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Florida Power & Light Company
West County Energy Center – Units 1&2
Permit No. – PSD-FL-354
DEP File No. – 0990646-001-AC

WCPP Project 144553
WCPP Files 14.0100/32.0440
WCPP-2011-TP-714
September 16, 2011

E-mail, Express Mail

Ms. Lynn Scearce
Florida Department of Environmental Protection
Division of Air Resource Management
Bureau of Air Regulation
2600 Blair Stone Road, MS 5500
Tallahassee, FL 32399-2400

Subject: **West County Unit 2A Fuel Oil Emissions Test Report**

Dear Ms. Scearce:

On behalf of Florida Power & Light Company (FPL) and its Designated Representative, Christian Kiernan, the West County Power Partners, LLC (WCPP), EPC Contractor for construction of the new combined cycle generating Unit 2 at the FPL West County Energy Center, is submitting the Unit 2A Fuel Oil Emissions Test Report per the requirements of 40 CFR Part 60 and West County's Air Permit, Records and Reports, #31 (Permit No. PSD-FL-354).

If you have any questions about this notification or the attachment, please contact Terry Apple at (913) 458-7220.

Very truly yours,

WEST COUNTY POWER PARTNERS, LLC

for Mike Perkins
Project Executive

WS:hs

enclosure: 1 hard copy, 1 CD

cc: w/enclosures as indicated:
Dave McNeal, USEPA Air, Pesticides and Toxics Management, w/1 hard copy, 1 CD
Carlos Martinez, USEPA Clean Air Markets Division
Leigh Pell, FDEP Air Resource Management
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Compliance Report R8

EMISSIONS COMPLIANCE REPORT
FOR
FLORIDA POWER & LIGHT
WEST COUNTY ENERGY CENTER
LOXAHATCHEE, FLORIDA
UNIT 2A – FIRING FUEL OIL
Permit Number: PSD-FL-354

Prepared for:

Black And Veatch Energy
11401 Lamar Avenue
Overland Park, KS 66211

Prepared by:

Source Testing And Consulting Services, Inc.
1100 Purple Glory Drive
Apex, North Carolina 27502

August 2011

TABLE OF CONTENTS

1.0 INTRODUCTION

1.0 INTRODUCTION

Source Testing And Consulting Services, Inc. (STACS) is under contract to Black & Veatch Energy to conduct a series of initial emissions compliance tests at the Florida Power & Light, West County Energy Center (WCEC) located in Loxahatchee, Florida. Mitsubishi Power Systems recently completed construction of three, 3-on-1 combined cycle dual fuel MPS 501G combustion turbines rated at a nominal electrical output capacity of approximately 250 MW each. Steam produced in the Nooter/Erikson heat recovery/steam generator (HRSG) sections of the unit is routed to a Toshiba manufactured steam turbine/generator for additional generation capacity. The address of the facility is:

Florida Power & Light West County Energy Center
20505 State Road 80
Loxahatchee, Florida 33470
Palm Beach County

1.1 TEST DESCRIPTION AND PURPOSE

The purpose of the testing was to demonstrate that the combustion turbine meets the emission compliance limits as stated in the facility's permit. This document is the emissions compliance test report for Unit 2A combusting fuel oil at base load. Testing was conducted in accordance with the approved protocol previously submitted by Air Hygiene, Inc. Testing was conducted to determine emissions compliance for nitrogen oxides, carbon monoxide, volatile organic compounds, ammonia slip and opacity. Nitrogen oxides (NO_X) were determined by EPA Reference Methods 7E & 20. EPA Method 10 was used for carbon monoxide (CO) determination. Volatile Organic Compounds (VOC) were tested using EPA Method 25A. Testing for ammonia slip was conducted using EPA CTM-027. Diluent oxygen (O_2) and carbon dioxide (CO_2) were

measured by EPA Method 3A. Opacity was determined by a certified VE evaluator using EPA Method 9.

Three 1-hour tests were conducted at Base load, firing on fuel oil. All testing was conducted at the stack.

All procedures and quality control guidelines specified in the appropriate methods and the EPA Quality Assurance Handbook for Air Pollution Measurement Systems - Volume III were strictly followed during the test program, in addition to STACS' more stringent internal quality control standards.

1.2 TEST SCHEDULE

Testing was conducted on August 4, 2011 for the Base load level conditions firing fuel oil.

1.3 TEST REPORT ORGANIZATION

Section 2.0 of this document provides a brief description of the process, and the sampling location. Section 3.0 presents a summary of the test results. Section 4.0 outlines the procedures and test methods used, and Section 5.0 discusses the quality assurance/quality control measures followed during sampling and analysis. Sample calculations, field data sheets, analytical data, quality assurance data, process operating data, and a list of project participants are included in the appendices to this document.

2.0 PROCESS DESCRIPTION AND SAMPLING LOCATION

2.0 PROCESS DESCRIPTION AND SAMPLING LOCATION

2.1 PROCESS DESCRIPTION

The Florida Power & Light West County Energy Center consists of nine, combined cycle Mitsubishi Model 501G combustion turbines in three 3 on 1 configurations (each power block – designated 1, 2 and 3 - consists of three combustion turbines and one steam turbine). The units are normally fired by natural gas as fuel, but distillate fuel oil may also be used as a backup fuel. The three combustion turbines within a power block are designated A, B and C. This test program was conducted for Unit 2A (Power Block 2, CT A) firing fuel oil.

Each combustion turbine includes a compressor, combustor, turbine and electric generator and has a nominal load capacity of approximately 250 MW. Steam produced in the Nooter/Erikson HRSG sections of the unit is routed to a Toshiba steam turbine/generator. Each HRSG is also equipped with a duct burner for additional steam generation.

The combustion turbines utilize good combustion practices as a preliminary control for NO_X and CO. Unit 2A combustion turbine (CT) is a combined cycle Mitsubishi Model 501G equipped with dry low NO_X combustors. Dry low NO_X technology is used to control NO_X emissions while firing natural gas, and a combination of dry low NO_X technology and water injection is used while firing on oil fuel.

Emissions of nitrogen oxides are further controlled by selective catalytic reduction (SCR). The control device uses ammonia injection prior to a catalyst bed to react NO_X in the gas stream to water and nitrogen.

2.2 REFERENCE METHOD SAMPLING LOCATIONS

The exhaust stack is circular at the level of the sampling ports. There are four, 6 inch sampling ports available at the test platform located ninety degrees apart around the circumference of the stack. The sampling location is 138 feet from grade with an outside stack diameter of 264 inches (22'). The nearest upstream flow disturbance is the inlet duct breeching which is 94.5 feet below the test ports (4 diameters). The sampling location is approximately 12 feet (0.6 stack diameters) upstream from the nearest downstream disturbance (the exhaust exit). A schematic diagram of the stack location is attached as Figure 2-1 showing the location of the test ports and test points used during the testing.

ATTACHMENT 7

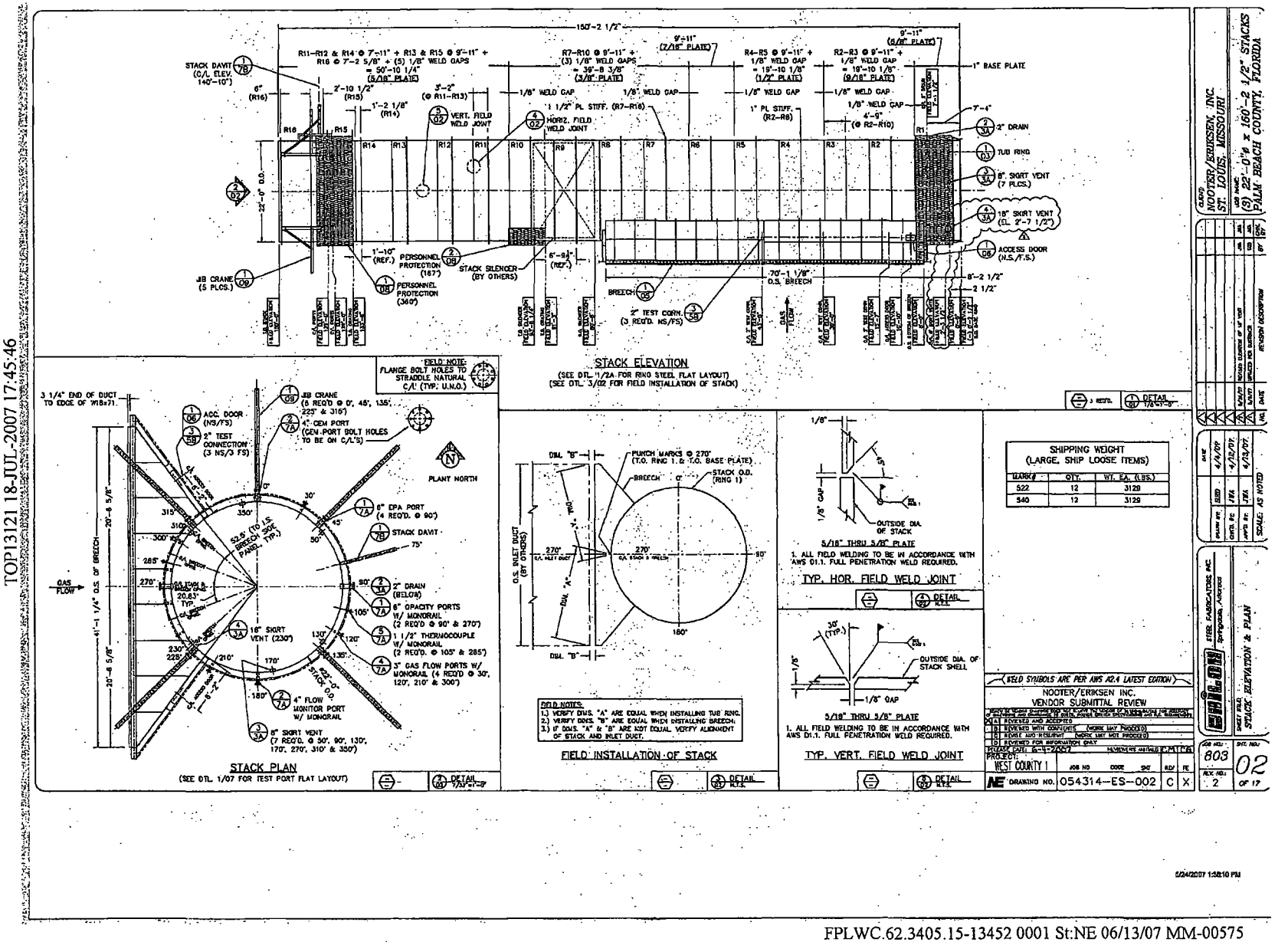

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Figure 2-1

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3.0 EMISSIONS TEST RESULTS

3.0 EMISSIONS TEST RESULTS

Compliance testing was performed for Unit 2A at the Florida Power & Light, West County Energy Center on August 4, 2011 while firing fuel oil.

Three 1-hour test runs were performed for each parameter during the base load compliance tests. The parameters included (NO_X, CO, VOC, CO_2, O_2 and NH_3). In addition, three visible emissions tests for opacity were conducted at base load.

Emissions test results are summarized in Table 3-1. Pollutant concentrations are expressed as the measured native concentrations in parts per million by volume on a dry basis (ppmVd), as concentrations corrected to 15% oxygen (ppmVd@15% O_2) and as emission rates in pounds per million Btu (lb/MMBtu). The results are also provided as mass emission rates in pounds per hour (lb/hr). Example calculations, data summaries, raw field data, analytical data, calibration data and certifications, process operating data, and a list of project participants are included in the appendices.

Table 3-1
Compliance Test Results
West County Energy Center
Loxahatchee, Fl
CT-2A
Base Load - OIL

Parameter	Units	Run #1	Run #2	Run #3	Average	Permit Limit	Meets Limit
Test Date:		8/4/11	8/4/11	8/4/11			
Run Time:		1220-1337	1349-1505	1519-1638			
Operating Parameters:							
Unit Load	MW	202.6	201.6	204.5	202.9		
Fuel Flow Engine:	lb/hr	108772.0	108300.0	109369.0	108,814		
Net Heating Value	BTU/lb	18,349	18,349	18,349	18,349		
Gross Heating Value:	BTU/lb	19,578	19,578	19,578	19,578		
Net Heat Input	MMBtu/hr	1995.9	1987.2	2006.8	1996.6		
Gross Heat Input:	MMBtu/hr	2129.5	2120.3	2141.2	2130.4		
Compressor Inlet Pressure	psig	249.5	248.6	250.6	249.6		
Ammonia Mass Flow	lb/hr	367.6	358.6	351.8	359.3		
Volumetric Flow (Method 19 based)	dscfm	921,222	914,736	916,943	917,634		
Constants							
Fd-Factor	dscf@0%O2/MMBtu	9190.0	9190.0	9190.0			
NOx Conv.Factor	lb/scf-ppmV	1.194E-07	1.194E-07	1.194E-07			
CO Conv.Factor	lb/scf-ppmV	7.260E-08	7.260E-08	7.260E-08			
CO2 Conv.Factor	lb/scf-ppmV	1.142E-07	1.142E-07	1.142E-07			
UHC Conv. Factor	lb/scf-ppmV	4.153E-08	4.153E-08	4.153E-08			
Emissions Data:							
Oxygen (O2)	%V, dry	13.50	13.48	13.42	13.47		
Carbon Dioxide (CO2)	%V, dry	5.38	5.35	5.40	5.38		
Carbon Dioxide (CO2)	lb/MMBtu	159.48	158.10	158.40	158.66		
Nitrogen Oxides (NOx)	ppmV, dry	8.04	9.08	8.79	8.6		
	lb/MMBtu	0.02492	0.02808	0.02695	0.02665		
	ppmvd @ 15% O2	6.4	7.2	6.9	6.9	8.0	yes
	lb/hr (b)	53.1	59.5	57.7	56.8	82.4	yes
Carbon Monoxide (CO)	ppmV, dry	3.42	3.31	3.74	3.5		
	lb/MMBtu	0.00645	0.00621	0.00698	0.00655		
	ppmvd @ 15% O2	2.7	2.6	3.0	2.8	8.0	yes
	lb/hr (b)	13.73	13.18	14.95	13.95	42.0	yes
VOC as methane	ppmvw	0.54	0.24	0.17	0.3		
	ppmvd (d)	0.59	0.26	0.19	0.3		
	lb/MMBtu	0.00064	0.00028	0.00021	0.00038		
	ppmvd @ 15% O2	0.47	0.21	0.15	0.28	6.0	yes
	lb/hr (b)	1.37	0.60	0.44	0.80	19.6	yes
Sulfur	%Wt	0.01	0.01	0.01			
Ammonia (NH3)	ppmV	0.96	0.39	0.41	0.59		
Ammonia (NH3)	ppmvd @ 15% O2	0.77	0.31	0.32	0.47	5.0	yes
Opacity	(%)	0.00	0.00	0.00	0.00	10.0	yes

Notes:
Fuel Factor (Fd) = 9190scf @ 0%O2/MMBtu from 40CFR60 Appendix A, Method 19. S content less than 1 ppm wt.
(b) Mass Emission Rates Calculated using the Volumetric Flowrate determined from the Method 19 approach.
Reference - Source Testing And Consulting Services, Inc. 2011
(d) VOC corrected for % moisture

Table 3-2. **Summary of Ammonia Emissions Data - Unit 2A Oil , Base Load**
West County Energy Center
Compliance Test

Parameter	Units	Run # / Date: / Run Time	Run 1 08/04/11 1218-1324	Run 2 08/04/11 1344-1457	Run 3 08/04/11 1510-1618	Average	Permit Limit	Meets Limit
Sampling Train & Analytical Parameters:								
Total NH3 Collected:	ug		838	341	343			
Metered Volume:	dscf		43.542	44.108	41.898			
Gas Stream Volumetric Flowrate:	dscfm		1,004,687	987,044	968,016			
Oxygen:	%V, dry		13.5	13.5	13.5			
NH3 Emissions:								
NH3 Concentration:	ug/dscf		19.25	7.73	8.19			
NH3 Concentration:	ppmV,dry		0.96	0.39	0.41	0.67		
NH3 Concentration:	ppmV@15%O2		0.77	0.31	0.33	0.54	5.00	Yes
NH3 Emissions	lb/hr		2.56	1.01	1.05	1.78		

Reference: Source Testing And Consulting Services, Inc.

4.0 EPA TEST PROCEDURES

4.0 EPA TEST PROCEDURES

4.1 EPA REFERENCE METHOD TEST PROCEDURES

STACS conducted the compliance tests in accordance with EPA Reference Test Methods as outlined in 40CFR60, Appendix A.

Specifically, the following test procedures were conducted by STACS:

EPA Method 1:	Location of sampling points for isokinetic sampling and velocity traverses for stationary sources.
EPA Method 2:	Determination of stack gas velocity and volumetric flowrate.
EPA Method 3A:	Continuous determination of oxygen and/or carbon dioxide content in the flue gas. A paramagnetic analyzer or fuel cell analyzer is used for O_2 determination. An NDIR analyzer is used for CO_2 determination.
EPA Method 4:	Determination of sample gas moisture content.
EPA Method 9:	Determination of opacity as visible emissions by a qualified and certified visible emissions evaluator.
EPA Method 10:	Carbon Monoxide analysis with a continuous GFC/NDIR emissions monitor.

EPA Method 7E/20: Determination of nitrogen oxides with a chemiluminescent continuous emission monitor.

EPA Method 25A Continuous determination of volatile organic compounds as total hydrocarbons using a flame ionization detector. Analysis is on a wet basis. (Analysis by EPA Method 18 for subtraction of non-reactive methane and ethane was not required since the VOC limit was met as total hydrocarbons).

EPA Conditional Test Method 027 (CTM 027):
Determination of ammonia by isokinetic collection and stabilization into impinger solutions of 0.1 N sulfuric acid. Analysis was conducted by ion chromatography.

All procedures and quality control guidelines specified in the appropriate methods were strictly followed during the test program, in addition to STACS' more stringent internal quality control standards.

4.2 INSTRUMENTAL REFERENCE METHODS

Stack gas emissions of oxides of nitrogen (NO_X), carbon monoxide (CO), and Volatile Organic Compounds (VOC) are measured using continuous instrumental techniques. Diluent oxygen concentration is also measured using continuous instrumental techniques. These tests are performed in accordance with EPA Methods 3A for oxygen, 10 for CO, 20/7E for NO_X, and 25A for VOC as outlined in Title 40, Part 60, Appendix A of the Code of Federal Regulations. Copies of all on-line instrumental reference method data collected during the testing are included in the Appendices to this report. Calibration records are also given with the data. Prior to testing, a stratification test was conducted to determine the number of test points required during subsequent testing.

Flue gas sample is withdrawn from the stack exhaust at a constant rate via a stainless probe through a heated filter and Teflon sample line to the moisture removal system. The moisture removal system (gas conditioner) is designed for minimal contact between condensate and sample gas in order to prevent any reaction between the moisture and the measured pollutants. All components of the sampling and gas conditioning system are fabricated from borosilicate glass, Teflon, or stainless steel. The gas conditioning system consists of a continuously downward Teflon condenser coil (to prevent bubbling) and two glass knockout condenser traps. Moisture is continuously removed from the traps by an external peristaltic pump. The gas conditioning system is cooled in an ice water bath to facilitate complete moisture removal. (The gas conditioning system is bypassed for the Method 25A sample for measurement on a hot-wet basis). Dry gas sample from the gas conditioner is transported to the instrument enclosure via an unheated 1/4-inch O.D. Teflon tube to a teflon-lined diaphragm pump, which delivers positive pressure sample to the instrument system. Flow control valves are used to deliver the gas sample at a regulated positive pressure to the reference method analytical instruments through a Teflon and stainless steel manifold delivery network.

Flow and pressure to all monitors are held constant by monitoring sample and bypass rotameters. A diagram of the instrumental reference method sampling and analysis system used for the test program is given in Figure 4-1.

The sampling system is leak checked by passing known calibration gas standards up through a calibration line to the end of the probe. The gas standards are then pulled back through the sampling probe at stack pressure and subsequently through the entire sampling system to the instrument system. An oxygen analyzer response of less than or equal to 0.5% V to a zero oxygen standard is considered an acceptable leak check.

Analyzer calibration error is calculated by the difference between the known calibration gas concentration and the concentration exhibited by the analyzer. Bias checks are performed by comparing calibration responses through the entire sampling system to these exhibited at the analyzer. EPA Protocol #1, NIST traceable standard calibration gases are used to calibrate the analyzers.

Acceptable system performance checks do not exceed +/-2% calibration error, +/-5% system bias check, +/-3% zero drift, and +/- 3% upscale span drift.

Instrument response time is found by alternating zero nitrogen and upscale span gases through the bias check line and recording the upscale and down scale time. The response time of the CEM sampling system is performed to determine the length of time for the CEMs to respond to changes in the stack gas exhaust stream. Known, Protocol 1 reference gases and zero nitrogen are passed through the heated sample line, sample conditioning system and the manifold delivery network to the continuous emission monitors.

4.3 DATA ACQUISITION

The STACS data acquisition system (DAS) for the CEM analyzers consists of a Microlink 751 USB Data Interface and a proprietary STACS Data Acquisition program. The data are stored on disk as well as on a printed hard copy for each run. The system has 16-bit analog to digital conversion resolution (1 in 64,000) and a scan rate of approximately 1200 readings per minute. Data is averaged and reported by the DAS on a 30 second basis. The averaging time may be changed if desired. The system is capable of displaying the on line results in measured units and corrected to 15% O_2 as well as in lb/MMBtu. Averages are generated immediately at the end of each test run.

4.4 REFERENCE METHOD ANALYZER PRINCIPLES OF OPERATION

4.4.1 METHOD 3A: OXYGEN ANALYSIS

Flue gas sample is continuously analyzed for oxygen by a Servomex Model 1400A paramagnetic instrument. The Servomex 1400A analyzer uses electron paramagnetic resonance to detect the presence of oxygen molecules. Unlike most substances, oxygen has a triplet electron ground state, which leaves one electron unpaired, making it a paramagnetic molecule. This electron may have one of two quantum spin states (m_s = +/- 2). By applying an alternating electromagnetic field of the proper frequency, the Servomex 1400A O_2 analyzer induces resonance between the two spin quantum states. In effect, the O_2 analyzer measures the electromagnetic energy absorbed by O_2 molecules at the resonant frequency.

4.4.2 METHOD 7E: OXIDES OF NITROGEN ANALYSIS

A Thermo Electron Model 42C HL instrument is used to analyze NO_X. The principle of operation of this instrument is a chemiluminescent reaction in which ozone (O_3) reacts with nitric oxide (NO) to form oxygen (O_2) and nitrogen dioxide (NO_2). During this reaction, a photon with a specific ultraviolet wavelength is emitted which is detected by a photomultiplier tube. The instrument is capable of analyzing total oxides of nitrogen ($NO + NO_2$) by thermally converting NO_2 to NO in a separate reaction chamber prior to the photomultiplier tube, if desired. The analyzer is operated in the NO_X mode during sampling. A converter efficiency test is performed on the ThermoElectron Model 42C HL before the test series.

4.4.3 METHOD 10: CARBON MONOXIDE ANALYSIS

A TECO 48 Gas Filter Correlation Non-Dispersive Infrared (GFC/NDIR) analyzer was used for continuous CO analysis. The principle of operation of this analyzer is similar to traditional NDIR analyzers in that it relies on selective absorption; whereby, particular bandwidths of infrared energy are absorbed by a species based on its molecular orbital structure. Gas filter correlation NDIR differs from NDIR in the detection mechanism and

because the GFC/NDIR does not require a reference cell. Infrared radiation passes through a rotating filter, through the sample cell and to the detector. The chopper wheel of the GFC/NDIR is a rotating disk separated into two chambers where one half is filled with nitrogen and the other half is filled with pure CO. These partitions act as alternating gas filters for the incident IR radiation from the IR source. The CO gas filter side acts to produce a signal that cannot be further attenuated by CO in the sample cell and is used as a reference signal. The nitrogen filter allows all incident radiation to pass. Carbon monoxide in the sample cell will therefore, attenuate the signal proportionally to concentration. This is considered the measurement cycle. Any other gases which absorb infrared radiation are absorbed equally during both the measurement and reference cycles, providing a real-time reference and minimal interferences. The detector for this analyzer is a lead-selenium photo detector.

4.4.4 METHODS 25A AND 18: VOC MEASUREMENT

EPA Method 25A is used to measure VOC expressed as total hydrocarbons on a hot, wet basis. The results are reported as parts per million by volume as methane basis (ppmC). Methane in air is the calibration standard. A gas sample is extracted from the source through a heated sample line and a glass fiber filter, directly into a hydrocarbon analyzer. The analyzer uses the flame ionization detector (FID) principle to detect hydrocarbons on a continuous basis. The fuel used for the FID is a 40% hydrogen/60% helium blend in order to minimize any synergy effects associated with the observed oxygen and moisture levels. Since the THC measurement is taken on a wet basis, it must be corrected for moisture prior to correction for oxygen. The moisture for the correction was taken from the average Method 4 results measured during isokinetic testing.

4.5 MANUAL SAMPLING METHODS

4.5.1 AMMONIA SAMPLING AND ANALYSIS – CTM 027

Ammonia sampling was conducted using EPA Conditional Test Method 027. The sampling train consists of the following sequential components: a glass nozzle, a glass

or quartz filter apparatus, a heated glass sampling probe, three impingers containing a solution of 0.1 N Sulfuric Acid and an impinger containing silica gel. Samples are collected isokinetically as described in EPA Method 5. Each test was at least 60 minutes in duration. Samples were recovered using HPLC grade water.

Analysis is conducted using ion chromatography according to the procedures of CTM-027.

All sampling and analysis solvents are reagent grade or better. All glassware used for sampling and analysis are thoroughly cleaned with hot, soapy water, rinsed with hot water, rinsed with distilled / deionized water and rinsed with 0.1N H_2 SO_4 prior to use.

4.5.5 METHOD 9: VISIBLE EMISSIONS MEASUREMENT

Opacity was measured as visible emissions by a qualified and certified observer. The observer must be field certified every six months to remain current. A copy of the observer's certification is included in the appendices to this report. During the tests, the observer records visible emissions readings in 5% opacity increments every 15 seconds during the one hour test run.

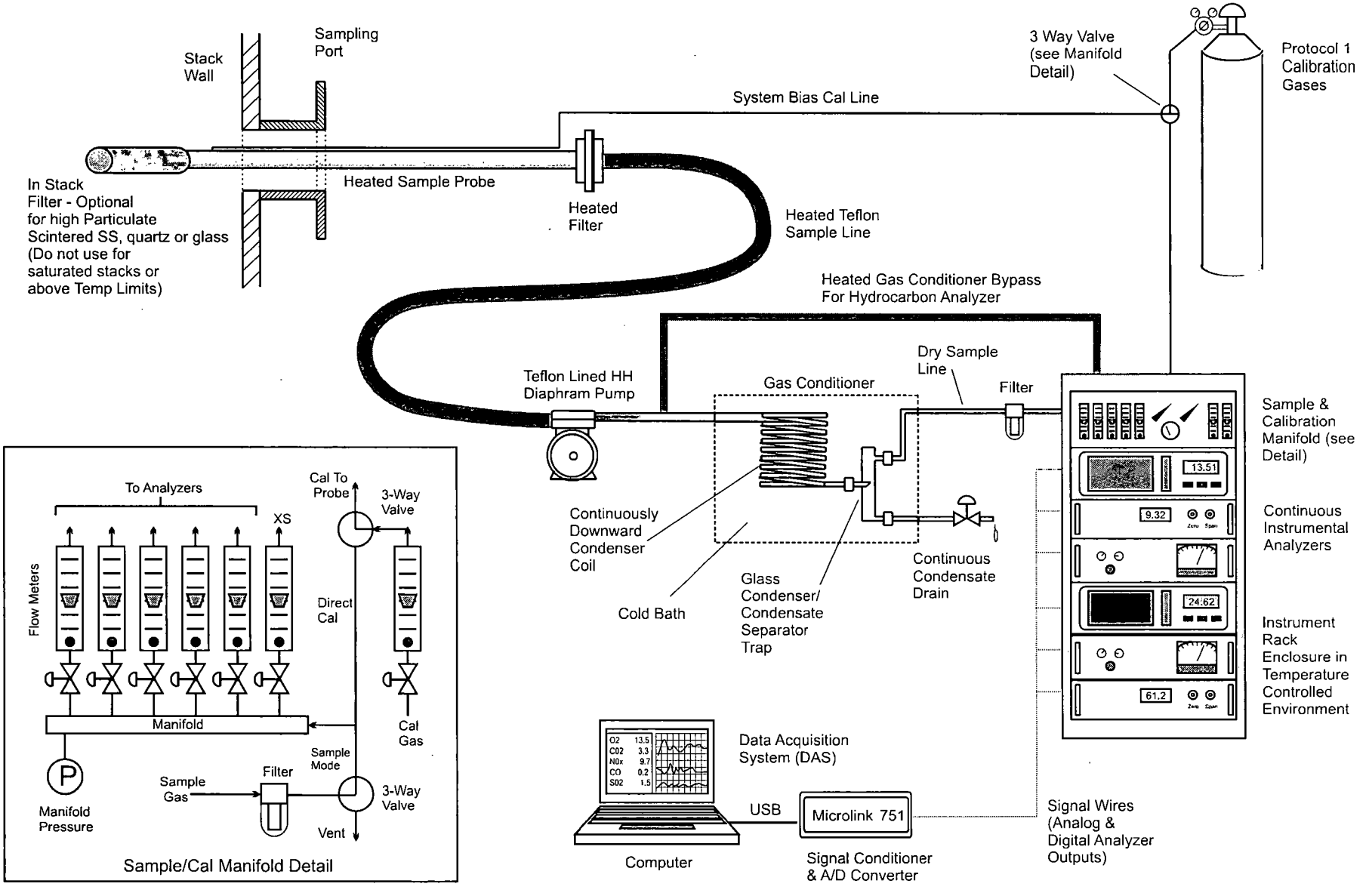


Figure 4-1. Schematic Diagram of STACS Instrumental Reference Method System

5.0 QUALITY ASSURANCE/QUALITY CONTROL

5.0 QUALITY ASSURANCE/QUALITY CONTROL

The objective of the overall QA/QC program is to provide guidelines in terms of accuracy and precision that can be used to assess the uncertainty in the results and to substantiate the data in terms of the use of accepted procedures. Quality Control can be defined as the use of operational techniques and activities, which sustain good quality data. Adherence to accepted sampling and analytical methods and procedures (and specifically noting any aberrations or exceptions to these procedures) is an example of quality control. Quality Assurance includes all those planned and systematic activities necessary to ensure that the accuracy and precision of the results meet the needs of the testing program. Quality Assurance programs can be internal or external.

Both internal and external programs are important to the overall integrity of the data. The internal QA program includes the activities planned by routine operators and analysts to provide an assessment of test data precision (and accuracy). Examples of implementation of an internal QA measure are routine calibration checks to assess the bias and drift of an analyzer after each test run. The measurement system bias is an indicator of the accuracy of the system and the drift is an indication of the precision of the measurements. External QA programs are those activities planned or conducted by an outside party such as FP&L, B&V, FDEP or Palm Beach County officials which ensure that QC guidelines are followed and provide an indicator of the accuracy of the data. Examples of external QA procedures implemented by an outside entity would include review of the test matrix, observation of selected testing to ensure proper techniques will be followed, submission of independent performance audits, and review of the final testing data.

The quality assurance/quality control measures for sampling and analysis included in the following documents were strictly followed during the emissions test program, except as

noted below and elsewhere in this document. The procedures are incorporated by reference into the quality assurance program for this effort as they apply to the collection, analysis, and calculation of pollutant concentrations and mass emission rates from the unit.

The Code of Federal Regulations, Title 40, Part 60, Appendix A., EPA Methods 1-4, 3A, 7E, 9, 10, 25A, EPA CTM-027.

The Quality Assurance Handbook for Air Pollution Measurement Systems - Volume III - Stationary Source Specific Methods (EPA-600/4-77-027b) Sections 3.0-3.4.

The following sections provide a brief synopsis of the internal QA program that was used for this test effort.

5.1 CALIBRATIONS AND DRIFT ASSESSMENTS

At the beginning of each test day, the EPA Reference Method 7E, 10, 25A and 3A test equipment is calibrated, and adjusted as required, on a two-point basis. EPA Protocol #1, NIST traceable standard calibration gases are used to calibrate the analyzers. Subsequently, additional calibration standards are introduced to the analyzers to check the linearity of the instrument response. If the linearity of the instrument is within +/-2% of full scale of the calibration standard value, the calibration is accepted. Otherwise, corrective maintenance is performed, and the instrument is re-calibrated. During this time, bias checks are also performed by introducing calibration standards directly to the instrument manifold and through the entire sampling system and comparing the results.

Calibration checks are performed through the entire sampling system at the conclusion of each test run to determine calibration drift and any change in sample system bias. If instrument drift is less than the required 2% of scale, then no corrective action is required. The calibration data is included in the Appendices of this report. All data was corrected for calibration drift and bias.

5.2 NO_2 CONVERTER EFFICIENCY

Prior to testing, an NO_2 to NO converter efficiency test is performed as prescribed in EPA Method 7E and 20. The procedure used for testing the converter efficiency is given below:

- Fill a leak-free Tedlar bag approximately half full with an NO in N_2 blend.
- Fill the remainder of the bag with 0.1 UHP grade air.
- Immediately attach the NO/Air mixture to the inlet of the NO_X monitor.
- Allow the monitor to sample the gas in the bag for 30 minutes.

As the O_2 and NO in the bag are exposed to each other a reaction occurs which changes the NO to NO_2. Attenuation in response over time of greater than two percent absolute indicates that the converter efficiency is unacceptable.

5.3 LEAK CHECKS

Since all calibrations are performed through the entire sampling system, leak-checks are incorporated in each calibration. The criterion used for this test is an oxygen response to a zero gas of less than 0.5% O_2. Leak checks are also incorporated into the zero and span drift checks at the end of each run since the calibration gas is passed through the entire sampling system for each post test drift check. In addition, STACS conducts a vacuum leak check prior to initial sampling.

5.4 MANUAL SAMPLING METHODS QA/QC

The STACS Manual Methods QA/QC program for this test series includes all of the QA/QC guidelines given in EPA Methods 1-5 and CTM-027 except as noted below and elsewhere in this document. Primary components of the QA/QC program for the manual sampling techniques are listed below:

- Equipment Calibrations - including pre-test and post-test calibrations of meter boxes, thermocouples, and pitot tubes. Sampling nozzles are also calibrated on site.

- Equipment Leak Checks - including pre- and post-test sample train leak checks, meter and pump leak checks, and pitot leak checks. All sampling train leak rates must be less than the maximum acceptable leak rate of 0.02 cubic feet per minute. Sample train leak checks are performed at a vacuum of at least the highest observed during sampling. Leak checks are documented on the field data sheets.

- Careful monitoring and documentation of sample train critical parameters including temperatures, velocity pressure, meter pressure, and sample vacuum. Final impinger temperature is maintained below 68 degrees F.

- Preliminary measurements to aid in calculating the sampling K-factor used to determine isokinetic sampling rate.

- Maintaining an isokinetic sampling rate so that the velocity though the sampling nozzle matches the surrounding flue gas steam velocity to within +/- 10%.

Documentation of isokinetic sampling rates is provided in the data summaries in the test report.

Specific measures that are observed to ensure the integrity of collection of the ammonia samples include but are not limited to:

- Pre-test cleaning for sampling glassware consisting of washing with hot soapy water (Alconox), followed by three hot water rinses, followed by three rinses with double distilled/deionized water. In the field, the impingers are rinsed with recovery solution (0.1 N H_2SO_4) prior to charging.

- The 0.1 N H_2SO_4 recovery solution is reagent grade or better and is certified to have a low ammonium background.

- Collection of reagent/trip blanks in the field for the acid used in sampling and water used in recovery of the particulate matter samples.

- All sample-exposed surfaces of the sampling train are constructed of glass or Teflon, except for the sampling probe, filter and nozzle which are quartz.

- The sampling time for each test run is at least 1 hour in duration.

- Sample bottles are EPA Class B pre-cleaned ICHEM amber borosilicate glass jars. The jars are 500-1000 ml in capacity and have Teflon lined screw caps.

- Samples are issued a unique identification number in the field and logged on an appropriate chain of custody form. The form includes the date and time of collection, the site, unit and sampling location ID, as well as the test condition.

The liquid level of each sample is clearly marked on the containers. Teflon tape is used to seal the sample jar lids.

APPENDIX A
SAMPLE CALCULATIONS

To Convert Pollutant Concentrations to 15% O_2

$$ppmV\ @\ 15\%\ O_2 = ppmV\ x\ \frac{5.9}{20.9 - O_2}$$

Where:

ppmV = the concentration of the pollutant in parts per million by volume, dry basis.

O_2 = the concentration of O_2 in percent volume, dry basis.

ppmV @ 15% O_2 = the concentration of the pollutant normalized to 15% O_2.

To Convert Pollutant Concentrations to lb/MMBtu

$$lb/MMBtu = ppmV \times CONV \times F_d \times \frac{20.9}{20.9 - O_2}$$

Where:

ppmV = the concentration of the pollutant in parts per million by volume, dry basis.

O_2 = the concentration of oxygen in percent volume, dry basis.

lb/MMBtu = Pollutant emission rate in pounds per million Btu.

F_d = the oxygen based dry F-factor for a given fuel in scf@0% O_2/MMBtu (9190 for Distillate Fuel Oil and 8710 for natural gas).

CONV = conversion factor to convert pollutant concentration in ppmV to lb/scf.

CONV = 1.194×10^{-7} lb/scf from ppmV for NO_X (as NO_2).

TO BIAS/DRIFT CORRECT RAW DATA FOR EPA METHODS 3A, 7E, AND 10:

$$C_{gas} = (\overline{C} - C_o)\frac{C_{ma}}{C_m - C_o}$$

Eq. 6C-1

Where:

C_{gas} = Effluent gas concentration, dry basis, ppm V or %V

$\underline{C}$ = Average gas concentration indicated by gas analyzer, dry basis, ppm V or %V

C_o = Average of initial and final system calibration bias check responses for the zero gas, ppm V or %V

C_m = Average of initial and final system calibration bias check responses for the upscale calibration gas, ppm V or %V

C_{ma} = Actual concentration of the upscale calibration gas, ppm V or %V

Compliance Test Results

Plant	**Loxahatchee**	
Unit #	**CT-2A**	**BASE OIL**

Bias/Drift Adjustment Calculation Spreadsheet

Fuel		OIL	OIL	OIL
Load		BASE	BASE	BASE
Run No.		1	2	3
Date		8/4/11	8/4/11	8/4/11
Run Time		1220-1337	1349-1505	1519-1638
BIAS ADJUSTED VALUES	**PRELIM**	**Post-Run 1**	**Post-Run 2**	**Post-Run 3**
O2 (%V,dry)	#N/A	13.50	13.48	13.42
CO2 (%V,dry)	#N/A	5.38	5.35	5.40
NOX (ppmV,dry)	#N/A	8.04	9.08	8.79
corr. NOx, ppmvd @ 15% O2	#N/A	6.41	7.22	6.93
CO (ppmV,dry)	#N/A	3.42	3.31	3.74
corr. CO, ppmvd @ 15% O2	#N/A	2.73	2.63	2.95
THC (ppmV,wet)	#N/A	0.54	0.24	0.17
corr. UHC, ppmvw @ 15% O2	#N/A	0.43	0.19	0.14
RAW AVERAGES	**PRELIM**			
O2 (%V,dry)	#N/A	13.47	13.45	13.41
CO2 (%V,dry)	#N/A	5.58	5.56	5.60
NOX (ppmV,dry)	#N/A	8.06	9.21	8.86
CO (ppmV,dry)	#N/A	3.48	3.38	3.84
THC (ppmV,wet)	#N/A	0.49	0.20	0.14
ZERO BIAS				
O2 (%V,dry)	0.04	0.08	0.04	0.05
CO2 (%V,dry)	0.15	0.25	0.21	0.20
NOX (ppmV,dry)	0.03	0.00	-0.07	0.03
CO (ppmV,dry)	0.00	0.05	0.02	0.04
THC (ppmV,wet)	-0.09	-0.04	-0.04	-0.03
BIAS CHECKS				
O2 (%V,dry)	9.00	9.00	9.00	9.01
CO2 (%V,dry)	9.10	9.10	9.10	9.10
NOX (ppmV,dry)	8.80	8.84	9.00	8.75
CO (ppmV,dry)	9.15	9.20	9.20	9.30
THC (ppmV,wet)	3.05	3.02	2.97	3.00
BIAS GAS VALUES				
O2 (%V,dry)	9.00	9.00	9.00	9.00
CO2 (%V,dry)	8.90	8.90	8.90	8.90
NOX (ppmV,dry)	8.80	8.80	8.80	8.80
CO (ppmV,dry)	9.06	9.06	9.06	9.06
THC (ppmV,wet)	3.00	3.00	3.00	3.00
Zero Drift/Bias (% of span)	**SPAN**			
O2 (%V,dry)	21.98	0.18%	-0.18%	0.05%
CO2 (%V,dry)	18.95	0.53%	-0.21%	-0.05%
NOX (ppmV,dry)	22.05	-0.14%	-0.32%	0.45%
CO (ppmV,dry)	21.94	0.23%	-0.14%	0.09%
THC (ppmV,wet)	8.60	0.58%	0.00%	0.12%
Upspan Drift/Bias (% of span)	**SPAN**			
O2 (%V,dry)	21.98	0.00%	0.00%	0.05%
CO2 (%V,dry)	18.95	0.00%	0.00%	0.00%
NOX (ppmV,dry)	22.05	0.18%	0.73%	-1.13%
CO (ppmV,dry)	21.94	0.23%	0.00%	0.46%
THC (ppmV,wet)	8.60	-0.35%	-0.58%	0.35%
Zero System Bias (% of span) 5%	**Initial Linearity**	**1**	**2**	**3**
O2 (%V,dry)	0.04	0.18%	0.00%	0.05%
CO2 (%V,dry)	0.15	0.53%	0.32%	0.26%
NOX (ppmV,dry)	-0.02	0.09%	-0.23%	0.23%
CO (ppmV,dry)	0.00	0.23%	0.09%	0.18%
THC (ppmV,wet)	-0.08	0.47%	0.47%	0.58%
Upscale System Bias (% of span) 5%	**Initial Linearity**	**1**	**2**	**3**
O2 (%V,dry)	9.00	0.00%	0.00%	0.05%
CO2 (%V,dry)	9.10	0.00%	0.00%	0.00%
NOX (ppmV,dry)	8.80	0.18%	0.91%	-0.23%
CO (ppmV,dry)	9.10	0.46%	0.46%	0.91%
THC (ppmV,wet)	2.94	0.93%	0.35%	0.70%

Note: Span is defined as the value of the upscale calibration gas.

