

ATTACHMENT A

STATE AIR RESOURCES MONITOR
MAY 27 15

AIR EMISSION TEST REPORT

**Amory, Mississippi Wood Pellet Production Facility
Enviva Pellets Amory, LLC**

Submitted to

Enviva Pellets Amory, LLC

Submitted by

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Report Submittal Date: October 31, 2013
(Revised November 14, 2013)
Air Control Techniques, P.C. File 1909

Air
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Definitions

Total Hydrocarbons	All organic compounds containing hydrogen and carbon that are detected by a flame ionization detector operated in accordance with U.S. EPA Method 25A.
Volatile Organic Compounds	All organic compounds that are emitted to the atmosphere in a gaseous or vapor form that can participate in photochemical reactions to produce ozone. All volatile organic compounds are considered VOCs unless specifically exempted in 40 CFR 51.100(s). Relevant excluded compounds include methane, ethane, and acetone.
VOC Emissions	Mass emissions of VOC measured on a pounds of carbon basis.

Acronyms

DHM	Dry Hammermill
EPA	U.S. Environmental Protection Agency
FID	Flame Ionization Detector
FTIR	Fourier Transform Infrared Spectrometer
GHM	Green Hammermill
HAP	Hazardous Air Pollutant
MC	Moisture Content
MDEQ	Mississippi Department of Environmental Quality
ODT	Oven Dried Tons
THC	Total Hydrocarbons
VOC	Volatile Organic Compounds
C1	Carbon

Units of Measure

ppm	Parts per million (wet basis)
ppmvd	Parts per million (dry basis)
ppm C ₃	Parts per million as propane
ppm C ₁	Parts per million as carbon
mg	Milligram
kg	Kilogram
µg	Micrograms

Permit Designations/Titles

Green Hammermill	AA-001, Wet Wood Hammermill
Dryer	AA-002, Wood-Fired Rotary Dryer
Dry Hammermill	AA-003, Dry Wood Hammermill
Aspiration System	AA-004, Pellet Cooler Process and AA-005 Pellet Mill Aspiration System

Air Emission Test Report Amory, Mississippi Wood Pellet Production Facility

1. SUMMARY

Enviva Pellets, Amory, LLC (Enviva) has sponsored air emission testing to satisfy the requirements of Agreed Order 6267-13 dated June 16, 2013 (the "Order"). These test results are being submitted to the Mississippi Department of Environmental Quality (MDEQ) by October 31, 2013 in accordance with the Order.

The scope of the testing program included volatile organic compounds (VOCs) and six organic hazardous air pollutants (HAPs). Annual emissions of each analyte have been calculated and compared to applicable permit limits. The results of the testing program are summarized in Table 1-1 based on the present maximum permitted production limit of 99,000 output tons per year in the permit.

Analyte	Dryer	Dry Hammermill	Green Hammermill	Aspirator	Total
Total VOC	29.9	41.72	12.71	100.89	185.3
Methanol	2.50	0.34	1.37	0.73	4.94
Acetaldehyde	0.00	0.00	0.00	0.00	0.00
Acrolein	0.00	0.00	0.00	0.00	0.00
Formaldehyde	0.64	0.00	0.00	0.00	0.64
Phenol	0.00	0.00	0.00	0.00	0.00
Propionaldehyde	0.00	0.00	0.00	0.00	0.00
Total HAPS	3.14	0.34	1.37	0.73	5.58

At the current maximum permitted production limit, VOC emissions are above the facility wide limit of 99.0 tons per year but are below the PSD threshold of 250 tons per year. The total HAP emissions are under 25 tons per year, and each of the HAPs has an emission rate less than 10 tons per year.

The air emission tests were conducted by Air Control Techniques, P.C. using EPA Reference Methods 1, 2, 3, 4, 25A, and 320 in accordance with the test protocol submitted to MDEQ on July 31, 2013^[1]. The emission tests were conducted from Monday, October 14 through Wednesday, October 16, 2013. This report summarizes the emissions test data, quality assurance data, test method procedures, sampling equipment calibrations, process operating conditions, and test program participants.

2. EMISSION TEST PROGRAM DESCRIPTION

2.1 Amory, Mississippi Plant Description

Enviva operates a plant producing wood pellets. The plant consists of a wood receiving yard, log debarkers and chippers, a rotary dryer, a hammermill, and an aspiration system serving the pellet presses and coolers. The plant processes wood composed of a range of hardwoods and softwoods.

2.2 Purpose and Scope of the Emission Test Program

Based on a voluntary self-evaluation, Enviva reported to the Mississippi Department of Environmental Quality (MDEQ) that it may have underreported emissions of volatile organic compounds (VOCs) in its permit application. Enviva's concern was based on a set of engineering-oriented tests^[2] conducted in November 2012 that indicated that VOC emissions from a hammermill source and a press cooler aspiration vent may be higher than previously known. While emissions from specific wood pellet plants are highly dependent on the specific equipment employed and, to a lesser degree, the hardwood/softwood mix of raw material, Enviva's preliminary findings in the November 2012 engineering test are generally consistent with other recent findings in the Wood Pellet Industry, specifically the engineering-oriented tests^[3] at a Georgia Biomass, Inc. plant in Waycross, Georgia and Green Circle Bio Energy in Cottondale, Florida.

This air emission testing program is intended to address Enviva's concern and fulfills the requirements of the Order. Specifically, Enviva agreed to generate VOC emissions data for the following sources.

- Dryer stack
- Dry Hammermill stack
- Green Hammermill stack
- Pellet Mill and Cooler Aspiration System

2.3 Test Participants

The Enviva project manager for this project was Mr. Michael Doniger, Director of Plant Operations. He was assisted by Mr. Joe Harrell, Environmental Manager, Mr. Mike Jones, and Mr. John Burns, Amory Plant Manager.

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Legal counsel for Enviva is Mr. Alan McConnell. Mr. McConnell participated in this study to ensure that it addressed the requirements of the Order.

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Enviva retained Air Control Techniques, P.C. to conduct the air emission testing program at the Amory plant. The Air Control Techniques, P.C. project manager was John Richards, Ph.D., P.E., QSTI. He was assisted by David Goshaw, P.E., QSTI, Todd Brozell, P.E., QSTI, and Jonas Gilbert. Tom Holder, QSTI provided quality assurance services for the test program. Contact information for Air Control Techniques, P.C. includes the following.

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Enthalpy, Inc. provided Method 320 consulting support. The Enthalpy project manager for this project was Mr. Bryan Tyler. He was assisted by Dr. Grant Plummer, Mr. Clint Thrasher, and Mr. Steve Eckert, President.

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3. TEST MATRIX AND TEST RESULTS

3.1 Test Matrix

Table 3-1 summarizes the test program analytes, sampling methods, and analytical methods used for the four sources listed in Section 1.1.

Analyte	Test Method	Number of Runs	Run Length	Analytical Method
Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol, Propionaldehyde	EPA Method 320	3	60 min	FTIR
Gas Flow	EPA Method 2	3	60 min	Manometer
Gas Molecular Weight, Oxygen, Carbon Dioxide	EPA Method 3	3	60 min	Fyrite® Analyzer
Gas Moisture	EPA Method 4	3	60 min	Gravimetric
Total Hydrocarbons (THC)	EPA Method 25A	3	60 min	FID

The tests were conducted on Monday, October 14 through Wednesday October 16, 2013.

3.2 Test Results

The VOC and organic HAP test results and calculated annual emission rates are summarized in Tables 3-2 through 3-5. VOC and HAP emissions were measured simultaneously at each of the four emission units tested.

The VOC emissions have been calculated based on the total hydrocarbon data provided by Method 25A. The Method 25A data have been converted from a wet to a dry basis to account for the moisture in the stack gas stream. Total hydrocarbon concentrations (THC) have been used as a surrogate for VOCs.

The VOC emission calculations do not include any corrections for methane, ethane, or acetone despite the fact that these compounds are detected by Method 25A but are not classified as VOCs. Accordingly, the reported VOC emissions are biased to higher-than-true levels to the extent that these three compounds affected the Method 25A results.

The Method 25A data reflect the combined THC concentrations consisting of (1) alpha and beta pinene, (2) numerous other terpenes such as limonene and 3-carene, and (3) the organic HAPs. The organic HAP emissions discussed later in this report are also classified as VOCs and represent a small fraction of the total VOC emissions reported.

Method 320 was used to measure six organic compounds. Several of the organic compounds were below the detection limits of Method 320 in this matrix of gaseous constituents. These non-detection concentrations are designated by shading in Tables 3-2 through 3-5.

Parameter	Run 1	Run 2	Run 3	Average
Date	10/14/2013	10/14/2013	10/14/2013	N/A
Start	15:15	16:49	17:58	N/A
Stop	16:15	17:49	19:02	N/A
Throughput, tons/hour	12.8	12.8	12.8	12.8
Moisture Content Outlet, %wt.	8.5	11.6	13.2	11.1
Throughput, ODT/hour	11.71	11.32	11.11	11.4
ACFM	70,382	69,968	68,852	69,734
DSCFM	49,036	49,728	48,642	49,135
Stack Temperature, °F	199.6	189.6	187.8	192.3
O ₂ , %	19	19.5	19	19.2
% Moisture	12.05	11.64	12.06	11.9
VOC, ppmvd as Propane	33.6	24.8	25.2	27.9
VOC, ppmvd as C1	100.8	74.4	75.6	83.6
VOC, lbs/hour as C1	9.2	6.9	6.9	7.7
VOC, lbs/ODT	0.79	0.61	0.62	0.7
Methanol, ppmvd	3.61	1.83	2.43	2.62
Acetaldehyde, ppmvd	0.99	0.98	0.99	0.98
Acrolein, ppmvd	3.05	3.03	3.05	3.04
Formaldehyde, ppmvd	0.82	0.57	0.74	0.71
Phenol, ppmvd	4.15	4.13	4.15	4.14
Propionaldehyde, ppmvd	0.63	0.63	0.63	0.63
Methanol, lbs/hour	0.88	0.45	0.59	0.64
Acetaldehyde, lbs/hour	0.00	0.00	0.00	0.00
Acrolein, lbs/hour	0.00	0.00	0.00	0.00
Formaldehyde, lbs/hour	0.19	0.13	0.17	0.16
Phenol, lbs/hour	0.00	0.00	0.00	0.00
Propionaldehyde, lbs/hour	0.00	0.00	0.00	0.00
Methanol, lbs/ODT	0.075	0.040	0.053	0.056
Acetaldehyde, lbs/ODT	0.000	0.000	0.000	0.000
Acrolein, lbs/ODT	0.000	0.000	0.000	0.000
Formaldehyde, lbs/ODT	0.016	0.012	0.015	0.014
Phenol, lbs/ODT	0.000	0.000	0.000	0.000
Propionaldehyde, lbs/ODT	0.000	0.000	0.000	0.000

1. Note: Shaded area indicates a calculated minimum detection limit. Emissions were calculated based on zero for non-detect values.

Parameter	Run 1	Run 2	Run 3	Average
Date	10/15/2013	10/15/2013	10/15/2013	N/A
Start	9:11	10:22	11:40	N/A
Stop	10:11	11:22	12:40	N/A
Throughput, tons/hour	9.9	9.9	9.9	9.9
Moisture Content Outlet, %wt.	48	48	48	48.0
Throughput, ODT/hour	5.148	5.148	5.148	5.1
ACFM	12,277	12,367	12,326	12,323
DSCFM	11,630	11,634	11,490	11,585
Stack Temperature, °F	87.4	87.5	88.4	87.8
O ₂ , %	20.9	20.9	20.9	20.9
% Moisture	2.25	2.92	3.64	2.94
VOC, ppmvd as Propane	17.9	21.8	28.2	22.6
VOC, ppmvd as C1	53.6	65.5	84.7	67.9
VOC, lbs/hour as C1	1.16	1.42	1.82	1.47
VOC, lbs/ODT	0.23	0.28	0.35	0.29
Methanol, ppmvd	2.68	2.77	2.79	2.74
Acetaldehyde, ppmvd	0.89	0.89	0.90	0.00
Acrolein, ppmvd	2.74	2.76	2.78	0.00
Formaldehyde, ppmvd	0.21	0.21	0.21	0.00
Phenol, ppmvd	3.73	3.76	3.79	0.00
Propionaldehyde, ppmvd	0.57	0.57	0.58	0.00
Methanol, lbs/hour	0.16	0.16	0.16	0.159
Acetaldehyde, lbs/hour	0.00	0.00	0.00	0.00
Acrolein, lbs/hour	0.00	0.00	0.00	0.00
Formaldehyde, lbs/hour	0.00	0.00	0.00	0.00
Phenol, lbs/hour	0.00	0.00	0.00	0.00
Propionaldehyde, lbs/hour	0.00	0.00	0.00	0.00
Methanol, lbs/ODT	0.030	0.031	0.031	0.031
Acetaldehyde, lbs/ODT	0.000	0.000	0.000	0.000
Acrolein, lbs/ODT	0.000	0.000	0.000	0.000
Formaldehyde, lbs/ODT	0.000	0.000	0.000	0.000
Phenol, lbs/ODT	0.000	0.000	0.000	0.000
Propionaldehyde, lbs/ODT	0.000	0.000	0.000	0.000

1. Note: Shaded area indicates a calculated minimum detection limit. Emissions were calculated based on zero for non-detect values.

Table 3-4. Aspiration System Emission Test Results				
Parameter	Run 1	Run 2	Run 3	Average
Date	10/15/2013	10/15/2013	10/15/2013	N/A
Start	17:36	18:49	20:00	N/A
Stop	18:36	19:49	21:00	N/A
Throughput, tons/hour	16	16	16	16.0
Moisture Content Outlet, %wt.	9.1	9.1	9.1	9.1
Throughput, ODT/hour	14.54	14.54	14.54	14.5
ACFM	14,422	14,387	14,397	14,402.0
DSCFM	11,294	11,235	11,210	11,246
Stack Temperature, °F	138.9	138.3	138.6	138.6
O ₂ , %	20.9	20.9	20.9	20.9
% Moisture	7.73	8.08	8.32	8.0
VOC, ppmvd as Propane	376.9	413.8	303.6	364.8
VOC, ppmvd as C1	1130.7	1241.4	910.8	1,094.3
VOC, lbs/hour as C1	23.9	26.1	19.1	23.0
VOC, lbs/ODT	1.64	1.79	1.31	1.6
Methanol, ppmvd	2.83	3.11	2.94	2.96
Acetaldehyde, ppmvd	0.94	0.94	0.95	0.94
Acrolein, ppmvd	2.90	2.91	2.92	2.91
Formaldehyde, ppmvd	0.91	0.89	0.87	0.89
Phenol, ppmvd	3.95	3.97	3.98	3.97
Propionaldehyde, ppmvd	0.60	0.61	0.61	0.61
Methanol, lbs/hour	0.16	0.17	0.16	0.17
Acetaldehyde, lbs/hour	0.00	0.00	0.00	0.00
Acrolein, lbs/hour	0.00	0.00	0.00	0.00
Formaldehyde, lbs/hour	0.05	0.05	0.05	0.05
Phenol, lbs/hour	0.00	0.00	0.00	0.00
Propionaldehyde, lbs/hour	0.00	0.00	0.00	0.00
Methanol, lbs/ODT	0.011	0.012	0.011	0.011
Acetaldehyde, lbs/ODT	0.000	0.000	0.000	0.000
Acrolein, lbs/ODT	0.000	0.000	0.000	0.000
Formaldehyde, lbs/ODT	0.003	0.003	0.003	0.003
Phenol, lbs/ODT	0.000	0.000	0.000	0.000
Propionaldehyde, lbs/ODT	0.000	0.000	0.000	0.000

1. Note: Shaded area indicates a calculated minimum detection limit. Emissions were calculated based on zero for non-detect values.

Four test runs were conducted on the dry hammermill. During the first run conducted on October 15, 2013, problems relating to either stones entering the hammermill or problems with the hammers were causing the system to malfunction. The unit was inspected overnight and found in good condition. Three additional runs were conducted on October 16, 2013. All four runs were included in the test averages.

Table 3-5. Dry Hammermill Emission Test Results					
Parameter	Run 1	Run 2	Run 3	Run 4	Average
Date	10/15/2013	10/16/2013	10/16/2013	10/16/2013	N/A
Start	13:48	10:54	12:07	13:21	N/A
Stop	14:48	11:54	13:07	14:21	N/A
Throughput, tons/hour	17.6	16.1	16.1	16.1	16.5
Moisture Content Outlet, %wt.	10	10	10	10	10.0
Throughput, ODT/hour	15.84	14.49	14.49	14.49	14.8
ACFM	19,757	18,980	19,427	19,321	19,371.3
DSCFM	17,849	17,591	17,745	17,421	17,652
Stack Temperature, °F	100.8	88.6	93.8	96.1	94.8
O ₂ , %	20.9	20.9	20.9	20.9	20.9
% Moisture	3.57	2.89	3.4	4.25	3.5
VOC, ppmvd as Propane	122.3	82.7	88.6	91.5	96.3
VOC, ppmvd as C1	366.9	248.1	265.8	274.5	288.8
VOC, lbs/hour as C1	12.2	8.2	8.8	8.9	9.5
VOC, lbs/ODT	0.77	0.57	0.61	0.61	0.6
Methanol, ppmvd	1.04	0.71	0.83	0.9	0.87
Acetaldehyde, ppmvd	0.90	0.89	0.90	0.75	0.86
Acrolein, ppmvd	2.83	2.76	2.77	2.80	2.80
Formaldehyde, ppmvd	0.21	0.21	0.21	0.14	0.19
Phenol, ppmvd	3.78	3.76	3.78	0.42	2.93
Propionaldehyde, ppmvd	0.58	0.57	0.58	0.24	0.49
Methanol, lbs/hour	0.06	0.04	0.05	0.06	0.05
Acetaldehyde, lbs/hour	0	0	0	0	0.00
Acrolein, lbs/hour	0	0	0	0	0
Formaldehyde, lbs/hour	0	0	0	0	0.00
Phenol, lbs/hour	0	0	0	0	0.00
Propionaldehyde, lbs/hour	0	0	0	0	0.00
Methanol, lbs/ODT	0.004	0.003	0.003	0.004	0.004
Acetaldehyde, lbs/ODT	0.000	0.000	0.000	0.000	0.000
Acrolein, lbs/ODT	0.004	0.004	0.004	0.004	0.004
Formaldehyde, lbs/ODT	0.000	0.000	0.000	0.000	0.000
Phenol, lbs/ODT	0.000	0.000	0.000	0.000	0.000
Propionaldehyde, lbs/ODT	0.000	0.000	0.000	0.000	0.000

1. Note: Shaded area indicates a calculated minimum detection limit. Emissions were calculated based on zero for non-detect values.

3.3 Emissions Data Evaluation

Method 25A VOC Concentrations

The VOC emissions from the various process units ranged from 0.03 to 1.6 pounds per ODT. VOC emissions expressed on a pounds per ODT basis were highest from the aspiration system.

The data summarized in Tables 3-2 through 3-5 indicate that the total VOC emissions from the Amory Plant exceed 100 tons per year calculated as carbon. These tests confirm that the plant is a Title V major source for VOCs.

The accuracy of the VOC data is demonstrated by a Method 25A response factor of approximately 1 for the group of compounds present in the gas stream. The Method 25A response is expressed in terms of a response factor that is defined as the observed Method 25A concentration divided by the true concentration. The Method 25A FID has a response factor close to 1.0 for a large set of organic compounds. Some high molecular weight organics have a response factor larger than 1, and in some cases, approaching 1.5. For these compounds, Method 25A is biased to higher-than-true concentrations. Some low molecular weight-highly oxygenated organic compounds such as methanol and formaldehyde have very low response factors in the range of 0.1 to 0.4. For these compounds, Method 25A is biased to lower-than-true concentrations.

As part of the laboratory tests reported to MDEQ in Enviva’s Phase I emission study dated July 31, 2013^[4] (the “Phase I Study”), Air Control Techniques, P.C. has taken the following two independent approaches in assessing the Method 25A response factors: (1) direct measurement of the Method 25A response factor using an alpha-pinene gas standard, the dominant organic compound measured during the laboratory tests and (2) a comparison of the Method 25A concentration data with the summed concentrations of all of the specific organics measured simultaneously using NCASI Method 98.01 and EPA Method 18. The results of these response factor analyses are presented in Tables 3-6 and 3-7.

Alpha-Pinene Gas Standard, as C ₁₀ H ₁₆	259 ppm
Alpha-Pinene Gas Standard, as C ₃	863 ppm
FID Response, as C ₃	888 ppm
Response Factor as C ₃	1.03

1. Note: This table was included in the Phase I Study report to MDEQ.

Run	Process Type	Softwood Content, %	Method 25A versus Combined NCASI 98.01 and Method 18	Dominant Compounds	Other Important Compounds
4	Dryer	10	0.72	α -and β -Pinene	Acetone, Methanol
5	Dryer	10	0.70	α -and β -Pinene	Acetone, Methanol
6	Dryer	10	0.75	α -and β -Pinene	Methanol, Formaldehyde
21	Dryer	10	1.23	α -and β -Pinene	Acetone, Methanol
22	Press	10	1.05	α -and β -Pinene	Acetone, Methanol
7	Dryer	70	0.85	α -and β -Pinene	Acetone
8	Dryer	70	0.90	α -and β -Pinene	Acetone
9	Dryer	70	1.02	α -and β -Pinene	Acetone
10	Dryer	70	0.91	α -and β -Pinene	Acetone
24	Press	70	1.51	α -and β -Pinene	Acetone, Methanol
11	Dryer	100	0.99	α -and β -Pinene	Acetone
12	Dryer	100	0.96	α -and β -Pinene	Acetone
13	Dryer	100	0.85	α -and β -Pinene	Acetone
14	Dryer	100	0.87	α -and β -Pinene	Acetone
16	Dryer	100	1.09	α -and β -Pinene	Methanol, Acetone
19	Dryer	100	1.21	α -and β -Pinene	Methanol, Acetone
20	Press	100	1.13	α -and β -Pinene	Methanol, Acetone
Test Program Average			0.98		

1. Note: This table was included in the Phase I Study report to MDEQ.

The excellent agreement between the Method 25A total concentration and the combined concentrations of all of the organics measured by NCASI 98.01 and EPA Method 18 demonstrate that Method 25A is an appropriate VOC measurement technique for wood pellet production facilities.

Method 320 HAP Concentrations

At the maximum permitted production limit of 99,000 ODT per year for the dryer/GHM, and maximum potential operations of 8,760 hours for the DHM/aspiration sources, all six of the organic HAPs are each emitted at less than 10 tons per year. The total HAP emissions for the plant are less than 25 tons per year.

The list of HAPs specifically included in the test protocol included methanol, acetaldehyde, acrolein, formaldehyde, phenol, and propionaldehyde. This list was compiled based on (1) the organic compounds identified in laboratory analyses of pellet production facilities emissions, (2) previous emission tests conducted in the Pellet Manufacturing Industry, and (3) organic HAPs identified in studies of other wood products industries—specifically, MDF production.

The results of this test program indicate that this list of HAPs compounds needs to be amended. Phenol was not detected in any of the tests of the four process units. Propionaldehyde was also not detected in any of the tests.

The non-detectable phenol emissions data are consistent with the results of the Phase I Study. Phenol was not identified at detectable concentrations in any of the laboratory studies summarized in the Phase I Study report. The emission rates of phenol reported in a November 2012 Wiggins report ^[2] ranged from 0.0002 to 0.0018 pounds per hour—all insignificant emission rates. Phenol was also not listed in previous emission tests reviewed in preparation for this test program. Phenol was included in the test protocol primarily because other researchers such as Beauchemin and Tampier, ^[5] Milot, ^[6] and Milot and Mosher ^[7] listed phenol due to its inclusion in tests conducted at MDF and particleboard facilities. However, phenol emissions in MDF and particleboard production are due to the use of phenolic resins and similar binders. There is no reason to expect any appreciable phenol formation in pellet production considering (1) the lack of binders of any type in pellet production, (2) the higher moisture levels in pellet production as compared to MDF and particleboard processes, and (3) the lower material temperatures in pellet process equipment. Air Control Techniques, P.C. has assigned zero values to non-detected concentrations.

Acetaldehyde, propionaldehyde, and acrolein had very low concentrations in most of the emission tests summarized in this report. The IR absorption spectra of both water and the terpene compounds overlap the absorption spectra of acetaldehyde, propionaldehyde, and acrolein. Accordingly, the reported concentrations of these three compounds are biased to higher-than-true levels to the extent that this interference could not be avoided by Method 320 spectral absorption modeling. Zero values have been assigned when these concentrations were below detection limits of Method 320 due, in part, to the interference bias.

The use of zero values for non-detected compounds is an appropriate approach for any source, such as pellet production, where there are a few dominant compounds (i.e. methanol and formaldehyde) and a large number of possible compounds at extremely low levels such as phenol, acetaldehyde, and propionaldehyde. The use of non-detect or one-half non-detect concentrations in emission calculations for a large number of compounds potentially present at trace levels inherently makes any source “major” regardless of the actual emissions, size, or operations characteristics of the emission unit.

3.4 VOC and Organic HAP Emission Summary

Table 3-8 summaries annual emissions of VOC and organic HAP compounds. The annual emission rates are based on operation at the permit limited production rate of 99,000 ODT for the dryer/GHM, and maximum operations of 8,760 hours per year for the DHM/aspiration sources.

Analyte	Dryer	Dry Hammermill	Green Hammermill	Aspirator	Total
Total VOC	29.9	41.72	12.71	100.89	185.3
Methanol	2.50	0.34	1.37	0.73	4.94
Acetaldehyde	0.00	0.00	0.00	0.00	0.00
Acrolein	0.00	0.00	0.00	0.00	0.00
Formaldehyde	0.64	0.00	0.00	0.00	0.64
Phenol	0.00	0.00	0.00	0.00	0.00
Propionaldehyde	0.00	0.00	0.00	0.00	0.00
Total HAPS	3.14	0.34	1.37	0.73	5.58

4. SAMPLING LOCATIONS

4.1 Dryer Stack Sampling Location

The dryer sampling location meets EPA Method 1 location requirements as indicated in Figure 4-1. Twelve sampling points were used to measure the gas flow rate.

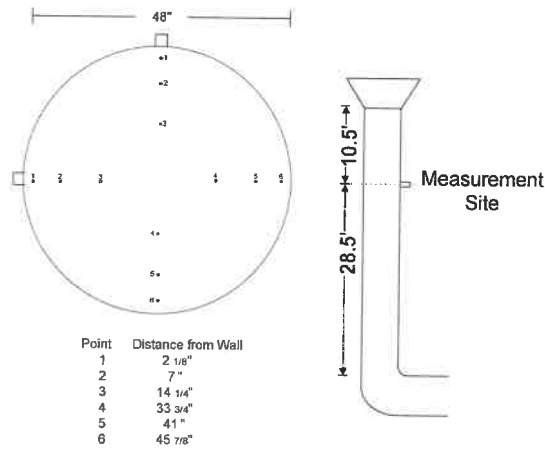


Figure 4-1 Dryer # 1 Stack Sampling Location

The downstream¹ flow disturbance is the stack discharge. The upstream flow disturbance is the duct from the fan entering the base of the stack.

During the sampling program, only the port facing south was used. The port facing east was blocked by the stack support cable.

No cyclonic flow conditions were observed in the Dryer stack. The point-by-point cyclonic flow checks indicated an average flow angle 1.9 degrees. This meets the requirements of Section 11.4 of Method 1. A photograph of the Dryer stack is shown in Figure 4-2.

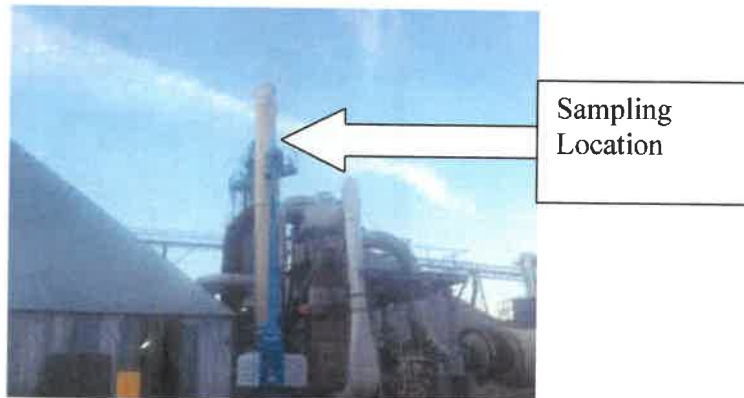


Figure 4-2. Photograph of the Dryer Stack

¹ "Upstream" and "downstream" are defined based on the sampling location as the reference point.

4.2 Dry Hammermill Stack Sampling Location

The Dry Hammermill sampling location meets EPA Method 1 location requirements as indicated in Figure 4-3. Twelve sampling points were used to measure the gas flow rate.

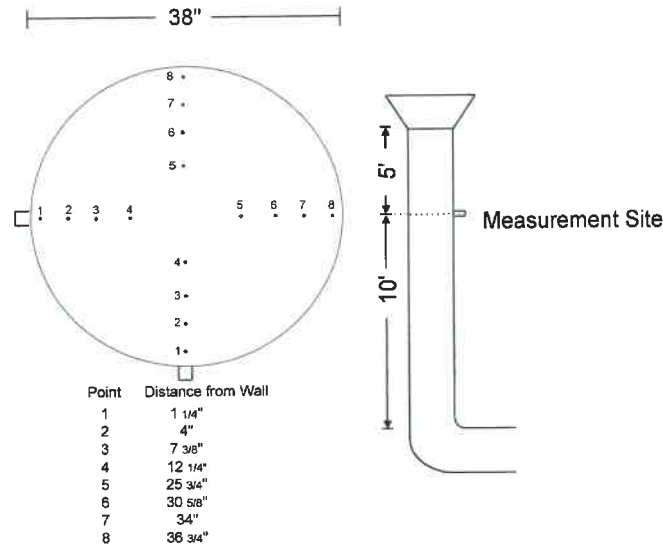


Figure 4-3. Dry Hammermill Sampling Location

The downstream flow disturbance is the stack discharge. The upstream flow disturbance is the fan discharge duct. During the sampling program, both ports were accessible.

No cyclonic flow conditions were observed in the Dry Hammermill stack. The point-by-point cyclonic flow checks indicated an average flow angle of 1.9 degrees. This meets the requirements of Section 11.4 of Method 1. A photograph of the Dry Hammermill stack is shown in Figure 4-4.

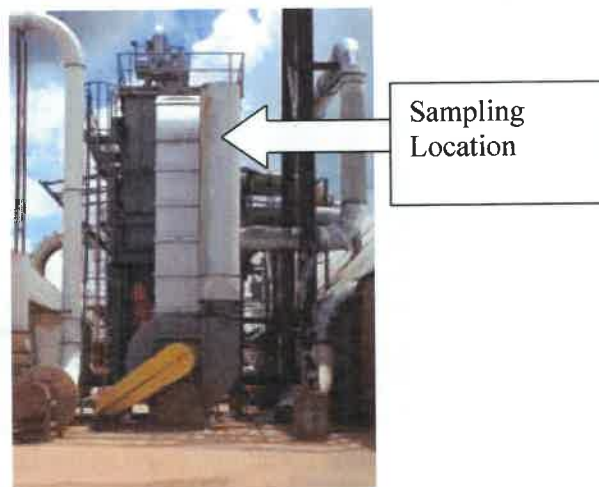


Figure 4-4. Photograph of the Dry Hammermill Sampling Location

4.3 Pellet Mill Aspiration System Sampling Location

The Aspiration System sampling location meets EPA Method 1 location requirements as indicated in Figure 4-5. Twelve sampling points were used to measure the gas flow rate.

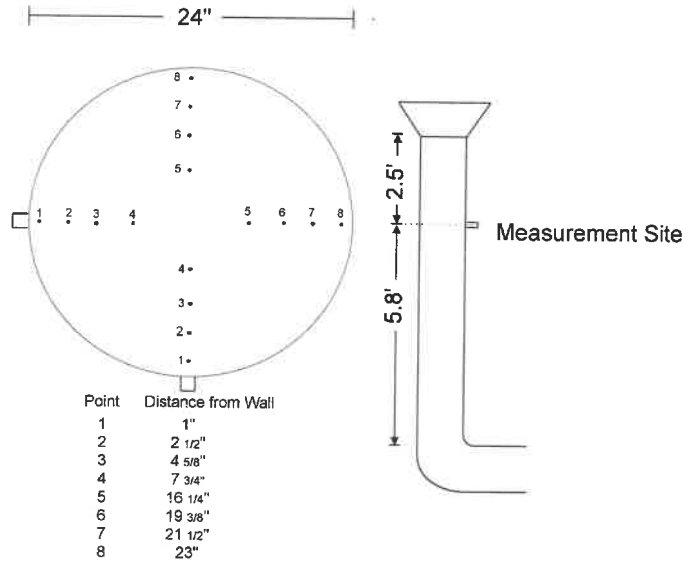


Figure 4-5. Pellet Mill Aspiration System Sampling Location

The upstream flow disturbance was an entry duct to the fan inlet. The downstream flow disturbance was an elbow from the multicyclone collector.

No cyclonic flow conditions were observed in the Aspiration System outlet duct. The point-by-point cyclonic flow checks indicated an average flow angle of 3.1 degrees. This meets the requirements of Section 11.4 of Method 1. A photograph of the Aspiration System sampling location is shown in Figure 4-6.

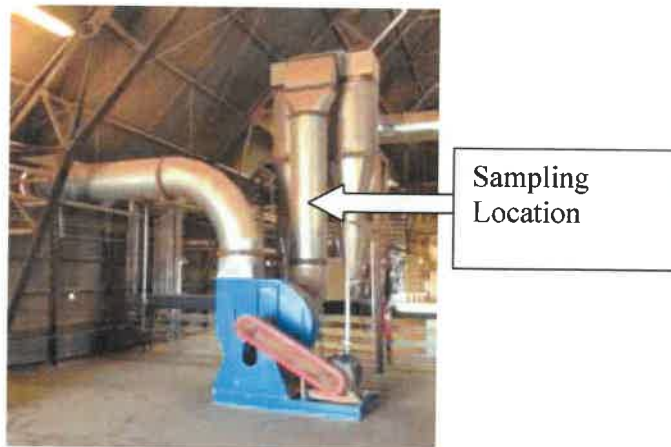


Figure 4-6. Photograph of the Pellet Mill Aspiration System Sampling Location

4.4 Green Hammermill Stack Sampling Location

The Green Hammermill stack sampling location shown in Figure 4-7 meets the minimum requirements for a downstream flow disturbance specified in Method 1, Section 11.1. The downstream flow disturbance is the fan discharge duct. The upstream flow disturbance is the stack discharge. Both ports were accessible for sampling.

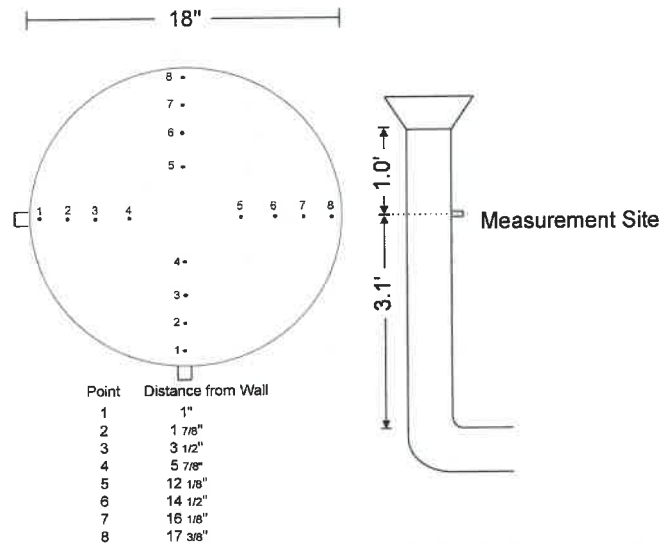


Figure 4-7. Green Hammermill Stack Sampling Location

No cyclonic flow conditions were observed in the Green Hammermill stack. The point-by-point cyclonic flow checks indicated an average flow angle of 2.6 degrees. This meets the requirements of Section 11.4 of Method 1. A photograph of the Green Hammermill stack is shown in Figure 4-8.



Figure 4-8. Green Hammermill Stack

5. TESTING PROCEDURES

5.1 Flue Gas Velocity and Volumetric Flow Rate - EPA Method 2

The flue gas velocities and volumetric flow rates during all of the emission tests were determined according to the procedures outlined in U.S. EPA Reference Method 2. Velocity measurements were made using S-Type Pitot tubes conforming to the geometric specifications outlined in Method 2. Accordingly, each Pitot was assigned a coefficient of 0.84. Velocity pressures were measured with fluid manometers. Effluent gas temperatures were measured with chromel-alumel thermocouples attached to digital readouts.

5.2 Flue Gas Composition and Molecular Weight - EPA Method 3

Flue gas analyses and calculation of flue gas dry molecular weights were performed in accordance with EPA Method 3. A stainless steel probe was inserted into the gas stream to collect a representative sample of the flue gas during each test run. The samples were analyzed using a Fyrite gas analyzer. Moisture was removed from the sample gas by means of a knockout jar located prior to the sample pump.

5.3 Flue Gas Moisture Content - EPA Method 4

The flue gas moisture content was determined in conjunction with each test run according to the sampling and analytical procedures outlined in EPA Method 4. Wet impinger sampling trains were used to withdraw and analyze the stack gas. The impingers were connected in series and contained water in the first two impingers followed by an empty impinger and then a silica gel impinger. The impingers were contained in an ice bath to assure condensation of the flue gas stream moisture. Any moisture that was not condensed in the impingers was captured in the silica gel; therefore, all moisture was weighed and entered into moisture content calculations.

5.4 Total Hydrocarbons – EPA Method 25A

Continuous emissions monitoring was conducted for volatile organic compounds. The sampling and analytical procedures for VOCs were conducted in accordance with EPA 25A. The CEM system consisted of a sample acquisition system, the THC emission monitor, and a data acquisition system (DAS). A California Analytical Model 300 flame ionization detector was used for the Method 25A tests.

The sample acquisition system included an in-stack probe, a heated out-of-stack glass mat filter for particulate matter removal, a heat-traced Teflon® sample line, a Teflon® heated-head pump, a moisture removal system, and a gas manifold board. All components of the sample acquisition system that contacted the sampled gas were constructed of Type 316 stainless steel or Teflon®. The sample gas was continuously extracted from a central point within the duct at a constant rate ($\pm 10\%$) for the duration of each test run. The wet, filtered gas was transported to a heated-head pump located at the CEM laboratory. The sample gas was sent directly to the VOC analyzer. Care was taken to ensure that the sample gas was greater than 220°F during transport from the stack to the VOC monitor. All pretest and posttest calibration procedures were performed as outlined in the applicable EPA Reference Methods.

Total organic hydrocarbon concentrations were measured on a wet basis using a California Analytical 300 FID continuous emission monitor. The THC concentrations were monitored on a propane (C₃) basis using a flame ionization detector (FID). The FID was fueled by a gas mixture

consisting of 40% helium and 60% hydrogen to reduce the effect of oxygen synergism. The THC analyzer was calibrated with a set of four gas standards. Calibration tests were performed prior to and following each test run.

Outputs from the individual emission monitors were connected to a computerized data acquisition system. Outputs from the analyzer were sent to a portable computer via a National Instruments™ FieldPoint controller. The signals were downloaded to a STRATA® software program every two seconds. The two-second readings were averaged for the duration of the test run.

Total mass emissions of VOCs were determined based on the Method 25A total hydrocarbon concentration data. The mass emissions were expressed on a pounds mass of carbon per hour.

5.5 Organic HAP Compounds – EPA Method 320

Testing for wet-basis organic HAP concentrations was conducted by extractive Fourier transform infrared (FTIR) spectroscopy using EPA Method 320 (40CFR, Part 63, Appendix A). Sample gas was continuously passed through the sampling system, which included an in-stack probe, a heated out-of-stack glass mat filter for particulate matter removal, a Teflon® heat-traced sample line, a MIDAC Fourier Transform Infrared (FTIR) spectrometer, a Teflon® heated-head pump, and a gas manifold board as shown in Figure 5-1. All components of the sample acquisition system that contacted the sampled gas were Type 316 stainless steel or Teflon®. All components of the sampling system and the FTIR cell were maintained at or above 120° C. Air Control Techniques, P.C. took great care to ensure that the sampling system contained no “cold spots” to prevent organic HAP loss. The sampling rate was maintained at greater than 10 liters per minute.

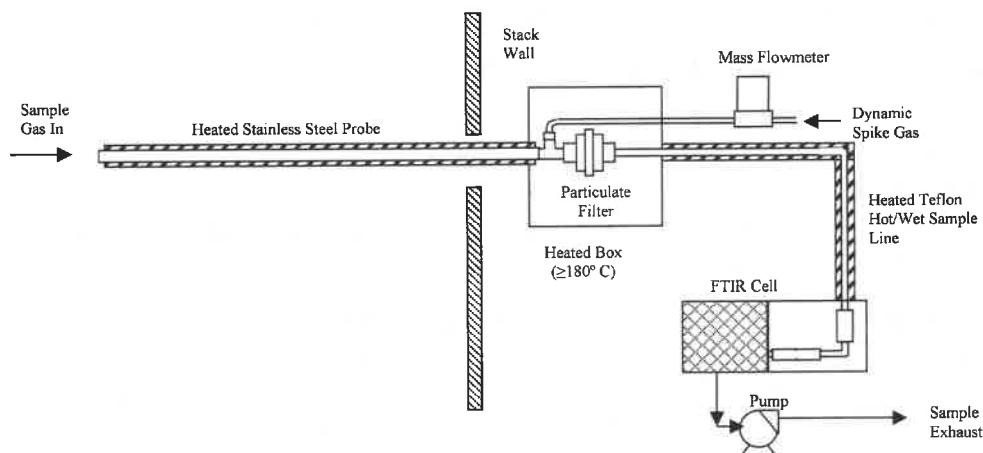


Figure 5-1. Method 320 Organic HAP Sampling System

The FTIR system included a MIDAC Corporation I-1301 spectrometer equipped with a heated, nominal 10-meter path absorption cell, a potassium bromide (KBr) beam splitter, zinc selenide (ZnSe) non-hygroscopic windows, and a liquid nitrogen-cooled Mercury Cadmium Telluride detector. Measurements were made using a MIDAC Model I-1301 high resolution Michelson interferometer with AutoQuant Pro software. Sample gas continuously passed through the sampling system, and sample spectra (based on 50 co-added interferograms) were recorded every

minute. The system's nominal spectral resolution was 0.5 cm^{-1} . Samples and standards were analyzed at temperatures greater than 120°C and near ambient pressures.

The inside walls of the cells were polished stainless steel to minimize interaction of the sample with the cell walls, and the cell mirrors were of bare gold. The gas pressure in the FTIR sample cell was monitored with a pressure transducer connected directly to the sample cell. The heated sample cell was wrapped in an insulating thermal jacket, and the temperature was controlled with type J thermocouples. The absorption cell volume was approximately 2 liters.

The FTIR system was operated via a portable computer, and a data archive storage system (USB Mass Storage Drive) was used for data backup. All interferograms, single beams, absorbance spectra, and background single beams were stored and have been archived. The filename, time, pressure and temperature of the sample cell, scan rate, background identification and other pertinent information was recorded by hand during the test program.

Air Control Techniques used the program AutoquantPro™ Version 4.5.0.195, (©Midac Corporation, 2012) to collect and analyze all the infrared field data. The program allows the development and storage of analytical "methods" for analysis of spectral data (absorbance) files. The reference spectra used for these analyses were developed by MIDAC Corporation, EPA, and Enthalpy Analytical, Inc. One "model" was developed for determining the absorption path length and one additional "method" for determining the concentrations of the target compounds for each source.

The concentration uncertainty reported by AutoquantPro is called the Standard Error of the Estimated Concentration, or SEC; it is also known as the Marginal Standard Deviation. The uncertainties in the concentration are proportional to the square root of the sums of the squares of the residual. After the residual spectrum is obtained, which we will call R, the error variance for the case of a single reference spectrum is calculated as follows.

$$\sigma^2 = \frac{\sum_i R_i^2}{(n-1)}$$

Where n is the number of observations. The SEC is given by the following.

$$SEC = \frac{\sigma C}{\sqrt{\sum_i A_i^2}}$$

Where A is the spectrum and C is the known concentration of the reference.

The 95% confidence interval is 1.96 times the SEC.

6. QUALITY ASSURANCE

6.1 Method 1 Quality Assurance

All S-type Pitot tubes used in this project conformed to EPA guidelines concerning construction and geometry. Pitot tubes were inspected prior to use. Information pertaining to S-type Pitot tubes is presented in detail in Section 3.1.1 of EPA Publication No. 600/4-77-027b. Only S-type Pitot tubes meeting the required EPA specifications were used in this project.

The thermocouples used in this project were calibrated using the procedures described in Section 3.4.2 of EPA Publication No. 600/4-77-027b. Each temperature sensor was calibrated at a minimum of three points over the anticipated range of use against NIST-traceable mercury in glass thermometer.

6.2 Method 4 Quality Assurance

Pretest and posttest leak checks were conducted on each Method 4 sampling train used. The observed leak rates for the sampling trains were below 0.02 actual cubic feet per minute as required by Method 4.

All dry gas meters were fully calibrated to determine the volume correction factor prior to field use. Post-tests calibration checks were performed as soon as possible after the equipment was returned to the laboratory. Pre-and post-test calibrations agreed within ± 5 percent. The calibration procedure is documented in Section 3.3.2 of EPA Publication No. 600/4-77-237b.

The scales used at the test location to determine flue gas moisture content were calibrated using a standard set of weights.

6.3 Method 25A Quality Assurance

At the beginning of the test day, a linearity calibration test was performed on each analyzer. The continuous emission monitoring instrument response did not differ by more ± 5 from the propane calibration standard. Linearity results for the test program are provided in Table 6-1 through 6-8.

Prior to and following each test run, a system calibration test was performed. The system test was performed to verify that the sampling system did not contain leaks (system bias) and to measure a change in analyzer response during the test program (system drift). The system bias was less than $\pm 5\%$ of full-scale, and system drift was less than $\pm 3\%$ of full scale. System calibration results for the test program are provided in Tables 6-1 through 6-8.

Table 6-1. Dryer Quality Assurance Results, Total Hydrocarbons, Method 25A				
Linearity Tests				
Parameter	Allowable	Test Series		
Zero, %	±5	0.1		
Low, %	±5	1.1		
Mid, %	±5	0.2		
High, %	±5	0.1		
System Tests				
Parameter	Allowable	Run 1	Run 2	Run 3
Zero Bias (Pre), %	±5	0.0	0.1	0.2
Zero Bias (Post), %	±5	0.1	0.2	0.2
Up-scale Bias (Pre), %	±5	0.0	0.0	0.1
Up-scale Bias (Post), %	±5	0.0	0.1	0.1
Zero Drift, %	±3	0.1	0.1	0.0
Up-scale Drift, %	±3	0.1	0.1	0.0
Response Time, sec	N/A	30		

Table 6-2. Dry Hammermill Quality Assurance Results, Total Hydrocarbons, Method 25A, Low Range					
Linearity Tests					
Parameter	Allowable	Test Series			
Zero, %	±5	0.1	0.1		
Low, %	±5	0.4	1.1		
Mid, %	±5	0.5	1.0		
High, %	±5	0.3	0.5		
System Tests					
Parameter	Allowable	Run 1	Run 2	Run 3	Run 4
Zero Bias (Pre), %	±5	0	0	-0.2	0.0
Zero Bias (Post), %	±5	0.1	-0.2	0.0	0.0
Up-scale Bias (Pre), %	±5	0.0	0.0	0.3	0.2
Up-scale Bias (Post), %	±5	0.3	0.3	0.2	0.1
Zero Drift, %	±3	0.1	-0.2	0.2	0.0
Up-scale Drift, %	±3	0.3	0.3	-0.1	0.0
Response Time, sec	N/A	30			

Table 6-3. Dry Hammermill Quality Assurance Results, Total Hydrocarbons, Method 25A, High Range					
Linearity Tests					
Parameter	Allowable	Test Series			
Zero, %	±5	0.0	0.0		
Low, %	±5	0.2	0.3		
Mid, %	±5	0.1	0.2		
High, %	±5	0.0	0.0		
System Tests					
Parameter	Allowable	Run 1	Run 2	Run 3	Run 4
Zero Bias (Pre), %	±5	0.0	0.0	0.0	0.0
Zero Bias (Post), %	±5	0.0	0.0	0.0	0.0
Up-scale Bias (Pre), %	±5	0.0	0.0	0.1	0.0
Up-scale Bias (Post), %	±5	0.0	0.1	0.0	0.0
Zero Drift, %	±3	0.0	0.0	0.0	0.0
Up-scale Drift, %	±3	0.0	0.1	-0.1	0.0
Response Time, sec	N/A	30			

Table 6-4. Aspiration System Quality Assurance Results, Total Hydrocarbons, Method 25A				
Linearity Tests				
Parameter	Allowable	Test Series		
Zero, %	±5	0.0		
Low, %	±5	0.3		
Mid, %	±5	-0.2		
High, %	±5	0.0		
System Tests				
Parameter	Allowable	Run 1	Run 2	Run 3
Zero Bias (Pre), %	±5	0.0	0.1	0.1
Zero Bias (Post), %	±5	0.1	0.1	0.1
Up-scale Bias (Pre), %	±5	0.0	0.1	0.2
Up-scale Bias (Post), %	±5	0.1	0.2	0.2
Zero Drift, %	±3	0.1	0.0	0.0
Up-scale Drift, %	±3	0.1	0.0	0.0
Response Time, sec	N/A	30		

Table 6-5. Green Hammermill Quality Assurance Results, Total Hydrocarbons, Method 25A				
Linearity Tests				
Parameter	Allowable	Test Series		
Zero, %	±8	0.1		
Low, %	±8	-1.2		
Mid, %	±8	0.0		
High, %	±8	0.1		
System Tests				
Parameter	Allowable	Run 1	Run 2	Run 3
Zero Bias (Pre), %	±5	0.0	0.0	-0.2
Zero Bias (Post), %	±5	0.0	-0.2	-0.1
Up-scale Bias (Pre), %	±5	0.0	0.1	0.5
Up-scale Bias (Post), %	±5	0.1	0.5	0.3
Zero Drift, %	±3	0.0	-0.2	0.1
Up-scale Drift, %	±3	0.1	0.5	-0.3
Response Time, sec	N/A	30		

6.4 Method 320 Quality Assurance

Air Control Techniques, P.C. performed daily quality assurance checks. Background scans and calibration transfer standard (CTS) spectra tests were performed prior to and following each test series. An analyte spike was performed using methanol.

The flow rate at the outlet of the pump was measured while the probe was plugged to verify that the sampling system was leak free. The flow rate was less than 200 ml/min.

The FTIR cell was tested for leaks by closing the valve while the cell was at minimum absolute pressure.

Background Spectra

Sample spectra were divided point-by-point by a 128-scan background recorded using N₂. The single beam spectrum was constantly monitored, and a new background was generated following each test series or when residual and absorbance spectra indicated component build-up on the optical surfaces or alignment-related baseline shifts.

Calibration Transfer Standards and Absorption Path Lengths

A cylinder of 100 ppm ethylene in nitrogen served as the CTS. A CTS gas was introduced to the FTIR and allowed to reach steady state. The CTS was used to determine effective cell path length based on comparisons of the “field” CTS spectra to a laboratory CTS spectrum recorded by MIDAC. As shown in Table 6-6, the maximum path length deviation was less than 5% of the average.

Date	Time	CTS Scan (pathlength)	SEC (ppm)	Cell Press. (psi)	Cell Temp (°C)	Deviation from Previous	Deviation from Average
14-Oct	1215	8.693	0.133	14.75	121	-0.2%	-0.2%
	1923	8.685	0.133	14.77	121	-0.1%	-0.1%
15-Oct	750	8.659	0.132	14.19	121	0.2%	0.2%
	1311	8.705	0.134	14.62	121	-0.4%	-0.4%
	1627	8.739	0.133	14.6	121	-0.7%	-0.7%
	2115	8.673	0.132	14.6	121	0.0%	0.0%
16-Oct	0830	8.614	0.134	14.81	121	0.7%	0.7%
	1510	8.624	0.132	14.77	121	0.6%	0.6%
Average		8.674	0.133			Maximum	-0.7%

Background Spectra

On-site test personnel performed matrix spiking using a certified calibration standard of methanol and SF₆. The methanol gas standard was introduced into the sampling system upstream of the particulate matter filter at an average dilution ratio of less than 10% of the total sample volume. Analyte spiking was performed to demonstrate the suitability of the sampling system. The dilution factor was calculated based on the ratio of the SF₆ tracer gas analyzed directly by the FTIR and the in-stack measured concentration.

$$\frac{SF_6 \text{ during spike}}{SF_6 \text{ direct}} = DF$$

The recovery was calculated using the mean concentration of the spiked analyte (S_m), the native concentration of the analyte in the stack (S_u), the dilution factor (DF), and the cylinder concentration (C_s).

$$\text{Recovery}(\%) = \frac{S_m - S_u (1 - DF)}{DF \times C_s}$$

As shown in Table 6-7, the percent recovery was 100±30% as required by Method 320.

Direct Cylinder Spike, ppm		System Spiked Gas, ppm		Native Concentration, ppm		Recovery, %
methanol	SF ₆	methanol	SF ₆	methanol	SF ₆	
102.30	2.86	9.000	0.224	2.017	0.012769	94.5

Minimum Detectable Concentration

EPA Method 320 and the equivalent ASTM Standard D6348-03 specify a number of analytical uncertainty parameters that the analyst may calculate to characterize the FTIR system performance.

QA Review

Before the test program began, an analysis of possible analytical interferents (e.g., H₂O, CO₂, CO, pinenes) was conducted. Analytical wavelengths were determined to minimize analytical uncertainty and detection limits using reference spectra and the FTIR instrument that was used for the field testing.

At the conclusion of the testing, a quality assurance review of the test data was performed. This review included examination of the sample spectra and the quantitative analytical results. It also included spot-checking the analysis results by hand. These examinations included visual comparisons of the sample and reference spectra.

7. PROCESS DOCUMENTATION

Enviva Pellets Amory, LLC personnel logged the following process data during each test run of each process unit.

- Throughput in tons per hour (all process units)
- Inlet temperature (dryer)
- Outlet temperature (dryer)
- Cyclone static pressure drop (dryer, hammermill, presses)
- Wood feed % softwood content

8. REFERENCES

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APPENDIX A

Moisture and Gas Flow Rate Data

Air Control Techniques, PC: Emissions Calculations
 Job # 1909

Envia	PARAMETER	Amory	Dryer 1	Dryer 2	Dryer 3	Green Hammermill 4	Green Hammermill 5	Green Hammermill 6
	NOMENCLATURE		10/14/2013	10/14/2013	10/14/2013	10/15/2013	10/15/2013	10/15/2013
	Sampling Location		Dryer	Dryer	Dryer	Green Hammermill	Green Hammermill	Green Hammermill
Date			10/14/2013	10/14/2013	10/14/2013	10/15/2013	10/15/2013	10/15/2013
Run Time	θ		60	60	60	60	60	60
Nozzle Diameter	inches		N/A	N/A	N/A	N/A	N/A	N/A
Stack Area	As - sq. ft.		12.6	12.6	12.6	1.767	1.767	1.767
Pitot Tube Coefficient	Cp		0.84	0.84	0.84	0.84	0.84	0.84
Meter Calibration Factor	Y		0.9828	0.9828	0.9828	0.9828	0.9828	0.9828
Barometric Pressure, inches Hg	Bp - in Hg		29.80	29.80	29.80	29.80	29.80	29.80
Static Pressure	Pg - in. H ₂ O		-2.6	-2.6	-2.6	3.6	3.6	3.6
Stack Pressure	Ps		29.61	29.61	29.61	30.06	30.06	30.06
Meter Box Pressure Differential	Δ H - in. H ₂ O		1.00	1.00	1.00	1.00	1.00	1.00
Average Velocity Head	Δ p - in. H ₂ O		2.104	2.111	2.034	4.082	4.132	4.086
Volume of Gas Sampled	Vm - cu. ft.		30.692	35.129	31.084	32.963	34.696	33.800
Dry Gas Meter Temperature	Tm - °F		91.5	93.5	88.0	68.8	76.0	79.8
Stack Temperature	Ts - °F		199.6	189.6	187.8	87.4	87.5	88.4
Liquid Collected	grams		83.8	91.9	85.5	15.8	21.4	26
Carbon Dioxide	% CO ₂		2	1.5	2	0	0	0
Oxygen	% O ₂		19	19.5	19	20.9	20.9	20.9
Carbon Monoxide	% CO		0	0	0	0	0	0
Nitrogen	% N ₂		79	79	79	79.1	79.1	79.1
Volume of Gas Sampled, Dry	Vmstd - cu. ft.		28.834	32.883	29.389	32.300	33.538	32.445
Volume of Water Vapor	Vwstd - cu. ft.		3.951	4.333	4.031	0.745	1.009	1.226
Moisture Content	% H ₂ O		12.05	11.64	12.06	2.25	2.92	3.64
Saturation Moisture	% H ₂ O		78.5	63.5	61.2	4.4	4.4	4.5
Dry Mole Fraction	Mfd		0.879	0.884	0.879	0.977	0.971	0.964
Gas Molecular Weight, Dry	Md		29.08	29.02	29.08	28.84	28.84	28.84
Gas Molecular Weight, Wet	Ms		27.74	27.74	27.74	28.59	28.52	28.44
Gas Velocity	vs - ft./sec.		93.35	92.80	90.96	115.79	116.64	116.25
Volumetric Air Flow, Actual	Qaw - ACFM		70,382	69,968	68,582	12,277	12,367	12,326
Volumetric Air Flow, Standard	Qsd - DSCFM		49,036	49,728	48,642	11,630	11,634	11,490

Method 1 - Air Control Techniques, P.C.

Date

10/14/2013

Client	ENVIVA
Job #	1909
Plant Name	Amory
State	Mississippi
City	Amory
Sampling Location	Dryer
No. of Ports Available	2
No. of Ports Used	2
Port Inside Diameter, inches	1.5
Distance From Far Wall To Outside Of Port, inches	50
Nipple Length And/Or Wall Thickness, inches	2
Depth Of Stack Or Duct, inches	48
Stack Or Duct Width (if rectangular), inches	48
Equiv. Diameter = 2DW(D+W), inches	12.57
Stack/Duct Area, Square Feet	
(□ x R ² or L x W)	
Distance to Flow Disturbances, inches	Upstream 342
Diameters	Downstream 126
	7.13
	2.63

Point	% of Duct Depth	Distance From	
		Inside Wall	Outside of Port
1	4.4	2 1/8	4 1/8
2	14.6	7	9
3	29.6	14 2/8	16 2/8
4	70.4	35 6/8	35 6/8
5	85.4	41	43
6	95.6	45 7/8	47 7/8
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			

Velocity	Diameters					Particulate
	UP	8	Down	2	12	
12						
12						
12						
16						
16						
20						
24 or 25						

Note: If more than 8 and 2 diameters and if duct dia is less than 24" use 8 or 9 ports.

Point	Location of Points in Circular Stacks or Ducts											
	4	6	8	10	12	14	16	18	20	22	24	
1	6.7	4.4	3.2	2.6	2.1	1.8	1.6	1.4	1.3	1.1	1.1	
2	25.0	14.6	10.6	8.2	6.7	5.7	4.9	4.4	3.9	3.5	3.2	
3	75.0	29.6	19.4	14.6	11.6	9.8	8.5	7.5	6.7	6.0	5.5	
4	85.3	70.4	32.3	22.6	17.7	14.6	12.5	10.9	9.7	8.7	7.9	
5		85.4	67.7	34.2	25.0	20.1	18.9	14.6	12.9	11.6	10.5	
6		95.6	80.6	66.6	35.5	28.9	22.0	18.8	16.5	14.6	13.2	
7			88.5	77.4	64.4	36.6	28.3	23.9	20.4	18.0	16.1	
8			95.5	85.4	75.0	63.4	37.5	29.6	25.9	21.8	19.4	
9				91.8	82.3	73.1	62.5	30.6	26.2	23.0	21.0	
10				97.4	88.2	78.9	71.7	61.8	38.6	31.5	27.2	
11					93.3	85.4	76.0	70.4	51.2	39.3	32.3	
12						97.9	89.1	83.1	60.7	39.9	33.9	
13						94.3	87.6	81.2	71.0	65.5	60.2	
14						99.2	91.5	85.4	79.6	73.6	67.7	
15							89.1	83.1	82.0	76.2	72.6	
16							93.4	87.1	82.0	77.0	73.0	
17								95.6	90.3	85.4	80.6	
18								96.6	93.3	89.4	83.9	
19									96.1	91.3	85.9	
20										98.7	94.0	
21											96.5	
22											98.9	
23											94.5	
24											98.9	

Point	Location of Points in Rectangular Stacks or Ducts											
	2	3	4	5	6	7	8	9	10	11	12	
1	16.7	12.5	10.0	8.3	7.1	6.3	5.6	5.0	4.5	4.2	4.0	
2	75	50	37.5	30.0	25	21.4	18.8	16.7	15.0	13.6	12.5	
3	83.3	62.5	50.0	41.7	35.7	31.3	27.8	25.0	22.7	20.8	20.8	
4		87.5	70.0	58.3	50	43.8	38.9	35.0	31.8	29.2	29.2	
5			90.0	75	64.3	56.3	50	45.0	40.9	37.5	37.5	
6				91.7	78.8	68.8	61.1	55.0	50	45.8	45.8	
7					82.3	72.2	65.0	59.1	54.2	50.2	50.2	
8						85.8	77.2	70.0	64.2	60.2	60.2	
9							84.4	77.3	71.3	66.2	66.2	
10								85.0	79.0	73.0	73.0	
11									85.5	79.5	74.5	
12										85.8	80.8	

- 0.0000 - 0.0625 - 0
- 0.0625 - 0.1875 - 1/8
- 0.1875 - 0.3125 - 1/4
- 0.3125 - 0.4375 - 3/8
- 0.4375 - 0.5625 - 1/2
- 0.5625 - 0.6875 - 5/8
- 0.6875 - 0.8125 - 3/4
- 0.8125 - 0.9375 - 7/8
- 0.9375 - 1.0000 - 1

Dryer Run 1

Air Control Techniques EPA Method 2 Data Sheet			ACT Job Number	1909
Client	Enviva		ACT Run Number	1
Plant	Amory		Date	10/14/2013
City/State	Amory, MS		Gauge ID	909033
Location	Dryer		Pitot ID	4Pext
Averages	2.104	199.6	Thermocouple ID	TC25
Point No.	Delta P In Water	Temp Deg F	Angle	
A-1	2.700	195	-3	Oxygen % 19
2	2.900	200	-2	Carbon Dioxide % 2
3	2.800	202	0	Moisture % 12.05172839
4	2.800	201	-3	Stack Area sq.in. 1809.557395
5	1.300	200	0	Pbar 29.80
6	0.980	198	0	Static Pressure -2.6
B-1	1.300	201	-4	Pitot Coef. 0.84
2	1.100	198	-2	Start Time 1428
3	1.900	200	3	Stop Time 1434
4	3.000	200	0	
5	2.800	200	4	
6	2.600	200	2	
			Absolute Gas Pressure inches water	Ps = 29.61
			Dry Mole Fraction of Gas	Mfd = 0.87948
			Dry Molecular Weight of Gas lb/lb Mole	Md = 29.08
			Wet Molecular Weight of Gas lb/lb Mole	Ms = 27.74
			Average Gas Velocity ft/sec	vs = 93.35
			Dry Volumetric Gas Flow Rate at Standard Conditions SCFM	Qsd = 49036
			Wet Volumetric Flue Gas Flow Rate at Stack Conditions ACFM	Qaw = 70382
			Wet Volumetric Gas Flow Rate at Standard Conditions WSCFH	WSCFH = 3345299
			LKCH	
			Pre	3-4 good
			Post	5-3 good

Method 1 - Air Control Techniques, P.C.

