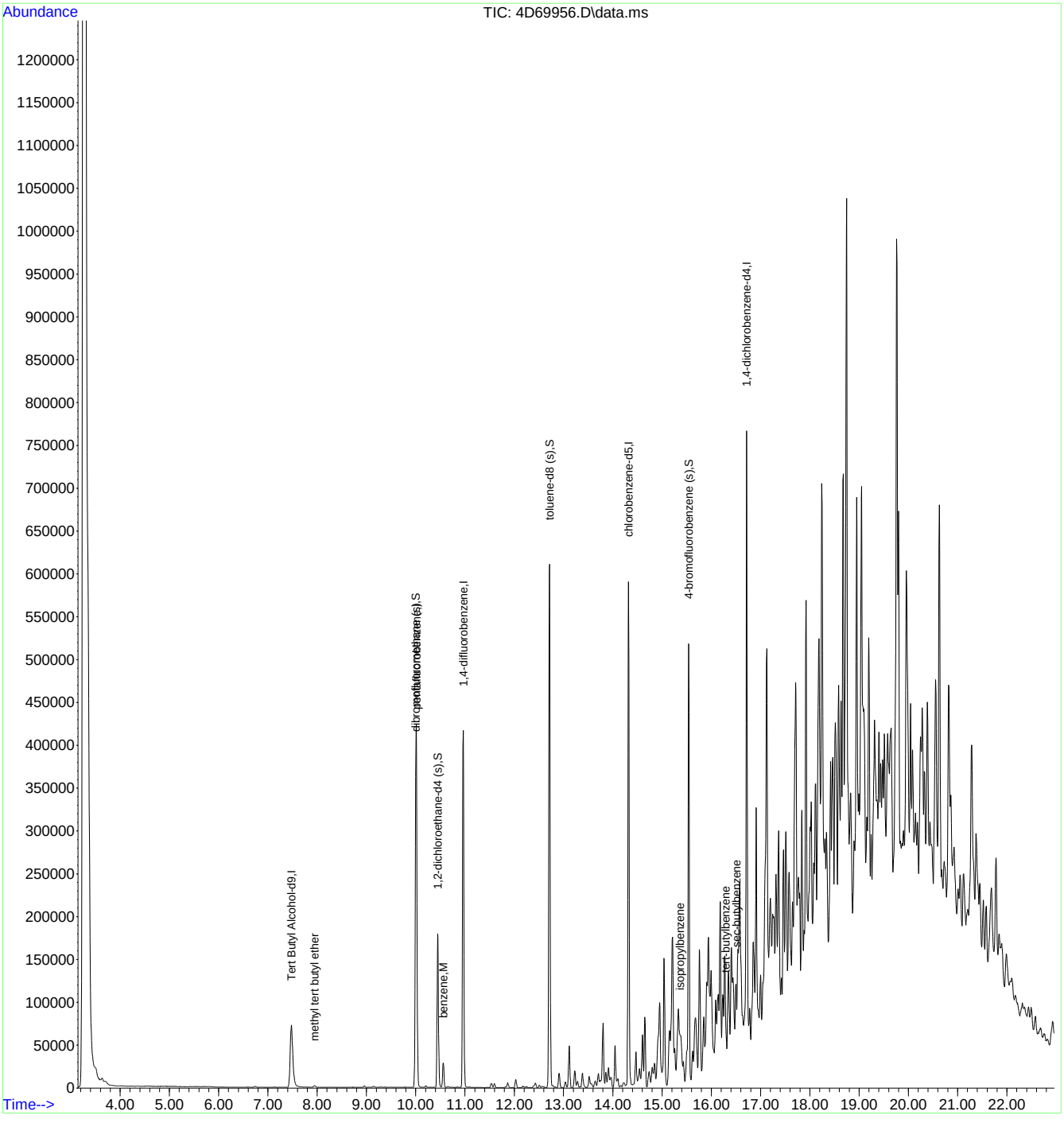
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Tert Butyl Alcohol-d9	7.478	65	164350	500.00 ug/L	-0.02
4) pentafluorobenzene	10.016	168	223353	50.00 ug/L	0.00
54) 1,4-difluorobenzene	10.965	114	343540	50.00 ug/L	-0.01
86) chlorobenzene-d5	14.320	117	315340	50.00 ug/L	0.00
101) 1,4-dichlorobenzene-d4	16.716	152	160909	50.00 ug/L	-0.01
System Monitoring Compounds					
48) dibromofluoromethane (s)	10.000	113	117433	46.95 ug/L	-0.01
Spiked Amount 50.000	Range 76 - 120		Recovery = 93.90%		
49) 1,2-dichloroethane-d4 (s)	10.446	65	127527	45.68 ug/L	-0.01
Spiked Amount 50.000	Range 73 - 122		Recovery = 91.36%		
78) toluene-d8 (s)	12.716	98	407757	51.51 ug/L	0.00
Spiked Amount 50.000	Range 84 - 119		Recovery = 103.02%		
103) 4-bromofluorobenzene (s)	15.542	95	160301	51.16 ug/L	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 102.32%		
Target Compounds					Qvalue
31) methyl tert butyl ether	7.945	73	3230	0.40 ug/L	94
62) benzene	10.561	78	26715	2.62 ug/L	98
102) isopropylbenzene	15.364	105	2179	0.19 ug/L	88
113) tert-butylbenzene	16.292	134	1763	0.96 ug/L #	85
116) sec-butylbenzene	16.507	105	12755	1.01 ug/L	97

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

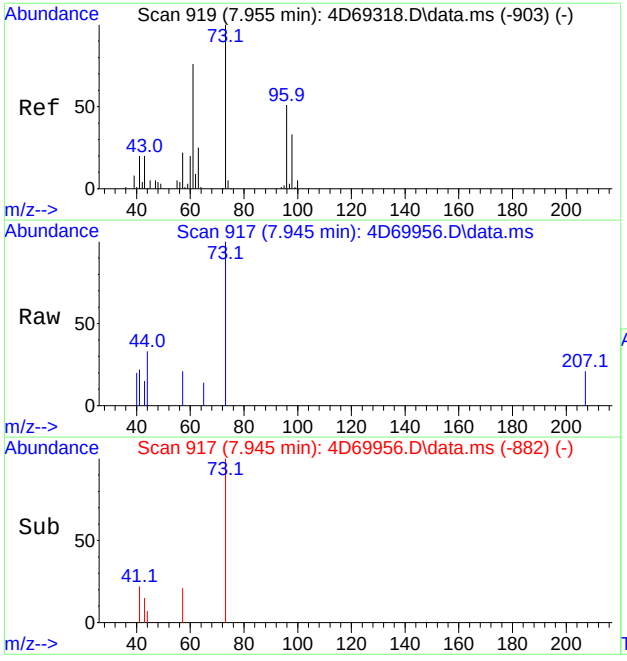
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\4D\V4D3064\
Data File : 4D69956.D
Acq On : 11 Jul 2016 9:34 pm
Operator : XimenaC
Sample : jc23588-9
Misc : MS4402,V4D3064,5,,,,1
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 12 14:58:28 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4D3034.M
Quant Title : METHOD SW-846 8260C , DB-624 60m x 0.25mm x 1.4 um
QLast Update : Tue Jun 07 11:30:08 2016
Response via : Initial Calibration



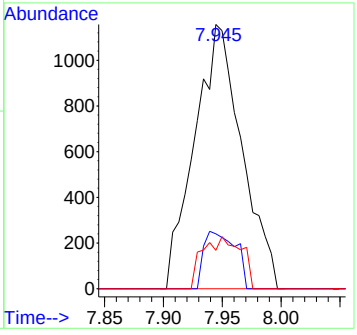
SGS ACCUTEST JC23588

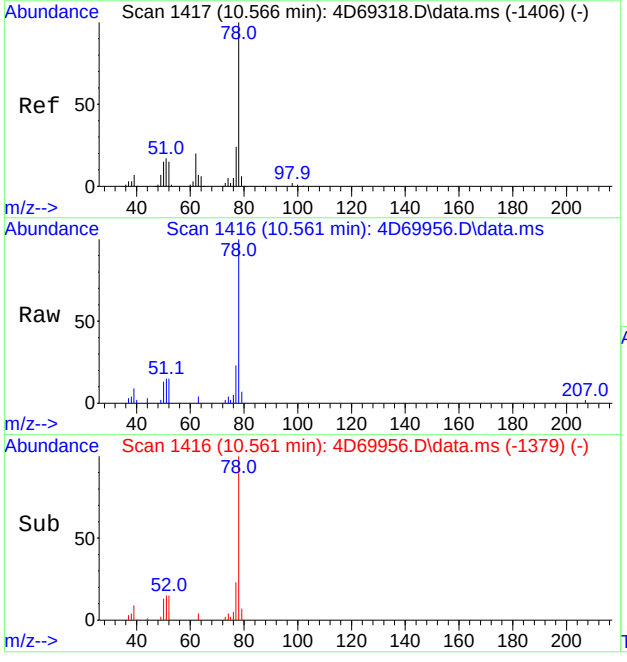


#31
methyl tert butyl ether
Concen: 0.40 ug/L
RT: 7.945 min Scan# 917
Delta R.T. -0.015 min
Lab File: 4D69956.D
Acq: 11 Jul 2016 9:34 pm

Tgt Ion: 73 Resp: 3230

Ion	Ratio	Lower	Upper
73	100		
57	20.7	0.0	51.1
43	14.5	0.0	50.2

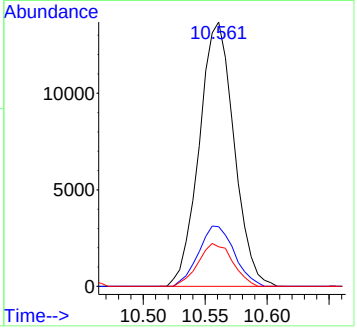




#62
benzene
Concen: 2.62 ug/L
RT: 10.561 min Scan# 1416
Delta R.T. -0.005 min
Lab File: 4D69956.D
Acq: 11 Jul 2016 9:34 pm

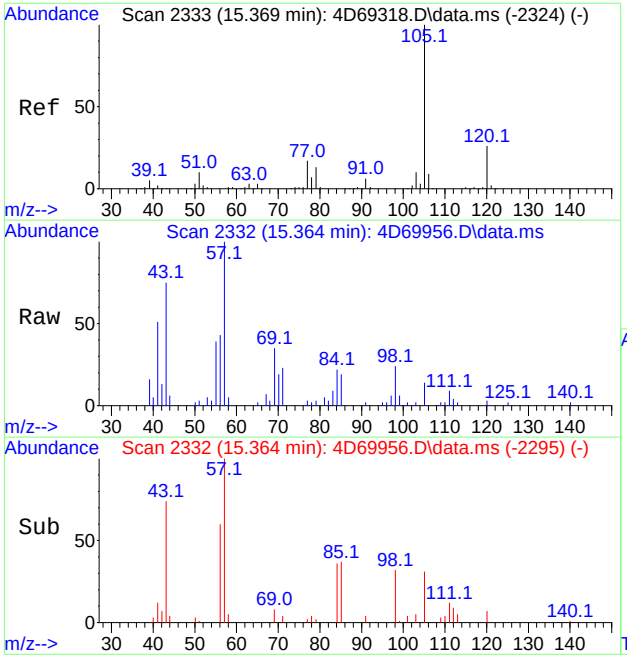
Tgt Ion: 78 Resp: 26715

Ion	Ratio	Lower	Upper
78	100		
77	22.6	0.0	53.6
52	14.9	0.0	46.1



7.1.9

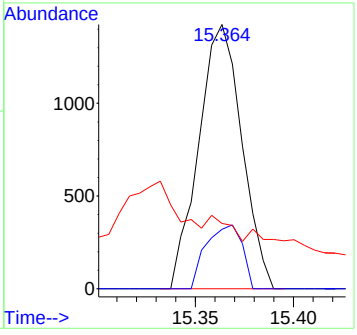
7

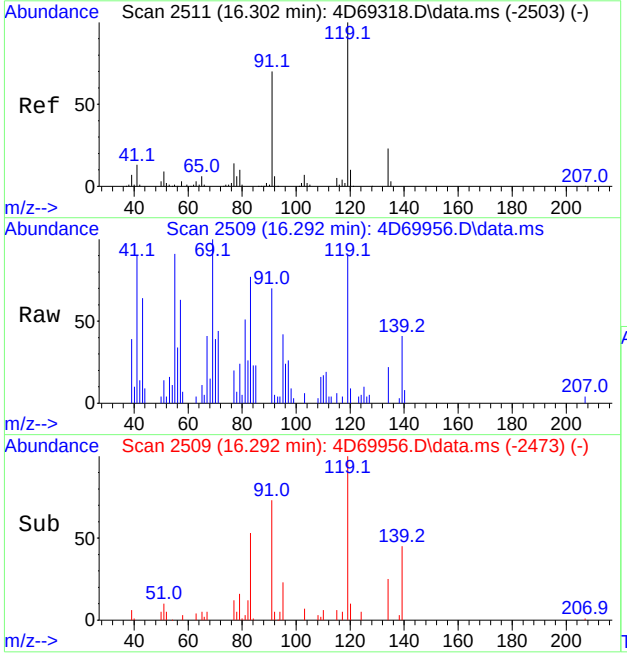


#102
isopropylbenzene
Concen: 0.19 ug/L
RT: 15.364 min Scan# 2332
Delta R.T. -0.005 min
Lab File: 4D69956.D
Acq: 11 Jul 2016 9:34 pm

Tgt Ion:105 Resp: 2179

Ion	Ratio	Lower	Upper
105	100		
120	22.4	0.0	55.3
77	6.5	0.0	46.3

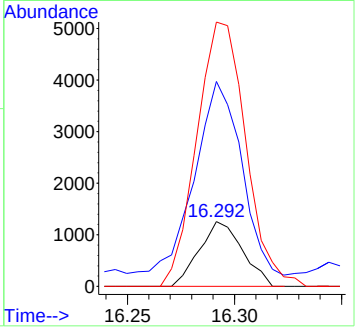




#113
tert-butylbenzene
Concen: 0.96 ug/L
RT: 16.292 min Scan# 2509
Delta R.T. -0.010 min
Lab File: 4D69956.D
Acq: 11 Jul 2016 9:34 pm

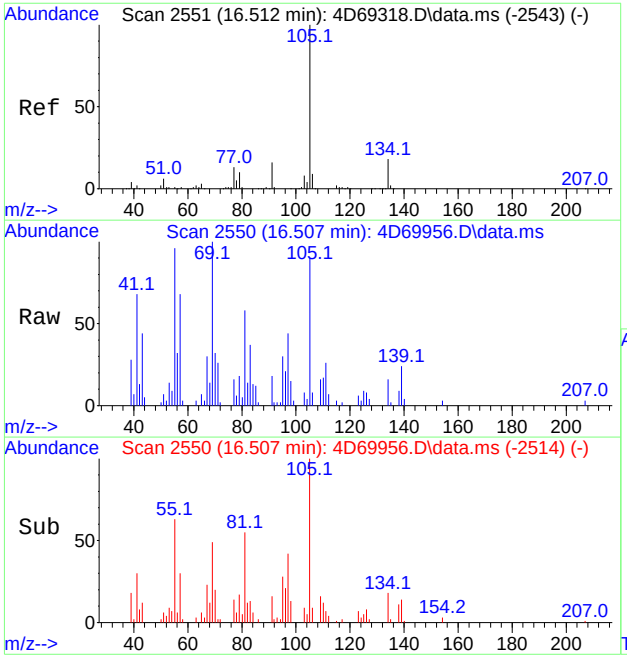
Tgt Ion:134 Resp: 1763

Ion	Ratio	Lower	Upper
134	100		
91	299.0	288.3	348.3
119	408.0	426.0	486.0#



7.1.9

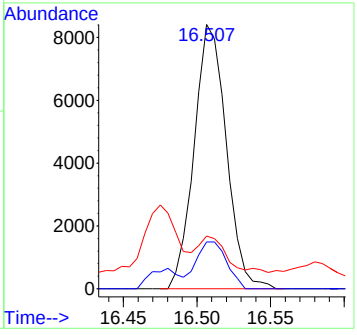
7



#116
sec-butylbenzene
Concen: 1.01 ug/L
RT: 16.507 min Scan# 2550
Delta R.T. -0.010 min
Lab File: 4D69956.D
Acq: 11 Jul 2016 9:34 pm

Tgt Ion:105 Resp: 12755

Ion	Ratio	Lower	Upper
105	100		
134	17.7	0.0	47.8
91	13.4	0.0	46.1



7.1.9

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\4D\V4D3063\
Data File : 4D69912.D
Acq On : 9 Jul 2016 11:52 am
Operator : XimenaC
Sample : mb
Misc : MS4090,V4D3063,5,,,,1
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jul 12 09:05:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4D3034.M
Quant Title : METHOD SW-846 8260C , DB-624 60m x 0.25mm x 1.4 um
QLast Update : Tue Jul 12 08:25:41 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.473	65	273973	500.00	ug/L	-0.02
4) pentafluorobenzene	10.016	168	341011	50.00	ug/L	0.00
54) 1,4-difluorobenzene	10.965	114	549605	50.00	ug/L	-0.01
86) chlorobenzene-d5	14.320	117	505723	50.00	ug/L	0.00
101) 1,4-dichlorobenzene-d4	16.716	152	249177	50.00	ug/L	-0.01
System Monitoring Compounds						
48) dibromofluoromethane (s)	10.000	113	188148	49.27	ug/L	0.00
Spiked Amount 50.000	Range 76 - 120		Recovery = 98.54%			
49) 1,2-dichloroethane-d4 (s)	10.446	65	206927	48.54	ug/L	-0.01
Spiked Amount 50.000	Range 73 - 122		Recovery = 97.08%			
78) toluene-d8 (s)	12.716	98	650887	51.40	ug/L	0.00
Spiked Amount 50.000	Range 84 - 119		Recovery = 102.80%			
103) 4-bromofluorobenzene (s)	15.542	95	258418	53.26	ug/L	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 106.52%			
Target Compounds						Qvalue

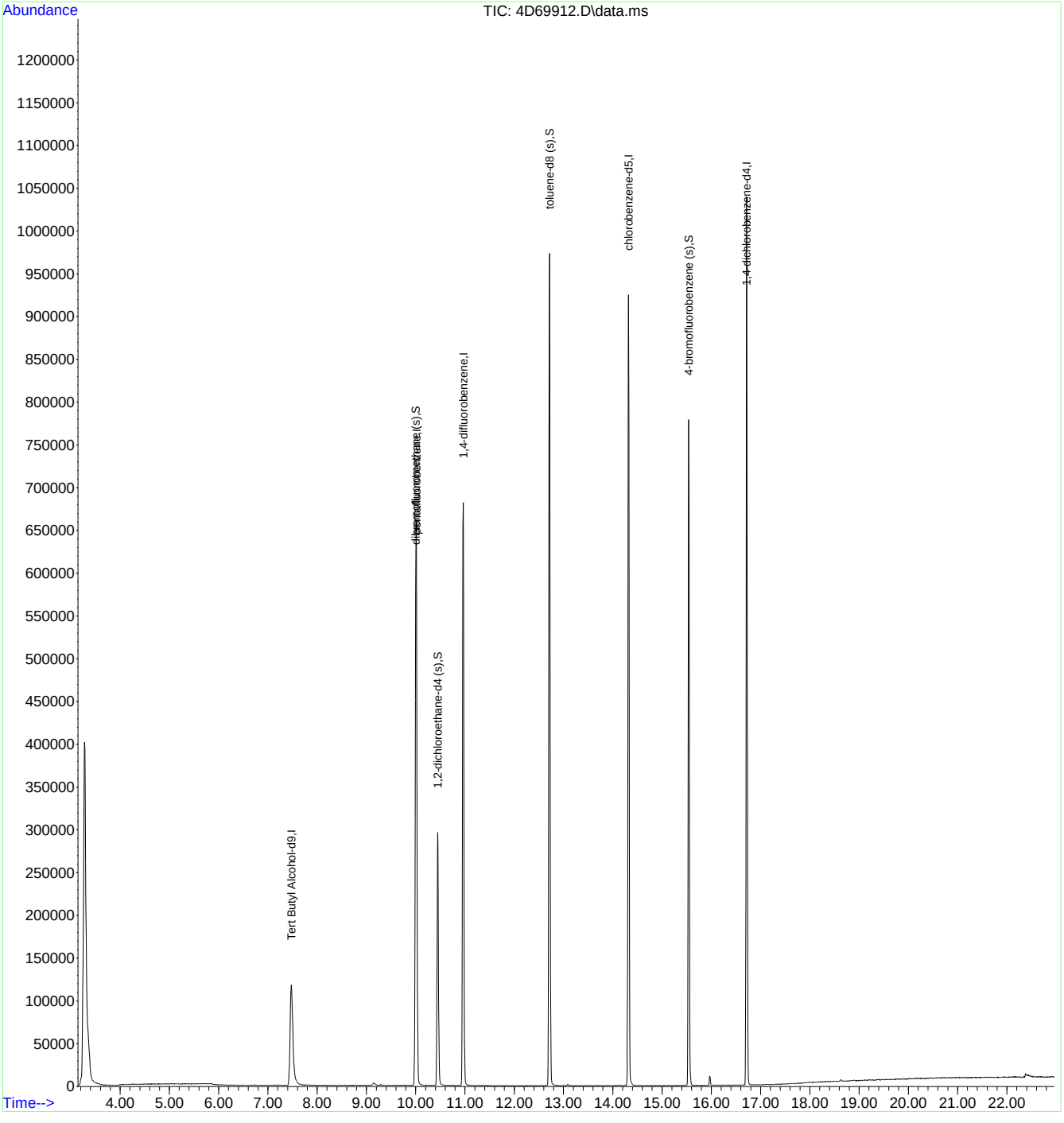
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC23588

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\4D\V4D3063\
Data File : 4D69912.D
Acq On : 9 Jul 2016 11:52 am
Operator : XimenaC
Sample : mb
Misc : MS4090,V4D3063,5,,,,1
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jul 12 09:05:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4D3034.M
Quant Title : METHOD SW-846 8260C , DB-624 60m x 0.25mm x 1.4 um
QLast Update : Tue Jul 12 08:25:41 2016
Response via : Initial Calibration



M4D3034.M Tue Jul 12 09:33:14 2016 Page: 2

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\data\4D\V4D3064\
Data File : 4D69938.D
Acq On : 11 Jul 2016 12:15 pm
Operator : XimenaC
Sample : mb
Misc : MS4275,V4D3064,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 12 14:18:23 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4D3034.M
Quant Title : METHOD SW-846 8260C , DB-624 60m x 0.25mm x 1.4 um
QLast Update : Tue Jul 12 13:41:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Tert Butyl Alcohol-d9	7.478	65	163873	500.00 ug/L	-0.02
4) pentafluorobenzene	10.016	168	224248	50.00 ug/L	0.00
54) 1,4-difluorobenzene	10.965	114	342502	50.00 ug/L	-0.01
86) chlorobenzene-d5	14.320	117	311008	50.00 ug/L	0.00
101) 1,4-dichlorobenzene-d4	16.716	152	157300	50.00 ug/L	-0.01
System Monitoring Compounds					
48) dibromofluoromethane (s)	10.000	113	117018	46.60 ug/L	-0.01
Spiked Amount 50.000	Range 76 - 120		Recovery = 93.20%		
49) 1,2-dichloroethane-d4 (s)	10.446	65	126394	45.09 ug/L	-0.01
Spiked Amount 50.000	Range 73 - 122		Recovery = 90.18%		
78) toluene-d8 (s)	12.716	98	399512	50.63 ug/L	0.00
Spiked Amount 50.000	Range 84 - 119		Recovery = 101.26%		
103) 4-bromofluorobenzene (s)	15.542	95	156656	51.14 ug/L	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 102.28%		

Target Compounds Qvalue

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

7.2.2

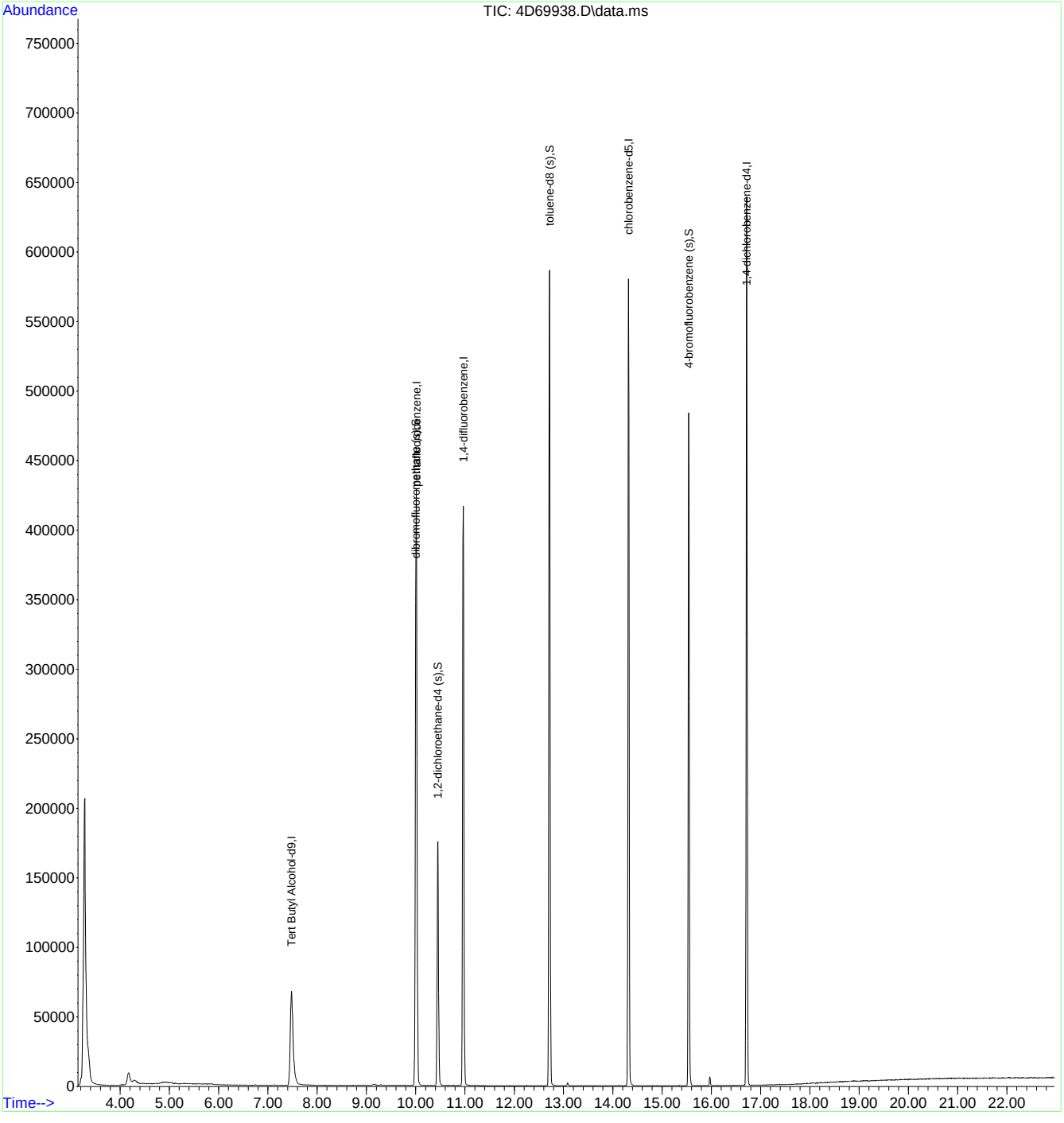
7

SGS ACCUTEST JC23588

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\data\4D\V4D3064\
Data File : 4D69938.D
Acq On : 11 Jul 2016 12:15 pm
Operator : XimenaC
Sample : mb
Misc : MS4275,V4D3064,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 12 14:18:23 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4D3034.M
Quant Title : METHOD SW-846 8260C , DB-624 60m x 0.25mm x 1.4 um
QLast Update : Tue Jul 12 13:41:48 2016
Response via : Initial Calibration



M4D3034.M Tue Jul 12 14:32:08 2016 Page: 2

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
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GUV5315-MB1	UV132209.D	1	07/08/16	NA	n/a	n/a	GUV5315

The QC reported here applies to the following samples: **Method:** SW846 8015C

JC23588-1, JC23588-2

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.20	0.10	mg/l	

CAS No.	Surrogate Recoveries		Limits
98-08-8	aaa-Trifluorotoluene	89%	55-130%

Method Blank Summary

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GUV5315-MB3	UV132224.D	1	07/08/16	NA	n/a	n/a	GUV5315

The QC reported here applies to the following samples: **Method:** SW846 8015C

JC23588-3, JC23588-4, JC23588-5, JC23588-6, JC23588-7, JC23588-8, JC23588-9

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.20	0.10	mg/l	

CAS No.	Surrogate Recoveries		Limits
98-08-8	aaa-Trifluorotoluene	89%	55-130%

Blank Spike Summary

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GUV5315-BS	UV132210.D	1	07/08/16	NA	n/a	n/a	GUV5315

The QC reported here applies to the following samples: **Method:** SW846 8015C

JC23588-1, JC23588-2, JC23588-3, JC23588-4, JC23588-5, JC23588-6, JC23588-7, JC23588-8, JC23588-9

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH-GRO (C6-C10)	8	7.48	94	71-132

CAS No.	Surrogate Recoveries	BSP	Limits
98-08-8	aaa-Trifluorotoluene	98%	55-130%

8.2.1

8

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC23588-1MS	UV132216.D	1	07/08/16	NA	n/a	n/a	GUV5315
JC23588-1	UV132211.D	1	07/08/16	NA	n/a	n/a	GUV5315

The QC reported here applies to the following samples: **Method:** SW846 8015C

JC23588-1, JC23588-2, JC23588-3, JC23588-4, JC23588-5, JC23588-6, JC23588-7, JC23588-8, JC23588-9

CAS No.	Compound	JC23588-1 mg/l	Q	Spike mg/l	MS mg/l	MS %	Limits
	TPH-GRO (C6-C10)	ND		8	8.25	103	49-131

CAS No.	Surrogate Recoveries	MS	JC23588-1	Limits
98-08-8	aaa-Trifluorotoluene	98%	85%	55-130%

8.3.1

8

* = Outside of Control Limits.