Reference: Source Testing And Consulting Services, Inc - 2011

SUMMARY OF EMISSIONS SAMPLING DATA

Plant: West County Energy C	**Location:** Loxahatchee, FL	Run #	1	2	3	AVERAGE
Condition: Base Oil		Date:	4-Aug-11	4-Aug-11	4-Aug-11	
Unit: 2A	**Method:** CTM-027	Start Time:	12:18	13:44	15:10	
Parameter	**Units**	Stop Time:	13:24	14:57	16:18	
Sampling Time	min.		60	60	60	60
AMBIENT DATA:						
Ambient Temperature	deg. F		85	98	98	93.67
Location Height above Pbar reading	feet		140	140	140	140
Barometric Pressure	in. Hg		29.90	29.90	29.90	29.90
Corrected Barometric Pressure (to location)	in. Hg		29.76	29.76	29.76	29.76
GAS METER DATA:						
Dry Gas Meter Correction Factor (gamma)	Dimensionless		0.9916	0.9916	0.9916	0.9916
Average Meter Differential Pressure	in. H2O		1.7773	1.5155	1.5091	1.6006
Absolute Meter Pressure	in. Hg		29.89	29.87	29.87	29.88
Average Meter Temperature	degrees F		97.5	85.0	105.3	95.9
Metered Dry Sample Gas Volume	dcf		46.406	45.988	45.311	45.902
Average Sampling Rate	dscfm		0.726	0.735	0.698	0.720
Standard Metered Volume	dscf		43.542	44.108	41.898	43.182
Standard Metered Volume	dscm		1.2331	1.2491	1.1865	1.2229
MOISTURE DATA:						
Moisture Determination Technique:			Gravimetric	Gravimetric	Gravimetric	
Saturated Vapor Pressure of Water:	inches Hg		29.9000	29.9000	29.9000	29.9000
Vapor Phase Moisture Content at Saturation:	% Volume		100.00	100.00	100.00	100.00
Total Condensate Collected	grams H20		94.3	95.9	99.9	96.70
Standard Volume of Water Vapor	scf		4.446	4.522	4.710	4.559
Measured Moisture Content	mole fraction		0.0927	0.0930	0.1011	0.0956
Measured Moisture Content	% Volume		9.27	9.30	10.11	9.56
Gas Stream Vapor Phase Moisture (Bs):	% Volume		9.27	9.30	10.11	9.56
FIXED GAS DATA:						
Oxygen Concentration, Dry Basis	% Volume		13.5	13.5	13.5	13.5
Carbon Dioxide Concentration, Dry Basis	% Volume		5.4	5.4	5.4	5.4
Nitrogen Concentration, Dry Basis (gas balance)	% Volume		81.1	81.1	81.1	81.1
Gas Molecular Weight, Dry Basis	lb/lb-mole		29.404	29.404	29.404	29.404
Gas Molecular Weight, Wet Basis	lb/lb-mole		28.347	28.344	28.251	28.314
Fo Calculated:	Dimensionless		1.370	1.370	1.370	1.370
Excess Air:	%		170.31	170.31	170.31	170.31
Ultimate CO2	%V,d		15.25	15.25	15.25	15.25
DUCT CONFIGURATION:						
Duct Geometry (C = Circular, R = Rectangular)			C	C	C	
Duct Dimensions (Diameter)	inches		264	264	264	
Effective Duct Diameter (De)	inches		264	264	264	264
Stack Cross-Sectional Area	ft2		380.13	380.13	380.13	380.13
DUCT GAS CONDITIONS:						
Static Pressure of Gas Stream	in. H2O		-0.420	-0.390	-0.390	-0.400
Absolute Duct Gas Pressure	in. Hg		29.729	29.731	29.731	29.731
Gas Stream Temperature	degrees F		324.42	330.04	344.54	333.00
Gas Stream Wet Bulb Temperature:	degrees F		0	0	0	0
VELOCITY DATA:						
Pitot Tube Coefficient	Dimensionless		0.84	0.84	0.84	0.84
Avg. Square Root of Velocity Head	(in. H2O)^0.5		1.0477	1.0333	1.0301	1.0370
Gas Stream Velocity	ft/sec		72.588	71.845	72.398	72.277
Gas Stream Velocity	ft/min		4355.27	4310.71	4343.90	4336.62
Gas Stream Velocity	meters/min		1327.48	1313.91	1324.02	1321.80
Gas Stream Velocity	mi/hr		49.495	48.988	49.365	49.283
FLOWRATE/ENGLISH UNITS						
Actual Volumetric Flow Rate, Wet Basis	acfm		1655578.8	1638642.7	1651257.4	1648493.0
Standard Volumetric Flow Rate, Wet Basis	scfm		1107279.8	1088230.4	1076844.1	1090784.8
Standard Volumetric Flow Rate, Dry Basis	dscfm		1004686.9	987043.6	968016.1	986582.2
Standard Volumetric Flow Rate, Wet Basis	kscfh		66436.79	65293.82	64610.64	65447.09
Standard Volumetric Flow Rate, Dry Basis	kdscfh		60281.21	59222.62	58080.96	59194.93
Total Mass Flow Rate (wet)	kpph		4887.90	4803.18	4737.47	4809.52
FLOWRATE/METRIC UNITS						
Actual Volumetric Flow Rate, Wet Basis	acmm		46885.99	46406.36	46763.61	46685.32
Standard Volumetric Flow Rate, Wet Basis	scmm		31358.17	30818.68	30496.22	30891.02
Standard Volumetric Flow Rate, Dry Basis	dscmm		28452.73	27953.07	27414.22	27940.01
ISOKINETIC SAMPLING DATA:						
Nozzle Diameter:	inches		0.220	0.220	0.220	0.220
Area of Nozzle:	ft^2		2.640E-04	2.640E-04	2.640E-04	2.640E-04
Isokinetic Sampling Rate:	%I		104.1	107.3	103.9	105.1

West County Energy C Loxahatchee, FL | Base Oil | Unit: 2A

MOISTURE CONTENT DETERMINATION
EPA METHOD 4 CALCULATIONS

Parameter		Definition	Units
Pm	-	Absolute Meter Pressure	in. Hg
Po	-	Average Meter Differential Pressure	in. H2O
Ps	-	Absolute Stack Gas Pressure	in. Hg
Pstd	-	Absolute Standard Barometric Pressure (29.92)	in. Hg
Pb	-	Absolute Barometric Pressure	in. Hg
K	-	Standard Volume H2O Vapor/Unit Weight Liquid Constant = 0.04715 cu.ft/g	ft3/g
Tm	-	Average Meter Temperature	degrees R
Tstd	-	Absolute Standard Temperature (528_R)	degrees R
DGMC	-	Dry Gas Meter Correction Factor (gamma)	Dimensionless
Vlcg	-	Total Condensate Collected	grams H20
Vm	-	Metered Dry Sample Gas Volume	dcf
Vmstd	-	Metered Volume at Standard Conditions(528_R, 1atm)	dscf
Vwstd	-	Volume of Water Vapor Collected, at Standard Conditions (528_R, 1atm)	scf
W(sat)	-	Vapor Pressure of H2O at Stack Temperature	in. Hg
Bws	-	Moisture Content	mole fraction
Bwd	-	Moisture Content	% Volume

TEST DATA RUN # 1

Pb =	29.9	Tm =	557.4583
Vm =	46.406	Po =	1.777333
Vlcg=	94.3	DGMC =	0.9916
W(sat)=	29.9	Ps =	29.86912

MEASURED MOISTURE CALCULATIONS

Pm	=	Pb +(Po/13.6) =	29.90 + (1.78/13.6) =	30.031	in. Hg
Vmstd	=	$\frac{(Vm)(DGMC)(Pm)(Tstd)}{(Pstd)(Tm)}$ =	$\frac{46.406*0.9916*30.03*528}{29.92*557.5}$ =	43.542	ft3
Vwstd	=	(K)(Vlcg) =	(0.04715)*(94.3) =	4.446	ft3
Bws	=	(Vwstd)/{ (Vwstd)+(Vmstd)}	= 4.446/(4.446+43.542) =	0.0927	mol frac
Bwd	=	(Bws)*100 % =	0.0927*100% =	9.27%	V

SATURATED MOISTURE CALCULATIONS

B(sat)	=	W(sat)/Ps =	29.90/29.87 =	1.001034	mol frac

VAPOR PHASE MOISTURE

Bws = 0.092653 Lower of Measured or Saturated Moisture

Bwd = (Bws)*100 % = 9.27%

West County Energy C Loxahatchee, FL | Base Oil | Unit: 2A

MOLECULAR WEIGHT DETERMINATION
EPA METHOD 3 CALCULATIONS

Parameter		Definition	Units
Md	-	Sample Gas Molecular Weight, Dry Basis	lb/lb-mole
Ms	-	Sample Gas Molecular Weight, Wet Basis	lb/lb-mole
Bws	-	Moisture Content	mole fraction
%CO2	-	Carbon Dioxide Concentration, Dry Basis	% Volume
%CO	-	Carbon Monoxide Concentration, Dry Basis	% Volume
%O2	-	Oxygen Concentration, Dry Basis	% Volume
%N2	-	Nitrogen Concentration, Dry Basis (gas balance)	% Volume
0.32	-	Molecular Weight of Oxygen (O2), divided by 100%	lb/lb-mole
0.28	-	Molecular Weight of Carbon Monoxide, divided by 100%	lb/lb-mole
0.28	-	Molecular Weight of Nitrogen (N2), divided by 100%	lb/lb-mole
0.44	-	Molecular Weight of Carbon Dioxide, divided by 100%	lb/lb-mole
18.0	-	Molecular Weight of Water	lb/lb-mole

TEST DATA RUN # 1

Bws =	0.0927	%CO =	0.00
%N2 =	81.10	%CO2 =	5.40
%O2 =	13.50		

Md = (0.44)(%CO2) + (0.32)(%O2) + (0.28)(%N2 + %CO)

= (0.44)*5.40 + (0.32)*13.50 + (0.28)*(81.10 + 0.00)

= 29.404 lb/lb-mol

Ms = (Md)(1 - Bws) + (18.0)(Bws)

= 29.404*(1 - 0.0927) + 18.0*0.0927

= 28.347 lb/lb-mol

West County Energy C Loxahatchee, FL | Base Oil | Unit: 2A

VELOCITY AND VOLUMETRIC FLOWRATE DETERMINATION
EPA METHOD 2 CALCULATIONS

Parameter		Definition	Units
Cp	-	Pitot Tube Coefficient	Dimensionless
Vs	-	Gas Stream Velocity	ft/sec
Qsd	-	Volumetric Flow Rate at Standard Conditions,Dry Basis	dscfm
Qact	-	Actual Volumetric Flow Rate, Wet Basis	acfm
Bws	-	Moisture Content	mole fraction
Dp	-	Avg. Sq. Root of Velocity Head	(in. H2O)^0.5
Pb	-	Absolute Barometric Pressure	in. Hg
Kp	-	Constant = 89.49 (ft)(lb/lb-mol)(in.Hg^0.5)/(s)(_R)(in.H2O)	
Ts	-	Absolute Gas Stream Temperature	degrees R
Ms	-	Sample Gas Molecular Weight, Wet Basis	lb/lb-mole
Sp	-	Static Pressure of Gas Stream	in. H2O
528	-	Absolute Standard Temperature	degrees R
CSA	-	Stack Cross-Sectional Area	ft2
Ps	-	Absolute Stack Gas Pressure	in. Hg
60	-	Conversion Factor	sec/min.
Pi	-	Constant Ratio ~ 3.1416	Dimensionless
D	-	Duct Diameter	inches

TEST DATA RUN # 1

Ms =	28.347	Cp =	0.84
Bws =	0.0927	Pb =	29.90
Sp =	-0.42	Ts =	784.4
D =	264.00	Dp =	1.0477

Circular Duct

Ps = Pb + (Sp/13.6) = 29.9 + (-0.42/13.6) = 29.87 in.Hg

Vs = (85.49)(Cp)(Dp)*[(Ts)/(Ms*Ps)]^0.5

= 85.49*0.84*1.0477*[784.4/(28.347*29.87)]^0.5

= 72.417 ft/s 72.417 ft/s

CSA = (Pi)[(D)^2]/[(4)(144)] = 3.1416*(264.00^0.5)/(4*144)= 380.133 ft2 380.133

Qact = (Vs)*CSA*60 = 72.417*380.133*60 = 1651694 acfm

$$Qsd = \frac{(Qact)(1-Bws)(528)(Ps)}{(Ts)(29.92)} = \frac{1,651,694.3*(1 - 0.0927)*528*29.87}{784.4*29.92}$$

= 1007050 dscfm 1007050 dscfm

West County Energy C Loxahatchee, FL | Base Oil | Unit: 2A

ISOKINETIC SAMPLING RATE
EPA METHOD 5 CALCULATIONS

Parameter		Definition	Units
K4	-	Constant = 0.09450	
Ts	-	Average Stack Temperature	degrees R
Vmstd	-	Metered Volume at Standard Conditions(528_R, 1atm)	dscf
Ps	-	Absolute Stack Gas Pressure	in. Hg
Vs	-	Gas Stream Velocity	ft/sec
Bws	-	Moisture Content	mole fraction
t	-	Sampling Time Duration	minutes
Dn	-	Sample Nozzle Diameter	inches
An	-	Area of Nozzle	ft2
%I	-	Percent of Isokinetic Sampling	%

TEST DATA RUN # 1

Ts =	784.4167	Vs =	72.41744
Vmstd =	43.54181	Bws =	0.092653
Ps =	29.86912	Dn =	0.22
t =	60		

An = (Pi)[(Dn)^2]/[(4)(144)]

= 3.1416*(0.220^0.5)/(4*144)

= 2.64E-04 ft2 — 2.64E-04 ft2

$$\%I = \frac{K4(Ts)(Vmstd)}{(Ps)(Vs)(An)(t)(1-Bws)}$$

$$= \frac{0.09450*784.4*43.542}{29.87*72.42*0.0002640*60.0(1 - 0.093)}$$

= 103.83 % Isokinetic — 103.8298 %

West County Energy Center Loxahatchee, FL Base Oil Unit: 2A

NITROGEN DIOXIDES MASS EMISSIONS
EPA METHOD 19 CALCULATIONS

Parameter		Definition	Units
ppmV	-	Bias Corrected Concentration of Nitrogen Oxides (by volume, dry)	ppmV
O2	-	Concentration of Oxygen (percent volume, dry)	%V
ER	-	Nitrogen Oxides Emission Rate	lb/hr
EB	-	Nitrogen Oxides Emission Rate	lb/MMBtu
LHV	-	Lower Heating Value	BTU/lb
HHV	-	Higher Heating Value	BTU/lb
HN	-	Net Heat Input	MMBTU/hr
HB	-	Gross Heat Input	MMBTU/hr
Mf	-	Mass Flowrate of Fuel	lb/hr
60	-	Conversion Factor (minutes/hour)	min/hr
10^6	-	Conversion Factor (Btu/MMBtu)	Btu/MMBtu
Fd	-	Fd Factor (9190 for Oil, 8710 for Natural Gas)	dscf/MMBtu
1.194E-07	-	Conversion Factor (ppm NOx to lb/scf)	ppm NOx / lb/scf

TEST DATA RUN # 1

Fd	=	9190
LHV	=	18349
HHV	=	19578
Mf	=	108772

$$EB = \frac{ppmV * Fd * 1.194E\text{-}07 * 20.9}{(20.9 - O2)} = \frac{8.04 * 9{,}190 * 1.194E\text{-}07 * 20.9}{(20.9 - 13.50)} = 0.026952 \text{ lb/MMBtu}$$

$$HN = \frac{LHV * Mf}{10^6} = \frac{18{,}349 * 108{,}772}{10^6} = 1995.86 \text{ MMBtu/hr}$$

$$HB = \frac{HHV * Mf}{10^6} = \frac{19{,}578 * 108{,}772}{10^6} = 2129.54 \text{ MMBtu/hr}$$

$$ER = RB * HB = 0.024918 \text{ lb/hr}$$

West County Energy Ce Loxahatchee, FL | Base Oil | Unit: 2A

AMMONIA EMISSIONS
EPA CTM-027 - CALCULATIONS

Parameter		Definition	Units
Mam	-	Total Mass of Ammonia Collected	ug (micrograms)
Vmstd	-	Metered Volume at Standard Conditions(528_R, 1atm)	dscf
Qsd	-	Volumetric Flow Rate at Standard Conditions,Dry Basis	dscfm
Cs	-	Concentration of Ammonia in Gas	ug/dscf
ppmVd	-	Concentration of Ammonia in Gas	parts per million, volume, dry
ER	-	Ammonia Emission Rate	lb/hr
10^-6	-	Conversion Factor (ug/g)	ug/g
453.6	-	Conversion Factor (g/lb)	g/lb
60	-	Conversion Factor (minutes/hour)	min/hr
385.3	-	Conversion Factor (dscf/lb*mol)	dscf/lb*mol
O2	-	Measured oxygen concentration	% volume
MW	-	Molecular Weight of Ammonia (17 lb/lb*mol)	lb/lb-mol

TEST DATA RUN # Run 1

Mam = 838
Vmstd = 43.54181
Qsd = 1,004,687

$$Cs = \frac{(Mam)}{(Vmstd)} = \frac{838}{43.54181} = 19.24587 \text{ ug/dscf}$$

$$ppmVd = \frac{(Cs)*385.3}{(453.6)*(MW)} = \frac{19.2459*385.3}{453.6*17} = 0.9616 \text{ ppmVd}$$

$$\text{ppmVd @ 15\% oxygen} = \frac{(ppmVd)*(20.9-15)}{(20.9-O2)} = 0.7667 \text{ ppmVd @ 15\% oxygen}$$

$$ER = (Cs)(Qsd)(60)/10^{-6}/453.6 = 19.2459*1,004,686.9*60/10^{6}/453.6 = 2.5577 \text{ lb/hr}$$

APPENDIX B
FIELD DATA SHEETS

BASE COMPLIANCE RUN 1
Run Time
1220-1337

PORT	POINT	O2 %V, d	CO2 %V, d	CO ppmVd	Nox ppmVd	HC ppmvw	CO ppmVd @ 15% O2	NOx ppmVd @ 15% O2	HC ppmVd @ 15% O2
A	1	13.55	5.57	3.38	7.54	0.49	2.72	6.05	0.39
A	2	13.50	5.58	3.52	7.32	0.49	2.81	5.84	0.39
A	3	13.47	5.59	3.57	7.24	0.49	2.83	5.74	0.39
B	1	13.45	5.60	3.65	9.12	0.61	2.89	7.23	0.48
B	2	13.45	5.59	3.60	8.64	0.54	2.85	6.85	0.43
B	3	13.46	5.59	3.53	8.10	0.49	2.80	6.43	0.39
C	1	13.45	5.57	3.12	8.56	0.46	2.47	6.78	0.37
C	2	13.46	5.57	3.38	8.78	0.46	2.68	6.96	0.36
C	3	13.46	5.57	3.30	8.99	0.46	2.62	7.13	0.36
D	1	13.47	5.58	3.66	7.89	0.49	2.91	6.27	0.39
D	2	13.48	5.57	3.56	7.33	0.48	2.83	5.83	0.38
D	3	13.47	5.58	3.50	7.20	0.47	2.78	5.72	0.37
Avg:		13.47	5.58	3.48	8.06	0.49	2.77	6.40	0.39
Max:		13.55	5.60	3.66	9.12	0.61	2.91	7.23	0.48
Min:		13.45	5.57	3.12	7.20	0.46	2.47	5.72	0.36

BASE COMPLIANCE RUN 2
Run Time
1349-1505

PORT	POINT	O2 %V, d	CO2 %V, d	CO ppmVd	Nox ppmVd	HC ppmvw	CO ppmVd @ 15% O2	NOx ppmVd @ 15% O2	HC ppmvw @ 15% O2
A	1	13.45	5.55	3.43	10.57	0.17	2.72	8.37	0.14
A	2	13.45	5.56	3.43	10.01	0.18	2.72	7.93	0.15
A	3	13.46	5.56	3.47	9.27	0.21	2.75	7.35	0.17
B	1	13.44	5.57	3.31	9.48	0.19	2.62	7.50	0.15
B	2	13.45	5.57	3.30	8.93	0.16	2.62	7.07	0.13
B	3	13.45	5.57	3.23	8.66	0.18	2.56	6.86	0.14
C	1	13.45	5.57	3.36	9.87	0.23	2.66	7.82	0.19
C	2	13.46	5.57	3.43	9.81	0.25	2.72	7.77	0.20
C	3	13.47	5.57	3.35	9.72	0.21	2.66	7.71	0.17
D	1	13.46	5.56	3.29	8.22	0.24	2.61	6.52	0.19
D	2	13.46	5.56	3.55	8.18	0.22	2.82	6.49	0.17
D	3	13.44	5.57	3.41	7.81	0.15	2.70	6.18	0.12
Avg:		13.45	5.56	3.38	9.21	0.20	2.68	7.30	0.16
Max:		13.47	5.57	3.55	10.57	0.25	2.82	8.37	0.20
Min:		13.44	5.55	3.23	7.81	0.15	2.56	6.18	0.12

BASE COMPLIANCE RUN 3
Run Time
1519-1632

PORT	POINT	O2 %V, d	CO2 %V, d	CO ppmVd	Nox ppmVd	HC ppmvw	CO ppmVd @ 15% O2	NOx ppmVd @ 15% O2	HC ppmvw @ 15% O2
A	1	13.46	5.57	3.27	8.60	0.03	2.59	6.82	0.02
A	2	13.44	5.59	3.62	7.93	0.05	2.86	6.27	0.04
A	3	13.43	5.60	3.87	7.94	0.09	3.06	6.27	0.07
B	1	13.44	5.59	3.37	9.63	0.05	2.66	7.62	0.04
B	2	13.44	5.58	3.27	8.81	0.03	2.58	6.97	0.02
B	3	13.46	5.57	3.21	8.26	0.01	2.54	6.55	0.01
C	1	13.40	5.61	4.20	9.96	0.31	3.30	7.83	0.24
C	2	13.35	5.64	4.06	9.93	0.05	3.17	7.77	0.04
C	3	13.34	5.64	4.13	10.37	0.17	3.22	8.09	0.13
D	1	13.40	5.61	4.06	8.31	0.24	3.19	6.53	0.19
D	2	13.38	5.62	4.29	8.35	0.27	3.36	6.55	0.21
D	3	13.40	5.61	4.54	8.37	0.29	3.57	6.58	0.23
Avg:		13.41	5.60	3.82	8.87	0.13	3.01	6.99	0.10
Max:		13.46	5.64	4.54	10.37	0.31	3.57	8.09	0.24
Min:		13.34	5.57	3.21	7.93	0.01	2.54	6.27	0.01

Source Testing and Consulting Services, Inc.

Instrumental Reference Method On-Line Data Unit # CT2A

	Parameter	O2	CO2	CO	NOx	THC	Comments
	Units	%V,d	ppmVd	ppmVd	ppmVd	ppmVd	
3-Aug-11	15:11:28	20.80	0.17	0.73	8.80	-4.57	NOx CONVEFF
3-Aug-11	15:11:58	20.80	0.16	0.74	18.55	-4.57	NOx CONVEFF
3-Aug-11	15:12:28	20.80	0.16	0.74	22.24	-4.57	NOx CONVEFF
3-Aug-11	15:12:58	20.80	0.16	0.72	23.31	-4.57	NOx CONVEFF
3-Aug-11	15:13:28	20.80	0.16	0.74	23.68	-4.57	NOx CONVEFF
3-Aug-11	15:13:58	20.80	0.16	0.74	23.86	-4.57	NOx CONVEFF
3-Aug-11	15:14:28	20.80	0.16	0.74	24.05	-4.57	NOx CONVEFF
3-Aug-11	15:14:58	20.80	0.17	0.74	24.11	-4.57	NOx CONVEFF
3-Aug-11	15:15:28	20.80	0.17	0.74	23.94	-4.57	NOx CONVEFF
3-Aug-11	15:15:58	20.80	0.17	0.74	23.83	-4.57	NOx CONVEFF
3-Aug-11	15:16:28	20.80	0.17	0.74	23.67	-4.57	NOx CONVEFF
3-Aug-11	15:16:58	20.80	0.17	0.74	24.11	-4.58	NOx CONVEFF
3-Aug-11	15:17:28	20.79	0.17	0.74	29.14	-4.58	NOx CONVEFF
3-Aug-11	15:17:58	20.79	0.17	0.74	35.35	-4.57	NOx CONVEFF
3-Aug-11	15:18:28	20.79	0.18	0.74	35.76	-4.58	NOx CONVEFF
3-Aug-11	15:18:58	20.79	0.18	0.74	35.64	-4.58	NOx CONVEFF
3-Aug-11	15:19:28	20.79	0.18	0.74	35.30	-4.58	NOx CONVEFF
3-Aug-11	15:19:58	20.79	0.18	0.74	35.36	-4.58	NOx CONVEFF
3-Aug-11	15:20:28	20.79	0.18	0.74	35.39	-4.58	NOx CONVEFF
3-Aug-11	15:20:58	20.79	0.18	0.74	35.68	-4.57	NOx CONVEFF
3-Aug-11	15:21:28	20.79	0.18	0.74	35.85	-4.58	NOx CONVEFF
3-Aug-11	15:21:58	20.79	0.18	0.72	35.56	-4.58	NOx CONVEFF
3-Aug-11	15:22:28	20.79	0.18	0.71	35.66	-4.57	NOx CONVEFF
3-Aug-11	15:22:58	20.79	0.18	0.71	35.51	-4.57	NOx CONVEFF
3-Aug-11	15:23:29	20.79	0.18	0.71	35.36	-4.57	NOx CONVEFF
3-Aug-11	15:23:58	20.79	0.18	0.71	35.84	-4.57	NOx CONVEFF
3-Aug-11	15:24:28	20.79	0.18	0.71	35.94	-4.57	NOx CONVEFF
3-Aug-11	15:24:58	20.78	0.18	0.71	35.60	-4.57	NOx CONVEFF
3-Aug-11	15:25:29	20.78	0.19	0.71	35.37	-4.57	NOx CONVEFF
3-Aug-11	15:25:58	20.78	0.18	0.70	35.52	-4.57	NOx CONVEFF
3-Aug-11	15:26:28	20.78	0.19	0.70	35.54	-4.57	NOx CONVEFF
3-Aug-11	15:26:58	20.78	0.19	0.72	35.36	-4.58	NOx CONVEFF
3-Aug-11	15:27:29	20.78	0.19	0.73	35.77	-4.57	NOx CONVEFF
3-Aug-11	15:27:58	20.78	0.19	0.73	35.40	-4.57	NOx CONVEFF
3-Aug-11	15:28:28	20.78	0.19	0.73	35.78	-4.58	NOx CONVEFF
3-Aug-11	15:28:58	20.78	0.19	0.73	35.94	-4.57	NOx CONVEFF
3-Aug-11	15:29:28	20.78	0.19	0.73	35.50	-4.57	NOx CONVEFF
3-Aug-11	15:29:58	20.78	0.20	0.74	35.35	-4.57	NOx CONVEFF
3-Aug-11	15:30:28	20.78	0.20	0.73	35.51	-4.57	NOx CONVEFF
3-Aug-11	15:30:58	20.78	0.20	0.74	35.58	-4.57	NOx CONVEFF
3-Aug-11	15:31:28	20.78	0.20	0.76	35.51	-4.57	NOx CONVEFF
3-Aug-11	15:31:58	20.78	0.20	0.76	35.54	-4.57	NOx CONVEFF
3-Aug-11	15:32:28	20.78	0.20	0.73	35.50	-4.57	NOx CONVEFF
3-Aug-11	15:32:58	20.78	0.20	0.73	35.51	-4.57	NOx CONVEFF
3-Aug-11	15:33:28	20.78	0.20	0.73	35.61	-4.57	NOx CONVEFF
3-Aug-11	15:33:58	20.78	0.20	0.73	35.94	-4.57	NOx CONVEFF
3-Aug-11	15:34:28	20.78	0.21	0.73	35.72	-4.57	NOx CONVEFF
3-Aug-11	15:34:58	20.78	0.21	0.73	35.36	-4.57	NOx CONVEFF
3-Aug-11	15:35:28	20.78	0.21	0.73	35.61	-4.57	NOx CONVEFF

Source Testing and Consulting Services, Inc.

Instrumental Reference Method On-Line Data Unit # CT2A

	Parameter	O2	CO2	CO	NOx	THC	Comments
	Units	%V,d	ppmVd	ppmVd	ppmVd	ppmVd	
3-Aug-11	15:35:58	20.78	0.21	0.73	35.36	-4.57	NOx CONVEFF
3-Aug-11	15:36:28	20.78	0.21	0.74	35.44	-4.58	NOx CONVEFF
3-Aug-11	15:36:58	20.78	0.21	0.75	35.35	-4.57	NOx CONVEFF
3-Aug-11	15:37:28	20.77	0.22	0.73	35.58	-4.58	NOx CONVEFF
3-Aug-11	15:37:58	20.78	0.21	0.76	35.52	-4.58	NOx CONVEFF
3-Aug-11	15:38:28	20.78	0.21	0.76	35.94	-4.58	NOx CONVEFF
3-Aug-11	15:38:58	20.77	0.22	0.76	35.54	-4.58	NOx CONVEFF
3-Aug-11	15:39:28	20.77	0.21	0.76	35.90	-4.58	NOx CONVEFF
3-Aug-11	15:39:58	20.77	0.22	0.75	35.61	-4.58	NOx CONVEFF
3-Aug-11	15:40:28	20.77	0.22	0.76	35.30	-4.57	NOx CONVEFF
3-Aug-11	15:40:58	20.77	0.22	0.76	35.35	-4.57	NOx CONVEFF
3-Aug-11	15:41:28	20.77	0.22	0.76	35.68	-4.57	NOx CONVEFF
3-Aug-11	15:41:58	20.77	0.22	0.76	35.74	-4.58	NOx CONVEFF
3-Aug-11	15:42:28	20.77	0.22	0.76	35.35	-4.58	NOx CONVEFF
3-Aug-11	15:42:58	20.77	0.22	0.76	35.41	-4.58	NOx CONVEFF
3-Aug-11	15:43:28	20.77	0.22	0.76	35.91	-4.57	NOx CONVEFF
3-Aug-11	15:43:59	20.77	0.22	0.76	35.36	-4.58	NOx CONVEFF
3-Aug-11	15:44:28	20.77	0.23	0.76	35.52	-4.58	NOx CONVEFF
3-Aug-11	15:44:58	20.77	0.23	0.77	35.54	-4.58	NOx CONVEFF
3-Aug-11	15:45:28	20.77	0.23	0.74	35.55	-4.58	NOx CONVEFF
3-Aug-11	15:45:59	20.77	0.23	0.74	35.64	-4.58	NOx CONVEFF
3-Aug-11	15:46:28	20.77	0.23	0.74	35.41	-4.58	NOx CONVEFF
3-Aug-11	15:46:58	20.77	0.23	0.74	35.57	-4.58	NOx CONVEFF
3-Aug-11	15:47:28	20.77	0.23	0.74	35.35	-4.58	NOx CONVEFF
3-Aug-11	15:47:59	20.77	0.23	0.77	35.78	-4.57	NOx CONVEFF
Average:	**15:48:25**	**20.78**	**0.20**	**0.74**	**33.28**	**-4.57**	**NOx CONVEFF**
4-Aug-11	8:56:15	21.96	18.99	0.00	-0.05	3.30	Cal:O2=21.98 CO2=18.95
4-Aug-11	8:56:20	21.96	18.99	0.00	-0.05	3.29	Cal:O2=21.98 CO2=18.95
4-Aug-11	8:56:25	21.95	19.00	0.00	-0.06	3.28	Cal:O2=21.98 CO2=18.95
4-Aug-11	8:56:30	21.95	18.99	0.00	-0.04	3.26	Cal:O2=21.98 CO2=18.95
4-Aug-11	8:56:36	21.95	18.99	0.00	-0.01	3.24	Cal:O2=21.98 CO2=18.95
4-Aug-11	8:56:40	21.96	18.99	0.00	0.00	3.23	Cal:O2=21.98 CO2=18.95
4-Aug-11	8:56:45	21.96	18.99	0.00	0.03	3.24	Cal:O2=21.98 CO2=18.95
4-Aug-11	8:56:50	21.96	19.00	0.00	0.04	3.22	Cal:O2=21.98 CO2=18.95
4-Aug-11	8:56:55	21.96	19.00	0.00	0.02	3.16	Cal:O2=21.98 CO2=18.95
4-Aug-11	8:57:00	21.96	19.00	0.00	-0.05	3.17	Cal:O2=21.98 CO2=18.95
Average:	**8:57:00**	**21.96**	**19.00**	**0.00**	**-0.02**	**3.24**	**Cal:O2=21.98 CO2=18.95**
Gas Value:	8:57:00	21.98	18.95	0	#N/A	#N/A	O2=21.98 CO2=18.95
Diff%ofSpan	8:57:00	-0.11%	0.26%	0.00%	#N/A	#N/A	
4-Aug-11	8:58:22	21.96	19.01	-0.01	-0.08	3.06	Cal:O2=21.98 CO2=18.95
4-Aug-11	8:58:27	21.97	19.00	0.00	-0.16	3.05	Cal:O2=21.98 CO2=18.95
4-Aug-11	8:58:32	21.97	19.00	0.00	-0.16	3.07	Cal:O2=21.98 CO2=18.95
4-Aug-11	8:58:38	21.97	19.01	0.00	-0.16	3.09	Cal:O2=21.98 CO2=18.95
4-Aug-11	8:58:42	21.97	19.00	-0.01	-0.16	3.09	Cal:O2=21.98 CO2=18.95
4-Aug-11	8:58:47	21.97	19.01	0.00	-0.14	3.09	Cal:O2=21.98 CO2=18.95
4-Aug-11	8:58:52	21.97	19.01	0.00	-0.11	3.09	Cal:O2=21.98 CO2=18.95
4-Aug-11	8:58:57	21.97	19.01	0.00	-0.09	3.11	Cal:O2=21.98 CO2=18.95
4-Aug-11	8:59:02	21.97	19.01	0.00	-0.03	3.10	Cal:O2=21.98 CO2=18.95
4-Aug-11	8:59:08	21.97	19.01	0.00	-0.04	3.07	Cal:O2=21.98 CO2=18.95

Source Testing and Consulting Services, Inc.

Instrumental Reference Method On-Line Data Unit # CT2A

	Parameter	O2	CO2	CO	NOx	THC	Comments
	Units	%V,d	ppmVd	ppmVd	ppmVd	ppmVd	
4-Aug-11	8:59:12	21.97	19.01	0.00	0.00	3.10	Cal:O2=21.98 CO2=18.95
4-Aug-11	8:59:17	21.97	19.01	0.01	0.00	3.08	Cal:O2=21.98 CO2=18.95
4-Aug-11	8:59:22	21.97	19.01	0.03	0.03	3.09	Cal:O2=21.98 CO2=18.95
4-Aug-11	8:59:27	21.98	19.01	0.03	0.04	3.09	Cal:O2=21.98 CO2=18.95
4-Aug-11	8:59:33	21.97	19.01	0.03	0.04	3.09	Cal:O2=21.98 CO2=18.95
4-Aug-11	8:59:37	21.98	19.01	0.03	0.05	3.14	Cal:O2=21.98 CO2=18.95
4-Aug-11	8:59:42	21.97	19.01	0.02	0.03	3.15	Cal:O2=21.98 CO2=18.95
4-Aug-11	8:59:47	21.97	19.01	0.01	0.03	3.14	Cal:O2=21.98 CO2=18.95
4-Aug-11	8:59:52	21.97	19.02	0.00	0.00	3.13	Cal:O2=21.98 CO2=18.95
4-Aug-11	8:59:58	21.97	19.02	0.00	0.00	3.12	Cal:O2=21.98 CO2=18.95
4-Aug-11	9:00:02	21.97	19.01	0.00	0.00	3.12	Cal:O2=21.98 CO2=18.95
Average:	**9:00:04**	**21.97**	**19.01**	**0.01**	**-0.04**	**3.10**	**Cal:O2=21.98 CO2=18.95**
Gas Value:	9:00:04	21.98	18.95	0	#N/A	#N/A	O2=21.98 CO2=18.95
Diff%ofSpan	9:00:04	-0.04%	0.34%	0.01%	#N/A	#N/A	
4-Aug-11	9:04:33	9.03	9.11	0.66	0.33	3.04	Cal:O2=9 CO2=8.9
4-Aug-11	9:04:38	9.03	9.11	0.64	0.33	3.06	Cal:O2=9 CO2=8.9
4-Aug-11	9:04:44	9.03	9.11	0.67	0.33	3.07	Cal:O2=9 CO2=8.9
4-Aug-11	9:04:48	9.03	9.11	0.65	0.33	3.07	Cal:O2=9 CO2=8.9
4-Aug-11	9:04:53	9.03	9.11	0.66	0.32	3.07	Cal:O2=9 CO2=8.9
Average:	**9:04:57**	**9.03**	**9.11**	**0.66**	**0.33**	**3.06**	**Cal:O2=9 CO2=8.9**
Gas Value:	9:04:57	9	8.9	0	#N/A	#N/A	O2=9 CO2=8.9
Diff%ofSpan	9:04:57	0.15%	1.18%	0.72%	#N/A	#N/A	
4-Aug-11	9:05:56	9.03	9.11	0.68	0.22	3.03	Cal:O2=9 CO2=8.9
4-Aug-11	9:06:01	9.03	9.11	0.68	0.23	3.00	Cal:O2=9 CO2=8.9
4-Aug-11	9:06:06	9.03	9.11	0.68	0.23	3.03	Cal:O2=9 CO2=8.9
4-Aug-11	9:06:11	9.03	9.11	0.68	0.23	3.03	Cal:O2=9 CO2=8.9
4-Aug-11	9:06:17	9.03	9.11	0.68	0.23	3.02	Cal:O2=9 CO2=8.9
4-Aug-11	9:06:21	9.03	9.11	0.68	0.23	3.02	Cal:O2=9 CO2=8.9
4-Aug-11	9:06:26	9.03	9.11	0.68	0.23	3.04	Cal:O2=9 CO2=8.9
4-Aug-11	9:06:31	9.03	9.11	0.70	0.23	3.04	Cal:O2=9 CO2=8.9
4-Aug-11	9:06:36	9.03	9.11	0.71	0.23	3.05	Cal:O2=9 CO2=8.9
4-Aug-11	9:06:42	9.03	9.11	0.70	0.22	3.02	Cal:O2=9 CO2=8.9
4-Aug-11	9:06:46	9.03	9.11	0.71	0.23	3.16	Cal:O2=9 CO2=8.9
4-Aug-11	9:06:51	9.03	9.11	0.71	0.22	3.04	Cal:O2=9 CO2=8.9
4-Aug-11	9:06:56	9.03	9.11	0.71	0.22	3.00	Cal:O2=9 CO2=8.9
Average:	**9:07:00**	**9.03**	**9.11**	**0.69**	**0.23**	**3.04**	**Cal:O2=9 CO2=8.9**
Gas Value:	9:07:00	9	8.9	0	#N/A	#N/A	O2=9 CO2=8.9
Diff%ofSpan	9:07:00	0.14%	1.17%	0.76%	#N/A	#N/A	
4-Aug-11	9:19:04	20.17	0.27	8.58	1.94	-0.07	THC=0
4-Aug-11	9:19:09	20.17	0.27	8.47	1.66	-0.07	THC=0
4-Aug-11	9:19:14	20.17	0.27	8.43	1.24	-0.08	THC=0
4-Aug-11	9:19:19	20.17	0.27	8.32	1.12	-0.07	THC=0
4-Aug-11	9:19:25	20.16	0.27	8.21	0.94	-0.09	THC=0
4-Aug-11	9:19:29	20.15	0.27	8.17	0.72	-0.12	THC=0
Average:	**9:19:33**	**20.17**	**0.27**	**8.36**	**1.27**	**-0.08**	**THC=0**
4-Aug-11	9:19:42	20.14	0.27	8.14	0.44	-0.09	THC=0
4-Aug-11	9:19:47	20.13	0.27	8.11	0.42	-0.09	THC=0
4-Aug-11	9:19:52	20.13	0.27	8.08	0.34	-0.09	THC=0
4-Aug-11	9:19:57	20.12	0.27	8.02	0.32	-0.11	THC=0

Source Testing and Consulting Services, Inc.