Date

10/14/2013

Client	ENVIVA
Job #	1909
Plant Name	ANNOTY
State	Mississippi
City	ANNOCY
Sampling Location	Dry Hammertmill Bathroom
No. of Ports Available	2
No. of Ports Used	2
Port Inside Diameter, inches	2
Distance From Far Wall To Outside Of Port, inches	38
Nipple Length And/Or Wall Thickness, inches	0
Depth Of Stack Or Duct, inches	38
Stack Or Duct Width (if rectangular) inches	
Equip. Diameter = 2D(WID+W), inches	38
Stack/Duct Area, Square Feet	7.9
(□ x R ² or L x W)	
Distance to Flow Disturbances, inches	Upstream 120 Downstream 60
Diameters	3.16 1.58

Point	% of Duct Depth	Distance From	
		Inside Wall	Outside of Port
1	3.2	1 2/8	1 2/8
2	10.6	4	4
3	19.4	7 3/8	7 3/8
4	32.3	12 2/8	12 2/8
5	67.7	25 6/8	25 6/8
6	80.6	30 5/8	30 5/8
7	89.5	34	34
8	96.8	36 6/8	36 6/8
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			

Velocity	Diameters			
	UP	Down	2	Particulate
12				
12	7	1.75		
12	6	1.5		
16	5	1.25		
20	2	0.5		
16				24 or 25

Point	Location of Points in Circular Stacks or Ducts											
	4	6	8	10	12	14	16	18	20	22	24	25
1	6.7	4.4	3.2	2.6	2.1	1.8	1.6	1.4	1.3	1.1		
2	25.0	14.6	10.6	8.2	6.7	5.7	4.8	4.4	3.9	3.5		
3	75.0	29.6	19.4	14.6	11.6	9.9	8.5	7.5	6.7	6.0		
4	83.3	70.4	32.3	22.6	17.7	14.8	12.5	10.9	9.7	8.7		
5		85.4	67.7	54.2	35.0	29.1	18.9	14.8	12.9	11.6		
6		89.5	69.6	55.6	35.6	29.8	22.0	18.8	16.5	14.6		
7			88.5	77.4	64.4	38.6	28.3	23.6	20.4	16.0		
8			96.8	85.4	75.0	63.4	37.5	28.6	25.0	21.8		
9				91.8	82.3	73.1	62.5	38.2	30.6	26.2		
10				97.4	88.2	79.9	71.7	61.6	58.8	51.5		
11					85.4	78.0	70.4	61.2	61.2	38.3		
12					97.9	90.1	83.1	76.4	69.4	60.7		
13					94.3	87.6	81.2	75.0	68.5	60.2		
14					98.2	91.5	85.4	79.6	73.8	67.7		
15						89.1	83.5	79.2	72.8			
16						98.4	92.5	87.1	82.0	77.0		
17							55.6	50.3	45.4	40.6		
18							98.6	93.3	88.4	83.9		
19								96.1	91.3	86.8		
20								96.7	94.0	89.5		
21									96.5	92.1		
22									98.9	94.5		
23										96.8		
24											96.6	

Point	Location of Points in Rectangular Stacks or Ducts											
	2	3	4	5	6	7	8	9	10	11	12	
1	25	18.7	12.5	10.0	8.3	7.1	6.3	5.6	5.0	4.5	4.2	
2	75	50	37.5	30.0	25	21.4	18.8	16.7	15.0	13.6	12.5	
3		83.3	62.5	50.0	41.7	35.7	31.3	27.8	25.0	22.7	20.8	
4			97.5	70.0	58.3	50	43.8	38.9	35.0	31.8	29.2	
5				80.0	75	64.3	56.2	50	45.0	40.9	37.5	
6					91.7	78.6	68.8	61.1	55.0	50	45.8	
7						92.8	81.3	72.2	65.0	59.1	54.2	
8							83.8	75.0	68.2	62.5	57.3	
9								94.4	85.0	77.3	70.8	
10									95.0	86.4	79.2	
11										96.5	87.5	
12											95.8	

0.0000 - 0.0625 - 0 0.5625 - 0.6875 - 5/8
 0.0625 - 0.1875 - 1/8 0.6875 - 0.8125 - 3/4
 0.1875 - 0.3125 - 1/4 0.8125 - 0.9375 - 7/8
 0.3125 - 0.4375 - 3/8 0.9375 - 1.0000 - 1
 0.4375 - 0.5625 - 1/2

DHM Run 2

Air Control Techniques EPA Method 2 Data Sheet			ACT Job Number	1909	
Client	Enviva	ACT Run Number			11
Plant	Amory	Date	10/16/2013		
City/State	Amory, MS	Gauge ID	909033		
Location	Dry Hammermill Baghouse		Pitot ID	4Pext	
Averages	0.483	88.6	Thermocouple ID	TC25	
Point No.	Delta P In Water	Temp Deg F	Oxygen %	20.9	
A-1	0.450	87	Carbon Dioxide %	0	
2	0.470	88	Moisture %	2.89	
3	0.510	88	Stack Area sq.in.	1134.114965	
4	0.530	88	Pbar	29.70	
5	0.520	88	Static Pressure	-0.4	
6	0.520	88	Pitot Coef.	0.84	
7	0.480	88	Start Time	1045	
8	0.450	87	Stop Time	1052	
B-1	0.230	87			
2	0.270	89			
3	0.320	91			
4	0.520	91			
5	0.610	90			
6	0.650	90			
7	0.680	89			
8	0.660	89			
0					
0					
0			Absolute Gas Pressure inches water	Ps = 29.67	
0			Dry Mole Fraction of Gas	Mfd = 0.97112	
0			Dry Molecular Weight of Gas lb/lb Mole	Md = 28.84	
0			Wet Molecular Weight of Gas lb/lb Mole	Ms = 28.52	
0			Average Gas Velocity ft/sec	vs = 40.17	
0			Dry Volumetric Gas Flow Rate at Standard Conditions SCFM	Qsd = 17591	
0			Wet Volumetric Flue Gas Flow Rate at Stack Conditions ACFM	Qaw = 18980	
0			Wet Volumetric Gas Flow Rate at Standard Conditions WSCFH	WSCFH = 1086846	
0					
0			LKCH		
0			Pre	3-4 good	
0			Post	5-3 good	
0					
0					

DHM Run 3

Air Control Techniques EPA Method 2 Data Sheet			ACT Job Number	1909
Client	Enviva		ACT Run Number	12
Plant	Amory		Date	10/16/2013
City/State	Amory, MS		Gauge ID	909033
Location	Dry Hammermill Baghouse		Pitot ID	4Pext
Averages	0.500	93.8	Thermocouple ID	TC25
Point No.	Delta P In Water	Temp Deg F		
A-1	0.560	91	Oxygen % 20.9	
2	0.600	93	Carbon Dioxide % 0	
3	0.600	94	Moisture % 3.40	
4	0.610	95	Stack Area sq.in. 0	
5	0.550	95	Pbar 29.70	
6	0.480	95	Static Pressure -0.4	
7	0.410	94	Pitot Coef. 0.84	
8	0.320	87	Start Time 1155	
B-1	0.280	91	Stop Time 1204	
2	0.310	94	Absolute Gas Pressure inches water Ps = 29.67	
3	0.330	95	Dry Mole Fraction of Gas Mfd = 0.96601	
4	0.430	95	Dry Molecular Weight of Gas lb/lb Mole Md = 28.84	
5	0.520	95	Wet Molecular Weight of Gas lb/lb Mole Ms = 28.47	
6	0.680	95	Average Gas Velocity ft/sec vs = 41.11	
7	0.740	95	Dry Volumetric Gas Flow Rate at Standard Conditions SCFM Qsd = 0	
8	0.760	96	Wet Volumetric Flue Gas Flow Rate at Stack Conditions ACFM Qaw = 0	
0			Wet Volumetric Gas Flow Rate at Standard Conditions WSCFH WSCFH = 0	
0			LKCH	
0			Pre	3-4 good
0			Post	5-3 good
0				
0				

DHM Run 4

Air Control Techniques EPA Method 2 Data Sheet			ACT Job Number	1909
Client	Enviva		ACT Run Number	13
Plant	Amory		Date	10/16/2013
City/State	Amory, MS		Gauge ID	909033
Location	Dry Hammermill Baghouse		Pitot ID	4Pext
Averages	0.491	96.1	Thermocouple ID	TC25
	Delta P	Temp		
Point No.	In Water	Deg F		
A-1	0.520	95	Oxygen %	20.9
2	0.490	96	Carbon Dioxide %	0
3	0.480	96	Moisture %	4.25
4	0.440	97	Stack Area sq.in.	1134.114965
5	0.480	97	Pbar	29.70
6	0.440	97	Static Pressure	-0.4
7	0.380	94	Pitot Coef.	0.84
8	0.633	91	Start Time	1310
B-1	0.340	93	Stop Time	
2	0.380	95		
3	0.390	97		
4	0.420	97		
5	0.570	98		
6	0.660	98		
7	0.680	98		
8	0.640	98		
0				
0				
0			Absolute Gas Pressure inches water	Ps = 29.67
0			Dry Mole Fraction of Gas	Mfd = 0.95754
0			Dry Molecular Weight of Gas lb/lb Mole	Md = 28.84
0			Wet Molecular Weight of Gas lb/lb Mole	Ms = 28.38
0			Average Gas Velocity ft/sec	vs = 40.89
0			Dry Volumetric Gas Flow Rate at Standard Conditions SCFM	Qsd = 17421
0			Wet Volumetric Flue Gas Flow Rate at Stack Conditions ACFM	Qaw = 19321
0			Wet Volumetric Gas Flow Rate at Standard Conditions WSCFH	WSCFH = 1091591
0				
0			LKCH	
0			Pre	3-4 good
0			Post	5-3 good
0				
0				

Method 1 - Air Control Techniques, P.C.

Date 10/14/2013

Client: Enviva	
Job #	1909
Plant Name	Amory
State	Mississippi
City	Amory
Sampling Location	Pellet Mill 2 Cooler
No. of Ports Available	2
No. of Ports Used	2
Port Inside Diameter, inches	24
Distance From Far Wall To Outside Of Port, inches	0
Nipple Length And/Or Wall Thickness, inches	24
Depth Of Stack Or Duct, inches	24
Stack Or Duct Width (if rectangular), inches	24
Equiv. Diameter = 2DW(D+W), inches	3.1
Stack/Duct Area, Square Feet	
(□ x R ² or L x W)	
Distance to Flow Disturbances, inches	Upstream 7.0 Downstream 3.0
Diameters	2.92 1.25

Velocity	Diameters	
	Up	Down
12	8	2
12	7	1.75
12	6	1.5
16	5	1.25
16	2	0.5
24 or 25		
24		

Note: If more than 6 and 2 diameters and if duct dia. is less than 24" use 8 or 9 points.

Location of Points in Circular Stacks or Ducts												
	4	6	8	10	12	14	16	18	20	22	24	
1	6.7	4.4	3.2	2.6	2.1	1.8	1.8	1.8	1.4	1.3	1.1	24
2	25.0	14.6	10.8	8.2	6.7	5.7	4.9	4.4	3.9	3.5	3.2	1.1
3	75.0	28.6	19.4	14.6	11.8	9.9	8.5	7.5	6.7	6.0	5.5	3.2
4	93.3	70.4	33.3	22.6	17.7	14.8	12.5	10.8	8.7	8.7	7.9	5.5
5	65.4	65.4	67.7	34.2	25.0	20.1	16.9	14.8	12.9	11.6	10.5	7.9
6	95.6	95.6	95.6	65.8	55.8	28.9	22.0	18.8	16.5	14.8	13.2	10.5
7	86.5	77.4	64.4	39.8	28.3	20.4	16.1	14.8	13.2	11.6	10.5	7.9
8	96.8	85.4	64.4	39.8	28.3	20.4	16.1	14.8	13.2	11.6	10.5	7.9
9	91.8	62.3	73.1	62.5	30.6	26.2	23.0	21.8	19.4	18.4	16.1	14.8
10	66.2	79.9	71.7	61.8	38.8	31.5	27.2	25.0	23.0	21.8	19.4	18.4
11	82.3	85.4	78.0	70.4	61.2	50.4	40.7	39.3	37.3	35.3	33.3	31.3
12	97.6	90.1	83.1	76.4	68.4	60.7	53.8	46.9	40.7	39.3	37.3	35.3
13	94.3	87.6	81.2	75.0	68.5	62.0	55.5	49.0	42.5	41.1	39.7	38.3
14	96.2	89.2	82.5	76.0	69.5	63.0	56.5	50.0	43.5	42.1	40.7	39.3
15	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
16	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
17	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
18	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
19	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
20	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
21	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
22	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
23	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
24	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4

Location of Points in Rectangular Stacks or Ducts												
	2	3	4	5	6	7	8	9	10	11	12	
1	25	16.7	12.5	10.0	8.3	7.1	6.3	5.6	5.0	4.5	4.2	24
2	75	50	37.5	30.0	25	21.4	18.8	16.7	15.0	13.6	12.5	4.2
3	83.3	63.3	42.5	30.0	22.5	18.8	16.7	15.0	13.6	12.5	11.6	4.2
4	87.5	67.5	47.5	35.0	27.5	22.5	20.0	18.0	16.5	15.0	13.6	12.5
5	90.0	70.0	50.0	40.0	32.5	27.5	25.0	23.0	21.5	20.0	18.5	17.0
6	90.0	70.0	50.0	40.0	32.5	27.5	25.0	23.0	21.5	20.0	18.5	17.0
7	91.7	71.7	51.7	41.7	34.2	29.2	26.7	24.7	23.2	21.7	20.2	18.7
8	92.8	72.8	52.8	42.8	35.5	30.5	28.0	26.0	24.5	23.0	21.5	20.0
9	93.8	73.8	53.8	43.8	36.8	31.8	29.3	27.3	25.8	24.3	22.8	21.3
10	94.8	74.8	54.8	44.8	38.1	33.1	30.6	28.6	27.1	25.6	24.1	22.6
11	95.8	75.8	55.8	45.8	39.4	34.4	31.9	29.9	28.4	26.9	25.4	23.9
12	96.8	76.8	56.8	46.8	40.7	35.7	33.2	31.2	29.7	28.2	26.7	25.2

2 diff nipples probe marked to inside of port

Point	% of Duct Depth	Distance From Inside Wall	Distance From Outside of Port
1	3.2	6/8	6/8
2	10.6	2 4/8	2 4/8
3	19.4	4 5/8	4 5/8
4	32.3	7 6/8	7 6/8
5	67.7	16 2/8	16 2/8
6	80.6	19 3/8	19 3/8
7	89.5	21 4/8	21 4/8
8	96.8	23 2/8	23 2/8
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			

Too Close

1

23

- 0.0000 - 0.0625 - 0
- 0.0625 - 0.1875 - 1/8
- 0.1875 - 0.3125 - 1/4
- 0.3125 - 0.4375 - 3/8
- 0.4375 - 0.5625 - 1/2
- 0.5625 - 0.6875 - 5/8
- 0.6875 - 0.8125 - 3/4
- 0.8125 - 0.9375 - 7/8
- 0.9375 - 1.0000 - 1

PMC Run 1

Air Control Techniques EPA Method 2 Data Sheet				ACT Job Number	1909
Client	Enviva			ACT Run Number	8
Plant	Amory			Date	10/15/2013
City/State	Amory, MS			Gauge ID	909033
Location	Pellet Mill 2 Cooler			Pitot ID	4Pext
Averages	1.529	138.9		Thermocouple ID	TC25
	Delta P	Temp			
Point No.	In Water	Deg F	Angle		
A-1	1.600	139	-5	Oxygen %	20.9
2	1.600	139	0	Carbon Dioxide %	0
3	1.500	139	0	Moisture %	7.73
4	1.300	139	0	Stack Area sq.in.	452.3893488
5	1.300	140	-10	Pbar	29.80
6	1.600	139	-2	Static Pressure	-13.5
7	1.500	135	-5	Pitot Coef.	0.84
8	1.600	135	0	Start Time	1650
B-1	1.500	137	0	Stop Time	1702
2	1.500	138	-5		
3	1.400	139	-3		
4	1.400	140	4		
5	1.700	140	2		
6	1.700	141	3		
7	1.700	141	6		
8	1.600	142	5		
0					
0					
0				Absolute Gas Pressure inches water	Ps = 28.81
0				Dry Mole Fraction of Gas	Mfd = 0.92267
0				Dry Molecular Weight of Gas lb/lb Mole	Md = 28.84
0				Wet Molecular Weight of Gas lb/lb Mole	Ms = 28.00
0				Average Gas Velocity ft/sec	vs = 76.51
0				Dry Volumetric Gas Flow Rate at Standard Conditions SCFM	Qsd = 11294
0				Wet Volumetric Flue Gas Flow Rate at Stack Conditions ACFM	Qaw = 14422
0				Wet Volumetric Gas Flow Rate at Standard Conditions WSCFH	WSCFH = 734451
0				LKCH	
0				Pre	3-4 good
0				Post	5-3 good
0					
0					

PMC Run 3

Air Control Techniques EPA Method 2 Data Sheet			ACT Job Number	1909
Client	Enviva		ACT Run Number	10
Plant	Amory		Date	10/15/2013
City/State	Amory, MS		Gauge ID	909033
Location	Pellet Mill 2 Cooler		Pitot ID	4Pext
Averages			Thermocouple ID	TC25
	1.539	138.6		
	Delta P	Temp		
Point No.	In Water	Deg F		
A-1	1.700	137	Oxygen %	20.9
2	1.700	138	Carbon Dioxide %	0
3	1.600	139	Moisture %	8.08
4	1.400	140	Stack Area sq.in.	452.3893488
5	1.400	138	Pbar	29.80
6	1.600	137	Static Pressure	-13.5
7	2.100	136	Pitot Coef.	0.84
8	1.800	135	Start Time	1952
B-1	1.800	137	Stop Time	1956
2	1.900	138		
3	1.400	139		
4	1.100	140		
5	1.300	140		
6	1.400	141		
7	1.300	141		
8	1.300	141		
0				
0				
0			Absolute Gas Pressure inches water	Ps = 28.81
0			Dry Mole Fraction of Gas	Mfd = 0.91917
0			Dry Molecular Weight of Gas lb/lb Mole	Md = 28.84
0			Wet Molecular Weight of Gas lb/lb Mole	Ms = 27.96
0			Average Gas Velocity ft/sec	vs = 76.80
0			Dry Volumetric Gas Flow Rate at Standard Conditions SCFM	Qsd = 11302
0			Wet Volumetric Flue Gas Flow Rate at Stack Conditions ACFM	Qaw = 14477
0			Wet Volumetric Gas Flow Rate at Standard Conditions WSCFH	WSCFH = 737732
0				
0			LKCH	
0			Pre	3-4 good
0			Post	5-3 good
0				
0				

Method 1 - Air Control Techniques, P.C.

Date 10/14/2013

Client: Enviva
 Job #: 1909
 Plant Name: Amory
 State: Mississippi
 City: Amory
 Sampling Location: Green Hammernill

No. of Ports Available: 2
 No. of Ports Used: 2
 Port Inside Diameter, inches: 2
 Distance From Fan Wall To Outside Of Port, Inches: 18
 Nipple Length And/O: Wall Thickness, Inches: 0
 Depth Of Stack Or Duct, Inches: 18
 Stack Or Duct Width (if rectangular), Inches: 18
 Equiv. Diameter = 2D_W/(D+W), inches: 1.8
 Stack/Duct Area, Square feet: 1.8
 (□ x R² or L x W)
 Distance to Flow Disturbances, inches: 37.5 Upstream 11.5 Downstream
 Diameters: 2.08 0.64

Velocity	Diameters		Down	Particulate
	UP	8		
12	7	2	2	12
12	6	1.75	7	12
16	5	1.5	1.25	16
16	2	0.5	0.5	24 or 25

Note: If more than 8 and 2 diameters and if duct dia. is less than 24" use 8 or 9 points

Location of Points in Circular Stacks or Ducts											
	4	6	8	10	12	14	16	18	20	22	24
1	6.7	4.4	3.2	2.8	2.1	1.8	1.6	1.4	1.3	1.1	1.1
2	25.0	14.8	10.6	8.2	6.7	5.7	4.8	4.4	3.9	3.5	3.2
3	75.0	28.6	18.4	14.8	11.8	9.9	8.5	7.5	6.7	6.0	5.5
4	93.3	70.4	39.3	23.8	17.7	14.8	12.5	10.8	9.7	8.7	7.9
5	85.4	67.7	34.2	25.0	20.1	16.8	14.8	12.8	11.8	10.5	10.5
6	86.6	66.8	35.6	22.0	18.9	16.5	14.8	12.8	11.8	10.5	10.5
7	86.5	77.4	64.4	38.8	28.3	23.8	20.4	18.0	16.1	15.1	14.1
8	86.4	85.4	75.0	63.4	57.5	50.8	45.4	40.0	35.6	31.2	27.8
9	81.8	81.8	75.1	68.2	62.3	55.4	49.5	44.1	38.7	34.3	30.9
10	88.2	78.9	71.7	61.8	55.4	49.5	44.1	38.7	34.3	30.9	27.5
11	85.4	85.4	78.9	71.7	61.8	55.4	49.5	44.1	38.7	34.3	30.9
12	93.3	85.4	78.9	71.7	61.8	55.4	49.5	44.1	38.7	34.3	30.9
13	97.9	97.9	90.1	82.2	74.3	66.4	58.5	50.6	42.7	34.8	26.9
14	94.3	87.8	81.2	75.0	68.6	62.2	55.8	49.4	43.0	36.6	30.2
15	91.5	85.4	79.6	73.8	67.7	61.2	54.8	48.4	42.0	35.6	29.2
16	86.1	80.1	74.2	68.2	62.3	56.4	50.0	43.6	37.2	30.8	24.4
17	82.0	77.0	72.0	67.0	62.0	57.0	52.0	47.0	42.0	37.0	32.0
18	85.4	80.4	75.4	70.4	65.4	60.4	55.4	50.4	45.4	40.4	35.4
19	86.8	81.8	76.8	71.8	66.8	61.8	56.8	51.8	46.8	41.8	36.8
20	81.3	76.3	71.3	66.3	61.3	56.3	51.3	46.3	41.3	36.3	31.3
21	84.0	79.0	74.0	69.0	64.0	59.0	54.0	49.0	44.0	39.0	34.0
22	86.5	81.5	76.5	71.5	66.5	61.5	56.5	51.5	46.5	41.5	36.5
23	84.5	79.5	74.5	69.5	64.5	59.5	54.5	49.5	44.5	39.5	34.5
24	86.8	81.8	76.8	71.8	66.8	61.8	56.8	51.8	46.8	41.8	36.8
25	86.9	81.9	76.9	71.9	66.9	61.9	56.9	51.9	46.9	41.9	36.9

Point Location Data			
Point	% of Duct Depth	Distance From Inside Wall	Distance From Outside of Port
1	3.2	5/8	5/8
2	10.6	1 7/8	1 7/8
3	19.4	3 4/8	3 4/8
4	32.3	5 7/8	5 7/8
5	67.7	12 1/8	12 1/8
6	80.6	14 4/8	14 4/8
7	89.5	16 1/8	16 1/8
8	96.8	17 3/8	17 3/8
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			

Too Close

1

17

Location of Points in Rectangular Stacks or Ducts											
	2	3	4	5	6	7	8	9	10	11	12
1	25	16.7	12.5	10.0	8.3	7.1	6.3	5.6	5.0	4.5	4.2
2	75	50	37.5	30.0	25	21.4	18.8	16.7	15.0	13.6	12.5
3	63.3	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
4	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
5	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
6	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
7	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
8	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
9	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
10	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
11	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
12	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5

- 0.0000 - 0.0625 - 0
- 0.0625 - 0.1875 - 1/8
- 0.1875 - 0.3125 - 1/4
- 0.3125 - 0.4375 - 3/8
- 0.4375 - 0.5625 - 1/2
- 0.5625 - 0.6875 - 5/8
- 0.6875 - 0.8125 - 3/4
- 0.8125 - 0.9375 - 7/8
- 0.9375 - 1.0000 - 1

GHM Run 1

Air Control Techniques EPA Method 2 Data Sheet			ACT Job Number	1909
Client	Enviva		ACT Run Number	4
Plant	Amory		Date	10/15/2013
City/State	Amory, MS		Gauge ID	909033
Location	Green Hammermill		Pitot ID	4Pext
			Thermocouple ID	TC25
Averages	4.082	87.4		
	Delta P	Temp		
Point No.	In Water	Deg F	Angle	
A-1	3.700	86	2	Oxygen % 20.9
2	4.300	88	5	
3	5.300	88	-3	Carbon Dioxide % 0
4	5.500	89	-3	
5	2.700	88	0	Moisture % 2.25
6	2.500	87	0	
7	2.600	86	3	Stack Area sq.in. 254.4690087
8	2.200	84	5	
B-1	2.100	86	2	Pbar 29.80
2	2.200	88	4	
3	2.500	88	5	Static Pressure 3.6
4	6.500	88	-3	
5	6.500	89	-3	Pitot Coef. 0.84
6	6.300	88	0	
7	5.900	88	1	Start Time 855
8	7.900	88	2	Stop Time 902
0				
0				
0				Absolute Gas Pressure inches water Ps = 30.06
0				
0				Dry Mole Fraction of Gas Mfd = 0.97746
0				
0				Dry Molecular Weight of Gas lb/lb Mole Md = 28.84
0				
0				Wet Molecular Weight of Gas lb/lb Mole Ms = 28.59
0				
0				Average Gas Velocity ft/sec vs = 115.79
0				
0				Dry Volumetric Gas Flow Rate
0				at Standard Conditions SCFM Qsd = 11630
0				
0				Wet Volumetric Flue Gas Flow Rate
0				at Stack Conditions ACFM Qaw = 12277
0				
0				Wet Volumetric Gas Flow Rate
0				at Standard Conditions WSCFH WSCFH = 713880
0				
0				LKCH
0				Pre 3-4 good
0				Post 5-3 good
0				
0				

GHM Run 3

Air Control Techniques EPA Method 2 Data Sheet			ACT Job Number	1909
Client	Enviva		ACT Run Number	6
Plant	Amory		Date	10/15/2013
City/State	Amory, MS		Gauge ID	909033
Location	Green Hammermill		Pitot ID	4Pext
			Thermocouple ID	TC25
Averages	4.086	88.4		
	Delta P	Temp		
Point No.	In Water	Deg F		
A-1	4.000	87	Oxygen %	20.9
2	4.200	89	Carbon Dioxide %	0
3	4.800	89	Moisture %	2.92
4	6.400	89	Stack Area sq.in.	254.4690087
5	3.300	89	Pbar	29.80
6	2.700	89	Static Pressure	3.6
7	2.600	87	Pitot Coef.	0.84
8	2.400	85	Start Time	1124
B-1	1.600	87	Stop Time	1130
2	2.300	89		
3	4.000	89	Absolute Gas Pressure inches water	Ps = 30.06
4	5.300	89	Dry Mole Fraction of Gas	Mfd = 0.97079
5	5.400	89	Dry Molecular Weight of Gas lb/lb Mole	Md = 28.84
6	6.000	89	Wet Molecular Weight of Gas lb/lb Mole	Ms = 28.52
7	7.100	89	Average Gas Velocity ft/sec	vs = 116.09
8	5.900	90	Dry Volumetric Gas Flow Rate at Standard Conditions SCFM	Qsd = 11560
0			Wet Volumetric Flue Gas Flow Rate at Stack Conditions ACFM	Qaw = 12309
0			Wet Volumetric Gas Flow Rate at Standard Conditions WSCFH	WSCFH = 714468
0				
0			LKCH	
0			Pre	3-4 good
0			Post	5-3 good
0				
0				

Air Control Techniques, P.C.
Moisture Sampling Train Field Data Sheet

Date 10/14/13

SOURCE IDENTIFICATION				EQUIPMENT IDENTIFICATION			
Facility	ENVIVA			Umbilical ID	90		
City, State	Amory, MS			Meterbox ID	909033		
Test Location				ΔH@	1.917		
Personnel	TJB JBG			Gamma (γ)	0.9828		

Run Identification				Actual					Req'd		Vac
M4-1				Pre Leak Check	0.000	< 0.02 or 4%		16			
				Post Leak Check	0.000	< 0.02 or 4%		18			
Clock Time	Elapsed Time (min)	Volume Metered (ft ³)	Meter Temp. (°F)	ΔH (in. W.C.)	Probe Temp. (°F)	Filter Temp. (°F)	Impinger Temp. (°F)	Vacuum (in. Hg)			
1513	180.200	0	85	1.0	N/A	N/A	59	3			
1530	188.51	15	92				53	3			
1545	197.26	30	94				54	3			
1600	204.42	45	95				56	3			
1615	210.892	60									

Run Identification				Actual					Req'd		Vac
M4-2				Pre Leak Check	0.000	< 0.02 or 4%		13			
				Post Leak Check	0.004	< 0.02 or 4%		10			
Clock Time	Elapsed Time (min)	Volume Metered (ft ³)	Meter Temp. (°F)	ΔH (in. W.C.)	Probe Temp. (°F)	Filter Temp. (°F)	Impinger Temp. (°F)	Vacuum (in. Hg)			
1640	0	211.600	95	1.0	N/A	N/A	55	3			
1655	15	217.71	94				51	3			
1710	30	221.56	93				53	3			
1725	45	237.91	92				54	3			
1740	60	246.729									

Run Identification				Actual					Req'd		Vac
M4-3				Pre Leak Check	0.000	< 0.02 or 4%		10			
				Post Leak Check	0.000	< 0.02 or 4%		9			
Clock Time	Elapsed Time (min)	Volume Metered (ft ³)	Meter Temp. (°F)	ΔH (in. W.C.)	Probe Temp. (°F)	Filter Temp. (°F)	Impinger Temp. (°F)	Vacuum (in. Hg)			
1758	0	247.000	89	1.0	N/A	N/A	54	3			
1813	15	255.44	88				53	3			
1828	30	263.25	88				52	3			
1843	45	269.87	87				55	3			
1858	60	278.084									

Method 4 - Air Control Techniques, P.C.

Date

Identification Information

Client	ENDUVA	Job	1909
Plant Name	AMPERY	Process	DRYER
City	AMPERY	State	MS

Sampling Information

Run Number		Balance Number	Video
Sampling Date		Balance Type	Electronic
Recovery Date		Balance Level	✓
Personnel	TTB JBG	Recovery Area	✓

Location Moisture Data

	Run Number	1	2	3
<u>Impinger 1</u>				
Final Weight, grams/mls	780.4	796.5	854.4	
Initial Weight, grams/mls	709.5	717.2	780.4	
Condensed Water, grams	70.9	79.3	74.0	
<u>Impinger 2</u>				
Final Weight, grams/mls	679.3	724.1	683.8	
Initial Weight, grams/mls	673.6	718.4	679.3	
Condensed Water, grams	5.7	5.2	4.5	
<u>Impinger 3</u>				
Final Weight, grams/mls	604.5	613.3	605.5	
Initial Weight, grams/mls	603.1	612.5	604.5	
Condensed Water, grams	1.4	0.8	1.0	
Condensed Water, grams				
<u>Silica Gel</u>				
Final Weight, grams	802.5	823.0	808.5	
Initial Weight, grams	796.7	816.4	802.5	
Adsorbed Water, grams	5.8	6.6	6.0	
Adsorbed Water, grams				
Total Water, grams	83.8	91.9		

$V_m(\text{std}) = \text{Volume of gas sampled at standard conditions (dscf)}$
 $V_m(\text{std}) = ((\text{Gamma} * 17.64 * V_m * (\text{Pbar} + (\Delta H / 13.6)))) / (\text{Tm} + 460)$
 $V_{wc}(\text{std}) = \text{volume of water vapor at standard conditions (scf)}$
 $V_{wc}(\text{std}) = (0.04707) * (\text{volume of water collected (mls)})$
 $B_{ws} = \text{Mole fraction of water vapor}$
 $B_{ws} = V_{wc}(\text{std}) / (V_m(\text{std}) + V_{wc}(\text{std}))$
 $\text{Percent Moisture} = 100 * B_{ws}$

Air Control Techniques, P.C.
Moisture Sampling Train Field Data Sheet

Date 10/16/13

SOURCE IDENTIFICATION		EQUIPMENT IDENTIFICATION	
Facility	ENVIVA	Umbilical ID	90
City, State	AMORY, MS	Meterbox ID	909033
Test Location	Green Hammer mill	$\Delta H @$	1.917
Personnel	TJB, JBG	Gamma (γ)	0.9828

Run Identification <u>4</u>				Actual	Req'd	Vac
Pre Leak Check				0.000	< 0.02 or 4%	15
Post Leak Check				0.000	< 0.02 or 4%	12

Clock Time	Elapsed Time (min)	Volume Metered (ft ³)	Meter Temp. (°F)	ΔH (in. W.C.)	Probe Temp. (°F)	Filter Temp. (°F)	Impinger Temp. (°F)	Vacuum (in. Hg)
911	0	278.300	66	1.0	N/A	N/A	52	3
926	15	286.65	67				60	3
	30	294.87	70				64	3
	45	303.11	72				65	3
	60	311.263						

Run Identification <u>5</u>				Actual	Req'd	Vac
Pre Leak Check				0.000	< 0.02 or 4%	16
Post Leak Check				0.000	< 0.02 or 4%	9

Clock Time	Elapsed Time (min)	Volume Metered (ft ³)	Meter Temp. (°F)	ΔH (in. W.C.)	Probe Temp. (°F)	Filter Temp. (°F)	Impinger Temp. (°F)	Vacuum (in. Hg)
1032	0	311.600	73	1.0	N/A	N/A	59	3
1037	15	320.11	76				60	3
1052	30	329.01	77				60	3
1107	45	337.70	78				61	3
1122	60	346.296						

Run Identification <u>6</u>				Actual	Req'd	Vac
Pre Leak Check				0.000	< 0.02 or 4%	14
Post Leak Check				0.010	< 0.02 or 4%	10

Clock Time	Elapsed Time (min)	Volume Metered (ft ³)	Meter Temp. (°F)	ΔH (in. W.C.)	Probe Temp. (°F)	Filter Temp. (°F)	Impinger Temp. (°F)	Vacuum (in. Hg)
1140	0	346.500	78	1.0	N/A	N/A	61	3
1155	15	355.02	80				60	3
1210	30	363.61	80				62	3
1225	45	372.43	81				64	3
1240	60	380.300						

Method 4 - Air Control Techniques, P.C.

Date

Identification Information

	Client <u>ENDIVA</u>	Job <u>1909</u>
	Plant Name <u>Amory</u>	Process <u>Greenhamms Mill</u>
	City <u>Amory</u>	State <u>MS</u>

Sampling Information

Run Number		Balance Number <u>V1000</u>
Sampling Date		Balance Type <u>Electronic</u>
Recovery Date		Balance Level <input checked="" type="checkbox"/>
Personnel	<u>TJB JBG</u>	Recovery Area <input checked="" type="checkbox"/>

Location Moisture Data

	Run Number <u>M4-4</u>	<u>5</u>	<u>6</u>
<u>Impinger 1</u>			
Final Weight, grams/mls	<u>809.0</u>	<u>868.8</u>	<u>823.5</u>
Initial Weight, grams/mls	<u>796.5</u>	<u>854.4</u>	<u>809.0</u>
Condensed Water, grams	<u>12.5</u>	<u>14.4</u>	<u>14.5</u>
<u>Impinger 2</u>			
Final Weight, grams/mls	<u>724.2</u>	<u>685.4</u>	<u>727.2</u>
Initial Weight, grams/mls	<u>724.1</u>	<u>683.8</u>	<u>724.2</u>
Condensed Water, grams	<u>0.1</u>	<u>1.6</u>	<u>3.0</u>
<u>Impinger 3</u>			
Final Weight, grams/mls	<u>612.5</u>	<u>605.2</u>	<u>614.0</u>
Initial Weight, grams/mls	<u>613.3</u>	<u>605.5</u>	<u>612.5</u>
Condensed Water, grams	<u>-0.8</u>	<u>-0.3</u>	<u>1.5</u>
Condensed Water, grams			
<u>Silica Gel</u>			
Final Weight, grams	<u>827.0</u>	<u>814.2</u>	<u>834.0</u>
Initial Weight, grams	<u>823.0</u>	<u>808.5</u>	<u>827.0</u>
Adsorbed Water, grams	<u>4.0</u>	<u>5.7</u>	<u>7.0</u>
Adsorbed Water, grams	<u>—</u>	<u>—</u>	<u>—</u>
Total Water, grams	<u>15.6</u>	<u>21.4</u>	<u>26.0</u>

$Vm(std) = \text{Volume of gas sampled at standard conditions (dscf)}$
 $Vm(std) = ((\text{Gamma} * 17.64 * Vm * (Pbar + (\Delta H / 13.6)))) / (Tm + 460)$
 $Vwc(std) = \text{volume of water vapor at standard conditions (scf)}$
 $Vwc(std) = (0.04707) * (\text{volume of water collected (mls)})$
 $Bws = \text{Mole fraction of water vapor}$
 $Bws = Vwc(std) / (Vm(std) + Vwc(std))$
 $\text{Percent Moisture} = 100 * Bws$

Air Control Techniques, P.C.
Moisture Sampling Train Field Data Sheet

Date 10/15/13

SOURCE IDENTIFICATION		EQUIPMENT IDENTIFICATION	
Facility	<u>ENITVA</u>	Umbilical ID	<u>90</u>
City, State	<u>Amory, MS</u>	Meterbox ID	<u>909033</u>
Test Location	<u>DRY Hammermill</u>	ΔH@	<u>1.917</u>
Personnel	<u>TJB, JRG</u>	Gamma (γ)	<u>0.9320</u>

Run Identification <u>114-7</u>				Pre Leak Check			Post Leak Check		
				Actual	Req'd	Vac			
				0.000	< 0.02 or 4%	12			
				0.003	< 0.02 or 4%	10			
Clock Time	Elapsed Time (min)	Volume Metered (ft ³)	Meter Temp. (°F)	ΔH (in. W.C.)	Probe Temp. (°F)	Filter Temp. (°F)	Impinger Temp. (°F)	Vacuum (in. Hg)	
<u>1349</u>	<u>0</u>	<u>380.500</u>	<u>78</u>	<u>1.0</u>	<u>N/A</u>	<u>N/A</u>	<u>60</u>	<u>3</u>	
<u>1403</u>	<u>15</u>	<u>398.92</u>	<u>77</u>	↓	↓	↓	<u>56</u>	<u>3</u>	
<u>1438</u>	<u>30</u>	<u>398.03</u>	<u>82</u>	↓	↓	↓	<u>55</u>	<u>3</u>	
<u>1433</u>	<u>45</u>	<u>406.56</u>	<u>83</u>	↓	↓	↓	<u>56</u>	<u>3</u>	
<u>1448</u>	<u>60</u>	<u>415.418</u>							

Run Identification 8				Pre Leak Check			Post Leak Check		
				Actual	Req'd	Vac			
					< 0.02 or 4%				
					< 0.02 or 4%				
Clock Time	Elapsed Time (min)	Volume Metered (ft ³)	Meter Temp. (°F)	ΔH (in. W.C.)	Probe Temp. (°F)	Filter Temp. (°F)	Impinger Temp. (°F)	Vacuum (in. Hg)	
	<u>0</u>			<u>1.0</u>	<u>N/A</u>	<u>N/A</u>			
	<u>15</u>			↓	↓	↓			
	<u>30</u>			↓	↓	↓			
	<u>45</u>			↓	↓	↓			
	<u>60</u>								

Run Identification 9				Pre Leak Check			Post Leak Check		
				Actual	Req'd	Vac			
					< 0.02 or 4%				
					< 0.02 or 4%				
Clock Time	Elapsed Time (min)	Volume Metered (ft ³)	Meter Temp. (°F)	ΔH (in. W.C.)	Probe Temp. (°F)	Filter Temp. (°F)	Impinger Temp. (°F)	Vacuum (in. Hg)	
	<u>0</u>			<u>1.0</u>	<u>N/A</u>	<u>N/A</u>			
	<u>15</u>			↓	↓	↓			
	<u>30</u>			↓	↓	↓			
	<u>45</u>			↓	↓	↓			
	<u>60</u>								

Method 4 - Air Control Techniques, P.C.

Date 10/15/13

Identification Information

Client	ENDURA	Job	1909
Plant Name	AMORY	Process	Dry Hammer Mill
City	AMORY	State	MS

Sampling Information

Run Number		Balance Number	V1200
Sampling Date		Balance Type	Electronic
Recovery Date		Balance Level	✓
Personnel	TTB JBG	Recovery Area	✓

Location Moisture Data

Run Number	7	8	9
<u>Impinger 1</u>			
Final Weight, grams/mls	887.0		
Initial Weight, grams/mls	868.8	823.5	887.0
Condensed Water, grams	18.2		
<u>Impinger 2</u>			
Final Weight, grams/mls	687.2		
Initial Weight, grams/mls	685.4	727.2	687.2
Condensed Water, grams	1.8		
<u>Impinger 3</u>			
Final Weight, grams/mls	605.8		
Initial Weight, grams/mls	605.2	604.0	605.8
Condensed Water, grams	0.6		
Condensed Water, grams			
<u>Silica Gel</u>			
Final Weight, grams	819.9		
Initial Weight, grams	814.2	834.0	819.9
Adsorbed Water, grams	5.7		
Adsorbed Water, grams	—	—	—
Total Water, grams	26.3		

$V_m(\text{std}) = \text{Volume of gas sampled at standard conditions (dscf)}$
 $V_m(\text{std}) = ((\text{Gamma} * 17.64 * V_m * (\text{Pbar} + (\Delta H / 13.6)))) / (\text{Tm} + 460)$
 $V_{wc}(\text{std}) = \text{volume of water vapor at standard conditions (scf)}$
 $V_{wc}(\text{std}) = (0.04707) * (\text{volume of water collected (mls)})$
 $B_{ws} = \text{Mole fraction of water vapor}$
 $B_{ws} = V_{wc}(\text{std}) / (V_m(\text{std}) + V_{wc}(\text{std}))$
 $\text{Percent Moisture} = 100 * B_{ws}$

Air Control Techniques, P.C.
Moisture Sampling Train Field Data Sheet

Date 10/15/13

SOURCE IDENTIFICATION		EQUIPMENT IDENTIFICATION	
Facility	ENVIWA	Umbilical ID	90
City, State	AMDRY #15	Meterbox ID	929033
Test Location	Pellet Mill Cooler Aspirator	ΔH@	1.917
Personnel	TJB JBG	Gamma (y)	0.9838

Run Identification		Actual		Req'd		Vac	
M4-8		Pre Leak Check	0.000	< 0.02 or 4%	15		
		Post Leak Check	0.000	< 0.02 or 4%	7		

Clock Time	Elapsed Time (min)	Volume Metered (ft ³)	Meter Temp. (°F)	ΔH (in. W.C.)	Probe Temp. (°F)	Filter Temp. (°F)	Impinger Temp. (°F)	Vacuum (in. Hg)
1736	0	416.000	77	N/A	N/A	N/A	64	3
1751	15	424.31	86	↓	↓	↓	50	3
1806	30	432.72	80	↓	↓	↓	51	3
1821	45	441.21	81	↓	↓	↓	52	3
1836	60	449.483						

Run Identification		Actual		Req'd		Vac	
98		Pre Leak Check	0.000	< 0.02 or 4%	9		
		Post Leak Check	0.000	< 0.02 or 4%	12		

Clock Time	Elapsed Time (min)	Volume Metered (ft ³)	Meter Temp. (°F)	ΔH (in. W.C.)	Probe Temp. (°F)	Filter Temp. (°F)	Impinger Temp. (°F)	Vacuum (in. Hg)
1849	0	449.600	80	1.0	N/A	N/A	53	3
1904	15	452.600	81	↓	↓	↓	62	3
1919	30	460.62	82	↓	↓	↓	61	3
1934	45	475.25	82	↓	↓	↓	61	3
1949	60	483.943						

Run Identification		Actual		Req'd		Vac	
10		Pre Leak Check	0.000	< 0.02 or 4%	11		
		Post Leak Check	0.000	< 0.02 or 4%	7		

Clock Time	Elapsed Time (min)	Volume Metered (ft ³)	Meter Temp. (°F)	ΔH (in. W.C.)	Probe Temp. (°F)	Filter Temp. (°F)	Impinger Temp. (°F)	Vacuum (in. Hg)
2000	0	484.100	80	1.0	N/A	N/A	51	3
2015	15	492.71	81	↓	↓	↓	64	3
2030	30	501.11	81	↓	↓	↓	64	3
2045	45	509.43	81	↓	↓	↓	64	3
2100	60	517.924						

Method 4 - Air Control Techniques, P.C.

Date 10/15/13

Identification Information

Client	<u>EWING</u>	Job	<u>1909</u>
Plant Name	<u>AMORY</u>	Process	<u>ASPIRATOR</u>
City	<u>AMORY</u>	State	<u>MS</u>

Sampling Information

Run Number		Balance Number	<u>V1000</u>
Sampling Date		Balance Type	<u>Electronic</u>
Recovery Date		Balance Level	<input checked="" type="checkbox"/>
Personnel	<u>TJB JBK</u>	Recovery Area	<input checked="" type="checkbox"/>

Location Moisture Data

	Run Number	8	9	10
Impinger 1				
Final Weight, grams/mls		<u>874.7</u>	<u>937.5</u>	<u>926.5</u>
Initial Weight, grams/mls		<u>823.5</u>	<u>887.0</u>	<u>874.7</u>
Condensed Water, grams		<u>51.2</u>	<u>50.2</u>	<u>51.8</u>
Impinger 2				
Final Weight, grams/mls		<u>729.3</u>	<u>692.2</u>	<u>734.1</u>
Initial Weight, grams/mls		<u>727.2</u>	<u>687.2</u>	<u>729.3</u>
Condensed Water, grams		<u>2.1</u>	<u>5.0</u>	<u>4.8</u>
Impinger 3				
Final Weight, grams/mls		<u>614.2</u>	<u>606.3</u>	<u>615.2</u>
Initial Weight, grams/mls		<u>614.0</u>	<u>605.8</u>	<u>614.2</u>
Condensed Water, grams		<u>0.2</u>	<u>0.5</u>	<u>1.0</u>
Condensed Water, grams		<u>53.5</u>		
Silica Gel				
Final Weight, grams		<u>838.3</u>	<u>825.6</u>	<u>843.1</u>
Initial Weight, grams		<u>834.0</u>	<u>819.9</u>	<u>838.3</u>
Adsorbed Water, grams		<u>4.3</u>	<u>5.7</u>	<u>4.8</u>
Adsorbed Water, grams		<u>—</u>	<u>—</u>	<u>—</u>
Total Water, grams		<u>57.8</u>	<u>61.4</u>	<u>62.4</u>

$Vm(std) = \text{Volume of gas sampled at standard conditions (dscf)}$
 $Vm(std) = ((\text{Gamma} * 17.64 * Vm * (Pbar + (\Delta H / 13.6))) / (Tm + 460))$
 $Vwc(std) = \text{volume of water vapor at standard conditions (scf)}$
 $Vwc(std) = (0.04707) * (\text{volume of water collected (mls)})$
 $Bws = \text{Mole fraction of water vapor}$
 $Bws = Vwc(std) / (Vm(std) + Vwc(std))$
 $\text{Percent Moisture} = 100 * Bws$

Air Control Techniques, P.C.
Moisture Sampling Train Field Data Sheet

Date 10/16/13

SOURCE IDENTIFICATION		EQUIPMENT IDENTIFICATION	
Facility	AMORY ENVI VA	Umbilical ID	90
City, State	AMORY MS	Meterbox ID	909033
Test Location	DRY Hammer Mill	ΔH_e	1.97
Personnel	MS JB5	Gamma (γ)	0.4828

Run Identification <u>11</u>				Pre Leak Check			Post Leak Check		
				Actual	Req'd	Vac			
				0.000	< 0.02 or 4%	10			
				0.000	< 0.02 or 4%	19			
Clock Time	Elapsed Time (min)	Volume Metered (ft ³)	Meter Temp. (°F)	ΔH (in. W.C.)	Probe Temp. (°F)	Filter Temp. (°F)	Impinger Temp. (°F)	Vacuum (in. Hg)	
1054	0	518.300	69	1.0	N/A	N/A	61	3	
1109	15	526.70	67	↓	↓	↓	60	3	
1224	30	535.13	70	↓	↓	↓	61	3	
1137	45	543.05	71	↓	↓	↓	61	3	
1154	60	551.693					61	3	

Run Identification <u>12</u>				Pre Leak Check			Post Leak Check		
				Actual	Req'd	Vac			
				0.000	< 0.02 or 4%	12			
				0.000	< 0.02 or 4%	7			
Clock Time	Elapsed Time (min)	Volume Metered (ft ³)	Meter Temp. (°F)	ΔH (in. W.C.)	Probe Temp. (°F)	Filter Temp. (°F)	Impinger Temp. (°F)	Vacuum (in. Hg)	
1207	0	551.900	72	1.0	N/A	N/A	62	3	
1222	15	561.92	75	↓	↓	↓	69	4	
1237	30	571.82	74	↓	↓	↓	62	3	
1252	45	580.91	75	↓	↓	↓	61	3	
1307	60	589.175							

Run Identification <u>13</u>				Pre Leak Check			Post Leak Check		
				Actual	Req'd	Vac			
				0.000	< 0.02 or 4%	9			
				0.000	< 0.02 or 4%	8			
Clock Time	Elapsed Time (min)	Volume Metered (ft ³)	Meter Temp. (°F)	ΔH (in. W.C.)	Probe Temp. (°F)	Filter Temp. (°F)	Impinger Temp. (°F)	Vacuum (in. Hg)	
1321	0	587.400	74	1.0	N/A	N/A	57	3	
1336	15	597.865	75	↓	↓	↓	60	3	
1351	30	606.43	76	↓	↓	↓	69	3	
1406	45	614.61	77	↓	↓	↓	60	3	
1421	60	622.809							

Method 4 - Air Control Techniques, P.C.

Date

Identification Information			
Client	ENVIVA	Job	1909
Plant Name	AMDRI	Process	DRY Hammer Mill
City	AMDRI	State	MS

Sampling Information			
Run Number		Balance Number	V1200
Sampling Date		Balance Type	Electronic
Recovery Date		Balance Level	L
Personnel		Recovery Area	L

Location Moisture Data			
	Run Number	11	12
		13	
<u>Impinger 1</u>			
Final Weight, grams/mls	763.5	934.0	786.3
Initial Weight, grams/mls	746.5	926.5	763.5
Condensed Water, grams	17.0	7.5	22.8
<u>Impinger 2</u>			
Final Weight, grams/mls	693.1	748.7	694.4
Initial Weight, grams/mls	692.2	734.1	693.1
Condensed Water, grams	0.9	14.6	1.3
<u>Impinger 3</u>			
Final Weight, grams/mls	605.6	616.1	607.2
Initial Weight, grams/mls	614.2	615.2	605.6
Condensed Water, grams	-0.7	0.9	1.6
Condensed Water, grams	606.3		
<u>Silica Gel</u>			
Final Weight, grams	829.0	847.0	832.6
Initial Weight, grams	825.6	843.1	829.0
Adsorbed Water, grams	3.4	3.9	3.6
Adsorbed Water, grams	—	—	—
Total Water, grams	3.0 20.6	26.9	30.3

$V_m(\text{std}) = \text{Volume of gas sampled at standard conditions (dscf)}$
 $V_m(\text{std}) = ((\text{Gamma} * 17.64 * V_m * (\text{Pbar} + (\Delta H / 13.6))) / (\text{Tm} + 460))$
 $V_{wc}(\text{std}) = \text{volume of water vapor at standard conditions (scf)}$
 $V_{wc}(\text{std}) = (0.04707) * (\text{volume of water collected (mls)})$
 $B_{ws} = \text{Mole fraction of water vapor}$
 $B_{ws} = V_{wc}(\text{std}) / (V_m(\text{std}) + V_{wc}(\text{std}))$
 $\text{Percent Moisture} = 100 * B_{ws}$

APPENDIX B
Method 25A Data

Test Run 1 Begin. STRATA Version 3.2

Operator: DGG
Plant Name: Enviva Amory
Location: Dryer Run 1

THC
ppm

Start Averaging

10/14/2013	15:16:06	29.84
10/14/2013	15:17:06	29.38
10/14/2013	15:18:07	29.23
10/14/2013	15:19:08	29.5
10/14/2013	15:20:06	29.43
10/14/2013	15:21:06	29.07
10/14/2013	15:22:06	28.69
10/14/2013	15:23:07	28.19
10/14/2013	15:24:07	28.8
10/14/2013	15:25:07	29.25
10/14/2013	15:26:08	29.42
10/14/2013	15:27:06	29.42
10/14/2013	15:28:06	29.37
10/14/2013	15:29:06	29.27
10/14/2013	15:30:07	28.87
10/14/2013	15:31:07	28.67
10/14/2013	15:32:07	29.34
10/14/2013	15:33:07	29.91
10/14/2013	15:34:06	29.97
10/14/2013	15:35:06	29.72
10/14/2013	15:36:06	29.81
10/14/2013	15:37:07	30.15
10/14/2013	15:38:07	30.47
10/14/2013	15:39:07	30.79
10/14/2013	15:40:07	30.98
10/14/2013	15:41:08	31.24
10/14/2013	15:42:06	30.95
10/14/2013	15:43:06	30.53
10/14/2013	15:44:06	29.96
10/14/2013	15:45:07	29.76
10/14/2013	15:46:07	30.29
10/14/2013	15:47:07	30.72
10/14/2013	15:48:07	31.05
10/14/2013	15:49:06	31.74
10/14/2013	15:50:06	31.76
10/14/2013	15:51:06	31.92
10/14/2013	15:52:06	31.8
10/14/2013	15:53:07	30.91
10/14/2013	15:54:07	30.34
10/14/2013	15:55:07	30.66
10/14/2013	15:56:08	31.37
10/14/2013	15:57:06	31.66
10/14/2013	15:58:06	31.75
10/14/2013	15:59:06	31.88

10/14/2013	16:00:07	32.01
10/14/2013	16:01:07	32.08
10/14/2013	16:02:07	31.95
10/14/2013	16:03:07	31
10/14/2013	16:04:06	29.66
10/14/2013	16:05:06	28.44
10/14/2013	16:06:06	27.74
10/14/2013	16:07:06	27.01
10/14/2013	16:08:07	26.17
10/14/2013	16:09:07	25.71
10/14/2013	16:10:07	25.36
10/14/2013	16:11:08	25.84
10/14/2013	16:12:06	26.07
10/14/2013	16:13:06	25.76
10/14/2013	16:14:06	25.89
10/14/2013	16:15:06	26.02
Average	1803 sampl	29.55
Test Run 1 End		

Test Run 2 Begin. STRATA Version 3.2

Operator: DGG
Plant Name: Enviva Amory
Location: Dryer Run 2

THC
ppm

Start Averaging

10/14/2013	16:41:35	18.65
10/14/2013	16:42:35	17.55
10/14/2013	16:43:35	17.23
10/14/2013	16:44:36	17.41
10/14/2013	16:45:36	17.14
10/14/2013	16:46:36	17.01
10/14/2013	16:47:36	17.98
10/14/2013	16:48:35	19.26
10/14/2013	16:49:35	20.5
10/14/2013	16:50:36	20.97
10/14/2013	16:51:36	21.28
10/14/2013	16:52:36	22.13
10/14/2013	16:53:36	22.77
10/14/2013	16:54:37	22.83
10/14/2013	16:55:35	21.93
10/14/2013	16:56:35	21.3
10/14/2013	16:57:35	21.57
10/14/2013	16:58:36	21.17
10/14/2013	16:59:36	20.54
10/14/2013	17:00:36	21.27
10/14/2013	17:01:36	22.16
10/14/2013	17:02:35	22.73
10/14/2013	17:03:35	22.84
10/14/2013	17:04:35	23.05
10/14/2013	17:05:35	22.88
10/14/2013	17:06:36	22.19
10/14/2013	17:07:36	21.93
10/14/2013	17:08:36	22.4
10/14/2013	17:09:37	22.75
10/14/2013	17:10:35	22.57
10/14/2013	17:11:35	22.65
10/14/2013	17:12:35	22.63
10/14/2013	17:13:36	22.69
10/14/2013	17:14:36	22.76
10/14/2013	17:15:36	22.66
10/14/2013	17:16:36	22.62
10/14/2013	17:17:35	22.57
10/14/2013	17:18:35	22.52
10/14/2013	17:19:35	22.7
10/14/2013	17:20:36	23.2

10/14/2013	17:21:36	23.48
10/14/2013	17:22:36	23.29
10/14/2013	17:23:36	23.28
10/14/2013	17:24:37	23.34
10/14/2013	17:25:35	23.06
10/14/2013	17:26:35	22.67
10/14/2013	17:27:35	21.3
10/14/2013	17:28:36	20.48
10/14/2013	17:29:36	20.59
10/14/2013	17:30:36	21.05
10/14/2013	17:31:36	21.38
10/14/2013	17:32:35	21.75
10/14/2013	17:33:35	22.32
10/14/2013	17:34:35	23.55
10/14/2013	17:35:36	24.22
10/14/2013	17:36:36	24.7
10/14/2013	17:37:36	24.87
10/14/2013	17:38:36	24.87
10/14/2013	17:39:35	24.85
10/14/2013	17:40:35	24.86
Average	1795 samp	21.88

Test Run 2 End

Test Run 3 Begin. STRATA Version 3.2

Operator: DGG

Plant Name: Enviva Amory

Location: Dryer Run 3

THC
ppm

Start Averaging

10/14/2013	17:59:03	23.65
10/14/2013	18:00:03	23.59
10/14/2013	18:01:01	23.24
10/14/2013	18:02:01	23.09
10/14/2013	18:03:02	23.36
10/14/2013	18:04:02	23.94
10/14/2013	18:05:02	24.25
10/14/2013	18:06:03	24.43
10/14/2013	18:07:03	23.91
10/14/2013	18:08:01	20.3
10/14/2013	18:09:01	14.03
10/14/2013	18:10:02	21.86
10/14/2013	18:11:02	21.83
10/14/2013	18:12:02	22.05
10/14/2013	18:13:02	22.48
10/14/2013	18:14:03	22.72
10/14/2013	18:15:01	22.91
10/14/2013	18:16:01	23.55
10/14/2013	18:17:01	24
10/14/2013	18:18:02	23.83
10/14/2013	18:19:02	23.35
10/14/2013	18:20:02	22.91
10/14/2013	18:21:03	22.53
10/14/2013	18:22:03	22.03
10/14/2013	18:23:01	21.72
10/14/2013	18:24:01	21.54
10/14/2013	18:25:02	21.53
10/14/2013	18:26:02	21.59
10/14/2013	18:27:02	21.11
10/14/2013	18:28:02	20.57
10/14/2013	18:29:03	20.16
10/14/2013	18:30:03	19.45
10/14/2013	18:31:01	18.75
10/14/2013	18:32:02	18.57
10/14/2013	18:33:02	19.09
10/14/2013	18:34:02	20.04
10/14/2013	18:35:02	20.84
10/14/2013	18:36:03	21.29
10/14/2013	18:37:01	22.01
10/14/2013	18:38:01	22.75

10/14/2013	18:39:02	23.32
10/14/2013	18:40:02	23.31
10/14/2013	18:41:02	23.03
10/14/2013	18:42:02	22.55
10/14/2013	18:43:03	22.03
10/14/2013	18:44:03	21.77
10/14/2013	18:45:01	21.28
10/14/2013	18:46:01	20.78
10/14/2013	18:47:02	21.1
10/14/2013	18:48:02	21.25
10/14/2013	18:49:02	21.74
10/14/2013	18:50:03	22.33
10/14/2013	18:51:03	22.64
10/14/2013	18:52:01	22.32
10/14/2013	18:53:01	22.09
10/14/2013	18:54:02	21.95
10/14/2013	18:55:02	21.78
10/14/2013	18:56:02	22
10/14/2013	18:57:02	22.84
10/14/2013	18:58:03	23.45
10/14/2013	18:59:01	23.63
10/14/2013	19:00:01	23.84
Average	1862 sampl	22.2

Test Run 3 End

Test Run 4 Begin. STRATA Version 3.2

Operator: DGG
Plant Name: Enviva Amory
Location: GHM Run 1

		THC ppm
Start Averaging		
10/15/2013	9:11:26	15.95
10/15/2013	9:12:26	17.8
10/15/2013	9:13:26	21.03
10/15/2013	9:14:25	18.51
10/15/2013	9:15:25	18.26
10/15/2013	9:16:25	16.45
10/15/2013	9:17:25	16.65
10/15/2013	9:18:26	18.64
10/15/2013	9:19:26	18.53
10/15/2013	9:20:26	19.32
10/15/2013	9:21:25	19.84
10/15/2013	9:22:25	18.28
10/15/2013	9:23:25	17.88
10/15/2013	9:24:25	20.19
10/15/2013	9:25:25	20.74
10/15/2013	9:26:26	17.95
10/15/2013	9:27:26	17.47
10/15/2013	9:28:26	17.23
10/15/2013	9:29:25	17.82
10/15/2013	9:30:25	17.99
10/15/2013	9:31:25	16.51
10/15/2013	9:32:25	16
10/15/2013	9:33:26	17.44
10/15/2013	9:34:26	18.18
10/15/2013	9:35:26	17.55
10/15/2013	9:36:25	17.15
10/15/2013	9:37:25	15.8
10/15/2013	9:38:25	14.6
10/15/2013	9:39:25	14.94
10/15/2013	9:40:26	15.11
10/15/2013	9:41:26	16.85
10/15/2013	9:42:26	16.16
10/15/2013	9:43:26	16.03
10/15/2013	9:44:25	15.09
10/15/2013	9:45:25	15.75
10/15/2013	9:46:25	15.88
10/15/2013	9:47:25	15.06
10/15/2013	9:48:26	14.84
10/15/2013	9:49:26	16.07
10/15/2013	9:50:26	17

10/15/2013	9:51:26	17.1
10/15/2013	9:52:25	17.27
10/15/2013	9:53:25	17.34
10/15/2013	9:54:25	19.1
10/15/2013	9:55:25	20.4
10/15/2013	9:56:26	17.18
10/15/2013	9:57:26	17.29
10/15/2013	9:58:26	16.76
10/15/2013	9:59:26	17.77
10/15/2013	10:00:25	18.76
10/15/2013	10:01:25	19.29
10/15/2013	10:02:25	19.76
10/15/2013	10:03:26	18.99
10/15/2013	10:04:26	18.63
10/15/2013	10:05:26	18.15
10/15/2013	10:06:26	18.46
10/15/2013	10:07:25	17.84
10/15/2013	10:08:25	16.74
10/15/2013	10:09:25	15.89
10/15/2013	10:10:25	17.2
Average	1794 samp	17.47

Test Run 4 End

Test Run 5 Begin. STRATA Version 3.2

Operator: DGG

Plant Name: Enviva Amory

Location: GHM Run 2

THC

ppm

Start Averaging

10/15/2013	10:23:15	21.64
10/15/2013	10:24:16	22.79
10/15/2013	10:25:16	21.11
10/15/2013	10:26:16	20.44
10/15/2013	10:27:17	20.36
10/15/2013	10:28:15	19
10/15/2013	10:29:15	17.55
10/15/2013	10:30:15	18.13
10/15/2013	10:31:15	18.99
10/15/2013	10:32:16	19.11
10/15/2013	10:33:16	20.15
10/15/2013	10:34:16	20.97
10/15/2013	10:35:16	20.98
10/15/2013	10:36:15	22.77
10/15/2013	10:37:15	24.15
10/15/2013	10:38:15	22.1
10/15/2013	10:39:16	22.37
10/15/2013	10:40:16	21.25
10/15/2013	10:41:16	21.46
10/15/2013	10:42:16	22.62
10/15/2013	10:43:15	22.74
10/15/2013	10:44:15	19.79
10/15/2013	10:45:15	19.21
10/15/2013	10:46:15	18.83
10/15/2013	10:47:16	16.99
10/15/2013	10:48:16	18.07
10/15/2013	10:49:16	17.81
10/15/2013	10:50:16	16.86
10/15/2013	10:51:15	17.4
10/15/2013	10:52:15	18.8
10/15/2013	10:53:15	19.99
10/15/2013	10:54:16	20.83
10/15/2013	10:55:16	20.93
10/15/2013	10:56:16	22.63
10/15/2013	10:57:16	25.91
10/15/2013	10:58:17	28.69
10/15/2013	10:59:15	27.11
10/15/2013	11:00:15	28.57
10/15/2013	11:01:15	29.23
10/15/2013	11:02:16	28.67

10/15/2013	11:03:16	28.01
10/15/2013	11:04:16	27.22
10/15/2013	11:05:17	23.74
10/15/2013	11:06:15	25.25
10/15/2013	11:07:15	25.76
10/15/2013	11:08:15	23.95
10/15/2013	11:09:15	20.65
10/15/2013	11:10:16	18.9
10/15/2013	11:11:16	17.21
10/15/2013	11:12:16	16.78
10/15/2013	11:13:16	18.22
10/15/2013	11:14:15	18.64
10/15/2013	11:15:15	18.69
10/15/2013	11:16:15	17.69
10/15/2013	11:17:15	16.78
10/15/2013	11:18:16	18.28
10/15/2013	11:19:16	20.17
10/15/2013	11:20:16	20.31
10/15/2013	11:21:17	19.73
10/15/2013	11:22:15	18.97
Average	1795 samç	21.19

Test Run 5 End

Test Run 6 Begin. STRATA Version 3.2

Operator: DGG

Plant Name: Enviva Amory

Location: GHM Run 3

THC
ppm

Start Averaging

10/15/2013	11:41:04	17.41
10/15/2013	11:42:04	17.84
10/15/2013	11:43:04	19.12
10/15/2013	11:44:04	18.76
10/15/2013	11:45:03	19.51
10/15/2013	11:46:03	20.52
10/15/2013	11:47:03	19.63
10/15/2013	11:48:03	21.38
10/15/2013	11:49:04	24.22
10/15/2013	11:50:04	23.15
10/15/2013	11:51:04	25.62
10/15/2013	11:52:04	24.73
10/15/2013	11:53:03	23.15
10/15/2013	11:54:03	25.71
10/15/2013	11:55:03	26.11
10/15/2013	11:56:03	25.65
10/15/2013	11:57:04	26.27
10/15/2013	11:58:04	28
10/15/2013	11:59:04	27.79
10/15/2013	12:00:04	29.58
10/15/2013	12:01:03	32.75
10/15/2013	12:02:03	33.15
10/15/2013	12:03:03	28.65
10/15/2013	12:04:04	27.44
10/15/2013	12:05:04	27.12
10/15/2013	12:06:04	28.95
10/15/2013	12:07:04	27.85
10/15/2013	12:08:03	24.16
10/15/2013	12:09:03	23.8
10/15/2013	12:10:03	24.68
10/15/2013	12:11:03	24.73
10/15/2013	12:12:04	24.19
10/15/2013	12:13:04	22.35
10/15/2013	12:14:04	22.07
10/15/2013	12:15:05	23.04
10/15/2013	12:16:03	23.37
10/15/2013	12:17:03	23.16
10/15/2013	12:18:03	23.44
10/15/2013	12:19:03	24.88
10/15/2013	12:20:04	25.97

10/15/2013	12:21:04	26.79
10/15/2013	12:22:04	29.86
10/15/2013	12:23:04	29.65
10/15/2013	12:24:03	28.11
10/15/2013	12:25:03	28.32
10/15/2013	12:26:03	28.34
10/15/2013	12:27:04	30.11
10/15/2013	12:28:04	33.06
10/15/2013	12:29:04	31.12
10/15/2013	12:30:04	31.31
10/15/2013	12:31:03	33.58
10/15/2013	12:32:03	33.89
10/15/2013	12:33:03	31.81
10/15/2013	12:34:03	34
10/15/2013	12:35:04	35.41
10/15/2013	12:36:04	34.64
10/15/2013	12:37:04	37.89
10/15/2013	12:38:04	37.35
10/15/2013	12:39:03	37.29
10/15/2013	12:40:03	37.09
Average	1805 sampl	27.22

Test Run 6 End

Test Run 7 Begin. STRATA Version 3.2

Operator: DGG

Plant Name: Enviva Amory

Location: DHM Run 1

THC
ppm

Start Averaging

10/15/2013	13:48:31	107.89
10/15/2013	13:49:32	110.03
10/15/2013	13:50:32	116.38
10/15/2013	13:51:32	120.33
10/15/2013	13:52:32	113.69
10/15/2013	13:53:33	113.15
10/15/2013	13:54:33	116.63
10/15/2013	13:55:31	119.67
10/15/2013	13:56:31	117.6
10/15/2013	13:57:32	111.59
10/15/2013	13:58:32	109.24
10/15/2013	13:59:32	105.16
10/15/2013	14:00:32	102.32
10/15/2013	14:01:33	101.17
10/15/2013	14:02:33	101.12
10/15/2013	14:03:31	103.02
10/15/2013	14:04:32	105.51
10/15/2013	14:05:32	105.07
10/15/2013	14:06:32	105.27
10/15/2013	14:07:32	104.71
10/15/2013	14:08:33	101.88
10/15/2013	14:09:33	104.45
10/15/2013	14:10:31	98.55
10/15/2013	14:11:32	93.63
10/15/2013	14:12:32	103.55
10/15/2013	14:13:32	111.82
10/15/2013	14:14:32	111.66
10/15/2013	14:15:33	114.77
10/15/2013	14:16:33	119.41
10/15/2013	14:17:31	112.88
10/15/2013	14:18:31	100.76
10/15/2013	14:19:32	110.26
10/15/2013	14:20:32	115.88
10/15/2013	14:21:32	121.53
10/15/2013	14:22:32	133.41
10/15/2013	14:23:33	138.3
10/15/2013	14:24:33	135.21
10/15/2013	14:25:31	136.51
10/15/2013	14:26:31	136.73
10/15/2013	14:27:32	132.16