Duplicate Summary

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC23588-2DUP	UV132213.D	1	07/08/16	NA	n/a	n/a	GUV5315
JC23588-2	UV132212.D	1	07/08/16	NA	n/a	n/a	GUV5315

The QC reported here applies to the following samples: **Method:** SW846 8015C

JC23588-1, JC23588-2, JC23588-3, JC23588-4, JC23588-5, JC23588-6, JC23588-7, JC23588-8, JC23588-9

CAS No.	Compound	JC23588-2 mg/l	Q	DUP mg/l	Q	RPD	Limits
	TPH-GRO (C6-C10)	ND		ND		nc	8

CAS No.	Surrogate Recoveries	DUP	JC23588-2	Limits
98-08-8	aaa-Trifluorotoluene	89%	89%	55-130%

8.4.1

8

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Method: SW846 8015C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]
JC23588-1	UV132211.D	85
JC23588-2	UV132212.D	89
JC23588-3	UV132225.D	88
JC23588-4	UV132226.D	87
JC23588-5	UV132227.D	88
JC23588-6	UV132231.D	89
JC23588-7	UV132228.D	89
JC23588-8	UV132229.D	90
JC23588-9	UV132230.D	90
GUV5315-BS	UV132210.D	98
GUV5315-MB1	UV132209.D	89
GUV5315-MB3	UV132224.D	89
JC23588-1MS	UV132216.D	98
JC23588-2DUP	UV132213.D	89

Surrogate Compounds	Recovery Limits
S1 = aaa-Trifluorotoluene	55-130%

(a) Recovery from GC signal #1

GC Surrogate Retention Time Summary

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Check Std:	GUV5314-CC5078	**Injection Date:**	07/07/16
Lab File ID:	UV132204.D	**Injection Time:**	15:41
Instrument ID:	GCUV	**Method:**	SW846 8015C

	S1 [a] **RT**
Check Std	11.06

Lab Sample ID	**Lab File ID**	**Date Analyzed**	**Time Analyzed**	**S1** [a] **RT**
GUV5315-RT	UV132207.D	07/08/16	07:58	11.06

Surrogate Compounds

S1 = aaa-Trifluorotoluene

(a) Retention time from GC signal #1

8.6.1

8

GC Surrogate Retention Time Summary

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Check Std:	GUV5315-CC5078	**Injection Date:**	07/08/16
Lab File ID:	UV132208.D	**Injection Time:**	08:50
Instrument ID:	GCUV	**Method:**	SW846 8015C

	S1 [a] **RT**
Check Std	11.06

Lab Sample ID	**Lab File ID**	**Date Analyzed**	**Time Analyzed**	**S1** [a] **RT**
GUV5315-MB1	UV132209.D	07/08/16	09:22	11.06
GUV5315-BS	UV132210.D	07/08/16	09:53	11.06
JC23588-1	UV132211.D	07/08/16	10:29	11.06
JC23588-2	UV132212.D	07/08/16	11:05	11.06
JC23588-2DUP	UV132213.D	07/08/16	11:34	11.06
ZZZZZZ	UV132214.D	07/08/16	12:03	11.06
JC23588-1MS	UV132216.D	07/08/16	13:16	11.06

Surrogate Compounds

S1 = aaa-Trifluorotoluene

(a) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Check Std:	GUV5315-CC5078	**Injection Date:**	07/08/16
Lab File ID:	UV132223.D	**Injection Time:**	17:07
Instrument ID:	GCUV	**Method:**	SW846 8015C

	S1 [a] **RT**
Check Std	11.06

Lab Sample ID	**Lab File ID**	**Date Analyzed**	**Time Analyzed**	**S1** [a] **RT**
GUV5315-MB3	UV132224.D	07/08/16	17:43	11.06
JC23588-3	UV132225.D	07/08/16	18:12	11.06
JC23588-4	UV132226.D	07/08/16	18:41	11.06
JC23588-5	UV132227.D	07/08/16	19:17	11.06
JC23588-7	UV132228.D	07/08/16	19:46	11.06
JC23588-8	UV132229.D	07/08/16	20:15	11.06
JC23588-9	UV132230.D	07/08/16	20:51	11.06
JC23588-6	UV132231.D	07/08/16	21:20	11.06

Surrogate Compounds

S1 = aaa-Trifluorotoluene

(a) Retention time from GC signal #1

Initial Calibration Summary

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample: GUV5078-ICC5078
Lab FileID: UV127091.D

```
                         Response Factor Report  GCUV

 Method       : C:\HPCHEM\1\METHODS\MUV5078.M (Chemstation Integrator)
 Title        : Method SW846 8015B (GRO)
 Last Update  : Wed Nov 18 08:28:12 2015
 Response via : Initial Calibration

 Calibration Files
 0.2    =UV127088.D   0.8    =UV127089.D   4      =UV127090.D
 8    =UV127091.D  20   =UV127092.D  40   =UV127094.D  30   =UV127093.D

     Compound           0.2   0.8   4     8     20    40    30     Avg   %RSD
 ---------------------------------------------------------------------------
 1)H TPH-GRO (C6-C10)  1.757 1.745 1.589 1.557 1.573 1.608 1.537 1.624 E4   5.52
 2)H TPH-GRO (C6-C12)  1.676 1.439 1.349 1.364 1.415 1.449 1.396 1.441 E4   7.61
 3)S a,a,a-Trifluoroto 1.719 1.795 1.844 1.910 2.037 2.119 2.128 1.936 E4   8.35
---------------------------------------------------------------------------

                                                   Average  % RSD =   7.2

 ( 100.0 %)  3 of   3 compounds'% RSD >  0
---------------------------------------------------------------------------
(#) = Out of Range

          MUV5078.M         Wed Nov 18 08:29:45 2015   GCSY
```

8.7.1

8

Initial Calibration Verification

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample: GUV5078-ICV5078
Lab FileID: UV127097.D

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\1\DATA\UV127097.D                    Vial: 13
Acq On    : 17 Nov 2015   7:01 pm                     Operator: JAYC
Sample    : ICV5078-8000                              Inst    : GCUV
Misc      : GC47028,GUV5078,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint1.e

Method       : C:\HPCHEM\1\METHODS\MUV5078.M (Chemstation Integrator)
Title        : Method SW846 8015B (GRO)
Last Update  : Wed Nov 18 08:28:12 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 : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1 H	TPH-GRO (C6-C10)	16.236	14.975 E3	7.8	96	0.00
2 H	TPH-GRO (C6-C12)	14.411	14.907 E3	-3.4	109	0.00
3 S	a,a,a-Trifluorotoluene	19.360	18.599 E3	3.9	97	0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0
UV127091.D MUV5078.M Wed Nov 18 08:33:06 2015 GCSY

8.7.2

8

Continuing Calibration Summary

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample: GUV5314-CC5078
Lab FileID: UV132204.D

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\1\DATA\UV132204.D                    Vial: 14
Acq On    :  7 Jul 2016   3:41 pm                     Operator: NATHALIA
Sample    : CC5078-8000                               Inst    : GCUV
Misc      : GC48761,GUV5314,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint1.e

Method       : C:\HPCHEM\1\METHODS\MUV5078.M (Chemstation Integrator)
Title        : Method SW846 8015C (GRO)
Last Update  : Wed Dec 02 08:25:21 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 : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1 H	TPH-GRO (C6-C10)	16.236	15.579 E3	4.0	100	0.00
2 H	TPH-GRO (C6-C12)	14.411	13.735 E3	4.7	101	0.00
3 S	a,a,a-Trifluorotoluene	19.360	20.143 E3	-4.0	105	0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0
UV127091.D MUV5078.M Fri Jul 08 08:35:53 2016 GCSY

8.7.3

8

Continuing Calibration Summary

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample: GUV5315-CC5078
Lab FileID: UV132208.D

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\1\DATA\UV132208.D                    Vial: 4
Acq On    :  8 Jul 2016   8:50 am                     Operator: NATHALIA
Sample    : CC5078-4000                               Inst    : GCUV
Misc      : GC48761,GUV5315,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint1.e

Method       : C:\HPCHEM\1\METHODS\MUV5078.M (Chemstation Integrator)
Title        : Method SW846 8015C (GRO)
Last Update  : Wed Dec 02 08:25:21 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 : 150%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	H	TPH-GRO (C6-C10)	16.236	14.844 E3	8.6	93	0.00
2	H	TPH-GRO (C6-C12)	14.411	12.951 E3	10.1	96	0.00
3	S	a,a,a-Trifluorotoluene	19.360	18.388 E3	5.0	100	0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0
UV127090.D MUV5078.M Tue Jul 12 08:48:54 2016 GCSY

8.7.4

8

Continuing Calibration Summary

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD
Sample: GUV5315-CC5078
Lab FileID: UV132217.D

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\1\DATA\UV132217.D                    Vial: 13
Acq On    :  8 Jul 2016   1:45 pm                     Operator: NATHALIA
Sample    : CC5078-8000                               Inst    : GCUV
Misc      : GC48767,GUV5315,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint1.e

Method       : C:\HPCHEM\1\METHODS\MUV5078.M (Chemstation Integrator)
Title        : Method SW846 8015C (GRO)
Last Update  : Wed Dec 02 08:25:21 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 : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1 H	TPH-GRO (C6-C10)	16.236	14.878 E3	8.4	96	0.00
2 H	TPH-GRO (C6-C12)	14.411	13.142 E3	8.8	96	0.00
3 S	a,a,a-Trifluorotoluene	19.360	20.258 E3	-4.6	106	0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0
UV127091.D MUV5078.M Tue Jul 12 08:49:40 2016 GCSY

8.7.5

8

Continuing Calibration Summary

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample: GUV5315-CC5078
Lab FileID: UV132223.D

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\1\DATA\UV132223.D                    Vial: 19
Acq On    :  8 Jul 2016   5:07 pm                     Operator: NATHALIA
Sample    : CC5078-4000                               Inst    : GCUV
Misc      : GC48767,GUV5315,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint1.e

Method       : C:\HPCHEM\1\METHODS\MUV5078.M (Chemstation Integrator)
Title        : Method SW846 8015C (GRO)
Last Update  : Wed Dec 02 08:25:21 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 : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1 H	TPH-GRO (C6-C10)	16.236	14.786 E3	8.9	93	0.00
2 H	TPH-GRO (C6-C12)	14.411	12.847 E3	10.9	95	0.00
3 S	a,a,a-Trifluorotoluene	19.360	19.026 E3	1.7	103	0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0
UV127090.D MUV5078.M Tue Jul 12 08:48:55 2016 GCSY

8.7.6

8

Continuing Calibration Summary

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample: GUV5315-CC5078
Lab FileID: UV132232.D

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\1\DATA\UV132232.D                    Vial: 28
Acq On    :  8 Jul 2016   9:56 pm                     Operator: NATHALIA
Sample    : CC5078-8000                               Inst    : GCUV
Misc      : GC48780,GUV5315,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint1.e

Method       : C:\HPCHEM\1\METHODS\MUV5078.M (Chemstation Integrator)
Title        : Method SW846 8015C (GRO)
Last Update  : Wed Dec 02 08:25:21 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 : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1 H	TPH-GRO (C6-C10)	16.236	14.416 E3	11.2	93	0.00
2 H	TPH-GRO (C6-C12)	14.411	12.733 E3	11.6	93	0.00
3 S	a,a,a-Trifluorotoluene	19.360	19.930 E3	-2.9	104	0.03

Evaluate Continuing Calibration Report - Not Founds

```
Data File : C:\HPCHEM\1\DATA\UV132232.D                    Vial: 28
Acq On    :  8 Jul 2016   9:56 pm                     Operator: NATHALIA
Sample    : CC5078-8000                               Inst    : GCUV
Misc      : GC48780,GUV5315,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint1.e

Method       : C:\HPCHEM\1\METHODS\MUV5078.M (Chemstation Integrator)
Title        : Method SW846 8015C (GRO)
Last Update  : Wed Dec 02 08:25:21 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 : 150%
```

Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0
UV127091.D MUV5078.M Tue Jul 12 09:07:22 2016 GCSY

8.7.7

8

GC Volatiles

Raw Data

Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\UV132211.D                    Vial: 7
Acq On    :  8 Jul 2016  10:29 am                     Operator: NATHALIA
Sample    : JC23588-1                                 Inst    : GCUV
Misc      : GC48767,GUV5315,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint1.e
Quant Time: Jul 12  8:39 2016  Quant Results File: MUV5078.RES

Quant Method : C:\HPCHEM\1\METHODS\MUV5078.M (Chemstation Integrator)
Title        : Method SW846 8015C (GRO)
Last Update  : Wed Dec 02 08:25:21 2015
Response via : Initial Calibration
DataAcq Meth : MUV5078.M

Volume Inj.  :
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info  : HP-VOC 105m x 0.53mm x 3.0um

     Compound                    R.T.       Response    Conc Units
---------------------------------------------------------------------------

System Monitoring Compounds
 3) S   a,a,a-Trifluorotoluene      11.06        4953263  255.855 ug/l
Spiked Amount   300.000                   Recovery      =   85.28%

Target Compounds
```

9.1.1

9

```
---------------------------------------------------------------------------
(f)=RT Delta > 1/2 Window                                (m)=manual int.
UV132211.D  MUV5078.M      Tue Jul 12 08:40:04 2016      GCSY
```

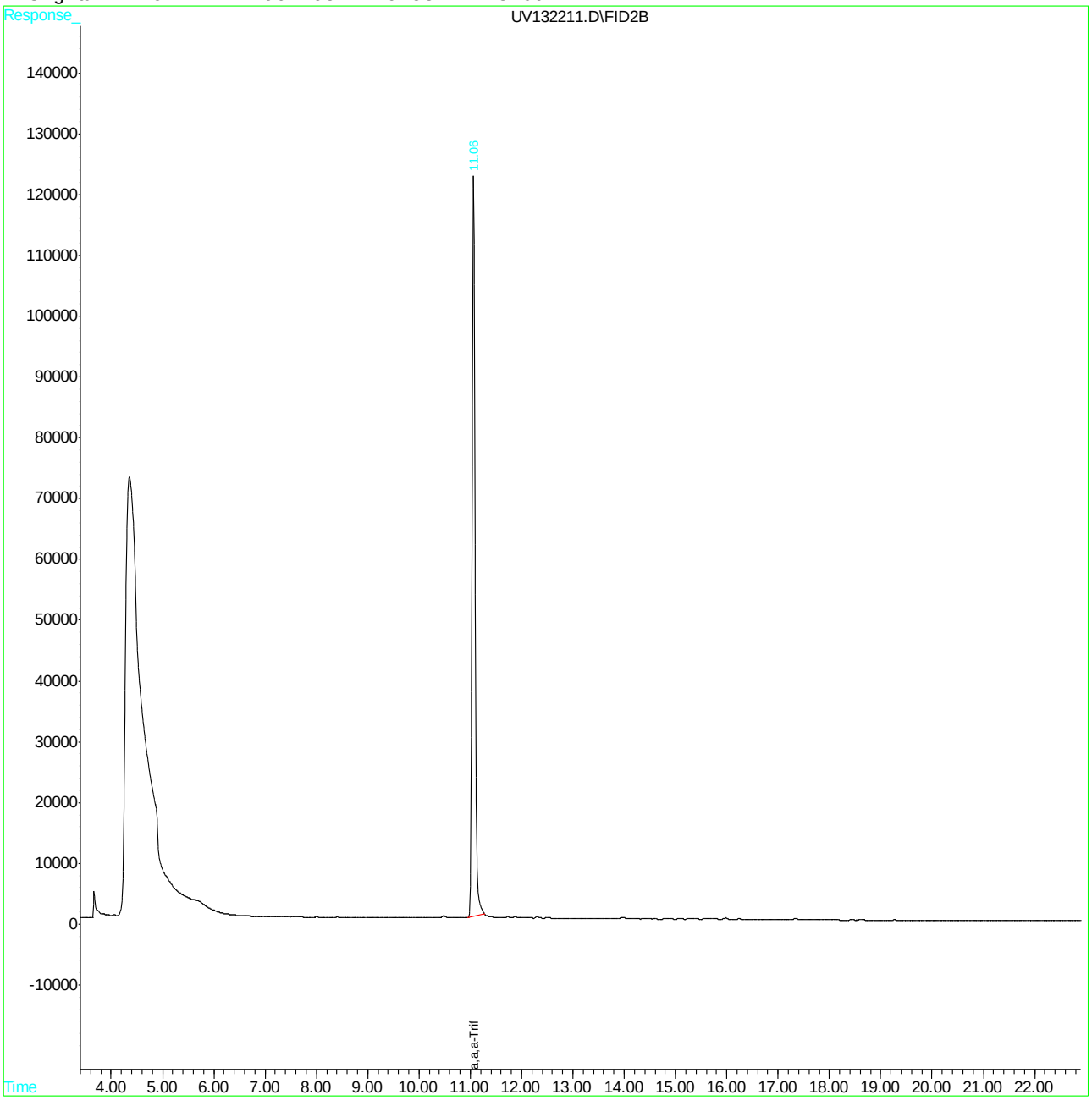

SGS ACCUTEST JC23588

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\UV132211.D Vial: 7
Acq On : 8 Jul 2016 10:29 am Operator: NATHALIA
Sample : JC23588-1 Inst : GCUV
Misc : GC48767,GUV5315,5.0,,,,1 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Jul 12 8:39 2016 Quant Results File: MUV5078.RES

Quant Method : C:\HPCHEM\1\METHODS\MUV5078.M (Chemstation Integrator)
Title : Method SW846 8015C (GRO)
Last Update : Wed Dec 02 08:25:21 2015
Response via : Multiple Level Calibration
DataAcq Meth : MUV5078.M

Volume Inj. :
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : HP-VOC 105m x 0.53mm x 3.0um



Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\UV132212.D                    Vial: 8
Acq On    :  8 Jul 2016  11:05 am                     Operator: NATHALIA
Sample    : JC23588-2                                 Inst    : GCUV
Misc      : GC48767,GUV5315,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint1.e
Quant Time: Jul 12  8:40 2016  Quant Results File: MUV5078.RES

Quant Method : C:\HPCHEM\1\METHODS\MUV5078.M (Chemstation Integrator)
Title        : Method SW846 8015C (GRO)
Last Update  : Wed Dec 02 08:25:21 2015
Response via : Initial Calibration
DataAcq Meth : MUV5078.M

Volume Inj.  :
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info  : HP-VOC 105m x 0.53mm x 3.0um

     Compound                    R.T.       Response    Conc Units
---------------------------------------------------------------------------

System Monitoring Compounds
 3) S   a,a,a-Trifluorotoluene      11.06        5142480  265.629 ug/l
Spiked Amount   300.000                   Recovery      =   88.54%

Target Compounds
```

9.1.2

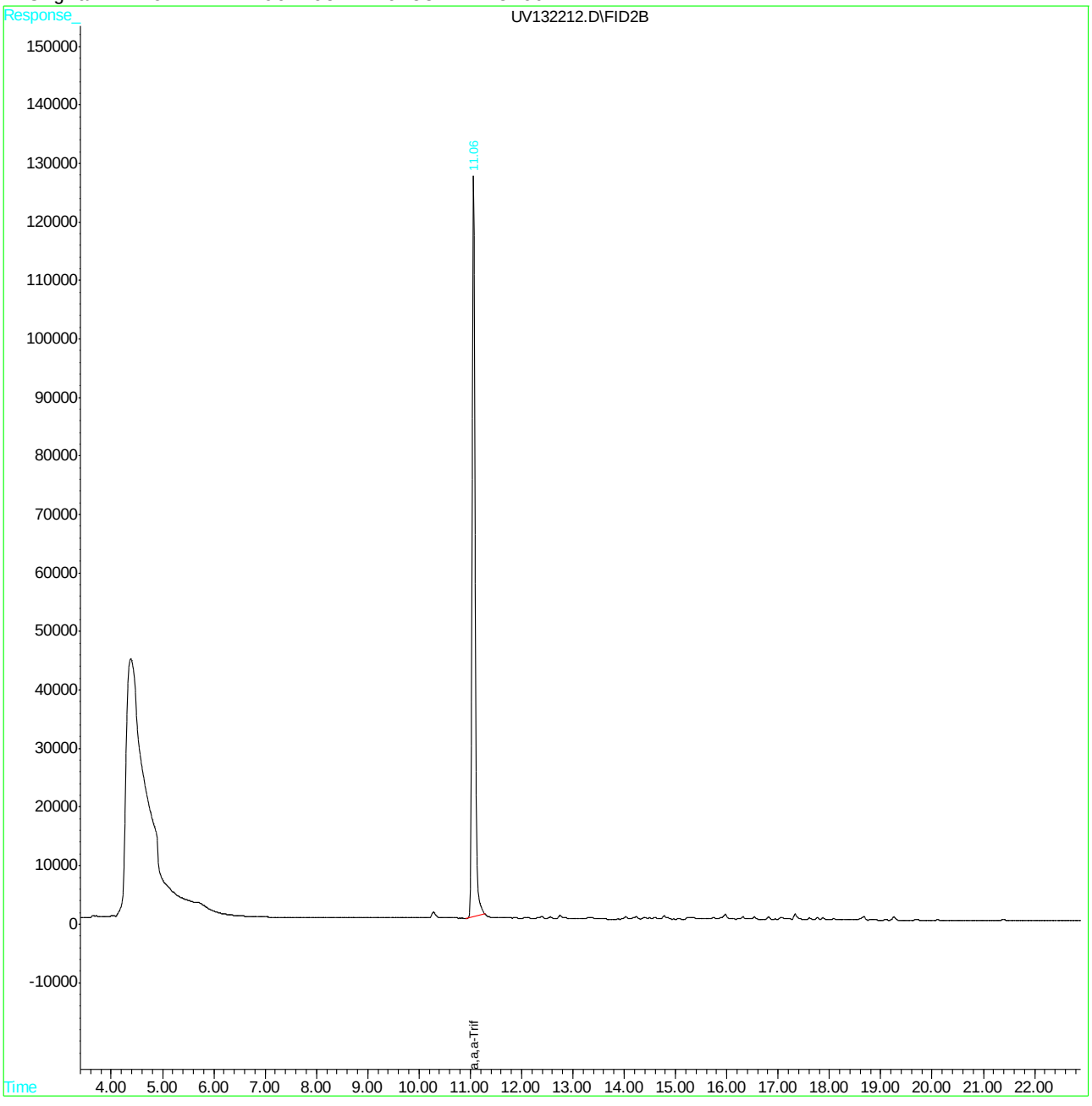
9

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\UV132212.D Vial: 8
Acq On : 8 Jul 2016 11:05 am Operator: NATHALIA
Sample : JC23588-2 Inst : GCUV
Misc : GC48767,GUV5315,5.0,,,,1 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Jul 12 8:40 2016 Quant Results File: MUV5078.RES

Quant Method : C:\HPCHEM\1\METHODS\MUV5078.M (Chemstation Integrator)
Title : Method SW846 8015C (GRO)
Last Update : Wed Dec 02 08:25:21 2015
Response via : Multiple Level Calibration
DataAcq Meth : MUV5078.M

Volume Inj. :
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : HP-VOC 105m x 0.53mm x 3.0um



Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\UV132225.D                    Vial: 21
Acq On    :  8 Jul 2016   6:12 pm                     Operator: NATHALIA
Sample    : JC23588-3                                 Inst    : GCUV
Misc      : GC48767,GUV5315,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint1.e
Quant Time: Jul 12  8:44 2016  Quant Results File: MUV5078.RES

Quant Method : C:\HPCHEM\1\METHODS\MUV5078.M (Chemstation Integrator)
Title        : Method SW846 8015C (GRO)
Last Update  : Wed Dec 02 08:25:21 2015
Response via : Initial Calibration
DataAcq Meth : MUV5078.M

Volume Inj.  :
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info  : HP-VOC 105m x 0.53mm x 3.0um

     Compound                    R.T.       Response    Conc Units
---------------------------------------------------------------------------

System Monitoring Compounds
 3) S   a,a,a-Trifluorotoluene      11.06        5136193  265.305 ug/l
Spiked Amount   300.000                   Recovery      =   88.44%