Instrumental Reference Method On-Line Data Unit # CT2A

	Parameter	O2	CO2	CO	NOx	THC	Comments
	Units	%V,d	ppmVd	ppmVd	ppmVd	ppmVd	
4-Aug-11	9:20:03	20.12	0.27	7.96	0.24	-0.10	THC=0
Average:	**9:20:06**	**20.13**	**0.27**	**8.06**	**0.35**	**-0.09**	**THC=0**
4-Aug-11	9:21:06	20.64	0.28	2.36	0.03	8.62	THC=8.6
4-Aug-11	9:21:11	20.64	0.28	2.12	0.04	8.59	THC=8.6
4-Aug-11	9:21:16	20.64	0.28	1.94	0.03	8.58	THC=8.6
4-Aug-11	9:21:21	20.64	0.28	1.75	0.03	8.58	THC=8.6
4-Aug-11	9:21:27	20.64	0.28	1.58	0.03	8.57	THC=8.6
4-Aug-11	9:21:31	20.64	0.28	1.46	0.04	8.58	THC=8.6
4-Aug-11	9:21:36	20.64	0.28	1.35	0.04	8.58	THC=8.6
4-Aug-11	9:21:41	20.64	0.28	1.21	0.03	8.55	THC=8.6
4-Aug-11	9:21:46	20.64	0.28	1.10	0.04	8.60	THC=8.6
4-Aug-11	9:21:51	20.64	0.28	1.05	0.04	8.57	THC=8.6
4-Aug-11	9:21:57	20.64	0.28	1.02	0.03	8.58	THC=8.6
4-Aug-11	9:22:01	20.64	0.28	0.96	0.03	8.56	THC=8.6
4-Aug-11	9:22:06	20.64	0.28	0.85	0.03	8.55	THC=8.6
4-Aug-11	9:22:11	20.64	0.28	0.80	0.03	8.57	THC=8.6
4-Aug-11	9:22:16	20.64	0.27	0.81	0.03	8.52	THC=8.6
4-Aug-11	9:22:22	20.63	0.28	0.83	0.03	8.54	THC=8.6
4-Aug-11	9:22:26	20.64	0.28	0.82	0.04	8.56	THC=8.6
4-Aug-11	9:22:31	20.64	0.28	0.81	0.04	8.55	THC=8.6
Average:	**9:22:35**	**20.64**	**0.28**	**1.27**	**0.04**	**8.57**	**THC=8.6**
4-Aug-11	9:23:33	20.63	0.27	0.79	0.04	8.64	
4-Aug-11	9:23:38	20.62	0.27	0.78	0.03	8.66	
4-Aug-11	9:23:42	20.62	0.27	0.78	0.04	8.65	
4-Aug-11	9:23:47	20.62	0.27	0.79	0.03	8.64	
4-Aug-11	9:23:52	20.62	0.27	0.79	0.03	8.64	
4-Aug-11	9:23:57	20.62	0.27	0.78	0.04	8.64	
4-Aug-11	9:24:03	20.62	0.27	0.77	0.03	8.63	
4-Aug-11	9:24:07	20.62	0.27	0.77	0.03	8.62	
4-Aug-11	9:24:12	20.62	0.27	0.77	0.03	8.63	
4-Aug-11	9:24:17	20.62	0.27	0.76	0.03	8.63	
4-Aug-11	9:24:22	20.62	0.27	0.76	0.03	8.63	
4-Aug-11	9:24:29	20.62	0.27	0.76	0.04	8.63	
4-Aug-11	9:24:32	20.62	0.27	0.77	0.03	8.54	
4-Aug-11	9:24:37	20.62	0.27	0.76	0.04	8.59	
4-Aug-11	9:24:42	20.62	0.27	0.77	0.03	8.65	
4-Aug-11	9:24:47	20.62	0.27	0.76	0.04	8.63	
4-Aug-11	9:24:53	20.62	0.27	0.76	0.04	8.63	
4-Aug-11	9:24:57	20.62	0.27	0.76	0.03	8.61	
4-Aug-11	9:25:02	20.62	0.27	0.77	0.03	8.58	
4-Aug-11	9:25:07	20.62	0.27	0.76	0.03	8.62	
4-Aug-11	9:25:12	20.62	0.27	0.76	0.03	8.62	
4-Aug-11	9:25:17	20.62	0.27	0.76	0.03	8.63	
4-Aug-11	9:25:22	20.62	0.27	0.77	0.04	8.63	
4-Aug-11	9:25:27	20.62	0.27	0.76	0.04	8.60	
4-Aug-11	9:25:33	20.62	0.26	0.77	0.04	8.62	
4-Aug-11	9:25:37	20.63	0.26	0.78	0.04	8.61	
4-Aug-11	9:25:42	20.62	0.26	0.76	0.04	8.62	
4-Aug-11	9:25:47	20.62	0.26	0.76	0.03	8.60	

Source Testing and Consulting Services, Inc.

Instrumental Reference Method On-Line Data Unit # CT2A

	Parameter	O2	CO2	CO	NOx	THC	Comments
	Units	%V,d	ppmVd	ppmVd	ppmVd	ppmVd	
4-Aug-11	9:25:52	20.62	0.26	0.77	0.04	8.58	
4-Aug-11	9:25:57	20.62	0.26	0.75	0.03	8.60	
4-Aug-11	9:26:03	20.63	0.26	0.73	0.04	8.61	
4-Aug-11	9:26:07	20.63	0.26	0.74	0.04	8.61	
4-Aug-11	9:26:12	20.63	0.26	0.74	0.04	8.60	
4-Aug-11	9:26:17	20.63	0.26	0.74	0.04	8.59	
4-Aug-11	9:26:22	20.63	0.26	0.74	0.04	8.60	
4-Aug-11	9:26:28	20.63	0.26	0.74	0.04	8.60	
4-Aug-11	9:26:32	20.63	0.26	0.74	0.03	8.59	
4-Aug-11	9:26:37	20.63	0.26	0.73	0.04	8.60	
4-Aug-11	9:26:42	20.63	0.26	0.71	0.04	8.59	
4-Aug-11	9:26:47	20.63	0.26	0.71	0.03	8.61	
4-Aug-11	9:26:53	20.63	0.25	0.72	0.04	8.60	
4-Aug-11	9:26:57	20.63	0.26	0.71	0.04	8.58	
4-Aug-11	9:27:02	20.63	0.25	0.71	0.04	8.57	
4-Aug-11	9:27:07	20.63	0.25	0.68	0.04	8.60	
4-Aug-11	9:27:12	20.63	0.25	0.70	0.04	8.59	
4-Aug-11	9:27:18	20.63	0.25	0.69	0.04	8.59	
4-Aug-11	9:27:22	20.63	0.25	0.66	0.03	8.57	
4-Aug-11	9:27:27	20.63	0.25	0.66	0.03	8.61	
4-Aug-11	9:27:33	20.63	0.25	0.67	0.04	8.60	
4-Aug-11	9:27:37	20.63	0.25	0.67	0.03	8.58	
4-Aug-11	9:27:42	20.64	0.25	0.66	0.03	8.58	
4-Aug-11	9:27:47	20.64	0.25	0.65	0.03	8.60	
4-Aug-11	9:27:52	20.63	0.25	0.64	0.03	8.58	
4-Aug-11	9:27:57	20.63	0.25	0.64	0.03	8.59	
4-Aug-11	9:28:02	20.64	0.25	0.64	0.04	8.58	
4-Aug-11	9:28:07	20.64	0.25	0.63	0.04	8.58	
4-Aug-11	9:28:12	20.64	0.25	0.64	0.03	8.57	
4-Aug-11	9:28:17	20.64	0.25	0.63	0.04	8.57	
4-Aug-11	9:28:22	20.64	0.25	0.63	0.04	8.57	
4-Aug-11	9:28:28	20.64	0.25	0.63	0.04	8.58	
4-Aug-11	9:28:32	20.64	0.25	0.63	0.04	8.58	
4-Aug-11	9:28:37	20.64	0.25	0.63	0.04	8.57	
4-Aug-11	9:28:42	20.64	0.25	0.63	0.04	8.58	
4-Aug-11	9:28:47	20.64	0.25	0.64	0.03	8.59	
4-Aug-11	9:28:53	20.64	0.25	0.66	0.03	8.58	
4-Aug-11	9:28:57	20.63	0.25	0.66	0.04	8.57	
4-Aug-11	9:29:02	20.63	0.25	0.66	0.03	8.57	
4-Aug-11	9:29:07	20.63	0.25	0.66	0.03	8.59	
4-Aug-11	9:29:12	20.63	0.25	0.67	0.03	8.57	
4-Aug-11	9:29:18	20.63	0.25	0.66	0.03	8.58	
4-Aug-11	9:29:22	20.63	0.25	0.66	0.03	8.57	
4-Aug-11	9:29:27	20.62	0.25	0.66	0.03	8.59	
4-Aug-11	9:29:32	20.62	0.25	0.67	0.03	8.58	
4-Aug-11	9:29:37	20.62	0.25	0.66	0.03	8.57	
4-Aug-11	9:29:42	20.62	0.25	0.70	0.03	8.57	
4-Aug-11	9:29:47	20.62	0.25	0.68	0.03	8.57	
4-Aug-11	9:29:52	20.62	0.25	0.69	0.03	8.56	

Source Testing and Consulting Services, Inc.

Instrumental Reference Method On-Line Data Unit # CT2A

	Parameter	O2	CO2	CO	NOx	THC	Comments
	Units	%V,d	ppmVd	ppmVd	ppmVd	ppmVd	
4-Aug-11	9:29:58	20.62	0.25	0.69	0.03	8.57	
4-Aug-11	9:30:02	20.63	0.25	0.69	0.03	8.58	
4-Aug-11	9:30:07	20.63	0.25	0.70	0.03	8.56	
4-Aug-11	9:30:12	20.63	0.25	0.73	0.04	8.57	
4-Aug-11	9:30:17	20.62	0.25	0.72	0.03	8.56	
4-Aug-11	9:30:22	20.63	0.25	0.71	0.03	8.54	
4-Aug-11	9:30:28	20.63	0.25	0.71	0.03	8.54	
4-Aug-11	9:30:32	20.63	0.25	0.71	0.03	8.56	
4-Aug-11	9:30:37	20.63	0.25	0.71	0.03	8.51	
4-Aug-11	9:30:42	20.63	0.25	0.72	0.04	8.55	
4-Aug-11	9:30:47	20.63	0.25	0.72	0.03	8.55	
4-Aug-11	9:30:53	20.63	0.25	0.72	0.03	8.52	
4-Aug-11	9:31:00	20.63	0.25	0.72	0.03	8.56	
4-Aug-11	9:31:02	20.63	0.25	0.71	0.03	8.55	
4-Aug-11	9:31:07	20.63	0.25	0.74	0.03	8.56	
4-Aug-11	9:31:12	20.63	0.25	0.75	0.03	8.56	
4-Aug-11	9:31:18	20.63	0.25	0.74	0.03	8.55	
4-Aug-11	9:31:22	20.63	0.25	0.72	0.04	8.56	
4-Aug-11	9:31:27	20.63	0.25	0.74	0.04	8.56	
4-Aug-11	9:31:32	20.63	0.25	0.74	0.03	8.55	
4-Aug-11	9:31:37	20.63	0.25	0.74	0.04	8.55	
4-Aug-11	9:31:42	20.63	0.25	0.74	0.03	8.55	
4-Aug-11	9:31:47	20.63	0.25	0.73	0.03	8.55	
4-Aug-11	9:31:52	20.63	0.25	0.74	0.03	8.56	
4-Aug-11	9:31:57	20.63	0.25	0.72	0.04	8.55	
4-Aug-11	9:32:02	20.63	0.25	0.70	0.04	8.53	
4-Aug-11	9:32:07	20.63	0.25	0.68	0.03	8.54	
4-Aug-11	9:32:12	20.63	0.25	0.69	0.03	8.51	
4-Aug-11	9:32:17	20.63	0.25	0.69	0.03	8.52	
4-Aug-11	9:32:23	20.63	0.25	0.69	0.03	8.55	
4-Aug-11	9:32:27	20.63	0.25	0.69	0.04	8.51	
4-Aug-11	9:32:32	20.63	0.25	0.69	0.03	8.53	
4-Aug-11	9:32:37	20.63	0.24	0.69	0.03	8.53	
4-Aug-11	9:32:42	20.63	0.25	0.66	0.03	8.48	
4-Aug-11	9:32:47	20.63	0.24	0.66	0.03	8.55	
4-Aug-11	9:32:53	20.63	0.24	0.66	0.04	8.54	
4-Aug-11	9:32:57	20.63	0.24	0.66	0.03	8.55	
4-Aug-11	9:33:02	20.63	0.25	0.67	0.03	8.53	
Average:	**9:33:05**	**20.63**	**0.26**	**0.71**	**0.04**	**8.58**	
4-Aug-11	9:33:32	20.63	0.25	0.69	0.03	8.60	THC=8.6
4-Aug-11	9:33:37	20.63	0.25	0.69	0.03	8.60	THC=8.6
4-Aug-11	9:33:43	20.63	0.25	0.69	0.03	8.60	THC=8.6
4-Aug-11	9:33:47	20.63	0.24	0.69	0.03	8.60	THC=8.6
4-Aug-11	9:33:52	20.63	0.25	0.69	0.03	8.61	THC=8.6
Average:	**9:33:56**	**20.63**	**0.25**	**0.69**	**0.03**	**8.60**	**THC=8.6**
4-Aug-11	9:36:03	20.62	0.25	0.71	0.03	5.98	THC=6
4-Aug-11	9:36:08	20.62	0.24	0.72	0.03	5.98	THC=6
4-Aug-11	9:36:13	20.62	0.24	0.71	0.04	5.97	THC=6
4-Aug-11	9:36:18	20.62	0.24	0.70	0.03	5.95	THC=6

Source Testing and Consulting Services, Inc.

Instrumental Reference Method On-Line Data Unit # CT2A

	Parameter	O2	CO2	CO	NOx	THC	Comments
	Units	%V,d	ppmVd	ppmVd	ppmVd	ppmVd	
4-Aug-11	9:36:23	20.62	0.25	0.70	0.03	5.98	THC=6
4-Aug-11	9:36:29	20.62	0.25	0.70	0.03	5.91	THC=6
4-Aug-11	9:36:33	20.62	0.25	0.71	0.03	5.99	THC=6
4-Aug-11	9:36:38	20.62	0.25	0.70	0.04	5.97	THC=6
4-Aug-11	9:36:43	20.62	0.24	0.70	0.04	5.00	THC=6
4-Aug-11	9:36:48	20.63	0.24	0.71	0.03	5.94	THC=6
4-Aug-11	9:36:53	20.63	0.24	0.71	0.04	5.98	THC=6
4-Aug-11	9:36:59	20.63	0.24	0.71	0.03	5.96	THC=6
4-Aug-11	9:37:03	20.63	0.24	0.70	0.04	5.97	THC=6
4-Aug-11	9:37:08	20.63	0.24	0.70	0.04	5.94	THC=6
4-Aug-11	9:37:13	20.63	0.24	0.71	0.04	5.97	THC=6
4-Aug-11	9:37:18	20.63	0.25	0.71	0.03	5.97	THC=6
4-Aug-11	9:37:24	20.63	0.24	0.71	0.03	5.97	THC=6
4-Aug-11	9:37:32	20.63	0.24	0.71	0.03	5.95	THC=6
4-Aug-11	9:37:33	20.63	0.24	0.71	0.04	5.95	THC=6
Average:	**9:37:33**	**20.63**	**0.24**	**0.71**	**0.03**	**5.91**	**THC=6**
4-Aug-11	9:37:44	20.63	0.24	0.70	0.03	5.97	THC=6
4-Aug-11	9:37:49	20.63	0.24	0.71	0.03	5.98	THC=6
4-Aug-11	9:37:54	20.63	0.24	0.71	0.03	5.96	THC=6
4-Aug-11	9:37:59	20.63	0.24	0.70	0.03	5.94	THC=6
4-Aug-11	9:38:04	20.63	0.24	0.71	0.03	5.93	THC=6
4-Aug-11	9:38:10	20.63	0.24	0.69	0.03	5.97	THC=6
4-Aug-11	9:38:14	20.63	0.25	0.71	0.03	5.98	THC=6
4-Aug-11	9:38:19	20.63	0.24	0.70	0.03	5.96	THC=6
4-Aug-11	9:38:24	20.63	0.24	0.71	0.03	5.95	THC=6
4-Aug-11	9:38:29	20.63	0.24	0.71	0.03	5.96	THC=6
4-Aug-11	9:38:34	20.63	0.24	0.70	0.03	5.97	THC=6
4-Aug-11	9:38:40	20.63	0.24	0.70	0.04	5.95	THC=6
Average:	**9:38:41**	**20.63**	**0.24**	**0.70**	**0.03**	**5.96**	**THC=6**
4-Aug-11	9:40:38	20.63	0.24	0.71	0.03	2.94	Cal:THC=3
4-Aug-11	9:40:43	20.63	0.24	0.70	0.04	2.94	Cal:THC=3
4-Aug-11	9:40:48	20.63	0.24	0.68	0.03	2.95	Cal:THC=3
4-Aug-11	9:40:54	20.63	0.24	0.70	0.03	2.93	Cal:THC=3
4-Aug-11	9:40:58	20.64	0.24	0.70	0.03	2.94	Cal:THC=3
4-Aug-11	9:41:03	20.63	0.24	0.71	0.04	2.94	Cal:THC=3
4-Aug-11	9:41:08	20.63	0.24	0.70	0.03	2.94	Cal:THC=3
4-Aug-11	9:41:13	20.64	0.24	0.71	0.03	2.93	Cal:THC=3
4-Aug-11	9:41:18	20.64	0.24	0.70	0.03	2.93	Cal:THC=3
4-Aug-11	9:41:24	20.64	0.24	0.70	0.03	2.95	Cal:THC=3
Average:	**9:41:26**	**20.63**	**0.24**	**0.70**	**0.03**	**2.94**	**Cal:THC=3**
Gas Value:	9:41:26	0	0	0	#N/A	3	THC=3
Diff%ofSpan	9:41:26	93.79%	1.34%	0.77%	#N/A	-0.06%	
4-Aug-11	9:41:36	20.64	0.24	0.70	0.03	2.92	Cal:THC=3
4-Aug-11	9:41:41	20.63	0.24	0.70	0.03	2.94	Cal:THC=3
4-Aug-11	9:41:46	20.63	0.23	0.70	0.03	2.94	Cal:THC=3
4-Aug-11	9:41:51	20.63	0.23	0.69	0.03	2.90	Cal:THC=3
4-Aug-11	9:41:56	20.63	0.23	0.70	0.04	2.86	Cal:THC=3
4-Aug-11	9:42:01	20.63	0.23	0.70	0.04	2.92	Cal:THC=3
4-Aug-11	9:42:06	20.63	0.23	0.70	0.03	2.92	Cal:THC=3

Source Testing and Consulting Services, Inc.

Instrumental Reference Method On-Line Data Unit # CT2A

	Parameter	O2	CO2	CO	NOx	THC	Comments
	Units	%V,d	ppmVd	ppmVd	ppmVd	ppmVd	
4-Aug-11	9:42:11	20.63	0.23	0.70	0.03	2.89	Cal:THC=3
4-Aug-11	9:42:16	20.63	0.23	0.70	0.03	2.89	Cal:THC=3
4-Aug-11	9:42:21	20.63	0.24	0.70	0.03	2.91	Cal:THC=3
4-Aug-11	9:42:27	20.63	0.24	0.70	0.03	2.90	Cal:THC=3
4-Aug-11	9:42:31	20.63	0.23	0.70	0.03	2.93	Cal:THC=3
4-Aug-11	9:42:36	20.63	0.23	0.70	0.03	2.92	Cal:THC=3
4-Aug-11	9:42:41	20.63	0.24	0.71	0.03	2.92	Cal:THC=3
4-Aug-11	9:42:46	20.63	0.24	0.70	0.03	2.89	Cal:THC=3
4-Aug-11	9:42:52	20.63	0.24	0.70	0.03	2.93	Cal:THC=3
4-Aug-11	9:42:56	20.63	0.24	0.71	0.03	2.90	Cal:THC=3
4-Aug-11	9:43:01	20.63	0.24	0.70	0.03	2.93	Cal:THC=3
4-Aug-11	9:43:06	20.63	0.24	0.70	0.04	2.88	Cal:THC=3
4-Aug-11	9:43:11	20.63	0.24	0.70	0.04	2.88	Cal:THC=3
4-Aug-11	9:43:17	20.63	0.24	0.70	0.03	2.91	Cal:THC=3
4-Aug-11	9:43:21	20.63	0.24	0.70	0.04	2.94	Cal:THC=3
4-Aug-11	9:43:26	20.63	0.24	0.71	0.03	2.96	Cal:THC=3
4-Aug-11	9:43:31	20.63	0.24	0.70	0.03	2.93	Cal:THC=3
4-Aug-11	9:43:36	20.63	0.24	0.70	0.03	2.92	Cal:THC=3
4-Aug-11	9:43:41	20.64	0.24	0.57	0.03	2.89	Cal:THC=3
4-Aug-11	9:43:46	20.63	0.24	0.36	0.03	2.93	Cal:THC=3
4-Aug-11	9:43:51	14.27	0.22	1.95	0.04	2.89	Cal:THC=3
4-Aug-11	9:43:57	2.40	0.16	5.43	0.04	2.87	Cal:THC=3
4-Aug-11	9:44:04	0.41	0.15	8.33	0.04	2.92	Cal:THC=3
4-Aug-11	9:44:06	0.16	0.15	11.02	0.03	2.93	Cal:THC=3
4-Aug-11	9:44:11	0.08	0.14	13.92	-0.16	2.94	Cal:THC=3
4-Aug-11	9:44:16	0.07	0.14	16.36	-0.17	2.90	Cal:THC=3
4-Aug-11	9:44:21	0.07	0.14	18.17	0.53	2.92	Cal:THC=3
4-Aug-11	9:44:27	0.06	0.14	19.64	0.61	2.92	Cal:THC=3
4-Aug-11	9:44:31	0.06	0.14	20.62	1.04	2.95	Cal:THC=3
4-Aug-11	9:44:36	0.06	0.14	21.03	1.04	2.94	Cal:THC=3
4-Aug-11	9:44:41	0.06	0.14	21.27	1.84	2.93	Cal:THC=3
4-Aug-11	9:44:46	0.06	0.14	21.40	1.84	2.92	Cal:THC=3
4-Aug-11	9:44:52	0.05	0.14	21.49	2.84	2.87	Cal:THC=3
4-Aug-11	9:44:56	0.05	0.14	21.65	2.84	2.93	Cal:THC=3
4-Aug-11	9:45:01	0.05	0.14	21.78	3.34	2.93	Cal:THC=3
4-Aug-11	9:45:06	0.05	0.14	21.73	3.34	2.90	Cal:THC=3
4-Aug-11	9:45:11	0.05	0.14	21.68	3.94	2.88	Cal:THC=3
4-Aug-11	9:45:17	0.05	0.14	21.68	3.99	2.91	Cal:THC=3
4-Aug-11	9:45:21	0.05	0.14	21.68	4.24	2.91	Cal:THC=3
4-Aug-11	9:45:26	0.05	0.14	21.68	4.24	2.93	Cal:THC=3
4-Aug-11	9:45:31	0.05	0.14	21.69	4.44	2.91	Cal:THC=3
4-Aug-11	9:45:36	0.05	0.14	21.68	4.44	2.92	Cal:THC=3
4-Aug-11	9:45:41	0.05	0.14	21.68	4.64	2.89	Cal:THC=3
4-Aug-11	9:45:46	0.05	0.14	21.68	4.64	2.90	Cal:THC=3
4-Aug-11	9:45:51	0.05	0.13	21.69	4.74	2.90	Cal:THC=3
4-Aug-11	9:45:56	0.05	0.14	21.69	4.74	3.01	Cal:THC=3
4-Aug-11	9:46:01	0.05	0.14	21.68	4.84	3.10	Cal:THC=3
4-Aug-11	9:46:06	0.05	0.13	21.71	4.84	3.35	Cal:THC=3
4-Aug-11	9:46:11	0.05	0.14	21.71	4.84	3.35	Cal:THC=3

Source Testing and Consulting Services, Inc.

Instrumental Reference Method On-Line Data Unit # CT2A

	Parameter	O2	CO2	CO	NOx	THC	Comments
	Units	%V,d	ppmVd	ppmVd	ppmVd	ppmVd	
4-Aug-11	9:46:16	0.05	0.14	21.71	4.84	3.31	Cal:THC=3
4-Aug-11	9:46:22	0.05	0.14	21.71	4.94	3.37	Cal:THC=3
4-Aug-11	9:46:26	0.05	0.14	21.71	4.94	3.40	Cal:THC=3
4-Aug-11	9:46:31	0.05	0.13	21.71	4.94	3.42	Cal:THC=3
4-Aug-11	9:46:36	0.05	0.14	21.70	4.94	3.41	Cal:THC=3
4-Aug-11	9:46:41	0.05	0.13	21.68	4.94	3.36	Cal:THC=3
4-Aug-11	9:46:46	0.04	0.13	21.71	4.94	3.40	Cal:THC=3
4-Aug-11	9:46:52	0.04	0.14	21.71	4.94	3.40	Cal:THC=3
4-Aug-11	9:46:56	0.04	0.14	21.71	4.94	3.38	Cal:THC=3
4-Aug-11	9:47:01	0.04	0.13	21.71	4.94	3.39	Cal:THC=3
4-Aug-11	9:47:06	0.04	0.14	21.71	4.94	3.37	Cal:THC=3
4-Aug-11	9:47:11	0.04	0.14	21.71	4.94	3.32	Cal:THC=3
4-Aug-11	9:47:17	0.04	0.13	21.71	4.94	3.32	Cal:THC=3
4-Aug-11	9:47:21	0.05	0.13	21.71	4.94	3.32	Cal:THC=3
4-Aug-11	9:47:26	0.05	0.13	21.72	4.94	3.09	Cal:THC=3
4-Aug-11	9:47:31	0.05	0.13	21.71	4.94	3.07	Cal:THC=3
4-Aug-11	9:47:36	0.05	0.13	21.71	4.94	3.09	Cal:THC=3
4-Aug-11	9:47:42	0.04	0.14	21.71	4.94	3.09	Cal:THC=3
4-Aug-11	9:47:46	0.05	0.14	21.71	4.94	3.09	Cal:THC=3
4-Aug-11	9:47:51	0.05	0.14	21.71	4.94	3.07	Cal:THC=3
4-Aug-11	9:47:56	0.05	0.14	21.71	4.94	3.09	Cal:THC=3
4-Aug-11	9:48:01	0.04	0.14	21.71	4.94	3.06	Cal:THC=3
4-Aug-11	9:48:06	0.04	0.14	21.71	4.94	3.07	Cal:THC=3
4-Aug-11	9:48:11	0.04	0.14	21.71	4.94	3.06	Cal:THC=3
4-Aug-11	9:48:16	0.04	0.14	21.70	4.94	3.05	Cal:THC=3
4-Aug-11	9:48:22	0.04	0.14	21.70	4.94	3.06	Cal:THC=3
4-Aug-11	9:48:26	0.04	0.14	21.68	4.94	3.18	Cal:THC=3
4-Aug-11	9:48:31	0.04	0.14	21.70	4.94	3.06	Cal:THC=3
4-Aug-11	9:48:36	0.04	0.14	21.68	4.94	3.09	Cal:THC=3
4-Aug-11	9:48:41	0.04	0.14	21.68	4.93	3.08	Cal:THC=3
4-Aug-11	9:48:46	0.04	0.14	21.69	4.94	3.06	Cal:THC=3
4-Aug-11	9:48:52	0.04	0.14	21.69	4.94	3.19	Cal:THC=3
4-Aug-11	9:48:56	0.04	0.14	21.68	4.94	3.19	Cal:THC=3
4-Aug-11	9:49:01	0.04	0.14	21.64	2.04	3.06	Cal:THC=3
4-Aug-11	9:49:06	0.04	0.14	21.63	2.04	3.31	Cal:THC=3
4-Aug-11	9:49:11	0.04	0.14	21.64	-0.87	3.08	Cal:THC=3
4-Aug-11	9:49:17	0.04	0.14	21.62	1.62	3.04	Cal:THC=3
4-Aug-11	9:49:21	0.04	0.14	21.62	14.06	3.09	Cal:THC=3
4-Aug-11	9:49:26	0.04	0.13	21.60	14.05	3.10	Cal:THC=3
4-Aug-11	9:49:31	0.04	0.14	21.61	26.07	3.07	Cal:THC=3
4-Aug-11	9:49:36	0.04	0.14	21.60	26.07	3.08	Cal:THC=3
4-Aug-11	9:49:42	0.04	0.14	21.58	22.67	3.08	Cal:THC=3
4-Aug-11	9:49:46	0.04	0.14	21.55	22.66	3.05	Cal:THC=3
4-Aug-11	9:49:51	0.04	0.13	21.55	22.16	3.04	Cal:THC=3
4-Aug-11	9:49:56	0.04	0.14	21.56	22.16	3.08	Cal:THC=3
4-Aug-11	9:50:01	0.04	0.13	21.69	22.16	3.09	Cal:THC=3
4-Aug-11	9:50:07	0.04	0.14	22.05	22.16	3.09	Cal:THC=3
4-Aug-11	9:50:11	0.04	0.14	22.10	22.16	3.07	Cal:THC=3
4-Aug-11	9:50:16	0.04	0.14	22.10	22.16	3.06	Cal:THC=3

Source Testing and Consulting Services, Inc.

Instrumental Reference Method On-Line Data Unit # CT2A

	Parameter	O2	CO2	CO	NOx	THC	Comments
	Units	%V,d	ppmVd	ppmVd	ppmVd	ppmVd	
4-Aug-11	9:50:21	0.04	0.14	22.10	22.16	3.06	Cal:THC=3
4-Aug-11	9:50:26	0.04	0.14	22.10	22.16	3.07	Cal:THC=3
4-Aug-11	9:50:31	0.04	0.14	22.09	22.26	3.08	Cal:THC=3
4-Aug-11	9:50:36	0.04	0.14	22.08	22.26	3.08	Cal:THC=3
4-Aug-11	9:50:41	0.04	0.14	22.06	22.10	3.07	Cal:THC=3
4-Aug-11	9:50:47	0.04	0.14	22.05	22.06	3.07	Cal:THC=3
4-Aug-11	9:50:51	0.04	0.14	22.03	22.06	3.06	Cal:THC=3
4-Aug-11	9:50:56	0.04	0.14	22.03	22.06	3.03	Cal:THC=3
4-Aug-11	9:51:01	0.04	0.14	22.02	22.06	3.02	Cal:THC=3
4-Aug-11	9:51:06	0.04	0.14	22.00	22.14	3.06	Cal:THC=3
4-Aug-11	9:51:11	0.04	0.14	22.00	22.16	3.07	Cal:THC=3
4-Aug-11	9:51:17	0.04	0.14	21.99	22.16	3.09	Cal:THC=3
4-Aug-11	9:51:21	0.04	0.14	21.96	22.16	3.04	Cal:THC=3
4-Aug-11	9:51:26	0.04	0.14	21.97	22.16	3.01	Cal:THC=3
4-Aug-11	9:51:31	0.04	0.13	21.97	22.17	3.04	Cal:THC=3
4-Aug-11	9:51:36	0.04	0.14	21.94	22.16	3.05	Cal:THC=3
4-Aug-11	9:51:42	0.04	0.14	21.93	22.16	3.05	Cal:THC=3
4-Aug-11	9:51:46	0.04	0.14	21.92	22.16	3.04	Cal:THC=3
4-Aug-11	9:51:51	0.04	0.14	21.92	22.16	3.05	Cal:THC=3
4-Aug-11	9:51:56	0.04	0.14	21.90	22.16	3.04	Cal:THC=3
4-Aug-11	9:52:01	0.04	0.14	21.89	22.16	3.05	Cal:THC=3
4-Aug-11	9:52:07	0.04	0.14	21.86	22.16	3.05	Cal:THC=3
4-Aug-11	9:52:11	0.04	0.14	21.86	22.16	3.03	Cal:THC=3
4-Aug-11	9:52:16	0.04	0.14	21.86	22.16	3.02	Cal:THC=3
4-Aug-11	9:52:21	0.04	0.14	21.77	22.16	3.03	Cal:THC=3
4-Aug-11	9:52:26	0.04	0.14	21.73	22.16	3.01	Cal:THC=3
4-Aug-11	9:52:31	0.04	0.14	21.72	22.16	3.07	Cal:THC=3
4-Aug-11	9:52:36	0.04	0.14	21.70	22.16	3.06	Cal:THC=3
4-Aug-11	9:52:41	0.04	0.14	21.66	22.16	3.08	Cal:THC=3
4-Aug-11	9:52:47	0.04	0.14	21.66	22.16	3.06	Cal:THC=3
Average:	**9:52:47**	**4.29**	**0.16**	**16.94**	**8.66**	**3.05**	**Cal:THC=3**
4-Aug-11	10:01:18	0.04	0.15	21.80	22.06	3.24	CO=21.94 NOx=22.05
4-Aug-11	10:01:22	0.04	0.15	21.79	22.07	3.23	CO=21.94 NOx=22.05
4-Aug-11	10:01:27	0.04	0.15	21.79	22.06	3.23	CO=21.94 NOx=22.05
4-Aug-11	10:01:32	0.04	0.15	21.79	22.06	3.21	CO=21.94 NOx=22.05
4-Aug-11	10:01:37	0.04	0.15	21.80	22.10	3.22	CO=21.94 NOx=22.05
4-Aug-11	10:01:43	0.04	0.15	21.80	22.17	3.22	CO=21.94 NOx=22.05
4-Aug-11	10:01:47	0.04	0.15	21.80	22.16	3.24	CO=21.94 NOx=22.05
4-Aug-11	10:01:52	0.04	0.15	21.80	22.16	3.20	CO=21.94 NOx=22.05
Average:	**10:01:53**	**0.04**	**0.15**	**21.80**	**22.11**	**3.22**	**CO=21.94 NOx=22.05**
4-Aug-11	10:03:20	0.04	0.15	21.77	22.06	3.23	CO=21.94 NOx=22.05
4-Aug-11	10:03:25	0.04	0.15	21.77	22.06	3.23	CO=21.94 NOx=22.05
4-Aug-11	10:03:30	0.04	0.15	21.77	22.07	3.25	CO=21.94 NOx=22.05
4-Aug-11	10:03:35	0.04	0.15	21.76	22.09	3.25	CO=21.94 NOx=22.05
4-Aug-11	10:03:41	0.04	0.15	21.75	22.16	3.24	CO=21.94 NOx=22.05
4-Aug-11	10:03:45	0.04	0.15	21.74	22.16	3.26	CO=21.94 NOx=22.05
Average:	**10:03:50**	**0.04**	**0.15**	**21.76**	**22.10**	**3.25**	**CO=21.94 NOx=22.05**
4-Aug-11	10:05:47	0.04	0.16	9.16	8.97	3.01	Cal:NO=8.8 co=9.1
4-Aug-11	10:05:51	0.04	0.16	9.10	8.85	3.00	Cal:NO=8.8 co=9.1

Source Testing and Consulting Services, Inc.

Instrumental Reference Method On-Line Data Unit # CT2A

	Parameter	O2	CO2	CO	NOx	THC	Comments
	Units	%V,d	ppmVd	ppmVd	ppmVd	ppmVd	
4-Aug-11	10:05:56	0.04	0.16	9.14	8.85	3.03	Cal:NO=8.8 co=9.1
4-Aug-11	10:06:01	0.04	0.16	9.13	8.85	3.03	Cal:NO=8.8 co=9.1
4-Aug-11	10:06:06	0.04	0.16	9.14	8.83	3.02	Cal:NO=8.8 co=9.1
4-Aug-11	10:06:11	0.04	0.15	9.14	8.75	3.01	Cal:NO=8.8 co=9.1
4-Aug-11	10:06:16	0.04	0.15	9.13	8.75	3.04	Cal:NO=8.8 co=9.1
4-Aug-11	10:06:21	0.04	0.15	9.14	8.75	3.02	Cal:NO=8.8 co=9.1
4-Aug-11	10:06:27	0.04	0.15	9.14	8.75	3.06	Cal:NO=8.8 co=9.1
Average:	**10:06:27**	**0.04**	**0.16**	**9.14**	**8.82**	**3.03**	**Cal:NO=8.8 co=9.1**
Gas Value:	10:06:27	0	8.8	9.1	#N/A	#N/A	NO=8.8 co=9.1
Diff%ofSpan	10:06:27	0.17%	-48.03%	0.04%	#N/A	#N/A	
4-Aug-11	10:07:06	0.04	0.15	9.16	8.88	3.01	Cal:NO=8.8 co=9.1
4-Aug-11	10:07:11	0.04	0.15	9.16	8.75	3.02	Cal:NO=8.8 co=9.1
4-Aug-11	10:07:16	0.04	0.15	9.16	8.73	3.01	Cal:NO=8.8 co=9.1
4-Aug-11	10:07:22	0.04	0.15	9.16	8.85	3.02	Cal:NO=8.8 co=9.1
4-Aug-11	10:07:26	0.04	0.15	9.14	8.85	3.03	Cal:NO=8.8 co=9.1
4-Aug-11	10:07:31	0.04	0.15	9.13	8.85	3.02	Cal:NO=8.8 co=9.1
Average:	**10:07:32**	**0.04**	**0.15**	**9.15**	**8.82**	**3.02**	**Cal:NO=8.8 co=9.1**
4-Aug-11	10:14:23	0.04	0.15	48.02	48.49	3.71	Cal:NO=48.4 co=49.2
4-Aug-11	10:14:28	0.04	0.15	48.02	48.49	3.73	Cal:NO=48.4 co=49.2
4-Aug-11	10:14:33	0.04	0.15	48.05	48.48	3.74	Cal:NO=48.4 co=49.2
4-Aug-11	10:14:39	0.04	0.15	48.06	48.48	3.78	Cal:NO=48.4 co=49.2
4-Aug-11	10:14:43	0.04	0.15	48.07	48.49	3.81	Cal:NO=48.4 co=49.2
4-Aug-11	10:14:48	0.04	0.15	48.08	48.49	3.78	Cal:NO=48.4 co=49.2
4-Aug-11	10:14:53	0.04	0.15	48.08	48.49	3.80	Cal:NO=48.4 co=49.2
Average:	**10:14:56**	**0.04**	**0.15**	**48.05**	**48.49**	**3.77**	**Cal:NO=48.4 co=49.2**
Gas Value:	10:14:56	0	48.4	49.2	#N/A	#N/A	NO=48.4 co=49.2
Diff%ofSpan	10:14:56	0.18%	-268.05%	-1.25%	#N/A	#N/A	
4-Aug-11	10:15:05	0.04	0.15	48.08	48.48	3.82	Cal:NO=48.4 co=49.2
4-Aug-11	10:15:10	0.04	0.15	48.08	48.49	3.84	Cal:NO=48.4 co=49.2
4-Aug-11	10:15:15	0.04	0.15	48.09	48.51	3.87	Cal:NO=48.4 co=49.2
4-Aug-11	10:15:21	0.04	0.15	48.10	48.58	3.89	Cal:NO=48.4 co=49.2
4-Aug-11	10:15:25	0.04	0.15	48.08	48.58	3.88	Cal:NO=48.4 co=49.2
4-Aug-11	10:15:30	0.04	0.15	47.26	48.58	3.88	Cal:NO=48.4 co=49.2
Average:	**10:15:34**	**0.04**	**0.15**	**47.95**	**48.54**	**3.86**	**Cal:NO=48.4 co=49.2**
4-Aug-11	10:25:56	21.92	18.97	19.70	7.19	11.00	RT
4-Aug-11	10:26:01	21.92	18.97	11.51	6.24	11.00	RT
4-Aug-11	10:26:06	21.92	18.98	6.94	4.74	11.00	RT
4-Aug-11	10:26:11	21.92	18.99	4.10	3.74	11.00	RT
4-Aug-11	10:26:16	21.93	18.99	2.50	3.25	11.00	RT
4-Aug-11	10:26:21	21.93	18.99	1.71	2.94	11.00	RT
4-Aug-11	10:26:26	21.93	18.99	1.02	2.21	11.00	RT
4-Aug-11	10:26:32	21.93	19.00	0.66	1.73	11.00	RT
4-Aug-11	10:26:36	21.93	18.99	0.49	1.43	11.00	RT
4-Aug-11	10:26:41	21.93	19.00	0.33	1.34	11.00	RT
4-Aug-11	10:26:46	21.94	19.00	0.25	1.03	11.00	RT
4-Aug-11	10:26:51	21.94	19.00	0.22	0.84	11.00	RT
4-Aug-11	10:26:56	21.94	19.01	0.09	0.71	11.00	RT
4-Aug-11	10:27:01	21.94	19.01	0.02	0.63	11.00	RT
4-Aug-11	10:27:06	21.94	19.01	0.06	0.51	11.00	RT

Source Testing and Consulting Services, Inc.