10/15/2013	14:28:32	132.89
10/15/2013	14:29:32	124.24
10/15/2013	14:30:32	121.97
10/15/2013	14:31:33	127.27
10/15/2013	14:32:33	125.19
10/15/2013	14:33:31	122.01
10/15/2013	14:34:32	130.07
10/15/2013	14:35:32	131.88
10/15/2013	14:36:32	131.23
10/15/2013	14:37:32	132.47
10/15/2013	14:38:33	127.67
10/15/2013	14:39:33	124.08
10/15/2013	14:40:31	129.18
10/15/2013	14:41:31	148.63
10/15/2013	14:42:32	142.77
10/15/2013	14:43:32	113.23
10/15/2013	14:44:32	115.39
10/15/2013	14:45:33	127.23
10/15/2013	14:46:33	121.07
10/15/2013	14:47:33	120.79
Average	1794 samp	117.88

Test Run 7 End

Test Run 8 Begin. STRATA Version 3.2

Operator: DGG

Plant Name: Enviva Amory

Location: Aspirator Run 1

THC

ppm

Start Averaging

10/15/2013	17:36:54	337.1
10/15/2013	17:37:55	338.4
10/15/2013	17:38:55	336.2
10/15/2013	17:39:55	341.3
10/15/2013	17:40:56	351.7
10/15/2013	17:41:56	352.1
10/15/2013	17:42:56	351.1
10/15/2013	17:43:54	349.9
10/15/2013	17:44:55	350.1
10/15/2013	17:45:55	351
10/15/2013	17:46:55	353.4
10/15/2013	17:47:55	355.3
10/15/2013	17:48:56	358
10/15/2013	17:49:56	359.9
10/15/2013	17:50:56	360.4
10/15/2013	17:51:54	361.5
10/15/2013	17:52:55	364.1
10/15/2013	17:53:55	365.9
10/15/2013	17:54:55	366.6
10/15/2013	17:55:56	364
10/15/2013	17:56:56	365.4
10/15/2013	17:57:56	366.7
10/15/2013	17:58:54	366.1
10/15/2013	17:59:54	367.5
10/15/2013	18:00:55	370.4
10/15/2013	18:01:55	370.8
10/15/2013	18:02:55	373.5
10/15/2013	18:03:55	374.6
10/15/2013	18:04:56	375.5
10/15/2013	18:05:56	375
10/15/2013	18:06:54	375.7
10/15/2013	18:07:54	372.6
10/15/2013	18:08:55	364.6
10/15/2013	18:09:55	346.5
10/15/2013	18:10:55	321.4
10/15/2013	18:11:56	295.2
10/15/2013	18:12:56	268.5
10/15/2013	18:13:56	260.9
10/15/2013	18:14:54	267.1
10/15/2013	18:15:55	277.6

10/15/2013	18:16:55	293.7
10/15/2013	18:17:55	305
10/15/2013	18:18:55	313.7
10/15/2013	18:19:56	321.6
10/15/2013	18:20:56	325.9
10/15/2013	18:21:56	329.8
10/15/2013	18:22:54	333.8
10/15/2013	18:23:55	337.9
10/15/2013	18:24:55	343.3
10/15/2013	18:25:55	349.5
10/15/2013	18:26:55	354.7
10/15/2013	18:27:56	358.5
10/15/2013	18:28:56	362.4
10/15/2013	18:29:54	365.4
10/15/2013	18:30:54	367.6
10/15/2013	18:31:55	371.2
10/15/2013	18:32:55	373.7
10/15/2013	18:33:55	374
10/15/2013	18:34:55	375.1
10/15/2013	18:35:56	374.5
Average	1805 sampl	347.8

Test Run 8 End

Test Run 9 Begin. STRATA Version 3.2

Operator: DGG

Plant Name: Enviva Amory

Location: Aspirator Run 2

THC

ppm

Start Averaging

10/15/2013	18:50:01	362.1
10/15/2013	18:51:01	364.8
10/15/2013	18:52:02	367.6
10/15/2013	18:53:02	370.4
10/15/2013	18:54:02	373.2
10/15/2013	18:55:03	379.6
10/15/2013	18:56:01	389.5
10/15/2013	18:57:01	397.9
10/15/2013	18:58:01	407.9
10/15/2013	18:59:02	416.4
10/15/2013	19:00:02	417.6
10/15/2013	19:01:02	417.3
10/15/2013	19:02:02	416.8
10/15/2013	19:03:03	418.1
10/15/2013	19:04:01	419.9
10/15/2013	19:05:01	423.1
10/15/2013	19:06:01	424.7
10/15/2013	19:07:02	424.2
10/15/2013	19:08:02	419.1
10/15/2013	19:09:02	415.2
10/15/2013	19:10:02	406.7
10/15/2013	19:11:03	400.6
10/15/2013	19:12:01	392.2
10/15/2013	19:13:01	387.1
10/15/2013	19:14:01	384.1
10/15/2013	19:15:02	382.8
10/15/2013	19:16:02	386.5
10/15/2013	19:17:02	385.7
10/15/2013	19:18:02	383.6
10/15/2013	19:19:03	381
10/15/2013	19:20:01	377.4
10/15/2013	19:21:01	371
10/15/2013	19:22:01	365.9
10/15/2013	19:23:02	365.8
10/15/2013	19:24:02	366.4
10/15/2013	19:25:02	368.3
10/15/2013	19:26:02	370.1
10/15/2013	19:27:02	370.4
10/15/2013	19:28:01	369.9
10/15/2013	19:29:01	369.8

10/15/2013	19:30:01	370.6
10/15/2013	19:31:02	373.7
10/15/2013	19:32:02	376.2
10/15/2013	19:33:02	381.4
10/15/2013	19:34:02	384.9
10/15/2013	19:35:03	387.6
10/15/2013	19:36:01	387.4
10/15/2013	19:37:01	383.3
10/15/2013	19:38:01	377.1
10/15/2013	19:39:02	368.2
10/15/2013	19:40:02	362.2
10/15/2013	19:41:02	357
10/15/2013	19:42:02	349.9
10/15/2013	19:43:01	345.2
10/15/2013	19:44:01	341.2
10/15/2013	19:45:01	337.9
10/15/2013	19:46:01	338.9
10/15/2013	19:47:02	336.4
10/15/2013	19:48:02	332.1
10/15/2013	19:49:02	330.8
Average	1797 samç	380.4

Test Run 9 End

Test Run 10 Begin. STRATA Version 3.2

Operator: DGG

Plant Name: Enviva Amory

Location: Aspirator Run 3

THC

ppm

Start Averaging

10/15/2013	20:01:06	305.7
10/15/2013	20:02:06	309.3
10/15/2013	20:03:07	306.7
10/15/2013	20:04:07	303.9
10/15/2013	20:05:07	301.2
10/15/2013	20:06:07	296.7
10/15/2013	20:07:08	294.1
10/15/2013	20:08:08	295.9
10/15/2013	20:09:06	300.7
10/15/2013	20:10:07	306.1
10/15/2013	20:11:07	310
10/15/2013	20:12:07	311
10/15/2013	20:13:07	308.6
10/15/2013	20:14:07	302
10/15/2013	20:15:08	296.2
10/15/2013	20:16:08	292.6
10/15/2013	20:17:06	288
10/15/2013	20:18:06	282.5
10/15/2013	20:19:07	283.6
10/15/2013	20:20:07	291.5
10/15/2013	20:21:07	299.6
10/15/2013	20:22:07	308.1
10/15/2013	20:23:08	309.4
10/15/2013	20:24:06	307.6
10/15/2013	20:25:06	307.1
10/15/2013	20:26:07	304.6
10/15/2013	20:27:07	304.7
10/15/2013	20:28:07	301.7
10/15/2013	20:29:07	297
10/15/2013	20:30:08	293.4
10/15/2013	20:31:08	289.3
10/15/2013	20:32:06	284.5
10/15/2013	20:33:07	280.3
10/15/2013	20:34:07	276
10/15/2013	20:35:07	272
10/15/2013	20:36:07	268.9
10/15/2013	20:37:08	266.9
10/15/2013	20:38:08	266.7
10/15/2013	20:39:06	267
10/15/2013	20:40:06	268.3

10/15/2013	20:41:07	267.8
10/15/2013	20:42:07	266.1
10/15/2013	20:43:07	260.8
10/15/2013	20:44:07	256.5
10/15/2013	20:45:08	253.7
10/15/2013	20:46:08	250.8
10/15/2013	20:47:06	249.6
10/15/2013	20:48:06	250.4
10/15/2013	20:49:07	249.6
10/15/2013	20:50:07	250.2
10/15/2013	20:51:07	250.4
10/15/2013	20:52:07	247.3
10/15/2013	20:53:08	245.7
10/15/2013	20:54:08	243.1
10/15/2013	20:55:06	242
10/15/2013	20:56:07	239.9
10/15/2013	20:57:07	236.5
10/15/2013	20:58:07	231.5
10/15/2013	20:59:07	228
10/15/2013	21:00:07	227.4
Average	1799 samp	278.3
Test Run 10 End		

Test Run 11 Begin. STRATA Version 3.2

Operator: DGG

Plant Name: Enviva Amory

Location: DHM Run 2

THC
ppm

Start Averaging

10/16/2013	10:55:03	49.7
10/16/2013	10:56:04	43.5
10/16/2013	10:57:04	57.5
10/16/2013	10:58:04	66.6
10/16/2013	10:59:05	68.8
10/16/2013	11:00:05	73.6
10/16/2013	11:01:03	69.8
10/16/2013	11:02:03	65.2
10/16/2013	11:03:04	69.8
10/16/2013	11:04:04	74.2
10/16/2013	11:05:04	74
10/16/2013	11:06:04	70.3
10/16/2013	11:07:05	72.8
10/16/2013	11:08:05	76.2
10/16/2013	11:09:03	76.3
10/16/2013	11:10:03	68.9
10/16/2013	11:11:04	65.8
10/16/2013	11:12:04	68.1
10/16/2013	11:13:04	69
10/16/2013	11:14:05	69.9
10/16/2013	11:15:05	73.9
10/16/2013	11:16:05	73.1
10/16/2013	11:17:03	74.8
10/16/2013	11:18:04	75.9
10/16/2013	11:19:04	68.4
10/16/2013	11:20:04	66.9
10/16/2013	11:21:04	70.6
10/16/2013	11:22:05	77.4
10/16/2013	11:23:05	75.8
10/16/2013	11:24:05	79.2
10/16/2013	11:25:03	78.8
10/16/2013	11:26:04	72.8
10/16/2013	11:27:04	65.8
10/16/2013	11:28:04	75
10/16/2013	11:29:04	89.4
10/16/2013	11:30:05	103.9
10/16/2013	11:31:05	110.1
10/16/2013	11:32:03	116.7
10/16/2013	11:33:03	116.5
10/16/2013	11:34:04	116.1

10/16/2013	11:35:04	113.4
10/16/2013	11:36:04	95.8
10/16/2013	11:37:05	88.7
10/16/2013	11:38:05	93.6
10/16/2013	11:39:05	93.4
10/16/2013	11:40:03	94.6
10/16/2013	11:41:03	93.6
10/16/2013	11:42:04	91.5
10/16/2013	11:43:04	88.6
10/16/2013	11:44:04	82.2
10/16/2013	11:45:04	72.4
10/16/2013	11:46:05	85.6
10/16/2013	11:47:05	92.9
10/16/2013	11:48:05	87.5
10/16/2013	11:49:03	83.9
10/16/2013	11:50:04	84.4
10/16/2013	11:51:04	83.4
10/16/2013	11:52:04	86.2
10/16/2013	11:53:04	88.5
10/16/2013	11:54:05	85.5
Average	1802 samp	80.3

Test Run 11 End

Test Run 12 Begin. STRATA Version 3.2

Operator: DGG
Plant Name: Enviva Amory
Location: DHM Run 3

THC
ppm

Start Averaging

10/16/2013	12:07:40	92.8
10/16/2013	12:08:40	94
10/16/2013	12:09:41	95.8
10/16/2013	12:10:41	91.5
10/16/2013	12:11:41	88.4
10/16/2013	12:12:41	78.2
10/16/2013	12:13:42	77.6
10/16/2013	12:14:40	75.3
10/16/2013	12:15:40	75.5
10/16/2013	12:16:40	75.9
10/16/2013	12:17:41	78.5
10/16/2013	12:18:41	78
10/16/2013	12:19:41	82.9
10/16/2013	12:20:41	88.1
10/16/2013	12:21:42	93.7
10/16/2013	12:22:40	93
10/16/2013	12:23:40	91.7
10/16/2013	12:24:40	92.8
10/16/2013	12:25:41	92.5
10/16/2013	12:26:41	87.6
10/16/2013	12:27:41	87.2
10/16/2013	12:28:41	85.2
10/16/2013	12:29:40	84.7
10/16/2013	12:30:40	88.1
10/16/2013	12:31:40	87.7
10/16/2013	12:32:41	84.8
10/16/2013	12:33:41	79.7
10/16/2013	12:34:41	82.4
10/16/2013	12:35:41	85.7
10/16/2013	12:36:40	87.6
10/16/2013	12:37:40	84.7
10/16/2013	12:38:40	60.6
10/16/2013	12:39:41	59.6
10/16/2013	12:40:41	73.9
10/16/2013	12:41:41	76.5
10/16/2013	12:42:41	79.2
10/16/2013	12:43:42	80.6
10/16/2013	12:44:40	80
10/16/2013	12:45:40	73.8
10/16/2013	12:46:41	68.4

10/16/2013	12:47:41	70.9
10/16/2013	12:48:41	74.7
10/16/2013	12:49:41	75.5
10/16/2013	12:50:41	76.4
10/16/2013	12:51:40	78.9
10/16/2013	12:52:40	85
10/16/2013	12:53:40	89.5
10/16/2013	12:54:41	85.3
10/16/2013	12:55:41	84.6
10/16/2013	12:56:41	87.9
10/16/2013	12:57:41	96.6
10/16/2013	12:58:42	100.4
10/16/2013	12:59:40	100
10/16/2013	13:00:40	95.4
10/16/2013	13:01:40	97
10/16/2013	13:02:41	104.2
10/16/2013	13:03:41	106.8
10/16/2013	13:04:41	108
10/16/2013	13:05:42	100
10/16/2013	13:06:40	94.7
Average	1820 samp	85.6
Test Run 12 End		

Test Run 13 Begin. STRATA Version 3.2

Operator: DGG
Plant Name: Enviva Amory
Location: DHM Run 4

THC
ppm

Start Averaging

10/16/2013	13:21:35	81.3
10/16/2013	13:22:35	90.1
10/16/2013	13:23:36	82.9
10/16/2013	13:24:36	76.5
10/16/2013	13:25:36	93.5
10/16/2013	13:26:36	109.2
10/16/2013	13:27:35	116
10/16/2013	13:28:35	111.4
10/16/2013	13:29:35	111.3
10/16/2013	13:30:35	103.7
10/16/2013	13:31:36	107.3
10/16/2013	13:32:36	107.4
10/16/2013	13:33:36	111.1
10/16/2013	13:34:36	113.2
10/16/2013	13:35:35	117.8
10/16/2013	13:36:35	118.7
10/16/2013	13:37:35	118.1
10/16/2013	13:38:35	117.6
10/16/2013	13:39:36	122.1
10/16/2013	13:40:36	118
10/16/2013	13:41:36	105.1
10/16/2013	13:42:36	100.8
10/16/2013	13:43:35	93.8
10/16/2013	13:44:35	87.8
10/16/2013	13:45:35	79.1
10/16/2013	13:46:35	73.2
10/16/2013	13:47:36	67.9
10/16/2013	13:48:36	66.4
10/16/2013	13:49:36	67.9
10/16/2013	13:50:34	71.2
10/16/2013	13:51:35	72.9
10/16/2013	13:52:35	77.4
10/16/2013	13:53:35	76.7
10/16/2013	13:54:36	71.8
10/16/2013	13:55:36	68.2
10/16/2013	13:56:36	66.4
10/16/2013	13:57:36	66.5
10/16/2013	13:58:35	69.6
10/16/2013	13:59:35	71.7
10/16/2013	14:00:35	71.6

10/16/2013	14:01:35	67.6
10/16/2013	14:02:36	63
10/16/2013	14:03:36	70.8
10/16/2013	14:04:36	75.9
10/16/2013	14:05:34	79
10/16/2013	14:06:35	82.1
10/16/2013	14:07:35	82.3
10/16/2013	14:08:35	83.2
10/16/2013	14:09:36	83.4
10/16/2013	14:10:36	81.3
10/16/2013	14:11:36	76.7
10/16/2013	14:12:36	76.3
10/16/2013	14:13:35	80.1
10/16/2013	14:14:35	84
10/16/2013	14:15:35	87.6
10/16/2013	14:16:35	86.6
10/16/2013	14:17:36	87.3
10/16/2013	14:18:36	85.2
10/16/2013	14:19:36	82.5
10/16/2013	14:20:34	85.2
Average	1804 samp	87.6
Test Run 13 End		

Enviva - Amory
Run 1

Date: 14-Oct
Run Time: 1515-1615

Parameter	Symbol	Dryer Stack
		THC (as C ₃ H ₈)
		ppm _w

Analyzer Calibration Error - Calibration Standards		
Zero Gas	$C_{v, zero}$	0.0
Low-Level Gas	$C_{v, low}$	27.99
Mid-Level Gas	$C_{v, mid}$	50
High-Level Gas	$C_{v, high}$	86.13
Calibration Span	CS	100

Analyzer Calibration Error - Instrument Response		
Zero Gas	$C_{Dir, zero}$	0.1
Low-Level Gas	$C_{Dir, low}$	28.3
Mid-Level Gas	$C_{Dir, mid}$	50.12
High-Level Gas	$C_{Dir, high}$	86.2

1415

Analyzer Calibration Error - Results (Percent of Span)		
Zero Gas	ACE_{zero}	0.1
Low-Level Gas	ACE_{low}	1.1
Mid-Level Gas	ACE_{mid}	0.2
High-Level Gas	ACE_{high}	0.1
Specification	ACE_{spec}	±5

System Calibrations - Instrument Response		
Initial Zero	$C_{s, zero (pre)}$	0.1
Final Zero	$C_{s, zero (post)}$	0.24
Upscale Gas Standard	C_{MA}	50.0
Initial Upscale	$C_{v, up (pre)}$	50.12
Final Upscale	$C_{v, up (post)}$	50.1

System Bias - Results (Percent)		
Zero (pre)	$SB_i (zero)$	0.0
Zero (post)	$SB_{final} (zero)$	0.1
Upscale (pre)	$SB_i (upscale)$	0.0
Upscale (post)	$SB_{final} (upscale)$	0.0
Specification	SB_{spec}	NA

System Drift - Results (Percent)		
Zero	D_{zero}	0.1
Upscale	$D_{upscale}$	0.0
Specification	D_{spec}	±3

Response Test - Results (seconds)		
Upscale Test		NA
Zero Test		NA
Response Time		30

Calibration Correction		
Raw Average	C_{ave}	29.6
Bias Average - Zero	C_0	NA
Bias Average - Upscale	C_M	NA
Corrected Run Average	C_{Gas}	29.6

Enviva - Amory
Run 2

Date: 14-Oct
Run Time: 1649-1749

Parameter	Symbol	Dryer Stack
		THC (as C ₃ H ₈)
		ppm _w

Analyzer Calibration Error - Instrument Response		
Zero Gas	$C_{Dir, zero}$	0.1
Low-Level Gas	$C_{Dir, low}$	28.3
Mid-Level Gas	$C_{Dir, mid}$	50.1
High-Level Gas	$C_{Dir, high}$	86.2

Analyzer Calibration Error - Results (Percent of Span)		
Zero Gas	ACE_{zero}	0.1
Low-Level Gas	ACE_{low}	1.1
Mid-Level Gas	ACE_{mid}	0.2
High-Level Gas	ACE_{high}	0.1
Specification	ACE_{spec}	±5

System Calibrations - Instrument Response		
Initial Zero	$C_{s, zero (pre)}$	0.24
Final Zero	$C_{s, zero (post)}$	0.3
Upscale Gas Standard	C_{MA}	50.0
Initial Upscale	$C_{v, up (pre)}$	50.1
Final Upscale	$C_{v, up (post)}$	50.2

System Bias - Results (Percent)		
Zero (pre)	$SB_i (zero)$	0.1
Zero (post)	$SB_{final} (zero)$	0.2
Upscale (pre)	$SB_i (upscale)$	0.0
Upscale (post)	$SB_{final} (upscale)$	0.1
Specification	SB_{spec}	NA

System Drift - Results (Percent)		
Zero	D_{zero}	0.1
Upscale	$D_{upscale}$	0.1
Specification	D_{spec}	±3

Response Test - Results (seconds)		
Upscale Test		NA
Zero Test		NA
Response Time		30

Calibration Correction		
Raw Average	C_{ave}	21.88
Bias Average - Zero	C_0	N/A
Bias Average - Upscale	C_M	N/A
Corrected Run Average	C_{Gas}	21.9

Enviva - Amory
Run 3

Date: 14-Oct
Run Time: 1758-1900
paused for two minutes

Parameter	Symbol	Dryer Stack
		THC (as C ₃ H ₈)
		ppm _w

Analyzer Calibration Error - Instrument Response		
Zero Gas	$C_{Dir, zero}$	0.1
Low-Level Gas	$C_{Dir, low}$	28.3
Mid-Level Gas	$C_{Dir, mid}$	50.1
High-Level Gas	$C_{Dir, high}$	86.2

Analyzer Calibration Error - Results (Percent of Span)		
Zero Gas	ACE_{zero}	0.1
Low-Level Gas	ACE_{low}	1.1
Mid-Level Gas	ACE_{mid}	0.2
High-Level Gas	ACE_{high}	0.1
Specification	ACE_{spec}	±5

System Calibrations - Instrument Response		
Initial Zero	$C_{s, zero (pre)}$	0.30
Final Zero	$C_{s, zero (post)}$	0.34
Upscale Gas Standard	C_{MA}	50.0
Initial Upscale	$C_{v, up (pre)}$	50.2
Final Upscale	$C_{v, up (post)}$	50.18

System Bias - Results (Percent)		
Zero (pre)	$SB_{i (zero)}$	0.2
Zero (post)	$SB_{final (zero)}$	0.2
Upscale (pre)	$SB_{i (upscale)}$	0.1
Upscale (post)	$SB_{final (upscale)}$	0.1
Specification	SB_{spec}	NA

System Drift - Results (Percent)		
Zero	D_{zero}	0.0
Upscale	$D_{upscale}$	0.0
Specification	D_{spec}	±3

Response Test - Results (seconds)		
Upscale Test		NA
Zero Test		NA
Response Time		30

Calibration Correction		
Raw Average	C_{ave}	22.20
Bias Average - Zero	C_0	N/A
Bias Average - Upscale	C_M	N/A
Corrected Run Average	C_{Gas}	22.2

Enviva - Amory
Run 4

Date: 15-Oct
Run Time: 0911-1011

Parameter	Symbol	GHM
		THC (as C ₃ H ₈) ppm _w

Analyzer Calibration Error - Calibration Standards		
Zero Gas	$C_{v, zero}$	0.0
Low-Level Gas	$C_{v, low}$	27.99
Mid-Level Gas	$C_{v, mid}$	50
High-Level Gas	$C_{v, high}$	86.13
Calibration Span	CS	100

Analyzer Calibration Error - Instrument Response		
Zero Gas	$C_{Dir, zero}$	0.1
Low-Level Gas	$C_{Dir, low}$	27.65
Mid-Level Gas	$C_{Dir, mid}$	50
High-Level Gas	$C_{Dir, high}$	86.2

Analyzer Calibration Error - Results (Percent of Span)		
Zero Gas	ACE_{zero}	0.1
Low-Level Gas	ACE_{low}	-1.2
Mid-Level Gas	ACE_{mid}	0.0
High-Level Gas	ACE_{high}	0.1
Specification	ACE_{spec}	±5

System Calibrations - Instrument Response		
Initial Zero	$C_{s, zero (pre)}$	0.1
Final Zero	$C_{s, zero (post)}$	0.1
Upscale Gas Standard	C_{MA}	50.0
Initial Upscale	$C_{v, up (pre)}$	50
Final Upscale	$C_{v, up (post)}$	50.08

System Bias - Results (Percent)		
Zero (pre)	$SB_i (zero)$	0.0
Zero (post)	$SB_{final} (zero)$	0.0
Upscale (pre)	$SB_i (upscale)$	0.0
Upscale (post)	$SB_{final} (upscale)$	0.1
Specification	SB_{spec}	NA

System Drift - Results (Percent)		
Zero	D_{zero}	0.0
Upscale	$D_{upscale}$	0.1
Specification	D_{spec}	±3

Response Test - Results (seconds)		
Upscale Test		NA
Zero Test		NA
Response Time		30

Calibration Correction		
Raw Average	C_{ave}	17.5
Bias Average - Zero	C_0	NA
Bias Average - Upscale	C_M	NA
Corrected Run Average	C_{Gas}	17.5

Enviva - Amory
Run 5

Date: 15-Oct
Run Time: 1022-1122

Parameter	Symbol	GHM
		THC (as C ₃ H ₈)
		ppm _w

Analyzer Calibration Error - Instrument Response		
Zero Gas	$C_{Dir, zero}$	0.1
Low-Level Gas	$C_{Dir, low}$	27.7
Mid-Level Gas	$C_{Dir, mid}$	50.0
High-Level Gas	$C_{Dir, high}$	86.2

Analyzer Calibration Error - Results (Percent of Span)		
Zero Gas	ACE_{zero}	0.1
Low-Level Gas	ACE_{low}	-1.2
Mid-Level Gas	ACE_{mid}	0.0
High-Level Gas	ACE_{high}	0.1
Specification	ACE_{spec}	±5

System Calibrations - Instrument Response		
Initial Zero	$C_{s, zero (pre)}$	0.10
Final Zero	$C_{s, zero (post)}$	-0.05
Upscale Gas Standard	C_{MA}	50.0
Initial Upscale	$C_{v, up (pre)}$	50.08
Final Upscale	$C_{v, up (post)}$	50.54

System Bias - Results (Percent)		
Zero (pre)	$SB_{i (zero)}$	0.0
Zero (post)	$SB_{final (zero)}$	-0.2
Upscale (pre)	$SB_{i (upscale)}$	0.1
Upscale (post)	$SB_{final (upscale)}$	0.5
Specification	SB_{spec}	NA

System Drift - Results (Percent)		
Zero	D_{zero}	-0.2
Upscale	$D_{upscale}$	0.5
Specification	D_{spec}	±3

Response Test - Results (seconds)		
Upscale Test		NA
Zero Test		NA
Response Time		30

Calibration Correction		
Raw Average	C_{ave}	21.19
Bias Average - Zero	C_0	NA
Bias Average - Upscale	C_M	NA
Corrected Run Average	C_{Gas}	21.2

Enviva - Amory
Run 6

Date: 15-Oct
Run Time: 1140-1240

Parameter	Symbol	GHM
		THC (as C ₃ H ₈)
		ppm _w

Analyzer Calibration Error - Instrument Response		
Zero Gas	$C_{Dir, zero}$	0.1
Low-Level Gas	$C_{Dir, low}$	27.65
Mid-Level Gas	$C_{Dir, mid}$	50.0
High-Level Gas	$C_{Dir, high}$	86.2

Analyzer Calibration Error - Results (Percent of Span)		
Zero Gas	ACE_{zero}	0.1
Low-Level Gas	ACE_{low}	-1.2
Mid-Level Gas	ACE_{mid}	0.0
High-Level Gas	ACE_{high}	0.1
Specification	ACE_{spec}	±5

System Calibrations - Instrument Response		
Initial Zero	$C_{s, zero (pre)}$	-0.05
Final Zero	$C_{s, zero (post)}$	0.05
Upscale Gas Standard	C_{MA}	50.0
Initial Upscale	$C_{v, up (pre)}$	50.54
Final Upscale	$C_{v, up (post)}$	50.25

System Bias - Results (Percent)		
Zero (pre)	$SB_{i (zero)}$	-0.2
Zero (post)	$SB_{final (zero)}$	-0.1
Upscale (pre)	$SB_{i (upscale)}$	0.5
Upscale (post)	$SB_{final (upscale)}$	0.3
Specification	SB_{spec}	NA

System Drift - Results (Percent)		
Zero	D_{zero}	0.1
Upscale	$D_{upscale}$	-0.3
Specification	D_{spec}	±3

Response Test - Results (seconds)		
Upscale Test		NA
Zero Test		NA
Response Time		30

Calibration Correction		
Raw Average	C_{ave}	27.22
Bias Average - Zero	C_D	NA
Bias Average - Upscale	C_M	NA
Corrected Run Average	C_{Gas}	27.2

Enviva - Amory
Run 8

Date: 15-Oct
Run Time: 1736-1836

Parameter	Symbol	Aspirator
		THC (as C ₃ H ₈)
		ppm _w

Analyzer Calibration Error - Calibration Standards		
Zero Gas	$C_{v, zero}$	0.0
Low-Level Gas	$C_{v, low}$	258.1
Mid-Level Gas	$C_{v, mid}$	507.1
High-Level Gas	$C_{v, high}$	836.9
Calibration Span	CS	1000

Analyzer Calibration Error - Instrument Response		
Zero Gas	$C_{Dir, zero}$	0.4
Low-Level Gas	$C_{Dir, low}$	259
Mid-Level Gas	$C_{Dir, mid}$	506.1
High-Level Gas	$C_{Dir, high}$	837

1650

Analyzer Calibration Error - Results (Percent of Span)		
Zero Gas	ACE_{zero}	0.0
Low-Level Gas	ACE_{low}	0.3
Mid-Level Gas	ACE_{mid}	-0.2
High-Level Gas	ACE_{high}	0.0
Specification	ACE_{spec}	±5

System Calibrations - Instrument Response		
Initial Zero	$C_{s, zero (pre)}$	0.4
Final Zero	$C_{s, zero (post)}$	1.2
Upscale Gas Standard	C_{MA}	507.1
Initial Upscale	$C_{v, up (pre)}$	506.1
Final Upscale	$C_{v, up (post)}$	507.5

System Bias - Results (Percent)		
Zero (pre)	$SB_i (zero)$	0.0
Zero (post)	$SB_{final} (zero)$	0.1
Upscale (pre)	$SB_i (upscale)$	0.0
Upscale (post)	$SB_{final} (upscale)$	0.1
Specification	SB_{spec}	NA

System Drift - Results (Percent)		
Zero	D_{zero}	0.1
Upscale	$D_{upscale}$	0.1
Specification	D_{spec}	±3

Response Test - Results (seconds)		
Upscale Test		NA
Zero Test		NA
Response Time		30

Calibration Correction		
Raw Average	C_{avg}	347.8
Bias Average - Zero	C_0	N/A
Bias Average - Upscale	C_M	N/A
Corrected Run Average	C_{Gas}	347.8

Enviva - Amory
Run 9

Date: 15-Oct
Run Time: 1849-1949

Parameter	Symbol	Aspirator
		THC (as C ₃ H ₈)
		ppm _w

Analyzer Calibration Error - Instrument Response		
Zero Gas	$C_{Dir, zero}$	0.4
Low-Level Gas	$C_{Dir, low}$	259.0
Mid-Level Gas	$C_{Dir, mid}$	506.1
High-Level Gas	$C_{Dir, high}$	837.0

Analyzer Calibration Error - Results (Percent of Span)		
Zero Gas	ACE_{zero}	0.0
Low-Level Gas	ACE_{low}	0.3
Mid-Level Gas	ACE_{mid}	-0.2
High-Level Gas	ACE_{high}	0.0
Specification	ACE_{spec}	±5

System Calibrations - Instrument Response		
Initial Zero	$C_{s, zero (pre)}$	1.20
Final Zero	$C_{s, zero (post)}$	1.35
Upscale Gas Standard	C_{MA}	507.1
Initial Upscale	$C_{v, up (pre)}$	507.5
Final Upscale	$C_{v, up (post)}$	507.9

System Bias - Results (Percent)		
Zero (pre)	$SB_{i (zero)}$	0.1
Zero (post)	$SB_{final (zero)}$	0.1
Upscale (pre)	$SB_{i (upscale)}$	0.1
Upscale (post)	$SB_{final (upscale)}$	0.2
Specification	SB_{spec}	NA

System Drift - Results (Percent)		
Zero	D_{zero}	0.0
Upscale	$D_{upscale}$	0.0
Specification	D_{spec}	±3

Response Test - Results (seconds)		
Upscale Test		NA
Zero Test		NA
Response Time		30

Calibration Correction		
Raw Average	C_{ave}	380.40
Bias Average - Zero	C_0	N/A
Bias Average - Upscale	C_M	N/A
Corrected Run Average	C_{Gas}	380.4

Enviva - Amory
Run 10

Date: 15-Oct
Run Time: 2000-2100

Parameter	Symbol	Aspirator
		THC (as C ₃ H ₈)
		ppm _w

Analyzer Calibration Error - Instrument Response

Zero Gas	$C_{Dir, zero}$	0.4
Low-Level Gas	$C_{Dir, low}$	259.0
Mid-Level Gas	$C_{Dir, mid}$	506.1
High-Level Gas	$C_{Dir, high}$	837.0

Analyzer Calibration Error - Results (Percent of Span)

Zero Gas	ACE_{zero}	0.0
Low-Level Gas	ACE_{low}	0.3
Mid-Level Gas	ACE_{mid}	-0.2
High-Level Gas	ACE_{high}	0.0
Specification	ACE_{spec}	±5

System Calibrations - Instrument Response

Initial Zero	$C_{s, zero (pre)}$	1.35
Final Zero	$C_{s, zero (post)}$	1
Upscale Gas Standard	C_{MA}	507.1
Initial Upscale	$C_{v, up (pre)}$	507.9
Final Upscale	$C_{v, up (post)}$	508.2

System Bias - Results (Percent)

Zero (pre)	$SB_i (zero)$	0.1
Zero (post)	$SB_{final} (zero)$	0.1
Upscale (pre)	$SB_i (upscale)$	0.2
Upscale (post)	$SB_{final} (upscale)$	0.2
Specification	SB_{spec}	NA

System Drift - Results (Percent)

Zero	D_{zero}	0.0
Upscale	$D_{upscale}$	0.0
Specification	D_{spec}	±3

Response Test - Results (seconds)

Upscale Test		NA
Zero Test		NA
Response Time		30

Calibration Correction

Raw Average	C_{ave}	278.30
Bias Average - Zero	C_o	N/A
Bias Average - Upscale	C_M	N/A
Corrected Run Average	C_{Gas}	278.3

Enviva - Amory
Run 7

Date: 15-Oct
Run Time: 1348-1448

Parameter	Symbol	Dry Hammermill	
		THC (as C ₃ H ₈)	
		ppm _w	

Analyzer Calibration Error - Calibration Standards			
Zero Gas	$C_{v, zero}$	0.0	0.0
Low-Level Gas	$C_{v, low}$	27.99	258.1
Mid-Level Gas	$C_{v, mid}$	50	507.1
High-Level Gas	$C_{v, high}$	86.13	836.9
Calibration Span	CS	100	1000

Analyzer Calibration Error - Instrument Response			
Zero Gas	$C_{Dir, zero}$	0.1	0.1
Low-Level Gas	$C_{Dir, low}$	28.1	258.6
Mid-Level Gas	$C_{Dir, mid}$	50.24	507.78
High-Level Gas	$C_{Dir, high}$	86.45	836.8

Analyzer Calibration Error - Results (Percent of Span)			
Zero Gas	ACE_{zero}	0.1	0.0
Low-Level Gas	ACE_{low}	0.4	0.2
Mid-Level Gas	ACE_{mid}	0.5	0.1
High-Level Gas	ACE_{high}	0.3	0.0
Specification	ACE_{spec}	±5	±5

System Calibrations - Instrument Response			
Initial Zero	$C_{s, zero (pre)}$	0.1	0.1
Final Zero	$C_{s, zero (post)}$	0.15	0.15
Upscale Gas Standard	C_{MA}	50.0	507.1
Initial Upscale	$C_{v, up (pre)}$	50.24	507.78
Final Upscale	$C_{v, up (post)}$	50.55	508

System Bias - Results (Percent)			
Zero (pre)	$SB_{i (zero)}$	0.0	0.0
Zero (post)	$SB_{final (zero)}$	0.1	0.0
Upscale (pre)	$SB_{i (upscale)}$	0.0	0.0
Upscale (post)	$SB_{final (upscale)}$	0.3	0.0
Specification	SB_{spec}	NA	NA

System Drift - Results (Percent)			
Zero	D_{zero}	0.1	0.0
Upscale	$D_{upscale}$	0.3	0.0
Specification	D_{spec}	±3	±3

Response Test - Results (seconds)		
Upscale Test		NA
Zero Test		NA
Response Time		30

Calibration Correction		
Raw Average	C_{ave}	117.9
Bias Average - Zero	C_0	N/A
Bias Average - Upscale	C_M	N/A
Corrected Run Average	C_{Gas}	117.9

Enviva - Amory
Run 11

Date: 16-Oct
Run Time: 1054-1154

Parameter	Symbol	Dry Hammemill	
		THC (as C ₃ H ₈)	
		ppm _w	

Analyzer Calibration Error - Calibration Standards			
Zero Gas	$C_{v, zero}$	0.0	0.0
Low-Level Gas	$C_{v, low}$	28.0	258.1
Mid-Level Gas	$C_{v, mid}$	50.0	507.1
High-Level Gas	$C_{v, high}$	86.1	836.9
Calibration Span	CS	100.0	1000.0

Analyzer Calibration Error - Instrument Response			
Zero Gas	$C_{Dr, zero}$	0.1	0.1
Low-Level Gas	$C_{Dr, low}$	28.3	259.0
Mid-Level Gas	$C_{Dr, mid}$	50.5	508.0
High-Level Gas	$C_{Dr, high}$	86.6	837.0

Analyzer Calibration Error - Results (Percent of Span)			
Zero Gas	ACE_{zero}	0.1	0.0
Low-Level Gas	ACE_{low}	1.1	0.3
Mid-Level Gas	ACE_{mid}	1.0	0.2
High-Level Gas	ACE_{high}	0.5	0.0
Specification	ACE_{spec}	±5	±5

System Calibrations - Instrument Response			
Initial Zero	$C_{s, zero (pre)}$	0.10	0.10
Final Zero	$C_{s, zero (post)}$	-0.1	-0.1
Upscale Gas Standard	C_{MA}	50.0	507.1
Initial Upscale	$C_{v, up (pre)}$	50.5	508
Final Upscale	$C_{v, up (post)}$	50.78	508.5

System Bias - Results (Percent)			
Zero (pre)	$SB_{i (zero)}$	0.0	0.0
Zero (post)	$SB_{final (zero)}$	-0.2	0.0
Upscale (pre)	$SB_{i (upscale)}$	0.0	0.0
Upscale (post)	$SB_{final (upscale)}$	0.3	0.1
Specification	SB_{spec}	NA	NA

System Drift - Results (Percent)			
Zero	D_{zero}	-0.2	0.0
Upscale	$D_{upscale}$	0.3	0.1
Specification	D_{spec}	±3	±3

Response Test - Results (seconds)		
Upscale Test		NA
Zero Test		NA
Response Time		30

Calibration Correction		
Raw Average	C_{ave}	80.30
Bias Average - Zero	C_{δ}	N/A
Bias Average - Upscale	C_M	N/A
Corrected Run Average	C_{Gas}	80.3

Enviva - Amory
Run 12

Date: 16-Oct
Run Time: 1207-1307

Parameter	Symbol	Dry Hammermill	
		THC (as C ₃ H ₈)	
		ppm _w	

Analyzer Calibration Error - Calibration Standards			
Zero Gas	$C_{v, zero}$	0.0	0.0
Low-Level Gas	$C_{v, low}$	28.0	258.1
Mid-Level Gas	$C_{v, mid}$	50.0	507.1
High-Level Gas	$C_{v, high}$	86.1	836.9
Calibration Span	CS	100.0	1000.0

Analyzer Calibration Error - Instrument Response			
Zero Gas	$C_{Dir, zero}$	0.1	0.1
Low-Level Gas	$C_{Dir, low}$	28.3	259.0
Mid-Level Gas	$C_{Dir, mid}$	50.5	508.0
High-Level Gas	$C_{Dir, high}$	86.6	837.0

Analyzer Calibration Error - Results (Percent of Span)			
Zero Gas	ACE_{zero}	0.1	0.0
Low-Level Gas	ACE_{low}	1.1	0.3
Mid-Level Gas	ACE_{mid}	1.0	0.2
High-Level Gas	ACE_{high}	0.5	0.0
Specification	ACE_{spec}	±5	±5

System Calibrations - Instrument Response			
Initial Zero	$C_{s, zero (pre)}$	-0.10	-0.10
Final Zero	$C_{s, zero (post)}$	0.1	0.1
Upscale Gas Standard	C_{MA}	50.0	507.1
Initial Upscale	$C_{v, up (pre)}$	50.78	508.5
Final Upscale	$C_{v, up (post)}$	50.7	508

System Bias - Results (Percent)			
Zero (pre)	$SB_i (zero)$	-0.2	0.0
Zero (post)	$SB_{final} (zero)$	0.0	0.0
Upscale (pre)	$SB_i (upscale)$	0.3	0.1
Upscale (post)	$SB_{final} (upscale)$	0.2	0.0
Specification	SB_{spec}	NA	NA

System Drift - Results (Percent)			
Zero	D_{zero}	0.2	0.0
Upscale	$D_{upscale}$	-0.1	-0.1
Specification	D_{spec}	±3	±3

Response Test - Results (seconds)		
Upscale Test		NA
Zero Test		NA
Response Time		30

Calibration Correction		
Raw Average	C_{ave}	85.60
Bias Average - Zero	C_o	N/A
Bias Average - Upscale	C_M	N/A
Corrected Run Average	C_{Gas}	85.6

Enviva - Amory
Run 13

Date: 16-Oct
Run Time: 1321-1421

Parameter	Symbol	Dry Hammermill THC (as C ₃ H ₈) ppm _w	
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Analyzer Calibration Error - Calibration Standards			
Zero Gas	$C_{v, zero}$	0.0	0.0
Low-Level Gas	$C_{v, low}$	28.0	258.1
Mid-Level Gas	$C_{v, mid}$	50.0	507.1
High-Level Gas	$C_{v, high}$	86.1	836.9
Calibration Span	CS	100.0	1000.0

Analyzer Calibration Error - Instrument Response			
Zero Gas	$C_{Dir, zero}$	0.1	0.1
Low-Level Gas	$C_{Dir, low}$	28.3	259.0
Mid-Level Gas	$C_{Dir, mid}$	50.5	508.0
High-Level Gas	$C_{Dir, high}$	86.6	837.0

Analyzer Calibration Error - Results (Percent of Span)			
Zero Gas	ACE_{zero}	0.1	0.0
Low-Level Gas	ACE_{low}	1.1	0.3
Mid-Level Gas	ACE_{mid}	1.0	0.2
High-Level Gas	ACE_{high}	0.5	0.0
Specification	ACE_{spec}	±5	±5

System Calibrations - Instrument Response			
Initial Zero	$C_{s, zero (pre)}$	0.10	0.10
Final Zero	$C_{s, zero (post)}$	0.1	0.1
Upscale Gas Standard	C_{MA}	0.0	507.1
Initial Upscale	$C_{v, up (pre)}$	50.70	508.00
Final Upscale	$C_{v, up (post)}$	50.6	508

System Bias - Results (Percent)			
Zero (pre)	$SB_i (zero)$	0.0	0.0
Zero (post)	$SB_{final} (zero)$	0.0	0.0
Upscale (pre)	$SB_i (upscale)$	0.2	0.0
Upscale (post)	$SB_{final} (upscale)$	0.1	0.0
Specification	SB_{spec}	NA	NA

System Drift - Results (Percent)			
Zero	D_{zero}	0.0	0.0
Upscale	$D_{upscale}$	-0.1	0.0
Specification	D_{spec}	±3	±3

Response Test - Results (seconds)			
Upscale Test		0	NA
Zero Test		0	NA
Response Time		30	30

Calibration Correction		
Raw Average	C_{ave}	87.60
Bias Average - Zero	C_0	NA
Bias Average - Upscale	C_M	NA
Corrected Run Average	C_{Gas}	87.6

APPENDIX C
Method 320 Data

Company ACT
 Analyst Initials STG
 Parameters EPA Method 320

Client # Amory
 Job # 0913-173
 sample # 4

Sample ID / Concentration (ppmv wet)

Compound	Data Runs					
	Dryer Stack Run 1	Dryer Stack Run 2	Dryer Stack Run 3	GHM Run 1	GHM Run 2	GHM Run 3
Acrolein	2.679 ND	2.679 ND	2.679 ND	2.679 ND	2.679 ND	2.679 ND
Formaldehyde	0.725	0.507	0.647	0.205 ND	0.205 ND	0.205 ND
Methanol	3.172	1.615	2.141	2.622	2.686	2.909
Phenol	3.648 ND	3.648 ND	3.648 ND	3.648 ND	3.648 ND	3.648 ND
Propionaldehyde	0.558 ND	0.558 ND	0.558 ND	0.558 ND	0.558 ND	0.558 ND
acetaldehyde	0.867 ND	0.867 ND	0.867 ND	0.867 ND	0.867 ND	0.867 ND

Compound	Data Runs					
	DHM Run 1	Aspirator Run 1	Aspirator Run 2	Aspirator Run 3	DHM Run 2	DHM Run 3
Acrolein	2.725 J	2.679 ND	2.679 ND	2.679 ND	2.679 J	2.679 J
Formaldehyde	0.205 ND	0.838	0.821	0.794	0.205 ND	0.205 ND
Methanol	0.999	2.611	2.861	2.696	0.693	0.803
Phenol	3.648 ND	3.648 ND	3.648 ND	3.648 ND	3.648 ND	3.648 ND
Propionaldehyde	0.558 ND	0.558 ND	0.558 ND	0.558 ND	0.558 ND	0.558 ND
acetaldehyde	0.867 ND	0.867 ND	0.867 ND	0.867 ND	0.867 ND	0.867 ND

Compound	Data Runs			
	DHM Run 4	Aspirator Run 1	Aspirator Run 2	Aspirator Run 3
Acrolein	2.679 J	2.679 ND	2.679 ND	2.679 ND
Formaldehyde	0.205 ND	0.838	0.821	0.794
Methanol	0.858	2.611	2.861	2.696
Phenol	3.648 ND	3.648 ND	3.648 ND	3.648 ND

Company ACT
Analyst Initials STG
Parameters EPA Method 320

Client # Amory
Job # 0913-173
sample # 4

Compound	Sample ID / Concentration (ppmv wet)
Propionaldehyde	0.558 ND
acetaldehyde	0.867 ND

Company ACT
 Analyst initials JCG
 Parameter EPA Method 120

Client # Amury
 Job # 0913-173
 Sample # 4

Minimum Detectable Concentrations

Run	Average SEC	Acrolein (ppm)	Formaldehyde (ppm)	Methanol (ppm)	Phenol (ppm)	Propionaldehyde (ppm)	acetaldehyde (ppm)
Dryer Stack Run 1		1.788	0.097	0.283	2.150	0.164	0.525
Dryer Stack Run 2		1.686	0.094	0.351	1.936	0.157	0.501
Dryer Stack Run 3		1.795	0.099	0.281	2.206	0.164	0.531
GHM Run 1		1.133	0.067	0.083	1.663	0.114	0.360
GHM Run 2		1.130	0.067	0.085	1.708	0.115	0.348
GHM Run 3		1.114	0.067	0.085	1.756	0.121	0.345
DHM Run 1		1.074	0.083	0.079	1.544	0.246	0.339
Aspirator Run 1		1.476	0.182	0.139	2.029	0.674	0.579
Aspirator Run 2		1.465	0.201	0.152	1.986	0.752	0.590
Aspirator Run 3		1.446	0.158	0.129	1.982	0.552	0.525
DHM Run 2		1.083	0.072	0.072	1.538	0.186	0.330
DHM Run 3		1.090	0.073	0.075	1.580	0.190	0.333
DHM Run 4		1.131	0.074	0.080	1.651	0.194	0.333
	Average SEC over Runs (ppm):	1.339	0.103	0.138	1.824	0.279	0.433
	MDC(ppm):	2.679	0.205	0.276	3.648	0.558	0.867

Company	ACT
Analyst Initials	STG
Parameters	EPA Method 320

Client #	Amory
Job #	0913-173
sample #	4

Data

Sm --Spiked Data

Date	Method	FileName	Methanol (ppm)	SEC (ppm)	Sulfur_Hexafluoride (ppm)	SEC (ppm)
10/14/2013 13:54	0917-173_Non-Phenol_D	13_10_14_1354_43_956	8.83	0.281	0.222	0.01400
10/14/2013 13:55	0917-173_Non-Phenol_D	13_10_14_1355_44_666	8.64	0.281	0.228	0.01400
10/14/2013 13:56	0917-173_Non-Phenol_D	13_10_14_1356_45_486	8.38	0.271	0.223	0.01300
10/14/2013 13:57	0917-173_Non-Phenol_D	13_10_14_1357_46_206	8.43	0.264	0.223	0.01200
10/14/2013 13:58	0917-173_Non-Phenol_D	13_10_14_1358_47_056	8.42	0.274	0.222	0.01300
10/14/2013 13:59	0917-173_Non-Phenol_D	13_10_14_1359_47_806	8.26	0.286	0.222	0.01400
10/14/2013 14:00	0917-173_Non-Phenol_D	13_10_14_1400_48_546	2.81	0.301	0.0340	0.0150

Avg. Conc. (ppm) **7.68**

0.196

Su -- Native Conc. Of analyte

Date	Method	FileName	Methanol (ppm)	SEC (ppm)	Sulfur_Hexafluoride (ppm)	SEC (ppm)
10/14/2013 14:06	0917-173_Non-Phenol_D	13_10_14_1406_53_137	1.51	0.310	0.0070	0.0160
10/14/2013 14:07	0917-173_Non-Phenol_D	13_10_14_1407_53_877	1.36	0.306	0.0030	0.0160
10/14/2013 14:08	0917-173_Non-Phenol_D	13_10_14_1408_54_687	1.39	0.305	0.0050	0.0160
10/14/2013 14:09	0917-173_Non-Phenol_D	13_10_14_1409_55_387	1.32	0.296	0.0080	0.0150
10/14/2013 14:10	0917-173_Non-Phenol_D	13_10_14_1410_56_217	1.34	0.286	0.0090	0.0150
10/14/2013 14:11	0917-173_Non-Phenol_D	13_10_14_1411_56_937	1.40	0.287	0.0030	0.01400
10/14/2013 14:12	0917-173_Non-Phenol_D	13_10_14_1412_57_727	1.41	0.294	0.00200	0.0150

Avg. Conc. (ppm) **1.39**

0.0053

$$\text{Recovery (\%)} = \frac{\text{Sm} - \text{Su}(1-\text{DF})}{\text{DF} \times \text{Cs}}$$

$$\text{Ce} = \text{DF} \times \text{Cs} + \text{Su}(1-\text{DF})$$

Sm	7.68 ppm	Mean concentration of spiked analyte
Su	1.39 ppm	Native concentration of analyte
DF	0.0656 %	Dilution Factor (Target < 10%)
CS	99 ppm	Cylinder of spiked gas
	2.91 ppm	Cylinder of tracer gas (SF6)
Ce	7.82 ppm	Expected concentration of analyte

Recovery (%) **97.9%** 70 - 130%

Direct Spike Cylinder

Date	Method	FileName	Methanol (ppm)	SEC (ppm)	Sulfur_Hexafluoride (ppm)	SEC (ppm)
10/14/2013 12:51	0917-173_Non-Phenol_D	13_10_14_1251_51_320	99	0.823	2.91	0.0190
10/14/2013 12:52	0917-173_Non-Phenol_D	13_10_14_1252_52_020	99	0.822	2.91	0.0210
10/14/2013 12:53	0917-173_Non-Phenol_D	13_10_14_1253_52_871	99	0.824	2.91	0.0180
10/14/2013 12:54	0917-173_Non-Phenol_D	13_10_14_1254_53_581	100	0.816	2.91	0.0200
10/14/2013 12:55	0917-173_Non-Phenol_D	13_10_14_1255_54_371	100	0.825	2.92	0.0200
10/14/2013 12:56	0917-173_Non-Phenol_D	13_10_14_1256_55_131	100	0.827	2.91	0.0200
10/14/2013 12:57	0917-173_Non-Phenol_D	13_10_14_1257_55_951	100	0.836	2.91	0.0210

Avg. Conc. (ppm) **99**

2.91

Company: ACT Analyst Initials: STG Parameters: EPA Method 320

Client # Amory Job # 0913-173 Sample # 4

Table with 13 columns: Date, Method, Filename, DF, Acrolein (ppm), SEC (ppm), Formaldehyde (ppm), SEC (ppm), Methanol (ppm), SEC (ppm), Phenol (ppm), SEC (ppm), Propionaldehyde (ppm), SEC (ppm), acetaldehyde (ppm), SEC (ppm). Rows include individual sample data and an Average Conc. (ppm) row.

Table titled 'Aspirator Run 3' with 13 columns: Date, Method, Filename, DF, Acrolein (ppm), SEC (ppm), Formaldehyde (ppm), SEC (ppm), Methanol (ppm), SEC (ppm), Phenol (ppm), SEC (ppm), Propionaldehyde (ppm), SEC (ppm), acetaldehyde (ppm), SEC (ppm). Rows include individual sample data and an Average Conc. (ppm) row.

Table titled 'DHM Run 2' with 13 columns: Date, Method, Filename, DF, Acrolein (ppm), SEC (ppm), Formaldehyde (ppm), SEC (ppm), Methanol (ppm), SEC (ppm), Phenol (ppm), SEC (ppm), Propionaldehyde (ppm), SEC (ppm), acetaldehyde (ppm), SEC (ppm). Rows include individual sample data and an Average Conc. (ppm) row.

Company ACT
 Analyst initials STG
 Parameters EPA Method 302

Client # Amery
 Job # 0813-173
 Sample # 4

10/16/2013 13:24	173_Non-Phe 13_10_16_1324_05_200	1	2.679	1.091	0.205	0.072	0.851	0.077	3.648	1.598	0.558	0.207	0.867	0.338
10/16/2013 13:25	173_Non-Phe 13_10_16_1325_06_110	1	2.679	1.065	0.205	0.076	0.926	0.078	3.648	1.604	0.558	0.232	0.867	0.320
10/16/2013 13:26	173_Non-Phe 13_10_16_1326_06_890	1	2.679	1.114	0.205	0.080	0.982	0.079	3.648	1.613	0.558	0.244	0.867	0.327
10/16/2013 13:27	173_Non-Phe 13_10_16_1327_07_651	1	2.679	1.172	0.205	0.076	0.993	0.079	3.648	1.615	0.558	0.232	0.867	0.339
10/16/2013 13:28	173_Non-Phe 13_10_16_1328_08_371	1	2.679	1.178	0.205	0.080	1.037	0.081	3.648	1.633	0.558	0.231	0.867	0.343
10/16/2013 13:29	173_Non-Phe 13_10_16_1329_09_101	1	2.679	1.160	0.205	0.077	0.920	0.081	3.648	1.656	0.558	0.239	0.867	0.341
10/16/2013 13:30	173_Non-Phe 13_10_16_1330_09_901	1	2.679	1.135	0.205	0.080	0.940	0.083	3.648	1.670	0.558	0.230	0.867	0.341
10/16/2013 13:31	173_Non-Phe 13_10_16_1331_10_691	1	2.679	1.152	0.205	0.083	0.911	0.081	3.648	1.674	0.558	0.231	0.867	0.355
10/16/2013 13:32	173_Non-Phe 13_10_16_1332_11_411	1	2.679	1.101	0.205	0.080	0.954	0.084	3.648	1.682	0.558	0.231	0.867	0.338
10/16/2013 13:33	173_Non-Phe 13_10_16_1333_12_131	1	2.679	1.237	0.205	0.080	0.912	0.082	3.648	1.676	0.558	0.239	0.867	0.353
10/16/2013 13:34	173_Non-Phe 13_10_16_1334_12_951	1	2.679	1.143	0.205	0.082	0.937	0.084	3.648	1.667	0.558	0.248	0.867	0.352
10/16/2013 13:35	173_Non-Phe 13_10_16_1335_13_701	1	2.679	1.140	0.205	0.082	1.005	0.083	3.648	1.653	0.558	0.245	0.867	0.341
10/16/2013 13:36	173_Non-Phe 13_10_16_1336_14_461	1	2.679	1.188	0.205	0.085	0.929	0.082	3.648	1.648	0.558	0.247	0.867	0.340
10/16/2013 13:37	173_Non-Phe 13_10_16_1337_15_271	1	2.679	1.127	0.205	0.081	1.013	0.082	3.648	1.652	0.558	0.246	0.867	0.345
10/16/2013 13:38	173_Non-Phe 13_10_16_1338_16_941	1	2.679	1.121	0.205	0.084	1.067	0.081	3.648	1.655	0.558	0.257	0.867	0.342
10/16/2013 13:39	173_Non-Phe 13_10_16_1339_16_752	1	2.679	1.070	0.205	0.080	0.951	0.081	3.648	1.634	0.558	0.234	0.867	0.327
10/16/2013 13:40	173_Non-Phe 13_10_16_1340_17_442	1	2.679	1.140	0.205	0.076	0.950	0.083	3.648	1.634	0.558	0.218	0.867	0.350
10/16/2013 13:41	173_Non-Phe 13_10_16_1341_18_272	1	2.679	1.124	0.205	0.075	0.874	0.079	3.648	1.636	0.558	0.215	0.867	0.340
10/16/2013 13:42	173_Non-Phe 13_10_16_1342_18_982	1	2.679	1.106	0.205	0.076	0.824	0.080	3.648	1.625	0.558	0.200	0.867	0.330
10/16/2013 13:43	173_Non-Phe 13_10_16_1343_19_792	1	2.679	1.074	0.205	0.070	0.787	0.076	3.648	1.625	0.558	0.181	0.867	0.326
10/16/2013 13:44	173_Non-Phe 13_10_16_1344_20_512	1	2.679	1.102	0.205	0.071	0.724	0.079	3.648	1.615	0.558	0.173	0.867	0.342
10/16/2013 13:45	173_Non-Phe 13_10_16_1345_21_232	1	2.679	1.027	0.205	0.069	0.766	0.080	3.648	1.637	0.558	0.163	0.867	0.336
10/16/2013 13:46	173_Non-Phe 13_10_16_1346_22_022	1	2.679	1.092	0.205	0.071	0.780	0.081	3.648	1.653	0.558	0.160	0.867	0.335
10/16/2013 13:47	173_Non-Phe 13_10_16_1347_22_792	1	2.679	1.159	0.205	0.067	0.898	0.080	3.648	1.671	0.558	0.160	0.867	0.342
10/16/2013 13:48	173_Non-Phe 13_10_16_1348_23_542	1	2.679	1.138	0.205	0.068	0.842	0.082	3.648	1.686	0.558	0.164	0.867	0.346
10/16/2013 13:49	173_Non-Phe 13_10_16_1349_24_252	1	2.679	1.145	0.205	0.068	0.842	0.084	3.648	1.692	0.558	0.179	0.867	0.329
10/16/2013 13:50	173_Non-Phe 13_10_16_1350_25_052	1	2.679	1.181	0.205	0.076	0.886	0.084	3.648	1.692	0.558	0.179	0.867	0.341
10/16/2013 13:51	173_Non-Phe 13_10_16_1351_25_803	1	2.679	1.140	0.205	0.069	0.840	0.082	3.648	1.694	0.558	0.179	0.867	0.337
10/16/2013 13:52	173_Non-Phe 13_10_16_1352_26_503	1	2.679	1.105	0.205	0.074	0.795	0.081	3.648	1.675	0.558	0.179	0.867	0.341
10/16/2013 13:53	173_Non-Phe 13_10_16_1353_27_313	1	2.679	1.177	0.205	0.069	0.885	0.079	3.648	1.675	0.558	0.165	0.867	0.337
10/16/2013 13:54	173_Non-Phe 13_10_16_1354_28_013	1	2.679	1.152	0.205	0.069	0.902	0.079	3.648	1.674	0.558	0.162	0.867	0.345
10/16/2013 13:55	173_Non-Phe 13_10_16_1355_28_823	1	2.679	1.186	0.205	0.066	0.868	0.083	3.648	1.673	0.558	0.161	0.867	0.343
10/16/2013 13:56	173_Non-Phe 13_10_16_1356_29_593	1	2.679	1.103	0.205	0.070	0.913	0.082	3.648	1.681	0.558	0.160	0.867	0.336
10/16/2013 13:57	173_Non-Phe 13_10_16_1357_30_333	1	2.679	1.129	0.205	0.073	0.868	0.083	3.648	1.699	0.558	0.170	0.867	0.356
10/16/2013 13:58	173_Non-Phe 13_10_16_1358_31_053	1	2.679	1.104	0.205	0.070	0.968	0.084	3.648	1.702	0.558	0.170	0.867	0.346
10/16/2013 13:59	173_Non-Phe 13_10_16_1359_31_863	1	2.679	1.263	0.205	0.070	0.881	0.084	3.648	1.692	0.558	0.162	0.867	0.346
10/16/2013 14:00	173_Non-Phe 13_10_16_1400_32_603	1	2.679	1.189	0.205	0.071	0.772	0.083	3.648	1.680	0.558	0.157	0.867	0.341
10/16/2013 14:01	173_Non-Phe 13_10_16_1401_33_323	1	2.679	1.147	0.205	0.068	0.749	0.082	3.648	1.656	0.558	0.159	0.867	0.341
10/16/2013 14:02	173_Non-Phe 13_10_16_1402_34_073	1	2.679	1.143	0.205	0.074	0.823	0.079	3.648	1.642	0.558	0.174	0.867	0.342
10/16/2013 14:03	173_Non-Phe 13_10_16_1403_34_794	1	2.679	1.079	0.205	0.067	0.857	0.078	3.648	1.632	0.558	0.187	0.867	0.350
10/16/2013 14:04	173_Non-Phe 13_10_16_1404_35_484	1	2.679	1.046	0.205	0.074	0.855	0.078	3.648	1.631	0.558	0.192	0.867	0.349
10/16/2013 14:05	173_Non-Phe 13_10_16_1405_36_184	1	2.679	1.091	0.205	0.076	0.825	0.079	3.648	1.631	0.558	0.185	0.867	0.338
10/16/2013 14:06	173_Non-Phe 13_10_16_1406_36_954	1	2.679	1.115	0.205	0.075	0.840	0.079	3.648	1.636	0.558	0.185	0.867	0.338
10/16/2013 14:07	173_Non-Phe 13_10_16_1407_37_704	1	2.679	1.192	0.205	0.077	0.828	0.079	3.648	1.631	0.558	0.190	0.867	0.349
10/16/2013 14:08	173_Non-Phe 13_10_16_1408_38_404	1	2.679	1.097	0.205	0.072	0.788	0.078	3.648	1.639	0.558	0.185	0.867	0.338
10/16/2013 14:09	173_Non-Phe 13_10_16_1409_39_214	1	2.679	1.132	0.205	0.073	0.789	0.080	3.648	1.651	0.558	0.180	0.867	0.342
10/16/2013 14:10	173_Non-Phe 13_10_16_1410_39_914	1	2.679	1.171	0.205	0.069	0.789	0.081	3.648	1.670	0.558	0.187	0.867	0.343
10/16/2013 14:11	173_Non-Phe 13_10_16_1411_40_714	1	2.679	1.163	0.205	0.074	0.812	0.078	3.648	1.681	0.558	0.196	0.867	0.352
10/16/2013 14:12	173_Non-Phe 13_10_16_1412_41_424	1	2.679	1.165	0.205	0.075	0.824	0.082	3.648	1.664	0.558	0.182	0.867	0.350
10/16/2013 14:13	173_Non-Phe 13_10_16_1413_42_174	1	2.679	1.102	0.205	0.074	0.826	0.081	3.648	1.663	0.558	0.188	0.867	0.350
10/16/2013 14:14	173_Non-Phe 13_10_16_1414_42_985	1	2.679	1.164	0.205	0.076	0.743	0.079	3.648	1.656	0.558	0.189	0.867	0.332
10/16/2013 14:15	173_Non-Phe 13_10_16_1415_43_685	1	2.679	1.088	0.205	0.074	0.793	0.077	3.648	1.652	0.558	0.198	0.867	0.332
10/16/2013 14:16	173_Non-Phe 13_10_16_1416_44_315	1	2.679	1.115	0.205	0.074	0.693	0.079	3.648	1.636	0.558	0.192	0.867	0.339
10/16/2013 14:17	173_Non-Phe 13_10_16_1417_45_225	1	2.679	1.147	0.205	0.075	0.662	0.078	3.648	1.629	0.558	0.187	0.867	0.347
10/16/2013 14:18	173_Non-Phe 13_10_16_1418_45_945	1	2.679	1.111	0.205	0.072	0.713	0.077	3.648	1.646	0.558	0.187	0.867	0.332
10/16/2013 14:19	173_Non-Phe 13_10_16_1419_46_755	1	2.679	1.208	0.205	0.077	0.841	0.081	3.648	1.663	0.558	0.203	0.867	0.357
Average Conc. (ppm):		1	2.679	1.131	0.205	0.074	0.858	0.080	3.648	1.651	0.558	0.194	0.867	0.339

Table with columns: Location, Date, Method, Filenames, Label 1-8 (Analyte), and ppm values. Includes sub-headers like 'Area (ppm)', 'SEC (ppm)', 'Methanol (ppm)', 'Phenol (ppm)', 'Propylendiol (ppm)', 'Sulfur', 'Acetate', and 'Glycol'. The table contains multiple rows of data points.

Table with 11 columns: Date, Method, Parameter, Label 1-Analyte, Label 2-Analyte, Label 3-Analyte/Spice, Label 4-Analyte, Label 5-Analyte, Label Influx, Label 6-Analyte. Rows include data for 10/20/2013 and 10/21/2013, listing various chemical compounds and their corresponding analytical values.

Location Disc. # Start/Stop Instrument

Table with columns: Date, Method, Filename, DF, Area (ppm), SEC (ppm), Formula/Weight, SEC (ppm), Method, SEC (ppm), SEC (ppm), Phenol, SEC (ppm), 4-Analyze, SEC (ppm), 5-Analyte, SEC (ppm), Sulfur, Hexafluoride (ppm), SEC (ppm), Acetylaldehyde (ppm), SEC (ppm), Pome (pp). Rows include file names like 10/A/2013 13:25 0017-170... and various numerical values.

Table with columns: Location, Date, Method, Phenomena, DF, Acruclim (ppm), SEC (ppm), Label 1 Analyte, Label 2 Analyte, Label 3 Analyte, Label 4 Analyte, Label 5 Analyte, Label 6 Analyte, Label 7 Analyte, Label 8 Analyte. Rows contain detailed analytical data for various dates and methods.

Table with columns: Location, Date, Method, Plane, CF, Amien, SIC (ppm), SIC (ppm), Formaldhyde (ppm), Methanol (ppm), SIC (ppm), Phenol (ppm), SIC (ppm), 5-Analyte, SIC (ppm), Sulfur Hexafluoride (ppm), SIC (ppm), acetaldhyde (ppm), SIC (ppm), pinene (ppm). The table contains multiple data rows for various locations and dates, including 'Data Run 10 Start A' and 'Stop' markers.