Target Compounds
```

9.1.3

9

```
---------------------------------------------------------------------------
(f)=RT Delta > 1/2 Window                                (m)=manual int.
UV132225.D  MUV5078.M      Tue Jul 12 08:44:16 2016      GCSY
```

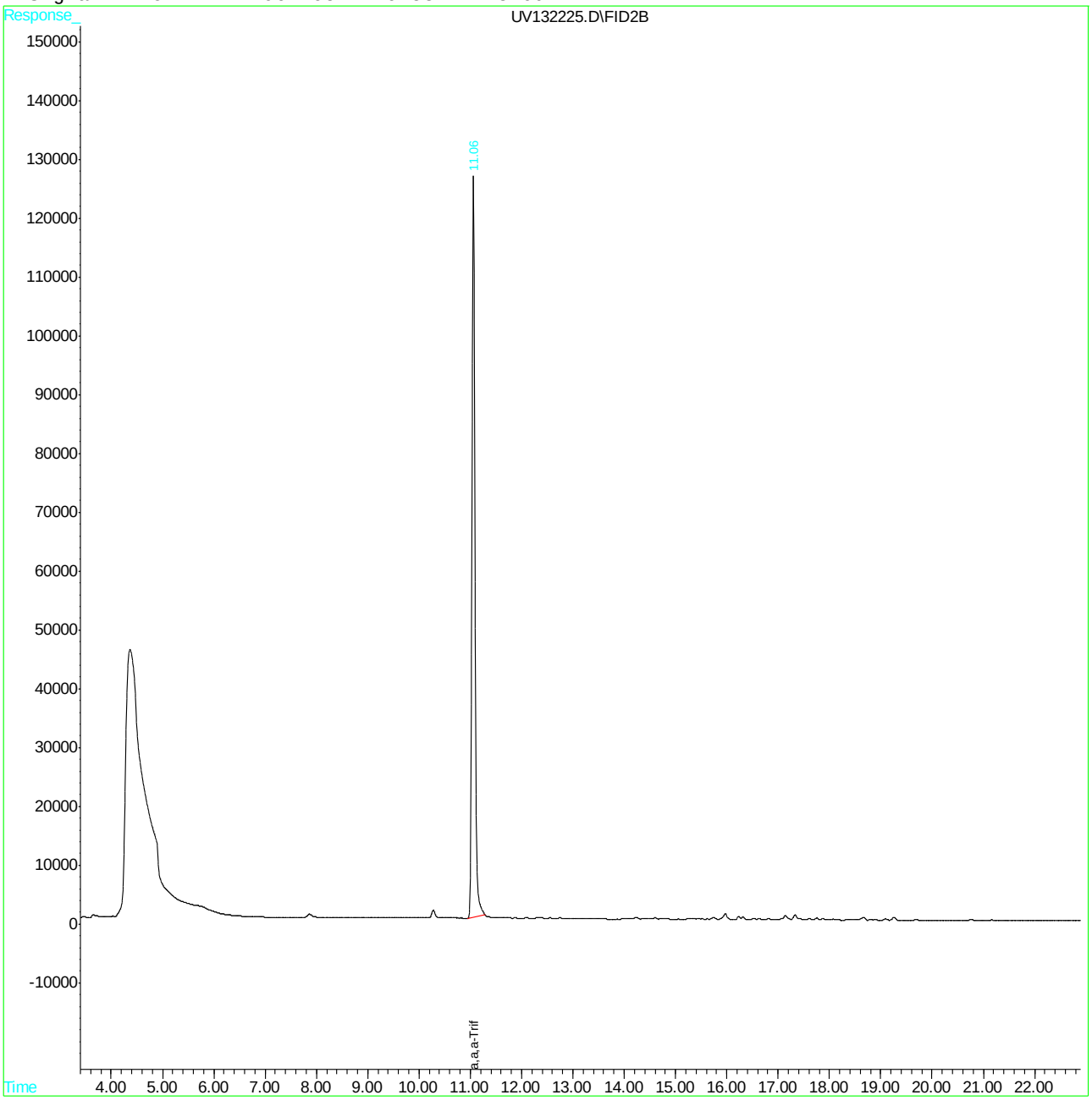

SGS ACCUTEST JC23588

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\UV132225.D Vial: 21
Acq On : 8 Jul 2016 6:12 pm Operator: NATHALIA
Sample : JC23588-3 Inst : GCUV
Misc : GC48767,GUV5315,5.0,,,,1 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Jul 12 8:44 2016 Quant Results File: MUV5078.RES

Quant Method : C:\HPCHEM\1\METHODS\MUV5078.M (Chemstation Integrator)
Title : Method SW846 8015C (GRO)
Last Update : Wed Dec 02 08:25:21 2015
Response via : Multiple Level Calibration
DataAcq Meth : MUV5078.M

Volume Inj. :
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : HP-VOC 105m x 0.53mm x 3.0um



Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\UV132226.D                    Vial: 22
Acq On    :  8 Jul 2016   6:41 pm                     Operator: NATHALIA
Sample    : JC23588-4                                 Inst    : GCUV
Misc      : GC48767,GUV5315,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint1.e
Quant Time: Jul 12  8:44 2016  Quant Results File: MUV5078.RES

Quant Method : C:\HPCHEM\1\METHODS\MUV5078.M (Chemstation Integrator)
Title        : Method SW846 8015C (GRO)
Last Update  : Wed Dec 02 08:25:21 2015
Response via : Initial Calibration
DataAcq Meth : MUV5078.M

Volume Inj.  :
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info  : HP-VOC 105m x 0.53mm x 3.0um

     Compound                    R.T.       Response    Conc Units
---------------------------------------------------------------------------

System Monitoring Compounds
 3) S   a,a,a-Trifluorotoluene      11.06        5076243  262.208 ug/l
Spiked Amount   300.000                   Recovery      =   87.40%

Target Compounds
```

9.1.4

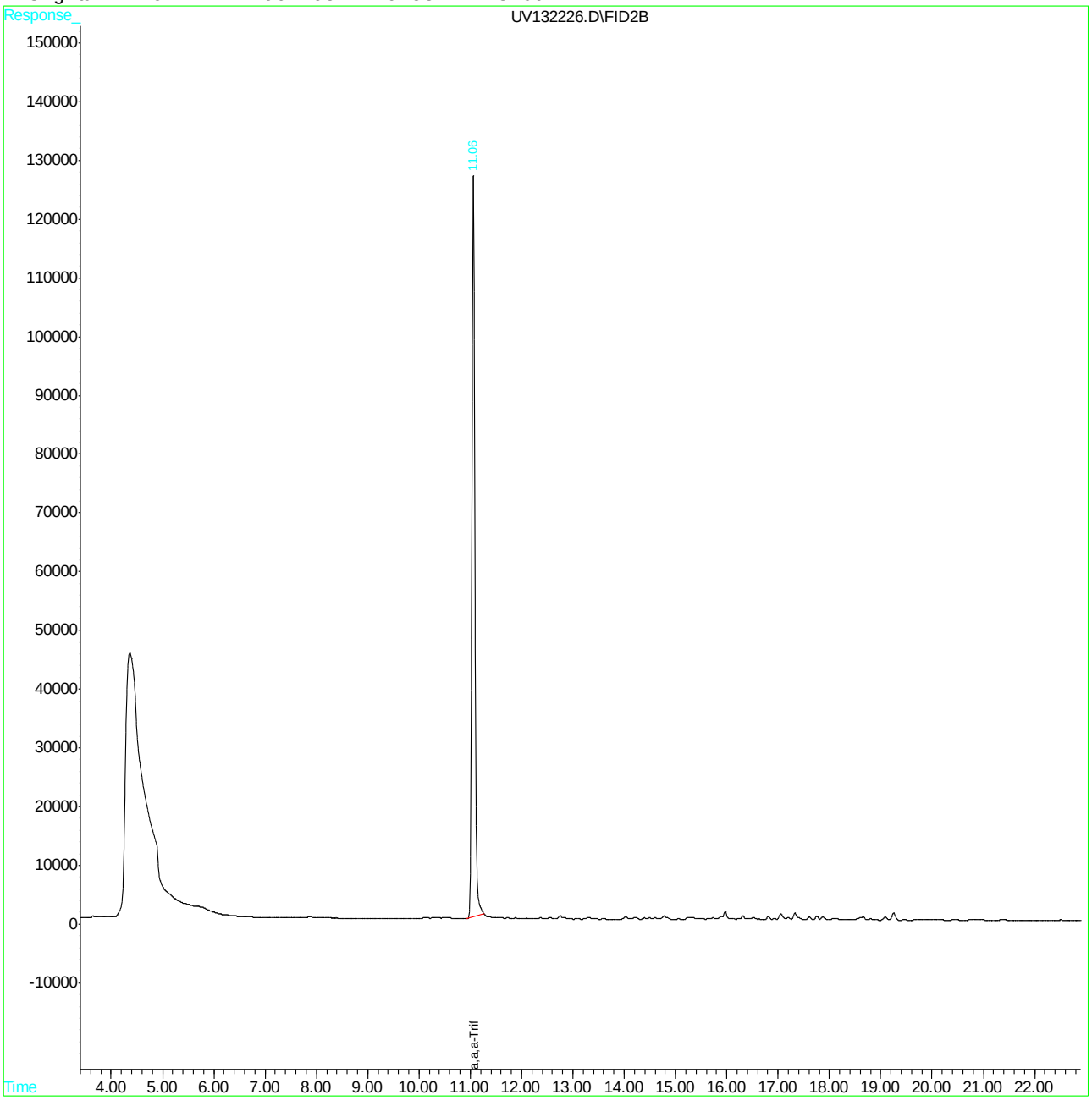
9

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\UV132226.D Vial: 22
Acq On : 8 Jul 2016 6:41 pm Operator: NATHALIA
Sample : JC23588-4 Inst : GCUV
Misc : GC48767,GUV5315,5.0,,,,1 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Jul 12 8:44 2016 Quant Results File: MUV5078.RES

Quant Method : C:\HPCHEM\1\METHODS\MUV5078.M (Chemstation Integrator)
Title : Method SW846 8015C (GRO)
Last Update : Wed Dec 02 08:25:21 2015
Response via : Multiple Level Calibration
DataAcq Meth : MUV5078.M

Volume Inj. :
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : HP-VOC 105m x 0.53mm x 3.0um



Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\UV132227.D                    Vial: 23
Acq On    :  8 Jul 2016   7:17 pm                     Operator: NATHALIA
Sample    : JC23588-5                                 Inst    : GCUV
Misc      : GC48767,GUV5315,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint1.e
Quant Time: Jul 12  8:44 2016  Quant Results File: MUV5078.RES

Quant Method : C:\HPCHEM\1\METHODS\MUV5078.M (Chemstation Integrator)
Title        : Method SW846 8015C (GRO)
Last Update  : Wed Dec 02 08:25:21 2015
Response via : Initial Calibration
DataAcq Meth : MUV5078.M

Volume Inj.  :
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info  : HP-VOC 105m x 0.53mm x 3.0um

     Compound                    R.T.       Response    Conc Units
---------------------------------------------------------------------------

System Monitoring Compounds
 3) S   a,a,a-Trifluorotoluene      11.06        5108311  263.864 ug/l
Spiked Amount   300.000                   Recovery      =   87.95%

Target Compounds
```

9.1.5

9

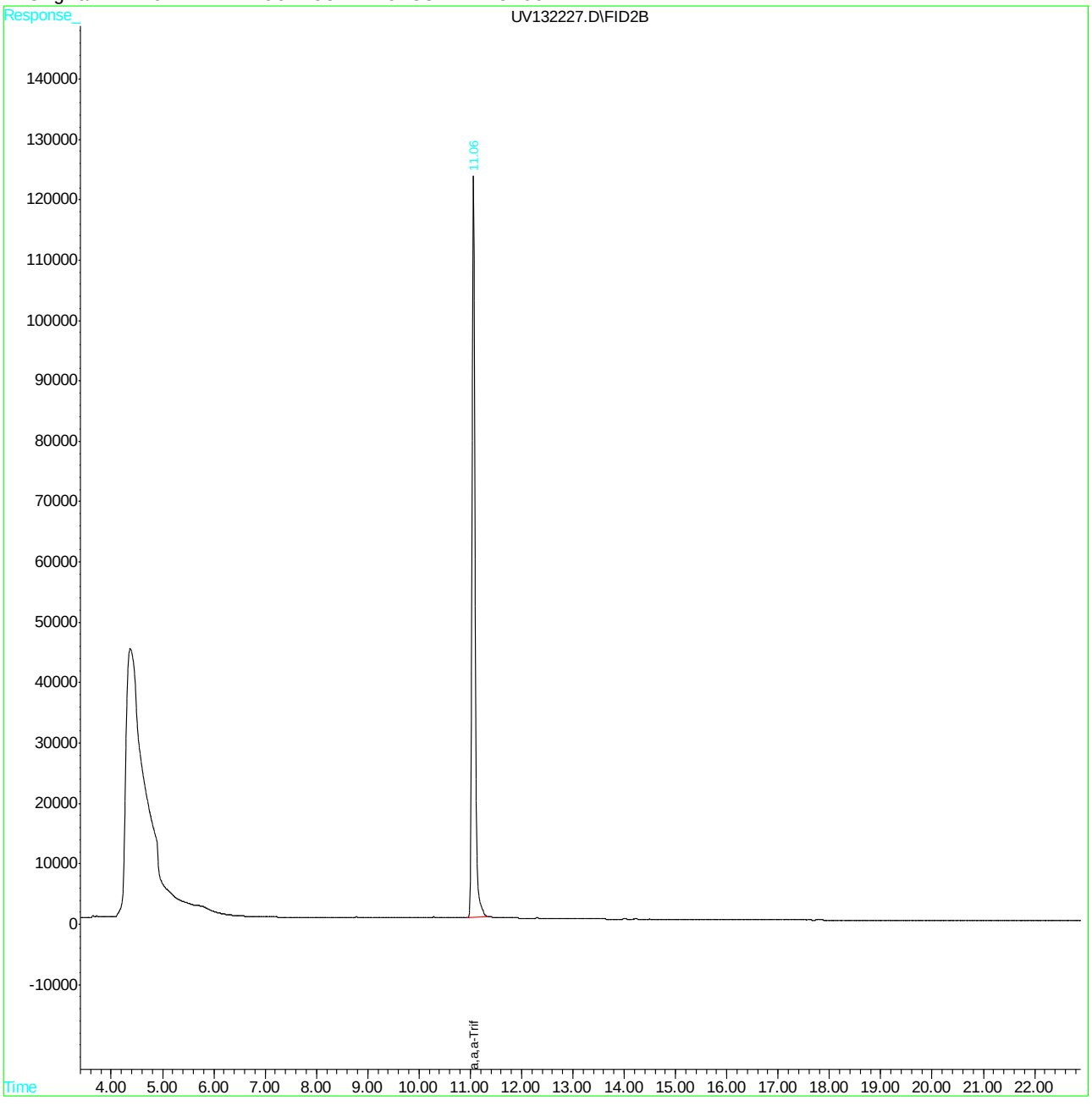
SGS ACCUTEST JC23588

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\UV132227.D Vial: 23
Acq On : 8 Jul 2016 7:17 pm Operator: NATHALIA
Sample : JC23588-5 Inst : GCUV
Misc : GC48767,GUV5315,5.0,,,,1 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Jul 12 8:44 2016 Quant Results File: MUV5078.RES

Quant Method : C:\HPCHEM\1\METHODS\MUV5078.M (Chemstation Integrator)
Title : Method SW846 8015C (GRO)
Last Update : Wed Dec 02 08:25:21 2015
Response via : Multiple Level Calibration
DataAcq Meth : MUV5078.M

Volume Inj. :
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : HP-VOC 105m x 0.53mm x 3.0um



Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\UV132231.D                    Vial: 27
Acq On    :  8 Jul 2016   9:20 pm                     Operator: NATHALIA
Sample    : JC23588-6                                 Inst    : GCUV
Misc      : GC48767,GUV5315,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint1.e
Quant Time: Jul 12  8:45 2016  Quant Results File: MUV5078.RES

Quant Method : C:\HPCHEM\1\METHODS\MUV5078.M (Chemstation Integrator)
Title        : Method SW846 8015C (GRO)
Last Update  : Wed Dec 02 08:25:21 2015
Response via : Initial Calibration
DataAcq Meth : MUV5078.M

Volume Inj.  :
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info  : HP-VOC 105m x 0.53mm x 3.0um

     Compound                    R.T.       Response    Conc Units
---------------------------------------------------------------------------

System Monitoring Compounds
 3) S   a,a,a-Trifluorotoluene      11.06        5184641  267.807 ug/l
Spiked Amount   300.000                   Recovery      =   89.27%

Target Compounds
 1) H   TPH-GRO (C6-C10)            11.00        2354347  145.004 ug/l
```

9.1.6

6

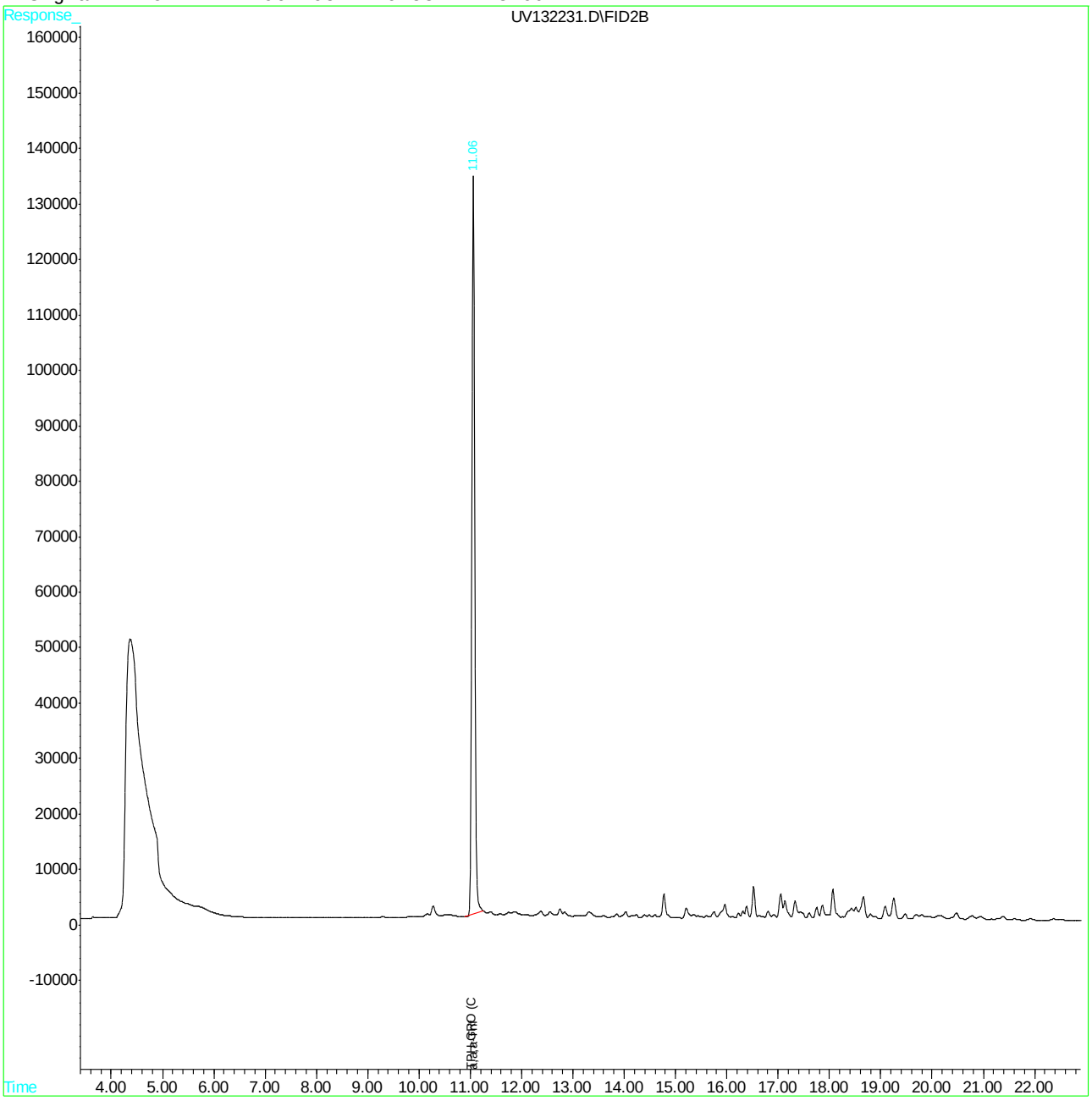
SGS ACCUTEST JC23588

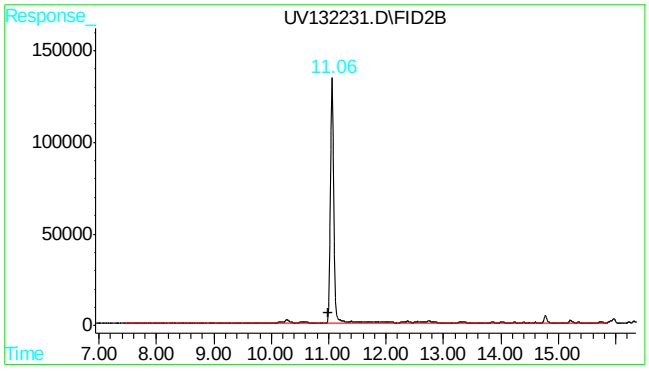
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\UV132231.D Vial: 27
Acq On : 8 Jul 2016 9:20 pm Operator: NATHALIA
Sample : JC23588-6 Inst : GCUV
Misc : GC48767,GUV5315,5.0,,,,1 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Jul 12 8:45 2016 Quant Results File: MUV5078.RES

Quant Method : C:\HPCHEM\1\METHODS\MUV5078.M (Chemstation Integrator)
Title : Method SW846 8015C (GRO)
Last Update : Wed Dec 02 08:25:21 2015
Response via : Multiple Level Calibration
DataAcq Meth : MUV5078.M

Volume Inj. :
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : HP-VOC 105m x 0.53mm x 3.0um





#1 TPH-GRO (C6-C10)

R.T.: 11.000 min
Delta R.T.: 0.000 min
Response: 2354347
Conc: 145.00 ug/l m

Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\UV132228.D                    Vial: 24
Acq On    :  8 Jul 2016   7:46 pm                     Operator: NATHALIA
Sample    : JC23588-7                                 Inst    : GCUV
Misc      : GC48767,GUV5315,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint1.e
Quant Time: Jul 12  8:45 2016  Quant Results File: MUV5078.RES

Quant Method : C:\HPCHEM\1\METHODS\MUV5078.M (Chemstation Integrator)
Title        : Method SW846 8015C (GRO)
Last Update  : Wed Dec 02 08:25:21 2015
Response via : Initial Calibration
DataAcq Meth : MUV5078.M

Volume Inj.  :
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info  : HP-VOC 105m x 0.53mm x 3.0um
```

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) S a,a,a-Trifluorotoluene	11.06	5194167	268.299 ug/l
Spiked Amount 300.000		Recovery =	89.43%
Target Compounds			

9.1.7

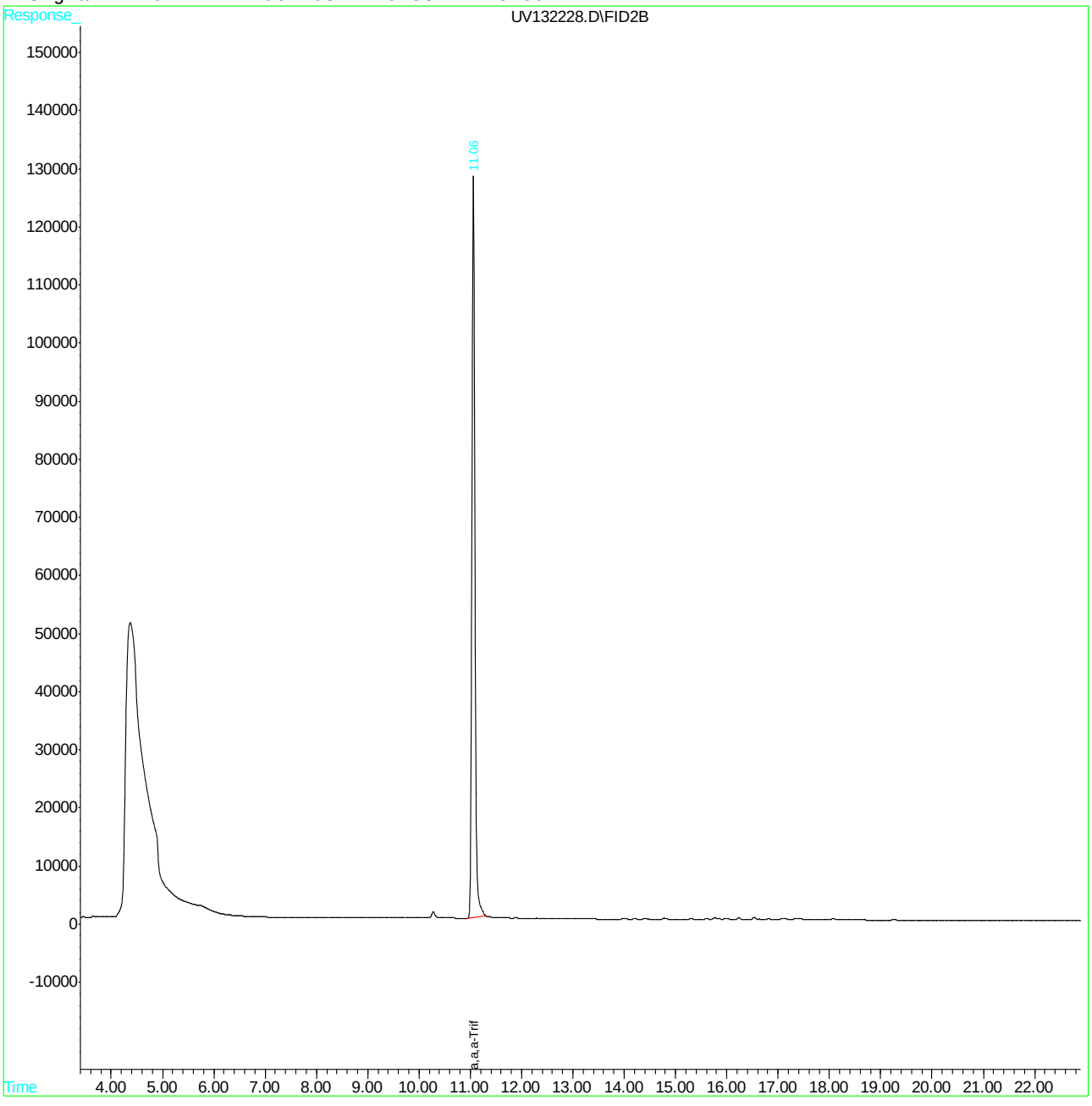
9

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\UV132228.D Vial: 24
Acq On : 8 Jul 2016 7:46 pm Operator: NATHALIA
Sample : JC23588-7 Inst : GCUV
Misc : GC48767,GUV5315,5.0,,,,1 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Jul 12 8:45 2016 Quant Results File: MUV5078.RES

Quant Method : C:\HPCHEM\1\METHODS\MUV5078.M (Chemstation Integrator)
Title : Method SW846 8015C (GRO)
Last Update : Wed Dec 02 08:25:21 2015
Response via : Multiple Level Calibration
DataAcq Meth : MUV5078.M

Volume Inj. :
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : HP-VOC 105m x 0.53mm x 3.0um



Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\UV132229.D                    Vial: 25
Acq On    :  8 Jul 2016   8:15 pm                     Operator: NATHALIA
Sample    : JC23588-8                                 Inst    : GCUV
Misc      : GC48767,GUV5315,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint1.e
Quant Time: Jul 12  8:45 2016  Quant Results File: MUV5078.RES

Quant Method : C:\HPCHEM\1\METHODS\MUV5078.M (Chemstation Integrator)
Title        : Method SW846 8015C (GRO)
Last Update  : Wed Dec 02 08:25:21 2015
Response via : Initial Calibration
DataAcq Meth : MUV5078.M

Volume Inj.  :
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info  : HP-VOC 105m x 0.53mm x 3.0um

     Compound                    R.T.       Response    Conc Units
---------------------------------------------------------------------------

System Monitoring Compounds
 3) S   a,a,a-Trifluorotoluene      11.06        5212601  269.251 ug/l
Spiked Amount   300.000                   Recovery      =   89.75%

Target Compounds
```

9.1.8

9

```
---------------------------------------------------------------------------
(f)=RT Delta > 1/2 Window                                (m)=manual int.
UV132229.D  MUV5078.M      Tue Jul 12 08:59:59 2016      GCSY
```