Instrumental Reference Method On-Line Data Unit # CT2A

	Parameter	O2	CO2	CO	NOx	THC	Comments
	Units	%V,d	ppmVd	ppmVd	ppmVd	ppmVd	
4-Aug-11	10:27:11	21.95	19.01	0.03	0.43	11.00	RT
4-Aug-11	10:27:16	21.95	19.02	0.03	0.37	11.00	RT
4-Aug-11	10:27:21	21.96	19.02	0.03	0.33	11.00	RT
4-Aug-11	10:27:27	21.95	19.02	0.15	0.26	11.00	RT
4-Aug-11	10:27:31	21.48	18.45	1.24	0.23	11.00	RT
4-Aug-11	10:27:36	12.78	10.55	2.88	0.17	11.00	RT
4-Aug-11	10:27:41	2.22	1.03	4.49	0.13	11.00	RT
4-Aug-11	10:27:46	0.37	0.35	6.77	-0.05	11.00	RT
4-Aug-11	10:27:52	0.12	0.28	9.58	-0.17	11.00	RT
4-Aug-11	10:27:56	0.08	0.26	11.80	2.61	11.00	RT
4-Aug-11	10:28:01	0.07	0.24	13.41	3.54	11.00	RT
4-Aug-11	10:28:06	0.07	0.23	15.15	5.04	11.00	RT
4-Aug-11	10:28:11	0.06	0.22	16.78	6.04	11.00	RT
4-Aug-11	10:28:17	0.06	0.21	18.12	8.24	11.00	RT
4-Aug-11	10:28:21	0.06	0.20	19.05	9.34	11.00	RT
4-Aug-11	10:28:26	0.06	0.20	19.85	11.75	11.00	RT
4-Aug-11	10:28:31	0.05	0.19	20.40	13.35	11.00	RT
4-Aug-11	10:28:36	0.05	0.19	20.77	14.55	11.00	RT
4-Aug-11	10:28:41	0.05	0.18	21.10	15.36	11.00	RT
4-Aug-11	10:28:46	0.05	0.18	21.44	16.85	11.00	RT
4-Aug-11	10:28:51	0.05	0.18	21.73	17.85	11.00	RT
4-Aug-11	10:28:57	0.05	0.18	21.88	18.52	11.00	RT
4-Aug-11	10:29:01	0.05	0.18	21.87	18.85	11.00	RT
4-Aug-11	10:29:06	0.05	0.17	21.90	19.57	11.00	RT
4-Aug-11	10:29:11	0.05	0.17	21.90	20.11	11.00	RT
4-Aug-11	10:29:16	0.05	0.17	21.91	20.36	11.00	RT
4-Aug-11	10:29:21	0.05	0.17	21.92	20.55	11.00	RT
4-Aug-11	10:29:27	0.05	0.17	21.92	20.96	11.00	RT
4-Aug-11	10:29:31	0.05	0.17	21.92	21.16	11.00	RT
4-Aug-11	10:29:36	0.05	0.17	21.95	21.28	11.00	RT
4-Aug-11	10:29:41	0.05	0.17	21.96	21.38	11.00	RT
4-Aug-11	10:29:46	0.05	0.17	21.96	21.56	11.00	RT
4-Aug-11	10:29:52	0.05	0.17	21.98	21.67	11.00	RT
4-Aug-11	10:29:56	0.05	0.16	21.97	21.74	11.00	RT
4-Aug-11	10:30:01	0.06	0.16	22.03	21.77	11.00	RT
4-Aug-11	10:30:06	0.05	0.16	22.02	21.91	11.00	RT
4-Aug-11	10:30:11	0.06	0.16	22.34	21.97	11.00	RT
4-Aug-11	10:30:17	0.06	0.16	23.08	21.97	11.00	RT
4-Aug-11	10:30:21	0.77	0.29	22.86	21.99	11.00	RT
4-Aug-11	10:30:26	6.72	2.86	21.45	22.02	11.00	RT
4-Aug-11	10:30:31	17.76	15.91	18.71	22.06	11.00	RT
4-Aug-11	10:30:36	20.99	18.77	15.10	21.76	11.00	RT
4-Aug-11	10:30:41	21.79	18.91	12.32	21.56	11.00	RT
4-Aug-11	10:30:46	21.96	18.95	9.83	21.96	11.00	RT
4-Aug-11	10:30:51	21.99	18.98	7.81	22.24	11.00	RT
4-Aug-11	10:30:56	21.97	18.97	5.98	18.79	11.00	RT
4-Aug-11	10:31:01	21.97	18.98	4.60	16.55	11.00	RT
4-Aug-11	10:31:06	21.97	18.99	3.46	13.25	11.00	RT
4-Aug-11	10:31:11	21.97	18.99	2.55	11.04	11.00	RT

Source Testing and Consulting Services, Inc.

Instrumental Reference Method On-Line Data Unit # CT2A

	Parameter	O2	CO2	CO	NOx	THC	Comments
	Units	%V,d	ppmVd	ppmVd	ppmVd	ppmVd	
4-Aug-11	10:31:16	21.98	19.00	1.83	9.48	11.00	RT
4-Aug-11	10:31:22	21.98	19.01	1.31	8.45	11.00	RT
4-Aug-11	10:31:26	21.98	19.02	0.93	5.81	11.00	RT
4-Aug-11	10:31:31	21.98	19.01	0.66	4.94	11.00	RT
4-Aug-11	10:31:36	21.98	19.01	0.47	4.28	11.00	RT
4-Aug-11	10:31:41	21.98	19.02	0.35	3.84	11.00	RT
4-Aug-11	10:31:46	21.98	19.02	0.22	2.87	11.00	RT
4-Aug-11	10:31:52	21.98	19.02	0.05	2.24	11.00	RT
4-Aug-11	10:31:56	21.98	19.02	0.00	1.86	11.00	RT
4-Aug-11	10:32:01	21.98	19.03	0.00	1.74	11.00	RT
4-Aug-11	10:32:08	21.98	19.03	0.00	1.31	11.00	RT
4-Aug-11	10:32:11	21.98	19.02	0.07	1.08	11.00	RT
4-Aug-11	10:32:17	21.98	19.04	0.00	0.93	11.00	RT
4-Aug-11	10:32:21	21.99	19.05	0.05	0.87	11.00	RT
4-Aug-11	10:32:26	21.99	19.05	0.09	0.71	11.00	RT
4-Aug-11	10:32:31	21.98	19.04	0.04	0.53	11.00	RT
4-Aug-11	10:32:36	21.98	19.03	0.00	0.41	11.00	RT
4-Aug-11	10:32:42	21.98	19.03	0.00	0.33	11.00	RT
4-Aug-11	10:32:46	21.98	19.03	0.00	0.26	11.00	RT
4-Aug-11	10:32:51	21.98	19.03	0.00	0.23	11.00	RT
4-Aug-11	10:32:56	21.98	19.03	0.00	0.17	11.00	RT
4-Aug-11	10:33:01	21.98	19.03	-0.01	0.13	11.00	RT
4-Aug-11	10:33:06	21.98	19.04	0.00	0.13	11.00	RT
4-Aug-11	10:33:11	21.98	19.03	-0.02	0.13	11.00	RT
4-Aug-11	10:33:16	21.98	19.04	0.00	0.07	11.00	RT
4-Aug-11	10:33:22	21.98	19.03	-0.01	0.03	11.00	RT
4-Aug-11	10:33:26	21.98	19.03	-0.01	0.02	11.00	RT
4-Aug-11	10:33:31	21.98	19.04	-0.01	0.03	11.00	RT
4-Aug-11	10:33:36	21.98	19.03	-0.01	0.03	11.00	RT
4-Aug-11	10:33:41	21.98	19.03	-0.01	0.03	11.00	RT
4-Aug-11	10:33:46	21.99	19.04	0.00	0.03	11.00	RT
4-Aug-11	10:33:52	21.98	19.04	0.00	0.03	11.00	RT
4-Aug-11	10:33:56	21.98	19.05	0.00	0.03	11.00	RT
4-Aug-11	10:34:01	21.98	19.04	0.00	0.03	11.00	RT
4-Aug-11	10:34:06	21.98	19.04	0.00	0.03	11.00	RT
4-Aug-11	10:34:11	21.98	19.04	0.00	0.03	11.00	RT
4-Aug-11	10:34:17	21.99	19.04	0.00	0.03	11.00	RT
4-Aug-11	10:34:21	21.99	19.04	0.00	0.03	11.00	RT
4-Aug-11	10:34:26	21.99	19.04	0.00	-0.02	11.00	RT
4-Aug-11	10:34:31	21.99	19.04	0.00	-0.07	11.00	RT
4-Aug-11	10:34:36	21.99	19.04	0.00	-0.07	11.00	RT
4-Aug-11	10:34:42	21.99	19.04	0.00	-0.07	11.00	RT
4-Aug-11	10:34:46	21.99	19.05	-0.01	-0.06	11.00	RT
4-Aug-11	10:34:51	21.98	19.05	-0.01	-0.07	11.00	RT
4-Aug-11	10:34:56	21.99	19.05	0.03	-0.06	11.00	RT
4-Aug-11	10:35:01	22.00	19.05	-0.01	-0.03	11.00	RT
4-Aug-11	10:35:07	21.99	19.05	-0.01	-0.07	11.00	RT
4-Aug-11	10:35:11	22.00	19.07	0.02	0.00	11.00	RT
4-Aug-11	10:35:16	21.99	19.06	0.00	0.02	11.00	RT

Source Testing and Consulting Services, Inc.

Instrumental Reference Method On-Line Data Unit # CT2A

	Parameter	O2	CO2	CO	NOx	THC	Comments
	Units	%V,d	ppmVd	ppmVd	ppmVd	ppmVd	
4-Aug-11	10:35:21	22.00	19.05	0.01	0.00	11.00	RT
4-Aug-11	10:35:26	21.99	19.05	0.00	-0.07	11.00	RT
4-Aug-11	10:35:31	21.99	19.05	0.00	-0.06	11.00	RT
4-Aug-11	10:35:36	21.99	19.05	0.00	-0.07	11.00	RT
4-Aug-11	10:35:41	21.99	19.06	-0.01	-0.07	11.00	RT
4-Aug-11	10:35:47	21.99	19.05	0.01	-0.05	11.00	RT
4-Aug-11	10:35:51	21.99	19.06	0.01	-0.06	11.00	RT
4-Aug-11	10:35:56	21.99	19.06	0.01	-0.06	11.00	RT
4-Aug-11	10:36:01	21.99	19.06	0.01	-0.05	11.00	RT
4-Aug-11	10:36:06	21.99	19.06	0.01	-0.04	11.00	RT
4-Aug-11	10:36:11	22.00	19.06	0.00	-0.04	11.00	RT
4-Aug-11	10:36:17	21.99	19.06	0.03	-0.05	11.00	RT
4-Aug-11	10:36:21	21.99	19.06	0.00	-0.06	11.00	RT
4-Aug-11	10:36:26	21.99	19.06	0.02	-0.01	11.00	RT
4-Aug-11	10:36:31	21.99	19.06	0.01	-0.03	11.00	RT
4-Aug-11	10:36:36	21.99	19.06	0.06	-0.06	11.00	RT
4-Aug-11	10:36:42	22.00	19.06	0.05	-0.05	11.00	RT
4-Aug-11	10:36:46	22.00	19.06	0.02	-0.06	11.00	RT
4-Aug-11	10:36:51	22.00	19.06	0.05	-0.04	11.00	RT
4-Aug-11	10:36:56	21.99	19.06	0.01	-0.04	11.00	RT
4-Aug-11	10:37:01	21.99	19.06	0.01	-0.06	11.00	RT
4-Aug-11	10:37:07	21.99	19.06	0.00	-0.06	11.00	RT
4-Aug-11	10:37:11	21.99	19.06	0.00	-0.06	11.00	RT
4-Aug-11	10:37:16	21.99	19.06	0.00	-0.06	11.00	RT
4-Aug-11	10:37:21	21.99	19.06	0.00	-0.06	11.00	RT
4-Aug-11	10:37:26	21.99	19.07	0.00	-0.06	11.00	RT
4-Aug-11	10:37:31	22.00	19.06	0.00	-0.06	11.00	RT
4-Aug-11	10:37:36	21.99	19.06	0.01	-0.07	11.00	RT
4-Aug-11	10:37:41	21.99	19.06	0.00	-0.06	11.00	RT
4-Aug-11	10:37:47	21.99	19.06	0.00	-0.06	11.00	RT
4-Aug-11	10:37:51	21.99	19.07	0.00	-0.06	11.00	RT
4-Aug-11	10:37:56	21.99	19.07	0.00	-0.06	11.00	RT
4-Aug-11	10:38:01	21.99	19.07	0.00	-0.06	11.00	RT
4-Aug-11	10:38:06	21.99	19.07	0.00	-0.06	11.00	RT
4-Aug-11	10:38:11	21.99	19.06	0.00	-0.06	11.00	RT
4-Aug-11	10:38:16	21.99	19.07	0.00	-0.06	11.00	RT
4-Aug-11	10:38:21	22.00	19.07	0.00	-0.06	11.00	RT
4-Aug-11	10:38:26	21.99	19.07	0.00	-0.06	11.00	RT
4-Aug-11	10:38:31	21.99	19.07	0.00	-0.06	11.00	RT
4-Aug-11	10:38:38	21.99	19.07	0.00	-0.06	11.00	RT
4-Aug-11	10:38:42	22.00	19.06	-0.01	-0.06	11.00	RT
4-Aug-11	10:38:46	21.99	19.06	-0.01	-0.07	11.00	RT
4-Aug-11	10:38:51	21.99	19.07	0.00	-0.06	11.00	RT
4-Aug-11	10:38:56	22.00	19.07	0.00	-0.05	11.00	RT
4-Aug-11	10:39:01	21.99	19.07	0.00	-0.06	11.00	RT
4-Aug-11	10:39:07	21.99	19.07	-0.01	-0.06	11.00	RT
4-Aug-11	10:39:11	22.00	19.07	0.00	-0.06	11.00	RT
4-Aug-11	10:39:16	21.99	19.07	0.04	-0.05	11.00	RT
4-Aug-11	10:39:21	22.00	19.08	-0.01	-0.06	11.00	RT

Source Testing and Consulting Services, Inc.

Instrumental Reference Method On-Line Data Unit # CT2A

	Parameter	O2	CO2	CO	NOx	THC	Comments
	Units	%V,d	ppmVd	ppmVd	ppmVd	ppmVd	
4-Aug-11	10:39:26	21.99	19.08	-0.01	-0.06	11.00	RT
4-Aug-11	10:39:32	21.99	19.07	-0.01	-0.06	11.00	RT
4-Aug-11	10:39:36	21.99	19.07	0.00	-0.06	11.00	RT
4-Aug-11	10:39:41	22.00	19.07	0.03	-0.05	11.00	RT
4-Aug-11	10:39:46	22.00	19.07	0.04	-0.05	11.00	RT
4-Aug-11	10:39:51	22.00	19.08	0.05	-0.04	11.00	RT
4-Aug-11	10:39:56	22.00	19.08	0.03	-0.03	11.00	RT
4-Aug-11	10:40:01	22.01	19.07	0.04	-0.04	11.00	RT
4-Aug-11	10:40:06	22.01	19.08	0.04	0.01	11.00	RT
4-Aug-11	10:40:12	22.00	19.08	0.02	-0.04	11.00	RT
4-Aug-11	10:40:16	22.00	19.08	0.02	-0.06	11.00	RT
4-Aug-11	10:40:21	22.00	19.09	0.02	-0.05	11.00	RT
4-Aug-11	10:40:26	22.01	19.08	0.01	-0.03	11.00	RT
4-Aug-11	10:40:31	22.01	19.08	0.01	-0.04	11.00	RT
4-Aug-11	10:40:36	22.01	19.08	0.01	-0.06	11.00	RT
4-Aug-11	10:40:42	22.00	19.08	0.02	0.00	11.00	RT
4-Aug-11	10:40:46	22.00	19.08	0.02	-0.06	11.00	RT
4-Aug-11	10:40:51	22.00	19.08	0.01	-0.04	11.00	RT
4-Aug-11	10:40:56	22.00	19.08	0.00	-0.03	11.00	RT
4-Aug-11	10:41:01	22.00	19.08	0.01	-0.04	11.00	RT
4-Aug-11	10:41:07	22.00	19.08	0.00	-0.05	11.00	RT
4-Aug-11	10:41:11	22.02	19.09	0.05	-0.05	11.00	RT
4-Aug-11	10:41:16	22.02	19.09	0.06	0.00	11.00	RT
4-Aug-11	10:41:21	22.01	19.08	0.03	-0.05	11.00	RT
4-Aug-11	10:41:26	22.00	19.08	0.00	-0.06	11.00	RT
4-Aug-11	10:41:32	22.00	19.08	0.08	-0.01	11.00	RT
4-Aug-11	10:41:36	22.01	19.09	0.04	0.00	11.00	RT
4-Aug-11	10:41:41	22.00	19.08	0.02	-0.05	11.00	RT
4-Aug-11	10:41:46	22.00	19.08	0.02	0.01	11.00	RT
4-Aug-11	10:41:51	22.01	19.09	0.02	-0.01	11.00	RT
4-Aug-11	10:41:56	22.01	19.09	0.03	-0.03	11.00	RT
4-Aug-11	10:42:01	22.01	19.08	0.07	-0.04	11.00	RT
4-Aug-11	10:42:06	22.01	19.08	0.03	-0.04	11.00	RT
4-Aug-11	10:42:11	22.01	19.09	0.00	-0.04	11.00	RT
4-Aug-11	10:42:16	22.00	19.08	0.02	-0.04	11.00	RT
4-Aug-11	10:42:21	22.01	19.09	0.14	-0.01	11.00	RT
4-Aug-11	10:42:26	22.00	19.08	0.00	-0.06	11.00	RT
4-Aug-11	10:42:31	22.00	19.08	0.00	-0.06	11.00	RT
4-Aug-11	10:42:37	21.99	19.08	0.00	-0.07	11.00	RT
4-Aug-11	10:42:41	21.99	19.08	0.00	-0.06	11.00	RT
4-Aug-11	10:42:46	22.00	19.08	0.00	-0.06	11.00	RT
4-Aug-11	10:42:51	22.00	19.08	0.00	-0.06	11.00	RT
4-Aug-11	10:42:56	22.00	19.08	0.00	-0.06	11.00	RT
4-Aug-11	10:43:01	22.00	19.08	0.00	-0.06	11.00	RT
4-Aug-11	10:43:07	22.00	19.08	0.00	-0.06	11.00	RT
4-Aug-11	10:43:11	22.00	19.08	0.00	-0.06	11.00	RT
4-Aug-11	10:43:16	22.00	19.08	0.00	-0.06	11.00	RT
4-Aug-11	10:43:21	22.00	19.08	-0.01	-0.06	11.00	RT
4-Aug-11	10:43:26	22.00	19.08	0.00	-0.06	11.00	RT

Source Testing and Consulting Services, Inc.

Instrumental Reference Method On-Line Data Unit # CT2A

	Parameter	O2	CO2	CO	NOx	THC	Comments
	Units	%V,d	ppmVd	ppmVd	ppmVd	ppmVd	
4-Aug-11	10:43:32	22.00	19.08	0.00	-0.06	11.00	RT
4-Aug-11	10:43:36	22.00	19.08	0.00	-0.07	11.00	RT
4-Aug-11	10:43:41	22.00	19.07	-0.01	-0.06	11.00	RT
4-Aug-11	10:43:46	22.00	19.08	0.00	-0.06	11.00	RT
4-Aug-11	10:43:51	22.00	19.08	-0.01	-0.06	11.00	RT
4-Aug-11	10:43:57	22.00	19.08	0.00	-0.06	11.00	RT
4-Aug-11	10:44:01	21.99	19.08	0.00	-0.07	11.00	RT
4-Aug-11	10:44:06	22.00	19.08	0.00	-0.06	11.00	RT
4-Aug-11	10:44:11	22.01	19.08	0.02	-0.06	11.00	RT
4-Aug-11	10:44:16	22.00	19.07	0.01	-0.06	11.00	RT
4-Aug-11	10:44:21	22.00	19.07	0.06	-0.06	11.00	RT
4-Aug-11	10:44:26	21.31	18.67	0.46	-0.06	11.00	RT
4-Aug-11	10:44:31	10.49	8.22	1.23	-0.06	11.00	RT
4-Aug-11	10:44:37	1.41	0.69	4.00	-0.07	11.00	RT
4-Aug-11	10:44:41	0.25	0.37	7.10	-0.06	11.00	RT
4-Aug-11	10:44:46	0.12	0.33	9.59	-0.38	11.00	RT
4-Aug-11	10:44:51	0.08	0.30	11.87	-0.46	11.00	RT
4-Aug-11	10:44:56	0.07	0.28	13.68	2.66	11.00	RT
4-Aug-11	10:45:01	0.07	0.27	15.41	3.45	11.00	RT
4-Aug-11	10:45:09	0.07	0.26	16.91	5.78	11.00	RT
4-Aug-11	10:45:11	0.06	0.26	17.96	6.35	11.00	RT
4-Aug-11	10:45:16	0.06	0.25	18.89	8.91	11.00	RT
4-Aug-11	10:45:21	0.06	0.24	19.73	9.55	11.00	RT
4-Aug-11	10:45:26	0.06	0.23	20.26	12.67	11.00	RT
4-Aug-11	10:45:32	0.06	0.23	20.51	13.46	11.00	RT
4-Aug-11	10:45:36	0.05	0.23	20.80	15.38	11.00	RT
4-Aug-11	10:45:41	0.05	0.22	21.21	15.35	11.00	RT
4-Aug-11	10:45:46	0.05	0.22	21.55	17.19	11.00	RT
4-Aug-11	10:45:51	0.05	0.22	21.64	17.66	11.00	RT
4-Aug-11	10:45:57	0.05	0.21	21.69	18.51	11.00	RT
4-Aug-11	10:46:01	0.05	0.21	21.72	18.66	11.00	RT
4-Aug-11	10:46:06	0.05	0.21	21.71	19.62	11.00	RT
4-Aug-11	10:46:11	0.05	0.21	21.71	19.86	11.00	RT
4-Aug-11	10:46:16	0.05	0.21	21.71	20.18	11.00	RT
4-Aug-11	10:46:22	0.05	0.21	21.72	20.26	11.00	RT
4-Aug-11	10:46:26	0.05	0.20	21.72	20.89	11.00	RT
4-Aug-11	10:46:31	0.05	0.20	21.75	20.87	11.00	RT
4-Aug-11	10:46:36	0.05	0.21	21.74	21.08	11.00	RT
4-Aug-11	10:46:41	0.05	0.20	21.78	21.07	11.00	RT
4-Aug-11	10:46:46	0.05	0.20	21.76	21.31	11.00	RT
4-Aug-11	10:46:51	0.05	0.21	21.86	21.37	11.00	RT
4-Aug-11	10:46:56	0.04	0.20	21.76	21.45	11.00	RT
4-Aug-11	10:47:02	0.05	0.20	21.79	21.47	11.00	RT
4-Aug-11	10:47:06	0.04	0.20	21.79	21.57	11.00	RT
4-Aug-11	10:47:11	0.05	0.20	21.79	21.56	11.00	RT
4-Aug-11	10:47:16	0.05	0.19	21.81	21.64	11.00	RT
4-Aug-11	10:47:21	0.05	0.19	21.82	21.66	11.00	RT
4-Aug-11	10:47:26	0.04	0.19	21.84	21.66	11.00	RT
4-Aug-11	10:47:32	0.04	0.19	21.85	21.67	11.00	RT

Source Testing and Consulting Services, Inc.

Instrumental Reference Method On-Line Data Unit # CT2A

	Parameter	O2	CO2	CO	NOx	THC	Comments
	Units	%V,d	ppmVd	ppmVd	ppmVd	ppmVd	
4-Aug-11	10:47:36	0.04	0.19	21.87	21.67	11.00	RT
4-Aug-11	10:47:41	0.04	0.19	21.88	21.66	11.00	RT
4-Aug-11	10:47:46	0.04	0.19	21.90	21.74	11.00	RT
4-Aug-11	10:47:51	0.04	0.19	21.92	21.77	11.00	RT
4-Aug-11	10:47:57	0.04	0.19	21.92	21.76	11.00	RT
4-Aug-11	10:48:01	0.04	0.19	21.92	21.76	11.00	RT
4-Aug-11	10:48:06	0.04	0.19	21.95	21.68	11.00	RT
4-Aug-11	10:48:11	0.04	0.19	21.95	21.66	11.00	RT
4-Aug-11	10:48:16	0.04	0.19	21.95	21.77	11.00	RT
4-Aug-11	10:48:22	0.04	0.19	21.94	21.76	11.00	RT
4-Aug-11	10:48:26	0.04	0.19	21.94	21.86	11.00	RT
4-Aug-11	10:48:31	0.04	0.19	21.92	21.86	11.00	RT
4-Aug-11	10:48:36	0.04	0.19	21.94	21.79	11.00	RT
4-Aug-11	10:48:41	0.05	0.19	21.94	21.76	11.00	RT
4-Aug-11	10:48:46	0.05	0.20	21.94	21.76	11.00	RT
4-Aug-11	10:48:51	0.04	0.19	21.94	21.76	11.00	RT
4-Aug-11	10:48:56	0.05	0.19	21.96	21.78	11.00	RT
4-Aug-11	10:49:02	0.05	0.19	21.96	21.80	11.00	RT
4-Aug-11	10:49:06	0.05	0.20	21.99	21.85	11.00	RT
4-Aug-11	10:49:11	0.04	0.19	21.94	21.77	11.00	RT
4-Aug-11	10:49:16	0.04	0.19	21.92	21.76	11.00	RT
4-Aug-11	10:49:21	0.04	0.19	21.92	21.76	11.00	RT
4-Aug-11	10:49:26	0.04	0.19	21.92	21.76	11.00	RT
4-Aug-11	10:49:31	0.04	0.19	21.92	21.77	11.00	RT
4-Aug-11	10:49:36	0.05	0.19	21.96	21.79	11.00	RT
4-Aug-11	10:49:41	0.04	0.19	21.92	21.76	11.00	RT
4-Aug-11	10:49:46	0.04	0.19	21.91	21.84	11.00	RT
4-Aug-11	10:49:51	0.04	0.19	21.93	21.87	11.00	RT
4-Aug-11	10:49:57	0.04	0.19	21.92	21.79	11.00	RT
4-Aug-11	10:50:01	0.04	0.19	21.66	21.77	11.00	RT
4-Aug-11	10:50:06	0.04	0.18	21.24	21.76	11.00	RT
4-Aug-11	10:50:11	0.05	0.18	21.03	21.77	11.00	RT
4-Aug-11	10:50:16	0.68	0.45	18.97	21.76	11.00	RT
4-Aug-11	10:50:22	10.33	7.86	16.72	21.77	11.00	RT
4-Aug-11	10:50:26	19.22	18.29	14.84	21.76	11.00	RT
4-Aug-11	10:50:31	21.24	18.90	12.83	21.76	11.00	RT
4-Aug-11	10:50:36	21.85	18.97	10.58	20.40	11.00	RT
4-Aug-11	10:50:41	21.98	19.00	8.40	20.06	11.00	RT
4-Aug-11	10:50:47	21.99	19.02	6.46	19.90	11.00	RT
4-Aug-11	10:50:51	22.00	19.03	5.01	19.86	11.00	RT
4-Aug-11	10:50:56	22.00	19.04	3.87	15.78	11.00	RT
4-Aug-11	10:51:01	22.01	19.04	2.86	14.77	11.00	RT
4-Aug-11	10:51:06	22.01	19.05	2.04	10.29	11.00	RT
4-Aug-11	10:51:11	22.00	19.06	1.53	9.16	11.00	RT
4-Aug-11	10:51:16	22.01	19.06	1.14	7.38	11.00	RT
4-Aug-11	10:51:21	22.00	19.06	0.83	6.96	11.00	RT
4-Aug-11	10:51:27	22.00	19.07	0.55	4.62	11.00	RT
4-Aug-11	10:51:31	22.00	19.07	0.35	4.14	11.00	RT
4-Aug-11	10:51:36	22.01	19.07	0.22	3.38	11.00	RT

Source Testing and Consulting Services, Inc.

Instrumental Reference Method On-Line Data Unit # CT2A

	Parameter	O2	CO2	CO	NOx	THC	Comments
	Units	%V,d	ppmVd	ppmVd	ppmVd	ppmVd	
4-Aug-11	10:51:41	22.01	19.07	0.13	3.14	11.00	RT
4-Aug-11	10:51:46	22.01	19.07	0.05	2.14	11.00	RT
4-Aug-11	10:51:51	22.00	19.08	0.03	1.86	11.00	RT
4-Aug-11	10:51:57	22.00	19.08	0.03	1.52	11.00	RT
4-Aug-11	10:52:01	22.01	19.09	0.02	1.44	11.00	RT
4-Aug-11	10:52:06	22.01	19.08	0.02	0.97	11.00	RT
4-Aug-11	10:52:11	22.02	19.09	0.05	0.84	11.00	RT
4-Aug-11	10:52:16	22.00	19.07	0.02	0.68	11.00	RT
4-Aug-11	10:52:22	21.99	19.06	0.29	0.64	11.00	RT
4-Aug-11	10:52:26	21.95	19.08	0.22	0.34	11.00	RT
4-Aug-11	10:52:31	20.69	16.56	0.06	0.34	11.00	RT
4-Aug-11	10:52:36	8.67	4.20	1.73	0.26	11.00	RT
4-Aug-11	10:52:41	1.21	0.50	5.66	0.24	11.00	RT
4-Aug-11	10:52:47	0.22	0.35	9.33	0.07	11.00	RT
4-Aug-11	10:52:51	0.10	0.32	11.01	0.03	11.00	RT
4-Aug-11	10:52:56	0.07	0.29	12.50	2.20	11.00	RT
4-Aug-11	10:53:01	0.06	0.28	14.10	2.74	11.00	RT
4-Aug-11	10:53:06	0.06	0.26	15.74	3.78	11.00	RT
4-Aug-11	10:53:11	0.06	0.26	17.12	4.04	11.00	RT
4-Aug-11	10:53:16	0.06	0.25	18.20	7.09	11.00	RT
4-Aug-11	10:53:21	0.05	0.24	19.08	7.84	11.00	RT
4-Aug-11	10:53:26	0.05	0.23	19.74	11.29	11.00	RT
4-Aug-11	10:53:31	0.05	0.23	20.22	12.18	11.00	RT
4-Aug-11	10:53:36	0.05	0.23	20.56	13.93	11.00	RT
4-Aug-11	10:53:41	0.05	0.22	19.27	14.37	11.00	RT
4-Aug-11	10:53:46	0.05	0.22	22.17	16.52	11.00	RT
4-Aug-11	10:53:52	0.38	0.24	24.51	17.06	11.00	RT
4-Aug-11	10:53:56	9.73	0.71	23.35	18.06	11.00	RT
4-Aug-11	10:54:01	17.48	0.48	21.53	18.06	11.00	RT
4-Aug-11	10:54:06	19.61	0.40	19.54	19.27	11.00	RT
4-Aug-11	10:54:11	20.06	0.37	17.52	19.56	11.00	RT
4-Aug-11	10:54:16	20.14	0.37	15.46	17.24	11.00	RT
4-Aug-11	10:54:22	20.18	0.36	13.34	16.66	11.00	RT
4-Aug-11	10:54:26	20.18	0.36	11.59	15.45	11.00	RT
4-Aug-11	10:54:31	20.18	0.35	10.50	15.45	11.00	RT
4-Aug-11	10:54:36	20.15	0.37	10.01	12.42	11.00	RT
4-Aug-11	10:54:41	20.15	0.38	9.61	11.65	11.00	RT
4-Aug-11	10:54:47	20.17	0.36	9.02	7.90	11.00	RT
4-Aug-11	10:54:51	20.18	0.36	8.64	7.15	11.00	RT
4-Aug-11	10:54:56	20.17	0.36	8.51	5.79	11.00	RT
4-Aug-11	10:55:01	20.16	0.36	8.29	5.44	11.00	RT
4-Aug-11	10:55:06	20.17	0.35	7.86	3.68	11.00	RT
4-Aug-11	10:55:12	20.17	0.35	7.39	3.24	11.00	RT
4-Aug-11	10:55:16	20.16	0.35	6.79	2.54	11.00	RT
4-Aug-11	10:55:21	20.15	0.35	6.26	2.57	11.00	RT
4-Aug-11	10:55:26	20.12	0.35	6.14	1.76	11.00	RT
4-Aug-11	10:55:31	20.14	0.35	6.31	1.57	11.00	RT
4-Aug-11	10:55:36	20.15	0.36	6.41	1.23	11.00	RT
4-Aug-11	10:55:41	20.12	0.36	6.41	1.16	11.00	RT

Source Testing and Consulting Services, Inc.

Instrumental Reference Method On-Line Data Unit # CT2A

	Parameter	O2	CO2	CO	NOx	THC	Comments
	Units	%V,d	ppmVd	ppmVd	ppmVd	ppmVd	
4-Aug-11	10:55:46	20.11	0.36	6.49	0.82	11.00	RT
4-Aug-11	10:55:52	20.09	0.36	6.67	0.74	11.00	RT
4-Aug-11	10:55:56	20.09	0.35	6.86	0.54	11.00	RT
4-Aug-11	10:56:01	20.08	0.35	7.15	0.53	11.00	RT
4-Aug-11	10:56:06	20.07	0.36	7.38	0.38	11.00	RT
4-Aug-11	10:56:11	20.07	0.35	7.36	0.36	11.00	RT
4-Aug-11	10:56:16	20.07	0.35	7.30	0.26	11.00	RT
4-Aug-11	10:56:22	20.07	0.35	7.26	0.24	11.00	RT
4-Aug-11	10:56:26	20.06	0.35	7.32	0.15	11.00	RT
4-Aug-11	10:56:31	20.06	0.35	7.27	0.14	11.00	RT
4-Aug-11	10:56:36	20.10	0.35	6.95	0.14	11.00	RT
4-Aug-11	10:56:41	20.25	0.34	6.56	0.16	11.00	RT
4-Aug-11	10:56:47	20.44	0.35	6.40	0.06	11.00	RT
4-Aug-11	10:56:51	20.53	0.35	6.38	0.07	11.00	RT
4-Aug-11	10:56:56	20.57	0.35	6.35	0.03	11.00	RT
4-Aug-11	10:57:01	20.58	0.34	6.33	0.04	11.00	RT
4-Aug-11	10:57:06	20.58	0.35	6.31	0.04	11.00	RT
4-Aug-11	10:57:12	20.58	0.36	6.27	0.03	11.00	RT
4-Aug-11	10:57:16	20.60	0.34	6.23	0.04	11.00	RT
4-Aug-11	10:57:21	20.60	0.34	6.19	0.04	11.00	RT
4-Aug-11	10:57:26	20.59	0.35	6.16	0.04	11.00	RT
4-Aug-11	10:57:31	20.58	0.35	6.13	0.04	11.00	RT
4-Aug-11	10:57:37	20.57	0.35	6.11	0.04	11.00	RT
4-Aug-11	10:57:41	20.57	0.35	6.10	0.03	11.00	RT
4-Aug-11	10:57:46	20.57	0.35	6.09	0.04	11.00	RT
4-Aug-11	10:57:51	20.57	0.35	6.07	0.04	11.00	RT
4-Aug-11	10:57:56	20.57	0.35	6.07	0.04	11.00	RT
4-Aug-11	10:58:01	20.58	0.34	6.05	0.04	11.00	RT
4-Aug-11	10:58:06	20.59	0.34	6.02	0.04	11.00	RT
4-Aug-11	10:58:11	20.59	0.33	6.00	0.04	11.00	RT
4-Aug-11	10:58:17	20.58	0.34	5.97	-0.04	11.00	RT
4-Aug-11	10:58:21	20.58	0.34	5.92	-0.06	11.00	RT
4-Aug-11	10:58:26	20.57	0.34	5.88	-0.06	11.00	RT
4-Aug-11	10:58:31	20.57	0.35	5.82	-0.06	11.00	RT
4-Aug-11	10:58:36	20.58	0.33	5.77	-0.06	11.00	RT
4-Aug-11	10:58:41	20.56	0.34	5.75	-0.06	11.00	RT
4-Aug-11	10:58:47	20.57	0.34	5.70	-0.06	11.00	RT
4-Aug-11	10:58:51	20.57	0.34	5.66	-0.06	11.00	RT
4-Aug-11	10:58:56	20.57	0.34	5.62	-0.07	11.00	RT
4-Aug-11	10:59:01	20.57	0.34	5.59	-0.05	11.00	RT
4-Aug-11	10:59:06	20.55	0.35	5.54	-0.06	11.00	RT
4-Aug-11	10:59:12	20.56	0.34	5.50	-0.05	11.00	RT
4-Aug-11	10:59:16	20.56	0.34	5.46	-0.06	11.00	RT
4-Aug-11	10:59:21	20.55	0.35	5.44	-0.06	11.00	RT
4-Aug-11	10:59:26	20.56	0.35	5.42	-0.06	11.00	RT
4-Aug-11	10:59:31	20.56	0.34	5.41	-0.06	11.00	RT
4-Aug-11	10:59:37	20.56	0.34	5.38	-0.06	11.00	RT
4-Aug-11	10:59:41	20.57	0.34	5.38	-0.06	11.00	RT
4-Aug-11	10:59:46	20.57	0.33	5.35	-0.06	11.00	RT

Source Testing and Consulting Services, Inc.