Location	Disk	#	Start/Stop	Instrument	Date	Method	Run	12 Start	A	Label 2-Analyte	Label 3-Analyte	Label 4-Analyte/Spike	Label 5-Analyte	Label 6-Analyte	Label 7-Tracer	Label 8-Analyte												
										OF	SEC (ppm)	SEC (ppm)	Formaldehyde (ppm)	SEC (ppm)	Methanol (ppm)	SEC (ppm)	Phenol (ppm)	SEC (ppm)	Propionaldehyde (ppm)	SEC (ppm)	Sulfuric Acid/Hexafluoride (ppm)	SEC (ppm)	anarsaldehyde (ppm)	SEC (ppm)	pinene (ppm)			
10/16/2013 13:09	0917-178	3013	10_16_1309_13_091							-0.338	0.810	-0.354	0.888	0.77200	0.0359	-0.118	0.8000			-3.69	0.15	-0.00000	0.00000	0.00	0.340	0.103		
10/16/2013 13:09	0917-178	3013	10_16_1309_13_091							-1.143	1.101	-0.997	0.664	0.0130	0.0230	0.089	0.6900			-2.23	0.11	-0.00000	0.00000	-0.04	0.314	0.266	5.338	
10/16/2013 13:11	0917-178	3013	10_16_1311_13_091							-1.416	0.750	-0.957	0.044	0.0050	0.0190	-0.145	0.9300			-0.55	0.07	-0.00100	0.00000	-0.24	0.214	0.443		
10/16/2013 13:12	0917-178	3013	10_16_1312_13_091							-1.105	0.838	-0.908	0.047	0.288	0.0320	0.088	0.244			-0.58	0.09	0.00000	0.00000	-0.01	0.246	0.382		
10/16/2013 13:13	0917-178	3013	10_16_1313_13_091							-1.19	1.056	-0.908	0.079	1.019	0.0700	0.133	1.079			-0.41	0.24	-0.00000	0.00000	-0.04	0.314	0.463		
10/16/2013 13:15	0917-178	3013	10_16_1315_13_091							-0.34	1.033	-0.90700	0.079	1.054	0.0700	0.106	1.097			-0.24	0.24	-0.00000	0.00000	-0.14	0.321	0.463		
10/16/2013 13:16	0917-178	3013	10_16_1316_13_091							0.145	1.013	-0.923	0.044	0.855	0.0750	0.127	1.180			-2.90	0.21	-0.00700	0.00500	-0.52	0.323	0.338		
10/16/2013 13:17	0917-178	3013	10_16_1317_13_091							0.42	0.950	-0.92000	0.074	0.922	0.0740	0.120	1.050			-0.14	0.19	-0.00000	0.00000	-0.48	0.309	0.467		
10/16/2013 13:19	0917-178	3013	10_16_1319_13_091							-0.314	0.716	-0.903	0.050	0.789	0.0720	0.109	1.038			-1.60	0.18	-0.00000	0.00000	-0.14	0.332	0.492		
10/16/2013 13:20	0917-178	3013	10_16_1320_13_091							-0.01	1.066	-0.903	0.064	0.701	0.0719	0.101	1.122			-1.93	0.17	-0.00500	0.00500	-1.01	0.305	0.371		
10/16/2013 13:21	0917-178	3013	10_16_1321_13_091							0.01	0.992	-0.909	0.069	0.747	0.0719	0.108	1.022			-0.89	0.19	-0.00000	0.00000	-0.67	0.304	0.364		
10/16/2013 13:22	0917-178	3013	10_16_1322_13_091							-0.02	1.044	-0.908	0.064	0.724	0.0700	0.104	1.024			-1.17	0.17	-0.00000	0.00000	-0.72	0.311	0.469		
10/16/2013 13:23	0917-178	3013	10_16_1323_13_091							-0.20	1.071	-0.90400	0.064	0.702	0.0700	0.104	1.027			-1.48	0.18	-0.00700	0.00000	-0.80	0.289	0.247		
10/16/2013 13:24	0917-178	3013	10_16_1324_13_091							-0.20	1.047	-0.903	0.069	0.816	0.0720	0.108	1.033			-1.90	0.20	-0.00000	0.00000	-0.57	0.325	0.230		
10/16/2013 13:25	0917-178	3013	10_16_1325_13_091							0.24	1.022	-0.90500	0.074	0.849	0.0740	0.114	1.038			-2.35	0.22	-0.00000	0.00000	-1.20	0.307	0.291		
10/16/2013 13:26	0917-178	3013	10_16_1326_13_091							-0.293	1.040	-0.907	0.079	0.841	0.0720	0.112	1.047			-2.88	0.23	-0.00900	0.00500	-0.49	0.318	0.378		
10/16/2013 13:27	0917-178	3013	10_16_1327_13_091							0.33	1.124	-0.907	0.075	0.952	0.0760	0.117	1.049			-2.38	0.22	-0.00600	0.00000	-0.67	0.327	0.289		
10/16/2013 13:28	0917-178	3013	10_16_1328_13_091							0.25	1.130	-0.904	0.072	0.964	0.0760	0.120	1.048			-2.32	0.22	-0.00600	0.00000	-0.84	0.328	0.317		
10/16/2013 13:29	0917-178	3013	10_16_1329_13_091							0.44	1.122	-0.903	0.074	0.963	0.0770	0.123	1.048			-1.74	0.21	-0.00900	0.00400	-0.67	0.328	0.293		
10/16/2013 13:30	0917-178	3013	10_16_1330_13_091							0.61	1.000	-0.90500	0.077	0.902	0.0790	0.118	1.002			-2.19	0.22	-0.00700	0.00000	-0.77	0.327	0.152		
10/16/2013 13:31	0917-178	3013	10_16_1331_13_091							-1.45	1.105	-0.901	0.080	0.874	0.0790	0.121	1.005			-2.14	0.22	-0.00600	0.00000	-0.51	0.335	0.163		
10/16/2013 13:32	0917-178	3013	10_16_1332_13_091							-0.35	1.050	-0.90100	0.077	0.915	0.0800	0.123	1.012			-2.22	0.22	-0.00400	0.00400	-0.62	0.326	0.199		
10/16/2013 13:33	0917-178	3013	10_16_1333_13_091							-0.49	1.138	-0.90000	0.077	0.875	0.0790	0.126	1.007			-1.88	0.23	-0.00600	0.00000	-0.35	0.336	0.021		
10/16/2013 13:34	0917-178	3013	10_16_1334_13_091							-0.60	1.066	-0.901	0.078	0.888	0.0810	0.128	0.999			-2.68	0.24	-0.00000	0.00000	-0.51	0.335	0.163		
10/16/2013 13:35	0917-178	3013	10_16_1335_13_091							1.16	1.000	-0.90000	0.079	0.864	0.0790	0.121	1.006			-2.82	0.24	-0.00400	0.00400	-0.3	0.328	0.1479		
10/16/2013 13:36	0917-178	3013	10_16_1336_13_091							0.34	1.139	-0.901	0.081	0.892	0.0790	0.125	1.041			-2.17	0.24	-0.00700	0.00000	-1.67	0.336	0.079		
10/16/2013 13:37	0917-178	3013	10_16_1337_13_091							-0.70	1.041	-0.903	0.078	0.861	0.0790	0.126	1.046			-2.28	0.24	-0.00000	0.00000	-0.48	0.336	0.151		
10/16/2013 13:38	0917-178	3013	10_16_1338_13_091							0.02	1.075	-0.90000	0.080	0.924	0.0790	0.135	1.048			-2.50	0.25	-0.00000	0.00000	-0.1	0.329	0.1842		
10/16/2013 13:39	0917-178	3013	10_16_1339_13_091							1.18	1.027	-0.903	0.077	0.912	0.0790	0.136	1.057			-2.24	0.25	-0.00400	0.00000	-0.72	0.318	0.2549		
10/16/2013 13:40	0917-178	3013	10_16_1340_13_091							0.225	1.089	-0.90000	0.079	0.921	0.0790	0.140	1.046			-1.90	0.25	-0.00700	0.00000	-0.61	0.336	0.147		
10/16/2013 13:41	0917-178	3013	10_16_1341_13_091							-0.77	1.078	-0.903	0.079	0.910	0.0790	0.140	1.046			-2.16	0.25	-0.00000	0.00000	-0.28	0.338	0.174		
10/16/2013 13:42	0917-178	3013	10_16_1342_13_091							-0.67	1.041	-0.904	0.079	0.920	0.0790	0.140	1.057			-1.74	0.26	-0.01200	0.00000	-1.06	0.317	0.234		
10/16/2013 13:43	0917-178	3013	10_16_1343_13_091							0.09	1.090	-0.903	0.080	0.798	0.0790	0.139	1.059			-1.81	0.27	-0.00000	0.00000	-0.58	0.332	0.212		
10/16/2013 13:44	0917-178	3013	10_16_1344_13_091							-0.81	1.062	-0.90400	0.080	0.892	0.0790	0.141	1.049			-2.17	0.26	-0.00000	0.00000	-0.64	0.336	0.184		
10/16/2013 13:45	0917-178	3013	10_16_1345_13_091							-0.361	0.948	-0.903	0.086	0.735	0.0790	0.139	1.070			-1.07	0.26	-0.00200	0.00000	-0.54	0.308	0.193		
10/16/2013 13:46	0917-178	3013	10_16_1346_13_091							0.09	1.090	-0.903	0.080	0.798	0.0790	0.139	1.059			-1.81	0.27	-0.00000	0.00000	-0.58	0.332	0.212		
10/16/2013 13:47	0917-178	3013	10_16_1347_13_091							-0.35	1.047	-0.903	0.082	0.749	0.0790	0.137	1.056			-1.17	0.25	-0.00000	0.00000	-0.38	0.322	0.180		
10/16/2013 13:48	0917-178	3013	10_16_1348_13_091							0.723	1.062	-0.903	0.086	0.864	0.0790	0.143	1.048			-1.12	0.26	-0.00000	0.00000	-0.71	0.323	0.204		
10/16/2013 13:49	0917-178	3013	10_16_1349_13_091							-0.88	1.008	-0.907	0.086	0.808	0.0790	0.142	1.022			-1.35	0.26	-0.00200	0.00000	-0.31	0.331	0.202		
10/16/2013 13:50	0917-178	3013	10_16_1350_13_091							-1.45	1.113	-0.903	0.086	0.868	0.0790	0.142	1.022			-1.27	0.27	-0.00000	0.00000	-0.27	0.331	0.198		
10/16/2013 13:51	0917-178	3013	10_16_1351_13_091							-1.88	1.008	-0.907	0.086	0.808	0.0790	0.142	1.022			-1.16	0.26	-0.00000	0.00000	-0.88	0.315	0.219		
10/16/2013 13:52	0917-178	3013	10_16_1352_13_091							-1.34	1.000	-0.903	0.071	0.780	0.0790	0.139	1.005			-1.38	0.27	-0.00100	0.00000	-0.58	0.328	0.2162		
10/16/2013 13:53	0917-178	3013	10_16_1353_13_091							-0.12	1.083	-0.902	0.080	0.868	0.0790	0.140	1.046			-1.63	0.28	-0.00000	0.00000	-0.81	0.336	0.188		
10/16/2013 13:54	0917-178	3013	10_16_1354_13_091							0.811	1.048	-0.903	0.086	0.868	0.0790	0.140	1.046			-1.13	0.26	-0.00000	0.00000	-0.89	0.318	0.197		
10/16/2013 13:55	0917-178	3013	10_16_1355_13_091							-1.36	1.037	-0.90000	0.080	0.892	0.0790	0.140	1.046			-1.83	0.26	-0.00000	0.00000	-0.58	0.328	0.2162		
10/16/2013 13:56	0917-178	3013	10_16_1356_13_091							-0.87	1.084	-0.903	0.080	0.892	0.0790	0.140	1.046			-1.52								

Location	Date	Method	Rename	DF	Acrofen (ppm)	Label 1-Analyte	SEC (ppm)	Formaldehyde (ppm)	SEC (ppm)	Methanol (ppm)	Label 3-Analyte/Spike	SEC (ppm)	Phenol (ppm)	Label 4-Analyte	SEC (ppm)	Propionaldehyde (ppm)	Label 5-Analyte	SEC (ppm)	Tracer	Label 6-Analyte	SEC (ppm)	acetoldehyde (ppm)	SEC (ppm)	pinene (ppm)	
10/16/2013	1530	0917-170	NO13_10_16_1530_06_151	1	4.662	2.102	0.009	0.136	0.026	0.010	0.010	0.014	1.710	-0.213	0.213	-0.0000	0.0000	0.00	0.67	0.26	0.00	0.67	0.26		
10/16/2013	1531	0917-170	NO13_10_16_1531_00_151	1	4.160	2.114	0.119	0.118	-0.060	0.104	0.064	1.107	0.113	0.210	-0.0330	0.0000	-0.0330	0.0000	1.13	0.89	0.46	0.00	0.89	0.46	
10/16/2013	1534	0917-170	NO13_10_16_1534_00_61	1	0.871	2.450	-0.0400	0.132	-0.200	0.100	0.090	1.680	0.032	0.213	-0.0000	0.0000	-0.0000	0.0000	0.00	0.72	0.27	0.00	0.72	0.27	
10/16/2013	1535	0917-170	NO13_10_16_1535_10_041	1	1.890	2.445	-0.1500	0.126	-0.0100	0.100	0.020	1.678	0.139	0.213	0.0000	0.0000	0.0000	0.0000	0.596	0.72	0.36	0.00	0.72	0.36	
10/16/2013	1535	0917-170	NO13_10_16_1535_21_211	1	3.008	2.137	-0.1500	0.127	-0.071	0.100	0.030	1.666	-0.310	0.213	-0.0000	0.0000	-0.0000	0.0000	1.214	0.70	0.39	0.00	0.70	0.39	
10/16/2013	1535	0917-170	NO13_10_16_1535_27_041	1	2.099	2.132	0.132	0.131	-0.200	0.101	1.052	1.693	0.032	0.212	-0.0000	0.0000	-0.0000	0.0000	0.18	0.69	0.31	0.00	0.69	0.31	
10/16/2013	1535	0917-170	NO13_10_16_1535_33_611	1	3.090	2.414	-0.227	0.124	0.1300	0.096	1.140	1.673	0.04	0.208	0.00100	0.0000	0.00100	0.0000	0.50	0.72	0.39	0.00	0.72	0.39	
10/16/2013	1535	0917-170	NO13_10_16_1535_39_711	1	4.402	2.498	-0.008	0.129	-0.010	0.108	0.011	1.688	-0.319	0.213	-0.0000	0.0000	-0.0000	0.0000	0.211	0.70	0.39	0.00	0.70	0.39	
10/16/2013	1535	0917-170	NO13_10_16_1535_40_151	1	1.12	2.100	0.241	0.132	0.130	0.100	2.684	1.652	0.01	0.209	-0.0010	0.0000	-0.0010	0.0000	0.368	0.67	0.38	0.00	0.67	0.38	
10/16/2013	1535	0917-170	NO13_10_16_1535_51_121	1	3.518	2.437	0.094	0.128	-0.090	0.103	0.611	1.617	0.127	0.216	0.0010	0.0000	0.0010	0.0000	1.14	0.71	0.38	0.00	0.71	0.38	
10/16/2013	1535	0917-170	NO13_10_16_1535_58_311	1	2.601	1.971	-0.110	0.123	0.123	0.101	0.771	1.590	-0.043	0.212	0.0000	0.0000	0.0000	0.0000	0.06	0.84	0.20	0.00	0.84	0.20	
10/16/2013	1535	0917-170	NO13_10_16_1535_61_001	1	7.020	2.051	0.168	0.122	-0.140	0.096	0.890	1.591	0.18	0.217	-0.0000	0.0000	-0.0000	0.0000	0.663	0.72	0.25	0.00	0.72	0.25	
10/16/2013	1535	0917-170	NO13_10_16_1535_61_611	1	0.848	2.333	0.160	0.128	0.154	0.0970	0.647	1.611	0.361	0.211	0.0010	0.0000	0.0010	0.0000	0.126	0.70	0.39	0.00	0.70	0.39	
10/16/2013	1535	0917-170	NO13_10_16_1535_65_001	1	4.249	2.332	-0.112	0.122	0.100	0.100	0.040	1.576	-0.097	0.208	-0.0010	0.0000	-0.0010	0.0000	1.18	0.70	0.39	0.00	0.70	0.39	
10/16/2013	1535	0917-170	NO13_10_16_1535_65_051	1	0.325	2.455	0.020	0.125	0.007	0.099	0.819	1.579	0.056	0.211	0.0010	0.0000	0.0010	0.0000	0.09	0.73	0.29	0.00	0.73	0.29	
10/16/2013	1535	0917-170	NO13_10_16_1535_69_201	1	-2.098	2.479	0.142	0.130	0.173	0.1010	0.840	1.600	0.211	0.210	0.0000	0.0000	0.0000	0.0000	0.952	0.72	0.39	0.00	0.72	0.39	
10/16/2013	1535	0917-170	NO13_10_16_1535_70_501	1	0.033	2.247	0.070	0.129	-0.179	0.097	1.062	1.557	0.413	0.208	-0.0010	0.0000	-0.0010	0.0000	0.898	0.67	0.38	0.00	0.67	0.38	
10/16/2013	1535	0917-170	NO13_10_16_1535_71_051	1	4.185	2.254	0.158	0.127	-0.141	0.103	0.126	1.569	0.001	0.213	-0.0000	0.0000	-0.0000	0.0000	0.57	0.68	0.33	0.00	0.68	0.33	
10/16/2013	1535	0917-170	NO13_10_16_1535_72_691	1	0.5790	2.453	0.0780	0.124	0.223	0.0950	0.855	1.524	0.383	0.208	-0.0000	0.0000	-0.0000	0.0000	0.53	0.69	0.29	0.00	0.69	0.29	
10/16/2013	1535	0917-170	NO13_10_16_1535_73_981	1	1.453	2.579	0.140	0.123	0.149	0.1010	0.799	1.583	-0.130	0.212	0.0000	0.0000	0.0000	0.0000	0.11	0.74	0.21	0.00	0.74	0.21	
10/16/2013	1535	0917-170	NO13_10_16_1535_74_181	1	1.984	2.495	0.001	0.130	0.210	0.0910	0.840	1.539	0.021	0.213	-0.0000	0.0000	-0.0000	0.0000	0.379	0.71	0.32	0.00	0.71	0.32	
10/16/2013	1535	0917-170	NO13_10_16_1535_76_381	1	7.04	2.138	-0.359	0.129	0.280	0.0910	0.810	1.547	-1.074	0.207	-0.0080	0.0000	-0.0080	0.0000	1.31	0.65	0.34	0.00	0.65	0.34	
10/16/2013	1535	0917-170	NO13_10_16_1535_77_481	1	4.25	2.178	0.208	0.131	0.229	0.0980	0.737	1.591	0.000	0.210	0.0000	0.0000	0.0000	0.0000	1.58	0.69	0.23	0.00	0.69	0.23	
10/16/2013	1535	0917-170	NO13_10_16_1535_78_681	1	4.185	2.254	0.158	0.128	0.211	0.099	0.715	1.550	-0.005	0.209	-0.0000	0.0000	-0.0000	0.0000	0.525	0.69	0.185	0.00	0.69	0.185	
10/16/2013	1535	0917-170	NO13_10_16_1535_78_881	1	2.403	2.414	0.355	0.128	0.180	0.0910	0.545	1.584	-0.274	0.211	-0.0040	0.0000	-0.0040	0.0000	0.780	0.71	0.182	0.00	0.71	0.182	
10/16/2013	1535	0917-170	NO13_10_16_1535_81_081	1	0.901	2.390	-0.400	0.132	-0.124	0.117	0.748	1.682	-0.242	0.216	-0.0020	0.0000	-0.0020	0.0000	-0.765	0.70	0.212	0.00	0.70	0.212	
10/16/2013	1535	0917-170	NO13_10_16_1535_81_271	1	-6.666	2.580	0.160	0.131	-0.178	0.111	0.146	1.446	-0.148	0.219	-0.0000	0.0000	-0.0000	0.0000	0.791	0.67	0.04	0.00	0.67	0.04	
10/16/2013	1535	0917-170	NO13_10_16_1535_83_371	1	-5.766	2.612	-0.082	0.135	-0.317	0.131	0.838	1.370	0.004	0.217	0.0000	0.0000	0.0000	0.0000	-0.46	0.739	0.047	0.00	0.739	0.047	
10/16/2013	1535	0917-170	NO13_10_16_1535_83_561	1	-1.36	2.622	-0.061	0.149	-0.228	0.139	1.325	1.362	-0.074	0.247	-0.0000	0.0000	-0.0000	0.0000	0.048	0.83	0.078	0.00	0.83	0.078	
10/16/2013	1535	0917-170	NO13_10_16_1535_83_641	1	1.478	2.622	-0.023	0.148	-0.023	0.139	1.678	1.401	-0.027	0.216	-0.0000	0.0000	-0.0000	0.0000	0.113	0.83	0.087	0.00	0.83	0.087	
10/16/2013	1535	0917-170	NO13_10_16_1535_84_061	1	-4.14	1.773	0.113	0.130	-0.333	0.132	1.330	1.358	-0.058	0.148	-0.0100	0.0000	-0.0100	0.0000	-0.446	0.84	0.014	0.00	0.84	0.014	
10/16/2013	1535	0917-170	NO13_10_16_1535_84_061	1	-1.670	2.782	0.139	0.134	-0.200	0.131	1.219	1.441	-0.170	0.149	-0.0100	0.0000	-0.0100	0.0000	0.294	0.84	0.031	0.00	0.84	0.031	
10/16/2013	1535	0917-170	NO13_10_16_1535_84_241	1	-1.690	2.788	0.151	0.137	-0.289	0.130	0.866	1.366	-0.172	0.160	-0.0000	0.0000	-0.0000	0.0000	0.113	0.83	0.087	0.00	0.83	0.087	
10/16/2013	1535	0917-170	NO13_10_16_1535_84_241	1	-0.97	1.715	-0.408	0.149	-0.089	0.124	0.812	1.471	-0.081	0.209	-0.0000	0.0000	-0.0000	0.0000	-0.19	0.83	0.133	0.00	0.83	0.133	
10/16/2013	1535	0917-170	NO13_10_16_1535_84_441	1	-3.901	2.704	-0.07	0.153	-0.154	0.117	0.195	1.408	0.043	0.150	-0.0000	0.0000	-0.0000	0.0000	0.14	0.81	0.039	0.00	0.81	0.039	
10/16/2013	1535	0917-170	NO13_10_16_1535_86_611	1	4.750	2.659	0.0530	0.132	0.202	0.132	0.879	1.486	0.073	0.143	-0.0000	0.0000	-0.0000	0.0000	0.897	0.82	0.047	0.00	0.82	0.047	
10/16/2013	1535	0917-170	NO13_10_16_1535_86_611	1	-5.24	2.880	0.155	0.140	-0.001	0.128	0.518	1.586	0.011	0.140	-0.0000	0.0000	-0.0000	0.0000	-0.366	0.82	0.039	0.00	0.82	0.039	
10/16/2013	1535	0917-170	NO13_10_16_1535_86_811	1	-0.97	2.715	-0.408	0.149	-0.089	0.124	0.812	1.471	-0.081	0.209	-0.0000	0.0000	-0.0000	0.0000	-0.19	0.83	0.133	0.00	0.83	0.133	
10/16/2013	1535	0917-170	NO13_10_16_1535_88_121	1	-4.657	2.698	0.0620	0.146	-0.191	0.133	0.19	1.514	0.14	0.143	-0.0010	0.0000	-0.0010	0.0000	-1.01	0.78	0.131	0.00	0.78	0.131	
10/16/2013	1535	0917-170	NO13_10_16_1535_88_121	1	-2.080	3.008	-0.3	0.147	-0.113	0.120	0.750	1.618	-0.18	0.139	-0.0010	0.0000	-0.0010	0.0000	0.880	0.77	0.154	0.00	0.77	0.154	
10/16/2013	1535	0917-170	NO13_10_16_1535_88_151	1	-0.968	2.568	0.160	0.139	0.186	0.130	0.615	1.392	0.017	0.130	-0.0000	0.0000	-0.0000	0.0000	0.093	0.81	0.112	0.00	0.81	0.112	
10/16/2013	1535	0917-170	NO13_10_16_1535_88_311	1	-1.77	2.586	0.1150	0.139	0.018	0.130	0.714	1.538	0.010	0.217	0.0000	0.0000	0.0000	0.0000	0.111	0.76	0.188	0.00	0.76	0.188	
10/16/2013	1535	0917-170	NO13_10_16_1535_88_311	1	0.48	2.621	0.006	0.140	-0.108	0.128	0.643	1.607	-0.22	0.211	0.0000	0.0000	0.0000	0.0000	0.914	0.78	0.221	0.00	0.78	0.221	
10/16/2013	1535	0917-170	NO13_10_16_1535_88_501	1	-2.240	2.422	0.003	0.136	-0.260	0.123	0.868	1.621													

Location Date # Start/Stop Instrument

Label 1-Analyte	Label 2-Analyte	Label 3-Analyte	Label 4-Analyte	Label 5-Analyte	Label 6-Analyte	Label 7-Analyte	Label 8-Analyte												
Date	Method	File Name	OF Azelen (ppm)	SEC (ppm)	Formaldehyde (ppm)	SEC (ppm)	Methanol (ppm)	SEC (ppm)	Phenol (ppm)	SEC (ppm)	Propionaldehyde (ppm)	SEC (ppm)	Sulfur Trisulfide (ppm)	SEC (ppm)	Acetaldehyde (ppm)	SEC (ppm)	Pinene (ppm)		
10/17/2013 12:14	0917-173	10_14_1214_01	-0.1	1.4	0.056	0.030	0.250	0.050	0.230	0.080	0.050	0.130	0.049	0.047	1.58	0.441	2.077		
10/17/2013 12:14	0917-173	10_14_1214_02	-0.1	1.5	0.112	0.084	0.28	0.11	0.1550	0.080	0.0450	0.138	0.049	0.047	1.58	0.441	2.077		
10/17/2013 12:14	0917-173	10_14_1214_03	-0.1	1.5	0.124	0.063	-0.41	1.94	0.050	0.1370	-0.277	0.188	0.049	0.047	-0.28	0.449	-2.077		
10/17/2013 12:15	0917-173	10_14_1215_01	-0.3	1.4	0.187	0.067	-0.38	1.81	-0.001	0.1120	-0.148	0.233	0.065	0.063	-0.213	0.447	-2.128		
10/17/2013 12:15	0917-173	10_14_1215_02	-0.1	1.5	0.156	0.078	0.46	0.5	0.117	0.1090	0.0390	0.135	0.057	0.063	0.102	0.451	-2.128		
10/17/2013 12:15	0917-173	10_14_1215_03	-0.3	1.5	0.1500	0.077	0.46	1.66	0.1030	0.1080	0.215	0.140	0.063	0.064	0.401	0.445	-2.128		
10/17/2013 12:16	0917-173	10_14_1216_01	-0.5	1.5	-0.042	0.263	-0.51	1.86	-0.2000	0.1020	-0.230	0.135	0.057	0.066	0.437	0.455	-2.149		
10/17/2013 12:16	0917-173	10_14_1216_02	-0.1	1.6	0.050	0.062	0.48	1.56	0.050	0.1170	0.0600	0.119	0.055	0.062	0.046	0.457	-2.137		
10/17/2013 12:16	0917-173	10_14_1216_03	-0.9	1.5	-0.034	0.082	-0.57	1.17	-0.212	0.1100	-0.082	0.133	0.055	0.065	0.031	0.437	-2.137		
10/17/2013 12:17	0917-173	10_14_1217_01	-0.1	1.5	0.2100	0.077	-0.48	1.87	0.321	0.0990	0.183	0.119	0.057	0.066	0.583	0.426	-2.1		
10/17/2013 12:17	0917-173	10_14_1217_02	-1.6	1.5	0.075	0.079	-0.38	1.67	0.189	0.1090	-0.151	0.130	0.062	0.065	1.50	0.439	-2.128		
10/17/2013 12:17	0917-173	10_14_1217_03	-0.9	1.5	0.108	0.086	0.52	1.66	0.171	0.1110	-0.118	0.119	0.062	0.065	0.944	0.480	-2.128		
10/17/2013 12:18	0917-173	10_14_1218_01	-0.1	1.6	0.0100	0.077	-0.55	1.87	-0.4600	0.1100	-0.0070	0.133	0.064	0.065	0.77	0.439	-2.124		
10/17/2013 12:18	0917-173	10_14_1218_02	-1.1	1.5	0.188	0.079	-0.50	1.67	0.0000	0.1050	-0.175	0.111	0.052	0.065	0.908	0.431	-2.122		
10/17/2013 12:18	0917-173	10_14_1218_03	0.6	1.6	0.3000	0.080	-0.77	1.68	0.093	0.1020	0.196	0.136	0.062	0.065	0.437	0.455	-2.149		
10/17/2013 12:19	0917-173	10_14_1219_01	4.5	1.4	-0.0090	0.078	-0.31	1.66	0.163	0.1220	-0.134	0.119	0.050	0.066	0.91	0.428	-2.13		
10/17/2013 12:19	0917-173	10_14_1219_02	1.9	1.5	0.134	0.084	-0.50	1.66	0.0200	0.1140	-0.264	0.137	0.056	0.067	0.1480	0.438	-2.16		
10/17/2013 12:19	0917-173	10_14_1219_03	0.6	1.5	0.080	0.079	-0.37	1.67	0.020	0.1190	0.144	0.121	0.058	0.067	0.0000	0.466	-2.126		
10/17/2013 12:20	0917-173	10_14_1220_01	1.0	1.5	0.105	0.085	-0.29	1.69	0.010	0.1100	0.148	0.128	0.065	0.066	0.944	0.480	-2.181		
10/17/2013 12:20	0917-173	10_14_1220_02	-1.0	1.5	0.081	0.083	-0.38	1.67	0.0240	0.1120	0.003	0.138	0.060	0.065	0.74	0.461	-2.146		
10/17/2013 12:20	0917-173	10_14_1220_03	-1.3	1.5	0.033	0.079	-0.48	1.67	-0.335	0.1090	-0.363	0.129	0.061	0.066	1.20	0.414	-2.189		
10/17/2013 12:21	0917-173	10_14_1221_01	-1.9	1.8	0.138	0.080	-0.64	1.67	0.111	0.1210	0.133	0.137	0.054	0.071	-0.745	0.475	-2.168		
10/17/2013 12:21	0917-173	10_14_1221_02	-1.1	1.5	0.085	0.082	-0.48	1.67	0.0010	0.0990	-0.242	0.134	0.056	0.064	1.007	0.436	-2.153		
10/17/2013 12:21	0917-173	10_14_1221_03	0.4	1.6	0.3650	0.084	-0.44	1.67	0.139	0.0960	-0.217	0.139	0.051	0.064	-0.15	0.416	-2.166		
10/17/2013 12:22	0917-173	10_14_1222_01	-0.6	1.5	-0.042	0.084	-0.35	1.67	0.113	0.1080	0.176	0.136	0.060	0.065	0.944	0.480	-2.181		
10/17/2013 12:22	0917-173	10_14_1222_02	-1.1	1.6	-0.033	0.084	-0.40	1.66	-0.0240	0.1080	-0.276	0.140	0.057	0.069	-0.209	0.469	-2.188		
10/17/2013 12:22	0917-173	10_14_1222_03	0.5	1.5	0.097	0.079	-0.58	1.66	0.0240	0.0980	-0.044	0.131	0.049	0.066	0.602	0.445	-2.17		
10/17/2013 12:23	0917-173	10_14_1223_01	0.8	1.4	0.104	0.082	-0.58	1.66	0.0240	0.0980	0.044	0.131	0.049	0.066	0.602	0.445	-2.17		
10/17/2013 12:23	0917-173	10_14_1223_02	-1.9	1.8	0.200	0.084	-0.58	1.66	0.0240	0.0980	0.044	0.131	0.049	0.066	0.602	0.445	-2.17		
10/17/2013 12:24	0917-173	10_14_1224_01	1.0	1.00	-0.180	0.183	0.98	0.82	-0.08	0.1080	1.383	0.215	3.42	0.220	0.853	0.139	0.704		
10/17/2013 12:45	0917-173	10_14_1245_01	0.99	0.998	-0.138	0.170	1.117	0.828	-0.04	0.1060	0.233	0.147	0.233	0.34	0.220	0.853	0.139	0.704	
10/17/2013 12:46	0917-173	10_14_1246_01	0.86	0.928	-0.029	0.177	1.133	0.828	-0.13	0.1110	0.131	0.219	0.45	0.233	0.34	0.220	0.853	0.139	0.704
10/17/2013 12:47	0917-173	10_14_1247_01	0.86	0.928	-0.056	0.174	1.148	0.951	-0.09	0.1110	0.146	0.229	0.48	0.233	0.34	0.220	0.853	0.139	0.704
10/17/2013 12:48	0917-173	10_14_1248_01	0.86	0.967	-0.240	0.172	1.154	0.952	0.1140	0.1100	1.46	0.229	0.48	0.233	0.34	0.220	0.853	0.139	0.704
10/17/2013 12:49	0917-173	10_14_1249_01	0.86	0.928	-0.029	0.177	1.148	0.951	-0.09	0.1110	0.146	0.229	0.48	0.233	0.34	0.220	0.853	0.139	0.704
10/17/2013 12:50	0917-173	10_14_1250_01	0.86	1.028	-0.180	0.184	1.17	0.963	0.009	0.1130	1.32	0.239	0.48	0.233	0.34	0.220	0.853	0.139	0.704
10/17/2013 12:51	0917-173	10_14_1251_01	1.34	0.964	-0.407	0.176	1.17	0.975	0.009	0.1090	1.42	0.239	0.48	0.233	0.34	0.220	0.853	0.139	0.704
10/17/2013 12:52	0917-173	10_14_1252_01	0.74	1.031	-0.133	0.175	1.18	0.977	-0.006	0.1230	1.50	0.229	0.48	0.233	0.34	0.220	0.853	0.139	0.704
10/17/2013 12:53	0917-173	10_14_1253_01	0.095	1.029	-0.264	0.183	1.18	0.977	-0.043	0.1170	1.59	0.229	0.48	0.233	0.34	0.220	0.853	0.139	0.704
10/17/2013 12:54	0917-173	10_14_1254_01	1.38	1.031	-0.269	0.185	1.18	0.977	-0.068	0.1190	1.66	0.233	0.48	0.233	0.34	0.220	0.853	0.139	0.704
10/17/2013 12:56	0917-173	10_14_1256_01	0.45	1.036	-0.102	0.180	1.18	0.980	-0.054	0.1170	1.47	0.235	0.48	0.233	0.34	0.220	0.853	0.139	0.704
10/17/2013 12:57	0917-173	10_14_1257_01	1.05	0.850	-0.500	0.182	1.18	0.980	-0.026	0.2025	1.66	0.235	0.48	0.233	0.34	0.220	0.853	0.139	0.704
10/17/2013 12:58	0917-173	10_14_1258_01	0.414	1.580	-0.319	0.183	1.18	0.975	0.177	0.211	1.61	0.235	0.48	0.233	0.34	0.220	0.853	0.139	0.704
10/17/2013 12:58	0917-173	10_14_1258_02	1.340	1.511	-0.107	0.183	1.18	0.985	0.213	0.215	1.61	0.235	0.48	0.233	0.34	0.220	0.853	0.139	0.704
10/17/2013 12:58	0917-173	10_14_1258_03	2.45	1.0	0.86	0.165	1.18	0.977	0.010	0.216	1.61	0.235	0.48	0.233	0.34	0.220	0.853	0.139	0.704
10/17/2013 12:59	0917-173	10_14_1259_01	2.45	1.0	0.86	0.165	1.18	0.977	0.010	0.216	1.61	0.235	0.48	0.233	0.34	0.220	0.853	0.139	0.704
10/17/2013 13:00	0917-173	10_14_1300_01	1.340	1.511	-0.107	0.183	1.18	0.985	0.213	0.215	1.61	0.235	0.48	0.233	0.34	0.220	0.853	0.139	0.704
10/17/2013 13:01	0917-173	10_14_1301_01	2.45	1.0	0.86	0.165	1.18	0.977	0.010	0.216	1.61	0.235	0.48	0.233	0.34	0.220	0.853	0.139	0.704
10/17/2013 13:02	0917-173	10_14_1302_01	2.45	1.0	0.86	0.165	1.18	0.977	0.010	0.216	1.61	0.235	0.48	0.233	0.34	0.220	0.853	0.139	0.704
10/17/2013 13:03	0917-173	10_14_1303_01	1.340	1.511	-0.107	0.183	1.18	0.985	0.213	0.215	1.61	0.235	0.48	0.233	0.34	0.220	0.853	0.139	0.704
10/17/2013 13:04	0917-173	10_14_1304_01	2.45	1.0	0.86	0.165	1.18	0.977	0.010	0.216	1.61	0.235	0.48	0.233	0.34	0.220	0.853	0.139	0.704
10/17/2013 13:05	0917-173	10_14_1305_01	1.340	1.511	-0.107	0.183	1.18	0.985	0.213	0.215	1.61	0.235	0.48	0.233	0.34				

Table with multiple columns: Location, Date, Method, Run, Start, A, AP, Label 1-Analyte, Label 2-Analyte, Label 3-Analyte/Tipite, Label 4-Analyte, Label 5-Analyte, Label 6-Analyte, Label 7-Analyte, Label 8-Analyte. Rows include data points with values for SEC (ppm), Formaldehyde (ppm), Methanol (ppm), and various other analyte levels. The table is organized into columns for different analytes and their corresponding measurements.

Location	Disc	Start/Stop	Instrument	Label 3-Analyte	Label 2-Analyte	Label 3-Analyte	Label 4-Analyte	Label 5-Analyte	Label 6-Analyte	Label 7-Analyte	Label 8-Analyte	Unit	Min	Max	DP
10/17/2013 10:47	1017-173	10_13_10_14	1017-27_201	-10.242	3.165	0.249	0.153	0.046	0.103	0.009	0.064	0.000	0.11	0.93	1.733
10/17/2013 10:47	1017-173	10_13_10_14	1017-27_201	-11.857	2.814	0.149	0.159	0.032	0.207	0.110	0.062	0.000	0.00	0.00	1.751
10/17/2013 10:47	1017-173	10_13_10_14	1017-27_201	-9.776	3.019	0.246	0.164	0.101	0.174	0.074	0.060	0.000	0.00	0.00	1.889
10/17/2013 10:47	1017-173	10_13_10_14	1017-27_201	-12.455	3.995	0.553	0.160	0.137	0.151	0.110	0.071	0.000	-0.02	0.00	1.856
10/17/2013 10:47	1017-173	10_13_10_14	1017-27_201	-3.997	3.016	0.170	0.153	0.283	0.150	0.180	0.081	0.000	-0.14	0.18	1.839
10/17/2013 10:47	1017-173	10_13_10_14	1017-27_201	-2.410	3.607	0.217	0.167	0.167	0.156	0.103	0.084	0.000	-0.06	0.14	1.982
10/17/2013 10:48	1017-173	10_13_10_14	1017-27_201	-1.140	3.028	0.241	0.167	0.081	0.149	0.058	0.090	0.000	-0.03	0.10	1.937
10/17/2013 10:48	1017-173	10_13_10_14	1017-27_201	-4.792	3.448	0.258	0.156	-0.100	0.144	0.005	0.127	0.000	-0.05	0.14	1.934
10/17/2013 10:48	1017-173	10_13_10_14	1017-27_201	-16.130	3.660	-0.081	0.188	0.386	0.156	0.084	0.102	0.000	-0.04	0.10	1.937
10/17/2013 10:48	1017-173	10_13_10_14	1017-27_201	8.24	3.588	0.0410	0.184	0.114	0.141	0.070	0.108	0.000	0.13	0.10	1.934
10/17/2013 10:48	1017-173	10_13_10_14	1017-27_201	-4.282	3.521	0.189	0.164	0.170	0.154	0.017	0.109	0.000	0.11	0.10	1.934
10/17/2013 10:48	1017-173	10_13_10_14	1017-27_201	-4.406	3.588	0.209	0.184	-0.260	0.154	0.014	0.114	0.000	-0.01	0.13	1.934
10/17/2013 10:48	1017-173	10_13_10_14	1017-27_201	-7.787	3.734	0.050	0.195	-0.000	0.149	0.099	0.114	0.000	0.10	0.10	1.934
10/17/2013 10:48	1017-173	10_13_10_14	1017-27_201	-10.029	3.388	0.084	0.183	-0.159	0.146	0.123	0.141	0.000	0.14	0.10	1.934
10/17/2013 10:48	1017-173	10_13_10_14	1017-27_201	-10.927	3.790	-0.155	0.191	-0.170	0.155	0.159	0.119	0.000	-0.49	0.10	1.934
10/17/2013 10:48	1017-173	10_13_10_14	1017-27_201	-16.048	3.535	-0.154	0.197	-0.020	0.146	0.171	0.131	0.000	-0.43	0.10	1.934
10/17/2013 10:48	1017-173	10_13_10_14	1017-27_201	-5.225	3.459	-0.184	0.182	0.288	0.155	0.074	0.117	0.000	-0.03	0.10	1.934
10/17/2013 10:48	1017-173	10_13_10_14	1017-27_201	-11.99	3.551	-0.158	0.191	-0.140	0.158	0.131	0.131	0.000	-0.07	0.10	1.934
10/17/2013 10:48	1017-173	10_13_10_14	1017-27_201	-10.704	3.293	-0.070	0.198	-0.243	0.148	0.130	0.132	0.000	-0.05	0.10	1.934
10/17/2013 10:48	1017-173	10_13_10_14	1017-27_201	-10.941	3.930	0.243	0.293	-0.155	0.149	0.127	0.138	0.000	-0.02	0.10	1.934
10/17/2013 10:48	1017-173	10_13_10_14	1017-27_201	-5.57	3.272	0.175	0.179	-0.166	0.155	0.166	0.134	0.000	-0.37	0.10	1.934
10/17/2013 10:48	1017-173	10_13_10_14	1017-27_201	1.061	3.301	0.172	0.192	0.143	0.151	0.211	0.145	0.000	-0.46	0.10	1.934
10/17/2013 10:48	1017-173	10_13_10_14	1017-27_201	9.893	3.934	-0.037	0.175	-0.169	0.152	0.228	0.121	0.000	0.38	0.10	1.934
10/17/2013 10:48	1017-173	10_13_10_14	1017-27_201	9.818	3.958	0.093	0.174	-0.246	0.150	0.043	0.156	0.000	0.57	0.10	1.934
10/17/2013 10:48	1017-173	10_13_10_14	1017-27_201	-5.872	3.407	0.0040	0.178	-0.060	0.155	0.195	0.169	0.000	-0.09	0.10	1.934
10/17/2013 10:48	1017-173	10_13_10_14	1017-27_201	-6.810	3.349	-0.430	0.172	0.080	0.151	0.337	0.173	0.000	-0.45	0.10	1.934
10/17/2013 10:48	1017-173	10_13_10_14	1017-27_201	-0.971	3.133	0.077	0.175	0.050	0.144	0.309	0.174	0.000	0.02	0.10	1.934
10/17/2013 10:48	1017-173	10_13_10_14	1017-27_201	-2.87	3.103	-0.004	0.167	-0.140	0.148	0.174	0.260	0.000	-0.26	0.10	1.934
10/17/2013 10:48	1017-173	10_13_10_14	1017-27_201	-6.091	3.270	0.021	0.176	0.030	0.155	0.299	0.179	0.000	0.44	0.10	1.934
10/17/2013 10:48	1017-173	10_13_10_14	1017-27_201	-4.079	3.140	0.140	0.183	0.113	0.152	0.178	0.261	0.000	-0.22	0.10	1.934
10/17/2013 10:48	1017-173	10_13_10_14	1017-27_201	1.80	3.185	0.480	0.187	0.152	0.148	0.253	0.212	0.000	-0.14	0.10	1.934
10/17/2013 10:48	1017-173	10_13_10_14	1017-27_201	0.132	3.203	0.149	0.169	0.127	0.146	0.237	0.241	0.000	-0.04	0.10	1.934
10/17/2013 10:48	1017-173	10_13_10_14	1017-27_201	-0.008	3.113	0.183	0.194	-0.329	0.151	0.450	0.270	0.000	-0.18	0.10	1.934
10/17/2013 10:48	1017-173	10_13_10_14	1017-27_201	-3.33	3.494	-0.100	0.180	0.140	0.158	0.022	0.200	0.000	0.00	0.10	1.934
10/17/2013 10:48	1017-173	10_13_10_14	1017-27_201	-1.137	3.222	-0.030	0.180	0.150	0.159	0.088	0.205	0.000	-0.08	0.10	1.934
10/17/2013 10:48	1017-173	10_13_10_14	1017-27_201	-0.117	3.274	0.210	0.174	0.100	0.148	0.203	0.179	0.000	-0.02	0.10	1.934
10/17/2013 10:48	1017-173	10_13_10_14	1017-27_201	-7.46	3.183	0.010	0.182	0.010	0.138	0.294	0.173	0.000	-0.44	0.10	1.934
10/17/2013 10:48	1017-173	10_13_10_14	1017-27_201	1.816	3.240	0.178	0.172	0.249	0.147	0.160	0.260	0.000	-0.08	0.10	1.934
10/17/2013 10:48	1017-173	10_13_10_14	1017-27_201	-8.823	3.288	0.062	0.183	-0.219	0.152	0.336	0.279	0.000	-0.17	0.10	1.934
10/17/2013 10:48	1017-173	10_13_10_14	1017-27_201	-7.230	3.107	0.232	0.172	-0.180	0.152	0.40	0.251	0.000	-0.35	0.10	1.934
10/17/2013 10:48	1017-173	10_13_10_14	1017-27_201	8.833	3.040	-0.000	0.184	-0.114	0.137	0.083	0.245	0.000	-0.11	0.10	1.934
10/17/2013 10:48	1017-173	10_13_10_14	1017-27_201	8.184	3.213	0.143	0.170	-0.060	0.147	0.166	0.244	0.000	-0.07	0.10	1.934
10/17/2013 10:48	1017-173	10_13_10_14	1017-27_201	-6.117	3.080	0.010	0.172	0.070	0.153	0.051	0.264	0.000	0.13	0.10	1.934
10/17/2013 10:48	1017-173	10_13_10_14	1017-27_201	1.890	3.955	0.010	0.166	-0.076	0.141	0.050	0.279	0.000	0.23	0.10	1.934
10/17/2013 10:48	1017-173	10_13_10_14	1017-27_201	-2.909	3.199	0.118	0.176	0.096	0.155	0.096	0.217	0.000	0.40	0.10	1.934
10/17/2013 10:48	1017-173	10_13_10_14	1017-27_201	-11.119	3.275	0.412	0.172	0.136	0.151	0.267	0.183	0.000	-0.35	0.10	1.934
10/17/2013 10:48	1017-173	10_13_10_14	1017-27_201	7.183	3.181	-0.070	0.177	-0.240	0.147	0.099	0.198	0.000	0.04	0.10	1.934
10/17/2013 10:48	1017-173	10_13_10_14	1017-27_201	7.171	3.040	-0.100	0.179	-0.210	0.145	0.237	0.205	0.000	-0.04	0.10	1.934
10/17/2013 10:48	1017-173	10_13_10_14	1017-27_201	2.985	3.079	0.223	0.175	-0.121	0.159	0.277	0.143	0.000	0.47	0.10	1.934
10/17/2013 10:48	1017-173	10_13_10_14	1017-27_201	-8.920	3.261	0.185	0.172	-0.080	0.148	0.151	0.293	0.000	-0.25	0.10	1.934
10/17/2013 10:48	1017-173	10_13_10_14	1017-27_201	2.584	2.930	0.120	0.170	-0.130	0.149	0.187	0.260	0.000	-0.05	0.10	1.934
10/17/2013 10:48	1017-173	10_13_10_14	1017-27_201	2.945	2.995	0.054	0.173	0.020	0.151	0.331	0.151	0.000	0.57	0.10	1.934
10/17/2013 10:48	1017-173	10_13_10_14	1017-27_201	6.827	2.893	-0.453	0.193	-0.280	0.150	0.244	0.218	0.000	-0.12	0.10	1.934
10/17/2013 10:48	1017-173	10_13_10_14	1017-27_201	-6.070	3.050	0.000	0.193	0.090	0.160	0.303	0.160	0.000	-0.06	0.10	1.934
10/17/2013 10:48	1017-173	10_13_10_14	1017-27_201	-1.011	3.028	0.111	0.108	-0.090	0.130	0.738	1.354	0.000	-0.07	0.10	1.934
10/17/2013 10:48	1017-173	10_13_10_14	1017-27_201	-2.369	3.794	0.070	0.104	-0.160	0.130	0.835	1.024	0.000	-0.24	0.10	1.934
10/17/2013 10:48	1017-173	10_13_10_14	1017-27_201	-3.370	2.965	-0.081	0.108	-0.178	0.129	0.505	0.505	0.000	-0.01	0.10	1.934
10/17/2013 10:48	1017-173	10_13_10_14	1017-27_201	3.904	3.004	0.110	0.107	0.070	0.130	0.740	1.502	0.000	-0.28	0.10	1.934
10/17/2013 10:48	1017-173	10_13_10_14	1017-27_201	2.240	2.869	0.040	0.105	-0.040	0.120	0.809	1.901	0.000	-0.14	0.10	1.934
10/17/2013 10:48	1017-173	10_13_10_14	1017-27_201	-2.629	2.896	0.070	0.100	-0.090	0.120	0.802	1.802	0.000	-0.12	0.10	1.934
10/17/2013 10:48	1017-173	10_13_10_14	1017-27_201	0.9	3.1	0.081	0.081	0.081	0.133	-0.110	0.020	0.000	0.05	0.10	1.934
10/17/2013 10:48	1017-173	10_13_10_14	1017-27_201	0.9	3.1	0.008	0.084	0.008	0.160	0.040	0.020	0.000	0.151	0.141	1.934
10/17/2013 10:48	1017-173	10_13_10_14	1017-27_201	0.1	3.1	0.000	0.088	0.000	0.143	0.043	0.000	0.000	0.05	0.10	1.934
10/17/2013 10:48	1017-173	10_13_10_14	1017-27_201	3.8	3.1	-0.088	0.086	0.38	0.165	0.010	0.020	0.000	-0.138	0.137	1.934
10/17/2013 10:48	1017-173	10_13_10_14	1017-27_201	2.1	3.1	0.177	0.083	0.40	0.166	-0.100	0.020	0.000	0.09	0.14	

Location Disc # Start/Stop Instrument

Date	Method	Filename	Of	Acridion [ppm]	SEC [ppm]	Formaldehyde [ppm]	SEC [ppm]	Methanol [ppm]	SEC [ppm]	Pinene [ppm]	SEC [ppm]	Propylacetate [ppm]	SEC [ppm]	Water-unsaturated [ppm]	SEC [ppm]	Acetophenone [ppm]	SEC [ppm]	Ammonia [ppm]	SEC [ppm]	Ammonia [ppm]
10/12/2013 10:16	0817-173	10_15_1016_22_594	1	0.373	0.948	0.000	0.000	0.118	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10/15/2013 10:17	0817-173	10_15_1017_22_324	1	0.710	0.901	-0.010	0.065	0.137	0.040	0.030	0.030	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10/15/2013 10:18	0817-173	10_15_1018_22_441	1	0.999	1.092	0.040	0.068	0.246	0.056	0.239	0.173	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10/15/2013 10:19	0817-173	10_15_1019_22_504	1	1.135	1.235	0.000	0.000	0.325	0.030	0.402	0.271	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10/19/2013 10:20	0817-173	10_15_1020_24_354	1	-1.670	1.063	0.029	0.068	3.111	0.010	0.403	0.711	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10/15/2013 10:21	0817-173	10_15_1021_24_304	1	1.420	1.139	0.070	0.067	0.316	0.090	0.369	1.728	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10/15/2013 10:22	0817-173	10_15_1022_24_354	1	-1.027	1.009	-0.008	0.070	3.204	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10/15/2013 10:23	0817-173	10_15_1023_24_354	1	1.475	1.077	0.051	0.060	3.132	0.000	0.430	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10/15/2013 10:24	0817-173	10_15_1024_27_064	1	0.840	1.166	0.191	0.096	3.101	0.000	0.386	1.727	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10/15/2013 10:25	0817-173	10_15_1025_27_064	1	0.021	1.154	0.233	0.071	2.971	0.000	0.330	1.727	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10/15/2013 10:26	0817-173	10_15_1026_29_214	1	0.184	2.221	-0.047	0.064	2.791	0.000	0.458	1.728	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10/15/2013 10:27	0817-173	10_15_1027_30_044	1	0.526	1.079	0.087	0.064	2.471	0.000	0.419	1.705	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10/15/2013 10:28	0817-173	10_15_1028_30_044	1	-0.000	1.134	0.130	0.098	2.481	0.000	0.470	1.710	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10/15/2013 10:29	0817-173	10_15_1029_31_173	1	-0.055	2.175	0.140	0.064	2.848	0.000	0.418	1.699	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10/15/2013 10:30	0817-173	10_15_1030_31_173	1	-1.137	1.030	0.123	0.073	2.851	0.000	0.469	1.713	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10/15/2013 10:31	0817-173	10_15_1031_31_173	1	-1.129	1.054	0.123	0.068	3.211	0.000	0.432	1.715	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10/15/2013 10:32	0817-173	10_15_1032_31_755	1	0.082	1.067	0.080	0.068	3.043	0.000	0.287	1.714	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10/15/2013 10:33	0817-173	10_15_1033_31_755	1	0.186	1.007	0.043	0.073	2.471	0.000	0.469	1.730	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10/15/2013 10:34	0817-173	10_15_1034_31_755	1	-1.021	1.149	-0.070	0.070	3.281	0.000	0.415	1.748	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10/15/2013 10:35	0817-173	10_15_1035_31_755	1	0.510	1.088	0.066	0.068	3.401	0.000	0.279	1.738	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10/15/2013 10:36	0817-173	10_15_1036_31_755	1	0.047	1.116	0.046	0.068	3.243	0.000	0.193	1.743	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10/15/2013 10:37	0817-173	10_15_1037_31_755	1	2.390	1.189	0.000	0.068	3.119	0.000	0.549	1.735	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10/15/2013 10:38	0817-173	10_15_1038_31_755	1	0.448	1.143	0.031	0.067	3.213	0.000	0.408	1.739	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10/15/2013 10:39	0817-173	10_15_1039_31_755	1	-0.800	1.103	0.042	0.068	3.321	0.000	0.524	1.739	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10/15/2013 10:40	0817-173	10_15_1040_31_755	1	0.485	1.205	0.021	0.068	3.261	0.000	0.411	1.741	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10/15/2013 10:41	0817-173	10_15_1041_40_574	1	0.086	1.249	-0.051	0.070	2.811	0.000	0.471	1.739	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10/15/2013 10:42	0817-173	10_15_1042_41_328	1	0.758	1.197	0.024	0.068	3.231	0.000	0.421	1.732	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10/15/2013 10:43	0817-173	10_15_1043_41_328	1	-0.420	1.081	0.000	0.070	2.781	0.000	0.569	1.733	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10/15/2013 10:44	0817-173	10_15_1044_41_328	1	0.121	1.088	0.000	0.068	2.811	0.000	0.565	1.733	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10/15/2013 10:45	0817-173	10_15_1045_41_328	1	-1.108	2.093	0.018	0.068	2.581	0.000	0.519	1.721	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10/15/2013 10:46	0817-173	10_15_1046_41_328	1	-0.137	1.043	0.002	0.068	2.841	0.000	0.579	1.800	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10/15/2013 10:47	0817-173	10_15_1047_41_328	1	0.441	1.013	0.000	0.068	2.841	0.000	0.579	1.800	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10/15/2013 10:48	0817-173	10_15_1048_41_328	1	0.727	1.117	-0.012	0.068	2.301	0.000	0.610	1.799	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10/15/2013 10:49	0817-173	10_15_1049_41_328	1	-0.000	1.089	0.050	0.068	2.391	0.000	0.700	1.801	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10/15/2013 10:50	0817-173	10_15_1050_41_328	1	-0.000	1.089	0.050	0.068	2.391	0.000	0.700	1.801	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10/15/2013 10:51	0817-173	10_15_1051_41_328	1	0.378	1.081	0.088	0.068	2.391	0.000	0.700	1.801	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10/15/2013 10:52	0817-173	10_15_1052_41_328	1	0.758	1.117	0.143	0.067	2.321	0.000	0.700	1.801	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10/15/2013 10:53	0817-173	10_15_1053_41_328	1	0.758	1.117	0.143	0.067	2.321	0.000	0.700	1.801	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10/15/2013 10:54	0817-173	10_15_1054_41_328	1	0.081	1.237	0.020	0.067	2.421	0.000	0.631	1.704	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10/15/2013 10:55	0817-173	10_15_1055_41_328	1	1.072	1.234	0.072	0.067	2.421	0.000	0.631	1.704	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10/15/2013 10:56	0817-173	10_15_1056_41_328	1	0.889	1.190	0.040	0.067	2.421	0.000	0.631	1.704	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10/15/2013 10:57	0817-173	10_15_1057_41_328	1	-1.043	1.179	0.080	0.068	2.511	0.000	0.508	1.734	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10/15/2013 10:58	0817-173	10_15_1058_41_328	1	0.855	1.094	0.184	0.067	2.441	0.000	0.620	1.722	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10/15/2013 10:59	0817-173	10_15_1059_41_328	1	0.390	1.130	0.080	0.068	2.391	0.000	0.569	1.723	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10/15/2013 11:00	0817-173	10_15_1100_51_387	1	0.840	1.090	-0.010	0.040	2.911	0.000	0.592	1.723	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10/15/2013 11:01	0817-173	10_15_1101_51_387	1	0.930	1.129	0.000	0.068	2.631	0.000	0.610	1.724	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10/15/2013 11:02	0817-173	10_15_1102_51_387	1	0.830	1.090	-0.010	0.040													

Table with columns: Location, Disc, #, Start/Stop, Instrument, Label, Date, Method, Parameter, OF, Azimuth (deg), SEC (sec), Formaldehyde (ppm), SEC (ppm), Methanol (ppm), SEC (ppm), Phenol (ppm), SEC (ppm), Propene/ethylene (ppm), SEC (ppm), Sulfur_hydrocarbons (ppm), SEC (ppm), autotxidation (ppm), SEC (ppm), ppm, ppm, ppm. The table contains a large volume of numerical data for various parameters across different dates and methods.