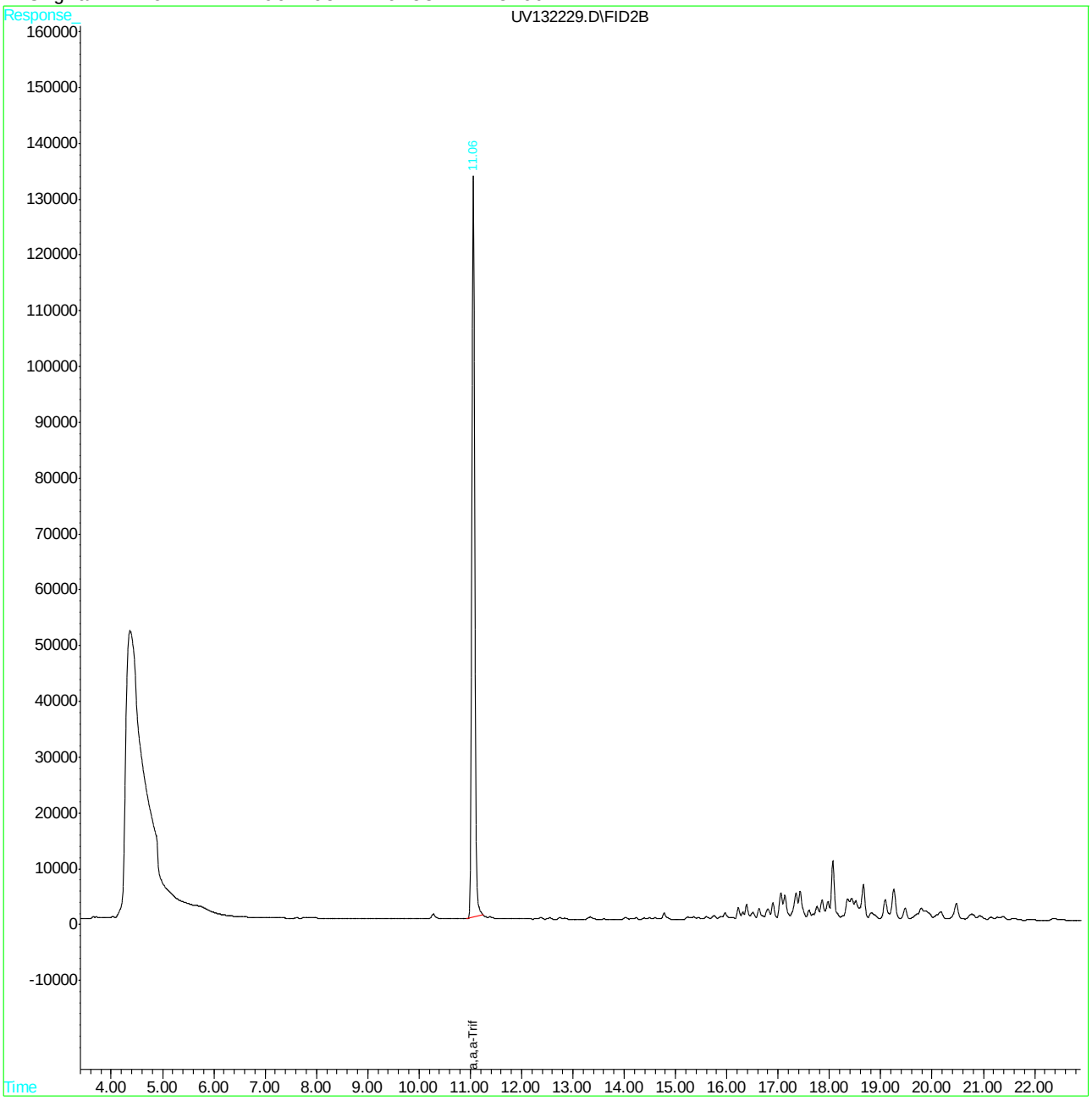

SGS ACCUTEST JC23588

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\UV132229.D Vial: 25
Acq On : 8 Jul 2016 8:15 pm Operator: NATHALIA
Sample : JC23588-8 Inst : GCUV
Misc : GC48767,GUV5315,5.0,,,,1 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Jul 12 8:45 2016 Quant Results File: MUV5078.RES

Quant Method : C:\HPCHEM\1\METHODS\MUV5078.M (Chemstation Integrator)
Title : Method SW846 8015C (GRO)
Last Update : Wed Dec 02 08:25:21 2015
Response via : Multiple Level Calibration
DataAcq Meth : MUV5078.M

Volume Inj. :
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : HP-VOC 105m x 0.53mm x 3.0um



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\UV132230.D Vial: 26
Acq On : 8 Jul 2016 8:51 pm Operator: NATHALIA
Sample : JC23588-9 Inst : GCUV
Misc : GC48767,GUV5315,5.0,,,,1 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Jul 12 8:45 2016 Quant Results File: MUV5078.RES

Quant Method : C:\HPCHEM\1\METHODS\MUV5078.M (Chemstation Integrator)
Title : Method SW846 8015C (GRO)
Last Update : Wed Dec 02 08:25:21 2015
Response via : Initial Calibration
DataAcq Meth : MUV5078.M

Volume Inj. :
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : HP-VOC 105m x 0.53mm x 3.0um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) S a,a,a-Trifluorotoluene	11.06	5223951	269.838 ug/l
Spiked Amount 300.000		Recovery =	89.95%
Target Compounds			
1) H TPH-GRO (C6-C10)	11.00	5704768	351.355 ug/l

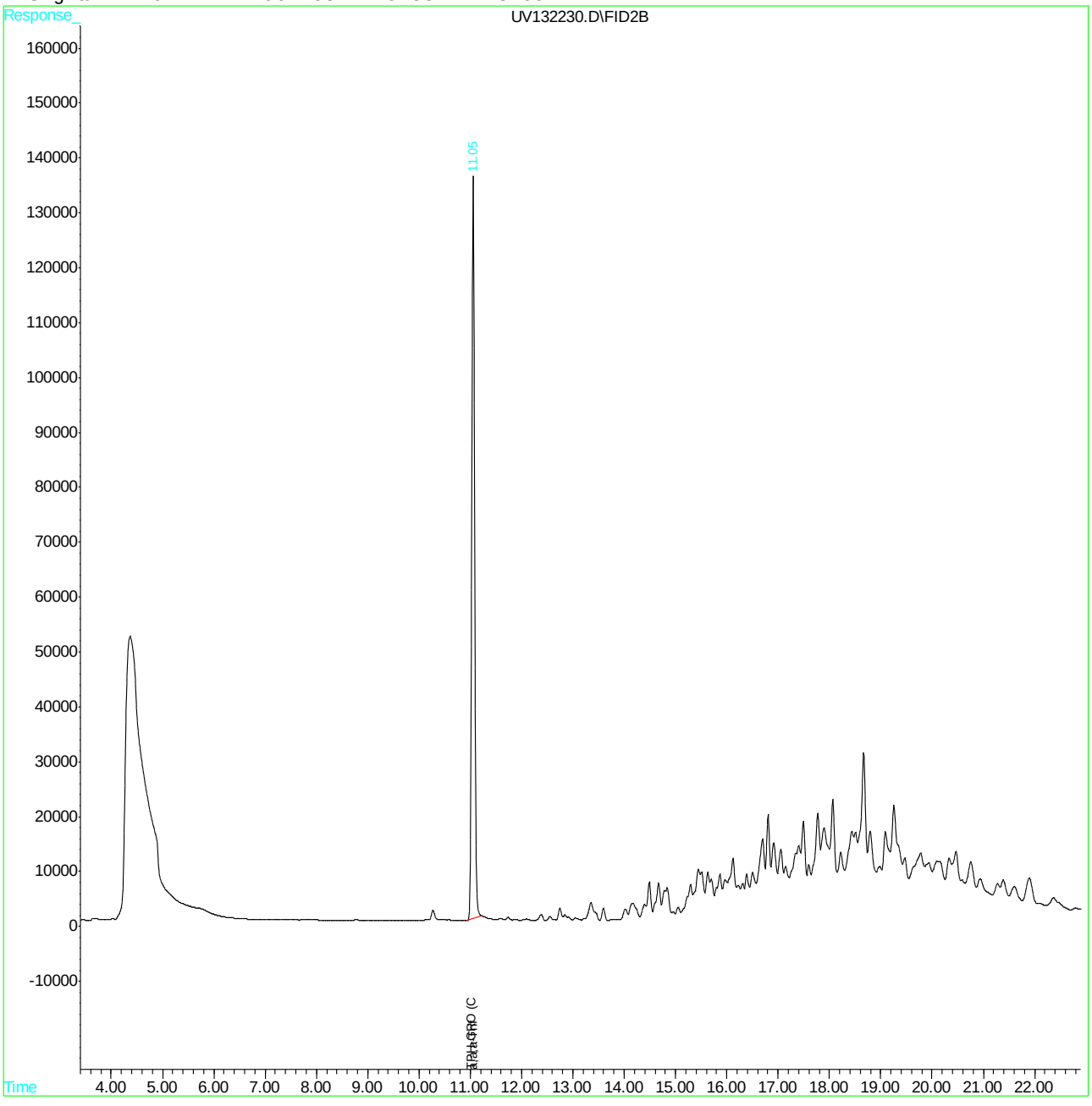
(f)=RT Delta > 1/2 Window (m)=manual int.

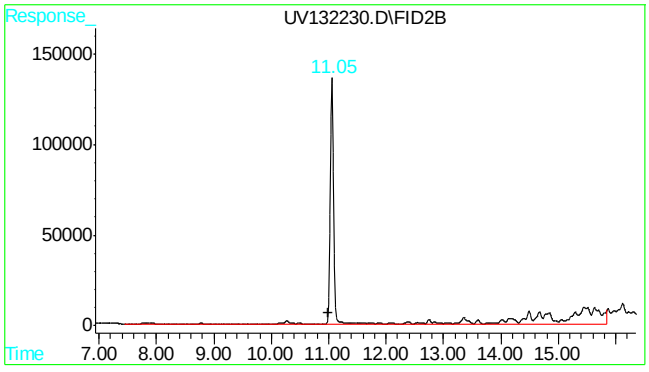
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\UV132230.D Vial: 26
Acq On : 8 Jul 2016 8:51 pm Operator: NATHALIA
Sample : JC23588-9 Inst : GCUV
Misc : GC48767,GUV5315,5.0,,,,1 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Jul 12 8:45 2016 Quant Results File: MUV5078.RES

Quant Method : C:\HPCHEM\1\METHODS\MUV5078.M (Chemstation Integrator)
Title : Method SW846 8015C (GRO)
Last Update : Wed Dec 02 08:25:21 2015
Response via : Multiple Level Calibration
DataAcq Meth : MUV5078.M

Volume Inj. :
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : HP-VOC 105m x 0.53mm x 3.0um





#1 TPH-GRO (C6-C10)

R.T.: 11.000 min
Delta R.T.: 0.000 min
Response: 5704768
Conc: 351.36 ug/l m

9.1.9

9

SGS ACCUTEST JC23588

Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\UV132209.D                    Vial: 5
Acq On    :  8 Jul 2016   9:22 am                     Operator: NATHALIA
Sample    : MB1                                       Inst    : GCUV
Misc      : GC48761,GUV5315,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint1.e
Quant Time: Jul 12  8:39 2016  Quant Results File: MUV5078.RES

Quant Method : C:\HPCHEM\1\METHODS\MUV5078.M (Chemstation Integrator)
Title        : Method SW846 8015C (GRO)
Last Update  : Wed Dec 02 08:25:21 2015
Response via : Initial Calibration
DataAcq Meth : MUV5078.M

Volume Inj.  :
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info  : HP-VOC 105m x 0.53mm x 3.0um

     Compound                    R.T.       Response    Conc Units
---------------------------------------------------------------------------

System Monitoring Compounds
 3) S   a,a,a-Trifluorotoluene      11.06        5154998  266.276 ug/l
Spiked Amount   300.000                   Recovery      =   88.76%

Target Compounds
```

9.2.1

9

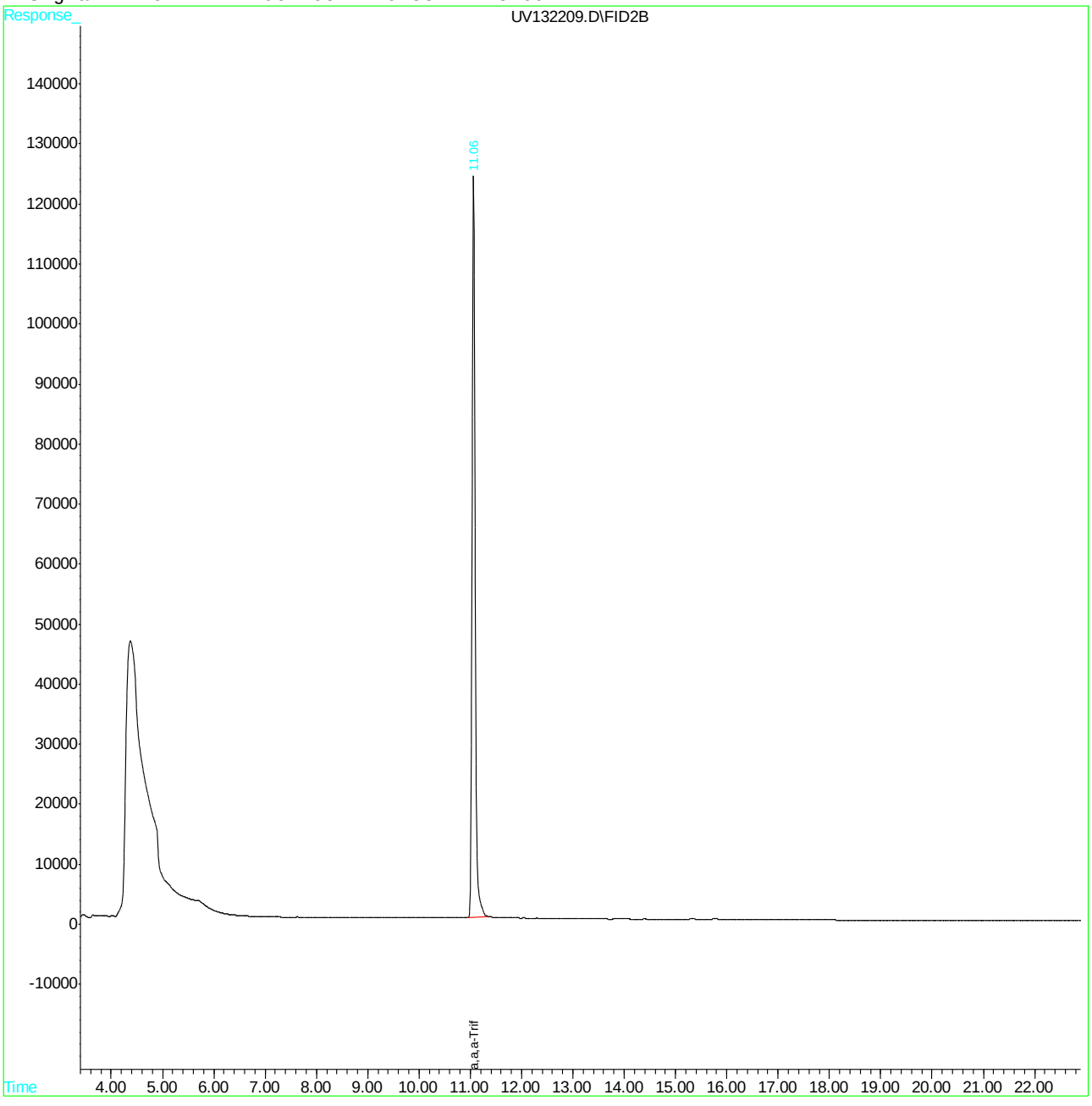
SGS ACCUTEST JC23588

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\UV132209.D Vial: 5
Acq On : 8 Jul 2016 9:22 am Operator: NATHALIA
Sample : MB1 Inst : GCUV
Misc : GC48761,GUV5315,5.0,,,,1 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Jul 12 8:39 2016 Quant Results File: MUV5078.RES

Quant Method : C:\HPCHEM\1\METHODS\MUV5078.M (Chemstation Integrator)
Title : Method SW846 8015C (GRO)
Last Update : Wed Dec 02 08:25:21 2015
Response via : Multiple Level Calibration
DataAcq Meth : MUV5078.M

Volume Inj. :
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : HP-VOC 105m x 0.53mm x 3.0um



Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\UV132224.D                    Vial: 20
Acq On    :  8 Jul 2016   5:43 pm                     Operator: NATHALIA
Sample    : MB3                                       Inst    : GCUV
Misc      : GC48767,GUV5315,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint1.e
Quant Time: Jul 12  8:44 2016  Quant Results File: MUV5078.RES

Quant Method : C:\HPCHEM\1\METHODS\MUV5078.M (Chemstation Integrator)
Title        : Method SW846 8015C (GRO)
Last Update  : Wed Dec 02 08:25:21 2015
Response via : Initial Calibration
DataAcq Meth : MUV5078.M

Volume Inj.  :
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info  : HP-VOC 105m x 0.53mm x 3.0um

     Compound                    R.T.       Response    Conc Units
---------------------------------------------------------------------------

System Monitoring Compounds
 3) S   a,a,a-Trifluorotoluene      11.06        5153227  266.184 ug/l
Spiked Amount   300.000                   Recovery      =   88.73%

Target Compounds
```

9.2.2

9

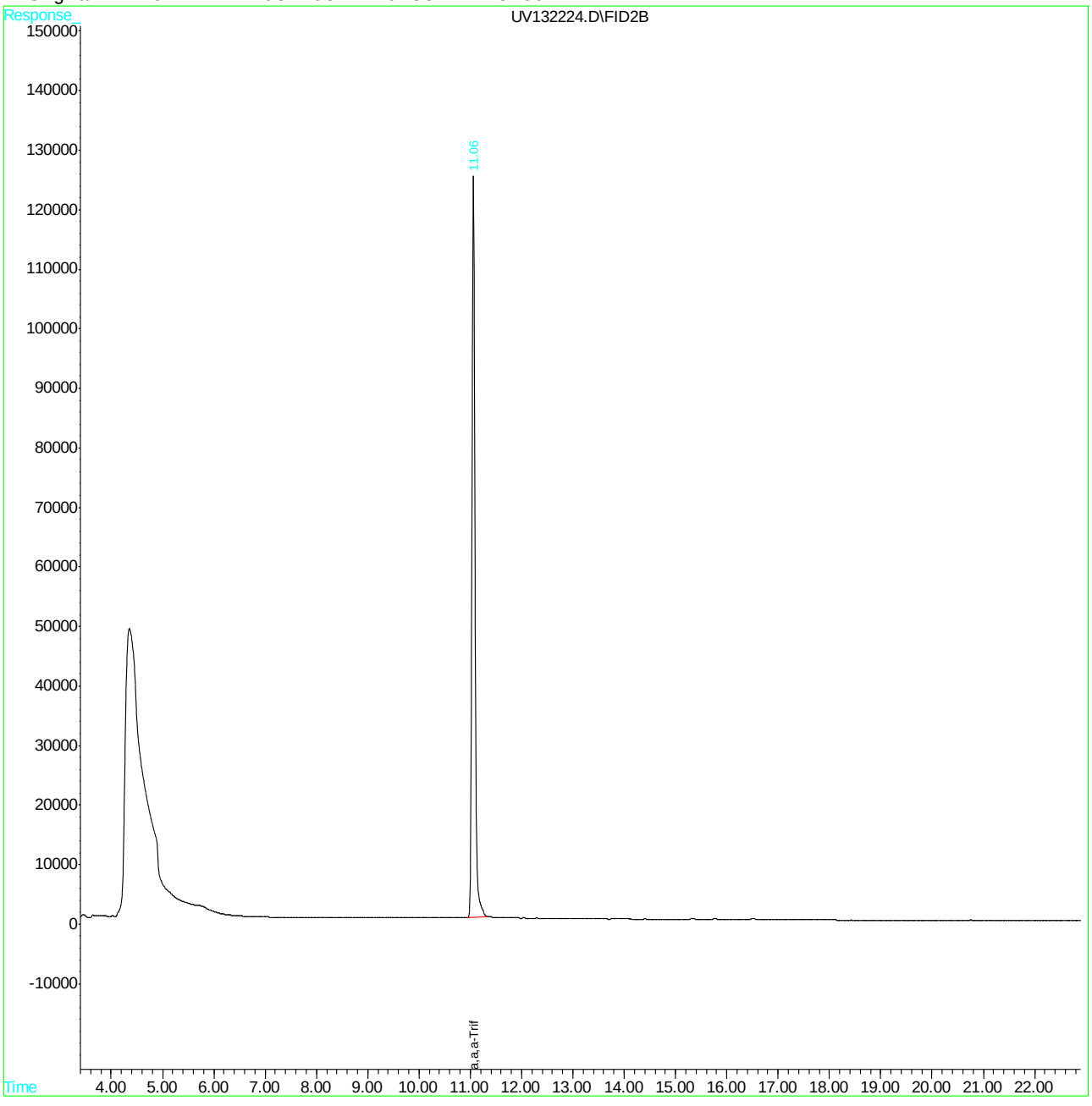
SGS ACCUTEST JC23588

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\UV132224.D Vial: 20
Acq On : 8 Jul 2016 5:43 pm Operator: NATHALIA
Sample : MB3 Inst : GCUV
Misc : GC48767,GUV5315,5.0,,,,1 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Jul 12 8:44 2016 Quant Results File: MUV5078.RES

Quant Method : C:\HPCHEM\1\METHODS\MUV5078.M (Chemstation Integrator)
Title : Method SW846 8015C (GRO)
Last Update : Wed Dec 02 08:25:21 2015
Response via : Multiple Level Calibration
DataAcq Meth : MUV5078.M

Volume Inj. :
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : HP-VOC 105m x 0.53mm x 3.0um



GC Semi-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
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP95461-MB1	7Z18771.D	1	07/15/16	TL	07/12/16	OP95461	G7Z757

The QC reported here applies to the following samples: **Method:** SW846 8015C

JC23588-1, JC23588-2, JC23588-3, JC23588-4, JC23588-5, JC23588-6, JC23588-7, JC23588-8, JC23588-9

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	0.083	0.064	mg/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	81%	36-144%
16416-32-3	Tetracosane-d50	78%	32-138%
438-22-2	5a-Androstane	84%	31-136%

Blank Spike Summary

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP95461-BS1	7Z18706.D	1	07/13/16	RK	07/12/16	OP95461	G7Z755

The QC reported here applies to the following samples: **Method:** SW846 8015C

JC23588-1, JC23588-2, JC23588-3, JC23588-4, JC23588-5, JC23588-6, JC23588-7, JC23588-8, JC23588-9

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH-DRO (C10-C28)	3.33	1.56	47	15-111

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	58%	36-144%
16416-32-3	Tetracosane-d50	54%	32-138%
438-22-2	5a-Androstane	56%	31-136%

10.2.1

10

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP95461-MS	7Z18709.D	1	07/13/16	RK	07/12/16	OP95461	G7Z755
OP95461-MSD	7Z18710.D	1	07/13/16	RK	07/12/16	OP95461	G7Z755
JC23588-1	7Z18708.D	1	07/13/16	RK	07/12/16	OP95461	G7Z755

The QC reported here applies to the following samples: **Method:** SW846 8015C

JC23588-1, JC23588-2, JC23588-3, JC23588-4, JC23588-5, JC23588-6, JC23588-7, JC23588-8, JC23588-9

CAS No.	Compound	JC23588-1 mg/l	Q	Spike mg/l	MS mg/l	MS %	Spike mg/l	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	0.873		6.67	5.22	65	6.67	3.80	44	31	23-160/31

CAS No.	Surrogate Recoveries	MS	MSD	JC23588-1	Limits
84-15-1	o-Terphenyl	85%	61%	89%	36-144%
16416-32-3	Tetracosane-d50	85%	60%	85%	32-138%
438-22-2	5a-Androstane	88%	63%	87%	31-136%

10.3.1

10

* = Outside of Control Limits.

Semivolatile Surrogate Recovery Summary

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Method: SW846 8015C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S2 [a]	S3 [a]
JC23588-1	7Z18708.D	89	85	87
JC23588-2	7Z18711.D	104	92	93
JC23588-3	7Z18712.D	80	76	79
JC23588-4	7Z18713.D	79	59	60
JC23588-5	7Z18716.D	84	82	86
JC23588-6	7Z18717.D	103	96	99
JC23588-7	7Z18718.D	86	76	77
JC23588-8	7Z18719.D	96	86	90
JC23588-9	7Z18720.D	96	71	78
OP95461-BS1	7Z18706.D	58	54	56
OP95461-MB1	7Z18771.D	81	78	84
OP95461-MS	7Z18709.D	85	85	88
OP95461-MSD	7Z18710.D	61	60	63

Surrogate Compounds	Recovery Limits
S1 = o-Terphenyl	36-144%
S2 = Tetracosane-d50	32-138%
S3 = 5a-Androstane	31-136%

(a) Recovery from GC signal #1

GC Surrogate Retention Time Summary

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Check Std:	G7Z755-CC747	**Injection Date:**	07/13/16
Lab File ID:	7Z18696.D	**Injection Time:**	08:37
Instrument ID:	GC7Z	**Method:**	SW846 8015C

	S1 [a] RT	S2 [a] RT	S3 [a] RT
Check Std	8.57	10.55	9.26

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S2 [a] RT	S3 [a] RT
G7Z755-RT	7Z18698.D	07/13/16	09:50			
JC23698-1	7Z18699.D	07/13/16	10:24	8.58	10.55	9.26
ZZZZZZ	7Z18700.D	07/13/16	10:57	8.58	10.55	9.26
ZZZZZZ	7Z18701.D	07/13/16	11:31	8.57	10.55	9.26
ZZZZZZ	7Z18702.D	07/13/16	12:06	8.61	10.56	9.29

Surrogate Compounds

S1 = o-Terphenyl
S2 = Tetracosane-d50
S3 = 5a-Androstane

(a) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Check Std:	G7Z755-CC747	**Injection Date:**	07/13/16
Lab File ID:	7Z18703.D	**Injection Time:**	12:39
Instrument ID:	GC7Z	**Method:**	SW846 8015C

	S1 [a] RT	S2 [a] RT	S3 [a] RT
Check Std	8.57	10.55	9.25

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S2 [a] RT	S3 [a] RT
OP95461-BS1	7Z18706.D	07/13/16	15:20	8.57	10.55	9.26
ZZZZZZ	7Z18707.D	07/13/16	15:54	8.59	10.56	9.28
JC23588-1	7Z18708.D	07/13/16	16:27	8.58	10.55	9.26
OP95461-MS	7Z18709.D	07/13/16	17:01	8.58	10.55	9.26
OP95461-MSD	7Z18710.D	07/13/16	17:34	8.57	10.55	9.26
JC23588-2	7Z18711.D	07/13/16	18:08	8.58	10.55	9.26
JC23588-3	7Z18712.D	07/13/16	18:41	8.58	10.56	9.26
JC23588-4	7Z18713.D	07/13/16	19:15	8.58	10.55	9.26

Surrogate Compounds

S1 = o-Terphenyl
S2 = Tetracosane-d50
S3 = 5a-Androstane

(a) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Check Std:	G7Z755-CC747	**Injection Date:**	07/13/16
Lab File ID:	7Z18714.D	**Injection Time:**	19:49
Instrument ID:	GC7Z	**Method:**	SW846 8015C

	S1 [a] RT	S2 [a] RT	S3 [a] RT
Check Std	8.57	10.55	9.26

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S2 [a] RT	S3 [a] RT
JC23588-5	7Z18716.D	07/13/16	20:56	8.58	10.55	9.26
JC23588-6	7Z18717.D	07/13/16	21:29	8.59	10.56	9.27
JC23588-7	7Z18718.D	07/13/16	22:03	8.58	10.55	9.26
JC23588-8	7Z18719.D	07/13/16	22:37	8.58	10.55	9.27
JC23588-9	7Z18720.D	07/13/16	23:10	8.59	10.55	9.27
ZZZZZZ	7Z18721.D	07/13/16	23:44	8.58	10.55	9.26
ZZZZZZ	7Z18722.D	07/14/16	00:17	8.58	10.55	9.26
ZZZZZZ	7Z18723.D	07/14/16	00:51	8.58	10.55	9.26
ZZZZZZ	7Z18724.D	07/14/16	01:25	8.58	10.55	9.26

Surrogate Compounds

S1 = o-Terphenyl
S2 = Tetracosane-d50
S3 = 5a-Androstane

(a) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Check Std:	G7Z757-CC747	**Injection Date:**	07/15/16
Lab File ID:	7Z18769.D	**Injection Time:**	17:02
Instrument ID:	GC7Z	**Method:**	SW846 8015C

	S1 [a] RT	S2 [a] RT	S3 [a] RT
Check Std	8.56	10.55	9.25

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S2 [a] RT	S3 [a] RT
OP95461-MB1	7Z18771.D	07/15/16	18:09	8.57	10.55	9.26
JC24012-2	7Z18772.D	07/15/16	18:43	8.57	10.55	9.25
OP95571-MS	7Z18773.D	07/15/16	19:16	8.57	10.55	9.26
OP95571-MSD	7Z18774.D	07/15/16	19:50	8.57	10.55	9.26
ZZZZZZ	7Z18775.D	07/15/16	20:24	8.57	10.55	9.25
ZZZZZZ	7Z18776.D	07/15/16	20:57	8.57	10.55	9.26
ZZZZZZ	7Z18777.D	07/15/16	21:31	8.57	10.55	9.25