Instrumental Reference Method On-Line Data Unit # CT2A

	Parameter	O2	CO2	CO	NOx	THC	Comments
	Units	%V,d	ppmVd	ppmVd	ppmVd	ppmVd	
4-Aug-11	10:59:51	20.56	0.33	5.35	-0.06	11.00	RT
4-Aug-11	10:59:56	20.57	0.33	5.33	-0.06	11.00	RT
4-Aug-11	11:00:01	20.57	0.33	5.31	-0.05	11.00	RT
4-Aug-11	11:00:06	20.57	0.33	5.26	-0.06	11.00	RT
4-Aug-11	11:00:11	20.57	0.33	5.20	-0.06	11.00	RT
4-Aug-11	11:00:17	20.57	0.34	5.15	-0.06	11.00	RT
4-Aug-11	11:00:21	20.57	0.33	5.09	-0.06	11.00	RT
4-Aug-11	11:00:26	20.56	0.34	5.03	-0.05	11.00	RT
4-Aug-11	11:00:31	20.56	0.34	4.99	-0.04	11.00	RT
4-Aug-11	11:00:36	20.57	0.34	4.94	-0.04	11.00	RT
4-Aug-11	11:00:41	20.57	0.33	4.89	-0.06	11.00	RT
4-Aug-11	11:00:46	20.57	0.33	4.86	0.03	11.00	RT
4-Aug-11	11:00:51	20.56	0.34	4.82	0.03	11.00	RT
4-Aug-11	11:00:56	20.56	0.33	4.80	-0.06	11.00	RT
4-Aug-11	11:01:01	20.57	0.33	4.78	-0.06	11.00	RT
4-Aug-11	11:01:06	20.56	0.33	4.78	-0.01	11.00	RT
4-Aug-11	11:01:12	20.44	0.41	4.75	-0.05	11.00	RT
4-Aug-11	11:01:16	20.49	0.40	4.75	-0.06	11.00	RT
4-Aug-11	11:01:21	20.54	0.35	4.76	-0.04	11.00	RT
4-Aug-11	11:01:26	20.56	0.34	4.72	-0.06	11.00	RT
4-Aug-11	11:01:31	20.57	0.33	4.70	-0.06	11.00	RT
4-Aug-11	11:01:37	20.51	0.35	4.72	-0.05	11.00	RT
4-Aug-11	11:01:41	20.44	0.43	4.76	-0.06	11.00	RT
4-Aug-11	11:01:46	20.51	0.39	4.82	-0.06	11.00	RT
4-Aug-11	11:01:51	20.55	0.34	4.87	-0.06	11.00	RT
4-Aug-11	11:01:56	20.56	0.33	4.92	0.03	11.00	RT
4-Aug-11	11:02:02	20.57	0.33	4.98	0.04	11.00	RT
4-Aug-11	11:02:06	20.57	0.34	5.00	0.06	11.00	RT
4-Aug-11	11:02:11	20.56	0.34	5.03	0.04	11.00	RT
4-Aug-11	11:02:16	20.56	0.34	5.10	0.06	11.00	RT
4-Aug-11	11:02:21	20.51	0.37	5.15	0.04	11.00	RT
4-Aug-11	11:02:26	20.46	0.44	5.27	0.05	11.00	RT
4-Aug-11	11:02:31	20.50	0.40	5.41	0.07	11.00	RT
4-Aug-11	11:02:36	20.56	0.35	5.59	0.08	11.00	RT
4-Aug-11	11:02:42	20.56	0.33	5.66	0.03	11.00	RT
4-Aug-11	11:02:46	20.56	0.33	5.77	0.04	11.00	RT
4-Aug-11	11:02:51	20.55	0.34	5.88	0.03	11.00	RT
4-Aug-11	11:02:56	20.48	0.40	6.04	0.04	11.00	RT
4-Aug-11	11:03:01	20.51	0.39	6.20	0.04	11.00	RT
4-Aug-11	11:03:06	20.55	0.34	6.36	0.03	11.00	RT
4-Aug-11	11:03:12	20.53	0.36	6.56	0.04	11.00	RT
4-Aug-11	11:03:16	20.55	0.35	6.74	0.03	11.00	RT
4-Aug-11	11:03:21	20.56	0.33	6.86	0.04	11.00	RT
4-Aug-11	11:03:26	20.56	0.33	6.99	0.04	11.00	RT
4-Aug-11	11:03:31	20.56	0.33	7.09	0.04	11.00	RT
4-Aug-11	11:03:37	20.55	0.34	7.19	0.04	11.00	RT
4-Aug-11	11:03:41	20.55	0.34	7.24	0.03	11.00	RT
4-Aug-11	11:03:46	20.56	0.34	6.05	0.04	11.00	RT
4-Aug-11	11:03:51	20.45	0.34	5.47	0.03	11.00	RT

Source Testing and Consulting Services, Inc.

Instrumental Reference Method On-Line Data Unit # CT2A

	Parameter	O2	CO2	CO	NOx	THC	Comments
	Units	%V,d	ppmVd	ppmVd	ppmVd	ppmVd	
4-Aug-11	11:03:56	12.00	0.29	6.85	0.03	11.00	RT
4-Aug-11	11:04:02	1.78	0.21	9.80	0.02	11.00	RT
4-Aug-11	11:04:06	0.29	0.19	12.29	-0.06	11.00	RT
4-Aug-11	11:04:11	0.12	0.19	14.32	-0.06	11.00	RT
4-Aug-11	11:04:16	0.08	0.19	16.43	1.94	11.00	RT
4-Aug-11	11:04:21	0.07	0.19	18.14	1.95	11.00	RT
4-Aug-11	11:04:26	0.07	0.19	19.51	2.35	11.00	RT
4-Aug-11	11:04:31	0.08	0.20	20.60	2.37	11.00	RT
4-Aug-11	11:04:36	0.07	0.19	21.34	6.98	11.00	RT
4-Aug-11	11:04:41	0.06	0.19	21.63	6.94	11.00	RT
4-Aug-11	11:04:46	0.06	0.19	21.74	10.95	11.00	RT
4-Aug-11	11:04:51	0.06	0.19	21.83	11.95	11.00	RT
4-Aug-11	11:04:56	0.05	0.19	21.91	14.15	11.00	RT
4-Aug-11	11:05:01	0.05	0.19	21.98	14.15	11.00	RT
4-Aug-11	11:05:07	0.05	0.19	22.02	16.96	11.00	RT
4-Aug-11	11:05:11	0.05	0.19	21.93	16.96	11.00	RT
4-Aug-11	11:05:16	0.05	0.19	21.87	17.96	11.00	RT
4-Aug-11	11:05:21	0.05	0.19	21.89	17.96	11.00	RT
4-Aug-11	11:05:26	0.05	0.19	21.89	19.36	11.00	RT
4-Aug-11	11:05:31	0.05	0.19	21.90	19.36	11.00	RT
4-Aug-11	11:05:37	0.05	0.19	21.90	19.86	11.00	RT
4-Aug-11	11:05:41	0.05	0.19	21.90	19.86	11.00	RT
4-Aug-11	11:05:46	0.05	0.18	21.89	20.46	11.00	RT
4-Aug-11	11:05:51	0.05	0.18	21.90	20.46	11.00	RT
4-Aug-11	11:05:56	0.05	0.19	21.90	20.66	11.00	RT
4-Aug-11	11:06:02	0.05	0.18	21.90	20.71	11.00	RT
4-Aug-11	11:06:06	0.06	0.19	21.90	20.98	11.00	RT
4-Aug-11	11:06:11	0.05	0.19	21.91	20.97	11.00	RT
4-Aug-11	11:06:16	0.05	0.19	21.95	21.22	11.00	RT
4-Aug-11	11:06:21	0.06	0.20	21.98	21.18	11.00	RT
4-Aug-11	11:06:27	0.05	0.19	21.90	21.27	11.00	RT
4-Aug-11	11:06:31	0.05	0.19	21.90	21.26	11.00	RT
4-Aug-11	11:06:36	0.05	0.19	21.90	21.36	11.00	RT
4-Aug-11	11:06:41	0.04	0.19	21.90	21.36	11.00	RT
4-Aug-11	11:06:46	0.05	0.19	21.89	21.36	11.00	RT
4-Aug-11	11:06:51	0.05	0.19	21.91	21.38	11.00	RT
4-Aug-11	11:06:56	0.04	0.19	21.90	21.46	11.00	RT
4-Aug-11	11:07:01	0.04	0.19	21.93	21.47	11.00	RT
4-Aug-11	11:07:07	0.05	0.19	21.92	21.46	11.00	RT
4-Aug-11	11:07:11	0.04	0.19	21.92	21.46	11.00	RT
4-Aug-11	11:07:16	0.04	0.19	21.93	21.46	11.00	RT
4-Aug-11	11:07:21	0.04	0.19	21.92	21.46	11.00	RT
4-Aug-11	11:07:26	0.05	0.20	21.98	21.47	11.00	RT
4-Aug-11	11:07:31	0.05	0.19	21.93	21.48	11.00	RT
4-Aug-11	11:07:37	0.06	0.19	21.97	21.59	11.00	RT
4-Aug-11	11:07:41	0.05	0.19	21.96	21.62	10.86	RT
4-Aug-11	11:07:46	0.04	0.18	21.92	21.58	7.03	RT
4-Aug-11	11:07:51	0.04	0.18	21.90	21.59	4.44	RT
4-Aug-11	11:07:56	0.05	0.19	21.77	21.59	4.20	RT

Source Testing and Consulting Services, Inc.

Instrumental Reference Method On-Line Data Unit # CT2A

	Parameter	O2	CO2	CO	NOx	THC	Comments
	Units	%V,d	ppmVd	ppmVd	ppmVd	ppmVd	
4-Aug-11	11:08:02	0.04	0.19	23.46	21.57	8.88	RT
4-Aug-11	11:08:06	0.07	0.19	22.25	21.62	11.00	RT
4-Aug-11	11:08:11	3.53	0.63	20.70	21.57	11.00	RT
4-Aug-11	11:08:16	14.81	10.55	18.64	21.56	11.00	RT
4-Aug-11	11:08:21	20.21	18.48	15.65	21.56	11.00	RT
4-Aug-11	11:08:27	21.65	18.90	12.84	21.86	11.00	RT
4-Aug-11	11:08:31	21.91	18.96	10.46	21.86	11.00	RT
4-Aug-11	11:08:36	21.95	18.97	8.41	18.06	11.00	RT
4-Aug-11	11:08:41	21.96	19.01	6.62	18.08	11.00	RT
4-Aug-11	11:08:46	21.98	19.01	5.07	15.66	11.00	RT
4-Aug-11	11:08:52	21.98	19.02	3.79	15.01	11.00	RT
4-Aug-11	11:08:56	21.97	19.03	2.83	11.76	11.00	RT
4-Aug-11	11:09:01	21.96	19.02	2.12	11.78	11.00	RT
4-Aug-11	11:09:06	21.97	19.02	1.57	7.05	11.00	RT
4-Aug-11	11:09:11	21.97	19.03	1.13	7.05	11.00	RT
4-Aug-11	11:09:16	21.97	19.03	0.78	5.35	11.00	RT
4-Aug-11	11:09:21	21.98	19.04	0.61	5.38	11.00	RT
4-Aug-11	11:09:26	21.97	19.04	0.38	3.14	11.00	RT
4-Aug-11	11:09:32	21.97	19.04	0.20	3.02	11.00	RT
4-Aug-11	11:09:36	21.97	19.04	0.10	2.46	11.00	RT
4-Aug-11	11:09:41	21.98	19.06	0.06	2.48	11.00	RT
4-Aug-11	11:09:46	21.98	19.06	0.07	1.47	11.00	RT
4-Aug-11	11:09:51	21.98	19.06	0.07	1.49	11.00	RT
4-Aug-11	11:09:56	21.98	19.05	0.03	1.15	11.00	RT
4-Aug-11	11:10:02	21.97	19.06	0.05	1.09	11.00	RT
4-Aug-11	11:10:06	22.01	19.07	0.03	0.66	11.00	RT
4-Aug-11	11:10:11	21.97	19.05	0.01	0.64	11.00	RT
4-Aug-11	11:10:16	21.98	19.05	0.01	0.46	11.00	RT
4-Aug-11	11:10:21	21.98	19.06	0.06	0.52	11.00	RT
4-Aug-11	11:10:27	21.97	19.05	0.01	0.24	11.00	RT
4-Aug-11	11:10:31	21.98	19.06	0.00	0.25	11.00	RT
4-Aug-11	11:10:36	21.97	19.07	0.02	0.31	11.00	RT
4-Aug-11	11:10:41	21.97	19.07	0.02	0.24	11.00	RT
4-Aug-11	11:10:46	21.97	19.06	0.02	0.14	11.00	RT
4-Aug-11	11:10:52	21.97	19.06	0.00	0.12	11.00	RT
4-Aug-11	11:10:56	21.98	19.07	0.02	0.05	11.00	RT
4-Aug-11	11:11:01	21.98	19.06	0.00	0.04	11.00	RT
4-Aug-11	11:11:06	21.98	19.06	0.00	0.04	11.00	RT
4-Aug-11	11:11:11	21.98	19.07	0.00	0.09	11.00	RT
4-Aug-11	11:11:16	21.98	19.08	0.02	0.08	11.00	RT
4-Aug-11	11:11:21	21.98	19.07	0.01	0.04	11.00	RT
4-Aug-11	11:11:26	21.98	19.07	0.01	0.07	11.00	RT
4-Aug-11	11:11:32	21.98	19.07	0.00	0.04	11.00	RT
4-Aug-11	11:11:36	21.98	19.08	0.02	0.03	11.00	RT
4-Aug-11	11:11:41	21.98	19.08	0.00	0.04	11.00	RT
4-Aug-11	11:11:46	21.98	19.07	0.01	-0.06	11.00	RT
4-Aug-11	11:11:51	21.98	19.07	0.00	-0.06	11.00	RT
4-Aug-11	11:11:56	21.98	19.06	0.00	-0.06	11.00	RT
4-Aug-11	11:12:01	21.98	19.06	0.01	-0.05	10.65	RT

Source Testing and Consulting Services, Inc.

Instrumental Reference Method On-Line Data Unit # CT2A

	Parameter	O2	CO2	CO	NOx	THC	Comments
	Units	%V,d	ppmVd	ppmVd	ppmVd	ppmVd	
4-Aug-11	11:12:06	21.98	19.07	0.00	-0.05	9.54	RT
4-Aug-11	11:12:11	21.98	19.07	0.01	-0.04	8.62	RT
4-Aug-11	11:12:16	21.98	19.07	0.01	-0.06	7.73	RT
4-Aug-11	11:12:21	21.98	19.08	0.00	-0.06	6.48	RT
4-Aug-11	11:12:27	21.98	19.07	0.00	-0.06	5.25	RT
4-Aug-11	11:12:31	21.98	19.07	0.00	-0.06	4.28	RT
4-Aug-11	11:12:36	21.99	19.08	0.03	0.00	3.76	RT
4-Aug-11	11:12:41	21.98	19.08	0.04	0.02	3.45	RT
4-Aug-11	11:12:46	21.99	19.08	0.06	0.01	3.23	RT
4-Aug-11	11:12:52	21.98	19.07	0.02	-0.01	3.06	RT
4-Aug-11	11:12:56	21.98	19.08	0.03	-0.03	2.91	RT
4-Aug-11	11:13:01	21.98	19.07	0.00	-0.04	2.78	RT
4-Aug-11	11:13:06	21.99	19.08	0.03	-0.03	2.67	RT
4-Aug-11	11:13:11	21.98	19.07	0.01	-0.05	2.56	RT
4-Aug-11	11:13:17	21.99	19.08	0.01	-0.02	2.48	RT
4-Aug-11	11:13:21	21.98	19.07	0.03	-0.06	2.43	RT
4-Aug-11	11:13:26	21.98	19.08	0.01	-0.05	2.41	RT
4-Aug-11	11:13:31	21.99	19.08	0.00	-0.06	2.31	RT
4-Aug-11	11:13:36	21.99	19.08	0.01	-0.02	2.23	RT
4-Aug-11	11:13:41	21.98	19.08	0.00	-0.06	2.24	RT
4-Aug-11	11:13:46	21.98	19.08	0.01	-0.04	2.15	RT
4-Aug-11	11:13:51	21.99	19.08	0.01	-0.02	2.12	RT
4-Aug-11	11:13:57	21.98	19.08	0.00	-0.06	2.13	RT
4-Aug-11	11:14:01	21.98	19.07	0.00	-0.04	2.09	RT
4-Aug-11	11:14:06	21.99	19.08	0.01	-0.06	2.03	RT
4-Aug-11	11:14:11	21.99	19.08	0.01	-0.06	2.00	RT
4-Aug-11	11:14:16	21.99	19.08	0.05	-0.01	1.95	RT
4-Aug-11	11:14:21	21.99	19.07	0.01	-0.03	1.96	RT
4-Aug-11	11:14:27	21.99	19.08	0.00	-0.03	1.92	RT
4-Aug-11	11:14:31	21.99	19.08	0.00	-0.06	1.86	RT
4-Aug-11	11:14:36	21.99	19.08	0.01	-0.06	1.83	RT
4-Aug-11	11:14:41	21.99	19.09	0.03	-0.05	1.80	RT
4-Aug-11	11:14:46	21.99	19.08	0.00	-0.06	1.78	RT
4-Aug-11	11:14:52	21.99	19.08	0.00	-0.06	1.75	RT
4-Aug-11	11:14:56	21.99	19.08	0.00	-0.06	1.69	RT
4-Aug-11	11:15:01	21.99	19.08	0.00	-0.06	1.68	RT
4-Aug-11	11:15:06	22.00	19.09	0.00	-0.06	1.65	RT
4-Aug-11	11:15:11	21.99	19.09	0.02	-0.01	1.66	RT
4-Aug-11	11:15:17	21.99	19.09	0.00	-0.06	1.61	RT
4-Aug-11	11:15:21	21.99	19.09	0.00	-0.05	1.58	RT
4-Aug-11	11:15:26	21.99	19.10	0.01	-0.06	1.54	RT
4-Aug-11	11:15:31	21.99	19.09	0.01	-0.06	1.56	RT
4-Aug-11	11:15:36	21.99	19.10	0.02	-0.04	1.53	RT
4-Aug-11	11:15:41	21.99	19.09	0.00	-0.06	1.46	RT
4-Aug-11	11:15:46	21.99	19.09	-0.01	-0.06	1.48	RT
4-Aug-11	11:15:51	21.99	19.09	0.00	-0.07	1.43	RT
4-Aug-11	11:15:56	21.99	19.09	0.00	-0.07	1.42	RT
4-Aug-11	11:16:01	21.99	19.09	0.00	-0.07	1.42	RT
4-Aug-11	11:16:06	21.99	19.09	0.00	-0.07	1.39	RT

Source Testing and Consulting Services, Inc.

Instrumental Reference Method On-Line Data Unit # CT2A

	Parameter	O2	CO2	CO	NOx	THC	Comments
	Units	%V,d	ppmVd	ppmVd	ppmVd	ppmVd	
4-Aug-11	11:16:11	21.99	19.09	0.00	-0.06	1.39	RT
4-Aug-11	11:16:16	21.99	19.09	0.00	-0.07	1.38	RT
4-Aug-11	11:16:22	21.99	19.09	0.00	-0.06	1.34	RT
4-Aug-11	11:16:26	21.99	19.09	0.00	-0.07	1.35	RT
4-Aug-11	11:16:31	21.99	19.09	-0.01	-0.07	1.35	RT
4-Aug-11	11:16:36	21.99	19.09	-0.01	-0.06	1.34	RT
4-Aug-11	11:16:41	21.99	19.09	0.00	-0.06	1.33	RT
4-Aug-11	11:16:46	21.99	19.09	-0.01	-0.07	1.34	RT
4-Aug-11	11:16:52	21.99	19.09	0.00	-0.07	1.32	RT
4-Aug-11	11:16:56	21.99	19.09	0.00	-0.07	1.29	RT
4-Aug-11	11:17:01	21.99	19.08	0.00	-0.06	1.32	RT
4-Aug-11	11:17:06	21.99	19.09	0.00	-0.07	1.31	RT
4-Aug-11	11:17:11	21.99	19.09	0.00	-0.07	1.23	RT
4-Aug-11	11:17:17	21.99	19.09	0.00	-0.07	1.28	RT
4-Aug-11	11:17:21	21.99	19.09	0.00	-0.06	1.27	RT
4-Aug-11	11:17:26	21.99	19.09	0.00	-0.07	1.29	RT
4-Aug-11	11:17:31	21.99	19.09	-0.01	-0.07	1.22	RT
4-Aug-11	11:17:36	21.99	19.09	0.00	-0.07	1.25	RT
4-Aug-11	11:17:43	21.99	19.09	-0.01	-0.06	1.22	RT
4-Aug-11	11:17:46	21.99	19.09	-0.01	-0.06	1.23	RT
4-Aug-11	11:17:51	21.99	19.09	0.00	-0.07	1.21	RT
4-Aug-11	11:17:56	21.99	19.09	-0.01	-0.06	1.24	RT
4-Aug-11	11:18:01	21.99	19.09	0.00	-0.06	1.20	RT
4-Aug-11	11:18:06	21.99	19.09	0.00	-0.07	1.21	RT
4-Aug-11	11:18:11	21.78	18.53	0.00	-0.07	1.22	RT
4-Aug-11	11:18:16	21.28	9.80	-0.01	-0.07	1.20	RT
4-Aug-11	11:18:22	21.16	6.48	0.02	-0.05	1.18	RT
4-Aug-11	11:18:26	21.00	4.76	0.00	-0.06	1.21	RT
4-Aug-11	11:18:31	20.83	1.22	-0.01	-0.07	1.22	RT
4-Aug-11	11:18:36	20.79	0.65	0.00	-0.05	1.20	RT
4-Aug-11	11:18:41	20.79	0.58	0.00	-0.07	1.18	RT
4-Aug-11	11:18:46	20.78	0.57	0.00	-0.06	1.18	RT
4-Aug-11	11:18:52	20.78	0.54	0.03	-0.06	1.16	RT
4-Aug-11	11:18:56	20.81	0.51	0.08	-0.06	1.16	RT
4-Aug-11	11:19:01	20.82	0.49	0.13	-0.05	1.18	RT
4-Aug-11	11:19:06	20.82	0.48	0.17	-0.06	1.16	RT
4-Aug-11	11:19:11	20.80	0.47	0.26	-0.01	1.17	RT
4-Aug-11	11:19:17	20.80	0.47	0.29	-0.06	1.12	RT
4-Aug-11	11:19:21	20.79	0.46	0.36	-0.05	1.14	RT
4-Aug-11	11:19:26	20.78	0.45	0.43	-0.06	1.12	RT
4-Aug-11	11:19:31	20.78	0.45	0.51	-0.07	1.06	RT
4-Aug-11	11:19:36	20.76	0.44	0.58	-0.07	1.09	RT
4-Aug-11	11:19:42	20.75	0.45	0.67	-0.07	5.04	RT
4-Aug-11	11:19:46	20.75	0.44	0.75	-0.06	10.40	RT
4-Aug-11	11:19:51	20.74	0.44	0.81	-0.07	10.28	RT
4-Aug-11	11:19:56	20.73	0.43	0.89	-0.06	10.22	RT
4-Aug-11	11:20:01	20.71	0.44	0.98	-0.04	10.37	RT
4-Aug-11	11:20:07	20.71	0.43	1.08	-0.06	10.34	RT
4-Aug-11	11:20:11	20.70	0.43	1.16	-0.06	10.44	RT

Source Testing and Consulting Services, Inc.

Instrumental Reference Method On-Line Data Unit # CT2A

	Parameter	O2	CO2	CO	NOx	THC	Comments
	Units	%V,d	ppmVd	ppmVd	ppmVd	ppmVd	
4-Aug-11	11:20:16	20.69	0.43	1.24	-0.06	8.80	RT
4-Aug-11	11:20:21	20.67	0.44	1.32	-0.06	4.55	RT
4-Aug-11	11:20:26	20.68	0.42	1.41	-0.07	0.69	RT
4-Aug-11	11:20:31	20.67	0.42	1.48	-0.06	0.04	RT
4-Aug-11	11:20:36	20.66	0.42	1.56	-0.06	-0.07	RT
4-Aug-11	11:20:41	20.65	0.42	1.62	-0.06	0.25	RT
4-Aug-11	11:20:47	20.65	0.43	1.71	-0.07	6.19	RT
4-Aug-11	11:20:51	20.64	0.43	1.81	-0.06	10.29	RT
4-Aug-11	11:20:56	20.64	0.43	1.88	-0.04	9.39	RT
Average:	**11:21:01**	**15.93**	**9.83**	**6.91**	**5.57**	**9.63**	**RT**
4-Aug-11	11:57:59	13.44	5.62	3.52	11.15	0.62	
4-Aug-11	11:58:01	13.44	5.61	3.51	10.65	0.62	
4-Aug-11	11:58:02	13.44	5.61	3.50	10.65	0.65	
4-Aug-11	11:58:03	13.44	5.61	3.51	10.65	0.66	
4-Aug-11	11:58:04	13.44	5.61	3.51	10.65	0.64	
4-Aug-11	11:58:06	13.44	5.61	3.51	10.65	0.59	
4-Aug-11	11:58:11	13.44	5.61	3.50	10.59	0.63	
Average:	**11:58:11**	**13.44**	**5.61**	**3.51**	**10.71**	**0.63**	
4-Aug-11	11:58:42	13.44	5.62	3.48	9.61	0.61	
4-Aug-11	11:58:47	13.44	5.61	3.48	9.45	0.63	
4-Aug-11	11:58:52	13.44	5.61	3.48	9.41	0.62	
4-Aug-11	11:58:57	13.44	5.61	3.50	9.35	0.59	
4-Aug-11	11:59:02	13.44	5.61	3.51	9.31	0.61	
4-Aug-11	11:59:08	13.44	5.61	3.51	9.25	0.62	
4-Aug-11	11:59:12	13.44	5.61	3.53	9.24	0.60	
4-Aug-11	11:59:17	13.44	5.61	3.53	9.25	0.61	
4-Aug-11	11:59:22	13.44	5.61	3.53	9.20	0.65	
4-Aug-11	11:59:27	13.44	5.62	3.53	9.15	0.67	
4-Aug-11	11:59:33	13.44	5.62	3.53	9.28	0.62	
4-Aug-11	11:59:37	13.43	5.62	3.56	9.35	0.66	
4-Aug-11	11:59:42	13.44	5.62	3.55	9.41	0.68	
4-Aug-11	11:59:47	13.44	5.62	3.58	9.45	0.67	
4-Aug-11	11:59:52	13.44	5.61	3.58	9.57	0.66	
4-Aug-11	11:59:58	13.44	5.61	3.58	9.65	0.63	
4-Aug-11	12:00:02	13.44	5.62	3.58	9.80	0.64	
4-Aug-11	12:00:07	13.43	5.62	3.60	9.85	0.67	
4-Aug-11	12:00:12	13.44	5.62	3.61	10.03	0.65	
4-Aug-11	12:00:17	13.43	5.62	3.60	10.15	0.69	
4-Aug-11	12:00:22	13.43	5.62	3.61	10.33	0.66	
4-Aug-11	12:00:27	13.43	5.62	3.63	10.45	0.66	
4-Aug-11	12:00:32	13.43	5.62	3.61	10.63	0.65	
4-Aug-11	12:00:37	13.43	5.62	3.61	10.75	0.67	
4-Aug-11	12:00:42	13.43	5.62	3.61	10.93	0.66	
4-Aug-11	12:00:47	13.43	5.62	3.63	11.05	0.62	
Average:	**12:00:51**	**13.44**	**5.62**	**3.56**	**9.76**	**0.64**	
4-Aug-11	12:01:22	13.44	5.61	3.66	11.15	0.63	
4-Aug-11	12:01:27	13.44	5.61	3.65	11.15	0.69	
4-Aug-11	12:01:32	13.44	5.61	3.67	10.83	0.67	
4-Aug-11	12:01:37	13.44	5.61	3.66	10.75	0.67	

Source Testing and Consulting Services, Inc.

Instrumental Reference Method On-Line Data Unit # CT2A

	Parameter	O2	CO2	CO	NOx	THC	Comments
	Units	%V,d	ppmVd	ppmVd	ppmVd	ppmVd	
4-Aug-11	12:01:43	13.44	5.61	3.66	10.48	0.65	
4-Aug-11	12:01:47	13.44	5.61	3.67	10.35	0.67	
4-Aug-11	12:01:52	13.44	5.61	3.66	10.11	0.67	
4-Aug-11	12:01:57	13.44	5.61	3.68	9.95	0.67	
4-Aug-11	12:02:02	13.44	5.61	3.66	9.64	0.63	
4-Aug-11	12:02:07	13.44	5.61	3.67	9.45	0.67	
4-Aug-11	12:02:12	13.44	5.62	3.66	9.21	0.62	
4-Aug-11	12:02:17	13.44	5.61	3.66	9.15	0.64	
4-Aug-11	12:02:22	13.44	5.61	3.67	8.91	0.63	
4-Aug-11	12:02:27	13.44	5.61	3.69	8.75	0.61	
4-Aug-11	12:02:32	13.44	5.61	3.69	8.67	0.61	
4-Aug-11	12:02:39	13.44	5.61	3.69	8.65	0.66	
4-Aug-11	12:02:42	13.45	5.61	3.68	8.49	0.70	
4-Aug-11	12:02:47	13.44	5.61	3.68	8.35	0.66	
4-Aug-11	12:02:52	13.44	5.61	3.69	8.34	0.67	
4-Aug-11	12:02:57	13.44	5.61	3.71	8.35	0.65	
4-Aug-11	12:03:02	13.43	5.61	3.71	8.34	0.65	
4-Aug-11	12:03:07	13.43	5.61	3.70	8.33	0.65	
4-Aug-11	12:03:12	13.43	5.61	3.71	8.42	0.66	
4-Aug-11	12:03:20	13.44	5.61	3.72	8.44	0.63	
4-Aug-11	12:03:22	13.44	5.61	3.72	8.50	0.63	
4-Aug-11	12:03:27	13.44	5.61	3.71	8.54	0.63	
4-Aug-11	12:03:32	13.45	5.61	3.72	8.78	0.65	
4-Aug-11	12:03:37	13.45	5.61	3.72	8.85	0.67	
4-Aug-11	12:03:43	13.45	5.61	3.72	9.10	0.67	
4-Aug-11	12:03:47	13.45	5.61	3.73	9.15	0.63	
4-Aug-11	12:03:52	13.45	5.60	3.74	9.30	0.65	
4-Aug-11	12:03:57	13.45	5.60	3.75	9.35	0.65	
4-Aug-11	12:04:02	13.45	5.60	3.74	9.59	0.63	
4-Aug-11	12:04:07	13.46	5.60	3.74	9.65	0.66	
4-Aug-11	12:04:12	13.46	5.60	3.78	9.73	0.66	
4-Aug-11	12:04:17	13.46	5.60	3.77	9.75	0.66	
4-Aug-11	12:04:22	13.46	5.60	3.77	9.99	0.68	
4-Aug-11	12:04:27	13.45	5.61	3.77	10.05	0.64	
4-Aug-11	12:04:32	13.45	5.61	3.78	10.05	0.65	
4-Aug-11	12:04:37	13.45	5.61	3.80	10.05	0.63	
4-Aug-11	12:04:42	13.45	5.61	3.80	10.13	0.62	
4-Aug-11	12:04:47	13.44	5.62	3.80	10.17	0.61	
4-Aug-11	12:04:52	13.44	5.61	3.79	10.15	0.64	
4-Aug-11	12:04:57	13.44	5.61	3.79	10.15	0.67	
4-Aug-11	12:05:02	13.44	5.61	3.79	10.07	0.60	
4-Aug-11	12:05:07	13.44	5.61	3.79	10.05	0.63	
4-Aug-11	12:05:12	13.43	5.62	3.79	10.05	0.63	
4-Aug-11	12:05:17	13.43	5.62	3.80	10.05	0.62	
4-Aug-11	12:05:22	13.43	5.62	3.80	9.97	0.65	
4-Aug-11	12:05:27	13.43	5.62	3.79	9.95	0.63	
4-Aug-11	12:05:32	13.43	5.62	3.78	9.94	0.59	
4-Aug-11	12:05:37	13.43	5.62	3.77	9.95	0.60	
4-Aug-11	12:05:43	13.42	5.62	3.77	10.03	0.60	

Source Testing and Consulting Services, Inc.

Instrumental Reference Method On-Line Data Unit # CT2A

	Parameter	O2	CO2	CO	NOx	THC	Comments
	Units	%V,d	ppmVd	ppmVd	ppmVd	ppmVd	
4-Aug-11	12:05:47	13.43	5.62	3.75	10.05	0.62	
4-Aug-11	12:05:52	13.43	5.61	3.74	10.05	0.67	
4-Aug-11	12:05:57	13.44	5.61	3.74	10.05	0.66	
4-Aug-11	12:06:02	13.44	5.61	3.75	10.05	0.66	
4-Aug-11	12:06:08	13.44	5.61	3.72	10.05	0.66	
4-Aug-11	12:06:12	13.45	5.61	3.72	9.94	0.66	
4-Aug-11	12:06:17	13.46	5.60	3.72	9.95	0.64	
4-Aug-11	12:06:22	13.45	5.60	3.72	9.95	0.67	
4-Aug-11	12:06:27	13.44	5.61	3.72	9.95	0.66	
4-Aug-11	12:06:32	13.44	5.61	3.70	9.79	0.66	
4-Aug-11	12:06:37	13.43	5.62	3.69	9.75	0.64	
4-Aug-11	12:06:42	13.43	5.62	3.69	9.67	0.63	
4-Aug-11	12:06:47	13.43	5.62	3.69	9.65	0.66	
4-Aug-11	12:06:52	13.42	5.63	3.69	9.49	0.64	
4-Aug-11	12:06:57	13.43	5.63	3.67	9.45	0.65	
4-Aug-11	12:07:02	13.43	5.62	3.66	9.29	0.63	
4-Aug-11	12:07:07	13.43	5.62	3.65	9.25	0.65	
4-Aug-11	12:07:12	13.44	5.61	3.63	9.25	0.65	
4-Aug-11	12:07:17	13.44	5.61	3.64	9.25	0.63	
4-Aug-11	12:07:22	13.44	5.61	3.64	9.19	0.61	
4-Aug-11	12:07:27	13.44	5.61	3.62	9.15	0.61	
4-Aug-11	12:07:32	13.44	5.61	3.61	9.07	0.62	
4-Aug-11	12:07:37	13.44	5.61	3.62	9.05	0.64	
4-Aug-11	12:07:43	13.44	5.61	3.64	9.04	0.64	
4-Aug-11	12:07:47	13.43	5.62	3.63	9.05	0.62	
4-Aug-11	12:07:52	13.43	5.62	3.62	9.05	0.61	
4-Aug-11	12:07:57	13.43	5.62	3.63	9.05	0.61	
4-Aug-11	12:08:02	13.42	5.62	3.61	9.05	0.59	
4-Aug-11	12:08:08	13.43	5.62	3.61	9.05	0.61	
4-Aug-11	12:08:12	13.43	5.62	3.61	9.25	0.64	
4-Aug-11	12:08:17	13.43	5.61	3.63	9.25	0.65	
4-Aug-11	12:08:22	13.43	5.62	3.64	9.33	0.66	
4-Aug-11	12:08:27	13.43	5.62	3.64	9.35	0.64	
4-Aug-11	12:08:32	13.44	5.62	3.64	9.43	0.64	
4-Aug-11	12:08:37	13.44	5.61	3.66	9.44	0.61	
4-Aug-11	12:08:42	13.44	5.61	3.67	9.53	0.59	
4-Aug-11	12:08:47	13.45	5.61	3.66	9.55	0.61	
4-Aug-11	12:08:52	13.45	5.61	3.66	9.63	0.61	
4-Aug-11	12:08:57	13.45	5.60	3.66	9.65	0.59	
4-Aug-11	12:09:02	13.45	5.61	3.67	9.73	0.62	
4-Aug-11	12:09:07	13.45	5.60	3.66	9.75	0.65	
4-Aug-11	12:09:12	13.45	5.60	3.66	9.75	0.62	
4-Aug-11	12:09:17	13.45	5.60	3.67	9.75	0.61	
4-Aug-11	12:09:22	13.45	5.60	3.68	9.83	0.64	
4-Aug-11	12:09:27	13.45	5.61	3.69	9.85	0.66	
4-Aug-11	12:09:32	13.45	5.60	3.68	9.85	0.60	
4-Aug-11	12:09:37	13.45	5.60	3.68	9.85	0.64	
4-Aug-11	12:09:42	13.44	5.61	3.70	9.85	0.62	
4-Aug-11	12:09:47	13.44	5.61	3.71	9.85	0.61	

Source Testing and Consulting Services, Inc.

Instrumental Reference Method On-Line Data Unit # CT2A

	Parameter	O2	CO2	CO	NOx	THC	Comments
	Units	%V,d	ppmVd	ppmVd	ppmVd	ppmVd	
4-Aug-11	12:09:52	13.45	5.61	3.71	9.79	0.64	
4-Aug-11	12:09:57	13.45	5.61	3.70	9.75	0.63	
4-Aug-11	12:10:02	13.44	5.61	3.71	9.69	0.57	
4-Aug-11	12:10:08	13.44	5.61	3.73	9.65	0.64	
4-Aug-11	12:10:12	13.44	5.61	3.72	9.55	0.60	
4-Aug-11	12:10:17	13.44	5.61	3.73	9.55	0.63	
4-Aug-11	12:10:22	13.45	5.61	3.74	9.55	0.67	
4-Aug-11	12:10:27	13.45	5.61	3.74	9.49	0.65	
4-Aug-11	12:10:33	13.45	5.61	3.73	9.44	0.62	
4-Aug-11	12:10:37	13.45	5.60	3.75	9.45	0.59	
4-Aug-11	12:10:42	13.45	5.61	3.77	9.45	0.58	
4-Aug-11	12:10:47	13.44	5.61	3.76	9.44	0.58	
4-Aug-11	12:10:52	13.44	5.61	3.76	9.51	0.58	
4-Aug-11	12:10:57	13.44	5.61	3.78	9.55	0.57	
4-Aug-11	12:11:02	13.44	5.61	3.78	9.55	0.57	
4-Aug-11	12:11:07	13.44	5.61	3.79	9.55	0.63	
4-Aug-11	12:11:12	13.44	5.61	3.77	9.63	0.60	
4-Aug-11	12:11:17	13.44	5.61	3.78	9.65	0.63	
4-Aug-11	12:11:22	13.44	5.61	3.79	9.65	0.67	
4-Aug-11	12:11:27	13.44	5.61	3.78	9.65	0.64	
4-Aug-11	12:11:32	13.44	5.60	3.78	9.65	0.61	
4-Aug-11	12:11:37	13.44	5.60	3.75	9.65	0.58	
4-Aug-11	12:11:42	13.44	5.61	3.76	9.73	0.56	
4-Aug-11	12:11:47	13.44	5.61	3.76	9.75	0.56	
4-Aug-11	12:11:52	13.44	5.60	3.77	9.67	0.59	
4-Aug-11	12:11:57	13.44	5.60	3.78	9.65	0.59	
4-Aug-11	12:12:02	13.45	5.60	3.79	9.65	0.58	
4-Aug-11	12:12:08	13.44	5.60	3.77	9.65	0.63	
4-Aug-11	12:12:12	13.44	5.60	3.76	9.65	0.63	
4-Aug-11	12:12:17	13.45	5.60	3.76	9.65	0.61	
4-Aug-11	12:12:22	13.45	5.60	3.76	9.57	0.63	
4-Aug-11	12:12:27	13.45	5.60	3.76	9.55	0.59	
4-Aug-11	12:12:33	13.45	5.60	3.76	9.55	0.57	
4-Aug-11	12:12:37	13.45	5.61	3.76	9.55	0.61	
4-Aug-11	12:12:42	13.45	5.61	3.76	9.55	0.64	
4-Aug-11	12:12:47	13.45	5.61	3.76	9.55	0.62	
4-Aug-11	12:12:52	13.45	5.61	3.76	9.55	0.64	
4-Aug-11	12:12:57	13.45	5.61	3.76	9.55	0.60	
4-Aug-11	12:13:02	13.44	5.61	3.76	9.47	0.62	
4-Aug-11	12:13:07	13.45	5.61	3.76	9.44	0.58	
4-Aug-11	12:13:12	13.45	5.61	3.76	9.44	0.56	
4-Aug-11	12:13:17	13.45	5.60	3.76	9.45	0.57	
4-Aug-11	12:13:22	13.45	5.61	3.76	9.45	0.60	
4-Aug-11	12:13:27	13.45	5.61	3.76	9.45	0.58	
4-Aug-11	12:13:32	13.45	5.61	3.76	9.45	0.61	
4-Aug-11	12:13:37	13.44	5.61	3.76	9.44	0.57	
4-Aug-11	12:13:42	13.44	5.61	3.76	9.45	0.60	
4-Aug-11	12:13:47	13.44	5.61	3.76	9.45	0.59	
4-Aug-11	12:13:52	13.44	5.61	3.76	9.36	0.63	

Source Testing and Consulting Services, Inc.