Location	Dir.	#	Start/Stop	Instrument	Date	Method	Filename	ASD	Label 1-Analyte	Label 2-Analyte	Label 3-Analyte/Split	Label 4-Analyte	Label 5-Analyte	Label 6-Analyte	Label 7-Analyzer	Label 8-Analyte	ASD							
									Acrolein (ppm)	SEC (ppm)	Formaldehyde (ppm)	SEC (ppm)	Methanol (ppm)	SEC (ppm)	Phenol (ppm)	SEC (ppm)	Propionaldehyde (ppm)	SEC (ppm)	Sulfur Hexafluoride (ppm)	SEC (ppm)	acetaldehyde (ppm)	SEC (ppm)	pinene (ppb)	
10/15/2013	1548	0917-173	10_15_1548_30_030		3.8060	1.115			0.110	0.04	0.963	0.0760	0.371	1.684			-1.48	0.231		0.0000	0.0030	0.89	0.340	35.839
10/15/2013	1549	0917-173	10_15_1549_39_170		1.009	1.200			0.029	0.01	1.067	0.2786	0.546	1.676			-2.18	0.249		-0.0000	0.0030	-0.51	0.271	36.616
10/15/2013	1549	0917-173	10_15_1549_39_170		3.171	1.122			-0.012	0.081	0.909	0.0780	0.672	1.687			2.575	0.246		-0.0000	0.0030	0.73	0.389	35.071
10/15/2013	1551	0917-173	10_15_1551_00_031		2.254	1.153			-0.019	0.085	0.968	0.0790	0.498	1.631			-1.24	0.245		-0.0000	0.0030	0.606	0.360	60.079
10/15/2013	1551	0917-173	10_15_1551_01_001		3.31	1.174			0.011	0.063	0.960	0.0620	0.485	1.140			-0.339	0.248		-0.0000	0.0030	0.880	0.345	35.651
10/15/2013	1554	0917-173	10_15_1554_02_221		0.771	1.099			0.031	0.063	0.630	0.0570	0.470	1.299			-0.169	0.200		-0.0000	0.0030	0.171	0.311	29.818
10/15/2013	1554	0917-173	10_15_1554_02_221		4.075	1.102			0.041	0.062	-0.0150	0.0600	0.990	1.294			-0.002	0.301		-0.0000	0.0030	0.124	0.334	36.687
10/15/2013	1554	0917-173	10_15_1554_02_221		1.629	1.180			0.042	0.064	0.010	0.0590	0.880	1.299			-0.183	0.267		-0.0000	0.0030	0.726	0.337	36.062
10/15/2013	1557	0917-173	10_15_1557_04_531		2.4460	1.135			0.132	0.063	0.020	0.0590	0.930	1.288			-0.133	0.299		-0.0000	0.0030	-0.18	0.335	35.523
10/15/2013	1558	0917-173	10_15_1558_05_231		1.085	1.117			0.002	0.063	0.040	0.0580	0.640	1.305			-0.057	0.107		-0.0000	0.0030	-0.417	0.353	35.524
10/15/2013	1558	0917-173	10_15_1558_05_231		4.492	1.208			0.080	0.062	-0.020	0.0590	0.820	1.307			-0.115	0.105		-0.0000	0.0030	-0.348	0.360	60.079
10/15/2013	1558	0917-173	10_15_1558_05_231		0.846	1.232			0.008	0.061	0.066	0.0580	0.538	1.320			-0.169	0.106		-0.0000	0.0030	0.880	0.345	35.651
10/15/2013	1601	0917-173	10_15_1601_07_231		1.914	1.128			0.012	0.062	0.096	0.0590	0.580	1.302			-0.017	0.103		-0.0000	0.0030	0.401	0.344	35.574
10/15/2013	1601	0917-173	10_15_1601_07_231		3.508	1.282			0.040	0.058	0.01	0.0590	0.880	1.302			-0.001	0.105		-0.0000	0.0030	0.74	0.338	35.52
10/15/2013	1604	0917-173	10_15_1604_09_002		1.4030	1.117			0.051	0.063	0.040	0.0570	0.580	1.301			-0.095	0.101		-0.0000	0.0030	-0.069	0.345	33.949
10/15/2013	1604	0917-173	10_15_1604_09_002		3.185	1.180			0.028	0.020	0.0000	0.0580	0.456	1.301			-0.028	0.103		-0.0000	0.0030	0.863	0.348	35.849
10/15/2013	1607	0917-173	10_15_1607_13_092		2.583	1.319			0.084	0.062	-0.052	0.0590	0.640	1.499			-0.033	0.104		-0.0000	0.0030	-0.348	0.359	35.847
10/15/2013	1607	0917-173	10_15_1607_13_092		1.920	1.189			0.044	0.062	0.059	0.0580	0.6720	1.307			-0.006	0.104		-0.0000	0.0030	0.057	0.338	41.019
10/15/2013	1608	0917-173	10_15_1608_15_262		1.4700	1.213			0.069	0.064	0.052	0.0570	0.512	1.310			-0.040	0.107		-0.0000	0.0030	-0.151	0.380	40.431
10/15/2013	1610	0917-173	10_15_1610_14_132		4.115	1.013			0.170	0.061	0.020	0.0560	0.710	1.305			-0.010	0.099		-0.0000	0.0030	0.503	0.381	24.41
10/15/2013	1611	0917-173	10_15_1611_15_282		3.679	1.094			0.094	0.063	-0.070	0.0570	0.618	1.304			-0.050	0.100		0.0000	0.0030	-0.446	0.332	4.457
10/15/2013	1611	0917-173	10_15_1611_15_282		2.119	1.186			0.045	0.063	0.060	0.0590	0.2140	1.305			-0.020	0.109		-0.0000	0.0030	0.290	0.366	36.539
10/15/2013	1611	0917-173	10_15_1611_15_282		4.830	1.091			0.066	0.063	-0.080	0.0610	0.593	1.313			-0.131	0.107		-0.0000	0.0030	-0.443	0.364	18.44
10/15/2013	1611	0917-173	10_15_1611_15_282		1.4	1.1			0.141	0.099	-0.144	0.061	0.446	1.303			-0.074	0.104		0.0000	0.0030	0.176	0.345	35.849
10/15/2013	1617	0917-173	10_15_1617_24_254		1.3	1.3			-0.038	0.082	-0.43	0.157	0.077	0.310			-0.028	0.256		0.0000	0.0030	0.199	0.449	-1.839
10/15/2013	1622	0917-173	10_15_1622_26_254		3.2	1.5			0.010	0.081	-0.44	0.151	0.088	0.010			-0.036	0.135		0.0000	0.0030	0.594	0.454	-1.839
10/15/2013	1624	0917-173	10_15_1624_31_444		-2.6	1.5			0.028	0.080	-0.44	0.165	0.020	0.090			-0.130	0.110		0.0000	0.0030	0.094	0.458	2.007
10/15/2013	1624	0917-173	10_15_1624_31_444		0.4	1.4			0.049	0.080	-0.35	0.166	0.183	0.070			-0.100	0.111		0.0000	0.0030	-0.111	0.433	-2.066
10/15/2013	1624	0917-173	10_15_1624_31_444		1.2	1.3			0.041	0.081	-0.33	0.166	0.183	0.070			-0.100	0.111		0.0000	0.0030	0.284	0.452	-1.072
10/15/2013	1624	0917-173	10_15_1624_31_444		0.8	1.4			-0.031	0.080	-0.47	0.166	0.030	0.110			-0.124	0.119		0.0000	0.0030	0.418	0.438	1.108
10/15/2013	1628	0917-173	10_15_1628_48_464		-0.6	1.5			0.076	0.086	-0.52	0.168	0.070	0.080			-0.108	0.145		0.0000	0.0030	-0.89	0.473	-2.085
10/15/2013	1628	0917-173	10_15_1628_48_464		1.6	1.6			0.018	0.090	-0.45	0.168	0.070	0.080			-0.113	0.145		0.0000	0.0030	0.412	0.482	-2.076
10/15/2013	1630	0917-173	10_15_1630_25_014		-1.2	1.4			0.050	0.082	-0.48	0.168	0.070	0.080			-0.113	0.145		0.0000	0.0030	0.054	0.489	-1.072
10/15/2013	1630	0917-173	10_15_1630_25_014		0.8	1.5			0.025	0.084	-0.42	0.168	0.070	0.080			-0.113	0.145		0.0000	0.0030	-0.89	0.473	-2.085
10/15/2013	1631	0917-173	10_15_1631_13_424		1.6	1.5			0.020	0.083	-0.48	0.168	0.070	0.080			-0.113	0.145		0.0000	0.0030	0.412	0.482	-2.076
10/15/2013	1631	0917-173	10_15_1631_13_424		1.6	1.5			0.020	0.083	-0.48	0.168	0.070	0.080			-0.113	0.145		0.0000	0.0030	0.412	0.482	-2.076
10/15/2013	1631	0917-173	10_15_1631_13_424		1.6	1.5			0.020	0.083	-0.48	0.168	0.070	0.080			-0.113	0.145		0.0000	0.0030	0.412	0.482	-2.076
10/15/2013	1631	0917-173	10_15_1631_13_424		1.6	1.5			0.020	0.083	-0.48	0.168	0.070	0.080			-0.113	0.145		0.0000	0.0030	0.412	0.482	-2.076
10/15/2013	1631	0917-173	10_15_1631_13_424		1.6	1.5			0.020	0.083	-0.48	0.168	0.070	0.080			-0.113	0.145		0.0000	0.0030	0.412	0.482	-2.076
10/15/2013	1631	0917-173	10_15_1631_13_424		1.6	1.5			0.020	0.083	-0.48	0.168	0.070	0.080			-0.113	0.145		0.0000	0.0030	0.412	0.482	-2.076
10/15/2013	1631	0917-173	10_15_1631_13_424		1.6	1.5			0.020	0.083	-0.48	0.168	0.070	0.080			-0.113	0.145		0.0000	0.0030	0.412	0.482	-2.076
10/15/2013	1631	0917-173	10_15_1631_13_424		1.6	1.5			0.020	0.083	-0.48	0.168	0.070	0.080			-0.113	0.145		0.0000	0.0030	0.412	0.482	-2.076
10/15/2013	1631	0917-173	10_15_1631_13_424		1.6	1.5			0.020	0.083	-0.48	0.168	0.070	0.080			-0.113	0.145		0.0000	0.0030	0.412	0.482	-2.076
10/15/2013	1631	0917-173	10_15_1631_13_424		1.6	1.5			0.020	0.083	-0.48	0.168	0.070	0.080			-0.113	0.145		0.0000	0.0030	0.412	0.482	-2.076
10/15/2013	1631	0917-173	10_15_1631_13_424		1.6	1.5			0.020	0.083	-0.48	0.168	0.070	0.080			-0.113	0.145		0.0000	0.0030	0.412	0.482	-2.076
10/15/2013	1631	0917-173	10_15_1631_13_424		1.6	1.5			0.020	0.083	-0.48	0.168	0.070	0.080			-0.113	0.145		0.0000	0.0030	0.412	0.482	-2.076
10/15/2013	1631	0917-173	10_15_1631_13_424		1.6	1.5			0.020	0.083	-0.48	0.168	0.070	0.080			-0.113	0.145		0.0000	0.0030	0.412	0.482	-2.076
10/15/2013	1631	0917-173	10_15_1631_13_424		1.6	1.5			0.020	0.083	-0.48	0.168	0.070	0.080			-0.113	0.145		0.0000	0.0030	0.412	0.482	-2.076
10/15/2013	1631	0917-173	10_15_1631_13_424		1.6	1.5			0.020	0.083	-0.48	0.168	0.070	0.080			-0.113	0.145		0.0000	0.0030	0.412	0.482	-2.076
10/15/2013	1631	0917-173	10_15_1631_13_424		1.6	1.5			0.020	0.083	-0.48	0.168	0.070	0.080			-0.113	0.145		0.0000	0.0030	0.412	0.482	-2.076
10/15/2013	1631	0917-173	10_15_1631_13_424		1.6	1.5			0.020	0.083	-0.48	0.168	0.070	0.0										

Location	Dir.	#	Start/Stop	Instrument	Label 1-Analyte	Label 2-Analyte	Label 3-Analyte/Spice	Label 4-Analyte	Label 5-Analyte	Label Tracer	Label 6-Analyte							
Date	Method	Filename	DP	Acquiren (ppm)	SEC (ppm)	Formaldelhyde (ppm)	SEC (ppm)	Methanol (ppm)	SEC (ppm)	Phenol (ppm)	SEC (ppm)	Freonondelhyde (ppm)	SEC (ppm)	Sulfur_hexafluoride (ppm)	SEC (ppm)	acetaldehyde (ppm)	SEC (ppm)	acetone (ppm)
10/12/2013	1850	0917-173_10_15_1808_20_09	1	0.40	1.700	0.817	0.280	3.32	0.70	-0.22	2.20	-2.36	0.87	-0.0000	0.0000	-0.1	0.87	119.09
10/12/2013	1850	0917-173_10_15_1808_20_09	1	-0.19	1.562	0.960	0.214	3.25	0.31	-0.16	2.18	-0.76	0.59	-0.0000	0.0000	-0.4	0.87	119.11
10/12/2013	1850	0917-173_10_15_1808_20_09	1	-0.93	1.498	0.880	0.234	3.27	0.174	-2.10	2.19	-1.82	0.81	-0.0000	0.0000	-0.5	0.86	119.22
10/12/2013	1850	0917-173_10_15_1808_20_09	1	0.00	1.619	0.958	0.235	3.33	0.173	-0.12	2.20	3.82	0.51	-0.0000	0.0000	-0.9	0.89	119.09
10/12/2013	1850	0917-173_10_15_1808_20_09	1	-0.28	1.829	1.100	0.240	3.28	0.75	-0.90	2.18	-1.44	0.61	-0.0000	0.0000	-0.3	0.87	119.05
10/12/2013	1850	0917-173_10_15_1808_20_09	1	-0.69	1.692	1.094	0.241	3.23	0.372	-0.50	2.20	-2.11	0.82	-0.0000	0.0000	-1.1	0.85	118.63
10/12/2013	1801	0917-173_10_15_1801_24_67	1	-3.40	1.647	1.179	0.239	3.34	0.174	-0.43	2.20	-2.38	0.87	-0.0000	0.0000	-0.2	0.86	118.324
10/12/2013	1802	0917-173_10_15_1802_21_47	1	-1.75	1.625	1.092	0.238	3.39	0.173	-0.05	2.19	-2.01	0.92	-0.0000	0.0000	-0.4	0.86	118.35
10/12/2013	1803	0917-173_10_15_1803_22_20	1	-2.26	1.996	1.050	0.237	3.12	0.178	-1.18	2.19	-1.82	0.85	-0.0000	0.0000	-0.4	0.87	117.42
10/12/2013	1804	0917-173_10_15_1804_28_08	1	-2.43	1.705	0.981	0.236	3.34	0.180	-0.54	2.18	-0.72	0.92	-0.0000	0.0000	-0.5	0.89	117.86
10/12/2013	1805	0917-173_10_15_1805_27_87	1	-1.24	1.598	1.077	0.242	3.30	0.181	-0.87	2.20	-1.84	0.89	-0.0000	0.0000	-0.5	0.89	117.86
10/12/2013	1806	0917-173_10_15_1806_28_36	1	3.83	1.833	1.094	0.241	3.32	0.177	-0.89	2.19	-0.51	0.92	-0.0000	0.0000	-1.1	0.88	118.599
10/12/2013	1807	0917-173_10_15_1807_28_43	1	-1.59	1.829	0.979	0.239	3.32	0.178	-0.39	2.20	-2.34	0.80	-0.0000	0.0000	-0.4	0.87	117.8
10/12/2013	1808	0917-173_10_15_1808_29_07	1	-0.18	1.873	1.030	0.232	3.31	0.175	-0.48	2.19	-2.25	0.89	-0.0000	0.0000	-0.5	0.87	117.86
10/12/2013	1809	0917-173_10_15_1809_29_63	1	2.75	1.884	0.987	0.235	3.24	0.175	-0.61	2.20	-1.84	0.87	-0.0000	0.0000	-1.1	0.86	118.394
10/12/2013	1810	0917-173_10_15_1810_31_38	1	-0.42	1.861	0.957	0.223	3.24	0.171	-0.26	2.20	-2.21	0.94	-0.0000	0.0000	-0.5	0.86	117.84
10/12/2013	1811	0917-173_10_15_1811_31_38	1	1.90	1.977	0.949	0.222	3.19	0.169	-0.11	2.20	-1.71	0.84	-0.0000	0.0000	-0.5	0.86	117.84
10/12/2013	1812	0917-173_10_15_1812_31_37	1	-2.43	1.904	0.922	0.218	3.29	0.189	-0.69	2.20	-1.82	0.83	-0.0000	0.0000	-0.5	0.86	118.599
10/12/2013	1813	0917-173_10_15_1813_31_38	1	-2.43	1.548	0.910	0.222	3.28	0.168	-0.89	2.20	-1.76	0.84	-0.0000	0.0000	-0.5	0.85	118.848
10/12/2013	1814	0917-173_10_15_1814_31_38	1	0.09	1.641	1.035	0.224	3.32	0.170	-0.79	2.22	-1.59	0.86	-0.0000	0.0000	-0.5	0.86	118.848
10/12/2013	1815	0917-173_10_15_1815_31_38	1	-2.84	1.841	0.919	0.218	3.15	0.189	-0.51	2.19	-1.64	0.83	-0.0000	0.0000	-0.5	0.86	118.599
10/12/2013	1816	0917-173_10_15_1816_31_38	1	-0.80	1.820	1.061	0.224	3.10	0.170	-0.87	2.20	-1.85	0.84	-0.0000	0.0000	-0.5	0.86	118.599
10/12/2013	1817	0917-173_10_15_1817_31_38	1	-3.70	1.980	0.970	0.215	3.10	0.168	-0.58	2.20	-1.93	0.82	-0.0000	0.0000	-0.5	0.86	118.599
10/12/2013	1818	0917-173_10_15_1818_31_38	1	-1.21	1.547	1.114	0.220	3.02	0.165	-0.18	2.19	-1.84	0.82	-0.0000	0.0000	-0.5	0.86	118.599
10/12/2013	1819	0917-173_10_15_1819_31_38	1	-1.50	1.819	0.908	0.214	3.08	0.182	-0.65	2.19	-0.91	0.80	-0.0000	0.0000	-0.4	0.86	118.04
10/12/2013	1820	0917-173_10_15_1820_31_38	1	-0.82	1.740	1.025	0.212	3.00	0.184	-0.23	2.20	-1.60	0.79	-0.0000	0.0000	-0.4	0.86	118.04
10/12/2013	1821	0917-173_10_15_1821_31_38	1	-3.13	1.862	0.913	0.213	3.06	0.183	-0.12	2.19	-1.86	0.89	-0.0000	0.0000	-0.4	0.86	118.04
10/12/2013	1822	0917-173_10_15_1822_31_38	1	-2.69	1.880	0.940	0.217	3.00	0.184	-0.09	2.19	-1.16	0.80	-0.0000	0.0000	-0.5	0.86	118.04
10/12/2013	1823	0917-173_10_15_1823_31_38	1	-4.19	1.576	0.918	0.212	3.00	0.163	-0.89	2.19	-1.13	0.81	-0.0000	0.0000	-0.5	0.86	118.04
10/12/2013	1824	0917-173_10_15_1824_31_38	1	3.68	1.840	1.044	0.214	3.01	0.183	-0.13	2.19	-1.65	0.81	-0.0000	0.0000	-0.5	0.86	118.04
10/12/2013	1825	0917-173_10_15_1825_31_38	1	-0.23	1.833	0.961	0.214	2.86	0.180	-0.80	2.19	-1.17	0.80	-0.0000	0.0000	-0.4	0.86	117.71
10/12/2013	1826	0917-173_10_15_1826_31_38	1	-0.83	1.824	0.911	0.215	2.86	0.180	-0.64	2.19	-1.26	0.81	-0.0000	0.0000	-0.4	0.86	117.71
10/12/2013	1827	0917-173_10_15_1827_31_38	1	-0.53	1.825	0.923	0.210	2.97	0.183	-0.20	2.19	-1.84	0.81	-0.0000	0.0000	-0.5	0.86	117.71
10/12/2013	1828	0917-173_10_15_1828_31_38	1	-1.57	1.979	1.020	0.215	3.08	0.168	-0.44	2.19	-1.68	0.82	-0.0000	0.0000	-0.5	0.86	117.71
10/12/2013	1829	0917-173_10_15_1829_31_38	1	0.12	1.583	0.984	0.220	3.09	0.170	-0.29	2.18	-2.08	0.82	-0.0000	0.0000	-0.5	0.86	117.71
10/12/2013	1830	0917-173_10_15_1830_31_38	1	7.12	1.548	0.788	0.222	2.92	0.172	-1.20	2.17	-2.19	0.81	-0.0000	0.0000	-0.5	0.86	117.71
10/12/2013	1831	0917-173_10_15_1831_31_38	1	-0.65	1.854	0.997	0.219	3.14	0.176	-0.74	2.19	-1.84	0.84	-0.0000	0.0000	-0.5	0.86	117.71
10/12/2013	1832	0917-173_10_15_1832_31_38	1	-0.84	1.648	0.774	0.222	2.98	0.178	-0.32	2.19	-2.42	0.85	-0.0000	0.0000	-0.5	0.86	117.71
10/12/2013	1833	0917-173_10_15_1833_31_38	1	-2.02	1.641	0.720	0.228	3.31	0.182	-0.11	2.20	-2.08	0.84	-0.0000	0.0000	-0.4	0.86	117.71
10/12/2013	1834	0917-173_10_15_1834_31_38	1	-2.41	1.600	0.659	0.222	3.42	0.179	-0.80	2.20	-2.46	0.83	-0.0000	0.0000	-0.4	0.86	117.71
10/12/2013	1835	0917-173_10_15_1835_31_38	1	-1.15	1.840	0.940	0.219	3.39	0.172	-0.31	2.20	-2.23	0.79	-0.0000	0.0000	-0.4	0.86	117.71
10/12/2013	1836	0917-173_10_15_1836_31_38	1	-0.83	1.588	0.789	0.228	3.26	0.186	-0.42	2.19	-2.14	0.78	-0.0000	0.0000	-0.5	0.86	117.71
10/12/2013	1837	0917-173_10_15_1837_31_38	1	-0.12	1.979	0.975	0.220	3.21	0.188	-0.61	2.21	-1.89	0.78	-0.0000	0.0000	-0.5	0.86	117.71
10/12/2013	1838	0917-173_10_15_1838_31_38	1	-0.15	1.822	0.939	0.229	3.21	0.181	-0.21	2.19	-2.33	0.78	-0.0000	0.0000	-0.5	0.86	117.71
10/12/2013	1839	0917-173_10_15_1839_31_38	1	-0.33	1.822	0.712	0.197	3.19	0.183	-0.88	2.20	-2.46	0.74	-0.0000	0.0000	-0.4	0.86	117.71
10/12/2013	1840	0917-173_10_15_1840_31_38	1	-2.87	1.735	0.888	0.238	3.18	0.181	-0.13	2.20	-1.80	0.78	-0.0000	0.0000	-0.5	0.86	117.71
10/12/2013	1841	0917-173_10_15_1841_31_38	1	0.41	1.846	0.918	0.215	3.16	0.183	-1.16	2.19	-2.14	0.78	-0.0000	0.0000	-0.5	0.86	117.71
10/12/2013	1842	0917-173_10_15_1842_31_38	1	0.09	1.685	0.847	0.211	3.14	0.181	0.023	2.19	-1.73	0.74	-0.0000	0.0000	-0.5	0.86	117.71
10/12/2013	1843	0917-173_10_15_1843_31_38	1	-3.25	1.996	0.970	0.203	3.07	0.180	-0.89	2.20	-1.89	0.76	-0.0000	0.0000	-0.5	0.86	117.71
10/12/2013	1844	0917-173_10_15_1844_31_38	1	-0.18	1.548	0.721	0.218	3.05	0.185	-0.10	2.19	-2.72	0.82	-0.0000	0.0000	-0.5	0.86	117.71
10/12/2013	1845	0917-173_10_15_1845_31_38	1	0.38	1.890	0.980	0.201	3.09	0.156	-0.96	2.19	-1.36	0.72	-0.0000	0.0000	-0.5	0.86	117.71
10/12/2013	1846	0917-173_10_15_1846_31_38	1	3.88	1.840	-1.688	0.254	0.499	0.090	0.236	1.14	0.31	0.59	-0.0000	0.0000	-0.76	0.86	117.71
10/12/2013	1847</																	

Location Dec. # Start/Stop Instrument

Data Run 12 Start A

Date	Method	Filename	Label	Label	Label	Label	Label	Label	Label	Label	Label	Label					
			3-Analyte	2-Analyte	3-Analyte/Spice	Analyte	5-Analyte	5-Analyte	Tracer	6-Analyte							
DR	Acronym	SPEC	SEC	Formaldehyde	SEC	Methanol	Formaldehyde	SEC	Propionaldehyde	SEC	Sulfur/Yield/Fluoride	SEC	Formaldehyde	SEC	Formaldehyde	SEC	
10/16/2013 13:09	0917-173	10_16_1309_43_691	0.85	0.72	0.83	0.104	-0.0600	0.040	-0.140	0.0900	-0.0700	0.0000	1.14	0.403	12.023		
10/16/2013 13:09	0917-173	10_16_1309_44_401	-1.89	0.88	-0.450	0.076	0.040	0.230	-0.194	0.0610	2.654	0.18	-1.26	0.316	7.037		
10/16/2013 13:11	0917-173	10_16_1311_45_181	-1.69	0.91	-0.115	0.051	0.070	0.140	-0.174	0.0600	2.454	0.08	-0.0000	0.0000	0.255	0.738	12.211
10/16/2013 13:11	0917-173	10_16_1311_45_992	-1.310	0.981	-0.009	0.055	0.142	0.0390	0.105	0.467	-0.709	0.11	0.0000	0.0000	-0.74	0.971	9.989
10/16/2013 13:15	0917-173	10_16_1315_46_712	-1.98	1.267	-0.010	0.069	1.208	0.0000	0.196	1.872	-2.941	0.28	-0.0000	0.0000	-0.5	0.375	42.161
10/16/2013 13:15	0917-173	10_16_1315_46_840	-0.6	1.224	-0.0000	0.064	1.208	0.0000	0.212	1.894	-3.991	0.28	-0.0000	0.0000	-1.0	0.382	20.810
10/16/2013 13:16	0917-173	10_16_1316_47_180	0.291	1.207	-0.026	0.088	1.133	0.0000	0.104	1.873	-2.834	0.25	-0.0000	0.0000	-0.82	0.383	36.202
10/16/2013 13:17	0917-173	10_16_1317_48_800	0.195	1.155	-0.040	0.063	0.975	0.060	0.161	1.837	-2.847	0.21	0.0000	0.0000	-0.57	0.368	31.968
10/16/2013 13:18	0917-173	10_16_1318_49_140	-0.167	1.236	-0.010	0.078	0.820	0.0000	0.485	1.823	-3.962	0.21	-0.0000	0.0000	0.65	0.381	25.837
10/16/2013 13:20	0917-173	10_16_1320_49_400	0.74	1.884	-0.004	0.076	0.832	0.040	0.475	1.804	-1.813	0.21	-0.0000	0.0000	-1.85	0.360	27.587
10/16/2013 13:21	0917-173	10_16_1321_49_740	0.60	1.576	0.006	0.060	0.889	0.040	0.585	1.904	-2.856	0.27	-0.0000	0.0000	-0.55	0.359	31.255
10/16/2013 13:22	0917-173	10_16_1322_49_770	-0.14	1.286	0.000	0.076	0.865	0.090	0.621	1.807	-1.87	0.21	-0.0000	0.0000	0.45	0.369	27.822
10/16/2013 13:23	0917-173	10_16_1323_49_900	-0.24	1.147	-0.010	0.076	0.893	0.030	0.478	1.811	-1.92	0.18	-0.0000	0.0000	-0.60	0.350	25.9
10/16/2013 13:24	0917-173	10_16_1324_50_200	-1.31	1.241	-0.048	0.062	0.987	0.070	0.654	1.817	-2.990	0.21	0.0000	0.0000	-1.08	0.365	32.491
10/16/2013 13:25	0917-173	10_16_1325_49_140	0.62	1.319	0.029	0.081	1.179	0.020	0.544	1.856	-1.68	0.24	-0.0000	0.0000	0.76	0.360	17.73
10/16/2013 13:25	0917-173	10_16_1325_49_180	-1.97	1.267	-0.127	0.090	1.117	0.0000	0.521	1.834	-3.168	0.28	-0.0000	0.0000	-0.54	0.371	40.046
10/16/2013 13:27	0917-173	10_16_1327_49_811	0.39	1.833	-0.020	0.087	1.139	0.0000	0.447	1.848	-2.79	0.26	-0.0000	0.0000	-0.20	0.386	34.604
10/16/2013 13:28	0917-173	10_16_1328_49_771	0.40	1.379	0.029	0.091	1.179	0.020	0.544	1.856	-1.68	0.24	-0.0000	0.0000	0.76	0.360	17.73
10/16/2013 13:28	0917-173	10_16_1328_49_140	0.62	1.319	0.029	0.081	1.179	0.020	0.544	1.856	-1.68	0.24	-0.0000	0.0000	0.76	0.360	17.73
10/16/2013 13:30	0917-173	10_16_1330_49_003	0.30	1.291	0.010	0.081	1.069	0.040	0.582	1.883	-2.340	0.25	-0.0000	0.0000	-0.80	0.395	35.701
10/16/2013 13:31	0917-173	10_16_1331_49_866	-1.21	1.510	-0.052	0.095	1.039	0.0000	0.333	1.857	-2.54	0.24	-0.0000	0.0000	-0.21	0.388	31.924
10/16/2013 13:32	0917-173	10_16_1332_49_611	-0.62	1.252	-0.049	0.082	1.082	0.050	0.298	1.913	-0.63	0.26	-0.0000	0.0000	-0.97	0.384	35.277
10/16/2013 13:33	0917-173	10_16_1333_49_131	-0.58	1.406	-0.016	0.081	1.037	0.040	0.308	1.905	-0.704	0.27	-0.0000	0.0000	-0.89	0.401	38.829
10/16/2013 13:34	0917-173	10_16_1334_49_815	-0.47	1.299	-0.017	0.088	1.098	0.030	0.243	1.896	-0.829	0.28	-0.0000	0.0000	-0.62	0.376	41.091
10/16/2013 13:35	0917-173	10_16_1335_49_291	1.89	1.799	-0.0900	0.074	1.148	0.020	0.282	1.867	1.769	0.38	-0.0000	0.0000	-0.4	0.387	40.474
10/16/2013 13:36	0917-173	10_16_1336_49_481	-0.40	1.350	0.014	0.096	1.056	0.050	0.236	1.874	-2.57	0.28	-0.0000	0.0000	-1.27	0.382	46.211
10/16/2013 13:37	0917-173	10_16_1337_49_272	-1.98	1.268	-0.027	0.088	1.151	0.080	0.248	1.879	-1.49	0.28	-0.0000	0.0000	-0.65	0.369	29.344
10/16/2013 13:38	0917-173	10_16_1338_49_868	0.6	1.224	-0.234	0.089	1.024	0.0000	0.235	1.869	-0.36	0.29	-0.0000	0.0000	-1.02	0.386	42.718
10/16/2013 13:39	0917-173	10_16_1339_49_782	1.44	1.217	0.091	0.092	1.062	0.080	0.241	1.858	-2.46	0.27	-0.0000	0.0000	-0.55	0.371	38.556
10/16/2013 13:40	0917-173	10_16_1340_49_447	0.246	1.298	-0.109	0.087	1.081	0.040	0.427	1.854	-2.341	0.23	-0.0000	0.0000	-0.36	0.368	38.874
10/16/2013 13:41	0917-173	10_16_1341_49_791	-1.47	1.218	-0.056	0.086	1.092	0.0000	0.379	1.877	-3.14	0.24	-0.0000	0.0000	-0.50	0.386	35.719
10/16/2013 13:42	0917-173	10_16_1342_49_862	-0.79	1.258	-0.044	0.086	0.957	0.010	0.354	1.846	-2.05	0.23	-0.0000	0.0000	-1.25	0.375	31.219
10/16/2013 13:43	0917-173	10_16_1343_49_792	0.11	1.221	-0.010	0.079	0.985	0.070	0.247	1.846	-1.994	0.21	-0.0000	0.0000	-0.68	0.379	28.247
10/16/2013 13:44	0917-173	10_16_1344_49_862	-0.38	1.225	-0.041	0.088	1.084	0.020	0.313	1.877	-3.202	0.23	-0.0000	0.0000	-0.36	0.389	35.956
10/16/2013 13:45	0917-173	10_16_1345_49_141	-0.468	1.188	-0.009	0.078	0.871	0.061	0.333	1.861	-1.778	0.18	-0.0000	0.0000	-1.12	0.367	31.605
10/16/2013 13:46	0917-173	10_16_1346_49_042	0.53	1.241	-0.017	0.081	0.887	0.020	0.281	1.890	-1.572	0.14	-0.0000	0.0000	-0.48	0.382	21.046
10/16/2013 13:47	0917-173	10_16_1347_49_782	0.42	1.218	0.047	0.087	0.947	0.0000	0.354	1.852	-1.48	0.24	-0.0000	0.0000	-0.48	0.378	25.556
10/16/2013 13:48	0917-173	10_16_1348_49_141	0.80	1.194	-0.012	0.077	1.037	0.090	0.261	1.918	-1.82	0.18	-0.0000	0.0000	-0.84	0.382	23.762
10/16/2013 13:49	0917-173	10_16_1349_49_352	1.01	1.502	0.044	0.078	0.988	0.090	0.331	1.923	-1.369	0.19	-0.0000	0.0000	-0.27	0.392	24.326
10/16/2013 13:50	0917-173	10_16_1350_49_256	0.71	1.243	-0.027	0.086	1.026	0.090	0.320	1.905	-1.026	0.19	-0.0000	0.0000	-0.2	0.376	41.568
10/16/2013 13:51	0917-173	10_16_1351_49_160	1.89	1.498	-0.115	0.078	0.985	0.040	0.588	1.823	-1.47	0.19	-0.0000	0.0000	-1.02	0.376	38.208
10/16/2013 13:52	0917-173	10_16_1352_49_603	-1.58	1.197	-0.170	0.084	0.904	0.0000	0.458	1.904	-1.476	0.20	-0.0000	0.0000	-0.88	0.386	24.544
10/16/2013 13:53	0917-173	10_16_1353_49_815	0.097	1.498	-0.089	0.089	1.096	0.0000	0.429	1.918	-1.32	0.19	-0.0000	0.0000	-0.26	0.382	22.729
10/16/2013 13:54	0917-173	10_16_1354_49_088	-0.37	1.349	-0.014	0.076	1.028	0.0000	0.548	1.803	-1.32	0.18	-0.0000	0.0000	-0.67	0.380	21.793
10/16/2013 13:55	0917-173	10_16_1355_49_473	-1.81	1.546	-0.180	0.075	0.989	0.080	0.589	1.901	-1.478	0.18	-0.0000	0.0000	-0.67	0.380	21.963
10/16/2013 13:56	0917-173	10_16_1356_49_598	-0.23	1.254	-0.049	0.079	0.918	0.090	0.310	1.911	-1.339	0.18	-0.0000	0.0000	-0.52	0.382	27.512
10/16/2013 13:57	0917-173	10_16_1357_49_284	-0.98	1.441	-0.061	0.081	0.987	0.040	0.588	1.892	-1.428	0.18	-0.0000	0.0000	-0.48	0.382	24.544
10/16/2013 13:58	0917-173	10_16_1358_49_284	0.36	1.529	-0.080	0.078	1.286	0.090	0.330	1.935	-1.550	0.19	-0.0000	0.0000	-0.27	0.389	21.449
10/16/2013 13:59	0917-173	10_16_1359_49_388	-0.98	1.406	-0.067	0.079	1.095	0.0000	0.283	1.918	-1.339	0.19	-0.0000	0.0000	-0.2	0.389	25.568
10/16/2013 14:00	0917-173	10_16_1400_49_388	-0.98	1.406	-0.067	0.079	1.095	0.0000	0.283	1.918	-1.339	0.19	-0.0000	0.0000	-0.2	0.389	25.568
10/16/2013 14:01	0917-173	10_16_1401_49_323	-0.98	1.406	-0.067	0.079	1.095	0.0000	0.283	1.918	-1.339	0.19	-0.0000	0.0000	-0.2	0.389	25.568
10/16/2013 14:02	0917-173	10_16_1402_49_253	-0.98	1.406	-0.067	0.079	1.095	0.0000	0.283	1.918	-1.339	0.19	-0.0000				

Location	Disc.	#	Start/Stop	Instrument	Date	Method	Filename	DF	Acrolein (ppm)	Label 1-Analyte	Label 2-Analyte	Label 3-Analyte	Label 4-Analyte	Label 5-Analyte	Label 6-Analyte	Label 7-Analyte	Label 8-Analyte	Label 9-Analyte	Label 10-Analyte	Label 11-Analyte	Label 12-Analyte	Label 13-Analyte	Label 14-Analyte	Label 15-Analyte	Label 16-Analyte	Label 17-Analyte	Label 18-Analyte	Label 19-Analyte	Label 20-Analyte							
10/6/2013	1530	0917-173	10_16_1530_56_581	1	5.788	2.813			0.082	0.361	0.0330	0.1190	0.988	2.033	-0.253	0.250	0.0100	0.00600	0.09	0.40	0.308															
10/6/2013	1531	0917-173	10_16_1531_07_751	1	5.130	2.792			0.141	0.338	-0.1000	0.1290	0.761	2.021	0.146	0.137	-0.0560	0.00600	0.34	0.79	0.192															
10/6/2013	1531	0917-173	10_16_1531_08_801	1	5.05	2.904			0.256	0.356	-0.0920	0.1260	0.699	1.992	-0.074	0.158	-0.2150	0.00500	0.29	0.85	0.169															
10/6/2013	1531	0917-173	10_16_1531_10_041	1	2.170	2.898			-0.1870	0.150	-0.06000	0.1130	0.972	1.989	-0.165	0.253	0.00700	0.00700	-0.707	0.68	0.315															
10/6/2013	1531	0917-173	10_16_1531_11_111	1	4.514	2.771			-0.1720	0.155	0.084	0.123	0.985	1.975	-0.268	0.143	-0.00800	0.00800	0.444	0.83	0.235															
10/6/2013	1531	0917-173	10_16_1531_12_041	1	2.137	2.760			0.255	0.155	-0.0900	0.1140	0.906	1.972	-0.176	0.251	-0.01000	0.00800	0.46	0.82	0.249															
10/6/2013	1531	0917-173	10_16_1531_13_631	1	3.660	2.862			-0.170	0.147	0.1540	0.1140	1.3550	1.988	0.34	0.247	-0.00100	0.00900	-0.047	0.65	0.286															
10/6/2013	1531	0917-173	10_16_1531_15_721	1	5.213	2.855			-0.093	0.133	0.0290	0.128	1.080	1.984	-0.188	0.333	0.01400	0.00500	0.275	0.83	0.233															
10/6/2013	1531	0917-173	10_16_1531_17_101	1	1.45	2.967			-0.186	0.126	-0.158	0.1190	0.986	1.933	-0.333	0.217	-0.00100	0.00500	-0.047	0.79	0.284															
10/6/2013	1531	0917-173	10_16_1531_19_131	1	4.183	2.889			0.111	0.154	-0.060	0.1230	0.908	1.940	-0.181	0.256	0.00700	0.00600	-0.037	0.75	0.247															
10/6/2013	1531	0917-173	10_16_1531_21_311	1	3.291	2.337			-0.131	0.140	0.146	0.1190	0.914	1.891	-0.148	0.228	0.00700	0.00600	-0.047	0.75	0.247															
10/6/2013	1531	0917-173	10_16_1531_23_511	1	8.332	3.071			0.192	0.140	0.277	0.111	1.0510	1.887	-0.160	0.251	-0.00900	0.00500	-0.037	0.83	0.233															
10/6/2013	1531	0917-173	10_16_1531_25_611	1	-1.008	2.742			0.2000	0.153	0.183	0.1150	0.767	1.813	0.310	0.250	-0.00900	0.00600	-0.047	0.83	0.233															
10/6/2013	1531	0917-173	10_16_1531_27_711	1	-0.033	2.757			-0.131	0.145	0.0210	0.1190	0.996	1.809	-0.115	0.244	0.01400	0.00500	-0.037	0.83	0.233															
10/6/2013	1531	0917-173	10_16_1531_29_811	1	0.267	2.920			0.040	0.148	0.023	0.1170	0.971	1.872	-0.049	0.251	0.00200	0.00500	-0.037	0.83	0.233															
10/6/2013	1531	0917-173	10_16_1531_31_911	1	-2.487	2.939			0.168	0.155	0.304	0.1200	0.936	1.897	-0.070	0.247	-0.00200	0.00600	-0.037	0.83	0.233															
10/6/2013	1531	0917-173	10_16_1531_33_011	1	0.039	2.866			0.081	0.153	0.211	0.113	1.187	1.845	-0.090	0.247	0.00100	0.00600	-0.037	0.83	0.233															
10/6/2013	1531	0917-173	10_16_1531_35_111	1	2.667	2.916			-0.1070	0.139	-0.169	0.1160	0.931	1.872	-0.066	0.247	0.00000	0.00600	0.42	0.82	0.248															
10/6/2013	1531	0917-173	10_16_1531_37_211	1	0.6860	2.907			0.0920	0.147	0.365	0.1130	0.933	1.861	0.051	0.241	-0.01300	0.00500	0.85	0.82	0.226															
10/6/2013	1531	0917-173	10_16_1531_39_311	1	-4.093	3.008			0.080	0.145	0.1770	0.1200	0.948	1.877	-0.154	0.251	0.00500	0.00500	0.85	0.82	0.226															
10/6/2013	1531	0917-173	10_16_1531_41_411	1	2.299	2.959			0.020	0.154	0.246	0.1110	0.986	1.824	-0.018	0.253	0.00700	0.00600	0.49	0.85	0.252															
10/6/2013	1531	0917-173	10_16_1531_43_511	1	8.35	2.933			-0.143	0.153	0.1520	0.1200	1.016	1.854	-1.273	0.245	-0.00600	0.00500	1.84	0.77	0.195															
10/6/2013	1531	0917-173	10_16_1531_45_611	1	5.04	2.852			0.247	0.156	0.271	0.1170	0.973	1.818	-0.105	0.249	0.00800	0.00600	0.99	0.81	0.234															
10/6/2013	1531	0917-173	10_16_1531_47_711	1	-2.849	2.862			0.421	0.151	0.290	0.1170	0.971	1.802	-0.030	0.248	-0.00400	0.00600	0.67	0.82	0.222															
10/6/2013	1531	0917-173	10_16_1531_49_811	1	5.212	2.672			0.177	0.157	0.0160	0.1120	0.966	1.878	-0.124	0.150	-0.01700	0.00600	-0.32	0.84	0.182															
10/6/2013	1531	0917-173	10_16_1531_51_911	1	7.940	2.888			0.187	0.166	-0.211	0.143	0.523	1.707	-0.272	0.172	-0.01200	0.00700	0.180	0.91	0.688															
10/6/2013	1531	0917-173	10_16_1531_53_011	1	-6.818	2.907			-0.097	0.160	-0.379	0.136	0.994	1.604	-0.156	0.279	-0.01600	0.00700	-0.33	0.86	0.056															
10/6/2013	1531	0917-173	10_16_1531_55_111	1	-1.82	3.345			-0.072	0.177	-0.279	0.1153	1.333	1.615	-0.562	0.293	-0.01300	0.00700	-0.08	0.98	0.092															
10/6/2013	1531	0917-173	10_16_1531_57_211	1	3.780	2.989			-0.090	0.169	-0.038	0.149	0.824	1.549	-0.130	0.297	-0.01800	0.00700	-0.14	0.94	-0.038															
10/6/2013	1531	0917-173	10_16_1531_59_311	1	-4.951	3.187			-0.133	0.178	-0.139	0.149	1.814	1.656	-0.264	0.284	-0.01100	0.00600	-0.12	0.99	0.038															
10/6/2013	1531	0917-173	10_16_1531_61_411	1	-1.8580	3.198			0.164	0.182	0.2460	0.143	1.457	1.709	-0.340	0.296	-0.01100	0.00600	-0.12	0.99	0.038															
10/6/2013	1531	0917-173	10_16_1531_63_511	1	-2.312	3.101			-0.111	0.179	-0.1890	0.144	1.369	1.641	-0.322	0.296	-0.01300	0.00700	-0.15	0.99	0.115															
10/6/2013	1531	0917-173	10_16_1531_65_611	1	-4.084	3.105			-0.048	0.181	-0.248	0.139	1.679	1.629	-0.286	0.286	-0.00900	0.00700	-0.16	0.96	0.069															
10/6/2013	1531	0917-173	10_16_1531_67_711	1	5.6820	3.132			0.0930	0.180	-0.239	0.145	1.642	1.738	0.087	0.288	-0.01000	0.00700	-0.15	0.99	0.115															
10/6/2013	1531	0917-173	10_16_1531_69_811	1	-0.622	3.414			0.181	0.186	-0.002	0.152	0.939	1.718	0.113	0.284	-0.00900	0.00700	-0.25	0.97	0.107															
10/6/2013	1531	0917-173	10_16_1531_71_911	1	-1.115	3.181			-0.048	0.184	-0.080	0.149	1.603	1.659	-0.175	0.287	-0.00100	0.00700	-0.17	0.99	0.138															
10/6/2013	1531	0917-173	10_16_1531_73_011	1	-5.321	3.193			0.0950	0.173	-0.226	0.145	1.621	1.795	0.143	0.288	-0.00900	0.00700	-0.25	0.99																

Location Dstc # Start/Stop Instruments

Label 2-Analyte

Label 3-Analyte

Label 4-Analyte

Label 5-Analyte

Label 6-Analyte

Date	Method	FileName	OF Acetoin (ppm)	SFC (ppm)	Formatehydox (ppm)	SEC (ppm)	Methanol (ppm)	SEC (ppm)	Phenol (ppm)	SEC (ppm)	Propionaldehyde (ppm)	Sulfur Hexafluoride (ppm)	SEC (ppm)	acetoldehyde (ppm)	SEC (ppm)	amure gas	
10/4/2013 15:15	0617-175	1013_14_1515_21_131	-1.8000	1.2600	0.7620	0.1020	1.231	0.2770	0.14	2.24	-0.821	0.189	0.00000	0.02000	1.419	0.031	7416
10/4/2013 15:16	0617-175	1013_14_1516_21_132	2.0020	0.796	0.7640	0.1020	1.17	0.281	0.17	0.267	-0.031	0.044	0.00000	0.01000	0.01	0.019	7419
10/4/2013 15:27	0617-175	1013_14_1517_24_133	-2.0220	1.2467	0.8023	0.0996	1.30	0.272	0.29	2.16	-0.811	0.187	0.00000	0.01000	-0.908	0.040	7218
10/4/2013 15:28	0617-175	1013_14_1518_24_134	-1.7000	1.0783	0.8223	0.0986	1.03	0.275	0.29	2.16	-0.811	0.187	0.00000	0.01000	-0.908	0.040	7218
10/4/2013 15:29	0617-175	1013_14_1519_24_135	-2.841	1.786	0.86	0.100	1.21	0.278	0.20	2.16	-0.800	0.183	0.00000	0.01000	-0.838	0.032	7205
10/4/2013 15:30	0617-175	1013_14_1520_24_136	-0.62	1.783	0.811	0.0986	1.40	0.279	0.27	2.18	-0.790	0.182	0.00000	0.01000	-0.910	0.031	7258
10/4/2013 15:31	0617-175	1013_14_1521_27_137	-1.880	1.811	0.809	0.101	1.30	0.277	0.27	2.18	-0.797	0.171	0.00000	0.01000	-0.887	0.030	7551
10/4/2013 15:32	0617-175	1013_14_1522_24_138	-1.1000	1.828	0.610	0.0986	1.18	0.280	0.28	2.14	-1.140	0.186	0.00000	0.01000	-0.500	0.039	7551
10/4/2013 15:33	0617-175	1013_14_1523_29_139	-0.289	1.881	0.508	0.0986	1.18	0.280	0.28	2.14	-1.140	0.186	0.00000	0.01000	-1.08	0.046	7551
10/4/2013 15:34	0617-175	1013_14_1524_29_140	-1.880	1.874	0.700	0.0986	1.31	0.280	0.31	2.24	-0.988	0.187	0.00000	0.01000	-1.428	0.046	7579
10/4/2013 15:35	0617-175	1013_14_1525_29_141	-0.180	1.765	0.720	0.0986	1.30	0.280	0.30	2.18	-0.798	0.182	0.00000	0.01000	-1.30	0.039	7883
10/4/2013 15:36	0617-175	1013_14_1526_31_142	-2.460	1.814	0.650	0.100	1.48	0.289	0.14	2.18	-1.070	0.168	0.00000	0.01000	-0.926	0.040	7949
10/4/2013 15:37	0617-175	1013_14_1527_32_143	-4.9700	1.792	0.736	0.100	1.25	0.300	0.53	2.13	-0.810	0.187	0.00000	0.01000	-0.546	0.037	7544
10/4/2013 15:38	0617-175	1013_14_1528_27_144	-1.068	1.815	0.813	0.0986	1.51	0.311	0.11	2.13	-0.686	0.164	0.00000	0.01000	-0.820	0.030	7849
10/4/2013 15:39	0617-175	1013_14_1529_31_145	-1.408	1.882	0.818	0.102	1.34	0.314	0.20	2.12	-0.790	0.171	0.00000	0.01000	-1.11	0.036	7551
10/4/2013 15:40	0617-175	1013_14_1530_33_146	-3.44	1.778	0.888	0.099	1.37	0.308	0.23	2.14	-1.010	0.187	0.00000	0.01000	-1.239	0.036	7517
10/4/2013 15:41	0617-175	1013_14_1531_35_147	-1.820	1.837	0.889	0.097	1.28	0.304	0.54	2.28	-1.000	0.168	0.00000	0.01000	-1.239	0.036	7517
10/4/2013 15:42	0617-175	1013_14_1532_35_148	-1.017	1.814	0.678	0.099	1.25	0.288	0.69	2.26	-1.030	0.162	0.00000	0.01000	-0.84	0.030	7442
10/4/2013 15:43	0617-175	1013_14_1533_31_149	4.020	1.748	0.723	0.0986	1.38	0.274	0.13	2.17	-1.130	0.180	0.00000	0.01000	-0.986	0.033	7465
10/4/2013 15:44	0617-175	1013_14_1534_37_150	-3.818	1.802	0.825	0.097	1.42	0.317	0.27	2.14	-0.980	0.169	0.00000	0.01000	-0.820	0.030	7961
10/4/2013 15:45	0617-175	1013_14_1534_37_151	-2.878	1.851	0.700	0.0986	1.39	0.279	0.37	2.25	-0.970	0.165	0.00000	0.01000	-0.80	0.028	7541
10/4/2013 15:46	0617-175	1013_14_1534_37_152	-1.767	1.879	0.788	0.100	1.42	0.287	0.14	2.18	-0.877	0.171	0.00000	0.01000	-1.075	0.030	7287
10/4/2013 15:47	0617-175	1013_14_1534_37_153	-4.868	1.837	0.984	0.100	1.57	0.295	0.46	2.24	-0.767	0.171	0.00000	0.01000	-1.175	0.030	7581
10/4/2013 15:48	0617-175	1013_14_1534_37_154	-1.780	1.826	0.584	0.101	1.41	0.309	0.32	2.21	-0.754	0.171	0.00000	0.01000	-1.128	0.039	7245
10/4/2013 15:49	0617-175	1013_14_1534_37_155	-1.780	1.826	0.790	0.100	1.41	0.309	0.32	2.21	-0.754	0.171	0.00000	0.01000	-1.128	0.039	7245
10/4/2013 15:50	0617-175	1013_14_1534_37_156	-1.780	1.826	0.584	0.101	1.41	0.309	0.32	2.21	-0.754	0.171	0.00000	0.01000	-1.128	0.039	7245
10/4/2013 15:51	0617-175	1013_14_1534_37_157	-1.780	1.826	0.790	0.100	1.41	0.309	0.32	2.21	-0.754	0.171	0.00000	0.01000	-1.128	0.039	7245
10/4/2013 15:52	0617-175	1013_14_1534_37_158	-1.780	1.826	0.584	0.101	1.41	0.309	0.32	2.21	-0.754	0.171	0.00000	0.01000	-1.128	0.039	7245
10/4/2013 15:53	0617-175	1013_14_1534_37_159	-1.780	1.826	0.790	0.100	1.41	0.309	0.32	2.21	-0.754	0.171	0.00000	0.01000	-1.128	0.039	7245
10/4/2013 15:54	0617-175	1013_14_1534_37_160	-1.780	1.826	0.584	0.101	1.41	0.309	0.32	2.21	-0.754	0.171	0.00000	0.01000	-1.128	0.039	7245
10/4/2013 15:55	0617-175	1013_14_1534_37_161	-1.780	1.826	0.790	0.100	1.41	0.309	0.32	2.21	-0.754	0.171	0.00000	0.01000	-1.128	0.039	7245
10/4/2013 15:56	0617-175	1013_14_1534_37_162	-1.780	1.826	0.584	0.101	1.41	0.309	0.32	2.21	-0.754	0.171	0.00000	0.01000	-1.128	0.039	7245
10/4/2013 15:57	0617-175	1013_14_1534_37_163	-1.780	1.826	0.790	0.100	1.41	0.309	0.32	2.21	-0.754	0.171	0.00000	0.01000	-1.128	0.039	7245
10/4/2013 15:58	0617-175	1013_14_1534_37_164	-1.780	1.826	0.584	0.101	1.41	0.309	0.32	2.21	-0.754	0.171	0.00000	0.01000	-1.128	0.039	7245
10/4/2013 15:59	0617-175	1013_14_1534_37_165	-1.780	1.826	0.790	0.100	1.41	0.309	0.32	2.21	-0.754	0.171	0.00000	0.01000	-1.128	0.039	7245
10/4/2013 16:00	0617-175	1013_14_1534_37_166	-1.780	1.826	0.584	0.101	1.41	0.309	0.32	2.21	-0.754	0.171	0.00000	0.01000	-1.128	0.039	7245
10/4/2013 16:01	0617-175	1013_14_1534_37_167	-1.780	1.826	0.790	0.100	1.41	0.309	0.32	2.21	-0.754	0.171	0.00000	0.01000	-1.128	0.039	7245
10/4/2013 16:02	0617-175	1013_14_1534_37_168	-1.780	1.826	0.584	0.101	1.41	0.309	0.32	2.21	-0.754	0.171	0.00000	0.01000	-1.128	0.039	7245
10/4/2013 16:03	0617-175	1013_14_1534_37_169	-1.780	1.826	0.790	0.100	1.41	0.309	0.32	2.21	-0.754	0.171	0.00000	0.01000	-1.128	0.039	7245
10/4/2013 16:04	0617-175	1013_14_1534_37_170	-1.780	1.826	0.584	0.101	1.41	0.309	0.32	2.21	-0.754	0.171	0.00000	0.01000	-1.128	0.039	7245
10/4/2013 16:05	0617-175	1013_14_1534_37_171	-1.780	1.826	0.790	0.100	1.41	0.309	0.32	2.21	-0.754	0.171	0.00000	0.01000	-1.128	0.039	7245
10/4/2013 16:06	0617-175	1013_14_1534_37_172	-1.780	1.826	0.584	0.101	1.41	0.309	0.32	2.21	-0.754	0.171	0.00000	0.01000	-1.128	0.039	7245
10/4/2013 16:07	0617-175	1013_14_1534_37_173	-1.780	1.826	0.790	0.100	1.41	0.309	0.32	2.21	-0.754	0.171	0.00000	0.01000	-1.128	0.039	7245
10/4/2013 16:08	0617-175	1013_14_1534_37_174	-1.780	1.826	0.584	0.101	1.41	0.309	0.32	2.21	-0.754	0.171	0.00000	0.01000	-1.128	0.039	7245
10/4/2013 16:09	0617-175	1013_14_1534_37_175	-1.780	1.826	0.790	0.100	1.41	0.309	0.32	2.21	-0.754	0.171	0.00000	0.01000	-1.128	0.039	7245
10/4/2013 16:10	0617-175	1013_14_1534_37_176	-1.780	1.826	0.584	0.101	1.41	0.309	0.32	2.21	-0.754	0.171	0.00000	0.01000	-1.128	0.039	7245
10/4/2013 16:11	0617-175	1013_14_1534_37_177	-1.780	1.826	0.790	0.100	1.41	0.309	0.32	2.21	-0.754	0.171	0.00000	0.01000	-1.128	0.039	7245
10/4/2013 16:12	0617-175	1013_14_1534_37_178	-1.780	1.826	0.584	0.101	1.41	0.309	0.32	2.21	-0.754	0.171	0.00000	0.01000	-1.128	0.039	7245
10/4/2013 16:13	0617-175	1013_14_1534_37_179	-1.780	1.826	0.790	0.100	1.41	0.309	0.32	2.21	-0.754	0.171	0.00000	0.01000	-1.128	0.039	7245
10/4/2013 16:14	0617-175	1013_14_1534_37_180	-1.780	1.826	0.584	0.101	1.41	0.309	0.32	2.21	-0.754	0.171	0.00000	0.01000	-1.128	0.039	7245
10/4/2013 16:15	0617-175	1013_14_1534_37_181	-1.780	1.826	0.790	0.100	1.41	0.309	0.32	2.21	-0.754	0.171	0.00000	0.01000	-1.128	0.039	7245
10/4/2013 16:16	0617-175																

Table with columns: Location, Date, Method, File Name, and various analytical data points including Accrom (ppm), SEC (ppm), Formaldehyde (ppm), SEC (ppm), Metaranal (ppm), SEC (ppm), Phenol (ppm), SEC (ppm), Propionalsdehyde (ppm), SEC (ppm), Sulfur Hexafluoride (ppm), SEC (ppm), and Acetaldehyde (ppm), SEC (ppm), arene (ppm).

Location	Disc	#	Start/Stop	Instrument	Label 1-Analyte	Label 2-Analyte	Label 3-Analyte	Label 4-Analyte	Label 5-Analyte	Label Tracer	Label 6-Analyte							
Date	Method	Filename	DR	Acroslin (ppm)	SEC (ppm)	Formaldehyde (ppm)	SEC (ppm)	Methanol/Spike	SEC (ppm)	Phenol (ppm)	SEC (ppm)	Propionaldehyde (ppm)	SEC (ppm)	Sulfur Hexafluoride (ppm)	SEC (ppm)	Acetaldehyde (ppm)	SEC (ppm)	Pinene (ppm)
10/17/2013	1524	0917-173_10_15_1234_11_013	1	1.432	1.042	0.071	0.067	0.240	0.900	0.390	1.032	0.314	0.109	-0.0020	0.0020	0.315	0.048	0.315
10/17/2013	1525	0917-173_10_15_1235_11_062	1	1.010	1.081	0.005	0.005	0.002	0.001	0.491	1.113	0.112	0.002	-0.0020	0.0020	0.7160	0.315	1.987
10/17/2013	1526	0917-173_10_15_1236_11_063	1	1.9	1.4	0.370	0.087	0.42	1.57	0.060	1.070	0.116	0.137	0.008	0.633	0.1350	0.146	1.974
10/17/2013	1527	0917-173_10_15_1237_11_064	1	-1.3	1.5	0.0080	0.085	-0.36	1.61	0.115	0.210	0.110	0.139	0.034	0.647	-0.180	0.150	2.618
10/17/2013	1528	0917-173_10_15_1238_11_065	1	-1.3	1.5	-0.135	0.088	-0.44	1.64	0.166	0.308	0.010	0.166	0.078	0.638	0.078	0.250	2.623
10/17/2013	1529	0917-173_10_15_1239_11_066	1	-1.3	1.5	-0.303	0.083	-0.46	1.65	-0.0930	0.1030	0.054	0.136	0.054	0.661	-0.388	0.454	2.068
10/17/2013	1530	0917-173_10_15_1240_11_067	1	0.8	1.5	-0.0870	0.083	-0.44	1.66	-0.2020	0.1110	-0.163	0.139	0.095	0.661	0.30	0.403	2.063
10/17/2013	1531	0917-173_10_15_1241_11_068	1	1.5	1.5	-0.0930	0.084	-0.44	1.66	-0.1020	0.1110	-0.163	0.137	0.095	0.661	0.073	0.448	2.057
10/17/2013	1532	0917-173_10_15_1242_11_069	1	-1.3	1.5	-0.205	0.086	-0.44	1.66	-0.2970	0.1080	-0.163	0.139	0.095	0.661	-0.350	0.451	2.059
10/17/2013	1533	0917-173_10_15_1243_11_070	1	0.8	1.5	-0.0970	0.083	-0.44	1.66	-0.1020	0.1110	-0.163	0.137	0.095	0.661	-0.350	0.451	2.062
10/17/2013	1534	0917-173_10_15_1244_11_071	1	1.5	1.5	-0.0930	0.084	-0.44	1.66	-0.1020	0.1110	-0.163	0.137	0.095	0.661	0.073	0.448	2.057
10/17/2013	1535	0917-173_10_15_1245_11_072	1	2.2	1.5	0.037	0.082	0.49	1.66	0.0890	0.1100	0.091	0.131	0.067	0.659	-0.351	0.451	2.063
10/17/2013	1536	0917-173_10_15_1246_11_073	1	-1.9	1.4	-0.188	0.080	-0.47	1.66	-0.1390	0.1090	-0.091	0.131	0.067	0.659	-0.351	0.451	2.063
10/17/2013	1537	0917-173_10_15_1247_11_074	1	1.9	1.5	0.160	0.087	0.06	1.66	0.118	0.1040	0.177	0.139	0.073	0.657	-1.68A	0.459	2.093
10/17/2013	1538	0917-173_10_15_1248_11_075	1	3.4	1.6	0.032	0.081	-0.48	1.66	-0.0300	0.1100	0.19990	0.137	0.076	0.660	-0.096	0.454	2.065
10/17/2013	1539	0917-173_10_15_1249_11_076	1	-1.9	1.5	0.121	0.086	-0.48	1.66	-0.2180	0.1110	-0.033	0.135	0.099	0.660	-0.749	0.453	2.071
10/17/2013	1540	0917-173_10_15_1250_11_077	1	1.1	1.7	-0.0870	0.080	-0.59	1.66	0.0590	0.1110	0.301	0.135	0.063	0.660	0.04	0.467	2.065
10/17/2013	1541	0917-173_10_15_1251_11_078	1	-0.073	1.133	-0.027	0.077	0.079	0.870	0.410	1.897	-0.625	0.211	-0.0720	0.0100	-0.41	0.370	12.044
10/17/2013	1542	0917-173_10_15_1252_11_079	1	1.402	1.199	-0.061	0.063	1.093	0.880	0.4970	1.890	0.480	0.100	-0.0010	0.0100	-0.49	0.357	12.111
10/17/2013	1543	0917-173_10_15_1253_11_080	1	0.218	1.155	-0.017	0.078	0.080	0.960	0.560	1.790	-0.461	0.113	-0.0020	0.0100	-0.61	0.343	12.167
10/17/2013	1544	0917-173_10_15_1254_11_081	1	1.896	1.102	0.015	0.082	1.063	0.900	0.396	1.780	0.288	0.240	-0.0090	0.0100	-0.44	0.366	14.447
10/17/2013	1545	0917-173_10_15_1255_11_082	1	0.351	1.233	-0.090	0.084	1.008	0.600	0.411	1.784	-0.729	0.441	-0.0010	0.0100	0.35	0.361	14.668
10/17/2013	1546	0917-173_10_15_1256_11_083	1	-0.073	1.127	-0.140	0.086	0.938	0.860	0.3410	1.798	-0.370	0.184	-0.0010	0.0100	-1.45	0.403	19.231
10/17/2013	1547	0917-173_10_15_1257_11_084	1	-0.267	1.018	-0.571	0.111	-0.610	0.868	-0.065	0.1550	-4.4	0.199	-0.0010	0.0100	-1.82	0.433	12.066
10/17/2013	1548	0917-173_10_15_1258_11_085	1	0.074	1.005	-0.677	0.107	-0.680	0.870	0.0300	0.1570	-0.033	0.135	-0.0090	0.0100	-1.60	0.443	12.118
10/17/2013	1549	0917-173_10_15_1259_11_086	1	-0.146	1.044	-0.661	0.117	-0.670	0.870	0.0390	0.1600	-4.4	0.197	-0.0090	0.0100	-1.81	0.443	12.212
10/17/2013	1550	0917-173_10_15_1260_11_087	1	-0.551	1.005	-0.810	0.119	-0.770	0.860	-0.114	0.0970	-4.4	0.194	-0.0090	0.0100	-1.77	0.446	12.319
10/17/2013	1551	0917-173_10_15_1261_11_088	1	0.028	1.008	-0.925	0.139	-0.870	0.860	0.0590	0.1510	-4.39	0.186	-0.0090	0.0100	-1.93	0.440	12.611
10/17/2013	1552	0917-173_10_15_1262_11_089	1	2.147	1.110	-0.100	0.080	1.070	0.810	0.518	1.574	-0.421	0.212	-0.0090	0.0100	-1.17	0.440	20.861
10/17/2013	1553	0917-173_10_15_1263_11_090	1	0.962	1.124	-0.028	0.086	1.008	0.870	0.690	1.773	-1.80	0.511	-0.0090	0.0100	-0.91	0.398	12.247
10/17/2013	1554	0917-173_10_15_1264_11_091	1	-0.611	1.178	-0.028	0.083	0.960	0.860	0.510	1.771	-1.75	0.511	-0.0090	0.0100	-0.64	0.361	17.223
10/17/2013	1555	0917-173_10_15_1265_11_092	1	0.188	1.188	-0.017	0.083	1.070	0.870	0.620	1.778	-0.50	0.460	-0.0090	0.0100	-0.39	0.361	17.329
10/17/2013	1556	0917-173_10_15_1266_11_093	1	2.384	1.195	-0.094	0.090	1.092	0.930	0.460	1.773	-0.89	0.370	-0.0090	0.0100	-0.12	0.369	19.416
10/17/2013	1557	0917-173_10_15_1267_11_094	1	1.440	1.287	-0.088	0.091	1.064	0.900	0.490	1.773	-0.247	0.378	-0.0090	0.0100	-0.24	0.402	14.666
10/17/2013	1558	0917-173_10_15_1268_11_095	1	1.522	1.342	-0.088	0.098	1.137	0.980	0.480	1.791	-0.805	0.288	-0.0090	0.0100	-0.24	0.360	18.773
10/17/2013	1559	0917-173_10_15_1269_11_096	1	0.100	1.399	0.017	0.088	1.182	0.980	0.410	1.780	-1.79	0.283	-0.0090	0.0100	-0.35	0.381	18.249
10/17/2013	1560	0917-173_10_15_1270_11_097	1	0.202	1.354	0.081	0.090	1.135	0.980	0.488	1.781	-0.920	0.278	-0.0090	0.0100	-0.85	0.393	19.411
10/17/2013	1561	0917-173_10_15_1271_11_098	1	1.613	1.219	0.024	0.089	1.139	0.980	0.498	1.784	-0.928	0.288	-0.0090	0.0100	-0.24	0.368	19.872
10/17/2013	1562	0917-173_10_15_1272_11_099	1	0.594	1.264	0.094	0.089	1.199	0.980	0.495	1.788	-0.925	0.277	-0.0090	0.0100	-0.97	0.365	19.913
10/17/2013	1563	0917-173_10_15_1273_11_100	1	-1.421	1.319	-0.008	0.087	1.139	0.970	0.400	1.781	-1.005	0.287	-0.0090	0.0100	-0.32	0.377	19.687
10/17/2013	1564	0917-173_10_15_1274_11_101	1	0.702	1.377	-0.073	0.094	1.131	0.970	0.470	1.787	-0.928	0.288	-0.0090	0.0100	-0.24	0.368	19.822
10/17/2013	1565	0917-173_10_15_1275_11_102	1	1.654	1.424	-0.088	0.088	1.080	0.870	0.470	1.784	-0.844	0.244	-0.0090	0.0100	-0.59	0.387	15.844
10/17/2013	1566	0917-173_10_15_1276_11_103	1	-0.802	1.286	-0.059	0.094	0.871	0.880	0.390	1.784	-0.708	0.288	-0.0090	0.0100	-0.28	0.370	14.988
10/17/2013	1567	0917-173_10_15_1277_11_104	1	1.400	1.320	-0.002	0.089	1.106	0.801	0.394	1.784	-0.554	0.312	-0.0090	0.0100	-1.17	0.345	14.317
10/17/2013	1568	0917-173_10_15_1278_11_105	1	0.830	1.318	0.130	0.079	1.062	0.980	0.580	1.770	-1.475	0.240	-0.0090	0.0100	-0.93	0.388	14.829
10/17/2013	1569	0917-173_10_15_1279_11_106	1	2.119	1.389	-0.019	0.089	1.184	0.980	0.390	1.780	-0.730	0.288	-0.0090	0.0100	-0.74	0.378	15.445
10/17/2013	1570	0917-173_10_15_1280_11_107	1	0.219	1.406	-0.029	0.089	1.234	0.980	0.390	1.780	-0.620	0.288	-0.0090	0.0100	-0.84	0.388	15.677
10/17/2013	1571	0917-173_10_15_1281_11_108	1	0.327	1.389	-0.051	0.089	0.990	0.980	0.480	1.784	-0.741	0.283	-0.0090	0.0100	-0.78	0.368	15.727
10/17/2013	1572	0917-173_10_15_1282_11_109	1	0.640	1.284	-0.079	0.094	1.005	0.970	0.570	1.788	-0.789	0.288	-0.0090	0.0100	-0.87	0.368	16.449
10/17/2013	1573	0917-173_10_15_1283_11_110	1	0.370	1.385	-0.076	0.098	0.986	0.970	0.484	1.784	-0.789	0.288	-0.0090	0.0100	-0.84	0.398	15.409
10/17/2013	1574	0917-173_10_15_1284_11_111	1	0.466	1.286	0.008	0.087	1.028	0.980	0.490	1.787							