Surrogate Compounds

S1 = o-Terphenyl
S2 = Tetracosane-d50
S3 = 5a-Androstane

(a) Retention time from GC signal #1

Initial Calibration Summary

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample: G7Z747-ICC747
Lab FileID: 7Z18435.D

Response Factor Report HP G1530A

Method : C:\msdchem\1\METHODS\DRO7Z747.M (Chemstation Integrator)
Title :
Last Update : Tue Jul 05 17:01:45 2016
Response via : Initial Calibration

Calibration Files
250 =7z18433.D 500 =7z18434.D 1000=7z18435.D 2500=7z18436.D
5000=7z18437.D 100 =7z18432.D 10k =7z18438.D 50k =7z18439.D 25 =7z18430.D 50 =7z18431.D

Compound	250	500	1000	2500	5000	100	10k	50k	25	50	Avg	%RSD
1) TPH-DRO	1.471	1.636	1.764	1.681	1.645	1.468	2.027	1.752	1.356	1.532	1.633 E6	11.72
2) TPH-DRO (C10	1.471	1.636	1.764	1.681	1.645	1.468	2.027	1.752	1.356	1.532	1.633 E6	11.72
3) TPH-ORO (>C2	1.471	1.636	1.764	1.681	1.645	1.468	2.027	1.752	1.356	1.532	1.633 E6	11.72
4) TPH-HRO (C18	1.471	1.636	1.764	1.681	1.645	1.468	2.027	1.752	1.356	1.532	1.633 E6	11.72
5) TPH-DRO (C10	1.471	1.636	1.764	1.681	1.645	1.468	2.027	1.752	1.356	1.532	1.633 E6	11.72
6) TPH-ORO (C20	1.471	1.636	1.764	1.681	1.645	1.468	2.027	1.752	1.356	1.532	1.633 E6	11.72
7) TPH (c12-c40	1.471	1.636	1.764	1.681	1.645	1.468	2.027	1.752	1.356	1.532	1.633 E6	11.72
8) o-Terphenyl	1.839	1.960	2.096	2.004	1.964	1.831			1.855	2.018	1.946 E6	4.93
9) 5a-Androstan	1.771	1.910	2.090	1.979	1.967	1.787			1.791	1.958	1.907 E6	5.99
10) Tetracosane-	1.487	1.667	1.756	1.684	1.647	1.562			1.561	1.640	1.626 E6	5.22

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

DRO7Z747.M Tue Jul 05 17:02:58 2016

10.6.1

10

Initial Calibration Verification

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD
Sample: G7Z747-ICV747
Lab FileID: 7Z18440.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\G7Z747\7z18440.D          Vial: 66
Acq On    : 01 Jul 2016   6:48 pm                   Operator: thomasl
Sample    : icv747-1000                             Inst    : HP G1530A
Misc      : op95088,g7z747,1.0,,,10,1               Multiplr: 1.00
IntFile   : events.e

Method       : C:\msdchem\1\METHODS\DRO7Z747.M (Chemstation Integrator)
Title        :
Last Update  : Tue Jul 05 17:01:45 2016
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 : 150%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	H	TPH-DRO	1.633	1.873 E6	-14.7	106	0.00	2.80-12.20
2	H	TPH-DRO (C10-C44)		----------NA----------				
3	H	TPH-ORO (>C28-C40)		----------NA----------				
4	H	TPH-HRO (C18-C36)		----------NA----------				
5	H	TPH-DRO (C10-C20)		----------NA----------				
6	H	TPH-ORO (C20-C34)		----------NA----------				
7	h	TPH (c12-c40)		----------NA----------				
8	S	o-Terphenyl		----------NA----------				
9	S	5a-Androstane		----------NA----------				
10	S	Tetracosane-d50		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7z18435.D DRO7Z747.M Tue Jul 05 17:02:48 2016

10.6.2 10

Continuing Calibration Summary

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD
Sample: G7Z755-CC747
Lab FileID: 7Z18696.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\G7Z755\7z18696.D          Vial: 4
Acq On    : 13 Jul 2016   8:37 am                   Operator: rebeccak
Sample    : cc747-1000                              Inst    : HP G1530A
Misc      : op95451,g7z755,10.0,,,1,1               Multiplr: 1.00
IntFile   : events.e

Method       : C:\msdchem\1\METHODS\DRO7Z747.M (Chemstation Integrator)
Title        :
Last Update  : Tue Jul 12 17:31:19 2016
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 : 150%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	H	TPH-DRO	1.633	1.571 E6	3.8	89	0.00	2.80-12.20
2	H	TPH-DRO (C10-C44)		----------NA----------				
3	H	TPH-ORO (>C28-C40)		----------NA----------				
4	H	TPH-HRO (C18-C36)		----------NA----------				
5	H	TPH-DRO (C10-C20)		----------NA----------				
6	H	TPH-ORO (C20-C34)		----------NA----------				
7	h	TPH (c12-c40)		----------NA----------				
8	S	o-Terphenyl	1.946	1.932 E6	0.7	92	-0.01	8.54- 8.60
9	S	5a-Androstane	1.907	1.889 E6	0.9	90	-0.01	9.23- 9.29
10	S	Tetracosane-d50	1.626	1.691 E6	-4.0	96	0.00	10.52-10.58

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7z18435.D DRO7Z747.M Wed Jul 13 15:34:48 2016

10.6.3 10

Continuing Calibration Summary

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample: G7Z755-CC747
Lab FileID: 7Z18703.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\G7Z755\7z18703.D          Vial: 3
Acq On    : 13 Jul 2016  12:39 pm                   Operator: thomasl
Sample    : cc747-500                               Inst    : HP G1530A
Misc      : op95451,g7z755,10.0,,,1,1               Multiplr: 1.00
IntFile   : events.e

Method       : C:\msdchem\1\METHODS\DRO7Z747.M (Chemstation Integrator)
Title        :
Last Update  : Tue Jul 12 17:31:19 2016
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 : 150%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	H	TPH-DRO	1.633	1.454 E6	11.0	89	0.00	2.80-12.20
2	H	TPH-DRO (C10-C44)		----------NA----------				
3	H	TPH-ORO (>C28-C40)		----------NA----------				
4	H	TPH-HRO (C18-C36)		----------NA----------				
5	H	TPH-DRO (C10-C20)		----------NA----------				
6	H	TPH-ORO (C20-C34)		----------NA----------				
7	h	TPH (c12-c40)		----------NA----------				
8	S	o-Terphenyl	1.946	1.640 E6	15.7	84	-0.02	8.54- 8.60
9	S	5a-Androstane	1.907	1.703 E6	10.7	89	-0.02	9.22- 9.28
10	S	Tetracosane-d50	1.626	1.473 E6	9.4	88	-0.01	10.52-10.58

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7z18434.D DRO7Z747.M Wed Jul 13 15:35:16 2016

10.6.4 10

Continuing Calibration Summary

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample: G7Z755-CC747
Lab FileID: 7Z18714.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\G7Z755\7z18714.D          Vial: 4
Acq On    : 13 Jul 2016   7:49 pm                   Operator: thomasl
Sample    : cc747-1000                              Inst    : HP G1530A
Misc      : op95461,g7z755,300,,,1,1                Multiplr: 1.00
IntFile   : events.e

Method       : C:\msdchem\1\METHODS\DRO7Z747.M (Chemstation Integrator)
Title        :
Last Update  : Thu Jul 14 15:42:28 2016
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 : 150%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	H	TPH-DRO	1.633	1.601 E6	2.0	91	0.00	2.80-12.20
2	H	TPH-DRO (C10-C44)		----------NA----------				
3	H	TPH-ORO (>C28-C40)		----------NA----------				
4	H	TPH-HRO (C18-C36)		----------NA----------				
5	H	TPH-DRO (C10-C20)		----------NA----------				
6	H	TPH-ORO (C20-C34)		----------NA----------				
7	h	TPH (c12-c40)		----------NA----------				
8	S	o-Terphenyl	1.946	1.923 E6	1.2	92	0.00	8.54- 8.60
9	S	5a-Androstane	1.907	1.871 E6	1.9	90	0.00	9.23- 9.29
10	S	Tetracosane-d50	1.626	1.644 E6	-1.1	94	0.00	10.52-10.58

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7z18435.D DRO7Z747.M Fri Jul 15 10:36:52 2016

10.6.5 10

Continuing Calibration Summary

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample: G7Z755-CC747
Lab FileID: 7Z18725.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\G7Z755\7z18725.D          Vial: 3
Acq On    : 14 Jul 2016   1:58 am                   Operator: thomasl
Sample    : cc747-500                               Inst    : HP G1530A
Misc      : op95461,g7z755,300,,,1,1                Multiplr: 1.00
IntFile   : events.e

Method       : C:\msdchem\1\METHODS\DRO7Z747.M (Chemstation Integrator)
Title        :
Last Update  : Thu Jul 14 15:42:28 2016
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 : 150%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	H	TPH-DRO	1.633	1.462 E6	10.5	89	0.00	2.80-12.20
2	H	TPH-DRO (C10-C44)		----------NA----------				
3	H	TPH-ORO (>C28-C40)		----------NA----------				
4	H	TPH-HRO (C18-C36)		----------NA----------				
5	H	TPH-DRO (C10-C20)		----------NA----------				
6	H	TPH-ORO (C20-C34)		----------NA----------				
7	h	TPH (c12-c40)		----------NA----------				
8	S	o-Terphenyl	1.946	1.628 E6	16.3	83	0.00	8.54- 8.60
9	S	5a-Androstane	1.907	1.703 E6	10.7	89	0.00	9.22- 9.28
10	S	Tetracosane-d50	1.626	1.452 E6	10.7	87	0.00	10.52-10.58

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7z18434.D DRO7Z747.M Fri Jul 15 10:37:22 2016

10.6.6 10

Continuing Calibration Summary

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample: G7Z757-CC747
Lab FileID: 7Z18769.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\G7Z757\7z18769.D          Vial: 3
Acq On    : 15 Jul 2016   5:02 pm                   Operator: thomasl
Sample    : cc747-500                               Inst    : HP G1530A
Misc      : op95556,g7z757,300,,,1,1                Multiplr: 1.00
IntFile   : events.e

Method       : C:\msdchem\1\METHODS\DRO7Z747.M (Chemstation Integrator)
Title        :
Last Update  : Mon Jul 18 08:19:28 2016
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 : 150%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	H	TPH-DRO	1.633	1.393 E6	14.7	85	0.00	2.80-12.20
2	H	TPH-DRO (C10-C44)		----------NA----------				
3	H	TPH-ORO (>C28-C40)		----------NA----------				
4	H	TPH-HRO (C18-C36)		----------NA----------				
5	H	TPH-DRO (C10-C20)		----------NA----------				
6	H	TPH-ORO (C20-C34)		----------NA----------				
7	h	TPH (c12-c40)		----------NA----------				
8	S	o-Terphenyl	1.946	1.558 E6	19.9	80	0.00	8.53- 8.59
9	S	5a-Androstane	1.907	1.671 E6	12.4	87	0.00	9.22- 9.28
10	S	Tetracosane-d50	1.626	1.408 E6	13.4	84	0.00	10.52-10.58

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7z18434.D DRO7Z747.M Mon Jul 18 09:35:50 2016

10.6.7 10

Continuing Calibration Summary

Job Number: JC23588
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample: G7Z757-CC747
Lab FileID: 7Z18778.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\G7Z757\7z18778.D          Vial: 4
Acq On    : 15 Jul 2016  10:05 pm                   Operator: thomasl
Sample    : cc747-1000                              Inst    : HP G1530A
Misc      : op95571,g7z757,10.0,,,1,1               Multiplr: 1.00
IntFile   : events.e

Method       : C:\msdchem\1\METHODS\DRO7Z747.M (Chemstation Integrator)
Title        :
Last Update  : Mon Jul 18 08:19:28 2016
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 : 150%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	H	TPH-DRO	1.633	1.489 E6	8.8	84	0.00	2.80-12.20
2	H	TPH-DRO (C10-C44)		----------NA----------				
3	H	TPH-ORO (>C28-C40)		----------NA----------				
4	H	TPH-HRO (C18-C36)		----------NA----------				
5	H	TPH-DRO (C10-C20)		----------NA----------				
6	H	TPH-ORO (C20-C34)		----------NA----------				
7	h	TPH (c12-c40)		----------NA----------				
8	S	o-Terphenyl	1.946	1.787 E6	8.2	85	0.00	8.54- 8.60
9	S	5a-Androstane	1.907	1.783 E6	6.5	85	0.00	9.22- 9.28
10	S	Tetracosane-d50	1.626	1.542 E6	5.2	88	0.00	10.52-10.58

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7z18435.D DRO7Z747.M Mon Jul 18 09:36:23 2016

10.6.8
10

GC Semi-volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G7Z755\
Data File : 7z18708.D
Signal(s) : FID2B.CH
Acq On : 13 Jul 2016 4:27 pm
Operator : thomasl
Sample : jc23588-1
Misc : op95461,g7z755,300,,,1,1
ALS Vial : 63 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jul 15 10:46:39 2016
Quant Method : C:\msdchem\1\METHODS\DRO7Z747.M
Quant Title :
QLast Update : Thu Jul 14 15:42:28 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
8) S	o-Terphenyl	8.578	87040304	44.734	PPM
9) S	5a-Androstane	9.262	83340788	43.711	PPM
10) S	Tetracosane-d50	10.555	68953845	42.420	PPM
	Target Compounds				
1) H	TPH-DRO	7.500	427788260	261.916	PPM
2) H	TPH-DRO (C10-C44)	12.000	551271479	337.520	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

11.1.1

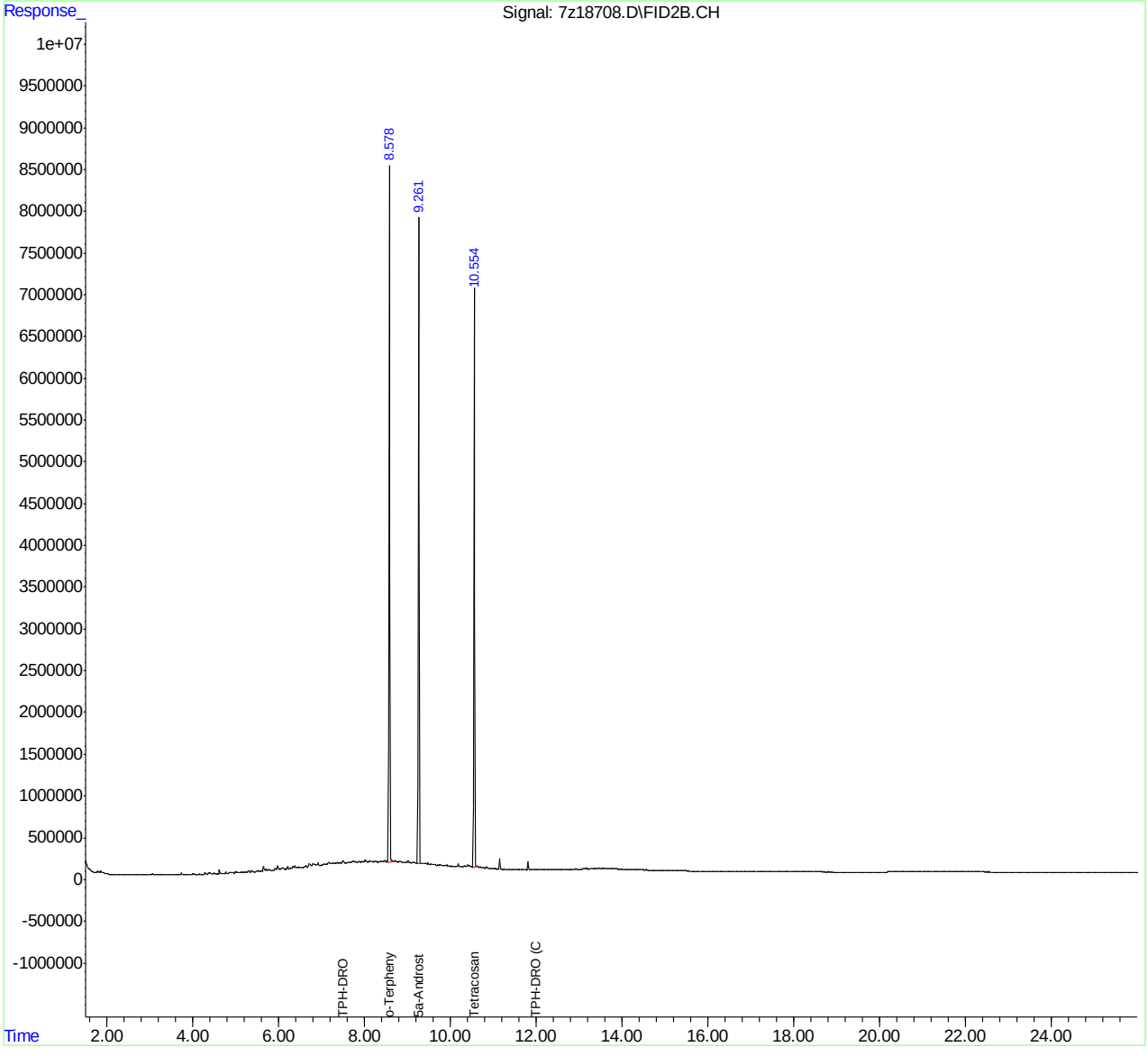
11

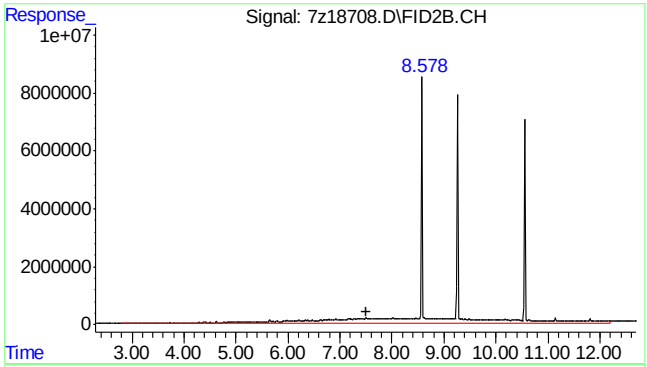
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G7Z755\
Data File : 7z18708.D
Signal(s) : FID2B.CH
Acq On : 13 Jul 2016 4:27 pm
Operator : thomasl
Sample : jc23588-1
Misc : op95461,g7z755,300,,,1,1
ALS Vial : 63 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jul 15 10:46:39 2016
Quant Method : C:\msdchem\1\METHODS\DRO7Z747.M
Quant Title :
QLast Update : Thu Jul 14 15:42:28 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

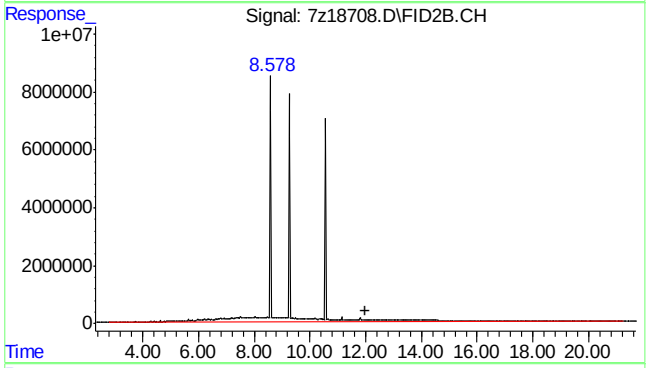
Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um





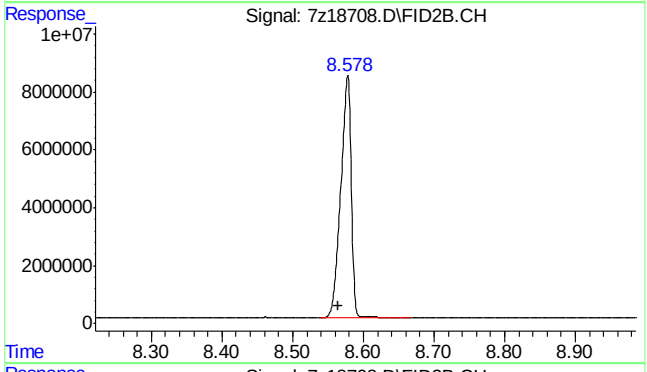
#1 TPH-DRO

R.T.: 7.500 min
Delta R.T.: 0.000 min
Response: 427788260
Conc: 261.92 PPM m



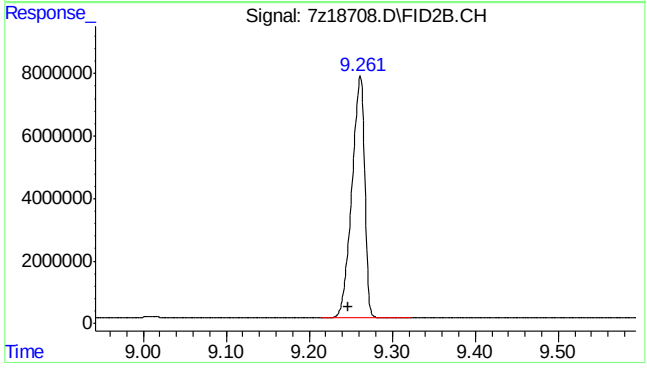
#2 TPH-DRO (C10-C44)

R.T.: 12.000 min
Delta R.T.: 0.000 min
Response: 551271479
Conc: 337.52 PPM m



#8 o-Terphenyl

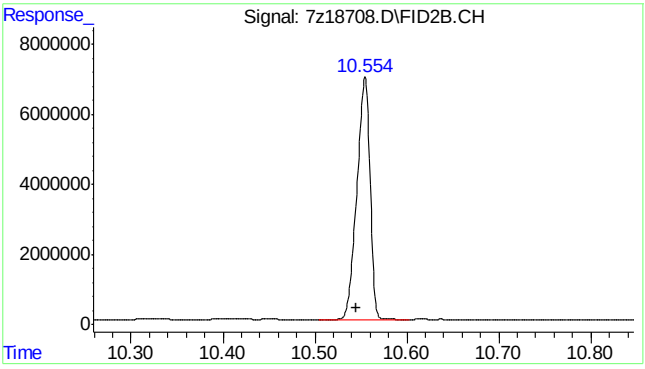
R.T.: 8.578 min
Delta R.T.: 0.013 min
Response: 87040304
Conc: 44.73 PPM



#9 5a-Androstane

R.T.: 9.262 min
Delta R.T.: 0.015 min
Response: 83340788
Conc: 43.71 PPM

SGS ACCUTEST JC23588



#10 Tetracosane-d50

R.T.:	10.555 min
Delta R.T.:	0.009 min
Response:	68953845
Conc:	42.42 PPM

11.1.1

11

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 07/18/16 12:49

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G7Z755\
Data File : 7z18711.D
Signal(s) : FID2B.CH
Acq On : 13 Jul 2016 6:08 pm
Operator : thomasl
Sample : jc23588-2
Misc : op95461,g7z755,300,,,1,1
ALS Vial : 66 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jul 15 11:04:20 2016
Quant Method : C:\msdchem\1\METHODS\DRO7Z747.M
Quant Title :
QLast Update : Thu Jul 14 15:42:28 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
8) S	o-Terphenyl	8.580f	100801774	51.807	PPM	m
9) S	5a-Androstane	9.262f	88760847	46.553	PPM	
10) S	Tetracosane-d50	10.554	74807790	46.021	PPM	
	Target Compounds					
1) H	TPH-DRO	7.500	537988901	329.387	PPM	
2) H	TPH-DRO (C10-C44)	12.000	618111942	378.443	PPM	

(f)=RT Delta > 1/2 Window (m)=manual int.

11.1.2 11

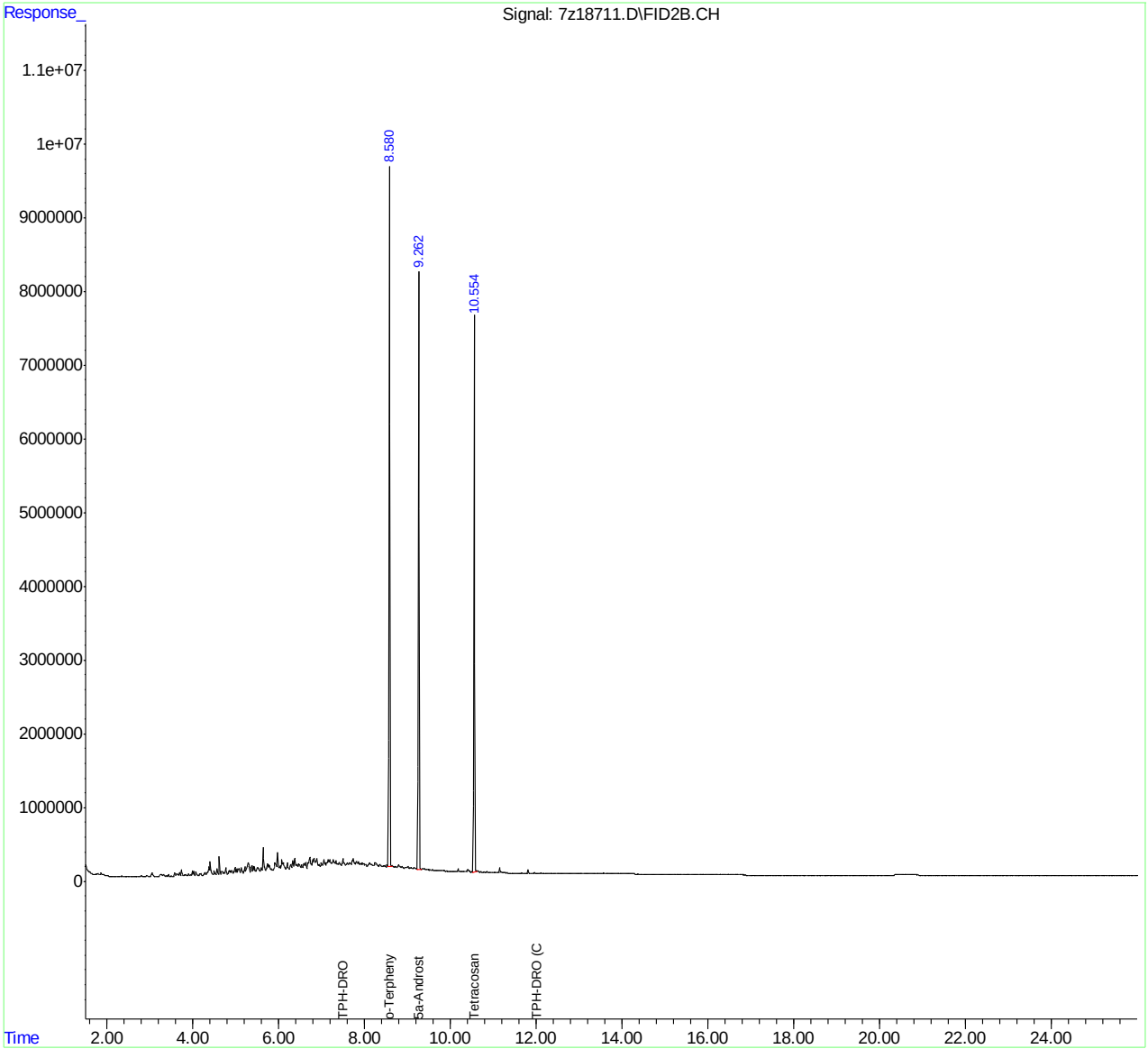
SGS ACCUTEST JC23588

Quantitation Report (QT Reviewed)