Instrumental Reference Method On-Line Data Unit # CT2A

	Parameter	O2	CO2	CO	NOx	THC	Comments
	Units	%V,d	ppmVd	ppmVd	ppmVd	ppmVd	
4-Aug-11	12:13:57	13.44	5.61	3.76	9.35	0.61	
4-Aug-11	12:14:02	13.44	5.61	3.76	9.27	0.59	
4-Aug-11	12:14:07	13.44	5.61	3.76	9.25	0.62	
4-Aug-11	12:14:12	13.45	5.60	3.76	9.17	0.63	
4-Aug-11	12:14:17	13.45	5.60	3.76	9.15	0.62	
4-Aug-11	12:14:22	13.45	5.60	3.76	9.07	0.66	
4-Aug-11	12:14:27	13.45	5.60	3.76	9.05	0.63	
4-Aug-11	12:14:33	13.45	5.60	3.76	9.05	0.63	
4-Aug-11	12:14:37	13.45	5.60	3.76	9.05	0.62	
4-Aug-11	12:14:42	13.45	5.60	3.76	8.97	0.66	
4-Aug-11	12:14:47	13.45	5.60	3.76	8.94	0.61	
4-Aug-11	12:14:52	13.45	5.60	3.76	8.95	0.64	
4-Aug-11	12:14:58	13.45	5.60	3.76	8.94	0.58	
4-Aug-11	12:15:02	13.45	5.60	3.76	8.85	0.60	
4-Aug-11	12:15:07	13.45	5.60	3.77	8.85	0.62	
4-Aug-11	12:15:12	13.45	5.60	3.76	8.85	0.63	
4-Aug-11	12:15:17	13.45	5.60	3.76	8.85	0.64	
4-Aug-11	12:15:22	13.45	5.60	3.76	8.78	0.58	
4-Aug-11	12:15:27	13.44	5.60	3.77	8.75	0.61	
4-Aug-11	12:15:32	13.44	5.61	3.77	8.75	0.65	
4-Aug-11	12:15:37	13.44	5.61	3.78	8.75	0.63	
4-Aug-11	12:15:42	13.44	5.60	3.79	8.68	0.62	
4-Aug-11	12:15:47	13.44	5.60	3.79	8.65	0.64	
4-Aug-11	12:15:52	13.44	5.60	3.79	8.64	0.59	
4-Aug-11	12:15:57	13.44	5.60	3.77	8.65	0.58	
4-Aug-11	12:16:02	13.44	5.60	3.77	8.65	0.61	
4-Aug-11	12:16:07	13.44	5.60	3.78	8.65	0.59	
4-Aug-11	12:16:12	13.45	5.60	3.76	8.77	0.63	
4-Aug-11	12:16:17	13.44	5.60	3.75	8.85	0.62	
4-Aug-11	12:16:22	13.44	5.60	3.77	8.90	0.60	
4-Aug-11	12:16:27	13.45	5.60	3.76	8.95	0.63	
4-Aug-11	12:16:32	13.45	5.60	3.76	9.01	0.61	
4-Aug-11	12:16:37	13.45	5.60	3.75	9.05	0.62	
4-Aug-11	12:16:42	13.45	5.60	3.76	9.11	0.65	
4-Aug-11	12:16:47	13.45	5.60	3.76	9.15	0.65	
4-Aug-11	12:16:54	13.45	5.60	3.76	9.18	0.60	
4-Aug-11	12:16:58	13.45	5.60	3.76	9.25	0.63	
4-Aug-11	12:17:02	13.45	5.60	3.76	9.45	0.59	
4-Aug-11	12:17:07	13.45	5.61	3.78	9.44	0.59	
4-Aug-11	12:17:12	13.45	5.61	3.77	9.44	0.63	
4-Aug-11	12:17:17	13.44	5.61	3.78	9.44	0.59	
Average:	**12:17:22**	**13.44**	**5.61**	**3.73**	**9.43**	**0.63**	
4-Aug-11	12:17:36	13.45	5.60	3.77	9.34	0.59	
4-Aug-11	12:17:40	13.45	5.60	3.76	9.32	0.58	
4-Aug-11	12:17:45	13.45	5.60	3.76	9.24	0.66	
4-Aug-11	12:17:50	13.45	5.60	3.77	9.23	0.63	
4-Aug-11	12:17:55	13.45	5.60	3.77	9.15	0.63	
4-Aug-11	12:18:01	13.45	5.60	3.76	9.11	0.63	
4-Aug-11	12:18:05	13.45	5.60	3.76	9.05	0.65	

Source Testing and Consulting Services, Inc.

Instrumental Reference Method On-Line Data Unit # CT2A

	Parameter	O2	CO2	CO	NOx	THC	Comments
	Units	%V,d	ppmVd	ppmVd	ppmVd	ppmVd	
4-Aug-11	12:18:10	13.45	5.60	3.76	9.03	0.66	
4-Aug-11	12:18:15	13.45	5.60	3.75	8.95	0.67	
4-Aug-11	12:18:20	13.45	5.60	3.74	8.93	0.65	
4-Aug-11	12:18:25	13.45	5.60	3.73	8.85	0.66	
4-Aug-11	12:18:30	13.45	5.60	3.73	8.86	0.63	
4-Aug-11	12:18:35	13.45	5.60	3.74	8.95	0.63	
4-Aug-11	12:18:40	13.45	5.60	3.74	8.93	0.62	
4-Aug-11	12:18:45	13.45	5.60	3.73	8.85	0.64	
4-Aug-11	12:18:50	13.45	5.60	3.75	8.86	0.64	
4-Aug-11	12:18:55	13.45	5.60	3.76	8.94	0.62	
4-Aug-11	12:19:00	13.45	5.60	3.75	8.95	0.64	
4-Aug-11	12:19:05	13.45	5.60	3.74	8.94	0.63	
4-Aug-11	12:19:10	13.45	5.59	3.76	8.95	0.60	
4-Aug-11	12:19:15	13.45	5.59	3.77	8.95	0.58	
4-Aug-11	12:19:20	13.45	5.59	3.76	8.97	0.63	
4-Aug-11	12:19:25	13.45	5.59	3.76	9.05	0.63	
Average:	**12:19:28**	**13.45**	**5.60**	**3.75**	**9.02**	**0.63**	
4-Aug-11	12:20:04	13.45	5.60	3.76	9.05	0.62	COMPLIANCE BASE R1 B1
4-Aug-11	12:20:34	13.45	5.60	3.76	8.97	0.61	COMPLIANCE BASE R1 B1
4-Aug-11	12:21:04	13.46	5.59	3.76	9.01	0.63	COMPLIANCE BASE R1 B1
4-Aug-11	12:21:34	13.45	5.60	3.76	9.22	0.65	COMPLIANCE BASE R1 B1
4-Aug-11	12:22:04	13.44	5.61	3.73	9.43	0.64	COMPLIANCE BASE R1 B1
4-Aug-11	12:22:34	13.45	5.60	3.65	9.58	0.64	COMPLIANCE BASE R1 B1
4-Aug-11	12:23:04	13.47	5.59	3.57	9.47	0.60	COMPLIANCE BASE R1 B1
4-Aug-11	12:23:34	13.47	5.58	3.56	9.10	0.63	COMPLIANCE BASE R1 B1
4-Aug-11	12:24:04	13.45	5.60	3.58	8.59	0.62	COMPLIANCE BASE R1 B1
4-Aug-11	12:24:34	13.44	5.60	3.58	8.47	0.60	COMPLIANCE BASE R1 B1
4-Aug-11	12:25:04	13.46	5.59	3.59	8.79	0.59	COMPLIANCE BASE R1 B1
4-Aug-11	12:25:35	13.47	5.59	3.61	9.34	0.58	COMPLIANCE BASE R1 B1
4-Aug-11	12:26:04	13.47	5.58	3.59	9.48	0.57	COMPLIANCE BASE R1 B1
4-Aug-11	12:26:34	13.46	5.59	3.58	9.27	0.59	COMPLIANCE BASE R1 B1
4-Aug-11	12:27:04	13.45	5.59	3.59	9.03	0.59	COMPLIANCE BASE R1 B1
Average:	**12:27:05**	**13.45**	**5.60**	**3.65**	**9.12**	**0.61**	**COMPLIANCE BASE R1 B1**
4-Aug-11	12:28:17	13.46	5.59	3.66	8.92	0.58	COMPLIANCE BASE B2
4-Aug-11	12:28:47	13.44	5.60	3.65	8.53	0.56	COMPLIANCE BASE B2
4-Aug-11	12:29:17	13.44	5.59	3.61	8.38	0.56	COMPLIANCE BASE B2
4-Aug-11	12:29:47	13.46	5.58	3.60	8.64	0.55	COMPLIANCE BASE B2
4-Aug-11	12:30:17	13.44	5.60	3.64	8.78	0.55	COMPLIANCE BASE B2
4-Aug-11	12:30:47	13.44	5.60	3.62	8.75	0.54	COMPLIANCE BASE B2
4-Aug-11	12:31:17	13.44	5.60	3.57	8.87	0.54	COMPLIANCE BASE B2
4-Aug-11	12:31:47	13.46	5.59	3.57	8.95	0.52	COMPLIANCE BASE B2
4-Aug-11	12:32:17	13.46	5.59	3.59	8.76	0.51	COMPLIANCE BASE B2
4-Aug-11	12:32:47	13.46	5.59	3.58	8.34	0.51	COMPLIANCE BASE B2
4-Aug-11	12:33:17	13.45	5.59	3.56	8.19	0.51	COMPLIANCE BASE B2
Average:	**12:33:36**	**13.45**	**5.59**	**3.60**	**8.64**	**0.54**	**COMPLIANCE BASE B2**
4-Aug-11	12:34:10	13.45	5.60	3.58	8.29	0.49	COMPLIANCE BASE B3
4-Aug-11	12:34:40	13.45	5.60	3.54	8.35	0.53	COMPLIANCE BASE B3
4-Aug-11	12:35:10	13.47	5.58	3.50	8.26	0.50	COMPLIANCE BASE B3

Source Testing and Consulting Services, Inc.

Instrumental Reference Method On-Line Data Unit # CT2A

	Parameter	O2	CO2	CO	NOx	THC	Comments
	Units	%V,d	ppmVd	ppmVd	ppmVd	ppmVd	
4-Aug-11	12:35:41	13.47	5.59	3.51	8.01	0.47	COMPLIANCE BASE B3
4-Aug-11	12:36:10	13.45	5.60	3.52	7.73	0.48	COMPLIANCE BASE B3
4-Aug-11	12:36:40	13.46	5.59	3.51	7.75	0.48	COMPLIANCE BASE B3
4-Aug-11	12:37:10	13.47	5.58	3.52	8.15	0.49	COMPLIANCE BASE B3
4-Aug-11	12:37:40	13.46	5.58	3.56	8.28	0.48	COMPLIANCE BASE B3
4-Aug-11	12:38:10	13.45	5.59	3.52	8.13	0.48	COMPLIANCE BASE B3
Average:	**12:38:38**	**13.46**	**5.59**	**3.53**	**8.10**	**0.49**	**COMPLIANCE BASE B3**
4-Aug-11	12:42:51	13.48	5.55	2.44	6.71	0.49	COMPLIANCE BASE A1
4-Aug-11	12:43:21	13.47	5.56	3.05	7.63	0.49	COMPLIANCE BASE A1
4-Aug-11	12:43:51	13.47	5.57	3.59	7.85	0.46	COMPLIANCE BASE A1
4-Aug-11	12:44:21	13.46	5.57	3.72	7.75	0.47	COMPLIANCE BASE A1
4-Aug-11	12:44:51	13.46	5.58	3.60	7.67	0.49	COMPLIANCE BASE A1
4-Aug-11	12:45:21	13.61	5.58	3.57	7.75	0.51	COMPLIANCE BASE A1
4-Aug-11	12:45:51	13.77	5.57	3.55	7.63	0.50	COMPLIANCE BASE A1
4-Aug-11	12:46:21	13.70	5.58	3.53	7.30	0.52	COMPLIANCE BASE A1
Average:	**12:46:39**	**13.55**	**5.57**	**3.38**	**7.54**	**0.49**	**COMPLIANCE BASE A1**
4-Aug-11	12:47:26	13.58	5.58	3.53	7.41	0.46	COMPLIANCE BASE A2
4-Aug-11	12:47:56	13.66	5.57	3.52	7.71	0.50	COMPLIANCE BASE A2
4-Aug-11	12:48:26	13.48	5.57	3.51	7.69	0.50	COMPLIANCE BASE A2
4-Aug-11	12:48:56	13.47	5.58	3.53	7.36	0.49	COMPLIANCE BASE A2
4-Aug-11	12:49:26	13.46	5.58	3.53	7.15	0.50	COMPLIANCE BASE A2
4-Aug-11	12:49:56	13.46	5.58	3.54	7.15	0.50	COMPLIANCE BASE A2
4-Aug-11	12:50:26	13.45	5.59	3.55	7.15	0.48	COMPLIANCE BASE A2
4-Aug-11	12:50:56	13.46	5.58	3.52	7.15	0.48	COMPLIANCE BASE A2
4-Aug-11	12:51:27	13.48	5.57	3.48	7.12	0.48	COMPLIANCE BASE A2
Average:	**12:51:56**	**13.50**	**5.58**	**3.52**	**7.32**	**0.49**	**COMPLIANCE BASE A2**
4-Aug-11	12:52:36	13.45	5.59	3.51	7.05	0.48	COMPLIANCE BASE A3
4-Aug-11	12:53:06	13.45	5.59	3.49	7.12	0.47	COMPLIANCE BASE A3
4-Aug-11	12:53:36	13.47	5.58	3.48	7.55	0.47	COMPLIANCE BASE A3
4-Aug-11	12:54:06	13.47	5.58	3.52	7.62	0.49	COMPLIANCE BASE A3
4-Aug-11	12:54:36	13.47	5.58	3.53	7.18	0.47	COMPLIANCE BASE A3
4-Aug-11	12:55:06	13.47	5.59	3.54	6.88	0.49	COMPLIANCE BASE A3
4-Aug-11	12:55:36	13.47	5.59	3.59	6.88	0.52	COMPLIANCE BASE A3
4-Aug-11	12:56:06	13.47	5.58	3.63	7.13	0.50	COMPLIANCE BASE A3
4-Aug-11	12:56:36	13.48	5.57	3.63	7.35	0.48	COMPLIANCE BASE A3
4-Aug-11	12:57:06	13.48	5.58	3.66	7.31	0.50	COMPLIANCE BASE A3
4-Aug-11	12:57:36	13.45	5.60	3.66	7.28	0.49	COMPLIANCE BASE A3
4-Aug-11	12:58:06	13.45	5.60	3.62	7.48	0.49	COMPLIANCE BASE A3
Average:	**12:58:14**	**13.47**	**5.59**	**3.57**	**7.24**	**0.49**	**COMPLIANCE BASE A3**
4-Aug-11	13:06:31	13.48	5.58	3.64	7.81	0.50	COMPLIANCE BASE D1
4-Aug-11	13:07:01	13.48	5.58	3.61	8.05	0.48	COMPLIANCE BASE D1
4-Aug-11	13:07:31	13.49	5.57	3.60	8.18	0.48	COMPLIANCE BASE D1
4-Aug-11	13:08:01	13.48	5.57	3.66	8.07	0.47	COMPLIANCE BASE D1
4-Aug-11	13:08:31	13.48	5.58	3.68	7.67	0.48	COMPLIANCE BASE D1
4-Aug-11	13:09:04	13.49	5.57	3.68	7.51	0.48	COMPLIANCE BASE D1
4-Aug-11	13:09:32	13.47	5.58	3.73	7.67	0.50	COMPLIANCE BASE D1
4-Aug-11	13:10:01	13.44	5.60	3.74	7.90	0.48	COMPLIANCE BASE D1
4-Aug-11	13:10:31	13.44	5.60	3.65	8.19	0.50	COMPLIANCE BASE D1
Average:	**13:10:51**	**13.47**	**5.58**	**3.66**	**7.89**	**0.49**	**COMPLIANCE BASE D1**

Source Testing and Consulting Services, Inc.

Instrumental Reference Method On-Line Data Unit # CT2A

	Parameter	O2	CO2	CO	NOx	THC	Comments
	Units	%V,d	ppmVd	ppmVd	ppmVd	ppmVd	
4-Aug-11	13:11:28	13.47	5.58	3.54	8.09	0.50	COMPLIANCE BASE D2
4-Aug-11	13:11:58	13.47	5.59	3.52	7.37	0.47	COMPLIANCE BASE D2
4-Aug-11	13:12:29	13.47	5.57	3.50	6.93	0.49	COMPLIANCE BASE D2
4-Aug-11	13:12:58	13.48	5.59	3.53	6.77	0.49	COMPLIANCE BASE D2
4-Aug-11	13:13:28	13.50	5.56	3.56	6.94	0.48	COMPLIANCE BASE D2
4-Aug-11	13:13:58	13.49	5.56	3.61	7.26	0.49	COMPLIANCE BASE D2
4-Aug-11	13:14:28	13.47	5.57	3.62	7.42	0.46	COMPLIANCE BASE D2
4-Aug-11	13:14:58	13.47	5.58	3.60	7.52	0.46	COMPLIANCE BASE D2
4-Aug-11	13:15:28	13.50	5.56	3.55	7.66	0.46	COMPLIANCE BASE D2
Average:	**13:15:31**	**13.48**	**5.57**	**3.56**	**7.33**	**0.48**	**COMPLIANCE BASE D2**
4-Aug-11	13:16:05	13.49	5.57	3.58	7.58	0.47	COMPLIANCE BASE D3
4-Aug-11	13:16:35	13.47	5.58	3.56	7.21	0.46	COMPLIANCE BASE D3
4-Aug-11	13:17:05	13.47	5.58	3.50	6.95	0.48	COMPLIANCE BASE D3
4-Aug-11	13:17:35	13.48	5.57	3.48	7.01	0.47	COMPLIANCE BASE D3
4-Aug-11	13:18:05	13.48	5.58	3.51	7.17	0.45	COMPLIANCE BASE D3
4-Aug-11	13:18:35	13.46	5.59	3.50	7.12	0.47	COMPLIANCE BASE D3
4-Aug-11	13:19:06	13.45	5.59	3.43	7.08	0.46	COMPLIANCE BASE D3
4-Aug-11	13:19:35	13.47	5.58	3.44	7.31	0.47	COMPLIANCE BASE D3
4-Aug-11	13:20:05	13.47	5.58	3.47	7.34	0.48	COMPLIANCE BASE D3
Average:	**13:20:26**	**13.47**	**5.58**	**3.50**	**7.20**	**0.47**	**COMPLIANCE BASE D3**
4-Aug-11	13:24:01	13.42	5.59	2.15	7.73	0.46	COMPLIANCE BASE C1
4-Aug-11	13:24:31	13.45	5.57	2.60	8.41	0.46	COMPLIANCE BASE C1
4-Aug-11	13:25:01	13.46	5.56	3.16	8.37	0.47	COMPLIANCE BASE C1
4-Aug-11	13:25:31	13.46	5.56	3.33	8.25	0.47	COMPLIANCE BASE C1
4-Aug-11	13:26:01	13.45	5.57	3.29	8.34	0.45	COMPLIANCE BASE C1
4-Aug-11	13:26:31	13.46	5.55	3.31	8.83	0.48	COMPLIANCE BASE C1
4-Aug-11	13:27:01	13.48	5.55	3.37	9.25	0.45	COMPLIANCE BASE C1
4-Aug-11	13:27:31	13.47	5.56	3.42	9.13	0.46	COMPLIANCE BASE C1
4-Aug-11	13:28:01	13.45	5.58	3.43	8.70	0.46	COMPLIANCE BASE C1
Average:	**13:28:13**	**13.45**	**5.57**	**3.12**	**8.56**	**0.46**	**COMPLIANCE BASE C1**
4-Aug-11	13:28:49	13.44	5.58	3.42	8.94	0.46	COMPLIANCE BASE C2
4-Aug-11	13:29:19	13.45	5.57	3.38	9.11	0.45	COMPLIANCE BASE C2
4-Aug-11	13:29:49	13.46	5.57	3.34	9.32	0.44	COMPLIANCE BASE C2
4-Aug-11	13:30:19	13.45	5.57	3.31	8.95	0.48	COMPLIANCE BASE C2
4-Aug-11	13:30:49	13.47	5.56	3.30	8.61	0.45	COMPLIANCE BASE C2
4-Aug-11	13:31:19	13.49	5.55	3.35	8.50	0.46	COMPLIANCE BASE C2
4-Aug-11	13:31:49	13.47	5.56	3.43	8.40	0.45	COMPLIANCE BASE C2
4-Aug-11	13:32:19	13.45	5.58	3.48	8.43	0.47	COMPLIANCE BASE C2
Average:	**13:32:26**	**13.46**	**5.57**	**3.38**	**8.78**	**0.46**	**COMPLIANCE BASE C2**
4-Aug-11	13:33:00	13.45	5.58	3.41	9.31	0.46	COMPLIANCE BASE C3
4-Aug-11	13:33:30	13.46	5.57	3.38	9.90	0.45	COMPLIANCE BASE C3
4-Aug-11	13:34:00	13.46	5.57	3.32	9.67	0.45	COMPLIANCE BASE C3
4-Aug-11	13:34:30	13.46	5.57	3.27	9.02	0.46	COMPLIANCE BASE C3
4-Aug-11	13:35:00	13.45	5.57	3.25	8.40	0.47	COMPLIANCE BASE C3
4-Aug-11	13:35:30	13.45	5.58	3.27	8.25	0.45	COMPLIANCE BASE C3
4-Aug-11	13:36:00	13.45	5.58	3.27	8.45	0.44	COMPLIANCE BASE C3
4-Aug-11	13:36:30	13.47	5.57	3.26	8.86	0.46	COMPLIANCE BASE C3
4-Aug-11	13:37:00	13.47	5.56	3.27	9.07	0.45	COMPLIANCE BASE C3
Average:	**13:37:05**	**13.46**	**5.57**	**3.30**	**8.99**	**0.46**	**COMPLIANCE BASE C3**

Source Testing and Consulting Services, Inc.

Instrumental Reference Method On-Line Data Unit # CT2A

	Parameter	O2	CO2	CO	NOx	THC	Comments
	Units	%V,d	ppmVd	ppmVd	ppmVd	ppmVd	
4-Aug-11	13:38:42	9.00	9.09	1.32	4.14	-0.19	THC=0
4-Aug-11	13:38:47	9.00	9.09	1.13	3.74	0.00	THC=0
4-Aug-11	13:38:52	9.00	9.09	1.05	3.14	-0.01	THC=0
4-Aug-11	13:38:57	9.00	9.09	1.03	2.36	-0.07	THC=0
4-Aug-11	13:39:02	9.00	9.10	0.95	1.84	0.00	THC=0
4-Aug-11	13:39:07	9.00	9.10	0.87	1.59	-0.06	THC=0
4-Aug-11	13:39:12	9.00	9.10	0.86	1.44	0.00	THC=0
4-Aug-11	13:39:17	9.00	9.10	0.86	1.07	-0.01	THC=0
4-Aug-11	13:39:22	9.00	9.10	0.85	0.84	0.00	THC=0
Average:	**13:39:26**	**9.00**	**9.10**	**0.99**	**2.24**	**-0.04**	**THC=0**
4-Aug-11	13:40:21	9.01	9.11	0.05	0.03	-0.28	Cal:O2=9 CO2=8.9
4-Aug-11	13:40:27	9.01	9.10	0.05	0.03	-0.27	Cal:O2=9 CO2=8.9
4-Aug-11	13:40:31	9.01	9.10	0.04	0.03	-0.30	Cal:O2=9 CO2=8.9
4-Aug-11	13:40:36	9.01	9.11	0.04	0.00	-0.29	Cal:O2=9 CO2=8.9
4-Aug-11	13:40:41	9.01	9.11	0.05	-0.07	-0.29	Cal:O2=9 CO2=8.9
Average:	**13:40:43**	**9.01**	**9.11**	**0.05**	**0.00**	**-0.29**	**Cal:O2=9 CO2=8.9**
Gas Value:	13:40:43	9	8.9	0	#N/A	#N/A	O2=9 CO2=8.9
Diff%ofSpan	13:40:43	0.05%	1.15%	0.05%	#N/A	#N/A	
4-Aug-11	13:41:50	0.08	0.25	2.46	-0.07	3.02	Cal:THC=3
4-Aug-11	13:41:55	0.08	0.25	3.03	-0.18	3.03	Cal:THC=3
4-Aug-11	13:42:00	0.08	0.25	4.26	-0.17	3.03	Cal:THC=3
4-Aug-11	13:42:05	0.08	0.25	5.16	0.15	3.01	Cal:THC=3
4-Aug-11	13:42:10	0.07	0.24	6.14	1.13	3.02	Cal:THC=3
4-Aug-11	13:42:15	0.06	0.24	6.89	1.30	3.01	Cal:THC=3
Average:	**13:42:16**	**0.08**	**0.25**	**4.66**	**0.36**	**3.02**	**Cal:THC=3**
Gas Value:	13:42:16	0	0	0	#N/A	3	THC=3
Diff%ofSpan	13:42:16	0.34%	1.37%	5.09%	#N/A	0.02%	
4-Aug-11	13:46:29	0.04	0.20	9.28	8.84	2.92	Cal:NO=8.8 co=9.1
4-Aug-11	13:46:34	0.04	0.20	9.28	8.84	2.86	Cal:NO=8.8 co=9.1
4-Aug-11	13:46:39	0.04	0.20	9.28	8.84	3.39	Cal:NO=8.8 co=9.1
4-Aug-11	13:46:44	0.04	0.20	9.28	8.84	0.57	Cal:NO=8.8 co=9.1
Average:	**13:46:45**	**0.04**	**0.20**	**9.28**	**8.84**	**2.44**	**Cal:NO=8.8 co=9.1**
Gas Value:	13:46:45	0	8.8	9.1	#N/A	#N/A	NO=8.8 co=9.1
Diff%ofSpan	13:46:45	0.18%	-47.78%	0.20%	#N/A	#N/A	
4-Aug-11	13:48:20	13.50	5.57	3.22	9.44	0.10	
4-Aug-11	13:48:25	13.49	5.58	3.18	9.45	0.13	
4-Aug-11	13:48:30	13.49	5.58	3.18	9.44	0.13	
Average:	**13:48:33**	**13.50**	**5.58**	**3.19**	**9.44**	**0.12**	
4-Aug-11	13:49:18	13.48	5.58	3.18	9.75	0.14	R2 C3
4-Aug-11	13:49:48	13.49	5.56	3.19	10.15	0.19	R2 C3
4-Aug-11	13:50:18	13.49	5.56	3.25	10.06	0.19	R2 C3
4-Aug-11	13:50:48	13.48	5.56	3.28	9.65	0.20	R2 C3
4-Aug-11	13:51:18	13.46	5.57	3.33	9.36	0.21	R2 C3
4-Aug-11	13:51:48	13.45	5.57	3.38	9.46	0.22	R2 C3
4-Aug-11	13:52:18	13.46	5.57	3.39	9.81	0.23	R2 C3
4-Aug-11	13:52:48	13.47	5.56	3.38	10.08	0.20	R2 C3
4-Aug-11	13:53:18	13.48	5.55	3.41	9.91	0.25	R2 C3
4-Aug-11	13:53:48	13.46	5.56	3.45	9.44	0.23	R2 C3
4-Aug-11	13:54:18	13.45	5.57	3.46	9.25	0.22	R2 C3

Source Testing and Consulting Services, Inc.

Instrumental Reference Method On-Line Data Unit # CT2A

	Parameter	O2	CO2	CO	NOx	THC	Comments
	Units	%V,d	ppmVd	ppmVd	ppmVd	ppmVd	
4-Aug-11	13:54:48	13.45	5.57	3.46	9.66	0.25	R2 C3
Average:	**13:55:09**	**13.47**	**5.57**	**3.35**	**9.72**	**0.21**	**R2 C3**
4-Aug-11	13:55:43	13.46	5.56	3.45	10.31	0.25	R2 C2
4-Aug-11	13:56:13	13.45	5.57	3.43	9.98	0.25	R2 C2
4-Aug-11	13:56:43	13.46	5.57	3.41	9.54	0.24	R2 C2
4-Aug-11	13:57:13	13.47	5.56	3.43	9.44	0.23	R2 C2
4-Aug-11	13:57:43	13.46	5.56	3.47	9.44	0.26	R2 C2
4-Aug-11	13:58:13	13.45	5.56	3.46	9.48	0.27	R2 C2
4-Aug-11	13:58:43	13.45	5.57	3.44	9.74	0.22	R2 C2
4-Aug-11	13:59:13	13.45	5.56	3.42	10.04	0.26	R2 C2
4-Aug-11	13:59:43	13.45	5.57	3.40	10.14	0.26	R2 C2
4-Aug-11	14:00:13	13.45	5.57	3.37	9.95	0.24	R2 C2
Average:	**14:00:31**	**13.46**	**5.57**	**3.43**	**9.81**	**0.25**	**R2 C2**
4-Aug-11	14:01:16	13.44	5.58	3.33	9.37	0.24	R2 2C1
4-Aug-11	14:01:45	13.46	5.57	3.33	9.43	0.25	R2 2C1
4-Aug-11	14:02:15	13.47	5.55	3.36	9.72	0.23	R2 2C1
4-Aug-11	14:02:45	13.45	5.57	3.41	9.75	0.23	R2 2C1
4-Aug-11	14:03:16	13.44	5.58	3.42	9.89	0.24	R2 2C1
4-Aug-11	14:03:45	13.43	5.58	3.41	10.21	0.24	R2 2C1
4-Aug-11	14:04:15	13.43	5.58	3.38	10.69	0.23	R2 2C1
4-Aug-11	14:04:45	13.45	5.57	3.33	10.70	0.23	R2 2C1
4-Aug-11	14:05:15	13.48	5.55	3.30	9.95	0.20	R2 2C1
4-Aug-11	14:05:45	13.46	5.57	3.33	9.03	0.25	R2 2C1
Average:	**14:06:01**	**13.45**	**5.57**	**3.36**	**9.87**	**0.23**	**R2 2C1**
4-Aug-11	14:09:36	13.48	5.55	2.58	7.84	0.27	R2 D1
4-Aug-11	14:10:06	13.45	5.56	2.79	8.25	0.24	R2 D1
4-Aug-11	14:10:36	13.46	5.56	3.36	8.01	0.24	R2 D1
4-Aug-11	14:11:06	13.47	5.55	3.53	7.89	0.24	R2 D1
4-Aug-11	14:11:36	13.45	5.56	3.49	7.90	0.24	R2 D1
4-Aug-11	14:12:06	13.45	5.57	3.49	8.14	0.25	R2 D1
4-Aug-11	14:12:37	13.46	5.56	3.46	8.50	0.21	R2 D1
4-Aug-11	14:13:06	13.46	5.56	3.48	8.78	0.22	R2 D1
4-Aug-11	14:13:36	13.46	5.56	3.47	8.70	0.24	R2 D1
Average:	**14:13:41**	**13.46**	**5.56**	**3.29**	**8.22**	**0.24**	**R2 D1**
4-Aug-11	14:14:18	13.47	5.55	3.50	8.52	0.24	R2 D2
4-Aug-11	14:14:47	13.48	5.55	3.53	8.10	0.22	R2 D2
4-Aug-11	14:15:17	13.47	5.55	3.56	7.86	0.21	R2 D2
4-Aug-11	14:15:47	13.46	5.56	3.54	7.86	0.21	R2 D2
4-Aug-11	14:16:18	13.47	5.55	3.57	8.12	0.22	R2 D2
4-Aug-11	14:16:47	13.47	5.55	3.59	8.40	0.19	R2 D2
4-Aug-11	14:17:18	13.45	5.57	3.58	8.40	0.24	R2 D2
4-Aug-11	14:17:47	13.44	5.57	3.53	8.23	0.21	R2 D2
Average:	**14:18:09**	**13.46**	**5.56**	**3.55**	**8.18**	**0.22**	**R2 D2**
4-Aug-11	14:18:45	13.46	5.56	3.45	7.92	0.21	R2 D3
4-Aug-11	14:19:15	13.43	5.56	3.42	7.63	0.21	R2 D3
4-Aug-11	14:19:46	13.43	5.57	3.41	7.45	0.12	R2 D3
4-Aug-11	14:20:15	13.43	5.57	3.41	7.45	0.11	R2 D3
4-Aug-11	14:20:45	13.43	5.58	3.41	7.45	0.11	R2 D3
4-Aug-11	14:21:15	13.43	5.58	3.41	7.45	0.11	R2 D3

Source Testing and Consulting Services, Inc.

Instrumental Reference Method On-Line Data Unit # CT2A

	Parameter	O2	CO2	CO	NOx	THC	Comments
	Units	%V,d	ppmVd	ppmVd	ppmVd	ppmVd	
4-Aug-11	14:21:46	13.43	5.58	3.41	7.45	0.11 R2	D3
4-Aug-11	14:22:15	13.45	5.56	3.40	8.64	0.20 R2	D3
4-Aug-11	14:22:45	13.46	5.55	3.42	8.86	0.20 R2	D3
Average:	**14:23:13**	**13.44**	**5.57**	**3.41**	**7.81**	**0.15 R2**	**D3**
4-Aug-11	14:29:39	13.46	5.55	3.33	10.64	0.18 R2	A1
4-Aug-11	14:30:09	13.46	5.55	3.37	10.73	0.18 R2	A1
4-Aug-11	14:30:39	13.43	5.57	3.42	10.44	0.16 R2	A1
4-Aug-11	14:31:09	13.46	5.55	3.43	10.64	0.15 R2	A1
4-Aug-11	14:31:39	13.45	5.56	3.44	10.62	0.19 R2	A1
4-Aug-11	14:32:09	13.46	5.55	3.46	10.52	0.19 R2	A1
4-Aug-11	14:32:39	13.47	5.54	3.47	10.56	0.17 R2	A1
4-Aug-11	14:33:09	13.45	5.55	3.50	10.39	0.16 R2	A1
Average:	**14:33:36**	**13.45**	**5.55**	**3.43**	**10.57**	**0.17 R2**	**A1**
4-Aug-11	14:34:09	13.43	5.57	3.54	10.40	0.19 R2	A2
4-Aug-11	14:34:39	13.42	5.58	3.45	10.50	0.22 R2	A2
4-Aug-11	14:35:09	13.46	5.55	3.41	10.95	0.19 R2	A2
4-Aug-11	14:35:39	13.48	5.54	3.39	10.15	0.15 R2	A2
4-Aug-11	14:36:09	13.46	5.55	3.41	9.74	0.17 R2	A2
4-Aug-11	14:36:39	13.44	5.56	3.40	9.43	0.20 R2	A2
4-Aug-11	14:37:09	13.45	5.56	3.42	9.65	0.20 R2	A2
4-Aug-11	14:37:39	13.46	5.55	3.43	9.75	0.17 R2	A2
4-Aug-11	14:38:10	13.46	5.55	3.43	9.75	0.17 R2	A2
4-Aug-11	14:38:39	13.46	5.55	3.43	9.75	0.17 R2	A2
Average:	**14:39:06**	**13.45**	**5.56**	**3.43**	**10.01**	**0.18 R2**	**A2**
4-Aug-11	14:39:48	13.46	5.55	3.47	9.52	0.22 R2	A3
4-Aug-11	14:40:18	13.46	5.55	3.49	9.37	0.21 R2	A3
4-Aug-11	14:40:48	13.47	5.55	3.49	9.19	0.20 R2	A3
4-Aug-11	14:41:18	13.46	5.55	3.52	9.06	0.23 R2	A3
4-Aug-11	14:41:48	13.46	5.56	3.52	9.07	0.21 R2	A3
4-Aug-11	14:42:18	13.45	5.56	3.52	9.20	0.22 R2	A3
4-Aug-11	14:42:48	13.45	5.56	3.46	9.34	0.21 R2	A3
4-Aug-11	14:43:18	13.45	5.56	3.43	9.44	0.21 R2	A3
4-Aug-11	14:43:48	13.46	5.56	3.41	9.35	0.22 R2	A3
4-Aug-11	14:44:18	13.46	5.55	3.42	9.26	0.21 R2	A3
4-Aug-11	14:44:48	13.46	5.56	3.42	9.16	0.19 R2	A3
Average:	**14:44:59**	**13.46**	**5.56**	**3.47**	**9.27**	**0.21 R2**	**A3**
4-Aug-11	14:51:21	13.44	5.58	3.30	9.48	0.21 R2	B1
4-Aug-11	14:51:51	13.42	5.58	3.27	9.42	0.19 R2	B1
4-Aug-11	14:52:22	13.44	5.54	3.22	9.36	0.17 R2	B1
4-Aug-11	14:52:51	13.46	5.55	3.23	9.66	0.20 R2	B1
4-Aug-11	14:53:21	13.44	5.57	3.30	9.65	0.18 R2	B1
4-Aug-11	14:53:51	13.44	5.57	3.36	9.45	0.18 R2	B1
4-Aug-11	14:54:21	13.44	5.57	3.36	9.55	0.18 R2	B1
4-Aug-11	14:54:51	13.45	5.57	3.37	9.65	0.20 R2	B1
4-Aug-11	14:55:21	13.45	5.56	3.35	9.68	0.20 R2	B1
4-Aug-11	14:55:51	13.41	5.57	3.33	8.94	0.20 R2	B1
Average:	**14:56:01**	**13.44**	**5.57**	**3.31**	**9.48**	**0.19 R2**	**B1**
4-Aug-11	14:56:35	13.43	5.59	3.30	8.42	0.17 R2	B2
4-Aug-11	14:57:05	13.48	5.55	3.29	8.39	0.18 R2	B2

Source Testing and Consulting Services, Inc.

Instrumental Reference Method On-Line Data Unit # CT2A

	Parameter	O2	CO2	CO	NOx	THC	Comments
	Units	%V,d	ppmVd	ppmVd	ppmVd	ppmVd	
4-Aug-11	14:57:35	13.46	5.56	3.33	8.71	0.17	R2 B2
4-Aug-11	14:58:05	13.44	5.57	3.33	9.14	0.13	R2 B2
4-Aug-11	14:58:35	13.45	5.57	3.30	9.41	0.17	R2 B2
4-Aug-11	14:59:05	13.45	5.57	3.29	9.58	0.19	R2 B2
4-Aug-11	14:59:35	13.45	5.57	3.30	9.48	0.15	R2 B2
4-Aug-11	15:00:05	13.47	5.56	3.28	8.96	0.16	R2 B2
4-Aug-11	15:00:35	13.45	5.57	3.29	8.26	0.16	R2 B2
Average:	**15:01:02**	**13.45**	**5.57**	**3.30**	**8.93**	**0.16**	**R2 B2**
4-Aug-11	15:01:37	13.46	5.56	3.26	8.64	0.18	R2 B3
4-Aug-11	15:02:07	13.46	5.56	3.27	9.34	0.19	R2 B3
4-Aug-11	15:02:37	13.44	5.58	3.26	9.40	0.16	R2 B3
4-Aug-11	15:03:07	13.46	5.57	3.22	8.98	0.16	R2 B3
4-Aug-11	15:03:37	13.47	5.55	3.24	8.63	0.19	R2 B3
4-Aug-11	15:04:07	13.47	5.56	3.27	8.26	0.17	R2 B3
4-Aug-11	15:04:37	13.44	5.58	3.18	7.93	0.18	R2 B3
4-Aug-11	15:05:07	13.43	5.58	3.16	8.05	0.18	R2 B3
Average:	**15:05:10**	**13.45**	**5.57**	**3.23**	**8.66**	**0.18**	**R2 B3**
4-Aug-11	15:07:05	9.00	9.09	0.91	1.34	-0.34	
4-Aug-11	15:07:14	9.00	9.09	0.88	1.13	-0.34	
4-Aug-11	15:07:18	9.00	9.09	0.88	0.73	-0.34	
Average:	**15:07:24**	**9.00**	**9.09**	**0.89**	**1.07**	**-0.34**	
4-Aug-11	15:07:31	9.00	9.09	0.88	0.54	-0.02	THC=0
4-Aug-11	15:07:36	9.00	9.09	0.88	0.33	-0.05	THC=0
4-Aug-11	15:07:41	9.00	9.10	0.88	0.32	-0.06	THC=0
4-Aug-11	15:07:46	9.00	9.10	0.85	0.24	-0.04	THC=0
Average:	**15:07:49**	**9.00**	**9.10**	**0.87**	**0.36**	**-0.04**	**THC=0**
4-Aug-11	15:08:00	9.00	9.11	0.86	0.11	-0.39	Cal:O2=9 CO2=8.9
4-Aug-11	15:08:05	9.00	9.11	0.85	0.03	-0.36	Cal:O2=9 CO2=8.9
4-Aug-11	15:08:10	9.01	9.10	0.85	0.03	-0.42	Cal:O2=9 CO2=8.9
4-Aug-11	15:08:15	9.00	9.10	0.86	0.03	1.99	Cal:O2=9 CO2=8.9
4-Aug-11	15:08:20	9.00	9.10	0.84	0.01	3.72	Cal:O2=9 CO2=8.9
4-Aug-11	15:08:25	9.01	9.11	0.82	-0.07	3.07	Cal:O2=9 CO2=8.9
Average:	**15:08:26**	**9.00**	**9.11**	**0.85**	**0.02**	**1.27**	**Cal:O2=9 CO2=8.9**
Gas Value:	15:08:26	9	8.9	0	#N/A	#N/A	O2=9 CO2=8.9
Diff%ofSpan	15:08:26	0.02%	1.14%	0.93%	#N/A	#N/A	
4-Aug-11	15:08:41	9.01	9.11	0.03	-0.07	2.96	THC=3
4-Aug-11	15:08:46	9.01	9.11	0.03	-0.06	2.96	THC=3
4-Aug-11	15:08:52	9.01	9.11	0.02	-0.07	2.94	THC=3
4-Aug-11	15:08:56	9.01	9.11	0.03	-0.06	2.98	THC=3
4-Aug-11	15:09:01	9.01	9.11	0.03	-0.07	2.99	THC=3
4-Aug-11	15:09:06	9.01	9.10	0.01	-0.07	2.95	THC=3
4-Aug-11	15:09:11	9.01	9.11	0.01	-0.07	2.99	THC=3
4-Aug-11	15:09:16	9.01	9.11	0.01	-0.07	2.99	THC=3
Average:	**15:09:21**	**9.01**	**9.11**	**0.02**	**-0.07**	**2.97**	**THC=3**
4-Aug-11	15:14:33	0.04	0.21	9.26	8.94	0.05	Cal:NO=8.8 co=9.1
4-Aug-11	15:14:39	0.04	0.21	9.26	8.94	0.01	Cal:NO=8.8 co=9.1
4-Aug-11	15:14:43	0.04	0.21	9.26	8.94	-0.03	Cal:NO=8.8 co=9.1
4-Aug-11	15:14:48	0.04	0.21	9.26	8.94	-0.06	Cal:NO=8.8 co=9.1
4-Aug-11	15:14:53	0.04	0.21	9.26	9.02	-0.02	Cal:NO=8.8 co=9.1

Source Testing and Consulting Services, Inc.