Date	Method	Filename	Label 1-Analyte		Label 2-Analyte		Label 3-Analyte/Spile		Label 4-Analyte		Label 5-Analyte		Label 6-Analyte		Label 7-Analyte		Solvent	
			DF	Acrofitin (ppm)	SEC (ppm)	Formaldehyde (ppm)	SEC (ppm)	Methanol (ppm)	SEC (ppm)	Phenol (ppm)	SEC (ppm)	Propionaldehyde (ppm)	SEC (ppm)	Diethyl ether	Diethyl ether	Diethyl ether		Diethyl ether
10/15/2013 15:48	0917-173	10_15_1544_18_432	1	3.8550	1.115	0.120	0.084	0.063	0.7900	0.371	1.884	2.48	0.251	0.00000	0.00300	-0.89	0.560	15.4529
10/15/2013 15:49	0917-173	10_15_1549_18_370	1	1.000	3.709	-0.219	0.017	0.024	0.8780	0.274	1.884	-0.274	0.249	0.00200	0.00300	-0.61	0.371	15.6186
10/15/2013 15:50	0917-173	10_15_1550_18_370	1	3.171	3.121	-0.012	0.081	0.029	0.7880	0.872	1.667	-2.375	0.346	-0.00000	0.00300	-0.23	0.366	16.296
10/15/2013 15:51	0917-173	10_15_1551_18_370	1	2.254	1.151	-0.019	0.085	0.068	0.7970	0.498	1.651	-2.44	0.245	-0.00000	0.00300	-0.73	0.369	15.0711
10/15/2013 15:52	0917-173	10_15_1552_18_370	1	3.51	3.174	0.211	0.063	0.050	0.865	0.249	1.899	-0.359	0.168	-0.00000	0.00300	0.026	0.380	16.027
10/15/2013 15:53	0917-173	10_15_1553_18_370	1	4.073	1.053	0.004	0.062	0.050	0.860	0.590	1.294	-0.002	0.101	-0.00100	0.00300	0.114	0.334	16.827
10/15/2013 15:54	0917-173	10_15_1554_18_370	1	1.600	1.189	0.047	0.060	-0.050	0.890	0.286	1.860	-0.181	0.107	-0.00000	0.00300	0.735	0.357	16.023
10/15/2013 15:55	0917-173	10_15_1555_18_370	1	2.440	1.139	0.152	0.063	0.020	0.890	0.120	1.801	-0.133	0.099	-0.00100	0.00300	0.518	0.335	16.503
10/15/2013 15:56	0917-173	10_15_1556_18_370	1	0.885	1.179	-0.002	0.063	0.020	0.890	0.650	1.303	-0.057	0.107	-0.00000	0.00300	-0.427	0.333	16.524
10/15/2013 15:57	0917-173	10_15_1557_18_370	1	1.600	1.189	0.047	0.060	-0.050	0.890	0.286	1.860	-0.181	0.107	-0.00000	0.00300	0.368	0.353	15.542
10/15/2013 15:58	0917-173	10_15_1558_18_370	1	0.885	1.179	-0.002	0.063	0.020	0.890	0.650	1.303	-0.057	0.107	-0.00000	0.00300	-0.427	0.333	16.524
10/15/2013 15:59	0917-173	10_15_1559_18_370	1	2.440	1.139	0.152	0.063	0.020	0.890	0.120	1.801	-0.133	0.099	-0.00100	0.00300	0.518	0.335	16.503
10/15/2013 16:00	0917-173	10_15_1600_18_370	1	1.600	1.189	0.047	0.060	-0.050	0.890	0.286	1.860	-0.181	0.107	-0.00000	0.00300	0.735	0.357	16.023
10/15/2013 16:01	0917-173	10_15_1601_18_370	1	1.954	1.128	0.013	0.062	-0.008	0.890	0.990	1.802	-0.017	0.103	-0.00100	0.00300	0.114	0.334	16.827
10/15/2013 16:02	0917-173	10_15_1602_18_370	1	1.109	1.180	0.041	0.064	0.033	0.900	0.400	1.740	-0.001	0.103	-0.00100	0.00300	-0.74	0.318	16.52
10/15/2013 16:03	0917-173	10_15_1603_18_370	1	3.508	1.128	0.040	0.062	-0.008	0.900	0.600	1.740	-0.013	0.103	-0.00100	0.00300	-0.99	0.319	16.454
10/15/2013 16:04	0917-173	10_15_1604_18_370	1	1.4030	1.127	0.051	0.063	0.010	0.970	0.830	1.101	-0.095	0.103	-0.00100	0.00300	0.345	0.316	16.988
10/15/2013 16:05	0917-173	10_15_1605_18_370	1	2.0850	1.137	0.058	0.061	0.020	0.980	0.456	1.801	-0.028	0.103	-0.00100	0.00300	-0.863	0.348	16.849
10/15/2013 16:06	0917-173	10_15_1606_18_370	1	2.833	1.139	0.064	0.062	-0.052	0.990	0.540	1.923	0.033	0.103	-0.00000	0.00300	-1.018	0.339	16.87
10/15/2013 16:07	0917-173	10_15_1607_18_370	1	1.523	1.159	0.044	0.062	-0.063	0.980	0.770	1.130	-0.006	0.104	-0.00000	0.00300	-0.23	0.248	16.988
10/15/2013 16:08	0917-173	10_15_1608_18_370	1	1.9750	2.233	0.069	0.064	0.012	0.970	0.823	1.310	-0.049	0.107	-0.00000	0.00300	0.017	0.358	16.919
10/15/2013 16:09	0917-173	10_15_1609_18_370	1	4.113	1.013	0.170	0.061	-0.030	0.950	0.710	1.985	-0.020	0.099	-0.00100	0.00300	-0.151	0.363	16.451
10/15/2013 16:10	0917-173	10_15_1610_18_370	1	3.677	1.094	0.056	0.061	-0.010	0.970	0.616	1.304	-0.050	0.107	-0.00100	0.00300	-0.517	0.332	16.938
10/15/2013 16:11	0917-173	10_15_1611_18_370	1	1.489	1.186	0.045	0.065	0.060	0.980	0.600	1.740	-0.000	0.103	-0.00100	0.00300	-0.299	0.343	16.376
10/15/2013 16:12	0917-173	10_15_1612_18_370	1	1.8500	1.247	0.020	0.064	-0.030	0.980	0.593	1.131	-0.111	0.107	-0.00100	0.00300	0.2290	0.368	16.659
10/15/2013 16:13	0917-173	10_15_1613_18_370	1	4.380	1.092	0.068	0.062	-0.030	0.980	0.616	1.324	-0.024	0.103	-0.00100	0.00300	-0.670	0.359	13.132
10/15/2013 16:14	0917-173	10_15_1614_18_370	1	1.5	1.5	0.143	0.090	0.044	1.48	-0.223	1.020	0.074	0.143	0.056	0.398	0.193	0.449	-1.839
10/15/2013 16:15	0917-173	10_15_1615_18_370	1	1.3	1.5	0.038	0.082	-0.43	1.57	0.073	1.030	0.113	0.107	0.058	0.134	0.654	-1.959	
10/15/2013 16:16	0917-173	10_15_1616_18_370	1	3.2	1.5	0.010	0.091	-0.44	1.41	0.090	1.101	-0.058	0.153	0.617	0.147	0.886	0.442	1.03
10/15/2013 16:17	0917-173	10_15_1617_18_370	1	-1.8	1.5	0.015	0.081	-0.44	1.83	-0.090	0.940	-0.055	0.153	0.054	0.485	-0.338	0.444	-2.007
10/15/2013 16:18	0917-173	10_15_1618_18_370	1	9.3	1.5	0.3	0.1	0.283	1.68	0.040	0.940	0.139	0.134	0.019	0.149	0.419	-0.172	
10/15/2013 16:19	0917-173	10_15_1619_18_370	1	0.4	1.4	0.028	0.081	-0.44	1.83	-0.090	0.970	-0.150	0.131	0.090	0.555	-0.321	0.443	-2.007
10/15/2013 16:20	0917-173	10_15_1620_18_370	1	5.8	1.4	-0.031	0.080	-0.47	1.66	-0.113	0.970	-0.249	0.133	0.063	0.663	0.194	0.442	-2.007
10/15/2013 16:21	0917-173	10_15_1621_18_370	1	-0.4	1.6	0.270	0.086	-0.52	1.96	0.089	0.910	0.328	0.138	0.064	0.661	0.443	-0.208	
10/15/2013 16:22	0917-173	10_15_1622_18_370	1	4	1.6	0.044	0.086	-0.48	1.96	0.089	0.910	0.328	0.138	0.064	0.661	0.443	-0.208	
10/15/2013 16:23	0917-173	10_15_1623_18_370	1	-1.2	1.4	0.150	0.082	-0.48	1.96	0.089	0.910	0.328	0.138	0.064	0.661	0.443	-0.208	
10/15/2013 16:24	0917-173	10_15_1624_18_370	1	-1.8	1.5	0.235	0.084	-0.42	1.96	-0.070	0.990	0.102	0.145	0.090	0.659	-0.89	0.472	2.085
10/15/2013 16:25	0917-173	10_15_1625_18_370	1	-1.6	1.5	0.081	0.083	-0.45	1.96	0.089	0.910	0.328	0.138	0.064	0.661	0.443	-0.208	
10/15/2013 16:26	0917-173	10_15_1626_18_370	1	-0.7	1.4	-0.117	0.088	-0.54	1.96	-0.200	0.990	0.104	0.137	0.054	0.659	0.443	2.085	
10/15/2013 16:27	0917-173	10_15_1627_18_370	1	-1.6	1.4	0.012	0.087	-0.54	1.96	-0.220	0.990	0.104	0.137	0.054	0.659	0.443	2.085	
10/15/2013 16:28	0917-173	10_15_1628_18_370	1	-4.1	1.5	0.065	0.086	-0.48	1.96	-0.090	0.990	0.104	0.137	0.054	0.659	0.443	2.085	
10/15/2013 16:29	0917-173	10_15_1629_18_370	1	-3.01	1.628	0.025	0.074	-0.49	1.96	-0.203	0.990	0.104	0.137	0.054	0.659	0.443	2.085	
10/15/2013 16:30	0917-173	10_15_1630_18_370	1	-4.04	1.978	0.061	0.076	-0.36	1.83	0.183	0.122	-1.24	0.25	-0.019	0.060	-0.4	0.60	106.949
10/15/2013 16:31	0917-173	10_15_1631_18_370	1	-4.58	1.560	0.060	0.076	-0.49	1.83	0.183	0.122	-1.24	0.25	-0.019	0.060	-0.4	0.60	119.948
10/15/2013 16:32	0917-173	10_15_1632_18_370	1	-1.00	1.705	0.039	0.101	-0.42	1.83	0.183	0.122	-1.24	0.25	-0.019	0.060	-0.4	0.60	119.948
10/15/2013 16:33	0917-173	10_15_1633_18_370	1	-3.15	1.604	0.049	0.108	-0.34	1.87	-0.12	1.22	-1.27	0.75	-0.019	0.060	-0.4	0.60	119.948
10/15/2013 16:34	0917-173	10_15_1634_18_370	1	-4.89	1.500	0.759	0.235	0.41	1.70	-0.235	2.24	-1.77	0.81	-0.019	0.060	-0.4	0.60	119.948
10/15/2013 16:35	0917-173	10_15_1635_18_370	1	-6.52	1.599	0.418	0.214	0.31	1.70	-0.235	2.24	-1.77	0.81	-0.019	0.060	-0.4	0.60	119.948
10/15/2013 16:36	0917-173	10_15_1636_18_370	1	-2.71	1.654	0.797	0.215	0.31	1.70	-0.235	2.24	-1.77	0.81	-0.019	0.060	-0.4	0.60	119.948
10/15/2013 16:37	0917-173	10_15_1637_18_370	1	-1.88	1.616	0.317	0.218	0.41	1.70	-0.235	2.24	-1.77	0.81	-0.019	0.060	-0.4	0.60	119.948
10/15/2013 16:38	0917-173	10_15_1638_18_370	1	-4.29	1.696	0.842	0.218	0.39	1.70	-0.235	2.24	-1.77	0.81	-0.019	0.060	-0.4	0.60	119.948
10/15/201																		

Location, Date, #, Start/Stop, Instrument

File	Method	Filename	DV	Aeroiden (ppm)	SEC (ppm)	Formaldehyde (ppm)	SEC (ppm)	Method	SPICE	SEC (ppm)	Phenol (ppm)	SEC (ppm)	Propionaldehyde (ppm)	SEC (ppm)	Sulfur	n-Nonane (ppm)	SEC (ppm)	Acetaldehyde (ppm)	SEC (ppm)	Paraffins (ppm)
10/18/2013 1850	0017-173	10_18_1850_20_197	1	0.00	1.790	0.037	0.030	3.35	0.370	-0.222	2.20	-1.92	0.37	-0.000	0.0000	-0.10	0.87	0.000	0.000	0.000
10/17/2013 1850	0017-173	10_17_1850_20_207	1	0.30	1.520	0.020	0.025	3.24	0.171	-0.218	2.24	-1.78	0.90	-0.000	0.0000	-0.3	0.87	0.000	0.000	0.000
10/17/2013 1850	0017-173	10_17_1850_21_117	1	-0.05	1.540	0.000	0.020	3.27	0.174	-0.410	2.19	-0.82	0.91	-0.000	0.0000	-0.5	0.87	0.000	0.000	0.000
10/17/2013 1850	0017-173	10_17_1850_22_447	1	0.00	1.610	0.008	0.025	3.23	0.175	-0.232	2.20	-2.01	0.91	-0.000	0.0000	-0.4	0.87	0.000	0.000	0.000
10/15/2013 1850	0017-173	10_15_1850_21_207	1	-0.20	1.603	0.000	0.025	3.26	0.175	-0.265	2.18	-2.44	0.92	-0.000	0.0000	-0.4	0.87	0.000	0.000	0.000
10/18/2013 1850	0017-173	10_18_1850_20_207	1	-0.40	1.603	0.000	0.025	3.23	0.172	-0.500	2.20	-2.01	0.92	-0.000	0.0000	-0.3	0.87	0.000	0.000	0.000
10/15/2013 1850	0017-173	10_15_1850_21_247	1	-0.40	1.615	0.000	0.025	3.24	0.174	-0.413	2.20	-2.08	0.92	-0.000	0.0000	-0.4	0.87	0.000	0.000	0.000
10/15/2013 1850	0017-173	10_15_1850_22_427	1	-0.70	1.645	0.000	0.025	3.26	0.175	-0.465	2.19	-2.01	0.92	-0.000	0.0000	-0.4	0.87	0.000	0.000	0.000
10/15/2013 1850	0017-173	10_15_1850_23_347	1	-0.40	1.596	0.001	0.024	3.22	0.178	-0.134	2.20	-2.02	0.93	-0.000	0.0000	-0.4	0.87	0.000	0.000	0.000
10/17/2013 1850	0017-173	10_17_1850_24_087	1	-0.45	1.705	0.001	0.028	3.30	0.180	-0.374	2.18	-2.72	0.92	-0.000	0.0000	-0.5	0.87	0.000	0.000	0.000
10/15/2013 1850	0017-173	10_15_1850_27_578	1	-1.24	1.589	0.077	0.042	3.20	0.181	-0.230	2.21	-2.52	0.92	-0.000	0.0000	-0.3	0.87	0.000	0.000	0.000
10/15/2013 1850	0017-173	10_15_1850_28_308	1	-0.32	1.603	0.004	0.024	3.22	0.177	-0.459	2.18	-2.51	0.92	-0.000	0.0000	-0.3	0.87	0.000	0.000	0.000
10/15/2013 1850	0017-173	10_15_1850_29_348	1	-1.00	1.632	0.076	0.039	3.22	0.179	-0.339	2.20	-2.34	0.90	-0.000	0.0000	-0.4	0.87	0.000	0.000	0.000
10/15/2013 1850	0017-173	10_15_1850_29_681	1	-1.16	1.673	0.090	0.025	3.24	0.175	-0.413	2.20	-2.08	0.92	-0.000	0.0000	-0.4	0.87	0.000	0.000	0.000
10/15/2013 1850	0017-173	10_15_1850_30_858	1	-1.78	1.604	0.097	0.025	3.24	0.175	-0.413	2.20	-2.08	0.92	-0.000	0.0000	-0.4	0.87	0.000	0.000	0.000
10/15/2013 1850	0017-173	10_15_1850_31_284	1	-0.42	1.561	0.007	0.022	3.14	0.171	-0.234	2.20	-2.01	0.98	-0.000	0.0000	-0.4	0.87	0.000	0.000	0.000
10/15/2013 1850	0017-173	10_15_1850_31_348	1	-1.80	1.577	0.049	0.023	3.10	0.169	-0.411	2.20	-2.10	0.79	-0.000	0.0000	-0.5	0.87	0.000	0.000	0.000
10/15/2013 1850	0017-173	10_15_1850_31_378	1	-0.48	1.570	0.012	0.018	3.28	0.189	-0.465	2.20	-1.81	0.83	-0.000	0.0000	-0.5	0.87	0.000	0.000	0.000
10/15/2013 1850	0017-173	10_15_1850_31_388	1	-0.28	1.544	0.010	0.022	3.21	0.188	-0.285	2.20	-1.70	0.84	-0.000	0.0000	-0.5	0.87	0.000	0.000	0.000
10/15/2013 1850	0017-173	10_15_1850_34_348	1	-0.04	1.641	0.025	0.024	3.31	0.170	-0.079	2.22	-1.59	0.85	-0.000	0.0000	-0.3	0.87	0.000	0.000	0.000
10/15/2013 1850	0017-173	10_15_1850_34_358	1	-0.04	1.641	0.025	0.024	3.31	0.170	-0.079	2.22	-1.59	0.85	-0.000	0.0000	-0.3	0.87	0.000	0.000	0.000
10/15/2013 1850	0017-173	10_15_1850_34_378	1	-0.00	1.620	0.005	0.024	3.15	0.170	-0.247	2.20	-1.33	0.84	-0.000	0.0000	-0.4	0.87	0.000	0.000	0.000
10/15/2013 1850	0017-173	10_15_1850_36_580	1	-0.70	1.660	0.077	0.023	3.10	0.168	-0.209	2.20	-1.83	0.82	-0.000	0.0000	-0.5	0.87	0.000	0.000	0.000
10/15/2013 1850	0017-173	10_15_1850_37_130	1	-1.21	1.547	0.114	0.027	3.09	0.165	-0.175	2.19	-1.54	0.82	-0.000	0.0000	-0.4	0.87	0.000	0.000	0.000
10/15/2013 1850	0017-173	10_15_1850_38_130	1	-1.50	1.619	0.098	0.014	3.03	0.162	-0.455	2.19	-0.91	0.80	-0.000	0.0000	-0.4	0.87	0.000	0.000	0.000
10/15/2013 1850	0017-173	10_15_1850_38_300	1	-0.82	1.790	0.025	0.012	3.00	0.164	-0.203	2.19	-1.50	0.80	-0.000	0.0000	-0.4	0.87	0.000	0.000	0.000
10/15/2013 1850	0017-173	10_15_1850_38_390	1	-0.82	1.790	0.025	0.012	3.00	0.164	-0.203	2.19	-1.50	0.80	-0.000	0.0000	-0.4	0.87	0.000	0.000	0.000
10/15/2013 1850	0017-173	10_15_1850_40_200	1	-0.98	1.686	0.049	0.017	3.00	0.164	-0.049	2.19	-1.18	0.80	-0.000	0.0000	-0.3	0.87	0.000	0.000	0.000
10/15/2013 1850	0017-173	10_15_1850_40_200	1	-0.98	1.686	0.049	0.017	3.00	0.164	-0.049	2.19	-1.18	0.80	-0.000	0.0000	-0.3	0.87	0.000	0.000	0.000
10/15/2013 1850	0017-173	10_15_1850_41_000	1	-0.98	1.686	0.049	0.017	3.00	0.164	-0.049	2.19	-1.18	0.80	-0.000	0.0000	-0.3	0.87	0.000	0.000	0.000
10/15/2013 1850	0017-173	10_15_1850_41_000	1	-0.98	1.686	0.049	0.017	3.00	0.164	-0.049	2.19	-1.18	0.80	-0.000	0.0000	-0.3	0.87	0.000	0.000	0.000
10/15/2013 1850	0017-173	10_15_1850_41_000	1	-0.98	1.686	0.049	0.017	3.00	0.164	-0.049	2.19	-1.18	0.80	-0.000	0.0000	-0.3	0.87	0.000	0.000	0.000
10/15/2013 1850	0017-173	10_15_1850_41_000	1	-0.98	1.686	0.049	0.017	3.00	0.164	-0.049	2.19	-1.18	0.80	-0.000	0.0000	-0.3	0.87	0.000	0.000	0.000
10/15/2013 1850	0017-173	10_15_1850_41_000	1	-0.98	1.686	0.049	0.017	3.00	0.164	-0.049	2.19	-1.18	0.80	-0.000	0.0000	-0.3	0.87	0.000	0.000	0.000
10/15/2013 1850	0017-173	10_15_1850_41_000	1	-0.98	1.686	0.049	0.017	3.00	0.164	-0.049	2.19	-1.18	0.80	-0.000	0.0000	-0.3	0.87	0.000	0.000	0.000
10/15/2013 1850	0017-173	10_15_1850_41_000	1	-0.98	1.686	0.049	0.017	3.00	0.164	-0.049	2.19	-1.18	0.80	-0.000	0.0000	-0.3	0.87	0.000	0.000	0.000
10/15/2013 1850	0017-173	10_15_1850_41_000	1	-0.98	1.686	0.049	0.017	3.00	0.164	-0.049	2.19	-1.18	0.80	-0.000	0.0000	-0.3	0.87	0.000	0.000	0.000
10/15/2013 1850	0017-173	10_15_1850_41_000	1	-0.98	1.686	0.049	0.017	3.00	0.164	-0.049	2.19	-1.18	0.80	-0.000	0.0000	-0.3	0.87	0.000	0.000	0.000
10/15/2013 1850	0017-173	10_15_1850_41_000	1	-0.98	1.686	0.049	0.017	3.00	0.164	-0.049	2.19	-1.18	0.80	-0.000	0.0000	-0.3	0.87	0.000	0.000	0.000
10/15/2013 1850	0017-173	10_15_1850_41_000	1	-0.98	1.686	0.049	0.017	3.00	0.164	-0.049	2.19	-1.18	0.80	-0.000	0.0000	-0.3	0.87	0.000	0.000	0.000
10/15/2013 1850	0017-173	10_15_1850_41_000	1	-0.98	1.686	0.049	0.017	3.00	0.164	-0.049	2.19	-1.18	0.80	-0.000	0.0000	-0.3	0.87	0.000	0.000	0.000
10/15/2013 1850	0017-173	10_15_1850_41_000	1	-0.98	1.686	0.049	0.017	3.00	0.164	-0.049	2.19	-1.18	0.80	-0.000	0.0000	-0.3	0.87	0.000	0.000	0.000
10/15/2013 1850	0017-173	10_15_1850_41_000	1	-0.98	1.686	0.049	0.017	3.00	0.164	-0.049	2.19	-1.18	0.80	-0.000	0.0000	-0.3	0.87	0.000	0.000	0.000
10/15/2013 1850	0017-173	10_15_1850_41_000	1	-0.98	1.686	0.049	0.017	3.00	0.164	-0.049	2.19	-1.18	0.80	-0.000	0.0000	-0.3	0.87	0.000	0.000	0.000
10/15/2013 1850	0017-173	10_15_1850_41_000	1	-0.98	1.686	0.049	0.017	3.00	0.164	-0.049	2.19	-1.18	0.80	-0.000	0.0000	-0.3	0.87	0.000	0.000	0.000
10/15/2013 1850	0017-173	10_15_1850_41_000	1	-0.98	1.686	0.049	0.017	3.00	0.164	-0.049	2.19	-1.18	0.80	-0.000	0.0000	-0.3	0.87	0.000	0.000	0.000
10/15/2013 1850	0017-173	10_15_1850_41_000	1	-0.98	1.686	0.049	0.017	3.00	0.164	-0.049	2.19	-1.18	0.80	-0.000	0.0000	-0.3	0.87	0.000	0.000	0.000
10/15/2013 1850	0017-173	10_15_1850_41_000	1	-0.98	1.686	0.049	0.017	3.00	0.164	-0.049	2.19	-1.18	0.80	-0.000	0.0000	-0.3	0.87	0.000	0.000	0.000
10/15/2013 1850	0017-173	10_15_1850_41_000	1	-0.98	1.686	0.049	0.017	3.00	0.164	-0.049	2.19	-1.18	0.80	-0.000	0.0000	-0.3	0.87	0.000	0.000	0.000
10/15/2013 1850	0017-173	10_15_1850_41_000	1	-0.98	1.686	0.049	0.017	3.00	0.164	-0.049	2.19	-1.18	0.80	-0.000	0.0000	-0.3	0.87	0.000	0.000	0.000
10/15/2013 1850	0017-173	10_15_1850_41_000	1	-0.98	1.686	0.049	0.017	3.00	0.164	-0.049	2.19	-1.18	0.80	-0.000	0.0000	-0.3	0.87	0.000	0.000	0.000
10/15/2013 1850	0017-173	10_15_1850_41_000	1	-0.98	1.686	0.049	0.017	3.00	0.164	-0.049	2.19	-1.18	0.80	-0.000	0.0000	-0.3	0.87	0.000	0.000	0.000
10/15/2013 1850	0017-173	10_15_1850_41_000	1	-0.98	1.686	0.049	0.017	3.00	0.164	-0.049	2.19	-1.18	0.80	-0.000	0.0000	-0.3	0.87	0.000	0.000	0.000
10/15/2013 1850	001																			

Location Doc. # Start/Resp Instrument

Label

1-Analyte

2-Analyte

3-Analyte

4-Analyte

5-Analyte

6-Analyte

7-Analyte

8-Analyte

9-Analyte

10-Analyte

11-Analyte

12-Analyte

13-Analyte

14-Analyte

15-Analyte

16-Analyte

17-Analyte

18-Analyte

Date	Method	Filename	DP	AcqRef	SEC (min)	Formaldehyde (ppm)	SEC (ppm)	Methanol (ppm)	SEC (ppm)	Phenol (ppm)	SEC (ppm)	Propionaldehyde (ppm)	SEC (ppm)	Tracer	SEC (ppm)	acetaldhyde (ppm)	SEC (ppm)	pinene (ppm)
10/16/2013 8:30	0917-173	M03_10_16_0835_39_800	1	0.4	1.5	0.021	0.023	-0.49	1.83	0.0510	0.0990	-0.377	0.134	0.068	0.652	0.35	0.449	1.037
10/16/2013 8:36	0917-173	M03_10_16_0845_39_800	1	2.2	1.5	0.038	0.040	-0.33	1.84	0.0560	0.036	-0.109	0.682	0.066	0.588	0.337	0.442	1.068
10/16/2013 8:36	0917-173	M03_10_16_0835_39_800	1	0.6	1.3	0.028	0.029	-0.49	1.85	0.057	0.010	-0.190	0.639	0.066	0.582	0.353	0.449	1.037
10/16/2013 8:36	0917-173	M03_10_16_0835_39_800	1	0.8	1.4	0.032	0.033	-0.55	1.85	0.0590	0.090	-0.270	0.131	0.069	0.681	0.353	0.449	1.037
10/16/2013 8:37	0917-173	M03_10_16_0837_39_800	1	1.7	1.5	0.050	0.079	-0.66	1.85	0.1062	0.324	-0.152	0.324	0.070	0.657	0.353	0.449	1.037
10/16/2013 8:37	0917-173	M03_10_16_0837_39_800	1	2.1	1.4	0.0750	0.075	-0.53	1.86	0.0100	0.060	0.034	0.322	0.064	0.682	0.3200	0.411	1.042
10/16/2013 8:37	0917-173	M03_10_16_0837_39_800	1	0.6	1.5	0.001	0.088	-0.62	1.85	0.0700	0.090	-0.0830	0.141	0.073	0.660	0.347	0.476	1.043
10/16/2013 8:38	0917-173	M03_10_16_0839_39_800	1	-2.2	1.5	-0.190	0.081	-0.52	1.66	0.0650	0.0910	-0.170	0.128	0.075	0.661	0.327	0.472	-2.03
10/16/2013 8:38	0917-173	M03_10_16_0839_39_800	1	2.4	1.5	0.112	0.088	-0.50	1.65	0.1300	0.090	-0.142	0.141	0.073	0.659	0.347	0.475	-2.048
10/16/2013 8:38	0917-173	M03_10_16_0839_39_800	1	0.1	1.7	0.0710	0.076	-0.61	1.66	-0.1300	0.100	0.263	0.133	0.074	0.664	0.296	0.458	-2.049
10/16/2013 8:39	0917-173	M03_10_16_0840_39_800	1	2.2	1.4	0.011	0.079	-0.44	1.66	0.0650	0.1010	0.000	0.123	0.071	0.661	0.310	0.474	-2.059
10/16/2013 8:39	0917-173	M03_10_16_0840_39_800	1	2.4	1.5	0.055	0.064	-0.55	1.66	0.111	0.060	0.063	0.137	0.064	0.663	0.340	0.473	-2.060
10/16/2013 8:40	0917-173	M03_10_16_0840_39_800	1	-2.4	1.5	-0.020	0.082	-0.49	1.65	0.142	0.100	0.067	0.134	0.064	0.664	0.340	0.473	-2.060
10/16/2013 8:40	0917-173	M03_10_16_0840_39_800	1	0.5	1.6	0.061	0.081	-0.49	1.65	-0.1410	0.100	-0.190	0.135	0.061	0.665	0.340	0.473	-2.060
10/16/2013 10:18	0917-173	M03_10_16_1033_05_300	1	0.821	1.281	0.020	0.074	0.274	0.8010	0.419	0.158	-1.208	0.149	-0.0200	0.0500	0.40	0.366	16.446
10/16/2013 10:25	0917-173	M03_10_16_1034_05_300	1	0.08	1.283	0.080	0.067	0.984	0.990	0.338	1.744	-1.330	0.141	-0.0300	0.0900	-1.31	0.366	15.767
10/16/2013 10:25	0917-173	M03_10_16_1034_05_300	1	1.13	1.27	-0.085	0.079	0.857	0.990	0.338	1.744	-1.330	0.141	-0.0300	0.0900	-0.77	0.366	15.767
10/16/2013 10:26	0917-173	M03_10_16_1034_05_300	1	-1.58	1.284	-0.041	0.078	0.724	0.940	0.544	1.748	-1.808	0.188	-0.0900	0.0500	-0.71	0.379	13.836
10/16/2013 10:27	0917-173	M03_10_16_1037_05_300	1	-0.24	1.219	-0.184	0.077	0.758	0.900	0.536	1.750	-1.797	0.181	-0.0300	0.0900	-0.99	0.332	14.445
10/16/2013 10:28	0917-173	M03_10_16_1038_05_300	1	2.970	1.239	-0.038	0.083	0.876	0.810	0.652	1.759	-2.054	0.263	-0.0800	0.0900	-1.32	0.389	15.209
10/16/2013 10:28	0917-173	M03_10_16_1038_05_300	1	2.98	1.267	-0.093	0.079	0.815	0.810	0.583	1.757	-1.73	0.184	-0.0300	0.0900	-0.99	0.332	14.445
10/16/2013 11:00	0917-173	M03_10_16_1100_05_300	1	-0.72	1.41	-0.054	0.077	0.886	0.970	0.600	1.751	-1.973	0.177	-0.0600	0.0900	-1.49	0.390	13.019
10/16/2013 11:01	0917-173	M03_10_16_1100_05_300	1	-0.283	1.259	-0.144	0.076	0.879	0.920	0.581	1.752	-1.823	0.181	-0.0300	0.0900	-1.07	0.378	15.123
10/16/2013 11:01	0917-173	M03_10_16_1100_05_300	1	-1.82	1.267	-0.180	0.080	0.787	0.900	0.558	1.728	-2.02	0.261	-0.0100	0.0900	-1.39	0.381	11.179
10/16/2013 11:01	0917-173	M03_10_16_1100_05_300	1	1.50	1.181	0.099	0.076	0.823	0.970	0.592	1.738	-1.984	0.182	-0.0300	0.0900	-0.88	0.396	15.516
10/16/2013 11:01	0917-173	M03_10_16_1100_05_300	1	0.46	1.270	0.140	0.078	0.903	0.970	0.549	1.739	-1.814	0.184	-0.0300	0.0900	-0.83	0.379	18.145
10/16/2013 11:01	0917-173	M03_10_16_1100_05_300	1	-1.58	1.284	-0.041	0.077	0.823	0.970	0.549	1.739	-1.814	0.184	-0.0300	0.0900	-0.83	0.379	18.145
10/16/2013 11:01	0917-173	M03_10_16_1100_05_300	1	-0.84	1.280	-0.108	0.077	0.823	0.970	0.549	1.739	-1.814	0.184	-0.0300	0.0900	-0.83	0.379	18.145
10/16/2013 11:01	0917-173	M03_10_16_1100_05_300	1	1.919	1.296	0.020	0.081	0.771	0.970	0.558	1.728	-1.997	0.189	-0.0300	0.0900	-0.99	0.382	14.445
10/16/2013 11:01	0917-173	M03_10_16_1100_05_300	1	-1.48	1.280	-0.068	0.078	0.824	0.970	0.548	1.729	-1.814	0.184	-0.0300	0.0900	-0.99	0.382	14.445
10/16/2013 11:01	0917-173	M03_10_16_1100_05_300	1	-0.40	1.405	-0.080	0.078	0.787	0.910	0.502	1.727	-1.818	0.182	-0.0300	0.0900	-0.99	0.382	14.445
10/16/2013 11:01	0917-173	M03_10_16_1100_05_300	1	-0.47	1.383	-0.085	0.079	0.776	0.970	0.441	1.747	-1.618	0.186	-0.0300	0.0900	-1.08	0.386	15.161
10/16/2013 11:01	0917-173	M03_10_16_1100_05_300	1	-6.15	1.269	-0.229	0.076	0.773	0.910	0.461	1.747	-1.809	0.189	-0.0300	0.0900	-1.08	0.386	15.161
10/16/2013 11:11	0917-173	M03_10_16_1111_05_300	1	0.01	1.182	0.090	0.080	0.761	0.920	0.479	1.773	-1.790	0.188	-0.0300	0.0900	-0.99	0.374	15.009
10/16/2013 11:11	0917-173	M03_10_16_1111_05_300	1	1.54	1.235	0.000	0.081	0.811	0.930	0.509	1.777	-1.805	0.197	-0.0100	0.0900	-0.61	0.374	15.712
10/16/2013 11:11	0917-173	M03_10_16_1111_05_300	1	-1.18	1.228	-0.079	0.079	0.823	0.970	0.549	1.739	-1.814	0.184	-0.0300	0.0900	-0.83	0.379	18.145
10/16/2013 11:11	0917-173	M03_10_16_1111_05_300	1	0.75	1.314	-0.141	0.081	0.774	0.930	0.509	1.773	-1.805	0.197	-0.0100	0.0900	-0.61	0.374	15.712
10/16/2013 11:11	0917-173	M03_10_16_1111_05_300	1	1.89	1.181	-0.070	0.076	0.824	0.930	0.489	1.782	-1.994	0.177	-0.0700	0.0500	-0.78	0.390	17.012
10/16/2013 11:11	0917-173	M03_10_16_1111_05_300	1	-0.46	1.246	-0.060	0.080	0.686	0.900	0.468	1.786	-1.829	0.189	-0.0700	0.0500	-0.78	0.390	17.012
10/16/2013 11:11	0917-173	M03_10_16_1111_05_300	1	-1.24	1.351	-0.094	0.080	0.752	0.910	0.510	1.777	-1.883	0.181	-0.0700	0.0500	-0.87	0.368	13.111
10/16/2013 11:01	0917-173	M03_10_16_1100_05_300	1	-0.85	1.319	-0.109	0.075	0.797	0.930	0.388	1.786	-1.957	0.194	-0.0300	0.0900	-1.08	0.382	14.445
10/16/2013 11:01	0917-173	M03_10_16_1100_05_300	1	-1.89	1.258	-0.179	0.079	0.808	0.900	0.558	1.728	-2.02	0.261	-0.0700	0.0500	-1.08	0.382	14.445
10/16/2013 11:01	0917-173	M03_10_16_1100_05_300	1	0.29	1.219	0.082	0.079	0.770	0.890	0.488	1.808	-2.108	0.208	-0.0300	0.0900	-0.89	0.396	15.516
10/16/2013 11:01	0917-173	M03_10_16_1100_05_300	1	-2.32	1.349	-0.088	0.079	0.807	0.900	0.493	1.808	-2.052	0.208	-0.0700	0.0500	-1.08	0.382	14.445
10/16/2013 11:01	0917-173	M03_10_16_1100_05_300	1	-1.18	1.228	-0.079	0.079	0.823	0.970	0.549	1.739	-1.814	0.184	-0.0300	0.0900	-0.83	0.379	18.145
10/16/2013 11:01	0917-173	M03_10_16_1100_05_300	1	-1.26	1.388	-0.103	0.076	0.798	0.910	0.440	1.801	-1.796	0.174	-0.0700	0.0500	-0.89	0.378	15.144
10/16/2013 11:01	0917-173	M03_10_16_1100_05_300	1	-2.98	1.254	-0.086	0.081	0.724	0.970	0.567	1.807	-1.738	0.184	-0.0700	0.0500	-0.89	0.378	15.144
10/16/2013 11:01	0917-173	M03_10_16_1100_05_300	1	-0.79	1.360	-0.072	0.080	0.779	0.970	0.473	1.807	-1.823	0.189	-0.0300	0.0900	-0.89	0.378	15.144
10/16/2013 11:01	0917-173	M03_10_16_1100_05_300	1	-1.81	1.386	-0.080	0.085	0.824	0.880	0.399	1.803	-2.028	0.208	-0.0400	0.0900	-1.41	0.357	15.509
10/16/2013 11:01	0917-173	M03_10_16_1100_05_300	1	1.898	1.245	-0.170	0.080	0.686	0.900	0.468	1.786	-1.829	0.189	-0.0700	0.0500	-0.78	0.390	17.012
10/16/2013 11:01	0917-173	M03_10_16_1100_05_300	1	-1.24	1.351	-0.094	0.080	0.752	0.910	0.510	1.777	-1.883	0.181	-0.0700	0.0500	-0.87	0.368	13.111
10/16/2013 11:01	0917-173	M03_10_16_1100_05_300	1	-0.85	1.319	-0.109	0.075	0.797	0.930	0.388	1.786	-1.957	0.194	-0.0300	0.0900	-1.08	0	

Location Doc. I Start/Stop Instrument Label 1-Analyte Label 2-Analyte Label 3-Analyte Label 4-Analyte Label 5-Analyte Label 6-Analyte Label 7-Analyte Label 8-Analyte

Date	Method	Filename	OF	Airconen (ppm)	SEC (ppm)	Formaldehyde (ppm)	SEC (ppm)	Methane (ppm)	SEC (ppm)	Phenol (ppm)	SEC (ppm)	Propionaldehyde (ppm)	SEC (ppm)	Sulfur_furfuraldehyde (ppm)	SEC (ppm)	Acetaldehyde (ppm)	SEC (ppm)	Other (pp)	
10/16/2013	1309	0917-173_N013_10_16_1309_46_01	1	0.85	0.972	0.693	0.104	-0.0000	0.045	-0.14	0.0950	4.37	0.11	-0.0000	0.0000	1.34	0.403	12.015	
10/16/2013	1310	0917-173_N013_10_16_1310_46_001	1	1.829	0.918	0.1950	0.076	0.0210	0.040	-0.24	0.0850	2.914	0.13	-0.0000	0.0000	-1.75	0.235	10.717	
10/16/2013	1311	0917-173_N013_10_16_1311_46_01	1	1.579	0.855	-0.115	0.051	0.0160	0.046	-0.72	0.0600	2.454	0.08	-0.0000	0.0000	-0.165	0.178	11.111	
10/16/2013	1312	0917-173_N013_10_16_1312_46_002	1	1.130	0.993	-0.349	0.055	0.143	0.090	0.105	0.467	0.709	0.11	0.0000	0.0000	-0.74	0.291	9.937	
10/16/2013	1313	0917-173_N013_10_16_1313_46_712	1	1.816	1.367	-0.210	0.089	1.128	0.0000	0.136	1.572	-0.941	0.28	0.0000	0.0000	-0.5	0.373	46.113	
10/16/2013	1314	0917-173_N013_10_16_1314_46_401	1	0.60	1.234	0.0000	0.094	0.0000	0.290	1.232	1.894	2.991	0.28	-0.0000	0.0000	1.0	0.31	41.081	
10/16/2013	1315	0917-173_N013_10_16_1315_46_150	1	0.281	1.007	-0.026	0.088	1.133	0.0000	0.304	1.873	2.894	0.25	-0.0000	0.0000	0.52	0.383	36.201	
10/16/2013	1317	0917-173_N013_10_16_1317_46_830	1	0.26	1.195	-0.040	0.081	0.975	0.080	0.261	1.837	-2.847	0.23	0.0000	0.0000	-2.57	0.306	23.860	
10/16/2013	1319	0917-173_N013_10_16_1319_46_403	1	-0.147	1.279	0.0110	0.078	0.100	0.000	0.369	2.465	1.513	-1.901	0.11	-0.0000	0.0000	-1.66	0.382	29.517
10/16/2013	1318	0917-173_N013_10_16_1318_46_150	1	0.724	1.164	-0.004	0.098	0.832	0.044	0.349	1.604	-1.813	0.21	-0.0000	0.0000	-1.19	0.381	27.847	
10/16/2013	1320	0917-173_N013_10_16_1320_46_791	1	-0.01	1.176	0.008	0.085	0.895	0.040	0.375	1.904	-2.506	0.22	-0.0000	0.0000	-0.59	0.399	21.253	
10/16/2013	1321	0917-173_N013_10_16_1321_46_791	1	-0.18	1.288	0.000	0.076	0.899	0.000	0.411	1.907	-1.87	0.21	-0.0000	0.0000	-0.45	0.396	27.811	
10/16/2013	1322	0917-173_N013_10_16_1322_46_791	1	-0.14	1.187	-0.0410	0.076	0.883	0.040	0.478	1.811	-1.72	0.19	-0.0000	0.0000	-1.06	0.356	21.9	
10/16/2013	1324	0917-173_N013_10_16_1324_46_290	1	-0.11	1.241	-0.084	0.082	0.967	0.080	0.354	1.817	-3.900	0.24	-0.0000	0.0000	-0.96	0.388	12.991	
10/16/2013	1325	0917-173_N013_10_16_1325_46_110	1	2.88	1.511	-0.970	0.087	1.089	0.095	3.254	1.874	3.79	0.28	-0.0000	0.0000	-1.39	0.364	18.246	
10/16/2013	1326	0917-173_N013_10_16_1326_46_001	1	0.296	1.302	-0.137	0.090	1.137	0.0000	0.353	1.834	-3.185	0.23	-0.0000	0.0000	-0.58	0.373	40.646	
10/16/2013	1327	0917-173_N013_10_16_1327_46_821	1	1.98	1.533	0.030	0.087	1.129	0.000	0.447	1.698	-2.70	0.36	-0.0000	0.0000	-0.80	0.388	18.954	
10/16/2013	1328	0917-173_N013_10_16_1328_46_371	1	0.80	1.189	0.029	0.091	1.179	0.029	0.384	1.966	-2.513	0.28	-0.0000	0.0000	-0.76	0.395	37.77	
10/16/2013	1329	0917-173_N013_10_16_1329_46_161	1	1.52	1.819	0.005	0.093	1.167	0.000	0.380	1.843	-2.840	0.23	-0.0000	0.0000	-0.80	0.386	21.700	
10/16/2013	1330	0917-173_N013_10_16_1330_46_301	1	0.01	1.295	-0.0410	0.081	1.086	0.040	0.388	1.899	-2.982	0.36	-0.0000	0.0000	-0.90	0.395	35.201	
10/16/2013	1331	0917-173_N013_10_16_1331_46_891	1	-1.71	1.810	-0.502	0.089	1.096	0.020	0.333	1.969	-3.4	0.36	-0.0000	0.0000	-0.89	0.408	38.776	
10/16/2013	1332	0917-173_N013_10_16_1332_46_411	1	-0.42	1.362	-0.0940	0.091	1.065	0.095	0.508	1.913	-2.43	0.38	-0.0000	0.0000	-0.97	0.484	18.317	
10/16/2013	1333	0917-173_N013_10_16_1333_46_111	1	-0.56	1.406	-0.1286	0.081	1.027	0.040	0.590	1.905	-2.704	0.27	-0.0000	0.0000	-0.89	0.402	19.319	
10/16/2013	1334	0917-173_N013_10_16_1334_46_181	1	-0.47	1.289	-0.097	0.088	1.066	0.090	0.241	1.896	-2.609	0.28	-0.0000	0.0000	-0.82	0.378	41.090	
10/16/2013	1335	0917-173_N013_10_16_1335_46_701	1	1.86	1.398	0.0000	0.092	1.148	0.040	0.375	1.849	-2.705	0.21	-0.0000	0.0000	-0.85	0.385	27.811	
10/16/2013	1336	0917-173_N013_10_16_1336_46_461	1	-0.60	1.830	-0.104	0.086	1.256	0.080	0.323	1.874	-2.57	0.28	-0.0000	0.0000	-1.27	0.398	40.212	
10/16/2013	1337	0917-173_N013_10_16_1337_46_271	1	-1.888	1.841	-0.077	0.098	1.251	0.080	0.236	1.879	-2.86	0.28	-0.0000	0.0000	-1.24	0.386	40.733	
10/16/2013	1338	0917-173_N013_10_16_1338_46_271	1	0.627	1.279	0.005	0.090	1.274	0.080	0.317	1.817	-2.869	0.29	-0.0000	0.0000	-0.94	0.389	41.843	
10/16/2013	1339	0917-173_N013_10_16_1339_46_782	1	1.84	1.217	-0.123	0.091	1.082	0.020	0.413	1.856	-2.85	0.27	-0.0000	0.0000	-0.85	0.373	18.186	
10/16/2013	1340	0917-173_N013_10_16_1340_46_442	1	0.268	1.398	-0.080	0.087	1.031	0.040	0.417	1.653	-2.141	0.23	-0.0000	0.0000	-0.96	0.378	18.186	
10/16/2013	1341	0917-173_N013_10_16_1341_46_272	1	-2.84	1.218	-0.001	0.077	1.181	0.020	0.384	1.881	-2.18	0.24	-0.0000	0.0000	-0.96	0.383	18.186	
10/16/2013	1342	0917-173_N013_10_16_1342_46_862	1	0.79	1.188	0.044	0.088	0.897	0.010	0.534	1.846	-2.005	0.23	-0.0000	0.0000	-1.23	0.378	11.374	
10/16/2013	1343	0917-173_N013_10_16_1343_46_792	1	0.13	1.221	-0.230	0.079	0.995	0.079	0.317	1.848	-1.804	0.21	-0.0000	0.0000	-0.89	0.379	23.847	
10/16/2013	1344	0917-173_N013_10_16_1344_46_212	1	-0.284	1.263	0.000	0.080	1.069	0.040	0.317	1.817	-2.969	0.28	-0.0000	0.0000	-1.12	0.382	32.009	
10/16/2013	1345	0917-173_N013_10_16_1345_46_212	1	-0.44	1.188	-0.040	0.078	0.871	0.010	0.332	1.860	-1.178	0.19	-0.0000	0.0000	-1.11	0.387	17.605	
10/16/2013	1346	0917-173_N013_10_16_1346_46_212	1	0.83	1.241	0.087	0.082	0.867	0.020	0.281	1.800	-1.972	0.16	-0.0000	0.0000	-0.43	0.383	22.594	
10/16/2013	1347	0917-173_N013_10_16_1347_46_796	1	5.147	1.219	0.087	0.087	1.045	0.010	0.497	1.877	-2.18	0.24	-0.0000	0.0000	-0.80	0.408	21.629	
10/16/2013	1348	0917-173_N013_10_16_1348_46_540	1	0.020	1.194	0.023	0.077	1.077	0.080	0.481	1.918	-1.32	0.19	-0.0000	0.0000	-0.84	0.381	21.782	
10/16/2013	1349	0917-173_N013_10_16_1349_46_212	1	-0.11	1.382	0.044	0.078	0.854	0.030	0.313	1.933	-1.399	0.19	-0.0000	0.0000	-0.37	0.395	24.506	
10/16/2013	1350	0917-173_N013_10_16_1350_46_212	1	0.71	1.343	-0.227	0.089	1.069	0.040	0.418	1.905	-1.93	0.28	-0.0000	0.0000	-0.82	0.378	41.090	
10/16/2013	1351	0917-173_N013_10_16_1351_46_909	1	0.161	1.408	0.133	0.077	0.955	0.040	0.330	1.918	-1.37	0.19	-0.0000	0.0000	-1.02	0.378	26.306	
10/16/2013	1352	0917-173_N013_10_16_1352_46_212	1	1.58	1.237	-0.070	0.084	0.904	0.020	0.428	1.904	-1.478	0.20	-0.0000	0.0000	-0.86	0.388	23.234	
10/16/2013	1353	0917-173_N013_10_16_1353_46_212	1	0.087	1.308	-0.000	0.079	1.098	0.000	0.434	1.865	-1.8	0.28	-0.0000	0.0000	-0.80	0.383	17.588	
10/16/2013	1354	0917-173_N013_10_16_1354_46_212	1	0.29	1.259	0.074	0.078	1.051	0.020	0.293	1.905	-1.32	0.15	-0.0000	0.0000	-1.08	0.396	17.494	
10/16/2013	1355	0917-173_N013_10_16_1355_46_212	1	-0.18	1.348	-0.000	0.075	0.985	0.040	0.338	1.908	-1.778	0.18	-0.0000	0.0000	-0.87	0.399	17.705	
10/16/2013	1356	0917-173_N013_10_16_1356_46_212	1	0.88	1.254	-0.010	0.078	1.289	0.000	0.328	1.911	-1.309	0.18	-0.0000	0.0000	-0.80	0.392	22.638	
10/16/2013	1357	0917-173_N013_10_16_1357_46_212	1	0.29	1.288	0.000	0.078	1.007	0.000	0.387	1.912	-1.488	0.19	-0.0000	0.0000	-0.48	0.383	14.493	
10/16/2013	1358	0917-173_N013_10_16_1358_46_212	1	-0.88	1.235	-0.000	0.079	1.095	0.000	0.380	1.935	-1.330	0.19	-0.0000	0.0000	-0.37	0.388	15.449	
10/16/2013	1359	0917-173_N013_10_16_1359_46_212	1	-0.89	1.406	-0.007	0.079	1.002	0.000	0.488	1.913	-1.84	0.19	-0.0000	0.0000	-0.81	0.408	21.843	
10/16/2013	1360	0917-173_N013_10_16_1360_46_212	1	0.16	1.282	-0.001	0.080	1.095	0.000	0.477	1.907	-1.52	0.24	-0.0000	0.0000	-0.82	0.402		

Location Obs. # Start/Stop Instrument

Table with columns: Date, Method, Filename, Label 1-Analyte, Label 2-Analyte, Label 3-Analyte/Spike, Label 4-Analyte, Label 5-Analyte, Label 6-Analyte, Label 7-Analyte, Label 8-Analyte. Rows contain detailed analytical data for various dates and methods.

Location Chr. # Start/Stop instrument

Date Method Histogram

Label 1-Analyte

DE Azobenz (ppm) SEC (ppm)

Label 2-Analyte

Formaldehyde (ppm) SEC (ppm)

Label 3-Analyte/Solite

Methanol (ppm) SEC (ppm)

Label 4-Analyte

Phenol (ppm) SEC (ppm)

Label 5-Analyte

Propionaldehyde (ppm) SEC (ppm)

Label 6-Analyte

Sulfurhexafluoride (ppm) SEC (ppm)

Formaldehyde (ppm) SEC (ppm) pinner (ppm)

Data CR 1 Start A

12/7 0.274

-0.100

1.189

0.240

0.216

0.216

Main data table with columns for Date, Method, Histogram, and various analyte concentrations (DE Azobenz, SEC, Formaldehyde, Methanol, Phenol, Propionaldehyde, Sulfurhexafluoride, pinner) for multiple samples.

Stop

Large table of data rows, likely containing a significant portion of the dataset with various analyte concentrations.

Data

Table of data rows, continuing the dataset with various analyte concentrations.

Stop

Table of data rows, continuing the dataset with various analyte concentrations.

Data

Table of data rows, continuing the dataset with various analyte concentrations.

Data

Table of data rows, concluding the dataset with various analyte concentrations.

Location: Dk. # Start/Stop: Instruments

Date	Method	Param	Of	Label 1-Analyte	Label 2-Analyte	Label 3-Analyte/Spike	Label 4-Analyte	Label 5-Analyte	Label Tracer	Label 8-Analyte				
Acetamin (ppm)	SEC (ppm)	Formaldehyde (ppm)	SEC (ppm)	Methanol (ppm)	SEC (ppm)	Phenol (ppm)	SEC (ppm)	Formaldehyde (ppm)	SEC (ppm)	Sulfur_hexafluoride (ppm)	SEC (ppm)	acetaldhyde (ppm)	SEC (ppm)	pinene (pp)
10/17/2013 15158	0817-179	10_14_1515_28_193	1	1.1210	1.362	0.871	0.990	2.18	0.236	0.11	1.88	0.498	0.148	
10/17/2013 15125	0817-179	10_14_1512_40_81	1	0.2360	1.532	0.622	0.988	2.78	0.258	0.10	1.99	0.305	0.244	
10/17/2013 15107	0817-179	10_14_1510_7_738	1	-1.7780	1.624	0.751	0.994	2.62	0.44	0.10	1.99	-0.767	0.144	
10/17/2013 1528	0817-179	10_14_1528_21_406	1	-0.8000	1.480	0.723	0.983	2.67	0.42	0.25	1.90	-0.803	0.138	
10/17/2013 15259	0817-179	10_14_1525_24_384	1	-2.950	1.502	0.76	0.986	2.82	0.48	0.11	1.99	-0.624	0.142	
10/17/2013 1510	0817-179	10_14_1510_28_844	1	-8.23	1.587	0.711	0.985	2.69	0.46	0.07	1.87	-0.48700	0.143	
10/17/2013 1521	0817-179	10_14_1521_27_714	1	-2.489	1.619	0.558	0.991	2.90	0.274	0.20	1.88	-0.947	0.150	
10/17/2013 1523	0817-179	10_14_1523_28_864	1	-1.8890	1.638	0.557	0.990	2.88	0.256	0.04	1.88	-0.960	0.146	
10/17/2013 1513	0817-179	10_14_1513_28_184	1	-5.13	1.902	0.64	0.984	2.87	0.234	0.03	1.99	-0.508	0.146	
10/17/2013 1514	0817-179	10_14_1514_28_996	1	-1.662	1.848	0.618	0.984	2.91	0.246	0.27	1.88	-0.808	0.147	
10/17/2013 1518	0817-179	10_14_1518_26_714	1	-3.900	1.522	0.814	0.983	2.88	0.311	0.05	1.87	-0.889	0.142	
10/17/2013 1518	0817-179	10_14_1518_31_654	1	-1.164	1.906	0.716	0.981	3.06	0.283	0.21	1.98	-0.608	0.148	
10/17/2013 1517	0817-179	10_14_1517_32_154	1	0.49900	1.878	0.647	0.983	2.98	0.254	0.32	1.87	-0.3380	0.147	
10/17/2013 1518	0817-179	10_14_1518_31_824	1	-1.376	1.824	0.589	0.990	3.08	0.375	0.10	1.87	-0.803	0.151	
10/17/2013 1510	0817-179	10_14_1510_31_853	1	-8.643	1.582	0.588	0.987	2.98	0.272	0.19	1.88	-0.9800	0.147	
10/17/2013 1514	0817-179	10_14_1514_30_261	1	-1.458	1.818	0.586	0.994	2.88	0.287	0.04	1.88	-0.6580	0.146	
10/17/2013 1515	0817-179	10_14_1515_31_845	1	-8.895	1.596	0.389	0.994	2.88	0.311	0.07	1.90	-0.9800	0.141	
10/17/2013 1515	0817-179	10_14_1515_30_598	1	-3.870	1.537	0.613	0.984	2.96	0.241	0.11	1.81	-1.017	0.141	
10/17/2013 1514	0817-179	10_14_1514_30_725	1	-1.257	1.825	0.678	0.996	3.09	0.410	0.15	1.89	-0.6400	0.148	
10/17/2013 1515	0817-179	10_14_1515_31_105	1	-1.891	1.838	0.681	0.993	2.98	0.245	0.32	1.88	-0.9800	0.142	
10/17/2013 1516	0817-179	10_14_1516_30_878	1	-0.213	1.882	0.607	0.988	3.01	0.233	0.13	1.87	-0.777	0.139	
10/17/2013 1517	0817-179	10_14_1517_30_975	1	-1.8060	1.813	0.810	0.988	3.14	0.259	0.14	1.88	-0.823	0.149	
10/17/2013 1518	0817-179	10_14_1518_30_939	1	-1.205	1.988	0.890	0.988	3.68	0.287	0.28	1.88	-0.968	0.150	
10/17/2013 1518	0817-179	10_14_1518_41_135	1	-0.357	1.640	0.533	0.988	3.00	0.272	0.28	1.88	-0.968	0.150	
10/17/2013 1519	0817-179	10_14_1519_41_493	1	1.529	1.602	0.642	0.988	2.71	0.242	0.30	1.89	-0.591	0.146	
10/17/2013 1519	0817-179	10_14_1519_41_809	1	1.81	1.593	0.488	0.986	2.86	0.248	0.13	1.90	-0.4800	0.146	
10/17/2013 1520	0817-179	10_14_1520_42_268	1	-2.902	1.585	0.681	0.984	1.83	0.148	0.13	1.88	-0.857	0.146	
10/17/2013 1520	0817-179	10_14_1520_42_268	1	-2.902	1.585	0.681	0.984	1.83	0.148	0.13	1.88	-0.857	0.146	
10/17/2013 1524	0817-179	10_14_1524_44_868	1	-2.790	1.582	0.802	0.987	2.80	0.249	0.03	1.90	-0.857	0.146	
10/17/2013 1525	0817-179	10_14_1525_45_268	1	-2.409	1.598	0.784	0.986	2.80	0.249	0.03	1.90	-0.857	0.146	
10/17/2013 1526	0817-179	10_14_1526_45_666	1	3.176	1.826	0.809	0.987	2.89	0.270	0.27	1.88	-0.759	0.130	
10/17/2013 1528	0817-179	10_14_1528_46_316	1	3.940	1.671	0.981	0.990	2.95	0.395	0.28	1.87	-0.908	0.132	
10/17/2013 1529	0817-179	10_14_1529_46_584	1	-1.649	1.984	0.985	0.986	2.92	0.380	0.28	1.87	-0.747	0.147	
10/17/2013 1530	0817-179	10_14_1530_46_586	1	-1.846	1.890	0.911	0.988	2.81	0.329	0.23	1.87	-0.908	0.130	
10/17/2013 1531	0817-179	10_14_1531_46_586	1	-1.587	1.848	0.582	0.980	2.82	0.275	0.27	1.86	-0.808	0.142	
10/17/2013 1532	0817-179	10_14_1532_46_586	1	-1.800	1.806	0.890	0.988	2.48	0.224	0.11	1.86	-1.010	0.150	
10/17/2013 1533	0817-179	10_14_1533_46_586	1	-1.095	1.649	0.643	0.986	2.41	0.228	0.32	1.88	-0.909	0.139	
10/17/2013 1534	0817-179	10_14_1534_46_586	1	-3.147	1.434	0.489	0.984	2.41	0.228	0.32	1.88	-1.010	0.150	
10/17/2013 1535	0817-179	10_14_1535_46_586	1	-1.425	1.947	0.625	0.989	2.47	0.228	0.23	1.82	-0.748	0.147	
10/17/2013 1536	0817-179	10_14_1536_46_586	1	-1.628	1.991	0.615	0.983	2.40	0.239	0.18	1.85	-0.7940	0.138	
10/17/2013 1537	0817-179	10_14_1537_46_586	1	-1.426	1.985	0.619	0.981	2.54	0.238	0.38	1.82	-0.908	0.138	
10/17/2013 1538	0817-179	10_14_1538_46_586	1	-2.156	1.949	0.581	0.984	2.56	0.239	0.38	1.82	-0.910	0.138	
10/17/2013 1539	0817-179	10_14_1539_46_586	1	-3.718	1.529	0.860	0.988	2.54	0.211	0.38	1.80	-0.6420	0.142	
10/17/2013 1540	0817-179	10_14_1540_46_586	1	-2.090	1.529	0.784	0.988	2.50	0.211	0.30	1.80	-0.818	0.133	
10/17/2013 1541	0817-179	10_14_1541_46_586	1	-2.090	1.529	0.784	0.988	2.50	0.211	0.30	1.80	-0.818	0.133	
10/17/2013 1542	0817-179	10_14_1542_46_586	1	-1.080	1.348	0.896	0.982	2.37	0.242	0.40	1.98	-0.587	0.138	
10/17/2013 1543	0817-179	10_14_1543_46_586	1	-2.480	1.598	0.586	0.982	2.37	0.242	0.40	1.98	-0.587	0.138	
10/17/2013 1544	0817-179	10_14_1544_46_586	1	-2.980	1.898	0.627	0.980	2.40	0.242	0.40	1.98	-0.587	0.138	
10/17/2013 1545	0817-179	10_14_1545_46_586	1	-4.801	1.897	0.890	0.988	2.38	0.259	0.32	1.98	-0.738	0.138	
10/17/2013 1546	0817-179	10_14_1546_46_586	1	-3.695	1.980	0.890	0.982	2.40	0.259	0.32	1.98	-0.738	0.138	
10/17/2013 1547	0817-179	10_14_1547_46_586	1	-0.822	1.661	0.643	0.979	2.96	0.278	0.69	1.80	-1.402	0.146	
10/17/2013 1548	0817-179	10_14_1548_46_586	1	0.010	1.980	-0.828	0.687	0.251	0.910	0.219	0.070	-1.80	0.118	
10/17/2013 1549	0817-179	10_14_1549_46_586	1	-1.0790	0.864	-0.214	0.864	0.724	0.930	0.115	0.281	-1.513	0.108	
10/17/2013 1550	0817-179	10_14_1550_46_586	1	0.6950	0.813	-0.163	0.813	0.093	0.910	0.020	0.020	-0.2080	0.102	
10/17/2013 1551	0817-179	10_14_1551_46_586	1	1.5720	0.996	0.180	0.996	0.111	0.930	0.150	0.210	-0.9790	0.093	
10/17/2013 1552	0817-179	10_14_1552_46_586	1	3.177	0.986	0.091	0.993	0.195	0.970	0.380	0.543	-0.058	0.085	
10/17/2013 1553	0817-179	10_14_1553_46_586	1	1.0960	0.819	0.091	0.993	0.093	0.970	0.380	0.543	-0.058	0.085	
10/17/2013 1554	0817-179	10_14_1554_46_586	1	2.776	0.986	-0.051	0.986	0.040	0.970	0.380	0.543	-0.058	0.085	
10/17/2013 1555	0817-179	10_14_1555_46_586	1	1.7960	0.959	0.099	0.984	0.098	0.943	0.610	0.482	0.058	0.080	
10/17/2013 1556	0817-179	10_14_1556_46_586	1	0.9960	0.959	0.099	0.984	0.098	0.943	0.610	0.482	0.058	0.080	
10/17/2013 1557	0817-179	10_14_1557_46_586	1	1.066	0.999	0.025	0.997	0.003	0.943	0.660	0.514	-0.091	0.090	
10/17/2013 1558	0817-179	10_14_1558_46_586	1	0.845	0.999	0.082	0.995	0.176	0.940	0.410	0.477	0.106	0.088	
10/17/2013 1559	0817-179	10_14_1559_46_586	1	0.010	1.826	0.091	0.991	0.091	0.910	0.410	0.477	0.106	0.088	
10/17/2013 1560	0817-179	10_14_1560_46_586	1	0.9130	0.805	0.005	0.995	0.090	0.940	0.610	0.482	0.058	0.080	
10/17/2013 1561	0817-179	10_14_1561_46_586	1	2.132	0.911	0.076	0.911	0.122	0.940	0.530	0.807	0.100</		

Location	Disc	#	Start/Stop	Instrument	Date	Method	FName	DF	Acrolens (ppm)	SEC (ppm)	Formaldehyde (ppm)	SEC (ppm)	Method	Formaldehyde (ppm)	SEC (ppm)	Pheol (ppm)	SEC (ppm)	Propionalsdehyde (ppm)	SEC (ppm)	Sulfur_hexafluoride (ppm)	SEC (ppm)	Acetaldehyde (ppm)	SEC (ppm)	Others (ppm)	
			1		19/12/2013 17:07	0817-173	NO3_10_14_1817_25_002		3.108	1.712	0.551	0.063	1.88	0.261	0.332	1.92	-0.760	0.148	0.0100	0.1130	0.01	0.115	0.479	5.665	
			1		19/12/2013 17:08	0817-173	NO3_10_14_1817_25_001		3.080	1.890	0.543	0.096	1.85	0.258	0.327	1.82	-0.820	0.162	-0.0000	0.0930	0.01	0.125	0.479	5.665	5.665
			1		19/12/2013 17:09	0817-173	NO3_10_14_1817_25_000		3.158	1.528	0.550	0.067	1.88	0.269	0.42	1.96	-0.868	0.161	-0.0000	0.0230	0.01	0.110	0.481	5.665	5.665
			1		19/12/2013 18:00	0817-173	NO3_10_14_1817_25_032		3.776	1.590	0.621	0.066	1.86	0.265	0.44	1.94	-0.584	0.147	-0.0000	0.0230	0.01	0.120	0.480	5.665	5.665
			1		19/12/2013 18:00	0817-173	NO3_10_14_1817_25_031		3.500	1.550	0.5490	0.099	1.91	0.256	0.40	1.80	-0.514	0.145	0.0000	0.0230	0.01	0.120	0.480	5.665	5.665
			1		19/12/2013 18:00	0817-173	NO3_10_14_1817_25_030		3.997	1.856	0.372	0.067	1.72	0.251	0.35	1.81	-0.760	0.147	0.0000	0.0230	0.01	0.120	0.480	5.665	5.665
			1		19/12/2013 18:05	0817-173	NO3_10_14_1817_25_062		1.660	2.637	0.440	0.085	1.86	0.260	0.259	1.93	-0.809	0.149	0.0000	0.0230	0.01	0.120	0.480	5.665	5.665
			1		19/12/2013 18:05	0817-173	NO3_10_14_1817_25_061		3.478	1.592	0.381	0.091	1.86	0.261	0.259	1.91	-0.570	0.148	-0.0000	0.0230	0.01	0.120	0.480	5.665	5.665
			1		19/12/2013 18:05	0817-173	NO3_10_14_1817_25_060		2.470	1.883	0.644	0.098	1.84	0.265	0.26	1.82	-0.800	0.149	0.0000	0.0230	0.01	0.120	0.480	5.665	5.665
			1		19/12/2013 18:06	0817-173	NO3_10_14_1817_25_059		1.817	1.589	0.462	0.080	1.84	0.258	0.41	1.94	-0.561	0.144	0.0000	0.0230	0.01	0.120	0.480	5.665	5.665
			1		19/12/2013 18:06	0817-173	NO3_10_14_1817_25_058		3.108	1.532	0.413	0.089	1.70	0.274	0.34	1.95	-0.889	0.139	-0.0000	0.0230	0.01	0.120	0.480	5.665	5.665
			1		19/12/2013 18:06	0817-173	NO3_10_14_1817_25_057		3.438	1.508	0.467	0.064	1.78	0.271	0.202	1.97	-0.737	0.140	-0.0000	0.0230	0.01	0.120	0.480	5.665	5.665
			1		19/12/2013 18:06	0817-173	NO3_10_14_1817_25_056		2.870	1.522	0.388	0.066	1.89	0.235	0.248	1.96	-0.506	0.142	0.0000	0.0230	0.01	0.120	0.480	5.665	5.665
			1		19/12/2013 18:06	0817-173	NO3_10_14_1817_25_055		3.014	1.804	0.308	0.088	1.85	0.231	0.231	1.91	-0.589	0.144	-0.0010	0.0230	0.01	0.120	0.480	5.665	5.665
			1		19/12/2013 18:06	0817-173	NO3_10_14_1817_25_054		3.182	1.844	0.648	0.088	1.88	0.240	0.225	1.94	-0.522	0.144	-0.0000	0.0230	0.01	0.120	0.480	5.665	5.665
			1		19/12/2013 18:06	0817-173	NO3_10_14_1817_25_053		3.387	1.971	0.388	0.086	1.89	0.235	0.248	1.96	-0.506	0.142	0.0000	0.0230	0.01	0.120	0.480	5.665	5.665
			1		19/12/2013 18:06	0817-173	NO3_10_14_1817_25_052		3.118	1.884	0.308	0.088	1.85	0.231	0.231	1.91	-0.589	0.144	-0.0010	0.0230	0.01	0.120	0.480	5.665	5.665
			1		19/12/2013 18:06	0817-173	NO3_10_14_1817_25_051		3.182	1.844	0.648	0.088	1.88	0.240	0.225	1.94	-0.522	0.144	-0.0000	0.0230	0.01	0.120	0.480	5.665	5.665
			1		19/12/2013 18:06	0817-173	NO3_10_14_1817_25_050		3.387	1.971	0.388	0.086	1.89	0.235	0.248	1.96	-0.506	0.142	0.0000	0.0230	0.01	0.120	0.480	5.665	5.665
			1		19/12/2013 18:06	0817-173	NO3_10_14_1817_25_049		3.118	1.884	0.308	0.088	1.85	0.231	0.231	1.91	-0.589	0.144	-0.0010	0.0230	0.01	0.120	0.480	5.665	5.665
			1		19/12/2013 18:06	0817-173	NO3_10_14_1817_25_048		3.182	1.844	0.648	0.088	1.88	0.240	0.225	1.94	-0.522	0.144	-0.0000	0.0230	0.01	0.120	0.480	5.665	5.665
			1		19/12/2013 18:06	0817-173	NO3_10_14_1817_25_047		3.387	1.971	0.388	0.086	1.89	0.235	0.248	1.96	-0.506	0.142	0.0000	0.0230	0.01	0.120	0.480	5.665	5.665
			1		19/12/2013 18:06	0817-173	NO3_10_14_1817_25_046		3.118	1.884	0.308	0.088	1.85	0.231	0.231	1.91	-0.589	0.144	-0.0010	0.0230	0.01	0.120	0.480	5.665	5.665
			1		19/12/2013 18:06	0817-173	NO3_10_14_1817_25_045		3.182	1.844	0.648	0.088	1.88	0.240	0.225	1.94	-0.522	0.144	-0.0000	0.0230	0.01	0.120	0.480	5.665	5.665
			1		19/12/2013 18:06	0817-173	NO3_10_14_1817_25_044		3.387	1.971	0.388	0.086	1.89	0.235	0.248	1.96	-0.506	0.142	0.0000	0.0230	0.01	0.120	0.480	5.665	5.665
			1		19/12/2013 18:06	0817-173	NO3_10_14_1817_25_043		3.118	1.884	0.308	0.088	1.85	0.231	0.231	1.91	-0.589	0.144	-0.0010	0.0230	0.01	0.120	0.480	5.665	5.665
			1		19/12/2013 18:06	0817-173	NO3_10_14_1817_25_042		3.182	1.844	0.648	0.088	1.88	0.240	0.225	1.94	-0.522	0.144	-0.0000	0.0230	0.01	0.120	0.480	5.665	5.665
			1		19/12/2013 18:06	0817-173	NO3_10_14_1817_25_041		3.387	1.971	0.388	0.086	1.89	0.235	0.248	1.96	-0.506	0.142	0.0000	0.0230	0.01	0.120	0.480	5.665	5.665
			1		19/12/2013 18:06	0817-173	NO3_10_14_1817_25_040		3.118	1.884	0.308	0.088	1.85	0.231	0.231	1.91	-0.589	0.144	-0.0010	0.0230	0.01	0.120	0.480	5.665	5.665
			1		19/12/2013 18:06	0817-173	NO3_10_14_1817_25_039		3.182	1.844	0.648	0.088	1.88	0.240	0.225	1.94	-0.522	0.144	-0.0000	0.0230	0.01	0.120	0.480	5.665	5.665
			1		19/12/2013 18:06	0817-173	NO3_10_14_1817_25_038		3.387	1.971	0.388	0.086	1.89	0.235	0.248	1.96	-0.506	0.142	0.0000	0.0230	0.01	0.120	0.480	5.665	5.665
			1		19/12/2013 18:06	0817-173	NO3_10_14_1817_25_037		3.118	1.884	0.308	0.088	1.85	0.231	0.231	1.91	-0.589	0.144	-0.0010	0.0230	0.01	0.120	0.480	5.665	5.665
			1		19/12/2013 18:06	0817-173	NO3_10_14_1817_25_036		3.182	1.844	0.648	0.088	1.88	0.240	0.225	1.94	-0.522	0.144	-0.0000	0.0230	0.01	0.120	0.480	5.665	5.665
			1		19/12/2013 18:06	0817-173	NO3_10_14_1817_25_035		3.387	1.971	0.388	0.086	1.89	0.235	0.248	1.96	-0.506	0.142	0.0000	0.0230	0.01	0.120	0.480	5.665	5.665
			1		19/12/2013 18:06	0817-173	NO3_10_14_1817_25_034		3.118	1.884	0.308	0.088	1.85	0.231	0.231	1.91	-0.589	0.144	-0.0010	0.0230	0.01	0.120	0.480	5.665	5.665
			1		19/12/2013 18:06	0817-173	NO3_10_14_1817_25_033		3.182	1.844	0.648	0.088	1.88	0.240	0.225	1.94	-0.522	0.144	-0.0000	0.0230	0.01	0.120	0.480	5.665	5.665
			1		19/12/2013 18:06	0817-173	NO3_10_14_1817_25_032		3.387	1.971	0.388	0.086	1.89	0.235	0.248	1.96	-0.506	0.142	0.0000	0.0230	0.01	0.120	0.480	5.665	5.665
			1		19/12/2013 18:06	0817-173	NO3_10_14_1817_25_031		3.118	1.884	0.308	0.088	1.85	0.231	0.231	1.91	-0.589	0.144	-0.0010	0.0230	0.01	0.120	0.480	5.665	5.665
			1		19/12/2013 18:06	0817-173	NO3_10_14_1817_25_030		3.182	1.844	0.648	0.088	1.88	0.240	0.225	1.94	-0.522	0.144	-0.0000	0.0230	0.01	0.120	0.480	5.665	5.665
			1		19/12/2013 18:06	0817-173	NO3_10_14_1817_25_029		3.387	1.971	0.388	0.086	1.89	0.235	0.248	1.96	-0.506	0.142	0.0000	0.0230	0.01	0.120	0.480	5.665	5.665
			1		19/12/2013 18:06	0817-173	NO3_10_14_1817_25_028		3.118	1.884	0.308	0.088	1.85	0.231	0.231	1.91	-0.589	0.144	-0.0010	0.0230	0.01	0.120	0.480	5.665	5.665
			1		19/12/2013 18:06	0817-173	NO3_10_14_1817_25_027		3.182	1.844	0.648	0.088	1.88	0.240	0.225	1.94	-0.522	0.144	-0.0000	0.0230	0.01	0.120	0.480	5.665	5.665
			1		19/12/2013 18:06	08																			