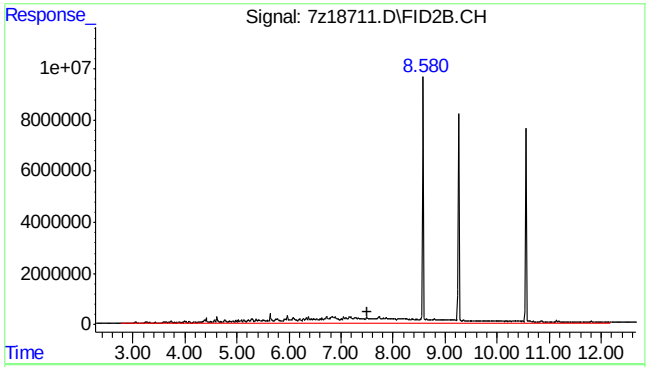
Data Path : C:\msdchem\1\DATA\G7Z755\
Data File : 7z18711.D
Signal(s) : FID2B.CH
Acq On : 13 Jul 2016 6:08 pm
Operator : thomasl
Sample : jc23588-2
Misc : op95461,g7z755,300,,,1,1
ALS Vial : 66 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jul 15 11:04:20 2016
Quant Method : C:\msdchem\1\METHODS\DRO7Z747.M
Quant Title :
QLast Update : Thu Jul 14 15:42:28 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

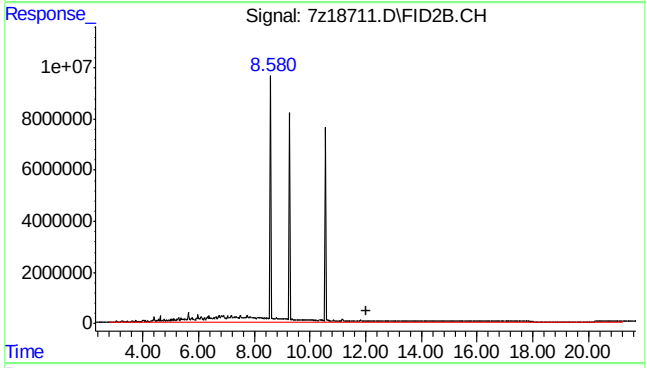


SGS ACCUTEST JC23588



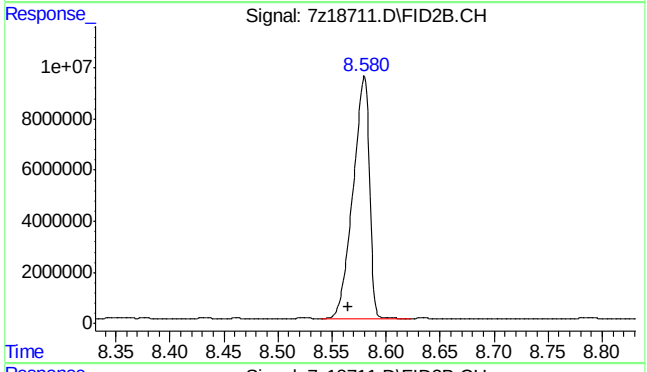
#1 TPH-DRO

R.T.: 7.500 min
Delta R.T.: 0.000 min
Response: 537988901
Conc: 329.39 PPM m



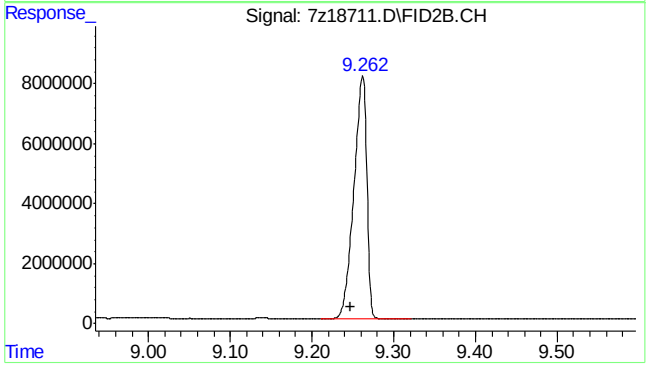
#2 TPH-DRO (C10-C44)

R.T.: 12.000 min
Delta R.T.: 0.000 min
Response: 618111942
Conc: 378.44 PPM m



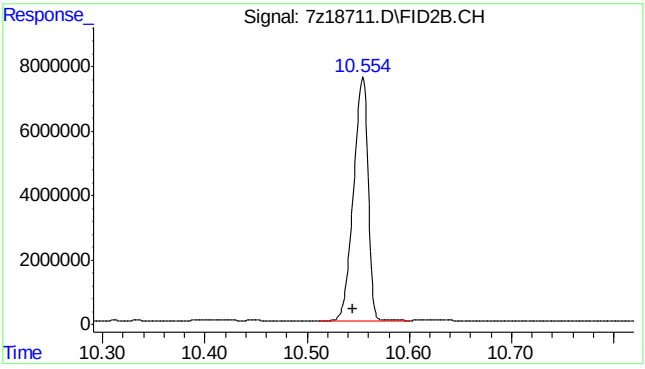
#8 o-Terphenyl

R.T.: 8.580 min
Delta R.T.: 0.015 min
Response: 100801774
Conc: 51.81 PPM m



#9 5a-Androstane

R.T.: 9.262 min
Delta R.T.: 0.015 min
Response: 88760847
Conc: 46.55 PPM



#10 Tetracosane-d50

R.T.: 10.554 min
Delta R.T.: 0.009 min
Response: 74807790
Conc: 46.02 PPM

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 07/18/16 12:49

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G7Z755\
Data File : 7z18712.D
Signal(s) : FID2B.CH
Acq On : 13 Jul 2016 6:41 pm
Operator : thomasl
Sample : jc23588-3
Misc : op95461,g7z755,300,,,1,1
ALS Vial : 67 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jul 18 09:44:59 2016
Quant Method : C:\msdchem\1\METHODS\DRO7Z747.M
Quant Title :
QLast Update : Mon Jul 18 08:19:28 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
8) S	o-Terphenyl	8.578	78290953	40.238	PPM	m
9) S	5a-Androstane	9.262	74943607	39.306	PPM	m
10) S	Tetracosane-d50	10.556	61581800	37.884	PPM	m
	Target Compounds					
1) H	TPH-DRO	7.500	1882608202	1152.640	PPM	
2) H	TPH-DRO (C10-C44)	12.000	2875177905	1760.347	PPM	

(f)=RT Delta > 1/2 Window (m)=manual int.

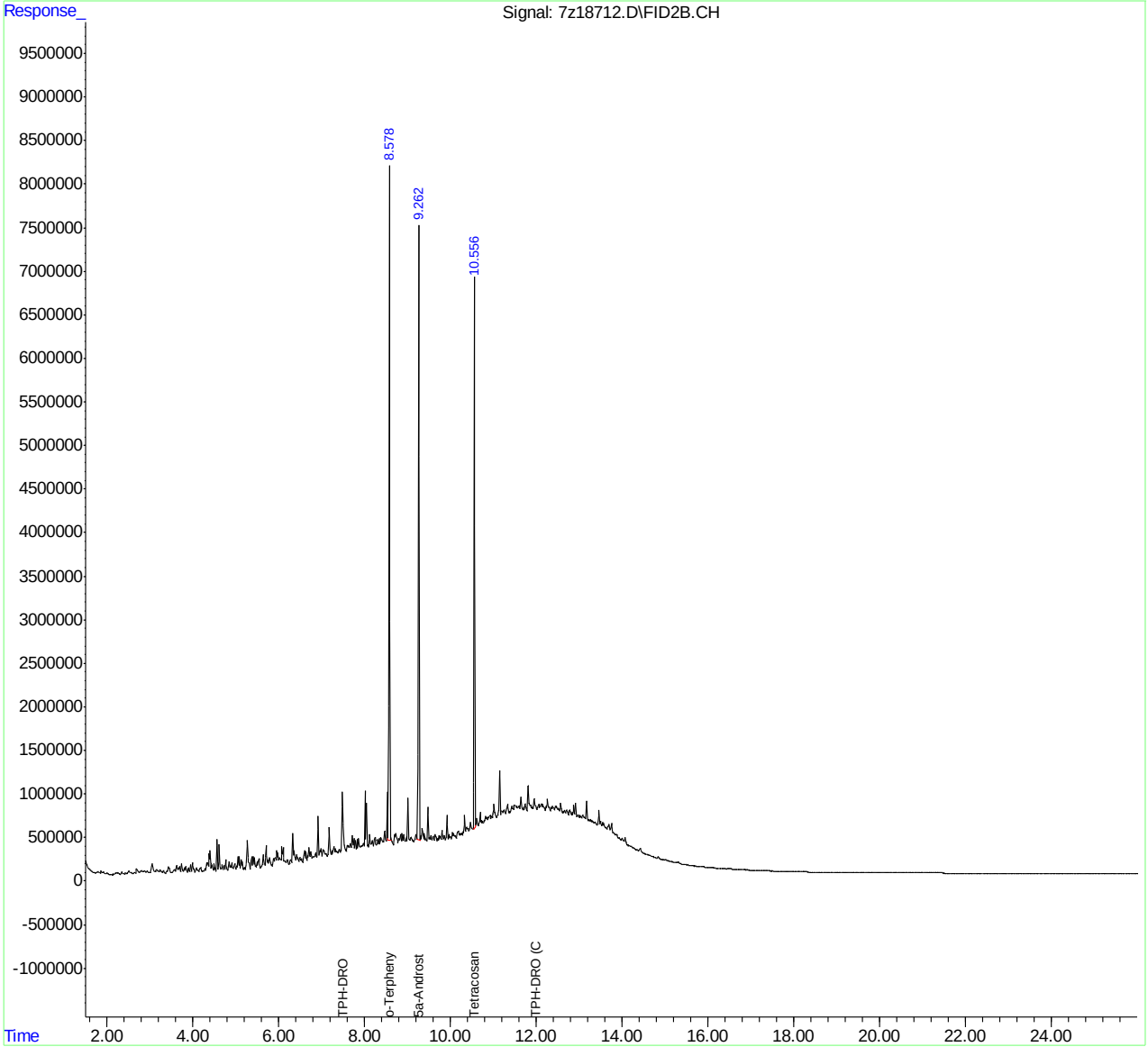
11.1.3 11

Quantitation Report (QT Reviewed)

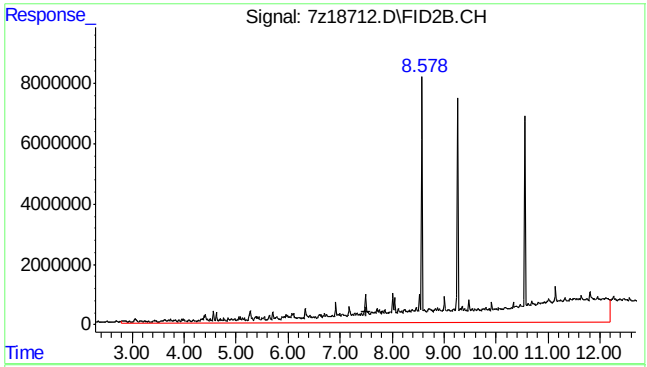
Data Path : C:\msdchem\1\DATA\G7Z755\
Data File : 7z18712.D
Signal(s) : FID2B.CH
Acq On : 13 Jul 2016 6:41 pm
Operator : thomasl
Sample : jc23588-3
Misc : op95461,g7z755,300,,,1,1
ALS Vial : 67 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jul 18 09:44:59 2016
Quant Method : C:\msdchem\1\METHODS\DRO7Z747.M
Quant Title :
QLast Update : Mon Jul 18 08:19:28 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

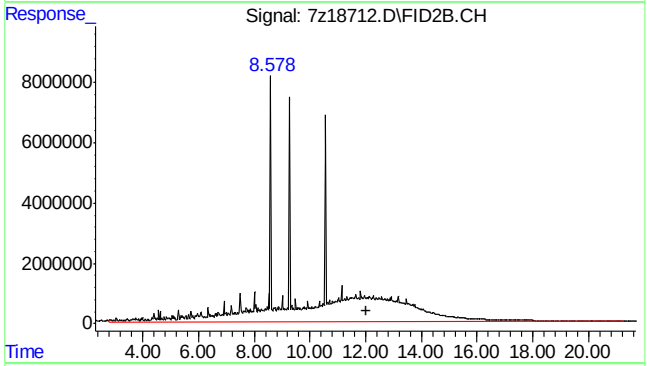


DRO7Z747.M Mon Jul 18 09:45:06 2016 Page: 2



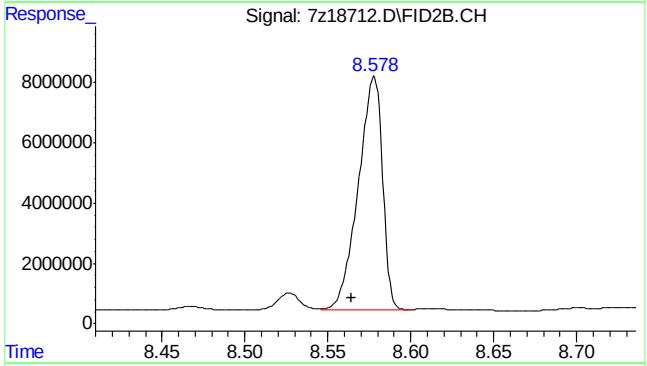
#1 TPH-DRO

R.T.: 7.500 min
Delta R.T.: 0.000 min
Response: 1882608202
Conc: 1152.64 PPM m



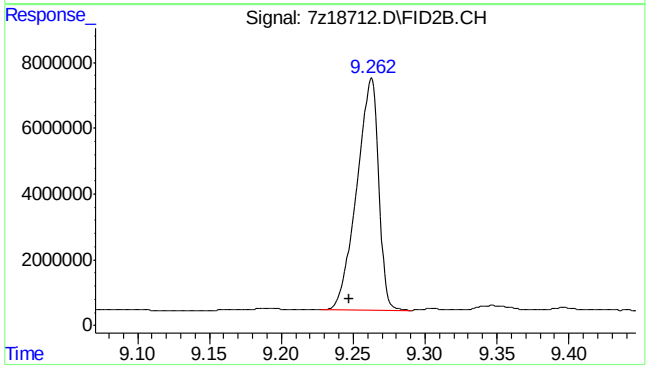
#2 TPH-DRO (C10-C44)

R.T.: 12.000 min
Delta R.T.: 0.000 min
Response: 2875177905
Conc: 1760.35 PPM m



#8 o-Terphenyl

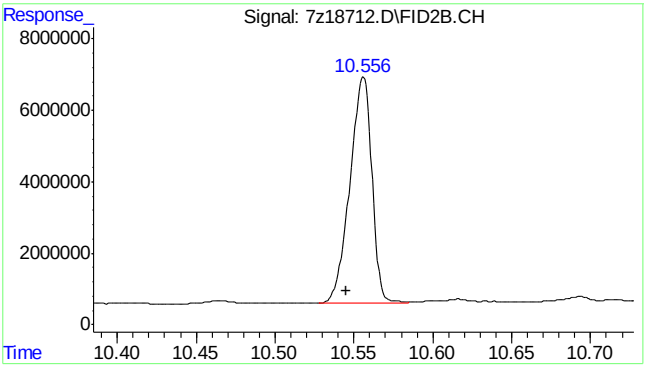
R.T.: 8.578 min
Delta R.T.: 0.013 min
Response: 78290953
Conc: 40.24 PPM m



#9 5a-Androstane

R.T.: 9.262 min
Delta R.T.: 0.015 min
Response: 74943607
Conc: 39.31 PPM m

SGS ACCUTEST JC23588



#10 Tetracosane-d50

R.T.: 10.556 min
Delta R.T.: 0.010 min
Response: 61581800
Conc: 37.88 PPM m

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 07/18/16 12:49

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G7Z755\
Data File : 7z18713.D
Signal(s) : FID2B.CH
Acq On : 13 Jul 2016 7:15 pm
Operator : thomasl
Sample : jc23588-4
Misc : op95461,g7z755,300,,,1,1
ALS Vial : 68 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jul 15 11:07:59 2016
Quant Method : C:\msdchem\1\METHODS\DRO7Z747.M
Quant Title :
QLast Update : Thu Jul 14 15:42:28 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
8) S	o-Terphenyl	8.577	77262301	39.709	PPM	m
9) S	5a-Androstane	9.257	56807469	29.794	PPM	m
10) S	Tetracosane-d50	10.552	48165025	29.631	PPM	
	Target Compounds					
1) H	TPH-DRO	7.500	420795436	257.635	PPM	
2) H	TPH-DRO (C10-C44)	12.000	521659999	319.390	PPM	

(f)=RT Delta > 1/2 Window (m)=manual int.

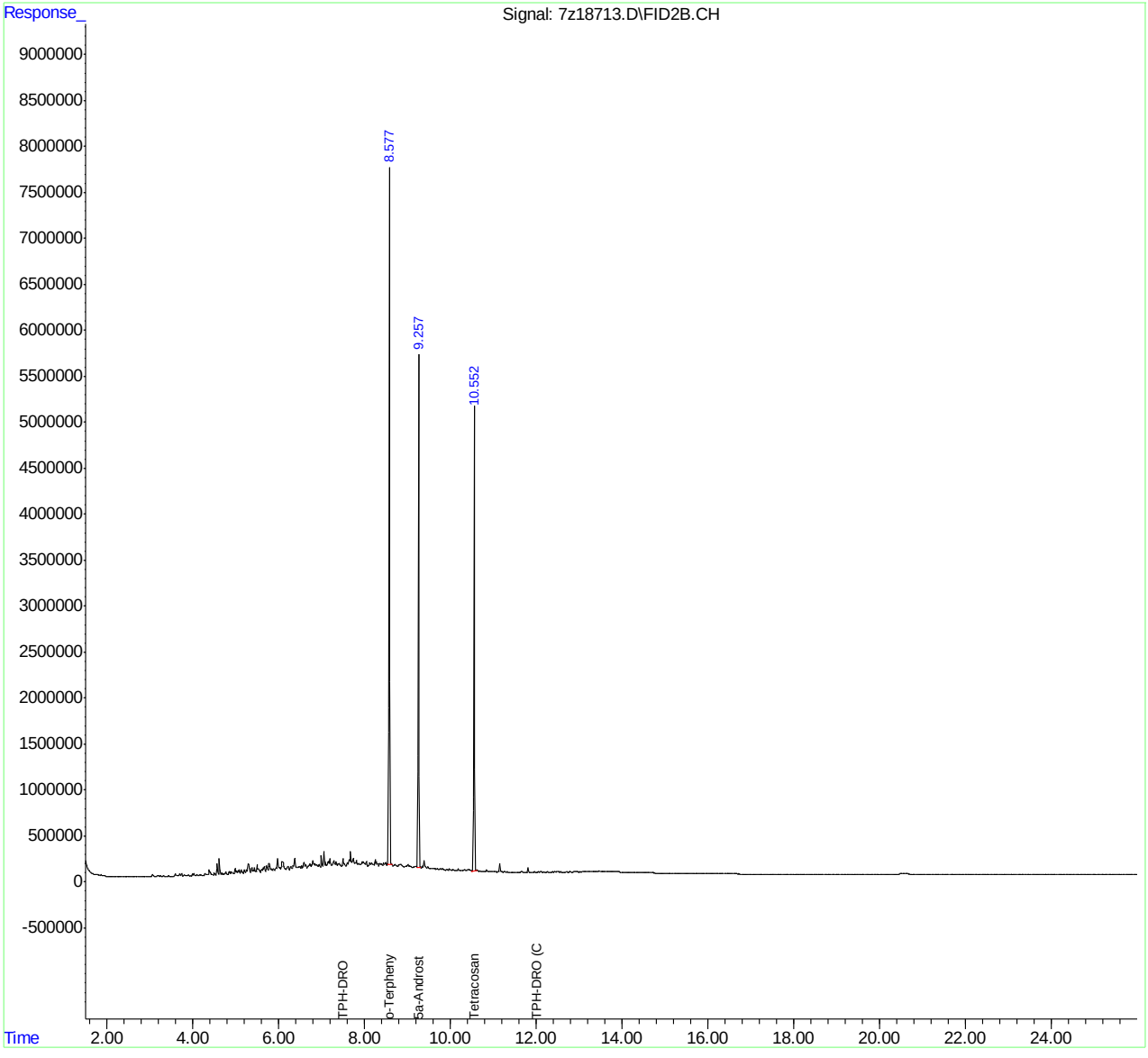
11.1.4 11

Quantitation Report (QT Reviewed)

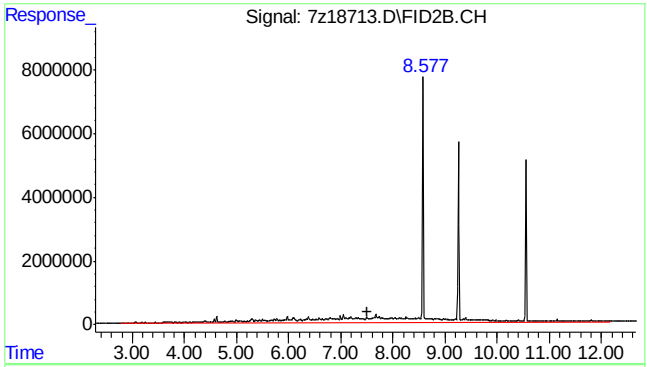
Data Path : C:\msdchem\1\DATA\G7Z755\
Data File : 7z18713.D
Signal(s) : FID2B.CH
Acq On : 13 Jul 2016 7:15 pm
Operator : thomasl
Sample : jc23588-4
Misc : op95461,g7z755,300,,,1,1
ALS Vial : 68 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jul 15 11:07:59 2016
Quant Method : C:\msdchem\1\METHODS\DRO7Z747.M
Quant Title :
QLast Update : Thu Jul 14 15:42:28 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

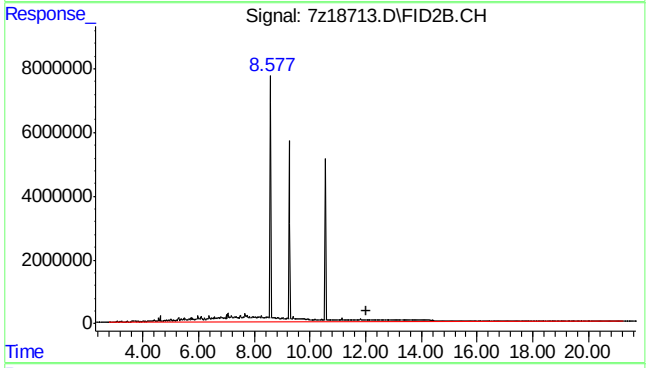


SGS ACCUTEST JC23588



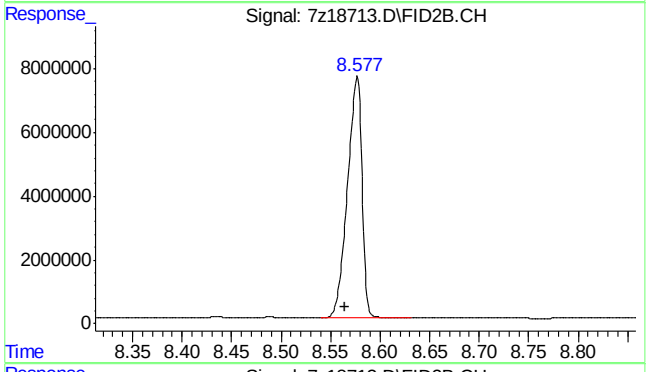
#1 TPH-DRO

R.T.: 7.500 min
Delta R.T.: 0.000 min
Response: 420795436
Conc: 257.63 PPM m



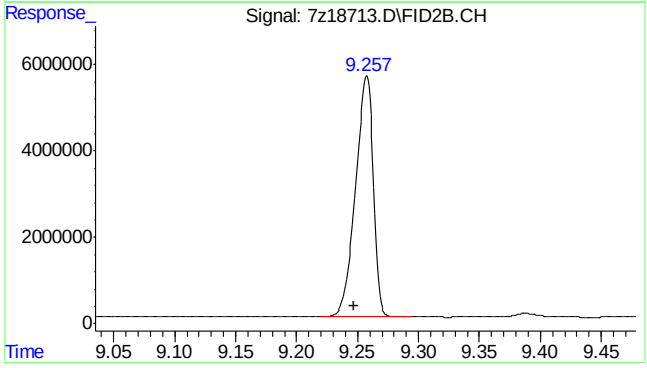
#2 TPH-DRO (C10-C44)

R.T.: 12.000 min
Delta R.T.: 0.000 min
Response: 521659999
Conc: 319.39 PPM m



#8 o-Terphenyl

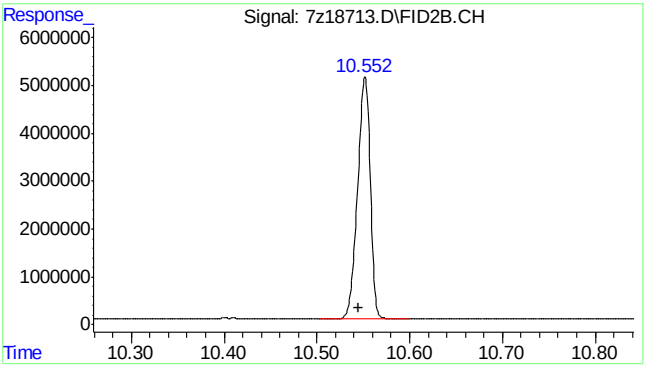
R.T.: 8.577 min
Delta R.T.: 0.012 min
Response: 77262301
Conc: 39.71 PPM m



#9 5a-Androstane

R.T.: 9.257 min
Delta R.T.: 0.010 min
Response: 56807469
Conc: 29.79 PPM m

SGS ACCUTEST JC23588



#10 Tetracosane-d50

R.T.:	10.552 min
Delta R.T.:	0.007 min
Response:	48165025
Conc:	29.63 PPM

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G7Z755\
Data File : 7z18716.D
Signal(s) : FID2B.CH
Acq On : 13 Jul 2016 8:56 pm
Operator : thomasl
Sample : jc23588-5
Misc : op95461,g7z755,300,,,1,1
ALS Vial : 70 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jul 15 11:34:47 2016
Quant Method : C:\msdchem\1\METHODS\DRO7Z747.M
Quant Title :
QLast Update : Thu Jul 14 15:42:28 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
8) S	o-Terphenyl	8.577	81918179	42.102	PPM
9) S	5a-Androstane	9.261	81580704	42.787	PPM
10) S	Tetracosane-d50	10.554	66428308	40.866	PPM
	Target Compounds				
1) H	TPH-DRO	7.500	182915945	111.992	PPM
2) H	TPH-DRO (C10-C44)	12.000	263527774	161.347	PPM

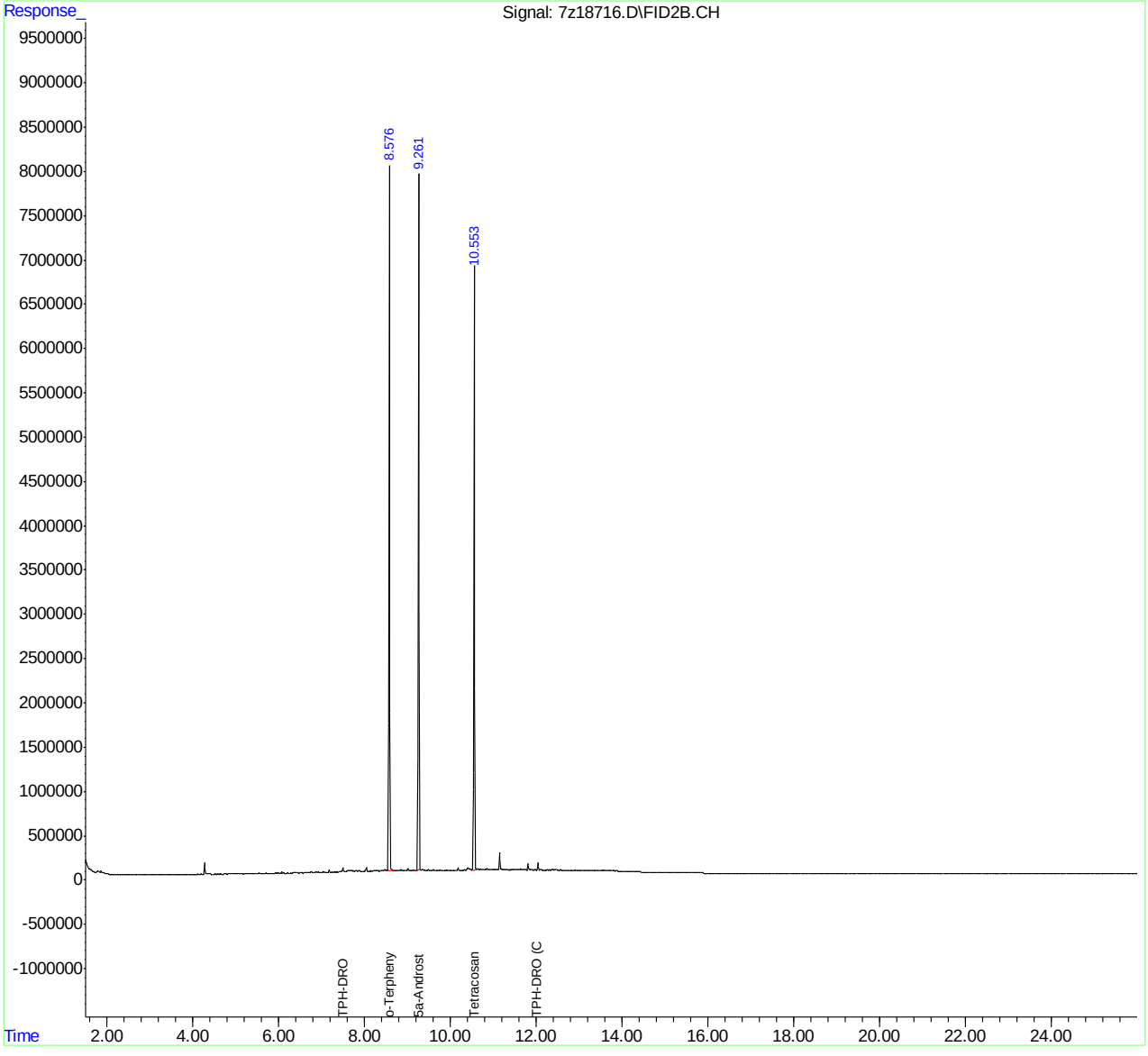
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