Instrumental Reference Method On-Line Data Unit # CT2A

	Parameter	O2	CO2	CO	NOx	THC	Comments
	Units	%V,d	ppmVd	ppmVd	ppmVd	ppmVd	
4-Aug-11	15:14:58	0.04	0.21	9.26	9.04	0.03	Cal:NO=8.8 co=9.1
4-Aug-11	15:15:03	0.04	0.21	9.26	9.04	0.03	Cal:NO=8.8 co=9.1
4-Aug-11	15:15:08	0.04	0.21	9.26	9.04	0.01	Cal:NO=8.8 co=9.1
4-Aug-11	15:15:13	0.04	0.21	9.26	8.96	0.05	Cal:NO=8.8 co=9.1
Average:	**15:15:15**	**0.04**	**0.21**	**9.26**	**8.99**	**0.01**	**Cal:NO=8.8 co=9.1**
Gas Value:	15:15:15	0	8.8	9.1	#N/A	#N/A	NO=8.8 co=9.1
Diff%ofSpan	15:15:15	0.18%	-47.72%	0.17%	#N/A	#N/A	
4-Aug-11	15:19:28	13.45	5.58	3.29	8.88	0.01	R3 B3
4-Aug-11	15:19:58	13.45	5.58	3.24	8.99	0.00	R3 B3
4-Aug-11	15:20:28	13.45	5.57	3.18	8.71	0.02	R3 B3
4-Aug-11	15:20:58	13.46	5.57	3.16	7.98	0.00	R3 B3
4-Aug-11	15:21:28	13.46	5.57	3.17	7.24	0.01	R3 B3
4-Aug-11	15:21:58	13.46	5.57	3.20	6.99	0.01	R3 B3
4-Aug-11	15:22:28	13.46	5.57	3.23	7.40	0.02	R3 B3
4-Aug-11	15:23:01	13.46	5.57	3.24	8.17	0.01	R3 B3
4-Aug-11	15:23:29	13.45	5.57	3.20	8.93	0.00	R3 B3
4-Aug-11	15:23:58	13.46	5.57	3.19	9.02	0.00	R3 B3
4-Aug-11	15:24:28	13.47	5.56	3.21	8.56	0.02	R3 B3
Average:	**15:24:49**	**13.46**	**5.57**	**3.21**	**8.26**	**0.01**	**R3 B3**
4-Aug-11	15:25:23	13.46	5.57	3.31	7.43	0.01	R3 B2
4-Aug-11	15:25:54	13.44	5.58	3.38	7.44	0.03	R3 B2
4-Aug-11	15:26:23	13.43	5.59	3.39	8.38	0.03	R3 B2
4-Aug-11	15:26:53	13.44	5.58	3.35	9.75	0.02	R3 B2
4-Aug-11	15:27:23	13.44	5.58	3.31	10.61	0.03	R3 B2
4-Aug-11	15:27:54	13.42	5.60	3.22	10.19	0.02	R3 B2
4-Aug-11	15:28:23	13.45	5.58	3.16	9.13	0.05	R3 B2
4-Aug-11	15:28:53	13.45	5.58	3.18	8.27	0.03	R3 B2
4-Aug-11	15:29:23	13.44	5.59	3.21	7.84	0.02	R3 B2
4-Aug-11	15:29:54	13.43	5.60	3.22	8.09	0.05	R3 B2
4-Aug-11	15:30:23	13.43	5.59	3.22	8.91	0.04	R3 B2
4-Aug-11	15:30:53	13.44	5.59	3.24	9.74	0.03	R3 B2
Average:	**15:31:10**	**13.44**	**5.58**	**3.27**	**8.81**	**0.03**	**R3 B2**
4-Aug-11	15:31:44	13.43	5.59	3.24	9.51	0.06	R3 B1
4-Aug-11	15:32:14	13.43	5.59	3.27	8.75	0.04	R3 B1
4-Aug-11	15:32:44	13.45	5.58	3.29	8.49	0.04	R3 B1
4-Aug-11	15:33:14	13.46	5.58	3.37	8.92	0.04	R3 B1
4-Aug-11	15:33:44	13.44	5.59	3.44	9.28	0.05	R3 B1
4-Aug-11	15:34:14	13.44	5.59	3.44	9.85	0.05	R3 B1
4-Aug-11	15:34:44	13.44	5.59	3.44	10.61	0.06	R3 B1
4-Aug-11	15:35:14	13.43	5.59	3.44	10.89	0.07	R3 B1
4-Aug-11	15:35:44	13.43	5.59	3.38	10.41	0.04	R3 B1
Average:	**15:35:49**	**13.44**	**5.59**	**3.37**	**9.63**	**0.05**	**R3 B1**
4-Aug-11	15:39:42	13.47	5.56	2.19	7.95	0.05	R3 A1
4-Aug-11	15:40:12	13.47	5.56	2.54	8.27	0.03	R3 A1
4-Aug-11	15:40:42	13.45	5.58	3.18	8.33	0.04	R3 A1
4-Aug-11	15:41:12	13.44	5.58	3.58	8.14	0.03	R3 A1
4-Aug-11	15:41:42	13.46	5.58	3.50	8.37	0.00	R3 A1
4-Aug-11	15:42:12	13.47	5.57	3.45	8.81	0.05	R3 A1
4-Aug-11	15:42:42	13.45	5.57	3.45	8.96	0.04	R3 A1

Source Testing and Consulting Services, Inc.

Instrumental Reference Method On-Line Data Unit # CT2A

	Parameter	O2	CO2	CO	NOx	THC	Comments
	Units	%V,d	ppmVd	ppmVd	ppmVd	ppmVd	
4-Aug-11	15:43:12	13.45	5.58	3.44	8.94	0.03 R3 A1	
4-Aug-11	15:43:42	13.46	5.58	3.46	8.86	0.04 R3 A1	
4-Aug-11	15:44:12	13.47	5.57	3.47	8.95	0.04 R3 A1	
4-Aug-11	15:44:42	13.47	5.57	3.49	8.85	0.00 R3 A1	
4-Aug-11	15:45:12	13.47	5.57	3.47	8.75	0.00 R3 A1	
Average:	**15:45:36**	**13.46**	**5.57**	**3.27**	**8.60**	**0.03 R3 A1**	
4-Aug-11	15:46:11	13.48	5.56	3.48	8.73	0.00 R3 A2	
4-Aug-11	15:46:41	13.47	5.57	3.48	8.66	0.03 R3 A2	
4-Aug-11	15:47:11	13.42	5.60	3.47	8.15	0.01 R3 A2	
4-Aug-11	15:47:41	13.41	5.61	3.43	7.85	0.03 R3 A2	
4-Aug-11	15:48:11	13.44	5.59	3.44	7.69	0.04 R3 A2	
4-Aug-11	15:48:41	13.43	5.60	3.53	7.32	0.04 R3 A2	
4-Aug-11	15:49:11	13.42	5.61	3.60	6.89	0.05 R3 A2	
4-Aug-11	15:49:41	13.42	5.60	3.68	6.89	0.07 R3 A2	
4-Aug-11	15:50:11	13.42	5.61	3.88	7.50	0.09 R3 A2	
4-Aug-11	15:50:41	13.43	5.60	3.90	8.50	0.09 R3 A2	
4-Aug-11	15:51:11	13.44	5.59	3.96	9.06	0.07 R3 A2	
Average:	**15:56:40**	**13.44**	**5.59**	**3.62**	**7.93**	**0.05 R3 A2**	
4-Aug-11	15:51:41	13.43	5.59	4.03	8.75	0.11 R3 A3	
4-Aug-11	15:52:11	13.41	5.61	4.10	8.07	0.12 R3 A3	
4-Aug-11	15:52:41	13.43	5.60	4.12	7.75	0.11 R3 A3	
4-Aug-11	15:53:11	13.45	5.58	4.18	7.75	0.16 R3 A3	
4-Aug-11	15:53:41	13.42	5.60	4.23	7.67	0.12 R3 A3	
4-Aug-11	15:54:11	13.43	5.60	4.20	7.79	0.13 R3 A3	
4-Aug-11	15:54:41	13.43	5.60	4.20	7.95	0.16 R3 A3	
4-Aug-11	15:55:11	13.41	5.61	4.21	7.95	0.16 R3 A3	
4-Aug-11	15:55:41	13.40	5.62	4.16	7.94	0.19 R3 A3	
4-Aug-11	15:56:11	13.37	5.64	4.06	7.81	0.17 R3 A3	
Average:	**15:56:40**	**13.43**	**5.60**	**3.87**	**7.94**	**0.09 R3 A3**	
4-Aug-11	16:01:45	13.43	5.58	2.74	7.17	0.22 D1	
4-Aug-11	16:02:14	13.42	5.59	3.43	8.38	0.21 D1	
4-Aug-11	16:02:44	13.40	5.61	4.18	8.65	0.23 D1	
4-Aug-11	16:03:14	13.38	5.62	4.42	8.56	0.24 D1	
4-Aug-11	16:03:44	13.39	5.61	4.28	8.55	0.25 D1	
4-Aug-11	16:04:14	13.41	5.60	4.21	8.47	0.23 D1	
4-Aug-11	16:04:45	13.40	5.60	4.16	8.12	0.23 D1	
4-Aug-11	16:05:14	13.40	5.61	4.16	7.86	0.24 D1	
4-Aug-11	16:05:45	13.41	5.60	4.22	8.00	0.25 D1	
4-Aug-11	16:06:14	13.39	5.61	4.31	8.40	0.25 D1	
4-Aug-11	16:06:44	13.38	5.62	4.32	8.71	0.24 D1	
4-Aug-11	16:07:14	13.38	5.63	4.28	8.79	0.27 D1	
Average:	**16:07:19**	**13.40**	**5.61**	**4.06**	**8.31**	**0.24 D1**	
4-Aug-11	16:07:53	13.39	5.61	4.23	8.51	0.28 D2	
4-Aug-11	16:08:23	13.41	5.61	4.24	8.03	0.29 D2	
4-Aug-11	16:08:53	13.39	5.61	4.29	7.65	0.27 D2	
4-Aug-11	16:09:23	13.37	5.63	4.33	7.69	0.27 D2	
4-Aug-11	16:09:54	13.37	5.63	4.34	8.26	0.27 D2	
4-Aug-11	16:10:23	13.38	5.63	4.33	8.88	0.26 D2	
4-Aug-11	16:10:54	13.36	5.63	4.30	9.07	0.27 D2	

Source Testing and Consulting Services, Inc.

Instrumental Reference Method On-Line Data Unit # CT2A

	Parameter	O2	CO2	CO	NOx	THC	Comments
	Units	%V,d	ppmVd	ppmVd	ppmVd	ppmVd	
4-Aug-11	16:11:23	13.36	5.64	4.26	8.70	0.27	D2
Average:	**16:11:52**	**13.38**	**5.62**	**4.29**	**8.35**	**0.27**	**D2**
4-Aug-11	16:12:25	13.40	5.61	4.31	7.89	0.30	D3
4-Aug-11	16:12:55	13.40	5.61	4.43	7.82	0.28	D3
4-Aug-11	16:13:25	13.40	5.61	4.50	8.01	0.28	D3
4-Aug-11	16:13:55	13.41	5.60	4.54	8.53	0.29	D3
4-Aug-11	16:14:25	13.42	5.60	4.61	8.98	0.29	D3
4-Aug-11	16:14:55	13.40	5.61	4.69	8.93	0.31	D3
4-Aug-11	16:15:25	13.36	5.64	4.66	8.43	0.30	D3
Average:	**16:15:43**	**13.40**	**5.61**	**4.54**	**8.37**	**0.29**	**D3**
4-Aug-11	16:18:40	13.38	5.62	3.18	8.32	0.29	C1
4-Aug-11	16:19:09	13.42	5.60	3.29	9.74	0.29	C1
4-Aug-11	16:19:39	13.42	5.59	3.99	10.35	0.29	C1
4-Aug-11	16:20:09	13.41	5.60	4.44	10.04	0.32	C1
4-Aug-11	16:20:39	13.39	5.62	4.43	9.78	0.31	C1
4-Aug-11	16:21:09	13.39	5.61	4.48	9.95	0.30	C1
4-Aug-11	16:21:39	13.40	5.61	4.50	10.42	0.32	C1
4-Aug-11	16:22:12	13.41	5.60	4.47	10.76	0.32	C1
4-Aug-11	16:22:40	13.41	5.60	4.41	10.58	0.34	C1
4-Aug-11	16:23:09	13.40	5.60	4.40	10.16	0.31	C1
4-Aug-11	16:23:39	13.37	5.62	4.41	9.69	0.34	C1
4-Aug-11	16:24:09	13.35	5.64	4.37	9.71	0.33	C1
Average:	**16:24:24**	**13.40**	**5.61**	**4.20**	**9.96**	**0.31**	**C1**
4-Aug-11	16:24:58	13.39	5.62	4.17	10.43	0.33	C2
4-Aug-11	16:25:28	13.37	5.63	4.12	10.39	0.33	C2
4-Aug-11	16:25:58	13.35	5.64	4.04	9.86	-0.33	C2
4-Aug-11	16:26:28	13.35	5.64	4.01	9.40	0.32	C2
4-Aug-11	16:26:59	13.34	5.65	4.04	9.47	-0.34	C2
4-Aug-11	16:27:28	13.34	5.65	4.03	9.82	-0.11	C2
4-Aug-11	16:27:58	13.34	5.64	3.98	10.17	0.16	C2
Average:	**16:28:28**	**13.35**	**5.64**	**4.06**	**9.93**	**0.05**	**C2**
4-Aug-11	16:29:01	13.33	5.66	3.97	10.01	0.18	C3
4-Aug-11	16:29:31	13.34	5.65	4.00	9.91	0.17	C3
4-Aug-11	16:30:02	13.36	5.63	4.06	10.09	0.18	C3
4-Aug-11	16:30:31	13.36	5.63	4.16	10.19	0.14	C3
4-Aug-11	16:31:01	13.32	5.66	4.22	10.26	0.16	C3
4-Aug-11	16:31:31	13.31	5.67	4.19	10.56	0.18	C3
4-Aug-11	16:32:01	13.36	5.63	4.18	11.03	0.18	C3
4-Aug-11	16:32:31	13.35	5.63	4.22	10.88	0.14	C3
Average:	**16:32:36**	**13.34**	**5.64**	**4.13**	**10.37**	**0.17**	**C3**
4-Aug-11	16:34:09	0.05	0.21	4.89	9.79	3.02	THC=3
4-Aug-11	16:34:14	0.05	0.21	5.04	9.74	2.99	THC=3
4-Aug-11	16:34:19	0.05	0.21	6.53	9.68	3.02	THC=3
4-Aug-11	16:34:24	0.05	0.20	8.78	9.64	3.02	THC=3
4-Aug-11	16:34:29	0.05	0.20	8.92	9.58	2.96	THC=3
4-Aug-11	16:34:34	0.05	0.20	9.03	9.54	3.02	THC=3
4-Aug-11	16:34:40	0.05	0.20	9.17	9.54	2.99	THC=3
4-Aug-11	16:34:45	0.05	0.20	9.23	9.54	3.00	THC=3
4-Aug-11	16:34:49	0.05	0.20	9.19	9.46	3.00	THC=3

Source Testing and Consulting Services, Inc.

Instrumental Reference Method On-Line Data Unit # CT2A

	Parameter	O2	CO2	CO	NOx	THC	Comments
	Units	%V,d	ppmVd	ppmVd	ppmVd	ppmVd	
4-Aug-11	16:34:54	0.05	0.20	9.15	9.44	2.97	THC=3
4-Aug-11	16:34:59	0.04	0.20	9.15	9.44	3.00	THC=3
4-Aug-11	16:35:04	0.05	0.20	9.15	9.44	2.99	THC=3
4-Aug-11	16:35:09	0.04	0.19	9.13	9.44	2.98	THC=3
4-Aug-11	16:35:14	0.04	0.19	9.14	9.44	2.99	THC=3
4-Aug-11	16:35:19	0.04	0.19	9.20	9.44	2.94	THC=3
4-Aug-11	16:35:24	0.04	0.19	9.33	9.44	2.97	THC=3
Average:	**16:35:25**	**0.05**	**0.20**	**8.44**	**9.54**	**2.99**	**THC=3**
4-Aug-11	16:35:47	0.04	0.19	9.27	8.98	2.98	Cal:NO=8.8 co=9.1
4-Aug-11	16:35:52	0.04	0.19	9.30	8.60	2.98	Cal:NO=8.8 co=9.1
4-Aug-11	16:35:57	0.04	0.19	9.30	8.54	2.95	Cal:NO=8.8 co=9.1
4-Aug-11	16:36:02	0.04	0.19	9.31	8.54	2.96	Cal:NO=8.8 co=9.1
4-Aug-11	16:36:08	0.04	0.19	9.30	8.54	2.98	Cal:NO=8.8 co=9.1
4-Aug-11	16:36:12	0.04	0.19	9.30	8.54	2.95	Cal:NO=8.8 co=9.1
4-Aug-11	16:36:17	0.04	0.19	9.29	8.50	2.80	Cal:NO=8.8 co=9.1
4-Aug-11	16:36:22	0.04	0.19	9.28	8.94	2.93	Cal:NO=8.8 co=9.1
4-Aug-11	16:36:27	0.04	0.19	9.28	8.94	2.96	Cal:NO=8.8 co=9.1
4-Aug-11	16:36:32	0.04	0.19	9.28	8.94	2.88	Cal:NO=8.8 co=9.1
Average:	**16:36:33**	**0.04**	**0.19**	**9.29**	**8.75**	**2.94**	**Cal:NO=8.8 co=9.1**
Gas Value:	16:36:33	0	8.8	9.1	#N/A	#N/A	NO=8.8 co=9.1
Diff%ofSpan	16:36:33	0.18%	-47.84%	0.21%	#N/A	#N/A	
4-Aug-11	16:40:43	9.01	9.09	0.04	0.02	-0.04	Cal:O2=9 CO2=8.9
4-Aug-11	16:40:48	9.01	9.09	0.04	0.03	-0.04	Cal:O2=9 CO2=8.9
4-Aug-11	16:40:53	9.01	9.08	0.03	0.03	-0.03	Cal:O2=9 CO2=8.9
4-Aug-11	16:40:58	9.01	9.08	0.04	0.03	-0.06	Cal:O2=9 CO2=8.9
4-Aug-11	16:41:03	9.01	9.09	0.04	0.03	0.02	Cal:O2=9 CO2=8.9
4-Aug-11	16:41:08	9.01	9.08	0.04	0.02	-0.02	Cal:O2=9 CO2=8.9
Average:	**16:41:09**	**9.01**	**9.09**	**0.04**	**0.03**	**-0.03**	**Cal:O2=9 CO2=8.9**
Gas Value:	16:41:09	9	8.9	0	#N/A	#N/A	O2=9 CO2=8.9
Diff%ofSpan	16:41:09	0.06%	1.03%	0.04%	#N/A	#N/A	

STACS ISOKINETIC SAMPLING FIELD DATA SHEET

Facility:	EPL	Meter #:	A-8	Baro. Press:	29.74	Page #:	1 of 1		
Unit:	2A	DH@:	1.65	Ambient Temp:	85	Pitot LC:	Cw		
Location:	STACK	DGM Factor:	.9914	Nozzle Dia:	.202, .220				
Test Type:	CEM027	Pitot #:	ED18	Static P:	-.47				
Run #:	1 BASE COMP	Pitot Coef:	.84	Stack Dimensions:	264"				
Condition:	BASE			Stack Height:	~180				
Operator(s):	MAJO / JW	K-Factor:	1.6	Init. Leak Check:	.004 cfm@ 10 "Hg				
Date:	8-4-11	Filter#:	7181	Final Leak Check:	002 cfm@ 6 "Hg				

Traverse Point Number	Time	Gas Meter Reading Vm(ft3)	Velocity Head	Orifice Press.	Stack Temp	Probe Temp	Filter Temp	Impinger Temp	Dry Gas Meter Temp.		Vacuum
									Inlet	Outlet	
	1218	20.094	("H2O)	("H2O)	(F)	(F)	(F)	(F)	(F)	(F)	("Hg)
D 1	1220.5	21.89	.96	1.3	330	245	257	66	94	WS	3
2	1223	23.59	1.0	1.4	332	244	257	65	94		3
3	1225.5	25.45	.96	1.3	333	245	256	62	95		3
4	1228	27.29	.92	1.24	332	245	258	60	95		3
5	1230.5	28.95	.9	1.2	330	245	257	60	96		3
6	1233	30.539	.7	.94	328	246	257	60	97		3
	1235	30.539									
C 1	1237.5	32.34	.92	1.24	316	246	251	60	97		3
2	1240	34.23	.96	1.3	315	245	251	60	98		3
3	1242.5	35.85	.92	1.24	315	246	251	60	97		3
4	1245	37.64	.86	1.2	319	246	251	60	97		3
5	1247.5	39.27	.76	1.0	316	249	252	61	97		3
6	1250	40.796	.74	1.0	317	248	252	61	98		3
	1252	40.796									
B 1	1254.5	42.87	1.2	1.68	323	248	252	60	98		3
2	1257	44.82	1.2	1.68	330	249	252	60	99		3
3	1257.5	46.97	1.4	1.96	330	249	252	60	98		3
4	1302	49.16	1.4	1.96	333	249	252	60	98		3
5	1304.5	51.3	1.4	1.96	333	249	252	60	98		3
6	1307	53.39	1.2	1.68	332	248	253	60	98		3
	1309	53.39									
A 1	1311.5	55.52	1.3	1.8	331	248	254	60	98		4
2	1314	57.6	1.3	1.8	330	247	254	60	99		4
3	1316.5	59.74	1.4	1.96	321	248	253	60	99		4
4	1319	62.07	1.4	1.96	314	247	253	60	100		4
5	1321.5	64.21	1.4	1.96	312	247	253	60	100		4
6	1324	66.440	1.4	1.96	314	246	252	62	100		4
Avg/Tot.											

Impinger	1	2	3	4	5
Final					
Initial					
Total					

ORSAT/CEM	1	2	3	4	
O2					
CO2					

Total Traverse Point %'s

6 Point (4.4) (14.6) (29.6) (70.4) (85.4) (95.6)

12 Point (2.1)(6.7)(11.8)(17.7)(25.0)(35.6)(64.4)(75.0)(82.3)(88.2)(93.3)(97.9)

Note: Nearest upstream disturbance or exit must be 2 duct diameters away and nearest downstream disturbance must be at least 8 diameter away to use 6 points per traverse.

STACS ISOKINETIC SAMPLING FIELD DATA SHEET

Facility:	FPL	Meter #:	A8	Baro. Press:	29.77	Page #:	19		
Unit:	2A	DH@:	1.65	Ambient Temp:	98	Pitot LC:	C		
Location:	STACK	DGM Factor:	.9916	Nozzle Dia:	.217	.27			
Test Type:	CTM029	Pitot #:	D018	Static P:	-.59				
Run #:	#2 OIL BASE	Pitot Coef:	.84	Stack Dimensions:	264"				
Condition:	BASELOAD			Stack Height:	~180'				
Operator(s):	MM (SW)	K-Factor:	1.4	Init. Leak Check:	.002	cfm@	12	"Hg	
Date:	8-4-16	Filter#:	T191	Final Leak Check:	.001	cfm@	6	"Hg	

Traverse Point Number	Time	Gas Meter Reading Vm(ft3)	Velocity Head ("H2O)	Orifice Press. ("H2O)	Stack Temp (F)	Probe Temp (F)	Filter Temp (F)	Impinger Temp (F)	Dry Gas Meter Temp. Inlet (F)	Dry Gas Meter Temp. Outlet (F)	Vacuum ("Hg)
	1347	66.536									
A 1	1346.5	69.74	1.2	1.68	325	242	256	65	102	NA	3
2	1349	70.69	1.3	1.82	324	243	254	64	102		3
3	1351.5	72.77	1.3	1.87	324	244	255	62	102		3
4	1354	74.8	1.4	1.96	324	245	255	62	102		3
5	1356.5	76.84	1.4	1.96	327	246	255	63	107		3
6	1359	78.890	1.4	1.96	326	247	255	63	107		3
	1401	78.890									
B 1	1403.5	81.31	1.2	1.68	326	248	254	63	100		3
2	1406	83.51	1.2	1.68	331	249	254	63	100		3
3	1408.5	85.63	1.3	1.87	333	249	255	63	100		3
4	1411	87.71	1.3	1.87	326	248	255	63	100		3
5	1413.5	89.85	1.4	1.96	324	247	255	62	100		3
6	1416	92.001	1.4	1.96	327	249	254	62	100		3
	1418	92.801									
C 1	1420.5	93.71	.85	1.19	327	247	253	60	101		3
2	1423	95.3	.82	1.14	327	251	254	59	100		3
3	1425.5	97.7	.87	1.2	325	252	255	59	100		3
4	1428	98.93	.82	1.14	324	251	253	59	100		3
5	1430.5	100.6	.78	1.09	329	250	255	59	100		3
6	1433	102.062	.62	.86	326	252	251	60	102		3
	1436	102.062									
D 1	1438.5	103.77	.92	1.28	339	252	250	61	103		3
2	1441	105.56	.98	1.37	340	254	251	62	103		3
3	1443.5	107.42	.98	1.37	343	253	252	62	107		3
4	1446	109.48	.87	1.2	340	254	252	62	103		3
5	1448.5	110.95	.87	1.22	342	252	251	63	105		3
6	1451	112.524	.9	1.12	34	253	252	63	106		3
Avg/Tot.											

Impinger	1	2	3	4	5	Total
Final						
Initial						
Total						

ORSAT/CEM	1	2	3	4
O2				
CO2				

Traverse Point %'s

6 Point (4.4) (14.6) (29.6) (70.4) (85.4) (95.6)

12 Point (2.1)(6.7)(11.8)(17.7)(25.0)(35.6)(64.4)(75.0)(82.3)(88.2)(93.3)(97.9)

Note: Nearest upstream disturbance or exit must be 2 duct diameters away and nearest downstream disturbance must be at least 8 diameter away to use 6 points per traverse.

STACS ISOKINETIC SAMPLING FIELD DATA SHEET

Facility:	FPL	Meter #:	A8	Baro. Press:	29.73	Page #:	1 of 1		
Unit:	2A	DH@:	1.65	Ambient Temp:	94	Pitot LC:			
Location:	STACK	DGM Factor:	.9916	Nozzle Dia:	.24	20.2			
Test Type:	CFTM027	Pitot #:	P018	Static P:	-.39				
Run #:	23	Pitot Coef:	.84	Stack Dimensions:	264"				
Condition:	BASE OIL			Stack Height:	~180'				
Operator(s):	MAD JW	K-Factor:	1.4	Init. Leak Check:	.000	cfm@	4	"Hg	
Date:	8-4-11	Filter#:		Final Leak Check:	.006	cfm@	10	"Hg	

Traverse Point Number	Time	Gas Meter Reading Vm(ft3)	Velocity Head ("H2O)	Orifice Press. ("H2O)	Stack Temp (F)	Probe Temp (F)	Filter Temp (F)	Impinger Temp (F)	Dry Gas Meter Temp. Inlet (F)	Dry Gas Meter Temp. Outlet (F)	Vacuum ("Hg)
	1510	12.634									
D 1	1512.5	14.43	1.0	1.4	328	251	248	63	107	100	4
2	1515	16.24	1.0	1.4	326	250	248	62	107		4
3	1517.5	17.96	.95	1.3	329	251	245	62	106		4
4	1520	19.81	1.0	1.4	324	253	247	60	106		4
5	1522.5	21.52	.92	1.14	328	253	248	59	106		4
6	1525	22.998	~~.80~~ .82	~~1.19~~ 1.14	332	254	250	59	107		4
	1527	22.998	.64	.95							
C 1	1529.5	24.76	.92	1.28	337	252	253	60	103		4
2	1532	26.43	.92	1.28	341	258	252	60	103		4
3	1534.5	28.2	.88	1.23	334	257	257	60	107		4
4	1537	29.9	.8	1.12	338	253	253	62	107		4
5	1539.5	31.42	.65	.91	335	254	254	63	107		4
6	1542	32.875	.65	.91	329	252	253	63	107		4
	1544	32.875									
B 1	1546.5	34.72	1.0	1.4	333	253	251	60	105		4
2	1549	36.65	1.1	1.54	343	253	250	60	105		4
3	1551.5	38.88	1.4	1.96	346	257	250	60	105		4
4	1554	41.0	1.4	1.96	351	252	250	60	105		4
5	1556.5	43.1	1.4	1.96	355	252	252	61	105		4
6	1559	45.284	1.4	1.96	355	251	252	61	105		4
	1603	45.284									
A 1	1605.5	47.16	1.0	1.4	362	252	253	61	104		4
2	1608	49.84	1.3	1.8	366	251	252	61	104		4
3	1610.5	51.62	1.4	1.96	366	253	251	61	104		4
4	1613	53.79	1.4	1.96	368	254	251	62	104		4
5	1615.5	55.95	1.4	1.96	369	253	250	62	104		4
6	1618	57.945	1.4	1.96	368	253	252	62	104		4
Avg/Tot.											

Impinger	1	2	3	4	5
Final					
Initial					
Total					

ORSAT/CEM	1	2	3	4
O2				
CO2				

Total Traverse Point %'s

6 Point (4.4) (14.6) (29.6) (70.4) (85.4) (95.6)

12 Point (2.1)(6.7)(11.8)(17.7)(25.0)(35.6)(64.4)(75.0)(82.3)(88.2)(93.3)(97.9)

Note: Nearest upstream disturbance or exit must be 2 duct diameters away and nearest downstream disturbance must be at least 8 diameter away to use 6 points per traverse.

Visible Emission Observation Form

SOURCE NAME: Unit 2A FP&L West County Partners	OBSERVATION DATE: 6/4/11	START TIME: 1219
ADDRESS: 20505 Southern Blvd		STOP TIME: 1318
CITY: Loxahatchee	STATE: FL	ZIP: 33470
PHONE:	SOURCE ID NUMBER:	
PROCESS EQUIPMENT: Turbine w/ HRSG	OPERATING MODE: Base	
CONTROL EQUIPMENT: SCR	OPERATING MODE:	
DESCRIBE EMISSION POINT: START 150' Round steel stack STOP Same w/ "2A" on it		
HEIGHT ABOVE GROUND LEVEL: START ~150' STOP Same	HEIGHT RELATIVE TO OBSERVER: START ~150' STOP Same	
DISTANCE FROM OBSERVER: START ~600' STOP Same	DIRECTION FROM OBSERVER: START STOP	
DESCRIBE EMISSIONS: START None STOP Same		
EMISSION COLOR: START None STOP Same	PLUME TYPE: CONTINUOUS ☒ FUGITIVE ☐ INTERMITTENT ☐	
WATER DROPLETS PRESENT: NO ☒ YES ☐	IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐	
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Stack exit STOP Same		
DESCRIBE BACKGROUND: START Sky/clouds STOP Same		
BACKGROUND COLOR: START White STOP Same	SKY CONDITIONS: START Cloudy STOP Same	
WIND SPEED: START 5-10 STOP Same	WIND DIRECTION: START W STOP Same	
AMBIENT TEMP: START 94 STOP 94	WET BULB TEMP.	RH, percent

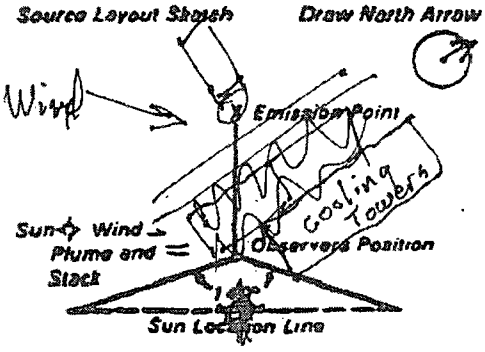
SEC / MIN	0	15	30	45	SEC / MIN	0	15	30	45
1	0	0	0	0	31	0	0	0	0
2	0	0	0	0	32	0	0	0	0
3	0	0	0	0	33	0	0	0	0
4	0	0	0	0	34	0	0	0	0
5	0	0	0	0	35	0	0	0	0
6	0	0	0	0	36	0	0	0	0
7	0	0	0	0	37	0	0	0	0
8	0	0	0	0	38	0	0	0	0
9	0	0	0	0	39	0	0	0	0
10	0	0	0	0	40	0	0	0	0
11	0	0	0	0	41	0	0	0	0
12	0	0	0	0	42	0	0	0	0
13	0	0	0	0	43	0	0	0	0
14	0	0	0	0	44	0	0	0	0
15	0	0	0	0	45	0	0	0	0
16	0	0	0	0	46	0	0	0	0
17	0	0	0	0	47	0	0	0	0
18	0	0	0	0	48	0	0	0	0
19	0	0	0	0	49	0	0	0	0
20	0	0	0	0	50	0	0	0	0
21	0	0	0	0	51	0	0	0	0
22	0	0	0	0	52	0	0	0	0
23	0	0	0	0	53	0	0	0	0
24	0	0	0	0	54	0	0	0	0
25	0	0	0	0	55	0	0	0	0
26	0	0	0	0	56	0	0	0	0
27	0	0	0	0	57	0	0	0	0
28	0	0	0	0	58	0	0	0	0
29	0	0	0	0	59	0	0	0	0
30	0	0	0	0	60	0	0	0	0

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READINGS ABOVE 0 % WERE 0

RANGE OF OPACITY READINGS: 0 MINIMUM 0 MAXIMUM

OBSERVER'S NAME (PRINT): CP Sneeringer



COMMENTS: Unit 2A Oil Fired Concurrent with Run-1

OBSERVER'S SIGNATURE: CP Sneeringer DATE: 8/4/11

ORGANIZATION: STACS

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SIGNATURE
TITLE DATE

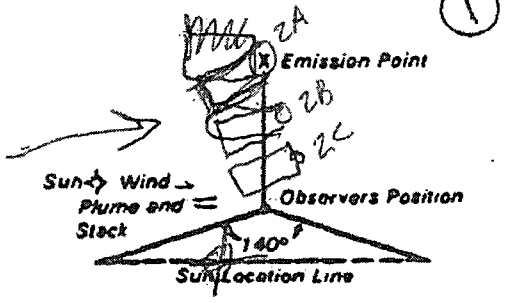
CERTIFIED BY: Aeromet DATE: 8/2/11

VERIFIED BY DATE

Visible Emission Observation Form

SOURCE NAME	FPL West County Partners Unit 2A
ADDRESS	20505 Southern Blvd
CITY	Loxahatchee
STATE	FL
ZIP	33470
PHONE	
SOURCE ID NUMBER	
PROCESS EQUIPMENT	Turbine w/HRSG
OPERATING MODE	Base
CONTROL EQUIPMENT	SCR
OPERATING MODE	
DESCRIBE EMISSION POINT START	Round Stack w/ "2A" on it
DESCRIBE EMISSION POINT STOP	Same
HEIGHT ABOVE GROUND LEVEL START	~150
HEIGHT ABOVE GROUND LEVEL STOP	Same
HEIGHT RELATIVE TO OBSERVER START	~150
HEIGHT RELATIVE TO OBSERVER STOP	Same
DISTANCE FROM OBSERVER START	~1500
DISTANCE FROM OBSERVER STOP	Same
DIRECTION FROM OBSERVER START	30°
DIRECTION FROM OBSERVER STOP	30°
DESCRIBE EMISSIONS START	None
DESCRIBE EMISSIONS STOP	Same
EMISSION COLOR START	None
EMISSION COLOR STOP	Same
PLUME TYPE: CONTINUOUS	☒
FUGITIVE	☐
INTERMITTENT	☐
WATER DROPLETS PRESENT	NO ☒ YES ☐
IF WATER DROPLET PLUME	ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED START	Stack outlet
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED STOP	Same
DESCRIBE BACKGROUND START	Clouds
DESCRIBE BACKGROUND STOP	Same
BACKGROUND COLOR START	White
BACKGROUND COLOR STOP	Same
SKY CONDITIONS START	Cloudy
SKY CONDITIONS STOP	Same
WIND SPEED START	5-10
WIND SPEED STOP	Same
WIND DIRECTION START	West
WIND DIRECTION STOP	WNW
AMBIENT TEMP START	94
AMBIENT TEMP STOP	94
WET BULB TEMP.	
RH, percent	

Source Layout Sketch — Draw North Arrow



SEC / MIN	0	15	30	45	SEC / MIN	0	15	30	45
1	0	0	0	0	31	0	0	0	0
2	0	0	0	0	32	0	0	0	0
3	0	0	0	0	33	0	0	0	0
4	0	0	0	0	34	0	0	0	0
5	0	0	0	0	35	0	0	0	0
6	0	0	0	0	36	0	0	0	0
7	0	0	0	0	37	0	0	0	0
8	0	0	0	0	38	0	0	0	0
9	0	0	0	0	39	0	0	0	0
10	0	0	0	0	40	0	0	0	0
11	0	0	0	0	41	0	0	0	0
12	0	0	0	0	42	0	0	0	0
13	0	0	0	0	43	0	0	0	0
14	0	0	0	0	44	0	0	0	0
15	0	0	0	0	45	0	0	0	0
16	0	0	0	0	46	0	0	0	0
17	0	0	0	0	47	0	0	0	0
18	0	0	0	0	48	0	0	0	0
19	0	0	0	0	49	0	0	0	0
20	0	0	0	0	50	0	0	0	0
21	0	0	0	0	51	0	0	0	0
22	0	0	0	0	52	0	0	0	0
23	0	0	0	0	53	0	0	0	0
24	0	0	0	0	54	0	0	0	0
25	0	0	0	0	55	0	0	0	0
26	0	0	0	0	56	0	0	0	0
27	0	0	0	0	57	0	0	0	0
28	0	0	0	0	58	0	0	0	0
29	0	0	0	0	59	0	0	0	0
30	0	0	0	0	60	0	0	0	0

OBSERVATION DATE	8/9/11
START TIME	1344
STOP TIME	1444
AVERAGE OPACITY FOR HIGHEST PERIOD	0
NUMBER OF READINGS ABOVE % WERE	0 / 0
RANGE OF OPACITY READINGS MINIMUM	0
RANGE OF OPACITY READINGS MAXIMUM	0
OBSERVER'S NAME (PRINT)	CP Sweeringen
OBSERVER'S SIGNATURE	CP Sweeringen
DATE	8/4/11
ORGANIZATION	STACS
CERTIFIED BY	Aeromet
DATE	8/2/11
VERIFIED BY	
DATE	
COMMENTS	R-2
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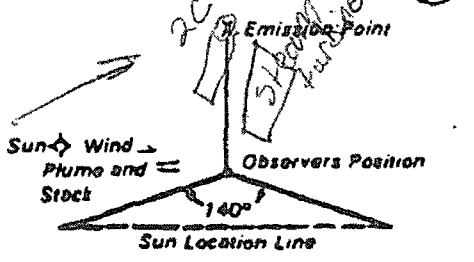
TITLE	
DATE	