Location	Disc	#	Start/Stop	Instrument	Label 1-Analyte	Label 2-Analyte	Label 3-Analyte	Label 4-Analyte	Label 5-Analyte	Label 6-Analyte	Label 7-Analyte	Label 8-Analyte								
10/14/2013	1847	0917-173	M313_10_14_1947_21_005	1	9.007	1.311	0.023	0.130	0.370	0.158	0.533	0.57	0.023	0.306	-0.018	0.00900	1.61	1.03	0.681	
10/14/2013	1847	0917-173	M313_10_14_1947_21_005	1	11.323	1.449	0.149	0.380	-0.109	0.137	0.076	0.54	0.783	0.268	0.147	0.184	0.19	1.78	2.38	0.588
10/14/2013	1847	0917-173	M313_10_14_1947_21_005	1	8.857	1.511	0.031	0.179	-0.15	0.144	0.551	0.27	0.237	0.395	-0.01300	0.00700	-1.8350	0.28	0.533	0.588
10/14/2013	1847	0917-173	M313_10_14_1947_21_005	1	-0.854	1.162	0.189	0.181	0.455	0.133	0.847	0.52	0.050	0.288	-0.01600	0.00700	-0.117	0.06	0.333	0.588
10/14/2013	1847	0917-173	M313_10_14_1947_21_005	1	-9.49	3.140	0.150	0.370	-0.5000	0.240	0.900	0.71	0.331	0.241	-0.01600	0.00900	-1.170	0.08	0.387	0.588
10/14/2013	1847	0917-173	M313_10_14_1947_21_005	1	11.844	1.172	-0.210	0.191	-0.2360	0.137	0.058	0.82	-0.0400	0.263	-0.01600	0.00900	-1.29	0.05	0.314	0.588
10/14/2013	1848	0917-173	M313_10_14_1948_21_005	1	1.003	1.317	-0.182	0.173	0.073	0.228	0.834	0.79	-0.0210	0.30000	-0.01800	0.00800	-2.291	0.05	0.218	0.588
10/14/2013	1848	0917-173	M313_10_14_1948_21_005	1	-7.8330	2.944	-0.034	0.175	-0.1660	0.127	0.683	0.94	0.275	0.276	-0.02000	0.00700	-1.14	0.08	0.211	0.588
10/14/2013	1848	0917-173	M313_10_14_1948_21_005	1	-6.18	2.202	0.073	0.166	-0.251	0.137	0.567	0.80	0.043	0.281	-0.02000	0.00700	-2.79	0.05	-0.135	0.588
10/14/2013	1848	0917-173	M313_10_14_1948_21_005	1	-7.25	1.164	0.03600	0.165	0.278	0.228	0.413	0.82	0.027	0.276	-0.02000	0.00800	-0.399	0.00	0.159	0.588
10/14/2013	1848	0917-173	M313_10_14_1948_21_005	1	-3.801	3.097	-0.127	0.166	-0.1800	0.136	0.543	0.95	0.150	0.275	-0.02000	0.00800	-0.400	0.00	0.159	0.588
10/14/2013	1848	0917-173	M313_10_14_1948_21_005	1	3.824	2.879	0.184	0.171	0.1810	0.133	0.51	1.00	0.010	0.276	-0.02000	0.00800	-0.399	0.00	0.159	0.588
10/14/2013	1848	0917-173	M313_10_14_1948_21_005	1	-4.430	3.233	0.044	0.172	-0.0870	0.131	0.799	1.00	0.17	0.288	-0.02300	0.01000	-0.907	0.06	0.072	0.588
10/14/2013	1848	0917-173	M313_10_14_1948_21_005	1	-6.633	2.899	0.074	0.170	-0.2200	0.134	0.966	1.03	0.12	0.274	-0.01900	0.00700	-0.251	0.03	0.111	0.588
10/14/2013	1848	0917-173	M313_10_14_1948_21_005	1	0.413	2.896	-0.235	0.166	-0.1500	0.137	0.995	1.15	-0.0500	0.277	-0.01600	0.00700	-0.1770	0.03	0.111	0.588
10/14/2013	1848	0917-173	M313_10_14_1948_21_005	1	-4.113	3.108	-0.135	0.173	-0.0110	0.128	1.050	1.00	0.18	0.288	-0.02000	0.00800	-0.367	0.05	0.114	0.588
10/14/2013	1848	0917-173	M313_10_14_1948_21_005	1	-4.595	3.041	-0.147	0.165	-0.264	0.136	0.768	1.08	0.237	0.289	-0.02000	0.00700	-1.185	0.09	0.063	0.588
10/14/2013	1848	0917-173	M313_10_14_1948_21_005	1	0.175	3.187	-0.121	0.166	-0.1500	0.137	0.995	1.15	-0.0500	0.277	-0.01600	0.00700	-0.1770	0.03	0.111	0.588
10/14/2013	1848	0917-173	M313_10_14_1948_21_005	1	-0.433	2.896	-0.061	0.173	-0.214	0.130	1.146	1.16	0.315	0.272	-0.02400	0.01000	-0.890	0.05	0.004	0.588
10/14/2013	1848	0917-173	M313_10_14_1948_21_005	1	-0.442	3.047	0.038	0.170	-0.139	0.131	0.15	1.11	0.201	0.280	-0.02000	0.00700	-1.06	0.04	0.067	0.588
10/14/2013	1848	0917-173	M313_10_14_1948_21_005	1	-1.26	2.877	0.154	0.158	-0.1020	0.136	1.261	1.21	-0.135	0.281	-0.02700	0.00700	-0.26	0.04	0.057	0.588
10/14/2013	1848	0917-173	M313_10_14_1948_21_005	1	0.633	2.993	0.151	0.169	-0.118	0.133	1.074	1.28	-0.411	0.272	-0.02700	0.00700	-1.195	0.01	0.133	0.588
10/14/2013	1848	0917-173	M313_10_14_1948_21_005	1	8.779	2.840	-0.033	0.133	-0.095	0.134	0.640	1.33	0.314	0.233	-0.01500	0.00700	-0.105	0.04	0.064	0.588
10/14/2013	1848	0917-173	M313_10_14_1948_21_005	1	3.445	2.869	0.032	0.153	-0.262	0.132	0.621	1.37	0.50	0.233	-0.01600	0.00600	-0.251	0.05	0.151	0.588
10/14/2013	1848	0917-173	M313_10_14_1948_21_005	1	-1.904	3.060	0.00000	0.156	0.0410	0.137	1.051	1.468	0.606	0.261	-0.02400	0.00600	-1.13	0.08	0.289	0.588
10/14/2013	1848	0917-173	M313_10_14_1948_21_005	1	-5.9900	2.946	-0.378	0.151	0.040	0.124	1.50	1.522	-0.078	0.233	-0.03300	0.00600	-0.880	0.07	0.117	0.588
10/14/2013	1848	0917-173	M313_10_14_1948_21_005	1	3.608	2.755	-0.008	0.134	0.870	0.117	1.153	1.292	0.033	0.233	-0.02000	0.00600	-0.145	0.01	0.221	0.588
10/14/2013	1848	0917-173	M313_10_14_1948_21_005	1	1.400	2.959	-0.120	0.156	-0.300	0.130	1.231	1.437	-0.190	0.219	-0.02000	0.00700	-1.445	0.01	0.221	0.588
10/14/2013	1848	0917-173	M313_10_14_1948_21_005	1	-0.785	2.632	0.178	0.155	0.03100	0.135	0.829	1.582	0.301	0.246	-0.01700	0.00600	-0.446	0.01	0.197	0.588
10/14/2013	1848	0917-173	M313_10_14_1948_21_005	1	-4.178	2.688	-0.211	0.161	-0.299	0.134	1.213	1.419	-0.174	0.249	-0.01900	0.00600	-0.180	0.04	0.087	0.588
10/14/2013	1848	0917-173	M313_10_14_1948_21_005	1	1.400	2.959	-0.120	0.156	-0.300	0.130	1.231	1.437	-0.190	0.219	-0.02000	0.00700	-1.445	0.01	0.221	0.588
10/14/2013	1848	0917-173	M313_10_14_1948_21_005	1	-4.207	2.684	0.131	0.166	0.113	0.138	1.014	1.511	-0.300	0.245	-0.01900	0.00700	-0.953	0.03	0.173	0.588
10/14/2013	1848	0917-173	M313_10_14_1948_21_005	1	-0.040	2.604	0.360	0.170	-0.290	0.133	0.936	1.522	0.112	0.262	-0.02000	0.00700	-1.195	0.04	0.064	0.588
10/14/2013	1848	0917-173	M313_10_14_1948_21_005	1	4.58	3.817	-0.160	0.165	-0.180	0.139	1.016	1.05	0.25	0.265	-0.02000	0.00700	-0.89	0.02	0.056	0.588
10/14/2013	1848	0917-173	M313_10_14_1948_21_005	1	0.991	2.578	-0.020	0.159	-0.219	0.140	0.817	1.512	-0.26	0.247	-0.02000	0.00700	-1.144	0.03	0.154	0.588
10/14/2013	1848	0917-173	M313_10_14_1948_21_005	1	4.500	2.877	0.130	0.153	-0.0970	0.139	0.731	1.570	-0.345	0.236	-0.02000	0.00700	-0.78	0.02	0.021	0.588
10/14/2013	1848	0917-173	M313_10_14_1948_21_005	1	4.58	3.817	-0.160	0.165	-0.180	0.139	1.016	1.05	0.25	0.265	-0.02000	0.00700	-0.89	0.02	0.056	0.588
10/14/2013	1848	0917-173	M313_10_14_1948_21_005	1	-1.180	2.733	0.156	0.151	0.210	0.129	1.183	1.548	-0.387	0.248	-0.02000	0.00600	-1.478	0.01	0.214	0.588
10/14/2013	1848	0917-173	M313_10_14_1948_21_005	1	-7.559	2.810	-0.080	0.161	-0.210	0.134	1.166	1.520	0.183	0.264	-0.02000	0.00600	-1.13	0.08	0.242	0.588
10/14/2013	1848	0917-173	M313_10_14_1948_21_005	1	6.128	2.963	0.121	0.160	-0.160	0.138	0.910	1.62	0.159	0.232	-0.02000	0.00600	-0.28	0.02	0.041	0.588
10/14/2013	1848	0917-173	M313_10_14_1948_21_005	1	4.547	2.714	0.00000	0.144	0.100	0.138	0.600	1.535	0.193	0.247	-0.02000	0.00700	-1.4	0.01	0.189	0.588
10/14/2013	1848	0917-173	M313_10_14_1948_21_005	1	-8.059	2.943	0.125	0.150	0.400	0.130	0.933	1.596	0.06	0.251	-0.02000	0.00600	-1.762	0.01	0.275	0.588
10/14/2013	1848	0917-173	M313_10_14_1948_21_005	1	-0.218	2.961	0.101	0.161	-0.040	0.138	1.490	1.505	0.010	0.260	-0.02000	0.00600	-0.6	0.01	0.249	0.588
10/14/2013	1848	0917-173	M313_10_14_1948_21_005	1	7.818	2.988	0.030	0.146	0.066	0.124	0.838	1.564	0.064	0.241	-0.02	0.270	-0.65	0.01	0.289	0.588
10/14/2013	1848	0917-173	M313_10_14_1948_21_005	1	-2.968	2.913	-0.111	0.135	0.005	0.134	0.777	1.566	-0.370	0.232	-0.01000	0.00700	-1.445	0.01	0.221	0.588
10/14/2013	1848	0917-173	M313_10_14_1948_21_005	1	-0.779	2.863	0.151	0.133	0.811	0.159	0.822	1.569	0.020	0.270	-0.02000	0.00600	-0.96	0.03	0.238	0.588
10/14/2013	1848	0917-173	M313_10_14_1948_21_005	1	-0.217	2.788	0.040	0.156	0.290	0.129	0.843	1.617	0.028	0.233	-0.02000	0.00600	-1.57	0.04	0.234	0.588
10/14/2013	1848	0917-173	M313_10_14_1948_21_005	1	-11.32	2.873	-0.240	0.152	-0.178	0.137	0.809	1.629	0.397	0.241	-0.02000	0.00600	-1.8	0.06	0.250	0.588
10/14/2013	1848	0917-173	M313_10_14_1948_21_005	1	-2.389	2.819	0.154	0.160	-0.170	0.139	1.287	1.548	-0.281	0.246	-0.01600	0.00700	-1.79	0.01	0.285	0.588
10/14/2013	1848	0917-173	M313_10_14_1948_21_005	1	-7.666	2.868	0.145	0.151	-0.040	0.131	1.012	1.575	-0.352	0.254	-0.01600	0.00600	-0.87	0.05	0.29	0.588
10/14/2013	1848	0917-173	M313_10_14_1948_21_005	1	-1.783	2.994	0.130	0.149	-0.140	0.131	0.857	1.566	-0.05	0.241	-0.02000	0.00700	-1.23	0.01	0.283	0.588
10/14/2013	1848	0917-173	M313_10_14_1948_21_005	1	-1.447	2.680	0.145	0.153	0.060	0.133	0.637	1.584	-0.05	0.244	-0.02000	0.00700	-1.676	0.01</		

Location	Date	#	Start/Stop	Instrument	Label	Sample	Depth	Lat	Long	Time	Temp	Sal	Density	Speed	Dir	Current	Surf	Wave	Wind	Pressure															
Data	Run	5	Start	A		0.504	0.020	0.120	0.000	0.111	0.011	0.010	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000														
						0.504	0.020	0.120	0.000	0.111	0.011	0.010	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000											
						0.504	0.020	0.120	0.000	0.111	0.011	0.010	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000										
						0.504	0.020	0.120	0.000	0.111	0.011	0.010	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000										
					Data	Run	6	Start	A		0.504	0.020	0.120	0.000	0.111	0.011	0.010	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000								
											0.504	0.020	0.120	0.000	0.111	0.011	0.010	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000						
											0.504	0.020	0.120	0.000	0.111	0.011	0.010	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000					
											0.504	0.020	0.120	0.000	0.111	0.011	0.010	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000					
										Data	Run	7	Start	A		0.504	0.020	0.120	0.000	0.111	0.011	0.010	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000			
																0.504	0.020	0.120	0.000	0.111	0.011	0.010	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
																0.504	0.020	0.120	0.000	0.111	0.011	0.010	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
																0.504	0.020	0.120	0.000	0.111	0.011	0.010	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Location Disc. # Share/Step Instrument					Label 1-Analyte		Label 2-Analyte		Label 3-Analyte/Isotope		Label 4-Analyte		Label 5-Analyte		Label 6-Analyte		Label 7-Analyte	
Date	Method	Filename	DF	Acetone (ppm)	SEC (ppm)	Formaldehyde (ppm)	SEC (ppm)	Methanol (ppm)	SEC (ppm)	Phenol (ppm)	SEC (ppm)	Propionaldehyde (ppm)	SEC (ppm)	Sulfur_hexafluoride (ppm)	SEC (ppm)	acetaldhyde (ppm)	SEC (ppm)	nitrate (ppm)
10/15/2013	1548	0917-173_N013_10_15_1548_02_412	1	3.2810	1.068	0.007	0.074	0.647	0.2670	0.326	1.483	1.15	0.221	0.0050	0.569	0.778	0.316	11.509
10/15/2013	1549	0917-173_N013_10_15_1549_06_170	1	0.878	1.058	0.018	0.077	0.853	0.0465	0.660	1.474	0.0200	0.0020	0.0000	0.0000	0.53	0.327	32.261
10/15/2013	1550	0917-173_N013_10_15_1550_06_201	1	1.786	1.066	0.018	0.071	0.905	0.0600	0.581	1.468	2.85	0.217	-0.0040	0.0030	0.19	0.321	31.82
10/15/2013	1552	0917-173_N013_10_15_1552_06_031	1	1.862	1.014	0.017	0.075	0.853	0.0600	0.438	1.422	2.21	0.215	-0.0040	0.0030	0.28	0.328	30.843
10/15/2013	1553	0917-173_N013_10_15_1553_01_401	1	1.951	1.027	-0.010	0.070	0.690	0.0550	0.407	1.388	0.005	0.0050	0.0000	0.0000	-0.53	0.316	3.825
10/15/2013	1554	0917-173_N013_10_15_1554_02_231	1	0.878	1.067	0.018	0.074	0.853	0.0600	0.414	1.412	-0.1550	0.007	-0.0030	0.0020	0.463	0.322	0.62
10/15/2013	1555	0917-173_N013_10_15_1555_02_391	1	2.583	0.951	0.018	0.064	-0.010	0.0510	0.5720	1.338	-0.001	0.089	-0.0010	0.0020	-0.648	0.314	0.519
10/15/2013	1556	0917-173_N013_10_15_1556_01_201	1	1.441	1.045	0.017	0.068	0.853	0.0510	0.690	1.433	0.139	0.094	0.0000	0.0020	0.464	0.295	0.483
10/15/2013	1557	0917-173_N013_10_15_1557_04_571	1	1.407	0.981	0.018	0.061	0.905	0.0510	0.6410	1.433	0.100	0.087	0.0000	0.0020	-0.67	0.308	0.461
10/15/2013	1558	0917-173_N013_10_15_1558_05_231	1	1.746	1.032	-0.001	0.058	0.070	0.0510	0.7770	1.447	0.090	0.084	-0.0010	0.0020	-0.375	0.311	0.477
10/15/2013	1559	0917-173_N013_10_15_1559_06_201	1	1.7530	0.996	0.134	0.058	0.040	0.020	0.5470	1.145	-0.294	0.093	-0.0010	0.0020	-0.070	0.304	0.334
10/15/2013	1600	0917-173_N013_10_15_1600_06_731	1	0.785	0.980	0.007	0.053	0.376	0.0510	0.471	1.185	-0.057	0.089	0.0000	0.0020	-0.323	0.311	0.477
10/15/2013	1601	0917-173_N013_10_15_1601_07_531	1	1.683	0.992	0.011	0.050	0.084	0.0510	0.5360	1.149	0.015	0.090	0.0000	0.0020	0.331	0.303	0.507
10/15/2013	1602	0917-173_N013_10_15_1602_08_231	1	0.483	0.975	-0.070	0.055	0.03	0.040	0.398	1.145	-0.139	0.094	0.0000	0.0020	-0.468	0.295	0.483
10/15/2013	1603	0917-173_N013_10_15_1603_09_201	1	2.035	1.040	0.015	0.051	-0.020	0.040	0.686	1.146	0.201	0.091	0.0000	0.0020	0.159	0.294	0.465
10/15/2013	1604	0917-173_N013_10_15_1604_09_802	1	1.2440	0.991	0.045	0.055	0.360	0.050	0.5730	1.344	0.094	0.091	0.0000	0.0020	-0.670	0.311	0.477
10/15/2013	1605	0917-173_N013_10_15_1605_10_513	1	2.809	1.020	0.013	0.055	0.020	0.020	0.401	1.144	0.029	0.091	-0.0040	0.0020	0.185	0.315	0.761
10/15/2013	1606	0917-173_N013_10_15_1606_11_241	1	1.8160	1.009	0.054	0.052	0.032	0.020	0.418	1.151	0.029	0.090	0.0000	0.0020	0.468	0.307	0.558
10/15/2013	1607	0917-173_N013_10_15_1607_12_091	1	2.154	0.984	0.074	0.055	0.046	0.032	0.475	1.137	0.029	0.090	0.0000	0.0020	-0.22	0.304	0.374
10/15/2013	1608	0917-173_N013_10_15_1608_13_841	1	1.893	1.028	0.039	0.055	0.047	0.0510	0.5910	1.145	0.096	0.092	-0.0010	0.0020	-0.133	0.319	0.339
10/15/2013	1609	0917-173_N013_10_15_1609_14_331	1	1.6490	1.076	0.060	0.054	0.046	0.020	0.439	1.152	0.093	0.094	0.0000	0.0020	0.284	0.302	0.452
10/15/2013	1610	0917-173_N013_10_15_1610_15_061	1	1.619	0.901	0.149	0.054	-0.046	0.050	0.8270	1.149	-0.018	0.087	0.0000	0.0020	-0.443	0.291	0.387
10/15/2013	1611	0917-173_N013_10_15_1611_15_061	1	1.330	0.982	0.089	0.054	-0.010	0.0200	0.542	1.147	0.094	0.088	0.0000	0.0020	-0.384	0.292	0.452
10/15/2013	1612	0917-173_N013_10_15_1612_15_072	1	1.883	1.043	0.040	0.057	0.021	0.020	0.620	1.147	-0.010	0.088	-0.0080	0.0030	0.203	0.322	0.58
10/15/2013	1613	0917-173_N013_10_15_1613_15_072	1	1.883	1.099	-0.017	0.059	-0.039	0.010	0.512	1.155	0.115	0.094	0.0000	0.0020	-0.389	0.320	0.739
10/15/2013	1614	0917-173_N013_10_15_1614_17_341	1	1.808	0.960	-0.007	0.054	-0.010	0.0200	0.592	1.164	0.021	0.089	0.0000	0.0020	-0.190	0.315	0.719
10/15/2013	1617	0917-173_N013_10_15_1617_19_744	1	-1.0	1.1	0.116	0.079	-0.19	0.118	0.0900	0.529	0.023	0.118	0.049	0.156	0.47	0.395	-0.171
10/15/2013	1618	0917-173_N013_10_15_1618_20_254	1	-2.0	1.2	0.034	0.071	-0.18	1.18	0.564	0.1000	0.023	0.118	0.049	0.156	0.47	0.395	-0.171
10/15/2013	1619	0917-173_N013_10_15_1619_21_244	1	-0.4	1.3	0.030	0.073	-0.19	1.42	0.2070	0.0900	0.021	0.118	0.049	0.156	0.47	0.395	-0.171
10/15/2013	1620	0917-173_N013_10_15_1620_22_184	1	-0.4	1.1	0.075	0.075	-0.21	1.43	0.033	0.087	0.044	0.116	0.048	0.176	0.287	0.390	-1.75
10/15/2013	1621	0917-173_N013_10_15_1621_23_184	1	-0.4	1.1	0.023	0.072	-0.19	1.45	-0.0240	0.0960	0.1100	0.117	0.054	0.140	-0.640	0.388	-1.82
10/15/2013	1628	0917-173_N013_10_15_1628_23_344	1	-0.3	1.1	0.030	0.073	-0.21	1.46	0.249	0.0940	-0.1320	0.117	0.051	0.147	-0.670	0.387	-1.82
10/15/2013	1629	0917-173_N013_10_15_1629_24_344	1	-0.4	1.1	0.183	0.071	-0.43	1.46	0.0910	0.0900	0.117	0.117	0.051	0.147	-0.670	0.387	-1.82
10/15/2013	1630	0917-173_N013_10_15_1630_24_464	1	-0.1	1.2	0.250	0.072	-0.42	1.46	-0.0290	0.1020	-0.150	0.111	0.054	0.147	-0.670	0.387	-1.82
10/15/2013	1639	0917-173_N013_10_15_1639_24_084	1	-0.6	1.3	0.240	0.075	-0.46	1.48	0.0610	0.0990	0.189	0.121	0.058	0.148	-0.57	0.384	-1.84
10/15/2013	1640	0917-173_N013_10_15_1640_25_504	1	-0.3	1.4	0.1720	0.079	-0.46	1.48	0.0770	0.0980	0.189	0.121	0.058	0.148	-0.57	0.384	-1.84
10/15/2013	1641	0917-173_N013_10_15_1641_26_024	1	-1.1	1.2	0.250	0.072	-0.42	1.46	0.061	0.0960	0.117	0.117	0.054	0.147	-0.670	0.387	-1.82
10/15/2013	1630	0917-173_N013_10_15_1630_25_654	1	-1.4	1.4	0.1200	0.079	-0.46	1.48	-0.001	0.0900	0.189	0.121	0.058	0.148	-0.57	0.384	-1.84
10/15/2013	1631	0917-173_N013_10_15_1631_26_124	1	-1.4	1.3	0.0200	0.073	-0.48	1.46	-0.0160	0.0960	0.116	0.121	0.058	0.148	-0.57	0.384	-1.84
10/15/2013	1632	0917-173_N013_10_15_1632_26_274	1	-1.3	1.2	0.017	0.072	-0.46	1.46	-0.021	0.080	0.116	0.121	0.058	0.148	-0.57	0.384	-1.84
10/15/2013	1633	0917-173_N013_10_15_1633_26_334	1	-1.4	1.3	0.011	0.076	-0.47	1.46	-0.193	0.0870	0.2200	0.122	0.028	0.137	0.39	0.384	-1.84
10/15/2013	1634	0917-173_N013_10_15_1634_26_334	1	-1.4	1.3	0.011	0.076	-0.47	1.46	-0.193	0.0870	0.2200	0.122	0.028	0.137	0.39	0.384	-1.84
10/15/2013	1635	0917-173_N013_10_15_1635_26_334	1	-1.4	1.3	0.011	0.076	-0.47	1.46	-0.193	0.0870	0.2200	0.122	0.028	0.137	0.39	0.384	-1.84
10/15/2013	1700	0917-173_N013_10_15_1700_46_787	1	-3.6	1.3	0.028	0.075	-0.47	1.46	-0.0160	0.0960	0.116	0.121	0.058	0.148	-0.57	0.384	-1.84
10/15/2013	1708	0917-173_N013_10_15_1708_46_917	1	-2.11	1.388	0.106	0.180	3.44	1.142	0.10	1.98	2.06	0.66	-0.050	0.0400	3.7	0.52	94.28
10/15/2013	1709	0917-173_N013_10_15_1709_47_787	1	-1.25	1.360	0.044	0.177	1.76	1.145	-0.13	1.95	0.66	0.66	-0.050	0.0400	3.6	0.54	99.89
10/15/2013	1710	0917-173_N013_10_15_1710_48_387	1	-2.86	1.580	0.068	0.179	1.88	1.147	0.10	1.97	0.66	0.66	-0.050	0.0400	3.6	0.54	99.89
10/15/2013	1711	0917-173_N013_10_15_1711_49_097	1	-2.77	1.411	0.184	0.181	3.82	1.142	0.10	1.97	0.66	0.66	-0.050	0.0400	3.6	0.54	99.89
10/15/2013	1712	0917-173_N013_10_15_1712_49_267	1	-2.19	1.371	0.063	0.189	1.88	1.147	-0.224	1.97	0.66	0.66	-0.050	0.0400	4.3	0.51	105.61
10/15/2013	1713	0917-173_N013_10_15_1713_49_267	1	-2.21	1.371	0.063	0.189	1.88	1.147	-0.224	1.97	0.66	0.66	-0.050	0.0400	4.3	0.51	105.61
10/15/2013	1714	0917-173_N013_10_15_1714_49_267	1	-2.40	1.454	0.074	0.191	1.88	1.147	-0.195	1.95	0.66	0.66	-0.050	0.0400	4.2	0.51	105.61
10/15/2013	1715	0917-173_N013_10_15_1715_49_267	1	-2.53	1.419	0.078	0.192	1.85	1.150	-0.098	1.96	0.66	0.66	-0.050	0.0400	4.2	0.51	105.61
10/15/2013	1716	0917-173_N013_10_15_1716_49_267	1	-1.19	1.382	0.079	0.189	1.88	1.147	-0.098	1.96	0.66	0.66	-0.050	0.0400	4.2	0.51	105.61
10/15/2013	1718	0917-173_N013_10_15_1718_49_267	1	-4.70	1.882	0.083	0.190	1.85	1.145	-0.178	1.95	-1.8	0.71	-0.0000	0.0500	-4.9	0.57	104.26
10/15/2013	1719	0917-173_N013_10_15_1719_49_267	1	-4.70	1.882	0.083	0.190	1.85	1.145	-0.178	1.95	-1.8	0.71	-0.0000	0.0500	-4.9	0.57	104.26
1																		

Table with 15 columns: Location, Date, Method, Filename, DF, Acronym, SEC, 1-Analyte, 2-Analyte, 3-Analyte, 4-Analyte, 5-Analyte, 6-Analyte, 7-Analyte, 8-Analyte, 9-Analyte, 10-Analyte. Rows include data for various analytes like Methanol, Ethanol, and others, with numerical values and units.

Location	Dec.	R	Start/Stop	Instrument	Date	Method	Filename	Obs	Acquire	Label	Label	Label	Label	Label	Label	Label	Label	Label	Label	Label	Label				
										1-Analyte	2-Analyte	3-Analyte	4-Analyte	5-Analyte	6-Analyte	7-Analyte	8-Analyte	9-Analyte	10-Analyte	11-Analyte	12-Analyte	13-Analyte			
10/15/2013	21:30	0917-179	0013_10_15_2130_ZI_484	1	2.072	1.87	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143		
10/15/2013	21:30	0917-179	0013_10_15_2130_ZI_484	1	0.81	2.559	0.3	0.3	0.146	0.096	0.121	0.4	1.773	0.421	0.217	0.024	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
10/15/2013	21:30	0917-179	0013_10_15_2130_ZI_484	1	0.641	2.786	-0.078	0.143	0.224	0.234	0.833	1.730	0.18	0.419	-0.016	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
10/15/2013	21:30	0917-179	0013_10_15_2130_ZI_484	1	0.822	2.786	0.044	0.146	0.060	0.121	0.837	1.687	0.200	0.241	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
10/15/2013	21:30	0917-179	0013_10_15_2130_ZI_484	1	1.978	2.655	0.000	0.153	0.085	0.216	1.000	1.466	0.100	0.240	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
10/15/2013	21:30	0917-179	0013_10_15_2130_ZI_484	1	2.80	2.847	-0.001	0.153	0.220	0.234	0.830	1.515	0.186	0.232	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
10/15/2013	21:30	0917-179	0013_10_15_2130_ZI_484	1	0.154	2.758	0.000	0.151	0.000	0.122	0.849	1.614	0.045	0.249	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
10/15/2013	21:30	0917-179	0013_10_15_2130_ZI_484	1	-1.156	2.843	0.061	0.142	0.050	0.168	0.56	1.340	-0.13	0.238	-0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
10/15/2013	21:30	0917-179	0013_10_15_2130_ZI_484	1	-0.464	2.672	-0.029	0.158	0.344	0.117	0.635	1.10	-0.190	0.231	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
10/15/2013	21:30	0917-179	0013_10_15_2130_ZI_484	1	-0.407	2.356	-0.169	0.158	0.449	0.210	0.611	1.17	-0.123	0.270	-0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
10/15/2013	21:30	0917-179	0013_10_15_2130_ZI_484	1	1.15	2.721	0.121	0.181	0.150	0.198	0.626	1.15	0.082	0.257	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
10/15/2013	21:30	0917-179	0013_10_15_2130_ZI_484	1	4.703	2.768	0.080	0.134	-0.229	0.249	1.120	1.12	0.008	0.232	-0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
10/15/2013	21:30	0917-179	0013_10_15_2130_ZI_484	1	4.482	2.833	-0.150	0.167	-0.130	0.221	0.778	1.25	0.196	0.246	-0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
10/15/2013	21:30	0917-179	0013_10_15_2130_ZI_484	1	3.490	2.986	0.147	0.110	-0.110	0.114	1.114	1.10	0.04	0.253	-0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
10/15/2013	21:30	0917-179	0013_10_15_2130_ZI_484	1	0.132	1.919	0.194	0.139	0.213	0.124	1.332	1.25	0.174	0.264	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10/15/2013	21:30	0917-179	0013_10_15_2130_ZI_484	1	1.713	2.133	0.007	0.103	-0.000	0.122	0.43	1.89	-0.38	0.271	-0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
10/15/2013	21:30	0917-179	0013_10_15_2130_ZI_484	1	3.643	2.843	0.240	0.158	0.135	0.130	1.215	1.117	0.041	0.257	-0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
10/15/2013	21:30	0917-179	0013_10_15_2130_ZI_484	1	4.194	2.909	0.288	0.112	0.070	0.129	1.315	1.391	-0.05	0.233	-0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
10/15/2013	21:30	0917-179	0013_10_15_2130_ZI_484	1	0.378	2.864	0.030	0.154	0.110	0.230	0.899	1.280	0.047	0.255	-0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
10/15/2013	21:30	0917-179	0013_10_15_2130_ZI_484	1	4.250	3.143	0.177	0.155	0.134	0.132	1.001	1.284	0.111	0.264	-0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
10/15/2013	21:30	0917-179	0013_10_15_2130_ZI_484	1	0.007	3.071	0.266	0.150	-0.184	0.124	1.138	1.331	-0.14	0.250	-0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
10/15/2013	21:30	0917-179	0013_10_15_2130_ZI_484	1	3.132	2.616	-0.183	0.152	0.154	0.144	1.113	1.392	-0.188	0.251	-0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
10/15/2013	21:30	0917-179	0013_10_15_2130_ZI_484	1	0.34	2.924	0.094	0.139	-0.020	0.122	0.800	1.401	0.24	0.282	-0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
10/15/2013	21:30	0917-179	0013_10_15_2130_ZI_484	1	0.340	2.691	-0.161	0.149	0.090	0.192	0.678	1.414	0.30	0.292	-0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
10/15/2013	21:30	0917-179	0013_10_15_2130_ZI_484	1	2.293	3.008	0.100	0.155	0.090	0.176	0.816	1.414	0.158	0.276	-0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
10/15/2013	21:30	0917-179	0013_10_15_2130_ZI_484	1	1.476	2.714	0.319	0.142	0.129	0.121	1.405	1.287	-0.03	0.246	-0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
10/15/2013	21:30	0917-179	0013_10_15_2130_ZI_484	1	4.128	2.830	-0.183	0.154	0.170	0.128	1.330	1.376	0.30	0.215	-0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
10/15/2013	21:30	0917-179	0013_10_15_2130_ZI_484	1	1.18	2.943	0.190	0.142	0.090	0.124	0.568	1.458	0.158	0.274	-0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
10/15/2013	21:30	0917-179	0013_10_15_2130_ZI_484	1	3.590	2.761	-0.054	0.154	-0.159	0.130	1.083	1.344	-0.002	0.215	-0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
10/15/2013	21:30	0917-179	0013_10_15_2130_ZI_484	1	1.592	2.703	0.100	0.158	0.248	0.129	1.300	1.330	0.05	0.215	-0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
10/15/2013	21:30	0917-179	0013_10_15_2130_ZI_484	1	2.144	2.660	0.020	0.142	-0.090	0.120	1.251	1.359	-0.02	0.230	-0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
10/15/2013	21:30	0917-179	0013_10_15_2130_ZI_484	1	1.368	2.884	-0.138	0.147	-0.189	0.128	0.778	1.342	0.216	0.246	-0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
10/15/2013	21:30	0917-179	0013_10_15_2130_ZI_484	1	6.094	2.736	0.079	0.154	-0.100	0.124	0.982	1.388	0.214	0.231	-0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
10/15/2013	21:30	0917-179	0013_10_15_2130_ZI_484	1	-2.162	2.450	0.200	0.155	0.210	0.128	0.675	1.488	-0.19	0.262	-0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
10/15/2013	21:30	0917-179	0013_10_15_2130_ZI_484	1	0.500	2.593	-0.111	0.157	-0.133	0.124	0.720	1.597	0.13	0.246	-0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
10/15/2013	21:30	0917-179	0013_10_15_2130_ZI_484	1	2.699	2.727	-0.422	0.144	-0.305	0.123	1.234	1.675	0.06	0.241	-0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
10/15/2013	21:30	0917-179	0013_10_15_2130_ZI_484	1	2.402	2.824	0.241	0.154	0.090	0.124	0.700	1.424	0.017	0.237	-0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
10/15/2013	21:30	0917-179	0013_10_15_2130_ZI_484	1	5.382	2.450	-0.011	0.142	0.328	0.127	0.500	1.747	0.35	0.223	-0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
10/15/2013	21:30	0917-179	0013_10_15_2130_ZI_484	1	-10.165	2.409	-0.124	0.142	0.224	0.113	1.506	1.721	0.319	0.229	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
10/15/2013	21:30	0917-179	0013_10_15_2130_ZI_484	1	-0.605	2.597	0.168	0.149	0.236	0.127	1.405	1.780	-0.059	0.238	-0.010	0.000	0.000	0.000	0.000						

Location Dec. F Star/Step Instrument

Date	Method	Filename	OF	Acetarin (ppm)	SEC (ppm)	Formaldehyde (ppm)	SEC (ppm)	Methanol	SEC (ppm)	Phenol	SEC (ppm)	Propionaldehyde (ppm)	SEC (ppm)	Sulfur/Hexafluoride (ppm)	Label Tracer	Label 6-Analyte		
10/16/2013 15:50	0917-179	M013_10_16_1550_561	1	5.090	0.072	0.141	0.026	0.1950	0.869	1.768	0.222	0.210	-0.0090	0.0500	0.68	0.70	0.271	
10/16/2013 15:51	0917-179	M013_10_16_1551_574	1	4.890	0.454	0.174	0.221	0.0860	0.180	0.871	0.208	0.208	-0.0180	0.0500	1.18	0.68	0.251	
10/16/2013 15:51	0917-179	M013_10_16_1551_581	1	9.008	0.544	0.0420	0.137	0.0500	0.1900	0.815	1.752	0.217	0.217	-0.0090	0.0400	0.847	0.71	0.235
10/16/2013 15:51	0917-179	M013_10_16_1551_594	1	1.8970	0.548	-0.1640	0.132	-0.0530	0.1080	0.855	1.749	0.215	0.222	-0.0080	0.0800	-0.822	0.75	0.277
10/16/2013 15:51	0917-179	M013_10_16_1551_597	1	3.870	0.437	-0.2500	0.134	-0.074	0.110	0.887	1.737	0.224	0.224	-0.0090	0.0500	1.270	0.71	0.277
10/16/2013 15:51	0917-179	M013_10_16_1551_604	1	6.108	0.410	0.120	0.137	0.0500	0.105	1.066	1.765	0.243	0.221	-0.0090	0.0500	0.46	0.72	0.219
10/16/2013 15:51	0917-179	M013_10_16_1551_611	1	3.2410	0.517	-0.237	0.128	-0.1350	0.1000	1.180	1.748	0.04	0.217	-0.0010	0.0500	0.53	0.75	0.207
10/16/2013 15:51	0917-179	M013_10_16_1551_618	1	4.090	0.510	-0.029	0.134	-0.0800	0.122	0.950	1.719	0.169	0.222	0.0120	0.0400	0.142	0.73	0.269
10/16/2013 15:51	0917-179	M013_10_16_1551_625	1	1.28	0.486	0.252	0.137	-0.187	0.1060	0.515	1.801	0.23	0.217	-0.010	0.0500	0.384	0.70	0.249
10/16/2013 15:51	0917-179	M013_10_16_1551_632	1	3.679	0.540	-0.088	0.135	-0.052	0.1060	0.710	1.707	-0.133	0.225	-0.0110	0.0300	0.169	0.74	0.266
10/16/2013 15:51	0917-179	M013_10_16_1551_639	1	2.026	0.205	-0.115	0.129	0.128	0.1050	0.604	1.663	-0.482	0.200	0.0060	0.0500	-0.066	0.66	0.217
10/16/2013 15:51	0917-179	M013_10_16_1551_646	1	7.159	0.701	0.169	0.127	-0.155	0.100	0.810	1.659	0.141	0.221	-0.0060	0.0500	0.891	0.75	0.233
10/16/2013 15:51	0917-179	M013_10_16_1551_653	1	0.884	0.411	0.1760	0.135	0.161	0.1010	0.675	1.682	0.172	0.210	-0.0180	0.0500	-1.07	0.75	0.138
10/16/2013 15:51	0917-179	M013_10_16_1551_660	1	4.426	0.421	-0.117	0.127	0.0100	0.1020	0.670	1.643	0.101	0.215	-0.0120	0.0400	-0.132	0.73	0.187
10/16/2013 15:51	0917-179	M013_10_16_1551_667	1	0.214	0.559	0.230	0.131	-0.028	0.1050	0.254	1.646	-0.159	0.221	-0.010	0.0500	0.10	0.78	0.201
10/16/2013 15:51	0917-179	M013_10_16_1551_674	1	-0.187	0.285	0.148	0.136	0.180	0.1050	0.786	1.688	-0.210	0.219	-0.0050	0.0500	0.399	0.75	0.201
10/16/2013 15:51	0917-179	M013_10_16_1551_681	1	0.016	0.243	0.079	0.135	-0.187	0.101	1.044	1.823	0.411	0.217	-0.010	0.0500	0.967	0.70	0.193
10/16/2013 15:51	0917-179	M013_10_16_1551_688	1	2.228	0.265	0.0940	0.122	-0.148	0.1040	0.259	1.818	0.001	0.212	-0.010	0.0500	0.1580	0.69	0.277
10/16/2013 15:51	0917-179	M013_10_16_1551_695	1	0.6010	0.557	0.0620	0.130	0.233	0.0990	0.933	1.589	0.432	0.217	-0.0080	0.0500	0.59	0.71	0.211
10/16/2013 15:51	0917-179	M013_10_16_1551_702	1	3.600	0.609	0.170	0.128	0.1580	0.1090	0.833	1.650	-0.116	0.211	-0.0040	0.0400	0.114	0.78	0.228
10/16/2013 15:51	0917-179	M013_10_16_1551_709	1	4.582	0.510	0.001	0.125	0.220	0.1070	0.766	1.694	-0.017	0.218	-0.0010	0.0500	0.287	0.75	0.211
10/16/2013 15:51	0917-179	M013_10_16_1551_716	1	7.34	0.228	-0.374	0.134	-0.140	0.0950	0.548	1.613	-1.119	0.215	-0.0080	0.0500	0.14	0.68	0.271
10/16/2013 15:51	0917-179	M013_10_16_1551_723	1	4.45	0.271	0.217	0.137	0.239	0.1010	0.768	1.997	-0.029	0.219	0.0080	0.0500	1.56	0.72	0.232
10/16/2013 15:51	0917-179	M013_10_16_1551_730	1	6.883	0.618	0.185	0.148	-0.188	0.128	0.211	1.621	0.196	0.219	-0.010	0.0500	0.61	0.72	0.190
10/16/2013 15:51	0917-179	M013_10_16_1551_737	1	-0.011	0.273	0.083	0.141	0.331	0.113	0.874	1.453	-0.480	0.217	-0.0020	0.0700	0.49	0.770	0.049
10/16/2013 15:51	0917-179	M013_10_16_1551_744	1	5.308	0.492	0.490	0.137	0.244	0.127	0.780	1.731	0.213	0.218	-0.0020	0.0700	0.797	0.75	0.222
10/16/2013 15:51	0917-179	M013_10_16_1551_751	1	3.622	0.669	-0.040	0.160	-0.031	0.103	0.819	1.728	0.126	0.215	-0.010	0.0500	0.61	0.71	0.261
10/16/2013 15:51	0917-179	M013_10_16_1551_758	1	4.119	0.619	0.180	0.130	-0.151	0.122	0.620	1.600	0.045	0.200	-0.0090	0.0600	0.935	0.68	0.049
10/16/2013 15:51	0917-179	M013_10_16_1551_765	1	-0.547	0.602	0.159	0.140	-0.002	0.124	0.642	1.518	-0.120	0.220	-0.0080	0.0500	-0.590	0.65	0.094
10/16/2013 15:51	0917-179	M013_10_16_1551_772	1	-1.01	0.604	0.418	0.160	0.089	0.129	0.801	1.691	-0.09	0.210	-0.0010	0.0500	0.257	0.81	0.159
10/16/2013 15:51	0917-179	M013_10_16_1551_779	1	-4.856	0.0830	0.0830	0.158	-0.199	0.128	0.20	1.579	0.14	0.234	-0.0020	0.0700	-1.054	0.82	0.105
10/16/2013 15:51	0917-179	M013_10_16_1551_786	1	-1.069	0.277	-0.34	0.154	-0.122	0.125	0.720	1.583	0.40	0.246	-0.0020	0.0600	0.677	0.81	0.161
10/16/2013 15:51	0917-179	M013_10_16_1551_793	1	1.084	0.608	-0.23	0.132	0.220	0.130	0.913	1.631	0.020	0.212	-0.0010	0.0500	0.81	0.81	0.221
10/16/2013 15:51	0917-179	M013_10_16_1551_800	1	-1.645	0.675	0.1200	0.145	0.019	0.180	0.755	1.678	0.012	0.237	-0.0040	0.0600	1.18	0.79	0.186
10/16/2013 15:51	0917-179	M013_10_16_1551_807	1	0.50	0.273	0.088	0.140	-0.112	0.128	0.671	1.675	-0.232	0.241	-0.0040	0.0600	-0.395	0.60	0.21
10/16/2013 15:51	0917-179	M013_10_16_1551_814	1	-0.38	0.261	-1.51	0.140	-0.058	0.129	0.283	1.46	0.046	0.246	-0.0010	0.0500	0.84	0.81	0.221
10/16/2013 15:51	0917-179	M013_10_16_1551_821	1	-1.780	0.523	0.003	0.141	0.271	0.128	0.696	1.600	0.130	0.233	-0.0100	0.0600	0.51	0.78	0.218
10/16/2013 15:51	0917-179	M013_10_16_1551_828	1	0.610	0.307	0.130	0.144	-0.210	0.129	0.116	1.722	-0.1070	0.227	-0.0100	0.0600	-0.59	0.75	0.229
10/16/2013 15:51	0917-179	M013_10_16_1551_835	1	-4.49	0.283	-0.29	0.140	-0.240	0.129	0.526	1.623	-0.0060	0.0600	-0.0050	0.0600	1.196	0.73	0.275
10/16/2013 15:51	0917-179	M013_10_16_1551_842	1	-2.14	0.666	0.168	0.140	-0.0600	0.140	0.949	1.772	0.023	0.236	-0.0020	0.0600	0.532	0.79	0.232
10/16/2013 15:51	0917-179	M013_10_16_1551_849	1	5.170	0.274	0.28	0.137	-0.180	0.120	0.862	1.732	-0.387	0.214	-0.0030	0.0600	1.45	0.96	0.214
10/16/2013 15:51	0917-179	M013_10_16_1551_856	1	-0.9	0.283	-0.48	0.138	-0.201	0.128	0.698	1.738	-0.018	0.236	-0.0010	0.0600	0.685	0.82	0.247
10/16/2013 15:51	0917-179	M013_10_16_1551_863	1	-0.31	0.269	0.115	0.147	-0.080	0.120	0.687	1.789	-0.253	0.225	-0.010	0.0600	-0.002	0.77	0.246
10/16/2013 15:51	0917-179	M013_10_16_1551_870	1	2.06	0.686	0.289	0.144	0.0810	0.122	0.20	1.765	0.198	0.238	0.00	0.0600	0.398	0.81	0.228
10/16/2013 15:51	0917-179	M013_10_16_1551_877	1	2.450	0.396	-0.0970	0.129	-0.001	0.129	0.863	1.821	-0.020	0.246	-0.0010	0.0600	0.630	0.82	0.236
10/16/2013 15:51	0917-179	M013_10_16_1551_884	1	-1.643	0.276	0.174	0.136	-0.188	0.131	0.735	1.747	0.212	0.249	-0.0020	0.0500	-0.730	0.78	0.238
10/16/2013 15:51	0917-179	M013_10_16_1551_891	1	6.8160	0.666	-0.1970	0.147	-0.111	0.129	0.813	1.797	-0.348	0.238	-0.0010	0.0600	0.326	0.60	0.275
10/16/2013 15:51	0917-179	M013_10_16_1551_898	1	4.132	0.265	-0.0970	0.129	-0.020	0.129	0.610	1.823	0.001	0.236	-0.0010	0.0500	0.215	0.75	0.215
10/16/2013 15:51	0917-179	M013_10_16_1551_905	1	-1.701	0.652	0.068	0.140	-0.297	0.123	0.760	1.835	0.015	0.232	-0.0010	0.0600	-1.427	0.77	0.266
10/16/2013 15:51	0917-179	M013_10_16_1551_912	1	4.05	0.530	0.183	0.133	-0.103	0.123	1.004	1.789	0.189	0.231	-0.0060	0.0600	-1.5820	0.74	0.235
10/16/2013 15:51	0917-179	M013_10_16_1551_919	1	-1.177	0.640	-0.0970	0.140	-0.020	0.116	0.818								

Table with columns: Location, Disc, #, Start/Stop, Instrument, Date, Method, Filenames, DSP Acquire (ppm), SEC (ppm), Label 1-Analyte, Label 2-Analyte, Label 3-Analyte, Label 4-Analyte, Label 5-Analyte, Label 6-Analyte, Label 7-Analyte, Label 8-Analyte. The table contains a dense grid of numerical data for various analytical samples.

Location	Disc.	#	Start/Stop	Instrument	Label	1-Analyte	Label	2-Analyte	Label	3-Analyte	Sp/Hz	Label	4-Analyte	Label	5-Analyte	Label	6-Analyte
Date	Method	Filename	OSF Acroline (ppm)	SEC (ppm)	Formaldehyde (ppm)	SEC (ppm)	Methanol (ppm)	SEC (ppm)	Pheno (ppm)	SEC (ppm)	Propionaldehyde (ppm)	SEC (ppm)	Sulfur Hexafluoride (ppm)	acetaldehyde (ppm)	SEC (ppm)	pinene (ppm)	
10/14/2013 15:02	0817-173	10_14_1502_23_155	-2.580	1.840	0.985	0.609	2.95	0.266	0.19	1.95	-0.475	0.154	0.00800	0.01300	1.294	0.844	0.724
10/14/2013 15:03	0817-173	10_14_1503_23_200	-2.870	1.840	0.985	0.609	2.99	0.266	0.15	1.86	-0.811	0.149	0.00800	0.01300	-0.28	0.675	6.764
10/14/2013 15:07	0817-173	10_14_1507_24_733	-1.840	1.840	0.778	0.084	2.63	0.233	0.10	1.96	-0.780	0.149	0.00800	0.01300	-0.74	0.485	6.599
10/14/2013 15:08	0817-173	10_14_1508_24_904	-1.880	1.840	0.748	0.067	2.76	0.250	0.25	1.97	-0.831	0.143	0.00500	0.01300	-0.844	0.448	5.529
10/14/2013 15:09	0817-173	10_14_1509_24_918	-2.565	1.854	0.78	0.091	2.61	0.254	0.19	1.88	-0.647	0.147	0.00800	0.01300	-1.07	0.408	6.517
10/14/2013 15:10	0817-173	10_14_1510_24_964	-0.516	1.824	0.758	0.088	3.10	0.272	0.07	1.84	-0.90700	0.144	0.00800	0.01300	-0.17	0.470	8.066
10/14/2013 15:11	0817-173	10_14_1511_27_714	-2.581	1.849	0.610	0.084	3.01	0.284	0.00	1.82	-0.862	0.156	0.00800	0.01300	-0.201	0.486	6.883
10/14/2013 15:12	0817-173	10_14_1512_28_864	-3.850	1.876	0.551	0.086	2.98	0.272	0.04	1.95	-0.910	0.151	0.00800	0.01300	-0.503	0.486	6.883
10/14/2013 15:13	0817-173	10_14_1513_28_184	-1.860	1.809	0.807	0.090	2.99	0.260	0.00	1.84	-0.837	0.151	0.00800	0.01300	-0.84	0.486	6.883
10/14/2013 15:14	0817-173	10_14_1514_28_304	-1.722	1.708	0.634	0.087	3.02	0.253	0.18	1.95	-0.618	0.152	0.01000	0.01300	-1.302	0.488	6.031
10/14/2013 15:15	0817-173	10_14_1515_28_374	-1.860	1.809	0.807	0.090	2.99	0.260	0.00	1.84	-0.837	0.151	0.00800	0.01300	-0.84	0.486	6.883
10/14/2013 15:16	0817-173	10_14_1516_28_454	-2.248	1.854	0.742	0.081	3.17	0.278	0.11	1.95	-0.712	0.147	0.00800	0.01300	-1.00	0.479	7.000
10/14/2013 15:17	0817-173	10_14_1517_29_154	-4.900	1.833	0.671	0.081	3.04	0.279	0.22	1.94	-0.840	0.153	0.00200	0.01300	-0.53	0.481	7.069
10/14/2013 15:18	0817-173	10_14_1518_29_274	-1.708	1.879	0.558	0.088	3.20	0.265	0.10	1.94	-0.823	0.150	0.00800	0.01300	-0.88	0.483	7.137
10/14/2013 15:19	0817-173	10_14_1519_30_314	-1.190	1.871	0.564	0.083	3.28	0.300	0.19	1.84	-0.720	0.154	0.00800	0.01300	-1.482	0.481	7.132
10/14/2013 15:20	0817-173	10_14_1520_30_383	-3.777	1.810	0.809	0.090	3.07	0.320	0.30	1.85	-0.910	0.152	0.00000	0.01300	-1.01	0.485	6.973
10/14/2013 15:21	0817-173	10_14_1521_30_453	-3.580	1.875	0.650	0.086	2.98	0.277	0.04	1.95	-0.718	0.151	0.00800	0.01300	-0.28	0.486	6.883
10/14/2013 15:22	0817-173	10_14_1522_30_523	-1.861	1.642	0.752	0.080	2.96	0.266	0.07	1.86	-0.820	0.148	0.00800	0.01300	-0.53	0.486	6.883
10/14/2013 15:23	0817-173	10_14_1523_30_593	-2.248	1.854	0.742	0.081	3.17	0.278	0.11	1.95	-0.712	0.147	0.00800	0.01300	-1.00	0.479	7.000
10/14/2013 15:24	0817-173	10_14_1524_30_663	-4.900	1.833	0.671	0.081	3.04	0.279	0.22	1.94	-0.840	0.153	0.00200	0.01300	-0.53	0.481	7.069
10/14/2013 15:25	0817-173	10_14_1525_30_733	-1.708	1.879	0.558	0.088	3.20	0.265	0.10	1.94	-0.823	0.150	0.00800	0.01300	-0.88	0.483	7.137
10/14/2013 15:26	0817-173	10_14_1526_30_803	-1.190	1.871	0.564	0.083	3.28	0.300	0.19	1.84	-0.720	0.154	0.00800	0.01300	-1.482	0.481	7.132
10/14/2013 15:27	0817-173	10_14_1527_30_873	-3.777	1.810	0.809	0.090	3.07	0.320	0.30	1.85	-0.910	0.152	0.00000	0.01300	-1.01	0.485	6.973
10/14/2013 15:28	0817-173	10_14_1528_30_943	-3.580	1.875	0.650	0.086	2.98	0.277	0.04	1.95	-0.718	0.151	0.00800	0.01300	-0.28	0.486	6.883
10/14/2013 15:29	0817-173	10_14_1529_31_013	-1.861	1.642	0.752	0.080	2.96	0.266	0.07	1.86	-0.820	0.148	0.00800	0.01300	-0.53	0.486	6.883
10/14/2013 15:30	0817-173	10_14_1530_31_083	-2.248	1.854	0.742	0.081	3.17	0.278	0.11	1.95	-0.712	0.147	0.00800	0.01300	-1.00	0.479	7.000
10/14/2013 15:31	0817-173	10_14_1531_31_153	-4.900	1.833	0.671	0.081	3.04	0.279	0.22	1.94	-0.840	0.153	0.00200	0.01300	-0.53	0.481	7.069
10/14/2013 15:32	0817-173	10_14_1532_31_223	-1.708	1.879	0.558	0.088	3.20	0.265	0.10	1.94	-0.823	0.150	0.00800	0.01300	-0.88	0.483	7.137
10/14/2013 15:33	0817-173	10_14_1533_31_293	-1.190	1.871	0.564	0.083	3.28	0.300	0.19	1.84	-0.720	0.154	0.00800	0.01300	-1.482	0.481	7.132
10/14/2013 15:34	0817-173	10_14_1534_31_363	-3.777	1.810	0.809	0.090	3.07	0.320	0.30	1.85	-0.910	0.152	0.00000	0.01300	-1.01	0.485	6.973
10/14/2013 15:35	0817-173	10_14_1535_31_433	-3.580	1.875	0.650	0.086	2.98	0.277	0.04	1.95	-0.718	0.151	0.00800	0.01300	-0.28	0.486	6.883
10/14/2013 15:36	0817-173	10_14_1536_31_503	-1.861	1.642	0.752	0.080	2.96	0.266	0.07	1.86	-0.820	0.148	0.00800	0.01300	-0.53	0.486	6.883
10/14/2013 15:37	0817-173	10_14_1537_31_573	-2.248	1.854	0.742	0.081	3.17	0.278	0.11	1.95	-0.712	0.147	0.00800	0.01300	-1.00	0.479	7.000
10/14/2013 15:38	0817-173	10_14_1538_31_643	-4.900	1.833	0.671	0.081	3.04	0.279	0.22	1.94	-0.840	0.153	0.00200	0.01300	-0.53	0.481	7.069
10/14/2013 15:39	0817-173	10_14_1539_31_713	-1.708	1.879	0.558	0.088	3.20	0.265	0.10	1.94	-0.823	0.150	0.00800	0.01300	-0.88	0.483	7.137
10/14/2013 15:40	0817-173	10_14_1540_31_783	-1.190	1.871	0.564	0.083	3.28	0.300	0.19	1.84	-0.720	0.154	0.00800	0.01300	-1.482	0.481	7.132
10/14/2013 15:41	0817-173	10_14_1541_31_853	-3.777	1.810	0.809	0.090	3.07	0.320	0.30	1.85	-0.910	0.152	0.00000	0.01300	-1.01	0.485	6.973
10/14/2013 15:42	0817-173	10_14_1542_31_923	-3.580	1.875	0.650	0.086	2.98	0.277	0.04	1.95	-0.718	0.151	0.00800	0.01300	-0.28	0.486	6.883
10/14/2013 15:43	0817-173	10_14_1543_31_993	-1.861	1.642	0.752	0.080	2.96	0.266	0.07	1.86	-0.820	0.148	0.00800	0.01300	-0.53	0.486	6.883
10/14/2013 15:44	0817-173	10_14_1544_32_063	-2.248	1.854	0.742	0.081	3.17	0.278	0.11	1.95	-0.712	0.147	0.00800	0.01300	-1.00	0.479	7.000
10/14/2013 15:45	0817-173	10_14_1545_32_133	-4.900	1.833	0.671	0.081	3.04	0.279	0.22	1.94	-0.840	0.153	0.00200	0.01300	-0.53	0.481	7.069
10/14/2013 15:46	0817-173	10_14_1546_32_203	-1.708	1.879	0.558	0.088	3.20	0.265	0.10	1.94	-0.823	0.150	0.00800	0.01300	-0.88	0.483	7.137
10/14/2013 15:47	0817-173	10_14_1547_32_273	-1.190	1.871	0.564	0.083	3.28	0.300	0.19	1.84	-0.720	0.154	0.00800	0.01300	-1.482	0.481	7.132
10/14/2013 15:48	0817-173	10_14_1548_32_343	-3.777	1.810	0.809	0.090	3.07	0.320	0.30	1.85	-0.910	0.152	0.00000	0.01300	-1.01	0.485	6.973
10/14/2013 15:49	0817-173	10_14_1549_32_413	-3.580	1.875	0.650	0.086	2.98	0.277	0.04	1.95	-0.718	0.151	0.00800	0.01300	-0.28	0.486	6.883
10/14/2013 15:50	0817-173	10_14_1550_32_483	-1.861	1.642	0.752	0.080	2.96	0.266	0.07	1.86	-0.820	0.148	0.00800	0.01300	-0.53	0.486	6.883
10/14/2013 15:51	0817-173	10_14_1551_32_553	-2.248	1.854	0.742	0.081	3.17	0.278	0.11	1.95	-0.712	0.147	0.00800	0.01300	-1.00	0.479	7.000
10/14/2013 15:52	0817-173	10_14_1552_32_623	-4.900	1.833	0.671	0.081	3.04	0.279	0.22	1.94	-0.840	0.153	0.00200	0.01300	-0.53	0.481	7.069
10/14/2013 15:53	0817-173	10_14_1553_32_693	-1.708	1.879	0.558	0.088	3.20	0.265	0.10	1.94	-0.823	0.150	0.00800	0.01300	-0.88	0.483	7.137
10/14/2013 15:54	0817-173	10_14_1554_32_763	-1.190	1.871	0.564	0.083	3.28	0.300	0.19	1.84	-0.720	0.154	0.00800	0.01300	-1.482	0.481	7.132
10/14/2013 15:55	0817-173	10_14_1555_32_833	-3.777	1.810	0.809	0.090	3.07	0.320	0.30	1.85	-0.910	0.152	0.00000	0.01300	-1.01	0.485	6.973
10/14/2013 15:56	0817-173	10_14_1556_32_903	-3.580	1.875	0.650	0.086	2.98	0.277	0.04	1.95	-0.718	0.151	0.00800	0.01300	-0.28	0.486	6.883
10/14/2013 15:57	0817-173	10_14_1557_32_973	-1.861	1.642	0.752	0.080	2.96	0.266	0.07	1.86	-0.820	0.148	0.00800	0.01300	-0.53	0.486	6.883
10/14/2013 15:58	0817-173	10_14_1558_32_043	-2.248	1.854	0.742	0.081	3.17	0.278	0.11	1.95	-0.712	0.147	0.00800	0.01300	-1.00	0.479	7.000
10/14/2013 15:59	0817-173	10_14_1559_32_113	-4.900	1.833	0.671	0.081	3.04	0.279	0.22	1.94	-0.840	0.153	0.00200	0.01300	-0.53	0.481	7.069
10/14/2013 15:00	0817-173	10_14_1560_32_183	-1.708	1.879	0.558	0.088	3.20	0.265	0.10	1.94	-0.823	0.150	0.00800	0.01300	-0.88	0.483	7.137
10/14/2013 15:01	0817-173	10_14_1561_32_253	-1.190	1.871	0.564	0.083	3.28	0.300	0.19	1.84	-0.720	0.154	0.00800	0			