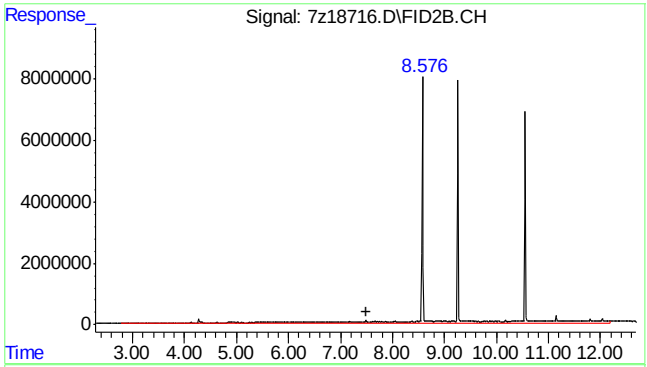
Data Path : C:\msdchem\1\DATA\G7Z755\
Data File : 7z18716.D
Signal(s) : FID2B.CH
Acq On : 13 Jul 2016 8:56 pm
Operator : thomasl
Sample : jc23588-5
Misc : op95461,g7z755,300,,,1,1
ALS Vial : 70 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jul 15 11:34:47 2016
Quant Method : C:\msdchem\1\METHODS\DRO7Z747.M
Quant Title :
QLast Update : Thu Jul 14 15:42:28 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

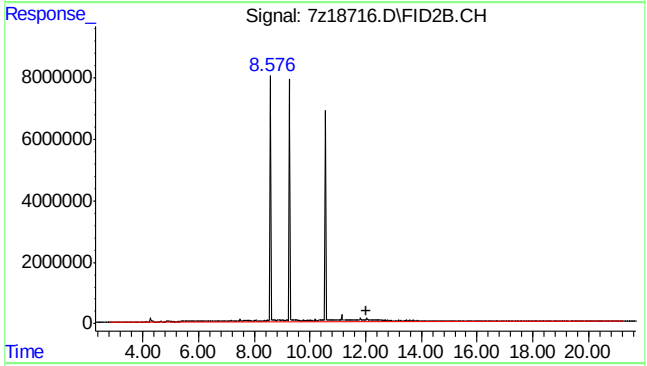


DRO7Z747.M Fri Jul 15 14:50:58 2016 Page: 2



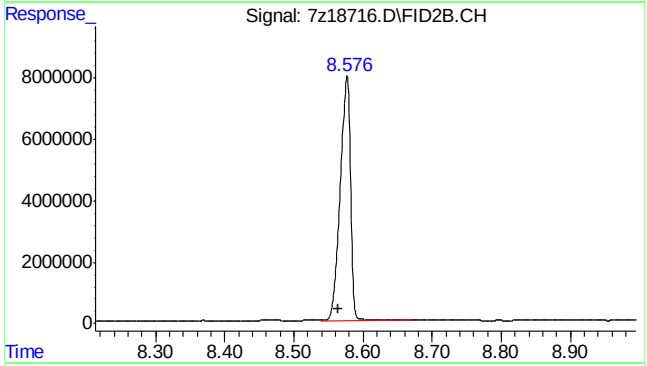
#1 TPH-DRO

R.T.: 7.500 min
Delta R.T.: 0.000 min
Response: 182915945
Conc: 111.99 PPM m



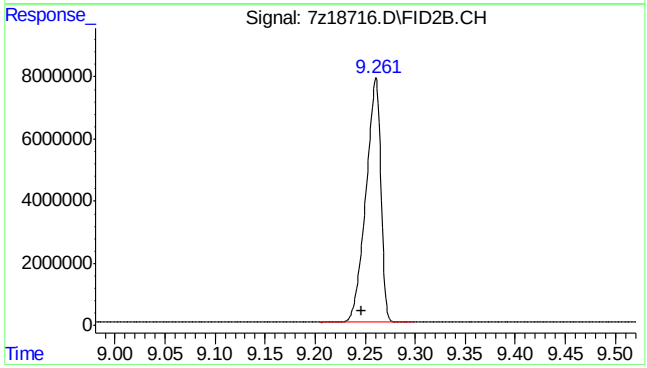
#2 TPH-DRO (C10-C44)

R.T.: 12.000 min
Delta R.T.: 0.000 min
Response: 263527774
Conc: 161.35 PPM m



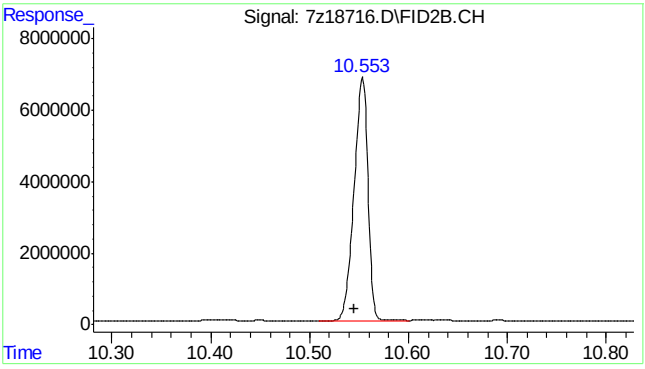
#8 o-Terphenyl

R.T.: 8.577 min
Delta R.T.: 0.012 min
Response: 81918179
Conc: 42.10 PPM



#9 5a-Androstane

R.T.: 9.261 min
Delta R.T.: 0.014 min
Response: 81580704
Conc: 42.79 PPM



#10 Tetracosane-d50

R.T.:	10.554 min
Delta R.T.:	0.008 min
Response:	66428308
Conc:	40.87 PPM

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
07/18/16 12:49

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G7Z755\
Data File : 7z18717.D
Signal(s) : FID2B.CH
Acq On : 13 Jul 2016 9:29 pm
Operator : thomasl
Sample : jc23588-6
Misc : op95461,g7z755,300,,,1,1
ALS Vial : 71 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jul 15 14:52:30 2016
Quant Method : C:\msdchem\1\METHODS\DRO7Z747.M
Quant Title :
QLast Update : Thu Jul 14 15:42:28 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
8) S	o-Terphenyl	8.586f	100152587	51.473	PPM	m
9) S	5a-Androstane	9.267f	94775788	49.708	PPM	m
10) S	Tetracosane-d50	10.556	77739681	47.825	PPM	m
	Target Compounds					
1) H	TPH-DRO	7.500	3328858437	2038.116	PPM	
2) H	TPH-DRO (C10-C44)	12.000	3734743111	2286.622	PPM	

(f)=RT Delta > 1/2 Window (m)=manual int.

11.1.6 11

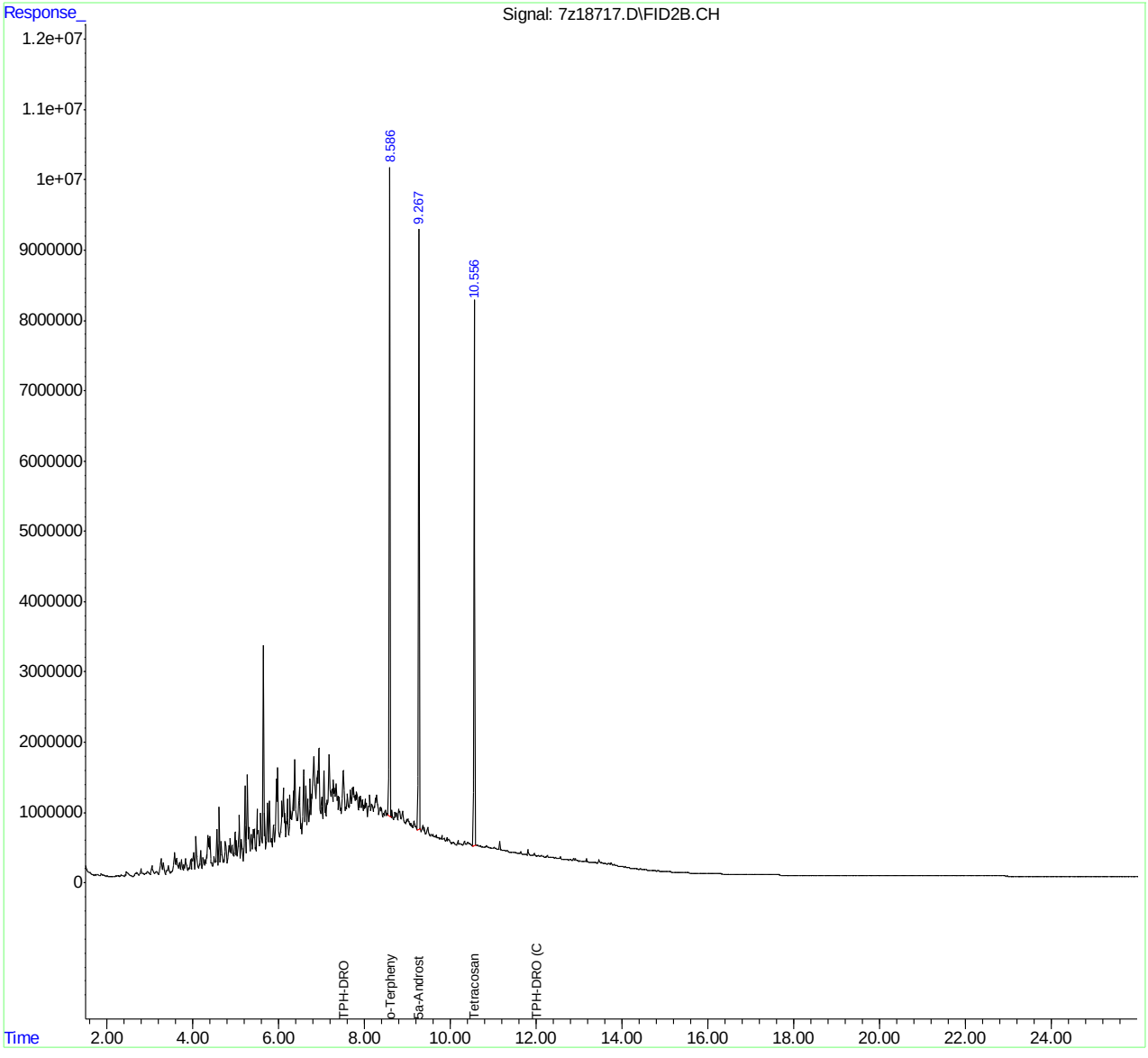
SGS ACCUTEST JC23588

Quantitation Report (QT Reviewed)

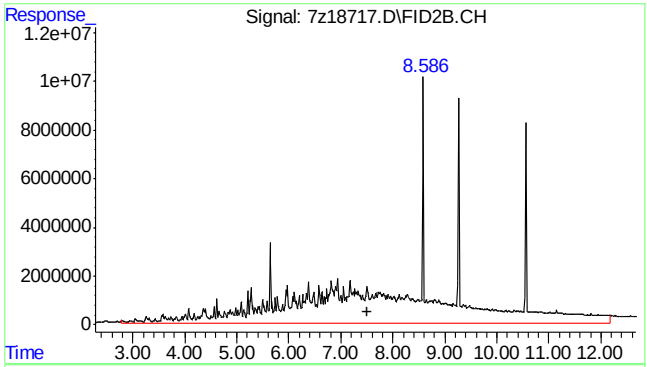
Data Path : C:\msdchem\1\DATA\G7Z755\
Data File : 7z18717.D
Signal(s) : FID2B.CH
Acq On : 13 Jul 2016 9:29 pm
Operator : thomasl
Sample : jc23588-6
Misc : op95461,g7z755,300,,,1,1
ALS Vial : 71 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jul 15 14:52:30 2016
Quant Method : C:\msdchem\1\METHODS\DRO7Z747.M
Quant Title :
QLast Update : Thu Jul 14 15:42:28 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

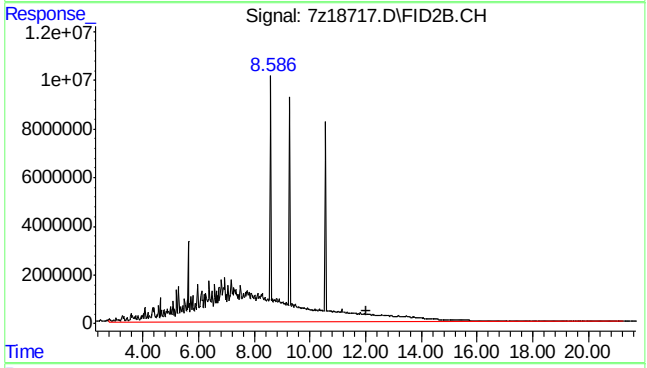


DRO7Z747.M Fri Jul 15 14:52:53 2016 Page: 2



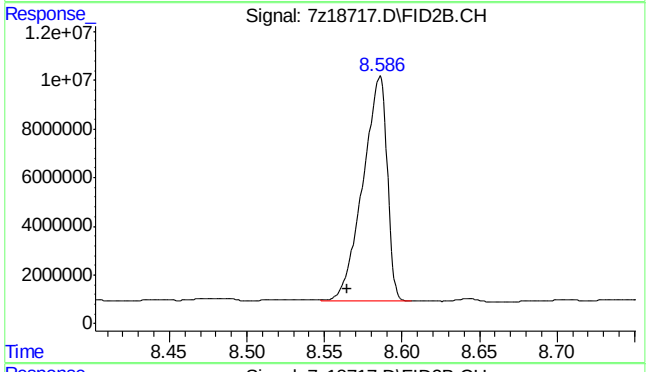
#1 TPH-DRO

R.T.: 7.500 min
Delta R.T.: 0.000 min
Response: 3328858437
Conc: 2038.12 PPM m



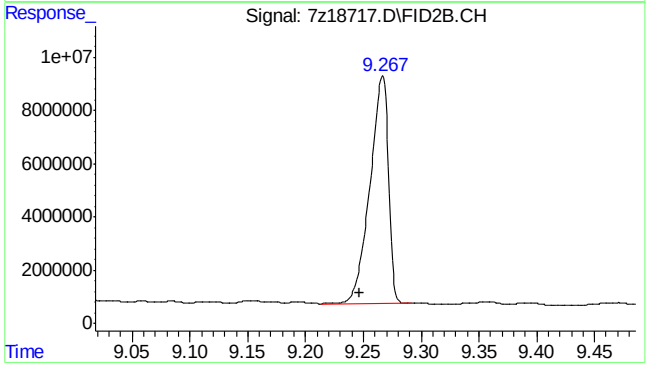
#2 TPH-DRO (C10-C44)

R.T.: 12.000 min
Delta R.T.: 0.000 min
Response: 3734743111
Conc: 2286.62 PPM m



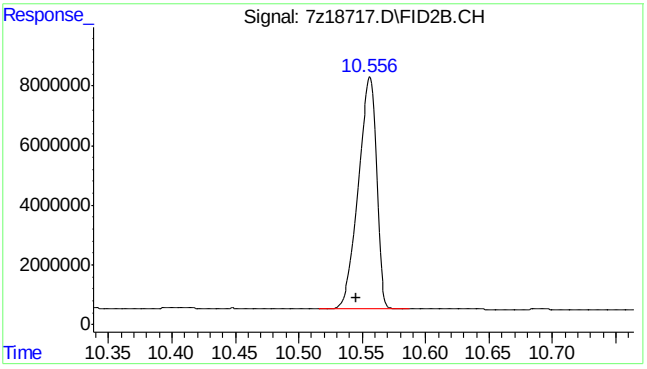
#8 o-Terphenyl

R.T.: 8.586 min
Delta R.T.: 0.021 min
Response: 100152587
Conc: 51.47 PPM m



#9 5a-Androstane

R.T.: 9.267 min
Delta R.T.: 0.020 min
Response: 94775788
Conc: 49.71 PPM m



#10 Tetracosane-d50

R.T.:	10.556 min
Delta R.T.:	0.011 min
Response:	77739681
Conc:	47.82 PPM m

11.1.6

11

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 07/18/16 12:49

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G7Z755\
Data File : 7z18718.D
Signal(s) : FID2B.CH
Acq On : 13 Jul 2016 10:03 pm
Operator : thomasl
Sample : jc23588-7
Misc : op95461,g7z755,300,,,1,1
ALS Vial : 72 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jul 15 14:54:05 2016
Quant Method : C:\msdchem\1\METHODS\DRO7Z747.M
Quant Title :
QLast Update : Thu Jul 14 15:42:28 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
8) S	o-Terphenyl	8.581f	83478804	42.904	PPM	m
9) S	5a-Androstane	9.263f	73719830	38.665	PPM	m
10) S	Tetracosane-d50	10.554	61464475	37.812	PPM	
Target Compounds						
1) H	TPH-DRO	7.500	1841744306	1127.621	PPM	
2) H	TPH-DRO (C10-C44)	12.000	2064344152	1263.909	PPM	

(f)=RT Delta > 1/2 Window (m)=manual int.

11.1.7 11

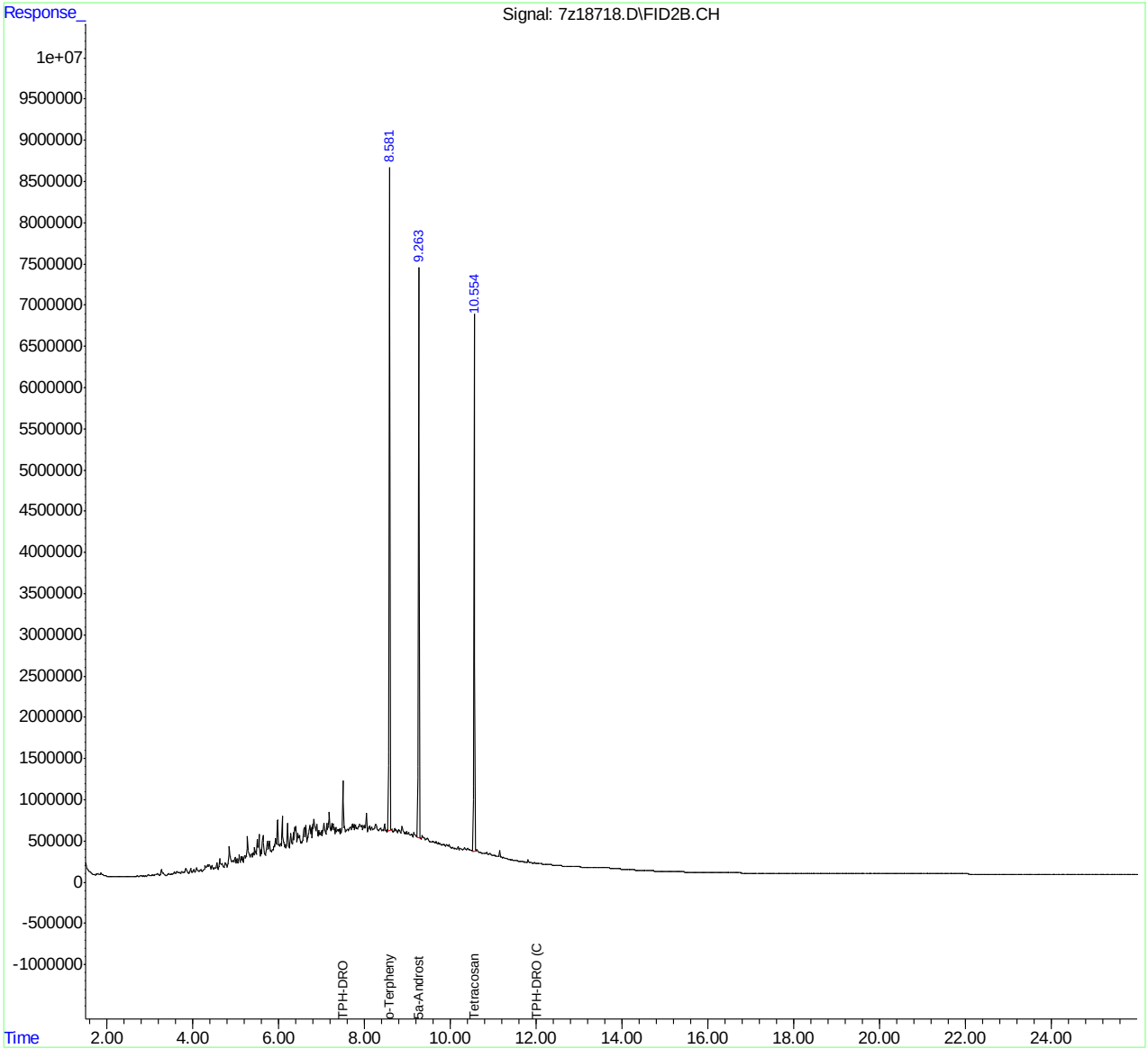
SGS ACCUTEST JC23588

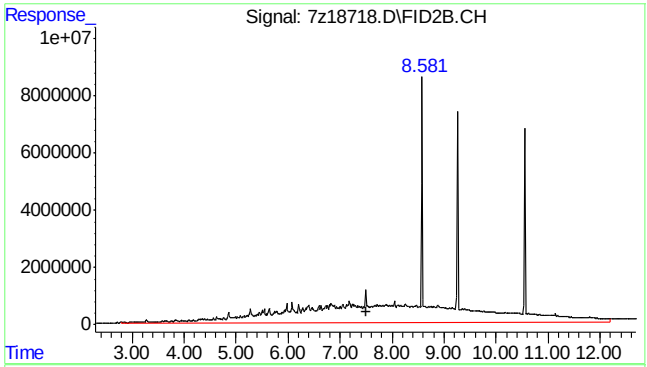
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G7Z755\
Data File : 7z18718.D
Signal(s) : FID2B.CH
Acq On : 13 Jul 2016 10:03 pm
Operator : thomasl
Sample : jc23588-7
Misc : op95461,g7z755,300,,,1,1
ALS Vial : 72 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jul 15 14:54:05 2016
Quant Method : C:\msdchem\1\METHODS\DRO7Z747.M
Quant Title :
QLast Update : Thu Jul 14 15:42:28 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

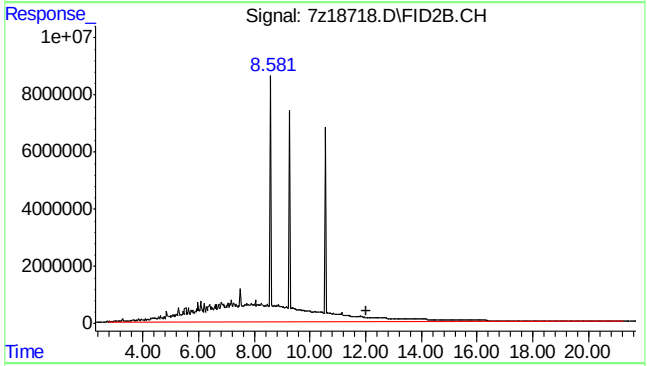
Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um





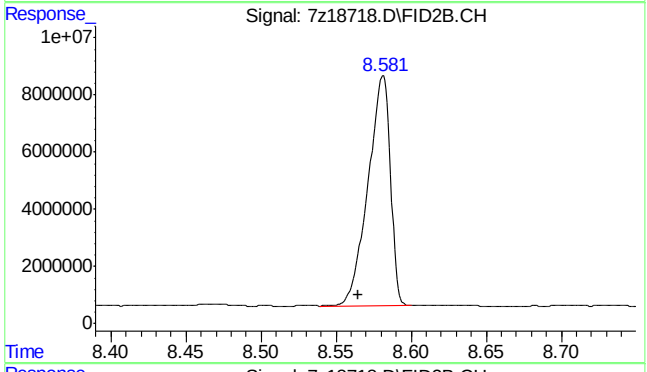
#1 TPH-DRO

R.T.: 7.500 min
Delta R.T.: 0.000 min
Response: 1841744306
Conc: 1127.62 PPM m



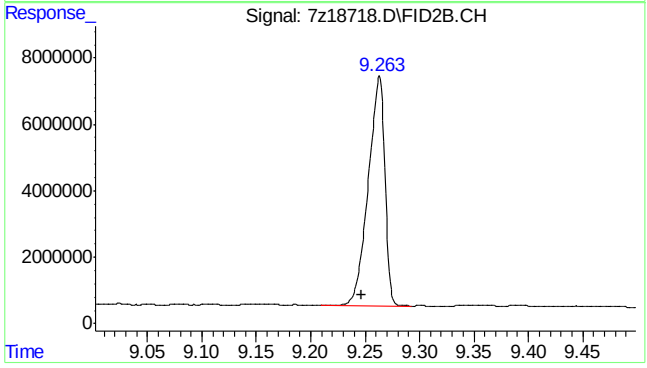
#2 TPH-DRO (C10-C44)

R.T.: 12.000 min
Delta R.T.: 0.000 min
Response: 2064344152
Conc: 1263.91 PPM m



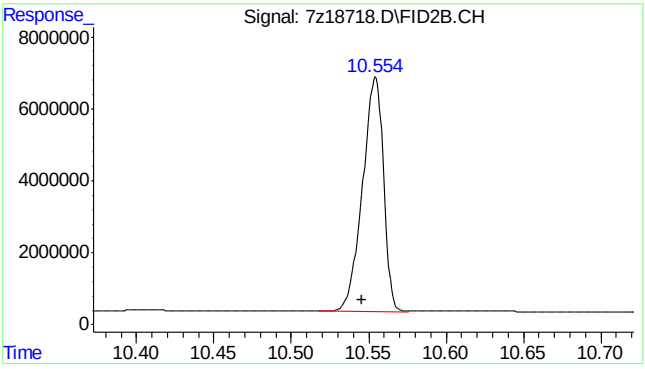
#8 o-Terphenyl

R.T.: 8.581 min
Delta R.T.: 0.016 min
Response: 83478804
Conc: 42.90 PPM m



#9 5a-Androstane

R.T.: 9.263 min
Delta R.T.: 0.016 min
Response: 73719830
Conc: 38.66 PPM m



#10 Tetracosane-d50

R.T.:	10.554 min
Delta R.T.:	0.009 min
Response:	61464475
Conc:	37.81 PPM

11.1.7

11

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 07/18/16 12:49

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G7Z755\
Data File : 7z18719.D
Signal(s) : FID2B.CH
Acq On : 13 Jul 2016 10:37 pm
Operator : thomasl
Sample : jc23588-8
Misc : op95461,g7z755,300,,,1,1
ALS Vial : 73 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jul 15 14:56:18 2016
Quant Method : C:\msdchem\1\METHODS\DRO7Z747.M
Quant Title :
QLast Update : Thu Jul 14 15:42:28 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
8) S	o-Terphenyl	8.583f	93598769	48.105	PPM	m
9) S	5a-Androstane	9.266f	85823855	45.013	PPM	m
10) S	Tetracosane-d50	10.554	69612440	42.825	PPM	m
	Target Compounds					
1) H	TPH-DRO	7.500	4072696682	2493.537	PPM	
2) H	TPH-DRO (C10-C44)	12.000	4295990088	2630.249	PPM	

(f)=RT Delta > 1/2 Window (m)=manual int.