Location	UIC	#	Start/Stop	Instrument	Label 1-Analyte	Label 2-Analyte	Label 3-Analyte/DiPa	Label 4-Analyte	Label 5-Analyte	Label Tracer	Label 6-Analyte									
Date	Method	Filename	DFSP Acrolen (ppm)	DFSP Acrolen (ppm)	SEC (ppm)	Formaldehyde (ppm)	SEC (ppm)	Methanol (ppm)	SEC (ppm)	Phenol (ppm)	SEC (ppm)	Propionaldehyde (ppm)	SEC (ppm)	Sulfur Sulfur_hexafluoride (ppm)	SEC (ppm)	Kultr_hexafluoride (ppm)	SEC (ppm)	acroleindehyde (ppm)	SEC (ppm)	pinene (ppm)
10/14/2013 1847	0917-173	10_14_1947_27_905	9.338	3.433	0.023	0.187	-0.383	0.141	0.553	0.53	0.59	0.311	0.17	-0.180	0.0000	0.0000	0.0000	1.06	1.07	-0.975
10/14/2013 1847	0917-173	10_14_1947_26_085	21.200	3.587	0.466	2.180	-0.713	0.140	1.012	0.564	0.756	0.210	0.000	-0.240	0.0000	0.0000	2.56	1.07	-0.511	
10/14/2013 1847	0917-173	10_14_1947_40_385	8.513	3.308	0.092	0.185	0.227	0.150	0.614	0.59	0.308	0.306	0.140	-0.0400	0.0000	0.0000	1.9030	1.00	0.558	
10/14/2013 1847	0917-173	10_14_1947_46_545	11.356	3.728	0.199	0.183	-0.471	0.138	1.003	0.54	0.592	0.306	0.106	-0.0700	0.0000	0.0000	1.215	1.00	0.366	
10/14/2013 1847	0917-173	10_14_1947_25_035	3.62	3.207	-0.255	0.176	0.26000	0.145	0.805	0.74	0.315	0.281	-0.0100	0.0000	0.0000	1.14	0.98	-0.136		
10/14/2013 1847	0917-173	10_14_1947_28_785	-12.781	3.189	-0.200	0.198	0.402	0.142	0.960	0.63	0.560	0.314	-0.0210	0.0000	0.0000	1.114	1.01	-0.377		
10/14/2013 1848	0917-173	10_14_1948_26_005	1.640	3.388	-0.299	0.180	0.074	0.133	0.854	0.81	0.18	0.193	0.02100	0.0000	0.0000	0.230	0.98	0.216		
10/14/2013 1848	0917-173	10_14_1948_11_245	4.9270	3.653	-0.333	0.179	-0.1100	0.131	0.916	0.98	0.286	0.186	-0.01300	0.0000	0.0000	-1.18	0.95	-0.223		
10/14/2013 1848	0917-173	10_14_1948_27_645	4.403	3.327	-0.075	0.172	-0.180	0.143	0.847	0.93	0.484	0.192	0.02800	0.0000	0.0000	1.42	0.99	0.143		
10/14/2013 1848	0917-173	10_14_1948_23_505	7.51	3.308	0.03700	0.171	-0.186	0.132	0.428	0.95	0.028	0.186	0.00800	0.0000	0.0000	-1.461	0.93	-0.165		
10/14/2013 1848	0917-173	10_14_1948_26_945	4.403	3.321	-0.132	0.172	-0.1430	0.141	0.543	0.99	0.114	0.185	0.01100	0.0000	0.0000	-0.53	0.97	-0.138		
10/14/2013 1848	0917-173	10_14_1948_25_965	4.017	3.899	0.190	0.177	-0.180	0.140	0.56	1.04	0.202	0.186	-0.02000	0.0000	0.0000	0.64	0.94	0.264		
10/14/2013 1848	0917-173	10_14_1948_42_675	7.082	4.04	0.046	0.178	-0.0900	0.138	0.828	1.04	0.31	0.196	-0.06000	0.0000	0.0000	-0.070	1.00	-0.075		
10/14/2013 1848	0917-173	10_14_1948_26_245	-0.974	3.869	0.077	0.178	-0.2380	0.119	1.001	1.00	0.38	0.194	-0.01500	0.0000	0.0000	4.24	0.95	0.084		
10/14/2013 1848	0917-173	10_14_1948_24_385	9.999	3.923	-0.141	0.174	-0.1010	0.142	1.053	1.09	0.288	0.183	-0.02000	0.0000	0.0000	0.237	0.99	0.284		
10/14/2013 1849	0917-173	10_14_1949_20_595	-14.832	3.383	-0.140	0.179	-0.0110	0.133	1.008	1.03	-0.19	0.198	-0.05000	0.0000	0.0000	-0.589	0.99	-0.318		
10/14/2013 1849	0917-173	10_14_1949_26_775	-4.764	3.154	-0.159	0.186	-0.271	0.141	0.797	1.07	-0.346	0.279	-0.01100	0.0000	0.0000	-1.990	0.95	-0.095		
10/14/2013 1849	0917-173	10_14_1949_11_505	3.182	3.225	0.125	0.175	-0.13800	0.142	1.012	1.19	-0.059	0.187	-0.01700	0.0000	0.0000	-1.790	0.97	-0.44		
10/14/2013 1849	0917-173	10_14_1949_29_285	-9.759	3.003	-0.064	0.179	-0.222	0.135	1.395	1.20	0.137	0.182	0.02500	0.0000	0.0000	-1.759	0.98	-0.004		
10/14/2013 1849	0917-173	10_14_1949_25_385	9.820	3.010	0.039	0.176	-0.141	0.138	0.16	1.15	-0.305	0.290	-0.07000	0.0000	0.0000	0.81	0.97	0.091		
10/14/2013 1849	0917-173	10_14_1949_23_485	2.14	2.983	0.180	0.184	-0.196	0.141	1.246	1.25	-0.137	0.271	-0.02800	0.0000	0.0000	0.85	0.91	0.219		
10/14/2013 1849	0917-173	10_14_1949_37_715	0.988	3.010	0.157	0.175	-0.150	0.137	1.113	1.33	-0.427	0.182	-0.02800	0.0000	0.0000	-1.240	0.95	-0.14		
10/14/2013 1849	0917-173	10_14_1949_45_905	9.102	2.965	-0.014	0.159	-0.099	0.138	0.644	1.38	0.146	0.282	-0.01600	0.0000	0.0000	1.10	0.87	0.066		
10/14/2013 1849	0917-173	10_14_1949_30_085	1.572	2.675	0.033	0.180	-0.136	0.143	0.813	1.43	0.13	0.283	-0.01000	0.0000	0.0000	2.81	0.88	0.129		
10/14/2013 1849	0917-173	10_14_1949_38_175	-5.534	3.121	-0.04000	0.162	0.040	0.141	1.089	1.57	-0.618	0.279	-0.00400	0.0000	0.0000	-1.17	0.91	0.217		
10/14/2013 1849	0917-173	10_14_1949_26_385	6.1020	3.014	-0.192	0.166	0.0870	0.138	0.112	1.576	0.381	0.283	-0.03000	0.0000	0.0000	-0.919	0.90	0.111		
10/14/2013 1849	0917-173	10_14_1949_24_985	4.741	3.816	0.070	0.180	-0.0909	0.132	1.139	1.58	0.014	0.219	-0.02000	0.0000	0.0000	1.703	0.88	0.214		
10/14/2013 1850	0917-173	10_14_1950_14_785	2.82	2.880	-0.003	0.152	-0.1350	0.133	1.070	1.60	-0.187	0.248	0.01000	0.0000	0.0000	-0.519	0.94	0.219		
10/14/2013 1850	0917-173	10_14_1950_20_885	-0.14	2.768	0.014	0.161	0.05000	0.141	0.819	1.640	0.495	0.255	-0.01800	0.0000	0.0000	-0.482	0.81	0.205		
10/14/2013 1850	0917-173	10_14_1950_21_315	-4.119	3.107	-0.141	0.169	-0.213	0.133	1.019	1.61	0.311	0.270	-0.01000	0.0000	0.0000	-0.737	0.93	0.273		
10/14/2013 1850	0917-173	10_14_1950_31_235	1.48	2.968	-0.418	0.162	-0.230	0.133	0.479	1.541	-0.318	0.254	-0.01900	0.0000	0.0000	-0.988	0.66	0.113		
10/14/2013 1850	0917-173	10_14_1950_38_435	-8.509	2.783	0.016	0.172	0.123	0.131	1.011	1.557	0.117	0.273	-0.01100	0.0000	0.0000	-1.605	0.90	0.21		
10/14/2013 1850	0917-173	10_14_1950_28_585	0.016	2.807	-0.017	0.160	-0.309	0.131	1.178	1.61	-0.127	0.281	-0.00700	0.0000	0.0000	-0.370	0.90	0.165		
10/14/2013 1850	0917-173	10_14_1950_51_835	-3.04	3.185	-0.091	0.164	-0.130	0.144	0.911	1.555	0.0370	0.274	-0.00700	0.0000	0.0000	1.010	0.90	0.255		
10/14/2013 1850	0917-173	10_14_1950_28_585	-1.018	2.873	-0.010	0.164	-0.238	0.143	0.988	1.57	-0.06	0.256	-0.02100	0.0000	0.0000	-1.190	0.88	0.201		
10/14/2013 1851	0917-173	10_14_1951_28_645	8.015	3.049	0.050	0.167	-0.118	0.140	1.249	1.565	0.167	0.274	-0.00500	0.0000	0.0000	0.658	0.93	0.259		
10/14/2013 1851	0917-173	10_14_1951_21_245	4.81	2.993	0.010	0.157	-0.110	0.139	0.137	1.696	0.317	0.262	-0.02100	0.0000	0.0000	0.901	0.90	0.241		
10/14/2013 1851	0917-173	10_14_1951_16_435	3.297	2.854	0.162	0.157	0.030	0.142	1.217	1.605	0.402	0.237	-0.00800	0.0000	0.0000	0.058	0.90	0.286		
10/14/2013 1851	0917-173	10_14_1951_28_645	8.015	3.049	0.050	0.167	-0.118	0.140	1.249	1.565	0.167	0.274	-0.00500	0.0000	0.0000	0.658	0.93	0.259		
10/14/2013 1851	0917-173	10_14_1951_28_645	8.015	3.049	0.050	0.167	-0.118	0.140	1.249	1.565	0.167	0.274	-0.00500	0.0000	0.0000	0.658	0.93	0.259		
10/14/2013 1851	0917-173	10_14_1951_30_315	8.965	1.414	-0.00400	0.155	-0.140	0.143	0.622	1.91	-0.196	0.248	-0.01300	0.0000	0.0000	-1.15	0.82	0.175		
10/14/2013 1851	0917-173	10_14_1951_24_145	8.256	2.947	0.130	0.160	-0.110	0.134	0.999	1.69	0.06	0.260	-0.01000	0.0000	0.0000	-0.417	0.87	0.254		
10/14/2013 1851	0917-173	10_14_1951_24_145	8.256	2.947	0.130	0.160	-0.110	0.134	0.999	1.69	0.06	0.260	-0.01000	0.0000	0.0000	-0.417	0.87	0.254		
10/14/2013 1851	0917-173	10_14_1951_53_595	8.105	2.994	0.030	0.151	-0.069	0.139	0.866	1.62	0.066	0.249	-0.02100	0.0000	0.0000	-0.69	0.82	0.289		
10/14/2013 1851	0917-173	10_14_1951_53_595	8.105	2.994	0.030	0.151	-0.069	0.139	0.866	1.62	0.066	0.249	-0.02100	0.0000	0.0000	-0.69	0.82	0.289		
10/14/2013 1851	0917-173	10_14_1951_53_595	8.105	2.994	0.030	0.151	-0.069	0.139	0.866	1.62	0.066	0.249	-0.02100	0.0000	0.0000	-0.69	0.82	0.289		
10/14/2013 1851	0917-173	10_14_1951_53_595	8.105	2.994	0.030	0.151	-0.069	0.139	0.866	1.62	0.066	0.249	-0.02100	0.0000	0.0000	-0.69	0.82	0.289		
10/14/2013 1851	0917-173	10_14_1951_53_595	8.105	2.994	0.030	0.151	-0.069	0.139	0.866	1.62	0.066	0.249	-0.02100	0.0000	0.0000	-0.69	0.82	0.289		
10/14/2013 1851	0917-173	10_14_1951_53_595	8.105	2.994	0.030	0.151	-0.069	0.139	0.866	1.62	0.066	0.249	-0.02100	0.0000	0.0000	-0.69	0.82	0.289		
10/																				

Location Disc. # Start/Stop Instrument Label 1-Analyte Label 2-Analyte Label 3-Analyte/Splice Label 4-Analyte Label 5-Analyte Label 6-Analyte Label 7-Analyte

Date Method Reference DU/Arcon (ppm) SEC (ppm) Formaldehyde (ppm) SEC (ppm) Merohard (ppm) SEC (ppm) Phenol (ppm) SEC (ppm) Propionaldehyde (ppm) SEC (ppm) Sulfur Hexafluoride (ppm) SEC (ppm) acetaldehyde (ppm) SEC (ppm) none (pp)

Table containing 15 columns of data (Date, Method, Reference, DU/Arcon, SEC, Formaldehyde, Merohard, Phenol, Propionaldehyde, Sulfur Hexafluoride, acetaldehyde, none) and 15 rows of numerical data.

Location	Occ.	F	Start/Stop	Instrument	Label 1-Analyte	Label 2-Analyte	Label 3-Analyte/Spike	Label 4-Analyte	Label 5-Analyte	Label Tracer	Label 6-Analyte	Label 7-Analyte	Label 8-Analyte	Label 9-Analyte	Label 10-Analyte
Date	Method	File Name	OSF Acetrolen (ppm)	SEC (ppm)	Formaldehyde (ppm)	SEC (ppm)	Metrololol (ppm)	SOC (ppm)	Phenol (ppm)	Propranololololol (ppm)	SOC (ppm)	Sulfur_hexafluoride (ppm)	SEC (ppm)	SEC (ppm)	SEC (ppm)
10/15/2013 21:10	0917-173	10_15_2130_23_494	1.883	1.561	3.126	3.126	0.143	0.080	0.124	0.020	0.224	0.000	0.000	0.000	0.000
10/15/2013 21:10	0917-173	10_15_2130_24_054	4.39	2.654	0.023	0.152	0.000	0.115	0.44	1.839	0.446	0.246	-0.200	0.700	2.77
10/15/2013 21:10	0917-173	10_15_2130_24_894	2.116	1.836	-0.081	0.148	0.332	0.118	0.856	1.794	0.18	0.449	-0.260	0.000	-3.461
10/15/2013 21:10	0917-173	10_15_2130_25_054	0.545	2.626	-0.048	0.151	-0.200	0.138	0.29	1.728	0.200	0.251	-0.160	0.000	-2.772
10/15/2013 21:10	0917-173	10_15_2130_25_144	2.950	2.953	0.000	0.158	-0.084	0.110	1.077	1.623	0.187	0.249	-0.140	0.000	-0.152
10/15/2013 21:10	0917-173	10_15_2130_25_184	2.91	2.952	0.064	0.158	-0.228	0.129	0.913	1.571	0.400	0.261	-0.180	0.000	0.04
10/15/2013 21:10	0917-173	10_15_2130_25_554	0.110	2.859	0.003	0.157	0.000	0.119	0.569	1.476	0.046	0.259	-0.13	0.000	0.185
10/15/2013 21:11	0917-173	10_15_2130_26_094	1.415	2.948	0.066	0.147	0.020	0.31	0.51	1.889	0.000	0.140	-0.000	0.700	-0.014
10/15/2013 21:11	0917-173	10_15_2130_26_194	0.481	2.770	-0.020	0.164	-0.357	0.21	0.679	1.34	-0.146	0.300	-0.100	0.000	-0.377
10/15/2013 21:11	0917-173	10_15_2130_26_294	0.610	2.725	0.175	0.164	-0.128	0.133	0.24	1.21	-0.355	0.246	-0.000	0.000	-0.18
10/15/2013 21:11	0917-173	10_15_2130_26_394	2.13	2.861	0.13	0.167	0.100	0.11	1.004	1.19	0.000	0.260	-0.000	0.000	-0.21
10/15/2013 21:11	0917-173	10_15_2130_26_434	4.876	2.869	-0.000	0.160	0.237	0.133	1.561	1.16	0.071	0.261	-0.000	0.000	2.1
10/15/2013 21:11	0917-173	10_15_2130_26_724	1.776	2.500	0.038	0.169	-0.361	0.135	0.45	1.11	-0.5	0.248	-0.000	0.000	-0.17
10/15/2013 21:11	0917-173	10_15_2130_26_884	3.611	3.066	-0.105	0.152	0.100	0.139	1.124	1.25	0.04	0.243	-0.000	0.200	-2.01
10/15/2013 21:11	0917-173	10_15_2130_26_914	0.137	3.129	-0.105	0.155	-0.221	0.128	1.208	1.30	0.204	0.274	-0.100	0.700	2.048
10/15/2013 21:11	0917-173	10_15_2130_26_924	4.79	2.997	0.051	0.173	-0.212	0.128	0.966	1.29	0.413	0.278	-0.110	0.700	-0.64
10/15/2013 21:12	0917-173	10_15_2130_27_094	3.777	2.907	0.210	0.182	-0.106	0.135	1.270	1.265	0.002	0.267	-0.110	0.700	1.47
10/15/2013 21:12	0917-173	10_15_2130_27_194	4.555	3.016	0.309	0.157	-0.070	0.134	1.239	1.442	0.05	0.262	-0.080	0.700	-1.49
10/15/2013 21:12	0917-173	10_15_2130_27_274	-0.911	2.989	0.083	0.159	-0.130	0.129	0.939	1.381	-0.248	0.265	-0.110	0.700	-0.84
10/15/2013 21:12	0917-173	10_15_2130_27_344	4.468	2.528	0.183	0.162	0.128	0.137	1.215	1.436	0.11	0.274	-0.010	0.700	2.47
10/15/2013 21:12	0917-173	10_15_2130_27_364	0.007	3.184	0.175	0.155	0.201	0.129	1.170	1.401	0.110	0.264	-0.080	0.700	-2.19
10/15/2013 21:12	0917-173	10_15_2130_27_384	1.367	3.024	0.021	0.157	0.204	0.131	1.165	1.443	0.209	0.261	-0.110	0.700	-1.79
10/15/2013 21:12	0917-173	10_15_2130_27_444	0.98	2.772	-0.187	0.158	-0.103	0.129	0.869	1.419	0.49	0.257	-0.020	0.700	-1.29
10/15/2013 21:12	0917-173	10_15_2130_27_464	4.860	2.997	0.098	0.165	-0.080	0.127	0.703	1.453	0.25	0.271	-0.010	0.700	-1.37
10/15/2013 21:12	0917-173	10_15_2130_27_484	4.17	3.119	-0.03	0.155	-0.070	0.137	0.376	1.466	0.20	0.261	-0.110	0.700	-1.16
10/15/2013 21:12	0917-173	10_15_2130_27_504	1.883	3.081	0.045	0.161	-0.170	0.134	0.866	1.404	0.247	0.267	-0.010	0.700	1.29
10/15/2013 21:12	0917-173	10_15_2130_27_524	2.847	2.844	0.141	0.168	0.154	0.122	1.439	1.335	0.01	0.246	-0.030	0.700	-1.45
10/15/2013 21:12	0917-173	10_15_2130_27_564	4.414	2.934	-0.190	0.160	-0.280	0.122	1.379	1.426	-0.11	0.246	-0.010	0.700	0.86
10/15/2013 21:12	0917-173	10_15_2130_27_584	3.18	3.155	0.207	0.156	-0.080	0.133	1.444	1.368	0.009	0.248	-0.110	0.700	-0.88
10/15/2013 21:12	0917-173	10_15_2130_27_624	2.882	2.882	-0.063	0.160	0.158	0.134	1.131	1.394	0.313	0.261	-0.110	0.700	2.534
10/15/2013 21:12	0917-173	10_15_2130_27_644	3.890	2.802	0.048	0.164	-0.361	0.134	0.747	1.399	0.03	0.219	-0.140	0.700	0.23
10/15/2013 21:12	0917-173	10_15_2130_27_664	0.533	2.888	0.204	0.158	-0.030	0.133	0.847	1.403	0.217	0.263	-0.080	0.700	-0.24
10/15/2013 21:12	0917-173	10_15_2130_27_684	1.461	2.969	0.140	0.156	-0.198	0.131	0.999	1.31	0.299	0.247	-0.060	0.700	1.653
10/15/2013 21:12	0917-173	10_15_2130_27_704	5.281	2.836	0.082	0.159	-0.109	0.129	0.939	1.439	-0.212	0.260	-0.110	0.700	-0.91
10/15/2013 21:12	0917-173	10_15_2130_27_724	1.109	2.975	-0.110	0.160	-0.040	0.136	0.854	1.543	0.243	0.263	-0.060	0.700	1.483
10/15/2013 21:12	0917-173	10_15_2130_27_744	0.029	2.689	0.029	0.158	-0.116	0.129	0.858	1.419	0.011	0.244	-0.110	0.700	-1.429
10/15/2013 21:12	0917-173	10_15_2130_27_764	2.179	2.837	-0.038	0.149	-0.118	0.118	1.155	1.727	0.06	0.210	-0.060	0.700	1.589
10/15/2013 21:12	0917-173	10_15_2130_27_784	2.238	2.834	0.113	0.146	-0.130	0.119	0.987	1.782	0.00	0.246	-0.000	0.700	-0.17
10/15/2013 21:12	0917-173	10_15_2130_27_804	5.580	2.840	0.140	0.146	-0.140	0.132	0.831	1.811	0.37	0.249	-0.050	0.700	3.55
10/15/2013 21:12	0917-173	10_15_2130_27_824	-10.953	2.496	0.305	0.147	-0.122	0.128	1.043	1.784	-0.319	0.218	-0.050	0.700	0.43
10/15/2013 21:12	0917-173	10_15_2130_27_844	0.97	2.485	0.278	0.155	-0.040	0.133	0.933	1.884	-0.261	0.244	-0.050	0.700	-1.45
10/15/2013 21:12	0917-173	10_15_2130_27_864	4.114	2.761	0.140	0.149	-0.105	0.130	0.814	1.878	0.447	0.214	-0.110	0.700	0.18
10/15/2013 21:12	0917-173	10_15_2130_27_884	1.10	2.670	0.030	0.143	-0.141	0.131	0.899	1.833	-0.349	0.234	-0.050	0.700	-1.24
10/15/2013 21:12	0917-173	10_15_2130_27_904	4.870	2.720	0.199	0.156	-0.000	0.131	1.135	1.814	-0.073	0.140	-0.110	0.700	0.774
10/15/2013 21:12	0917-173	10_15_2130_27_924	4.664	2.780	0.144	0.144	-0.030	0.131	0.868	1.868	0.241	0.211	-0.040	0.700	-1.10
10/15/2013 21:12	0917-173	10_15_2130_27_944	1.71	2.814	0.088	0.149	-0.080	0.120	1.300	1.720	0.46	0.232	-0.050	0.700	-1.40
10/15/2013 21:12	0917-173	10_15_2130_27_964	0.501	3.196	0.190	0.137	-0.280	0.124	1.155	1.606	-0.050	0.247	-0.100	0.700	-0.36
10/15/2013 21:12	0917-173	10_15_2130_27_984	0.320	3.082	0.028	0.159	-0.235	0.123	1.263	1.565	-0.033	0.249	-0.100	0.700	0.638
10/15/2013 21:12	0917-173	10_15_2130_28_004	4.410	1.916	0.223	0.150	-0.180	0.132	0.812	1.573	0.331	0.248	-0.070	0.700	-0.877
10/15/2013 21:12	0917-173	10_15_2130_28_024	2.327	2.973	-0.180	0.150	0.274	0.138	1.126	1.590	0.009	0.233	-0.02	0.700	-0.15
10/15/2013 21:12	0917-173	10_15_2130_28_044	1.144	2.860	-0.060	0.155	-0.030	0.129	0.876	1.584	-0.219	0.234	-0.080	0.700	0.184
10/15/2013 21:12	0917-173	10_15_2130_28_064	-1.539	3.010	0.100	0.181	-0.110	0.124	1.064	1.565	0.198	0.245	-0.060	0.700	1.18
10/15/2013 21:12	0917-173	10_15_2130_28_084	4.608	2.769	0.083	0.156	-0.127	0.126	0.846	1.546	-0.13	0.246	-0.110	0.700	-1.019
10/15/2013 21:12	0917-173	10_15_2130_28_104	4.064	2.854	-0.079	0.149	-0.260	0.131	0.959	1.604	-0.10	0.241	-0.010	0.700	-0.972
10/15/2013 21:12	0917-173	10_15_2130_28_124	1.20	2.989	-0.075	0.152	-0.162	0.124	1.028	1.543	-0.410	0.238	-0.080	0.700	0.50
10/15/2013 21:12	0917-173	10_15_2130_28_144	6.415	2.934	-0.102	0.157	-0.224	0.130	1.215	1.571	-0.21	0.241	-0.110	0.700	-0.81
10/15/2013 21:12	0917-173	10_15_2130_28_164	2.869	2.869	0.089	0.149	-0.000	0.138	0.529	1.540	0.230	0.233	-0.110	0.700	-0.81
10/15/2013 21:12	0917-173	10_15_2130_28_184	4.486	2.892	0.091	0.161	-0.371	0.138	0.840	1.54					

Location	Dir.	#	Start/Stop	Instrument	Label	Label	Label	Label	Label	Label	Label	Label	Label
Date	Method	Flarename	DFP	Armsize	[ppm]	[ppm]	[ppm]	[ppm]	[ppm]	[ppm]	[ppm]	[ppm]	[ppm]
					1-Analyte	2-Analyte	3-Analyte/Solvent	4-Analyte	5-Analyte	6-Analyte	7-Analyte	8-Analyte	9-Analyte
10/16/2013	15:10	0917-173	NO13_10_16_1530_56_553	1	5.277	2.340	0.074	0.190	0.901	-0.225	0.228	-0.01000	0.008
10/16/2013	15:11	0917-173	NO13_10_16_1531_20_793	1	4.850	2.540	0.219	0.226	0.990	0.110	0.686	0.183	0.133
10/16/2013	15:11	0917-173	NO13_10_16_1531_30_803	1	4.942	1.648	-0.0400	0.242	0.0210	0.1130	0.837	0.016	-0.013
10/16/2013	15:11	0917-173	NO13_10_16_1531_35_041	1	1.9670	0.643	0.128	0.188	0.6500	0.110	0.887	0.814	-0.100
10/16/2013	15:11	0917-173	NO13_10_16_1531_31_231	1	4.118	2.528	-0.1570	0.137	0.076	0.134	0.616	1.800	-0.338
10/16/2013	15:11	0917-173	NO13_10_16_1531_31_603	1	2.499	4.099	0.124	0.142	-0.0050	0.109	1.125	1.619	-0.252
10/16/2013	15:11	0917-173	NO13_10_16_1531_39_793	1	4.758	2.803	-0.300	0.139	0.0270	0.118	0.585	1.782	0.172
10/16/2013	15:11	0917-173	NO13_10_16_1531_45_201	1	3.814	2.004	0.251	0.140	-0.054	0.1100	0.738	1.769	-0.108
10/16/2013	15:11	0917-173	NO13_10_16_1531_50_311	1	1.172	2.492	-0.261	0.147	0.142	0.1080	0.534	1.754	-0.104
10/16/2013	15:11	0917-173	NO13_10_16_1531_54_311	1	2.909	2.131	-0.119	0.133	0.133	0.1050	0.831	1.724	-0.138
10/16/2013	15:11	0917-173	NO13_10_16_1531_54_311	1	7.588	2.000	0.175	0.133	0.161	0.1020	0.9670	1.729	0.146
10/16/2013	15:12	0917-173	NO13_10_16_1532_00_811	1	6.917	2.500	0.1820	0.139	0.166	0.1040	0.700	1.744	0.105
10/16/2013	15:12	0917-173	NO13_10_16_1532_05_801	1	0.243	2.051	0.1310	0.136	0.029	0.1090	0.846	1.707	-0.226
10/16/2013	15:12	0917-173	NO13_10_16_1532_10_801	1	2.287	2.660	0.154	0.141	0.188	0.1090	0.908	1.729	-0.105
10/16/2013	15:12	0917-173	NO13_10_16_1532_15_501	1	0.035	2.428	0.076	0.140	0.158	0.105	1.083	1.708	0.001
10/16/2013	15:12	0917-173	NO13_10_16_1532_21_501	1	1.414	1.699	-0.0980	0.128	0.154	0.1090	0.820	1.886	-0.226
10/16/2013	15:12	0917-173	NO13_10_16_1532_27_001	1	0.806	2.651	0.0650	0.124	0.242	0.1030	0.608	1.647	-0.425
10/16/2013	15:12	0917-173	NO13_10_16_1532_33_001	1	1.732	2.788	0.1530	0.132	0.1610	0.1090	0.864	1.721	-0.141
10/16/2013	15:12	0917-173	NO13_10_16_1532_39_181	1	2.091	2.095	0.001	0.140	0.137	0.1030	0.735	1.683	-0.033
10/16/2013	15:12	0917-173	NO13_10_16_1532_40_181	1	1.821	2.111	-0.188	0.139	0.139	0.1090	0.983	1.672	-1.161
10/16/2013	15:12	0917-173	NO13_10_16_1532_46_181	1	4.60	2.454	0.225	0.142	0.190	0.1090	0.796	1.635	-0.028
10/16/2013	15:12	0917-173	NO13_10_16_1532_51_481	1	4.751	2.436	0.165	0.138	0.216	0.1070	0.795	1.643	-0.008
10/16/2013	15:12	0917-173	NO13_10_16_1532_53_081	1	5.503	2.583	-0.4650	0.142	-0.0150	0.1030	0.589	1.712	-0.296
10/16/2013	15:12	0917-173	NO13_10_16_1532_57_471	1	-7.240	2.774	0.171	0.151	-0.193	0.141	0.22	1.537	-0.007
10/16/2013	15:12	0917-173	NO13_10_16_1532_58_481	1	6.231	2.833	-0.288	0.146	-0.341	0.141	0.906	1.480	-0.507
10/16/2013	15:12	0917-173	NO13_10_16_1532_59_481	1	-1.47	3.050	-0.066	0.161	0.166	0.141	1.119	1.617	-0.102
10/16/2013	15:12	0917-173	NO13_10_16_1532_59_761	1	1.609	2.728	-0.0450	0.172	-0.285	0.136	0.870	1.413	-0.27
10/16/2013	15:12	0917-173	NO13_10_16_1532_59_761	1	2.297	2.610	-0.179	0.162	-0.362	0.132	1.154	1.468	-0.002
10/16/2013	15:12	0917-173	NO13_10_16_1532_59_761	1	1.6940	3.007	0.066	0.166	0.156	0.140	1.131	1.589	-0.010
10/16/2013	15:12	0917-173	NO13_10_16_1532_59_761	1	3.010	3.010	-0.139	0.164	-0.1500	0.139	1.066	1.494	-0.094
10/16/2013	15:12	0917-173	NO13_10_16_1532_59_761	1	4.171	2.922	0.207	0.165	-0.187	0.127	0.643	1.522	-0.007
10/16/2013	15:12	0917-173	NO13_10_16_1532_59_761	1	0.587	3.113	0.166	0.161	-0.102	0.138	0.354	1.573	-0.131
10/16/2013	15:12	0917-173	NO13_10_16_1532_59_761	1	-1.0	2.940	-0.44	0.185	-0.2920	0.134	0.888	1.590	0.020
10/16/2013	15:12	0917-173	NO13_10_16_1532_59_761	1	5.094	2.911	0.065	0.158	0.085	0.123	1.13	1.617	0.15
10/16/2013	15:12	0917-173	NO13_10_16_1532_59_761	1	2.249	2.817	-0.35	0.159	-0.127	0.129	0.675	1.641	0.15
10/16/2013	15:12	0917-173	NO13_10_16_1532_59_761	1	-1.046	2.649	-0.135	0.157	-0.285	0.130	0.675	1.679	-0.199
10/16/2013	15:12	0917-173	NO13_10_16_1532_59_761	1	4.705	2.974	0.020	0.159	0.120	0.120	0.621	1.625	-0.044
10/16/2013	15:12	0917-173	NO13_10_16_1532_59_761	1	0.52	2.843	0.071	0.152	-0.117	0.138	0.695	1.737	0.010
10/16/2013	15:12	0917-173	NO13_10_16_1532_59_761	1	2.01	2.780	0.0020	0.158	-0.018	0.132	0.708	1.717	0.02
10/16/2013	15:12	0917-173	NO13_10_16_1532_59_761	1	2.619	2.816	0.21	0.147	0.211	0.132	0.762	1.752	0.11
10/16/2013	15:12	0917-173	NO13_10_16_1532_59_761	1	-1.036	2.422	0.125	0.140	-0.218	0.133	0.717	1.783	0.216
10/16/2013	15:12	0917-173	NO13_10_16_1532_59_761	1	5.155	2.528	-0.58	0.151	-0.0400	0.132	0.876	1.786	-0.640
10/16/2013	15:12	0917-173	NO13_10_16_1532_59_761	1	-1.43	2.788	-0.128	0.149	0.139	0.138	0.848	1.796	0.003
10/16/2013	15:12	0917-173	NO13_10_16_1532_59_761	1	-0.9070	2.876	-0.209	0.142	-0.1900	0.135	0.680	1.796	-0.001
10/16/2013	15:12	0917-173	NO13_10_16_1532_59_761	1	3.82	2.900	0.208	0.148	0.0740	0.134	0.885	1.816	0.015
10/16/2013	15:12	0917-173	NO13_10_16_1532_59_761	1	0.150	2.950	-0.078	0.152	-0.078	0.132	0.875	1.803	-0.005
10/16/2013	15:12	0917-173	NO13_10_16_1532_59_761	1	-2.14	2.799	0.189	0.149	-0.040	0.137	0.11	1.809	-0.005
10/16/2013	15:12	0917-173	NO13_10_16_1532_59_761	1	2.340	2.897	0.002	0.138	-0.0010	0.133	0.470	1.885	-0.015
10/16/2013	15:12	0917-173	NO13_10_16_1532_59_761	1	-1.070	2.912	0.084	0.142	0.104	0.136	0.792	1.812	0.134
10/16/2013	15:12	0917-173	NO13_10_16_1532_59_761	1	7.0660	2.861	-0.1420	0.135	-0.115	0.138	0.816	1.825	-0.058
10/16/2013	15:12	0917-173	NO13_10_16_1532_59_761	1	4.698	2.701	0.370	0.148	-0.051	0.120	0.826	1.897	0.026
10/16/2013	15:12	0917-173	NO13_10_16_1532_59_761	1	2.163	2.950	0.070	0.145	-0.306	0.128	0.888	1.886	-0.018
10/16/2013	15:12	0917-173	NO13_10_16_1532_59_761	1	4.20	2.816	0.190	0.138	0.107	0.137	0.841	1.875	0.02
10/16/2013	15:12	0917-173	NO13_10_16_1532_59_761	1	-1.21	2.653	-0.089	0.146	-0.0220	0.120	0.807	1.808	-0.02
10/16/2013	15:12	0917-173	NO13_10_16_1532_59_761	1	4.79	2.750	0.08	0.143	-0.157	0.122	1.134	1.869	-0.065
10/16/2013	15:12	0917-173	NO13_10_16_1532_59_761	1	3.657	2.410	-0.042	0.143	0.188	0.129	0.816	1.889	-0.047
10/16/2013	15:12	0917-173	NO13_10_16_1532_59_761	1	1.4790	2.905	0.038	0.158	0.200	0.119	0.895	1.887	0.187
10/16/2013	15:12	0917-173	NO13_10_16_1532_59_761	1	-0.940	2.811	0.111	0.140	-0.1870	0.124	0.707	1.807	-0.26
10/16/2013	15:12	0917-173	NO13_10_16_1532_59_761	1	1.709	2.661	0.045	0.141	0.1780	0.120	0.863	1.858	-0.108
10/16/2013	15:12	0917-173	NO13_10_16_1532_59_761	1	-3.60	2.821	-0.083	0.138	0.186	0.123	0.973	1.994	-0.311
10/16/2013	15:12	0917-173	NO13_10_16_1532_59_761	1	1.937	2.618	-0.046	0.149	0.194	0.139	0.813	1.877	0.117
10/16/2013	15:12	0917-173	NO13_10_16_1532_59_761	1	1.709	2.661	0.045	0.141	0.1780	0.120	0.863	1.858	-0.108
10/16/2013	15:12	0917-173	NO13_10_16_1532_59_761	1	-2.14	2.492	-0.094	0.149	0.194	0.139	0.813	1.877	0.117
10/16/2013	15:12	0917-173	NO13_10_16_1532_59_761	1	-1.802	2.851	-0.177	0.143	-0.1020	0.123	0.714	1.904	-0.380
10/16/2013	15:12	0917-173	NO13_10_16_1532_59_761	1	-8.840	2.498	-0.001	0.136	-0.129	0.114	1.030	1.978	-0.293
10/16/2013	15:12	0917-173	NO13_10_16_1532_59_761	1	1.199	2.816	0.08	0.141	0.104	0.119	0.675	1.880	0.12
10/16/2013	15												

Location	Disc	#	Inst	Start row	stop row
Data	CYL	1	A	43	49
Data	SPK	1	A	91	97
Data	UNSPK	1	A	103	109
Data	Run	1	A	145	205
Data	Run	2	A	238	296
Data	Run	3	A	305	364
Data	MDC	1		506	512
Data	Run	4	A	538	597
Data	Run	5	A	608	667
Data	Run	6	A	685	743
Data	Run	13	A	781	840
Data	Run	7	A	971	1030
Data	Run	8	A	1043	1102
Data	Run	9	A	1113	1173
Data	Run	10	A	1362	1422
Data	Run	11	A	1435	1494
Data	Run	12	A	1506	1564

APPENDIX D
Method 320 Log Sheet

FTIR Log - Enviva Amory

Date	Time	Filename	Method	Pressure	Notes	Run ID		
14-Oct	1207	13.10.14.1207.07.590	CTS	14.62	Background			
	1214	13.10.14.1214.07.635	CTS	14.75	CTS (pathlength = 8.693 m)			
	1237	13.10.14.1237.34.593	0913-177A	14.61	Background			
	1244	13.10.14.1244.42.467	0913-177A	14.74	Methanol Direct (Response = 102.3 ppm/ 2.86 ppm)			
	1345-1400	13.10.14.1313.07.480	0913-177A	12.48	Methanol Spike			
	1400	13.10.14.1313.07.480	0913-177A	12.48	Native Sampling (Dryer)			
	1421	13.10.14.1421.39.358	0913-177A	14.76	Background			
	1515	13.10.14.1439.35.902	0913-177A	12.44	Sampling Dryer Stack - Run 1 (1515-1615)		1	
	1649	13.10.14.1439.35.902	0913-177A	12.45	Sampling Dryer Stack - Run 2 (1649-1749)		2	
	1758	13.10.14.1439.35.902	0913-177A	12.43	Sampling Dryer Stack - Run 3 (1758-1858)		3	
	1919	13.10.14.1919.11.369	CTS	14.75	Background			
	1923	13.10.14.1923.43.600	CTS	14.77	CTS (pathlength = 8.69 m)			
	1935	13.10.14.1935.06.334	0913-177A	14.77	Background			
	1953	13.10.14.1953.35.0678	0913-177A	14.67	Water Spectra (Dryer)			
	15-Oct	748	13.10.15.0747.33.901	CTS	14.84		Background	
		751	13.10.15.751.24.798	CTS	14.82		CTS (pathlength = 8.659 m)	
801		13.10.15.0801.49.212	0913-177A	14.75	Background			
911		13.10.15.0906.12.604	0913-177A	14.19	Sampling GHM- Run 1 (0911-1011)	4		
1022		13.10.15.0906.12.604	0913-177A	14.12	Sampling GHM- Run 2 (1022-1122)	5		
1140		13.10.15.0906.12.604	0913-177A	14.15	Sampling GHM- Run 1 (1140-1240)	6		
1303		13.10.15.1303.31.934	CTS	14.53	Background			
1311		13.10.15.1311.04.345	CTS	14.62	CTS (pathlength = 8.705222 m)			
1321		13.10.15.1321.30.008	0913-177A	14.62	Background			
1348		13.10.15.1332.44.520	0913-177A	14.23	Sampling DHM - Run 1 (1348-1448)	7		
1623		13.10.15.1623.38.363	CTS	14.49	Background			
1627		13.10.15.1627.16.305	CTS	14.6	CTS (pathlength = 8.7387 m)			
1639		13.10.15.1639.08.005	0913-177A	14.59	Background			
1736		13.10.15.1705.34.481	0913-177A	13.73	Sampling Aspirator - Run 1 (1736-1836)	8		
1849		13.10.15.1705.34.481	0913-177A	13.64	Sampling Aspirator - Run 2 (1849-1949)	9		
2000		13.10.15.1705.34.481	0913-177A	13.72	Sampling Aspirator - Run 3 (2000-2100)	10		
2111		13.10.15.2111.32.062	CTS	14.78	Background			
2115		13.10.15.2115.01.112	CTS	14.70	CTS (pathlength = 8.673 m)			
2126		13.10.15.2125.43.313	0913-177A	14.75	Background			
2140		13.10.15.2140.31.123	0913-177A	14.57	Water Spectra (Aspirator)			
2152	13.10.15.2152.01.616	0913-177A	14.58	Water Spectra (GHM)				
16-Oct	831	13.10.16.0831.24.910	CTS	14.68	Background	FTIR compl.		
	834	13.10.16.0834.58.007	CTS	14.81	CTS (pathlength = 8.614 m)			
	848	13.10.16.0848.20.179	0913-177A	14.70	Background			
	1054	13.10.16.1052.55.014	0913-177A	14.16	Sampling DHM - Run 2 (1054-1154)		11	
	1207	13.10.16.1052.55.015	0913-177A	14.02	Sampling DHM - Run 3 (1207-1307)		12	
	1321	13.10.16.1052.55.016	0913-177A	14.03	Sampling DHM - Run 4 (1321-1421)		13	
	1506	13.10.16.1503.27.589	CTS	14.70	Background			
	1507	13.10.16.1507.23.086	CTS	14.77	CTS (pathlength = 8.624 m)			
	1519	13.10.16.1519.05.95	0913-177A	14.75	Background			
	1541	13.10.16.1541.15.467	0913-177A	14.65	Water Spectra (DHM)			

MAY 27 15
 2015 AIR RECORDS MGMT

Spiking and CTS Record

Date	Time	Direct Cylinder Spike		System Spiked Gas		Native Conc.		SF6 Recovery	Methanol Recovery
		(ppm methanol)	(ppm SF6)	(ppm methanol)	(ppm SF6)	(ppm methanol)	(ppm SF6)		
14-Oct	1245	102.30	2.86	9.000	0.224	2.017	0.012769	7.4%	94.5%

91.71 ppm std

Date	Time	CTS Scan (pathlength)	SEC (ppm)	Cell Pressure (psi)	Cell Temp (deg C)	Deviation from Previous	Deviation from Average
14-Oct	1215	8.693	0.133	14.75	121	NA	-0.2%
	1923	8.685	0.133	14.77	121	0.1%	-0.1%
15-Oct	750	8.659	0.132	14.19	121	0.3%	0.2%
	1311	8.705	0.134	14.62	121	-0.5%	-0.4%
	1627	8.739	0.133	14.6	121	-0.4%	-0.7%
	2115	8.673	0.132	14.6	121	0.8%	0.0%
16-Oct	0830	8.614	0.134	14.81	121	0.7%	0.7%
	1510	8.624	0.132	14.77	121	-0.1%	0.6%
Average						Maximum Deviation	-0.7%

APPENDIX E
Example Calculations

EXAMPLE CALCULATIONS

Run Number: Dryer – Run 1

Stack Gas Temperature, °R

$$T_s = 460 + t_s$$

$$T_s = 460 + 199.6 = 659.6 \text{ °R}$$

Volume of Dry Gas Sampled at Standard Conditions, Dry Standard Cubic Feet

$$V_{\text{mstd}} = [17.64] \left[\frac{\left(P_{\text{bar}} + \frac{\Delta H}{13.6} \right)}{T_m + 460} \right]$$

$$V_{\text{mstd}} = [17.64] [0.9828] [30.692] \left[\frac{\left(29.80 + \frac{1.00}{13.6} \right)}{543.8} \right]$$

$$V_{\text{mstd}} = 28.834 \text{ ft}^3$$

Volume of Water Sampled, SCF

$$V_{\text{wstd}} = 0.04715 \text{ [Weight of Condensed Moisture]}$$

$$V_{\text{wstd}} = 0.04715 [83.8]$$

$$V_{\text{wstd}} = 3.951 \text{ ft}^3$$

Fraction of Water Vapor in Sample Gas Stream

$$\% \text{H}_2\text{O} = \left[\frac{V_{\text{wstd}}}{V_{\text{mstd}} + V_{\text{wstd}}} \right] \times 100$$

$$\% \text{H}_2\text{O} = \left[\frac{3.951}{28.834 + 3.951} \right] \times 100$$

$$\% \text{H}_2\text{O} = 12.05$$

Dry Mole Fraction of Flue Gas

$$M_{fd} = 1 - \%H_2O/100$$

$$M_{fd} = 1 - [12.05/100]$$

$$M_{fd} = 0.879$$

Molecular Weight of Sample Gas, Dry

$$M_d = 0.44[\%CO_2] + 0.32[\%O_2] + 0.28[100 - \%O_2 - \%CO_2]$$

$$M_d = 0.44[2.0] + 0.32[19.0] + 0.28[100 - 19.0 - 2.0]$$

$$M_d = 29.08 \text{ pounds/pound-mole}$$

Molecular Weight of Sample Gas, Actual Conditions

$$M_s = [M_d \times M_{fd}] + [0.18 \times \%H_2O]$$

$$M_s = [29.08 \times 0.879] + [0.18 \times 12.05]$$

$$M_s = 27.74 \text{ pounds/pound-mole}$$

Average Stack Gas Velocity, Feet/second

$$v_s = K_p C_p \left(\sqrt{\Delta p} \right)_{avg} \left[\sqrt{\frac{T_s + 460}{P_s M_s}} \right]$$

$$v_s = (85.49)(0.84) \left(\sqrt{2.104} \right) \left[\sqrt{\frac{659.6}{(29.61)(27.74)}} \right]$$

$$v_s = 93.35 \text{ feet/second}$$

Wet Volumetric Flue Gas Flow Rate at Stack Conditions, Cubic Feet per Minute

$$Q_{aw} = 60 \times v_s \times A$$

$$Q_{aw} = 60 \times 70.18 \times 12.57$$

$$Q_{aw} = 70,382 \text{ Actual Cubic Feet per Minute}$$

Dry Volumetric Flue Gas Flow Rate at Standard Conditions, Cubic Feet per Minute

$$Q_{sd} = 60 \times Mfd \times vs \times A \times \left[\frac{528}{ts + 460} \right] \left[\frac{Ps}{29.92} \right]$$

$$Q_{sd} = 60 \times 0.879 \times 93.35 \times 12.57 \left[\frac{528}{659.6} \right] \left[\frac{29.61}{29.92} \right]$$

$$Q_{sd} = 49,036 \text{ Dry Standard Cubic Feet per Minute}$$

Average THC Dry Basis Concentration as Propane

$$C_{THCD} = (C_{THCW}) / (M_{fd})$$

Where: C_{THCd} = dry basis concentration of THC in ppm
 M_{fd} = dry mole fraction from Method 4 concurrent run

$$C_{THCD} = 29.6 / 0.879 = 33.6 \text{ ppm THC as propane}$$

Average THC Dry Basis Concentration as Carbon

$$C_{THCD} = (C_{THCW}) \times (3) / (M_{fd})$$

Where: C_{THCd} = dry basis concentration of THC in ppm
 M_{fd} = dry mole fraction from Method 4 concurrent run

$$C_{THCD} = (29.6) \times (3) / 0.879 = 100.8 \text{ ppm THC as Carbon}$$

VOC Emission Rate in Pounds Per Hour

$$E_{VOC} = (C_{VOC}) (Q_{SD}) (60 \text{ min/hr}) (C_F)$$

Where: Q_{SD} = measured flow rate in stack in dscfm
 C_F = Conversion factor in lb/scf – ppm
 $C_F = 3.117 \times 10^{-8}$ for Carbon

$$E_{VOC} = (100.8) (49,036) (60 \text{ min/hr}) (3.117 \times 10^{-8}) = 9.24 \text{ lb/hr as Carbon}$$

APPENDIX F

Gas Cylinder Certification Sheets

CERTIFICATE OF ANALYSIS

Grade of Product: EPA Protocol

Part Number	E02AI99E15A00A6	Reference Number	122-124323950-1
Cylinder Number	CC410934	Cylinder Volume	146 Cu.Ft.
Laboratory	ASG - Durham - NC	Cylinder Pressure	2015 PSIG
PGVP Number	B22012	Valve Outlet	590
Gas Code	APPVD	Analysis Date	Jul 02, 2012

Expiration Date: Jul 02, 2015

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed. Analytical Methodology does not require correction for analytical interferences. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.
 Do Not Use This Cylinder below 150 psig (1 Mega Pascal)

ANALYTICAL RESULTS				
Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
PROPANE	28.00 PPM	27.99 PPM	G1	+/- 1% NIST Traceable
Air	Balance			

CALIBRATION STANDARDS				
Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM	080610	CC263046	49.62PPM PROPANE/AIR	May 14, 2018

ANALYTICAL EQUIPMENT		
Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
Nicolet 6700 AHR0801333 C3H8	FTIR	Jun 19, 2012

Triad Data Available Upon Request

Notes: ANW PN 781077



Approved for Release



Praxair Distribution Mid-Atlantic
 145 Shiversville Rd.
 Bethlehem, PA 18015
 Tel: (610) 317-1608 Fax: (610) 758 8382
 PGVP ID:

DocNumber: 000003740

CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

Customer & Order Information:

CHEROKEE INSTRUMENTS INC ^
 901 BRIDGE ST
 FUQUAY VARINA NC 275260

Praxair Order Number: 13003732
 Customer P. O. Number: 10429
 Customer Reference Number:

Fill Date: 4/7/2010
 Part Number: EV AIPR60ME-AB
 Lot Number: 917009747
 Cylinder Style & Outlet: AS CGA 590
 Cylinder Pressure & Volume: 2000 psig 140 cu. ft.

Certified Concentration:

Expiration Date:	4/12/2018	NIST Traceable
Cylinder Number:	CC283143	Analytical Uncertainty:
50.0 ppm	PROPANE	± 1 %
Balance	AIR	

Certification Information: Certification Date: 4/12/2010 Term: 96 Months Expiration Date: 4/12/2018

This cylinder was certified according to the 1997 EPA Traceability Protocol, Document #EPA-600/R-97/121, using Procedure G1. Do Not Use this Standard if Pressure is less than 150 PSIG.

Analytical Data:

(R=Reference Standard, Z=Zero Gas, C=Gas Candidate)

1. Component: PROPANE

Requested Concentration: 50 ppm
 Certified Concentration: 50.0 ppm
 Instrument Used: VARIAN 3300 INST 023 (PROPANE)
 Analytical Method: FID
 Last Multipoint Calibration: 3/16/2010

First Analysis Data:		Date: 4/12/2010	
Z: 0	R: 50.39	C: 49.84	Conc: 49.777
R: 50.38	Z: 0	C: 50.21	Conc: 50.147
Z: 0	C: 50.2	R: 50.34	Conc: 50.137
UOM: PPM	Mean Test Assay: 50.02 PPM		

Reference Standard Type: GMS
 Ref. Std. Cylinder #: CC182336
 Ref. Std. Conc: 50.3 PPM
 Ref. Std. Traceable to SRM #: 1668c
 SRM Sample #: 82-J-49
 SRM Cylinder #: XFC03734B

Second Analysis Data:		Date:	
Z: 0	R: 0	C: 0	Conc: 0
R: 0	Z: 0	C: 0	Conc: 0
Z: 0	C: 0	R: 0	Conc: 0
UOM: PPM	Mean Test Assay: 0 PPM		

Analyzed by:

Megha Patel for
 John Pribish

Certified by:

[Signature]
 Robin Morgan

Information contained herein has been prepared at your request by qualified experts within Praxair Distribution, Inc. While we believe that the information is accurate within the limits of the analytical methods employed and is complete to the extent of the specific analyses performed, we make no warranty or representation as to the suitability of the use of the information for any purpose. The information is offered with the understanding that any use of the information is at the sole discretion and risk of the user. In no event shall the liability of Praxair Distribution, Inc., arising out of the use of the information contained herein exceed the fee established for providing such information.

CERTIFICATE OF ANALYSIS

Grade of Product: EPA Protocol

Part Number	E02AI99E15A3227	Reference Number	122-124370084-1
Cylinder Number	SG9164792BAL	Cylinder Volume	146.2 CF
Laboratory	ASG - Durham - NC	Cylinder Pressure	2015 PSIG
PGVP Number	B22013	Valve Outlet	590
Gas Code	PPN	Certification Date	Apr 17, 2013

Expiration Date: Apr 17, 2021

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531 using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.

Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

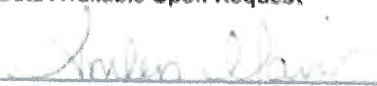
ANALYTICAL RESULTS					
Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty	Assay Dates
PROPANE	86.00 PPM	86.13 PPM	G1	+/- 1% NIST Traceable	04/17/2013
AIR	Balance				

CALIBRATION STANDARDS					
Type	Lot ID	Cylinder No	Concentration	Uncertainty	Expiration Date
NTRM	09081735	CC304058	97.82 PPM PROPANE/AIR	+/- 0.5%	Oct 02, 2013

ANALYTICAL EQUIPMENT		
Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
Nicolet 6700 AHR0801333 C3H8	FTIR	Mar 20, 2013

Triad Data Available Upon Request

Notes



Approved for Release



Praxair Distribution Mid-Atlantic
 145 Shiversville Rd
 Bethlehem, PA 18015
 Telephone: (610) 317-1608
 Facsimile: (610) 758-8382

DocNumber: 000007981

CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

Customer & Order Information

CHEROKEE INSTRUMENTS INC *
 901 BRIDGE ST
 FUQUAY VARINA NC 27526

Praxair Order Number: 15303079
 Customer P.O. Number: 11036
 Customer Reference Number:

Fill Date: 12/02/2010
 Part Number: AI PR260ZE AS
 Lot Number: 951034265
 Cylinder Style & Outlet: AS CGA 580
 Cylinder Pressure & Volume: 2000 psig 140 cu ft

Certified Concentration:

Expiration Date	12/13/2013	NIST Traceable
Cylinder Number	CC109519	Analytical Uncertainty
258.1 ppm	PROPANE	± 1 %
Balance	AIR	

Certification Information: Certification Date: 12/13/2010 Term: 36 Months Expiration Date: 12/13/2013

This cylinder was certified according to the 1997 EPA Traceability Protocol, Document #EPA-600/R-97/121, using Procedure G1
 Do Not Use this Standard if Pressure is less than 150 PSIG

Analytical Data:

(R=Reference Standard, Z=Zero Gas, C=Gas Candidate)

Component: PROPANE

Requested Concentration: 260 ppm
 Certified Concentration: 258.1 ppm
 Instrument Used: VARIAN 3300 INST 023 (PROPANE)
 Analytical Method: FID
 Last Multipoint Calibration: 11/19/2010

Reference Standard Type: GMIS
 Ref Std Cylinder #: CG136736
 Ref Std Conc: 499.9 PPM
 Ref Std Traceable to SRM #: 1669b
 SRM Sample #: 81-H 14
 SRM Cylinder #: XF004157b

First Analysis Data Date: 12/13/2010

Z:	0	R:	501.2	C:	258.6	Conc:	258.07
R:	501.4	Z:	0	C:	258.5	Conc:	257.97
Z:	0	C:	258.7	R:	500.2	Conc:	258.17

UOM: PPM Mean Test Assay: 258.07 PPM

Second Analysis Data Date:

Z:	0	R:	0	C:	0	Conc:	0
R:	0	Z:	0	C:	0	Conc:	0
Z:	0	C:	0	R:	0	Conc:	0

UOM: PPM Mean Test Assay: 0 PPM

Analyzed by: 
 John Pridish 12/13/10

Certified by: 
 Ashley Davila

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Praxair Distribution Mid-Atlantic
 145 Shinersville Rd
 Bethlehem, PA 18015
 Telephone: (610) 317-1608
 Facsimile: (610) 758-8382

DocNumber: 000009995

CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

Customer & Order Information:

CHEROKEE INSTRUMENTS INC *
 901 BRIDGE ST
 FUQUAY VARINA NC 275260

Praxair Order Number: 16230993
 Customer P. O. Number: 31207
 Customer Reference Number:

Fill Date: 3/17/2011
 Part Number: EV AIPR500ME-AS
 Lot Number: 912117668
 Cylinder Style & Outlet: AS CGA 590
 Cylinder Pressure & Volume: 2000 psig 140 cu ft

Certified Concentration:

Expiration Date	3/21/2014	NIST Traceable
Cylinder Number	SA20675	Analytical Uncertainty
507.1 ppm PROPANE		± 1 %
Balance AIR		

Certification Information: Certification Date: 3/21/2011 Term: 36 Months Expiration Date: 3/21/2014

This cylinder was certified according to the 1997 EPA Traceability Protocol, Document #EPA-600/R-97/121, using Procedure G1
 Do Not Use this Standard if Pressure is less than 150 PSIG

Analytical Data:

(R)=Reference Standard, Z=Zero Gas, C=Gas Candidate)

1. Component: PROPANE

Requested Concentration: 500 ppm
 Certified Concentration: 507.1 ppm
 Instrument Used: VARIAN 3300 INST 023 (PROPANE)
 Analytical Method: FID
 Last Multiport Calibration: 3/16/2011

Reference Standard Type: GMIS
 Ref. Std. Cylinder #: CC103865
 Ref. Std. Conc.: 749.3 PPM
 Ref. Std. Traceable to SRM #: 2646a
 SRM Sample #: 103 C-23
 SRM Cylinder #: XF000820B

First Analysis Data: Date: 3/21/2011

Z:	0	R:	749.9	C:	508.2	Conc:	507.86
R:	749.1	Z:	0	C:	507.2	Conc:	506.80
Z:	0	C:	505.8	R:	750.4	Conc:	505.46

UOM: PPM Mean Test Assay: 507.06 PPM

Second Analysis Data: Date:

Z:	0	R:	0	C:	0	Conc:	0
R:	0	Z:	0	C:	0	Conc:	0
Z:	0	C:	0	R:	0	Conc:	0

UOM: PPM Mean Test Assay: 0 PPM

Analyzed by:

John Prubish
 3/21/11

Certified by:

Michelle Kostik

Information contained herein has been prepared at your request by qualified experts within Praxair Distribution, Inc. While we believe that the information is accurate within the limits of the analytical methods employed and is complete to the extent of the specific analyses performed, we make no warranty or representation as to the suitability of the use of the information for any purpose. The information is offered with the understanding that any use of the information is at the sole discretion and risk of the user. In no event shall the liability of Praxair Distribution, Inc. arising out of the use of the information can be limited herein, exceed the fee established for providing such information.

CERTIFICATE OF ANALYSIS

Grade of Product: EPA Protocol

Airgas Specialty Gases

830 United Drive
 Durham, NC 27713
 919-544-3773 Fax 919-544-3774
 www.airgas.com

Part Number	E02AI99E15A0333	Reference Number	122-124344171-1
Cylinder Number	CC148274	Cylinder Volume	146 Cu.Ft.
Laboratory	ASG - Durham - NC	Cylinder Pressure	2015 PSIG
PGVP Number	B22012	Valve Outlet	590
Gas Code	APPVD	Analysis Date	Nov 05, 2012

Expiration Date: Nov 05, 2020

Certification performed in accordance with 'EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)' document EPA 800/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.

Do Not Use This Cylinder Below 100 psig, i.e. 7 megapascals.

ANALYTICAL RESULTS				
Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
PROPANE	850.0 PPM	836.9 PPM	G1	+/- 1% NIST Traceable
Air	Balance			

CALIBRATION STANDARDS				
Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM	110609	CC343416	1000.3PPM PROPANE/NITROGEN	Mar 04, 2017

ANALYTICAL EQUIPMENT		
Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
Nicolet 6700 AHR0801333 C3H8	FTIR	Oct 11, 2012

Triad Data Available Upon Request

Notes ANW PN 781018



Approved for Release



AIR L

DE

Air Liquide America
Specialty Gases LLC



Scott

CERTIFIED WORKING CLASS

Single-Certified Calibration Standard

6141 EASTON ROAD, BLDG 1, PLUMSTEADVILLE, PA 18949-0310

Phone: 800-331-4953 Fax: 215-766-7226

CERTIFICATE OF ACCURACY: Certified Working Class Calibration Standard

Product Information

Document # : 46628943-001
Item No.: MM301080-T-30AL
P.O. No.: 06081203

Cylinder Number: ALM018055
Cylinder Size: 30AL
Certification Date: 21Jun2012
Expiration Date: 21Jun2014
Lot Number: PLU0109851

Customer

ENTHALPY ANAYTICAL, INC.
06081203
800-1 CAPITOLA DRIVE
DURHAM, NC 27703
US

CERTIFIED CONCENTRATION

Component Name

Concentration (Moles)

Accuracy (+/-%)

METHANOL
SULFUR HEXAFLUORIDE
NITROGEN

105. PPM
3.0 PPM
BALANCE

5
5

TRACEABILITY

Traceable To

Scott Reference Standard

APPROVED BY:


DAVID ASHNOFF

DATE:

6-21-2012

CERTIFICATE OF ANALYSIS

Grade of Product: **CERTIFIED STANDARD-SPEC**

Part Number:	X03NI99C15A1FX5	Reference Number:	83-124390037-1A
Cylinder Number:	CC90659	Cylinder Volume:	144.4 CF
Laboratory:	ASG - Port Allen - LA	Cylinder Pressure:	2015 PSIG
Analysis Date:	Sep 30, 2013	Valve Outlet:	350S
Lot Number:	83-124390037-1A		

Product composition verified by direct comparison to calibration standards traceable to N.I.S.T. weights and/or N.I.S.T. Gas Mixture reference materials.

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration (Mole %)	Analytical Uncertainty
SULFUR HEXAFLUORIDE	3.000 PPM	3.127 PPM	+/- 5%
METHANOL	100.0 PPM	91.71 PPM	+/- 2%
NITROGEN	Balance		

Notes:


Approved for Release

CERTIFICATE OF ANALYSIS

Grade of Product: CERTIFIED STANDARD-SPEC

Part Number:	X02NI99C15A1268	Reference Number:	122-124373993-1
Cylinder Number:	CC432538	Cylinder Volume:	144.4 CF
Laboratory:	ASG - Durham - NC	Cylinder Pressure:	2015 PSIG
Analysis Date:	May 08, 2013	Valve Outlet:	350
Lot Number:	122-124373993-1		

Product composition verified by direct comparison to calibration standards traceable to N.I.S.T. weights and/or N.I.S.T. Gas Mixture reference materials.

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration (Mole %)	Analytical Uncertainty
ETHYLENE	100.0 PPM	99.88 PPM	+/- 2%
NITROGEN	Balance		

Notes:


Approved for Release

APPENDIX F

Equipment Calibration Sheets

**APEX INSTRUMENTS METHOD 5 POST-TEST CONSOLE CALIBRATION
USING CALIBRATED CRITICAL ORIFICES
3-POINT ENGLISH UNITS**

Meter Console Information	
Console Model Number	522
Console Serial Number	909033
DGM Model Number	RW 110
DGM Serial Number	961167

Calibration Conditions	
Date	10/23/13
Time	10:30
Barometric Pressure	29.46 in Hg
Theoretical Critical Vacuum ¹	13.91 in Hg
Calibration Technician	TTB

Factors/Conversions	
Std Temp	528 °R
Std Press	29.92 in Hg
K ₁	17.647 or/in Hg

¹For valid test results, the Actual Vacuum should be 1 to 2 in. Hg greater than the Theoretical Critical Vacuum shown above.

²The Critical Orifice Coefficient, K', must be entered in English units, (ft³•°R^{1/2})/(in. Hg•min).

Calibration Data											
Run Time	Metering Console				Critical Orifice				Calibration Factor		
	Elapsed (g) min	DGM Orifice ΔH (P _{in}) in H ₂ O	Volume Initial (V _{in}) cubic feet	Volume Final (V _{out}) cubic feet	Outlet Temp Initial (T _{in}) °F	Outlet Temp Final (T _{out}) °F	Serial Number	Coefficient	Amb Temp Initial (T _{amb}) °F	Amb Temp Final (T _{amb}) °F	Actual Vacuum
16.0		1.20	637.000	646.659	62	63	FO55	see above ²	63	65	19.00
13.0		1.20	647.000	654.859	64	64	FO55	0.4594	65	65	19.00
13.0		1.20	655.100	662.965	64	65	FO55	0.4594	65	66	19.00

Standardized Data				Results			
Dry Gas Meter (V _{meas}) cubic feet	Critical Orifice (Q _{meas}) cfm	Volume Initial (V _{in}) cubic feet	Volume Final (V _{out}) cubic feet	Calibration Factor		Dry Gas Meter	
				Value (Y)	Variation (ΔY)	Flowrate Std & Corr (Q _{meas/corr}) cfm	ΔH @ 0.75 SCFM (ΔH@) in H ₂ O
9.639	0.602	9.460	0.591	0.981	0.000	0.591	1.934
7.821	0.602	7.679	0.591	0.982	0.000	0.591	1.933
7.819	0.601	7.675	0.590	0.982	0.000	0.590	1.933
Pretest Gamma	0.9828	% Deviation	0.1	0.982	Y Average	0.590	ΔH@ Average

Note: For Calibration Factor Y, the ratio of the reading of the calibration meter to the dry gas meter, acceptable tolerance of individual values from the average is ±0.02.

I certify that the above Dry Gas Meter was calibrated in accordance with USEPA Methods, CFR Title 40, Part 60, Appendix A-3, Method 5, 16.2.3

Signature: Todd Brozell

Date: 10/23/2013

**Type S Pitot Tube Inspection and
Stack Thermocouple Calibration**

GENERAL INFORMATION

Probe ID
Date

Personnel
Coefficient Value

PITOT TUBE INSPECTION

Pitot Tube assembly level? (yes/no)
Pitot Tube obstruction? (yes/no)
Pitot Tube openings damaged? (yes/no)

α_1 $\leq \pm 10^\circ$
 α_2 $\leq \pm 10^\circ$
 β_1 $\leq \pm 5^\circ$
 β_2 $\leq \pm 5^\circ$
 γ
 θ
 $z = A \tan(\gamma)$ $\leq \pm \frac{1}{16}''$
 $\omega = A \tan(\theta)$ $\leq \pm \frac{1}{32}''$
 D_t
 ($\frac{3}{16}'' < D_t < \frac{3}{8}''$ Recommended)
 A
 P_A
 P_B
 ($1.05 < P/D_t < 1.50$ Recommended)

STACK THERMOCOUPLE CALIBRATION


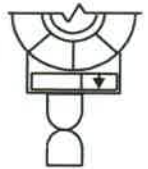
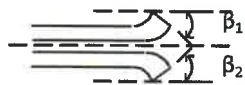
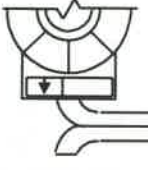
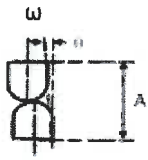
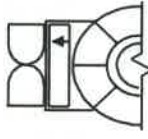
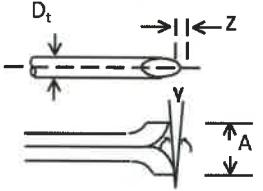
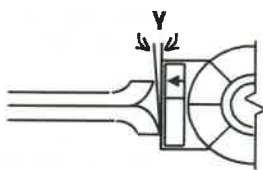
Ref. Type Ref. ID

Source	Ref., °F	Stack TC, °F	Abs. Diff., °F
Ice bath	43	45	2
Ambient	75	75	0
Hot water	193	194	1
Maximum Temp. Difference, °F			2

Type S Pitot Tube Inspection and
Stack Thermocouple Calibration

GENERAL INFORMATION			
Probe ID	6H	Personnel	DLS
Date	9/21/2011	Coefficient Value	0.84

PITOT TUBE INSPECTION	
Pitot Tube assembly level? (yes/no)	yes
Pitot Tube obstruction? (yes/no)	no
Pitot Tube openings damaged? (yes/no)	no

		α_1	1.4	$\leq \pm 10^\circ$
		α_2	0.4	$\leq \pm 10^\circ$
		β_1	1.9	$\leq \pm 5^\circ$
		β_2	1.2	$\leq \pm 5^\circ$
		γ	2.9	
		θ	0.2	
		$z = A \tan(\gamma)$	0.049	$\leq \pm \frac{1}{8}''$
		$\omega = A \tan(\theta)$	0.003	$\leq \pm \frac{1}{32}''$
		D_t	0.375	
		$(\frac{3}{16}'' < D_t < \frac{3}{8}'' \text{ Recommended})$		
		A	0.9375	
		P_A		
		P_B	1.29	
		$(1.05 < P/D_t < 1.50 \text{ Recommended})$		

STACK THERMOCOUPLE CALIBRATION			
Ref. Type	Hg Thermometer	Ref. ID	Hg-1
Source	Ref., °F	Stack TC, °F	Abs. Diff., °F
Ice bath	43	45	2
Ambient	75	75	0
Hot water	193	192	1
Maximum Temp. Difference, °F			2

ATTACHMENT B