11.1.8 11

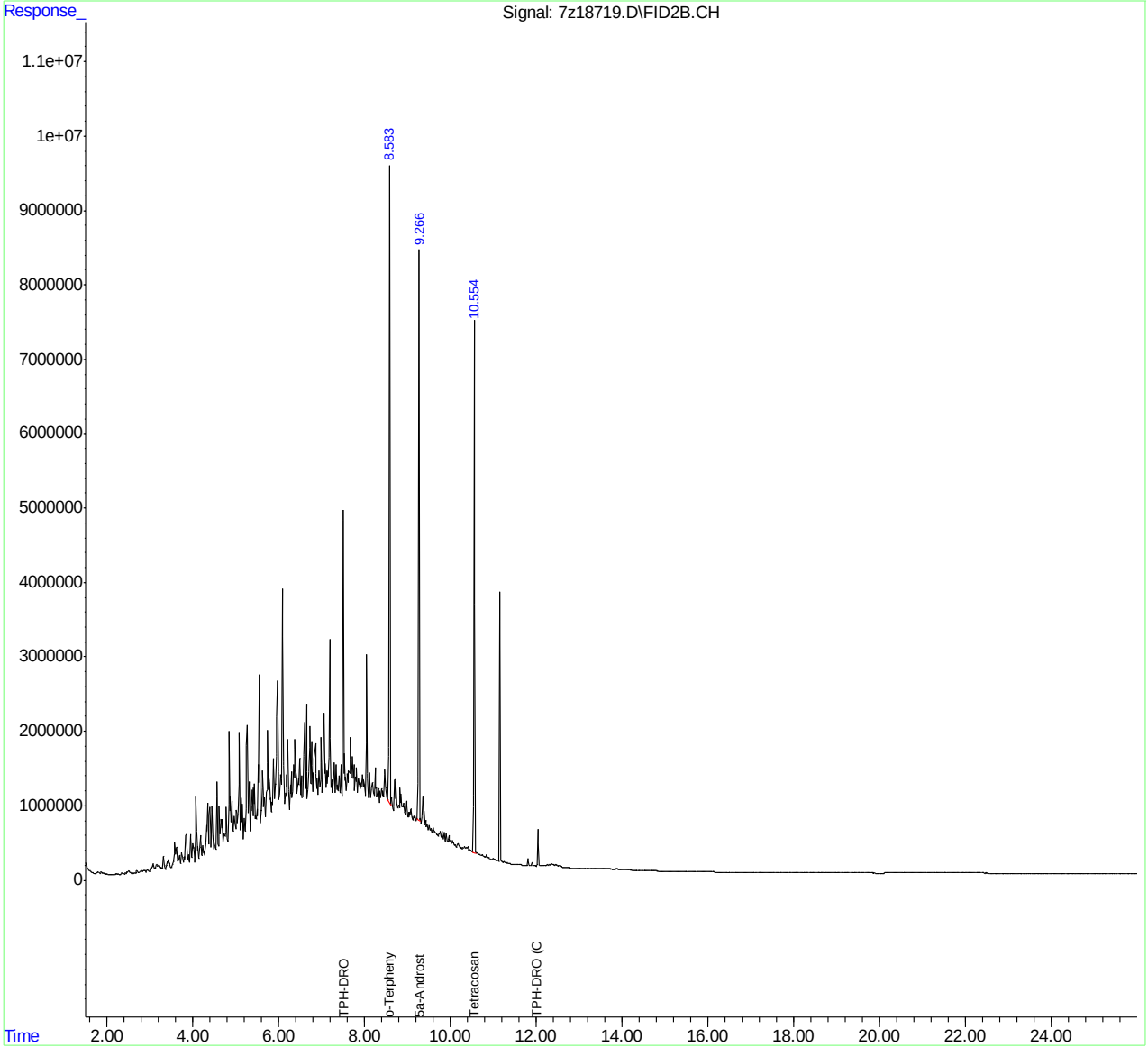
SGS ACCUTEST JC23588

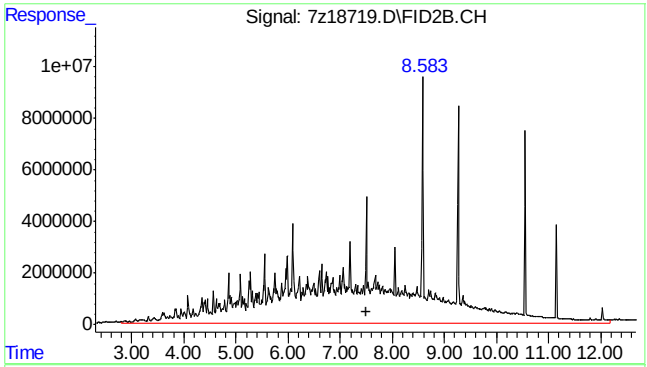
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G7Z755\
Data File : 7z18719.D
Signal(s) : FID2B.CH
Acq On : 13 Jul 2016 10:37 pm
Operator : thomasl
Sample : jc23588-8
Misc : op95461,g7z755,300,,,1,1
ALS Vial : 73 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jul 15 14:56:18 2016
Quant Method : C:\msdchem\1\METHODS\DRO7Z747.M
Quant Title :
QLast Update : Thu Jul 14 15:42:28 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

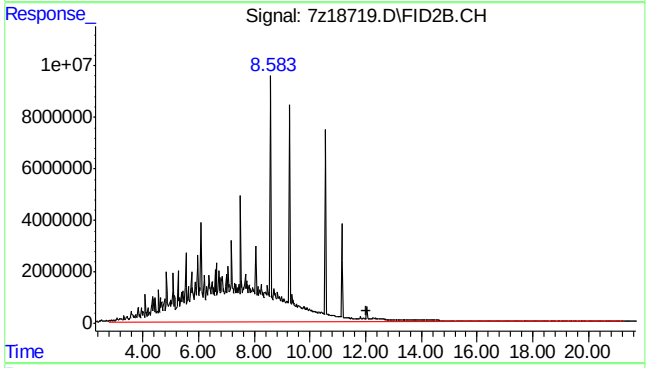
Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um





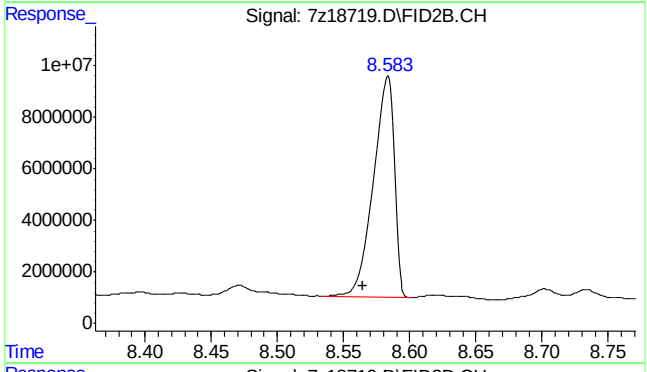
#1 TPH-DRO

R.T.: 7.500 min
Delta R.T.: 0.000 min
Response: 4072696682
Conc: 2493.54 PPM m



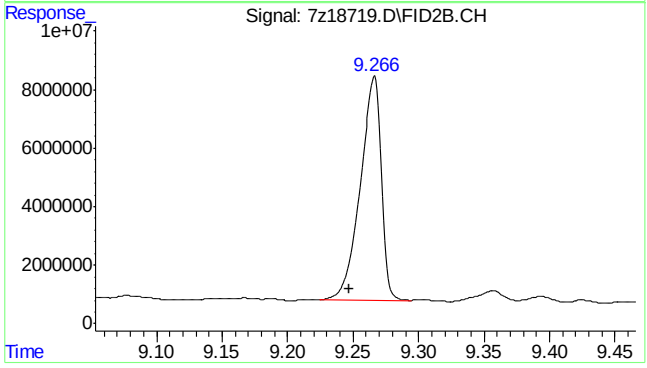
#2 TPH-DRO (C10-C44)

R.T.: 12.000 min
Delta R.T.: 0.000 min
Response: 4295990088
Conc: 2630.25 PPM m



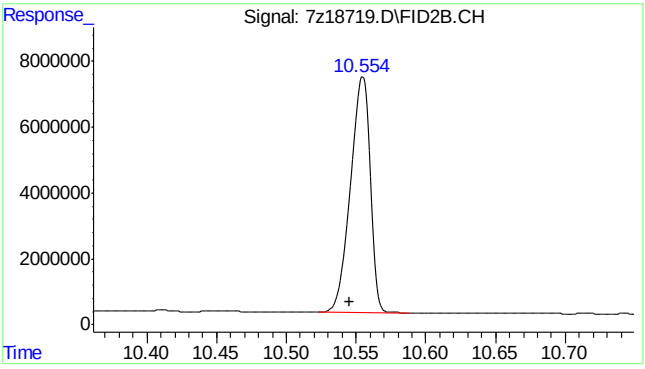
#8 o-Terphenyl

R.T.: 8.583 min
Delta R.T.: 0.018 min
Response: 93598769
Conc: 48.11 PPM m



#9 5a-Androstane

R.T.: 9.266 min
Delta R.T.: 0.020 min
Response: 85823855
Conc: 45.01 PPM m



#10 Tetracosane-d50

R.T.:	10.554 min
Delta R.T.:	0.009 min
Response:	69612440
Conc:	42.82 PPM m

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 07/18/16 12:49

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G7Z755\
Data File : 7z18720.D
Signal(s) : FID2B.CH
Acq On : 13 Jul 2016 11:10 pm
Operator : thomasl
Sample : jc23588-9
Misc : op95461,g7z755,300,,,1,1
ALS Vial : 74 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jul 15 14:58:30 2016
Quant Method : C:\msdchem\1\METHODS\DRO7Z747.M
Quant Title :
QLast Update : Thu Jul 14 15:42:28 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
8) S	o-Terphenyl	8.587f	93243256	47.922	PPM	m
9) S	5a-Androstane	9.269f	74676017	39.166	PPM	m
10) S	Tetracosane-d50	10.555	58048936	35.711	PPM	m
	Target Compounds					
1) H	TPH-DRO	7.500	8419266659	5154.754	PPM	
2) H	TPH-DRO (C10-C44)	12.000	9004961343	5513.349	PPM	

(f)=RT Delta > 1/2 Window (m)=manual int.

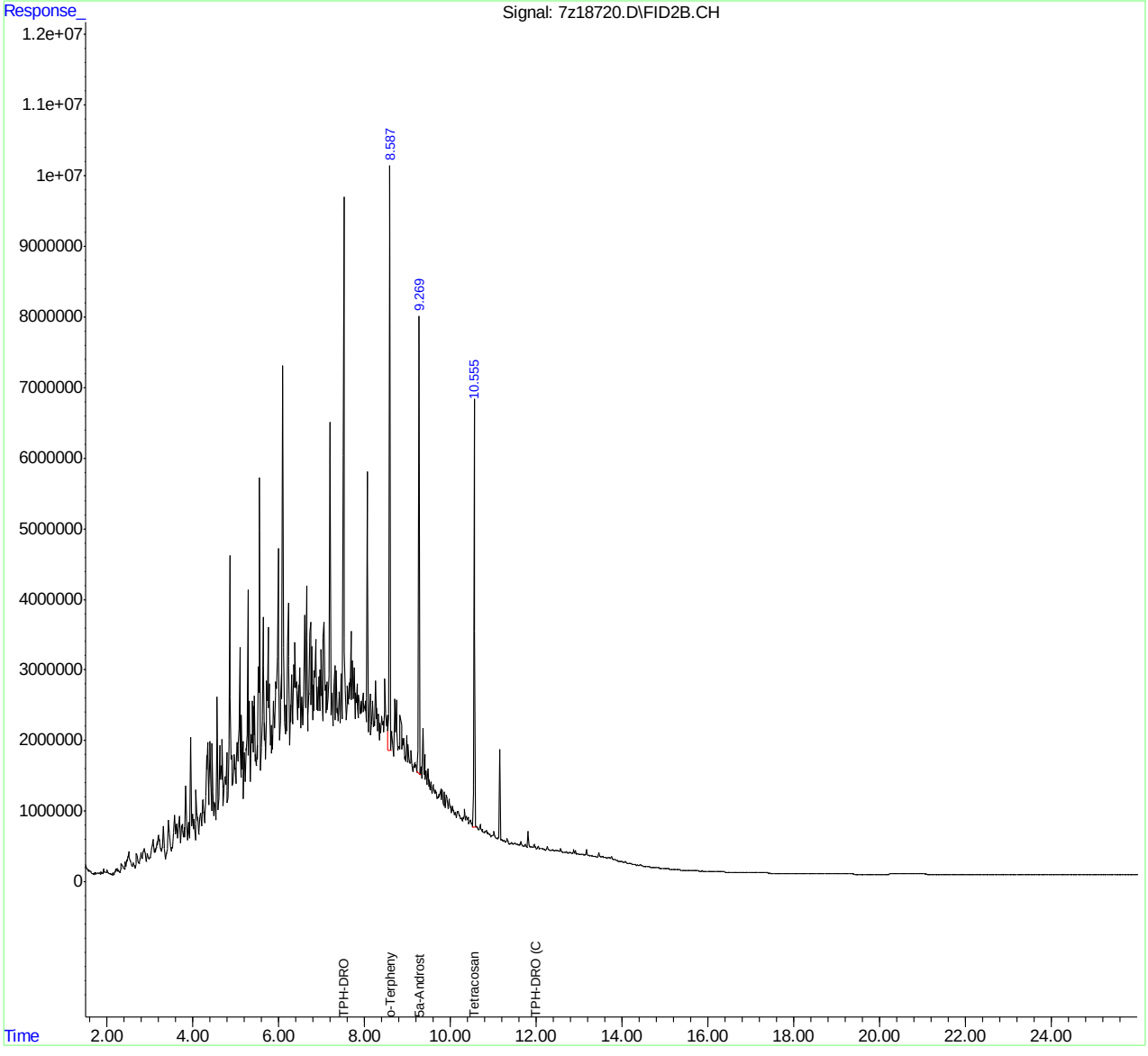
11.1.9 11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G7Z755\
Data File : 7z18720.D
Signal(s) : FID2B.CH
Acq On : 13 Jul 2016 11:10 pm
Operator : thomasl
Sample : jc23588-9
Misc : op95461,g7z755,300,,,1,1
ALS Vial : 74 Sample Multiplier: 1

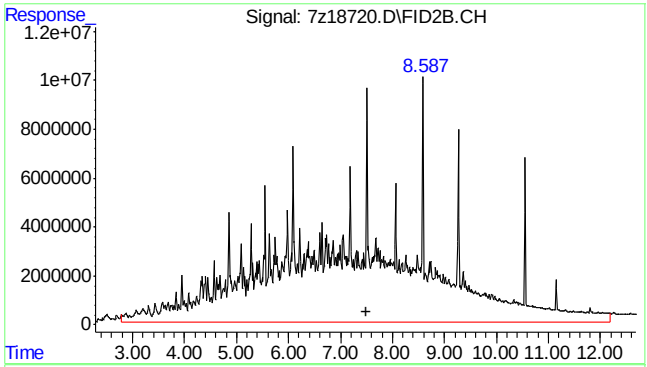
Integration File: events.e
Quant Time: Jul 15 14:58:30 2016
Quant Method : C:\msdchem\1\METHODS\DRO7Z747.M
Quant Title :
QLast Update : Thu Jul 14 15:42:28 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um



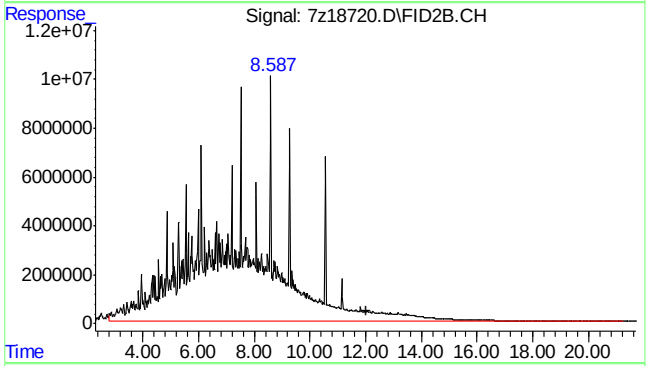
DRO7Z747.M Fri Jul 15 15:00:03 2016 Page: 2

SGS ACCUTEST JC23588



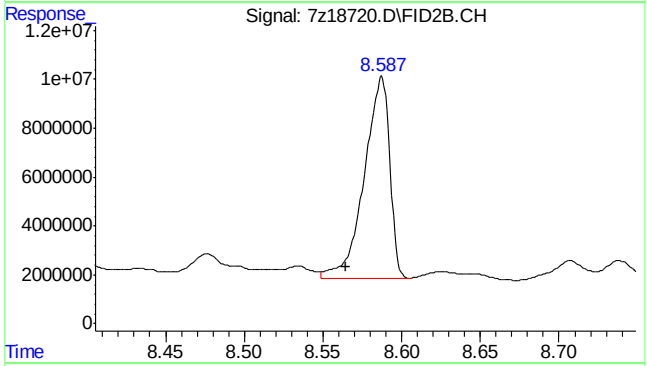
#1 TPH-DRO

R.T.: 7.500 min
Delta R.T.: 0.000 min
Response: 8419266659
Conc: 5154.75 PPM m



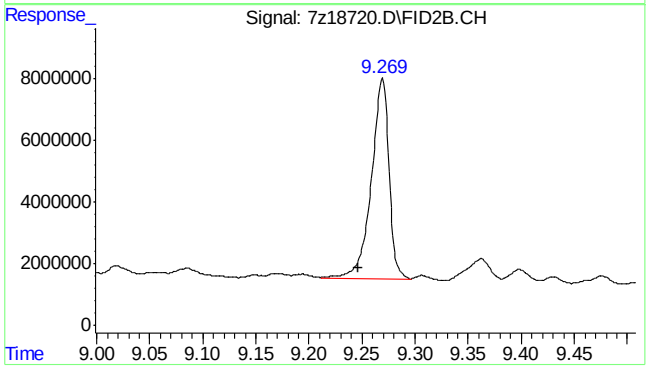
#2 TPH-DRO (C10-C44)

R.T.: 12.000 min
Delta R.T.: 0.000 min
Response: 9004961343
Conc: 5513.35 PPM m



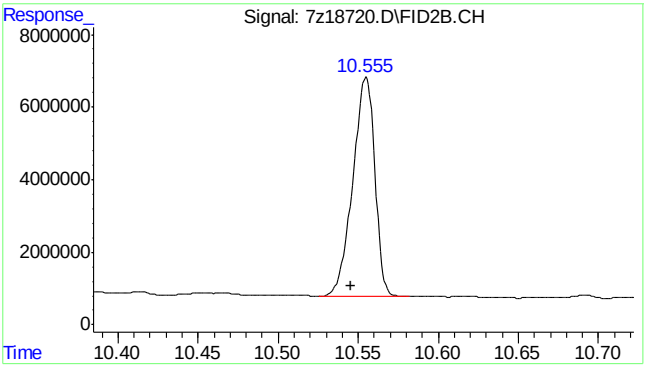
#8 o-Terphenyl

R.T.: 8.587 min
Delta R.T.: 0.022 min
Response: 93243256
Conc: 47.92 PPM m



#9 5a-Androstane

R.T.: 9.269 min
Delta R.T.: 0.022 min
Response: 74676017
Conc: 39.17 PPM m



#10 Tetracosane-d50

R.T.:	10.555 min
Delta R.T.:	0.009 min
Response:	58048936
Conc:	35.71 PPM m

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G7Z757\
Data File : 7z18771.D
Signal(s) : FID2B.CH
Acq On : 15 Jul 2016 6:09 pm
Operator : thomasl
Sample : op95461-mb1
Misc : op95461,g7z757,300,,,1,1
ALS Vial : 59 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jul 18 09:31:08 2016
Quant Method : C:\msdchem\1\METHODS\DRO7Z747.M
Quant Title :
QLast Update : Mon Jul 18 08:19:28 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
8) S	o-Terphenyl	8.572	79191327	40.700	PPM
9) S	5a-Androstane	9.256	79854612	41.882	PPM
10) S	Tetracosane-d50	10.550	63410379	39.009	PPM
	Target Compounds				

(f)=RT Delta > 1/2 Window (m)=manual int.

11.2.1

11

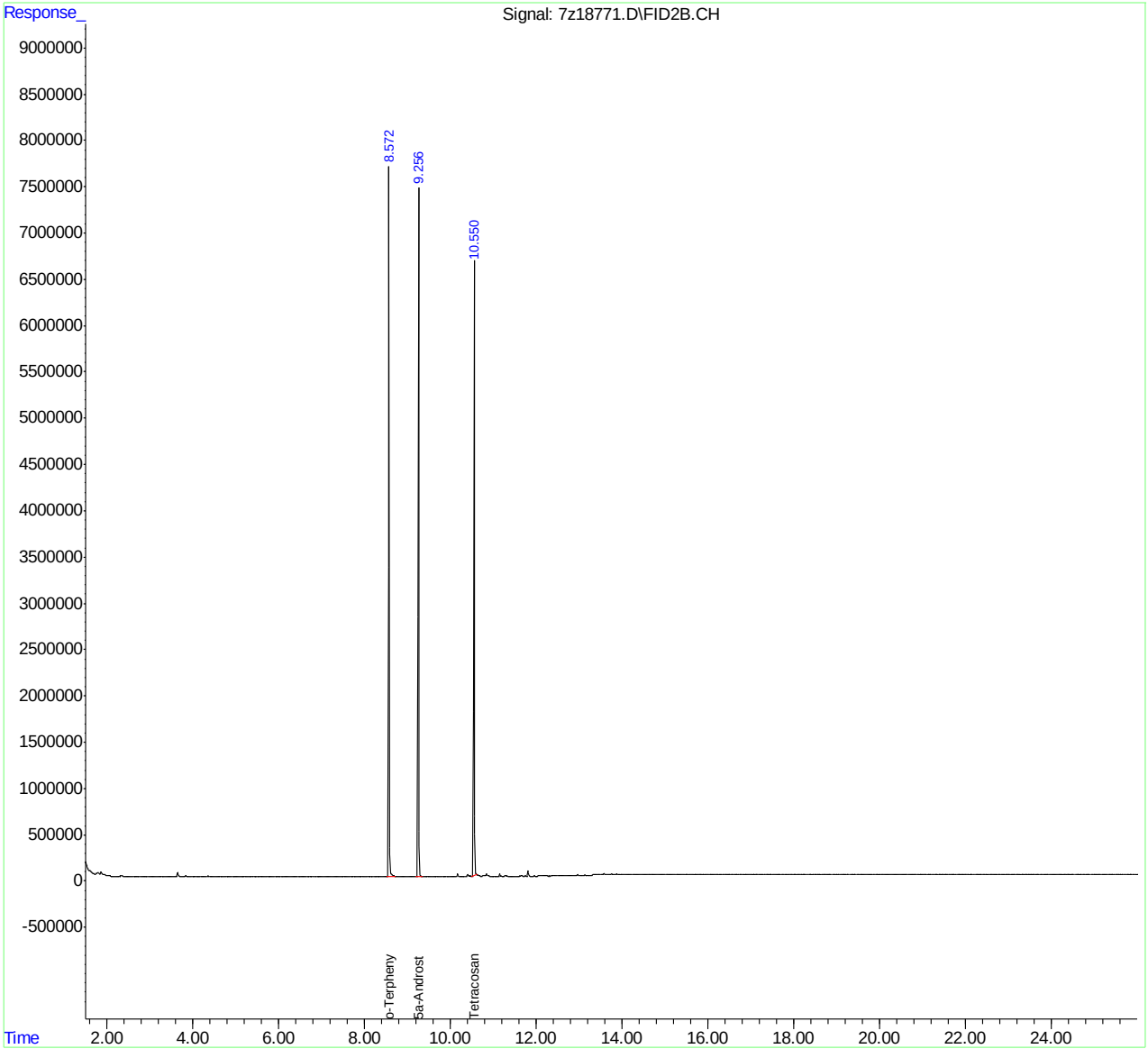
SGS ACCUTEST JC23588

Quantitation Report (QT Reviewed)

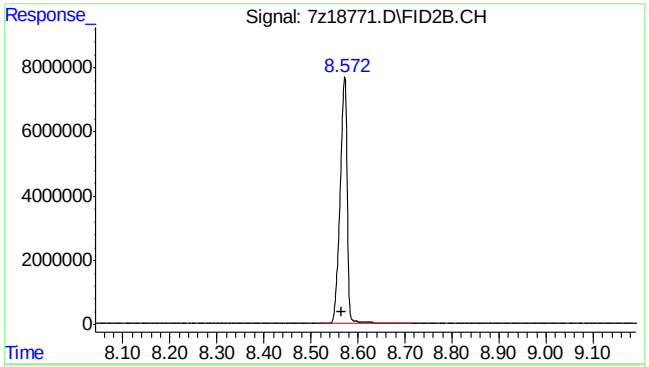
Data Path : C:\msdchem\1\DATA\G7Z757\
Data File : 7z18771.D
Signal(s) : FID2B.CH
Acq On : 15 Jul 2016 6:09 pm
Operator : thomasl
Sample : op95461-mb1
Misc : op95461,g7z757,300,,,1,1
ALS Vial : 59 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jul 18 09:31:08 2016
Quant Method : C:\msdchem\1\METHODS\DRO7Z747.M
Quant Title :
QLast Update : Mon Jul 18 08:19:28 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

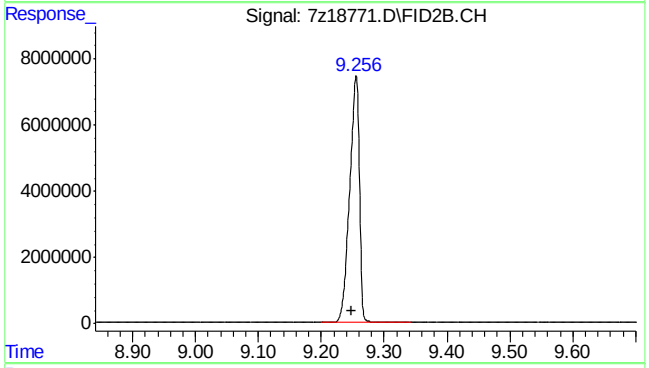


DRO7Z747.M Mon Jul 18 09:38:07 2016 Page: 2



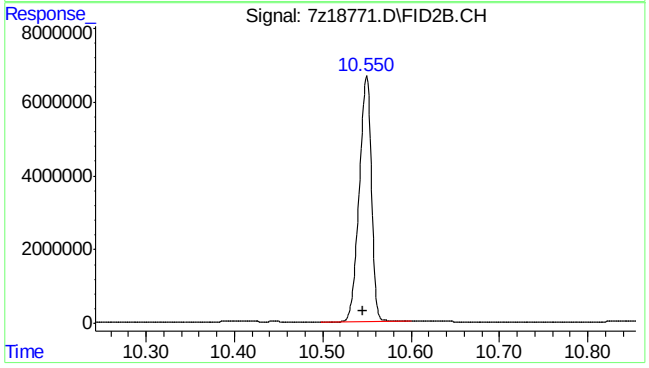
#8 o-Terphenyl

R.T.: 8.572 min
Delta R.T.: 0.008 min
Response: 79191327
Conc: 40.70 PPM



#9 5a-Androstane

R.T.: 9.256 min
Delta R.T.: 0.008 min
Response: 79854612
Conc: 41.88 PPM



#10 Tetracosane-d50

R.T.: 10.550 min
Delta R.T.: 0.004 min
Response: 63410379
Conc: 39.01 PPM

SGS ACCUTEST JC23588