Visible Emission Observation Form

SOURCE NAME: FPL West Co. Partners Unit 2A	OBSERVATION DATE: 8/4/11
ADDRESS: 20505 Southern Blvd	START TIME: 1510
CITY: Loxahatchee STATE: FL ZIP: 33470	STOP TIME: 1610
PHONE:	SOURCE ID NUMBER:
PROCESS EQUIPMENT: Turbine w/ HRSG	OPERATING MODE: Base
CONTROL EQUIPMENT: SCR	OPERATING MODE:
DESCRIBE EMISSION POINT START: Round Stack STOP: Same	
HEIGHT ABOVE GROUND LEVEL START: 150 STOP: 150	HEIGHT RELATIVE TO OBSERVER START: 150 STOP: 150
DISTANCE FROM OBSERVER START: ~600 STOP: ~600	DIRECTION FROM OBSERVER START: 90° STOP: 90°
DESCRIBE EMISSIONS START: None STOP: None	
EMISSION COLOR START: NA STOP: NA	PLUME TYPE: CONTINUOUS ☒ FUGITIVE ☐ INTERMITTENT ☐
WATER DROPLETS PRESENT: NO ☒ YES ☐	IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED START: Stack exit STOP: Same	
DESCRIBE BACKGROUND START: Clouds STOP: Same	
BACKGROUND COLOR START: Grey STOP: Same	SKY CONDITIONS START: 0. Cast STOP: Same
WIND SPEED START: 10-15 STOP: Same	WIND DIRECTION START: WNW STOP: Same
AMBIENT TEMP. START: 92 STOP:	WET BULB TEMP.: RH, percent:

Source Layout Sketch — Draw North Arrow



SEC / MIN	0	15	30	45	SEC / MIN	0	15	30	45
1	0	0	0	0	31	0	0	0	0
2	0	0	0	0	32	0	0	0	0
3	0	0	0	0	33	0	0	0	0
4	0	0	0	0	34	0	0	0	0
5	0	0	0	0	35	0	0	0	0
6	0	0	0	0	36	0	0	0	0
7	0	0	0	0	37	0	0	0	0
8	0	0	0	0	38	0	0	0	0
9	0	0	0	0	39	0	0	0	0
10	0	0	0	0	40	0	0	0	0
11	0	0	0	0	41	0	0	0	0
12	0	0	0	0	42	0	0	0	0
13	0	0	0	0	43	0	0	0	0
14	0	0	0	0	44	0	0	0	0
15	0	0	0	0	45	0	0	0	0
16	0	0	0	0	46	0	0	0	0
17	0	0	0	0	47	0	0	0	0
18	0	0	0	0	48	0	0	0	0
19	0	0	0	0	49	0	0	0	0
20	0	0	0	0	50	0	0	0	0
21	0	0	0	0	51	0	0	0	0
22	0	0	0	0	52	0	0	0	0
23	0	0	0	0	53	0	0	0	0
24	0	0	0	0	54	0	0	0	0
25	0	0	0	0	55	0	0	0	0
26	0	0	0	0	56	0	0	0	0
27	0	0	0	0	57	0	0	0	0
28	0	0	0	0	58	0	0	0	0
29	0	0	0	0	59	0	0	0	0
30	0	0	0	0	60	0	0	0	0

AVERAGE OPACITY FOR HIGHEST PERIOD: 0	NUMBER OF READINGS ABOVE 0 % WERE 0
RANGE OF OPACITY READINGS MINIMUM: 0	MAXIMUM: 0
OBSERVER'S NAME (PRINT): CP Sweringer	
OBSERVER'S SIGNATURE: CP Sweringer	DATE: 8/4/11
ORGANIZATION: STACS	
CERTIFIED BY: Aeromet	DATE: 8/2/11
VERIFIED BY:	DATE:

COMMENTS: R-3

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TITLE: DATE:

APPENDIX C

CALIBRATION AND CERTIFICATION DATA

Source Testing and Consulting Services, Inc. **NOx Converter Efficiency**

Instrumental Reference Method On-Line Data Unit # CT2A

	Parameter	O2	CO2	CO	NOx	THC	Comments
	Units	%V,d	ppmVd	ppmVd	ppmVd	ppmVd	
3-Aug-11	15:18:28	20.79	0.18	0.74	35.76	-4.58	NOx CONVEFF
3-Aug-11	15:18:58	20.79	0.18	0.74	35.64	-4.58	NOx CONVEFF
3-Aug-11	15:19:28	20.79	0.18	0.74	35.30	-4.58	NOx CONVEFF
3-Aug-11	15:19:58	20.79	0.18	0.74	35.36	-4.58	NOx CONVEFF
3-Aug-11	15:20:28	20.79	0.18	0.74	35.39	-4.58	NOx CONVEFF
3-Aug-11	15:20:58	20.79	0.18	0.74	35.68	-4.57	NOx CONVEFF
3-Aug-11	15:21:28	20.79	0.18	0.74	35.85	-4.58	NOx CONVEFF
3-Aug-11	15:21:58	20.79	0.18	0.72	35.56	-4.58	NOx CONVEFF
3-Aug-11	15:22:28	20.79	0.18	0.71	35.66	-4.57	NOx CONVEFF
3-Aug-11	15:22:58	20.79	0.18	0.71	35.51	-4.57	NOx CONVEFF
3-Aug-11	15:23:29	20.79	0.18	0.71	35.36	-4.57	NOx CONVEFF
3-Aug-11	15:23:58	20.79	0.18	0.71	35.84	-4.57	NOx CONVEFF
3-Aug-11	15:24:28	20.79	0.18	0.71	35.94	-4.57	NOx CONVEFF
3-Aug-11	15:24:58	20.78	0.18	0.71	35.60	-4.57	NOx CONVEFF
3-Aug-11	15:25:29	20.78	0.19	0.71	35.37	-4.57	NOx CONVEFF
3-Aug-11	15:25:58	20.78	0.18	0.70	35.52	-4.57	NOx CONVEFF
3-Aug-11	15:26:28	20.78	0.19	0.70	35.54	-4.57	NOx CONVEFF
3-Aug-11	15:26:58	20.78	0.19	0.72	35.36	-4.58	NOx CONVEFF
3-Aug-11	15:27:29	20.78	0.19	0.73	35.77	-4.57	NOx CONVEFF
3-Aug-11	15:27:58	20.78	0.19	0.73	35.40	-4.57	NOx CONVEFF
3-Aug-11	15:28:28	20.78	0.19	0.73	35.78	-4.58	NOx CONVEFF
3-Aug-11	15:28:58	20.78	0.19	0.73	35.94	-4.57	NOx CONVEFF
3-Aug-11	15:29:28	20.78	0.19	0.73	35.50	-4.57	NOx CONVEFF
3-Aug-11	15:29:58	20.78	0.20	0.74	35.35	-4.57	NOx CONVEFF
3-Aug-11	15:30:28	20.78	0.20	0.73	35.51	-4.57	NOx CONVEFF
3-Aug-11	15:30:58	20.78	0.20	0.74	35.58	-4.57	NOx CONVEFF
3-Aug-11	15:31:28	20.78	0.20	0.76	35.51	-4.57	NOx CONVEFF
3-Aug-11	15:31:58	20.78	0.20	0.76	35.54	-4.57	NOx CONVEFF
3-Aug-11	15:32:28	20.78	0.20	0.73	35.50	-4.57	NOx CONVEFF
3-Aug-11	15:32:58	20.78	0.20	0.73	35.51	-4.57	NOx CONVEFF
3-Aug-11	15:33:28	20.78	0.20	0.73	35.61	-4.57	NOx CONVEFF
3-Aug-11	15:33:58	20.78	0.20	0.73	35.94	-4.57	NOx CONVEFF
3-Aug-11	15:34:28	20.78	0.21	0.73	35.72	-4.57	NOx CONVEFF
3-Aug-11	15:34:58	20.78	0.21	0.73	35.36	-4.57	NOx CONVEFF
3-Aug-11	15:35:28	20.78	0.21	0.73	35.61	-4.57	NOx CONVEFF
3-Aug-11	15:35:58	20.78	0.21	0.73	35.36	-4.57	NOx CONVEFF
3-Aug-11	15:36:28	20.78	0.21	0.74	35.44	-4.58	NOx CONVEFF
3-Aug-11	15:36:58	20.78	0.21	0.75	35.35	-4.57	NOx CONVEFF
3-Aug-11	15:37:28	20.77	0.22	0.73	35.58	-4.58	NOx CONVEFF
3-Aug-11	15:37:58	20.78	0.21	0.76	35.52	-4.58	NOx CONVEFF

Source Testing and Consulting Services, Inc. **NOx Converter Efficiency**

Instrumental Reference Method On-Line Data Unit # CT2A

	Parameter	O2	CO2	CO	NOx	THC	Comments
	Units	%V,d	ppmVd	ppmVd	ppmVd	ppmVd	
3-Aug-11	15:38:28	20.78	0.21	0.76	35.94	-4.58	NOx CONVEFF
3-Aug-11	15:38:58	20.77	0.22	0.76	35.54	-4.58	NOx CONVEFF
3-Aug-11	15:39:28	20.77	0.21	0.76	35.90	-4.58	NOx CONVEFF
3-Aug-11	15:39:58	20.77	0.22	0.75	35.61	-4.58	NOx CONVEFF
3-Aug-11	15:40:28	20.77	0.22	0.76	35.30	-4.57	NOx CONVEFF
3-Aug-11	15:40:58	20.77	0.22	0.76	35.35	-4.57	NOx CONVEFF
3-Aug-11	15:41:28	20.77	0.22	0.76	35.68	-4.57	NOx CONVEFF
3-Aug-11	15:41:58	20.77	0.22	0.76	35.74	-4.58	NOx CONVEFF
3-Aug-11	15:42:28	20.77	0.22	0.76	35.35	-4.58	NOx CONVEFF
3-Aug-11	15:42:58	20.77	0.22	0.76	35.41	-4.58	NOx CONVEFF
3-Aug-11	15:43:28	20.77	0.22	0.76	35.91	-4.57	NOx CONVEFF
3-Aug-11	15:43:59	20.77	0.22	0.76	35.36	-4.58	NOx CONVEFF
3-Aug-11	15:44:28	20.77	0.23	0.76	35.52	-4.58	NOx CONVEFF
3-Aug-11	15:44:58	20.77	0.23	0.77	35.54	-4.58	NOx CONVEFF
3-Aug-11	15:45:28	20.77	0.23	0.74	35.55	-4.58	NOx CONVEFF
3-Aug-11	15:45:59	20.77	0.23	0.74	35.64	-4.58	NOx CONVEFF
3-Aug-11	15:46:28	20.77	0.23	0.74	35.41	-4.58	NOx CONVEFF
3-Aug-11	15:46:58	20.77	0.23	0.74	35.57	-4.58	NOx CONVEFF
3-Aug-11	15:47:28	20.77	0.23	0.74	35.35	-4.58	NOx CONVEFF
3-Aug-11	15:47:59	20.77	0.23	0.77	35.78	-4.57	NOx CONVEFF
Average:		**20.78**	**0.20**	**0.74**	**35.57**	**-4.57**	**NOx CONVEFF**
				Maximum	35.94		
				Final	35.78		
				% Drop	0.45%		

Site: Loxahatchee
Unit: CT-2A Base Oil
Reference Method Calibration Error - Initial Linearity
Date: 8/4/2011

Linearity (Calibration Error)		Analyzer Range	Expected Value	Analyzer Response	Difference	Difference % of Range	Allowable Difference
O2, vol % dry	Zero	21.98	0.00	0.04	0.04	0.18%	+/- 2%
	Mid	21.98	9.00	9.00	0.00	0.00%	+/- 2%
	Span	21.98	21.98	21.96	-0.02	-0.09%	+/- 2%
CO2, vol % dry	Zero	18.95	0.00	0.15	0.15	0.79%	+/- 2%
	Mid	18.95	8.90	9.10	0.20	1.06%	+/- 2%
	Span	18.95	18.95	19.00	0.05	0.26%	+/- 2%
NOx, ppmv	Zero	22.05	0.00	-0.02	-0.02	-0.09%	+/- 2%
	Mid	22.05	8.80	8.80	0.00	0.00%	+/- 2%
	Span	22.05	22.05	22.10	0.05	0.23%	+/- 2%
CO, ppmv	Zero	21.94	0.00	0.00	0.00	0.00%	+/- 2%
	Mid	21.94	9.06	9.10	0.04	0.18%	+/- 2%
	Span	21.94	21.94	21.80	-0.14	-0.64%	+/- 2%
THC, ppmv	Zero	8.6	0.00	-0.08	-0.08	-0.93%	+/- 2%
	Mid	8.6	3.00	2.94	-0.06	-0.70%	+/- 2%
	Mid	8.6	5.95	5.91	-0.04	-0.47%	+/- 2%
	Span	8.6	8.60	8.57	-0.03	-0.35%	+/- 2%

Airgas

Airgas Specialty Gases
630 United Drive
Durham, NC 27713
Phone (919) 544-3773
Fax (919) 544-3774
www.airgas.com

CERTIFICATE OF ANALYSIS
Grade of Product: EPA Protocol

Part Number:	E03NI99E15A00R3	Reference Number:	122-124228673-10
Cylinder Number:	CC337342	Cylinder Volume:	144 Cu.Ft.
Laboratory:	ASG - Durham - NC	Cylinder Pressure:	2015 PSIG
Analysis Date:	Aug 12, 2010	Valve Outlet:	660

Expiration Date: Aug 12, 2012

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.i.e. 1 Mega Pascal

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
NOx	18.00 PPM	18.02 PPM	G1	+/- 1% NIST Traceable
CARBON MONOXIDE	18.00 PPM	17.94 PPM	G1	+/- 1% NIST Traceable
NITRIC OXIDE	18.00 PPM	18.01 PPM	G1	+/- 1% NIST Traceable
NITROGEN	Balance			

CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM	100603	CC281051	20.34PPM NITRIC OXIDE/NITROGEN	Feb 01, 2013
NTRM	100603	CC281051 NOX	20.34PPM NOx/NITROGEN	Feb 01, 2013
NTRM	990612	XC018208B	24.33PPM CARBON MONOXIDE/NITROGEN	Jul 01, 2011
NTRM	080602	CC255843	51.26PPM CARBON MONOXIDE/NITROGEN	Jan 15, 2012

ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
Nicolet 6700 #2 CO	FTIR	Aug 06, 2010
TECO 42C NOX (0.05-100ppm)	Chemiluminescence	Jul 28, 2010
TECO 42C NOX (0.05-100ppm)	Chemiluminescence	Jul 28, 2010

Triad Data Available Upon Request

Notes: ANW Part # 781998

Amber Mann

Approved for Release

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Certificate of Analysis - EPA Protocol Mixtures

1650 Enterprise Parkway
Twinsburg, Ohio 44087
215-648-4000

Customer: GE ENERGY
Cylinder Number: SX-29107
Cylinder pressure: 1900 psig
Last Analysis date: 2/18/2010
Expiration Date: 2/18/2012

Protocol:	Reference #	Lot #
G1		109-96-17136

DO NOT USE THIS CYLINDER WHEN THE PRESSURE FALLS BELOW 150 PSIG

REPLICATE RESPONSES

Component:	Certified Conc:	Date: 2/11/2010	Date: 2/18/2010
Nitric Oxide	48.4 ppm ± 1% REL	48.4 ppm	48.1 ppm
		48.9 ppm	48.2 ppm
		48.3 ppm	48.7 ppm
Carbon Monoxide	49.2 ppm ± 1% REL	49.1 ppm	49.2 ppm
		49.5 ppm	49.3 ppm
		49.1 ppm	49.4 ppm

Impurity: Nitrogen Dioxide
Concentration: < 0.2 ppm

BALANCE GAS: Nitrogen

REFERENCE STANDARDS

Component:	Nitric Oxide	Carbon Monoxide
SRM #:	NTRM-081501	NTRM-81678
Sample #:	08150102	00110109
Cylinder #:	SX-45057	SX-12603
Concentration:	47.78 ppm	51.4ppm

CERTIFICATION INSTRUMENTS

Component:	Nitric Oxide	Carbon Monoxide
Make/Model:	Nicolet 550	Nicolet 550
Serial Number:	ACN-9402192	ACN-9402192
Measurement Principle:	FTIR	FTIR
Last Calibration:	2/7/2010	2/9/2010

Notes: T132297

This certification was performed according to EPA Traceability Protocol for Assay & Certification of Gaseous Calibration Standards September 1997, using procedure G1 and/or G2.

Analyst Judith M Zadnik Date 2/19/2010

Airgas

CERTIFICATE OF ANALYSIS
Grade of Product: EPA Protocol

Airgas Specialty Gases
6301 United Drive
Durham, NC 27713
Phone (919) 544-3773
Fax (919) 544-3774
www.airgas.com

Part Number:	E03NI99E15A0260	Reference Number:	122-124236772-10
Cylinder Number:	CC59873	Cylinder Volume:	144 Cu.Ft.
Laboratory:	ASG - Durham - NC	Cylinder Pressure:	2015 PSIG
Analysis Date:	Oct 11, 2010	Valve Outlet:	660

Expiration Date: Oct 11, 2012

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.i.e. 1 Mega Pascal

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
CARBON MONOXIDE	90.00 PPM	89.95 PPM	G1	+/- 1% NIST Traceable
NITRIC OXIDE	90.00 PPM	90.51 PPM	G1	+/- 1% NIST Traceable
NITROGEN	Balance			
Total oxides of nitrogen		90.86 PPM		For Reference Only

CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM	01520401	CC179908	99.49PPM CARBON MONOXIDE/NITROGEN	Feb 02, 2013
NTRM	090609	CC268509	95.66PPM NITRIC OXIDE/NITROGEN	Mar 15, 2011

ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
Nicolet 6700 #2 CO	FTIR	Sep 16, 2010
Nicolet 6700 #2 NO	FTIR	Sep 16, 2010

Triad Data Available Upon Request

Notes:ANWPN 782011

Approved for Release

#5000

Airgas Specialty Gases
[illegible] Loden Drive
[illegible] NC 27713
Phone (919) 544-3773
[illegible] (919) 544-3774
www.airgas.com

CERTIFICATE OF ANALYSIS
Grade of Product: EPA Protocol

Part Number:	E02AI99E15A3395	Reference Number:	122-124236772-4
Cylinder Number:	CC146462	Cylinder Volume:	146 Cu.Ft.
Laboratory:	ASG - Durham - NC	Cylinder Pressure:	2015 PSIG
Analysis Date:	Oct 07, 2010	Valve Outlet:	590

Expiration Date: Oct 07, 2013

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 i.e. 1 Mega Pascal

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
METHANE	9.000 PPM	8.603 PPM	G1	+/- 1% NIST Traceable
Air	Balance			

CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM	070604	CC207894	4.495PPM METHANE/AIR	Jun 01, 2011

ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
Nicolet 6700 #2 CH4	FTIR	Oct 07, 2010

Triad Data Available Upon Request

Notes:ANWPN 715538

Approved for Release

#5000

Airgas

Airgas Specialty Gases
639 United Drive
Durham, NC 27713
Phone (919) 544-3773
Fax (919) 544-3774
www.airgas.com

CERTIFICATE OF ANALYSIS
Grade of Product: EPA Protocol

Part Number:	E03NI58E15A39E9	Reference Number:	122-124223759-1
Cylinder Number:	CC253913	Cylinder Volume:	159 Cu.Ft.
Laboratory:	ASG - Durham - NC	Cylinder Pressure:	2015 PSIG
Analysis Date:	Jun 23, 2010	Valve Outlet:	590

Expiration Date: Jun 23, 2013

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.i.e. 1 Mega Pascal

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
CARBON DIOXIDE	19.25 %	19.63 %	G1	+/- 1% NIST Traceable
OXYGEN	22.00 %	22.06 %	G1	+/- 1% NIST Traceable
NITROGEN	Balance			

CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM	060608	CC206165	22.51% OXYGEN/NITROGEN	May 01, 2016
NTRM	080613	CC254469	20.09% CARBON DIOXIDE/NITROGEN	Jul 15, 2012

ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
Horiba VIA-510 CO2	Infrared	Jun 21, 2010
Horiba MPA-510 O2 (0-25%)	Paramagnetic	Jun 21, 2010

Triad Data Available Upon Request

Notes: ANW Part # 781222

Approved for Release

#5000

22

PRAXAIR

Praxair
5700 South Alameda Street
Los Angeles, CA 90058
Telephone: (323) 585-2154
Facsimile: (714) 542-6689

DocNumber: 000003868

CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

Customer & Order Information:

PRAXAIR WHSE SANFORD NC ST
1510 HAWKINS AVE
SANFORD NC 273300

Praxair Order Number: 11770929
Customer P. O. Number: 02659336
Customer Reference Number:

Fill Date: 12/1/2009
Part Number: EV AIME3ME-AS
Lot Number: 109933502
Cylinder Style & Outlet: AS CGA 580
Cylinder Pressure & Volume: 2000 psig 140 cu.ft.

Certified Concentration:

Expiration Date:	**12/5/2012**	NIST Traceable
Cylinder Number:	**CC 303603**	Analytical Uncertainty:
3.00 ppm	**METHANE**	± 1 %
Balance	**AIR**	

Certifcation Information: *Certification Date:* 12/5/2009 *Term:* 36 Months *Expiration Date:* 12/5/2012

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: **METHANE**

Requested Concentration: 3 ppm
Certified Concentration: 3.00 ppm
Instrument Used: HORIBA, FIA-510, 851135122
Analytical Method: Flame Ionization Detector
Last Multipoint Calibration: 11/12/2009

First Analysis Data:						Date:	12/5/2009
Z:	0	R:	5.02	C:	3	Conc:	3
R:	5.02	Z:	0	C:	3	Conc:	3
Z:	0	C:	3	R:	5.02	Conc:	3
UOM:	ppm			Mean Test Assay:			3 ppm

Reference Standard Type: GMIS
Ref. Std. Cylinder # : SA 5891
Ref. Std. Conc: 5.023 ppm
Ref. Std. Traceable to SRM # : vs. 1659a
SRM Sample # : 11-G-42
SRM Cylinder # : FF28579

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: Shameela Jiffrey
Shameela Jiffrey

Certified by: Nelson Ma
Nelson Ma

PRAXAIR

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

DocNumber: 000007975

CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

Customer & Order Information:

CHEROKEE INSTRUMENTS INC *
901 BRIDGE ST
FUQUAY VARINA NC 275260

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

Fill Date: 12/9/2010
Part Number: NI CD9O5E-AS
Lot Number: 917034368
Cylinder Style & Outlet: AS CGA 590
Cylinder Pressure & Volume: 2000 psig 140 cu ft

Certified Concentration:

Expiration Date:	12/16/2013	NIST Traceable
Cylinder Number:	CC123685	Analytical Uncertainty:
9.18 %	CARBON DIOXIDE	± 1 %
9.03 %	OXYGEN	± 1 %
Balance	NITROGEN	

Certification Information: *Certification Date:* 12/16/2010 *Term:* 36 Months *Expiration Date:* 12/16/2013

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)*

1. Component: CARBON DIOXIDE

Requested Concentration: 9 %
Certified Concentration: 9.18 %
Instrument Used: SIEMENS ULTRAMAT 5E SN. D2-412
Analytical Method: NON-DISPERSIVE INFRARED
Last Multipoint Calibration: 12/2/2010

First Analysis Data:					Date: 12/16/2010
Z: 0	R: 11.84	C: 9.18	Conc:	9.18	
R: 11.84	Z: 0	C: 9.18	Conc:	9.18	
Z: 0	C: 9.18	R: 11.84	Conc:	9.18	
UOM: %		Mean Test Assay:		9.18 %	

Reference Standard Type: GMIS
Ref. Std. Cylinder # : CC247549
Ref. Std. Conc: 11.84 %
Ref. Std. Traceable to SRM # : 2745
SRM Sample # : 9-C-04
SRM Cylinder # : CAL016031

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: %		Mean Test Assay:		0 %	

2. Component: OXYGEN

Requested Concentration: 9 %
Certified Concentration: 9.03 %
Instrument Used: SIEMENS OXYMAT 5E S/N F1-111
Analytical Method: PARAMAGNETIC
Last Multipoint Calibration: 12/9/2010

First Analysis Data:					Date: 12/15/2010
Z: 0	R: 11.04	C: 9.02	Conc:	9.028	
R: 11.04	Z: 0	C: 9.02	Conc:	9.028	
Z: 0	C: 9.02	R: 11.04	Conc:	9.028	
UOM: %		Mean Test Assay:		9.028 %	

Reference Standard Type: GMIS
Ref. Std. Cylinder # : CC148024
Ref. Std. Conc: 11.05 %
Ref. Std. Traceable to SRM # : 2659a
SRM Sample # : 71-D-07
SRM Cylinder # : CAL015449

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: %		Mean Test Assay:		0 %	

Analyzed by: Ashley Davila
Ashley Davila

Certified by: 12/12/10
Michelle Kostik

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CERTIFICATE OF ANALYSIS - EPA PROTOCOL MIXTURE

1650 ENTERPRISE PKWY
TWINSBURG, OHIO 44087
215-648-4000

Customer: GE ENERGY
Cylinder Number: SX-43913
Cylinder pressure: 2000 psig
Last Analysis date: 8/22/2009
Expiration Date: 8/22/2011

Protocol:	Reference #	Lot #
G1		109-96-13882

DO NOT USE THIS CYLINDER WHEN THE PRESSURE FALLS BELOW 150 PSIG

REPLICATE RESPONSES

		Date: 8/9/2009	Date: 8/22/2009
Component :	Nitric Oxide	44.7 ppm	45.0 ppm
Certified Conc:	44.8 ppm ± 1% REL	44.6 ppm	44.6 ppm
		44.7 ppm	44.9 ppm

		Date: 8/9/2009	Date: 8/22/2009
Component:	Carbon Monoxide	44.7 ppm	45.1 ppm
Certified Conc:	45.0 ppm ± 1% REL	44.9 ppm	44.9 ppm
		45.0 ppm	45.3 ppm

Impurity: Nitrogen Dioxide
Concentration: < 0.2 ppm

BALANCE GAS: Nitrogen

REFERENCE STANDARDS

Component:	Nitric Oxide	Carbon Monoxide
SRM #:	SRM-1683b	NTRM-81678
Sample #:	45-U-12	00110109
Cylinder #:	CAL-015554	SX-12603
Concentration:	48.52 PPM	51.4ppm

CERTIFICATION INSTRUMENTS

Component:	Nitric Oxide	Carbon Monoxide
Make/Model:	Nicolet 550	Nicolet 550
Serial Number:	ACN-9402192	ACN-9402192
Measurement Principle:	FTIR	FTIR
Last Calibration:	8/7/2009	8/9/2009

Notes: T122866

This certification was performed according to EPA Traceability Protocol for Assay & Certification of Gaseous Calibration Standards September 1997, using procedure G1 and/or G2.

Analyst SIGNATURE ON FILE Date 8/25/2009

MATHESON
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3106 Pasadena Freeway
Pasadena, TX 77503
713-534-8217

Certificate of Analysis - EPA Protocol Mixtures

Customer: SOURCE TESTING AND CONSULTING
208-114 TECHNOLOGY PARK LN.
FUQUAY VARINA, NC 27526

		Protocol:	Reference #:	Lot#:
Cylinder Number:	SX53567	G1	555179-1	1741600185
Cylinder Pressure:	1800 psig			
Last Analysis Date:	03/07/2011			
Expiration Date:	03/07/2013			

DO NOT USE THIS CYLINDER WHEN THE PRESSURE FALLS BELOW 150 PSIG

REPLICATE RESPONSES

		Date:	02/18/2011	Date:	02/25/2011
Component:	Carbon Monoxide		9.127		9.073
Certified Conc:	9.09 ppm +/- 1% rel		9.101		9.053
			9.103		9.048
Component:	Nitric Oxide	Date:	02/25/2011	Date:	03/07/2011
Certified Conc:	8.82 ppm +/- 1% rel		8.801		8.823
			8.799		8.836
			8.839		8.824

NOx: 9.1 ppm Reference Only:

BALANCE GAS: Nitrogen

REFERENCE STANDARDS:

Component:	Carbon Monoxide	Component:	Nitric Oxide
Reference Standard:	SRM	Reference Standard:	SRM
Cylinder #:	CAL0172779	Cylinder #:	ANB10861
Concentration:	9.86 ppm	Concentration:	9.61 ppm
Exp. Date:	01/08/2012	Exp. Date:	11/02/2011

CERTIFICATION INSTRUMENTS

Component:	Carbon Monoxide	Component:	Nitric Oxide
Make/Model:	Thermo 48i	Make/Model:	Horiba CLA-510
Serial Number:	903034427	Serial Number:	4LKB3FHH
Measurement Principle:	NDIR	Measurement Principle:	CHEMI
Last Calibration:	02/17/2011	Last Calibration:	02/18/2011

Notes:

This Certification was performed according to EPA Traceability Protocol for Assay & Certification of Gaseous Calibration Standards September 1997, using procedure G1 and/or G2.

Analyst: Debra Jackson

Date: 03/04/2011

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Certificate of Analysis - EPA Protocol Mixtures

Matheson Tri-Gas Inc.
6874 S. Main Street
Morrow, GA 30260
Phone: 770-961-7891
Fax: 770-968-1268

Customer: Source Testing and Consulting Services
Cylinder Number: SX43063
Cylinder pressure: 2000 PSIG
Last Analysis date: 2/21/2011
Expiration Date: 2/21/14

Protocol:	Reference #	Lot #
G1	555179	1051618501

DO NOT USE THIS CYLINDER WHEN THE PRESSURE FALLS BELOW 150 PSIG

Component : Methane
Mean Conc: 6.0 ppm

REPLICATE RESPONSES

Date:	2/21/2011	Date:
	6.0 ppm	
	6.0 ppm	
	6.0 ppm	

BALANCE GAS: Air

REFERENCE STANDARDS
Component: Methane
SRM #: SRM-1659a
Cylinder #: FF28644
Concentration: 9.863 ppm

CERTIFICATION INSTRUMENTS
Component: Methane
Make/Model: Agilent 7890A
Serial Number: CN10919053
Measurement Principle: FID
Last Calibration: 2/8/2011

Notes:

This certification was performed according to EPA Traceability Protocol for Assay & Certification of Gaseous Calibration Standards September 1997, using procedure G1 and/or G2.

Analyst Derek Stuck Date 2/21/2011

Source Testing And Consulting Services
Meter Box Calibration

Calibration Date: 12/7/2010
Meter Box: A-8
Technician: MLH

Orifice ID	Y Calibration	Delta H @ Cal.	Vac
40	pass	pass	pass
48	pass	pass	pass
55	pass	pass	pass
63	pass	pass	pass
73	pass	pass	pass

PART 1: Orifice Calibration

Calibration Orifice Set: D1 Critical Vacuum: 13.9
Barometric Pressure (in. Hg): 29.640

Collected Data

Orifice ID	Run #	Delta H	Initial Meter Volume (cu ft)	Final Meter Volume (cu ft)	Init Meter Temp (F)	Final Meter Temp (F)	Init Amb Temp (F)	Final Amb Temp (F)	Run Time min|sec		K Factor	Vac
40	1	0.30	840.334	845.349	50.00	54.00	60.00	60.00	16	22	0.2396	21
40	2	0.30	845.349	850.363	54.00	58.00	60.00	60.00	16	15	0.2396	21
48	1	0.65	850.476	855.539	58.00	60.00	60.00	60.00	11	12	0.3486	19
48	2	0.65	855.539	861.058	60.00	61.00	60.00	60.00	12	11	0.3486	19
55	1	0.97	861.249	866.400	62.00	63.00	60.00	60.00	8	36	0.4591	18
55	2	0.97	866.400	871.448	63.00	64.00	60.00	60.00	8	24	0.4591	18
63	1	1.60	871.552	879.105	64.00	64.00	60.00	60.00	9	43	0.5923	17
63	2	1.60	879.105	884.165	64.00	65.00	60.00	60.00	6	30	0.5923	17
73	1	3.20	884.402	889.565	65.00	66.00	60.00	60.00	4	50	0.815	15
73	2	3.20	889.565	895.187	66.00	66.00	60.00	60.00	5	15	0.815	15

Calculated Data

Orifice ID	Run #	Meter Volume (cu ft)	Meter Volume (std cu ft)	Corrected Meter Volume (std cu ft)	Ave Meter Temp (F)	Ave Amb Temp (F)	Y	Delta H @
40	1	5.015	5.12508	5.09710	52	60	0.9945	1.7801
40	2	5.014	5.08434	5.06077	56	60	0.9954	1.7663
	AVE						0.9950	1.7732
48	1	5.063	5.10878	5.07484	59	60	0.9934	1.8005
48	2	5.519	5.55285	5.52039	60.5	60	0.9942	1.7954
	AVE						0.9938	1.7979
55	1	5.151	5.16685	5.13195	62.5	60	0.9932	1.5412
55	2	5.048	5.05386	5.01260	63.5	60	0.9918	1.5383
	AVE						0.9925	1.5398
63	1	7.553	7.56633	7.48059	64	60	0.9887	1.5278
63	2	5.06	5.06410	5.00416	64.5	60	0.9882	1.5263
	AVE						0.9884	1.5270
73	1	5.163	5.17774	5.12013	65.5	60	0.9889	1.6220
73	2	5.622	5.63269	5.56152	66	60	0.9874	1.6204
	AVE						0.9881	1.6212
					Average for All Runs		0.9916	1.6518

Source Testing And Consulting Services
Meter Box Calibration

Calibration Date: 12/7/2010
Meter Box: A-8
Technician: MLH

PART 2: Thermocouple Calibration

T/C Calibrator Make: Tegam T/C Calibrator Model: 840A

Calibrator Output (F)	Meter Reading (F)	Error (F)	Allowable Error (F)	Result
0.0	1	1	9.24	pass
32.0	36	4	9.88	pass
70.0	72	2	10.64	pass
100.0	103	3	11.24	pass
200.0	201	1	13.24	pass
500.0	506	6	19.24	pass
1200.0	1199	-1	33.24	pass
1995.0	1999	4	49.24	pass

POST TEST METER CALIBRATION DATA - EMC APPROVED ALTERNATIVE METHOD (ALT - 00S

Plant:	West County Energy Center	**Location:**	Loxahatchee, FL		Run #	1	2	3 AVERAGE
Condition:	Base Oil	**Meter #:**	**A-8**		Date:	8/4/2011	8/4/2011	8/4/2011
Unit:	2A	**Method:**	CTM-027		Start Time:	12:18	13:44	15:10
Parameter				**Units**	Stop Time:	13:24	14:57	16:18
Sampling Time				min.		60.00	60.00	60.00 **60.0**
GAS METER DATA:								
Average Meter Differential Pressure				in. H2O		1.78	1.52	1.51 **1.60**
Absolute Meter Pressure				in. Hg		29.89	29.87	29.87 **29.88**
Average Meter Temperature				degrees F		97.46	85.00	105.29 **95.92**
Metered Dry Sample Gas Volume				dcf		46.406	45.988	45.311 **45.90**
Gas Molecular Weight, Dry Basis				lb/lb-mole		29.40	29.40	29.40 **29.40**
Pre Test Calibration Factors								
DeltaH@				in. H2O		1.65	1.65	1.65 **1.650**
Dry Gas Meter Correction Factor (gamma)				Dimensionless		0.9916	0.9916	0.9916 **0.9916**
Post Test Data								
Calculated Meter Correction Factor (Yqa)				Dimensionless		**1.0279**	**0.9473**	**0.9772** **0.9841**
Difference (Post Test and Pretest Y - Maximum Allowed 5%)				%		**3.66%**	**-4.46%**	**-1.46%** **-0.75%**

Type S Pitot Tube Inspection Data Form

Source Testing and Consulting Services, Inc
1100 Purple Glory Drive
Apex, NC 27502
PH(919)-367-2200/FAX(919)-367-2222

Pitot Tube I.D. #	7.2-018	Date	02-Nov-10
Location	Shop	Tech.	MAD

Quick Connects Attached & Leak Free? y
Pitot Tube Assembly Level? y

Parameter	Value	Acceptance Criteria	Results	Meets Criteria?
α_1 =	1 °	α_1 < 10 °	1 °	TRUE
α_2 =	2 °	α_2 < 10 °	2 °	TRUE
β_1 =	0 °	β_1 < 5 °	0 °	TRUE
β_2 =	1 °	β_2 < 5 °	1 °	TRUE
γ =	0 °			
θ =	0 °			
A =	0.890 "			
z = A sin γ =	0.000 "	z < .125 in.	0.000 "	TRUE
w = A sin θ =	0.000 "	w < 0.03125 in.	0.000 "	TRUE
P_A =	0.445 "	1.05 Dt < P_A < 1.5 Dt	0.445 "	TRUE
P_b =	0.445 "	1.05 Dt < P_b < 1.5 Dt	0.445 "	TRUE
D_t =	0.373 "	0.18750" <= Dt <= 0.3750"	0.373 "	TRUE
		P_A = P_b +/- 0.0630"	0.000 "	TRUE

Pitot Tube Acceptable ?..... TRUE

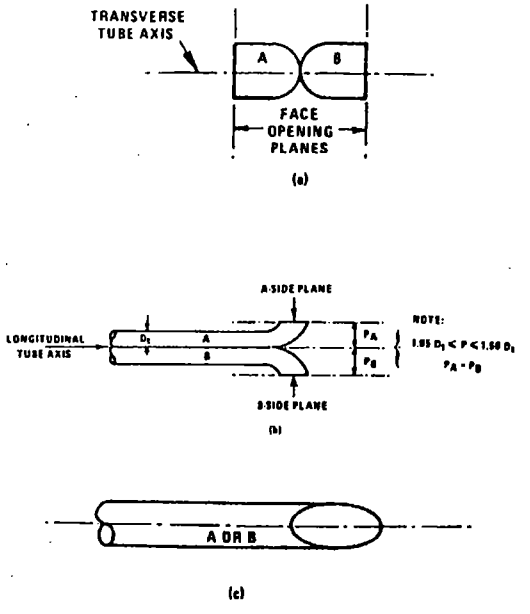

Figure 2-2. Properly constructed Type S pitot tubes, shown in: (a) end view; face opening planes perpendicular to transverse axis; (b) top view; face opening planes parallel to longitudinal axis; (c) side view; both legs of equal length and centerlines coincident, when viewed from both sides. Baseline coefficient values of 0.84 may be assigned to pitot tubes constructed this way.

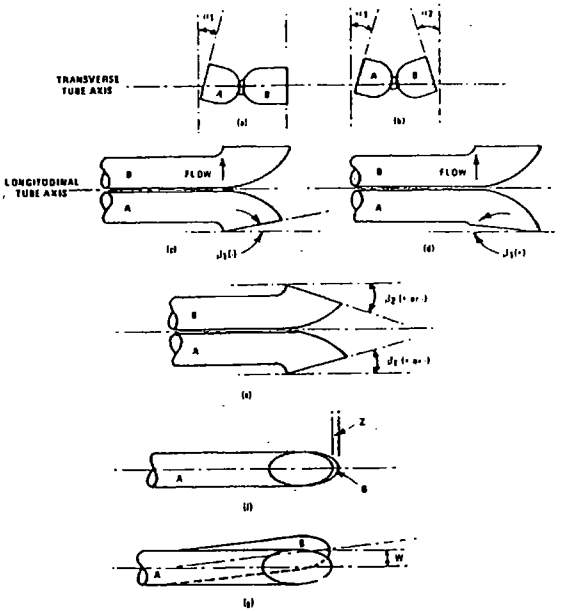

Figure 2-3. Types of face-opening misalignment that can result from field use or improper construction of Type S pitot tubes. These will not affect the baseline value of Cp(s) so long as α1 and α2 10°, β1 and β2 5°, z 0.32 cm (1/8 in.) and w 0.08 cm (1/32 in.) (citation 11 in Section 6).

Type S Pitot Tube Inspection Data Form

Source Testing and Consulting Services, Inc
1100 Purple Glory Drive
Apex, NC 27502
PH(919)-367-2200/FAX(919)-367-2222

Pitot Tube I.D. #	PO41	**Date**	09-Dec-10
Location	Shop	**Tech.**	GWJ

Quick Connects Attached & Leak Free? y
Pitot Tube Assembly Level? y

Parameter	Value	Acceptance Criteria	Results	Meets Criteria?
α_1 =	1 °	α_1 < 10 °	1 °	TRUE
α_2 =	1 °	α_2 < 10 °	1 °	TRUE
β_1 =	2 °	β_1 < 5 °	2 °	TRUE
β_2 =	2 °	β_2 < 5 °	2 °	TRUE
γ =	1 °			
θ =	1 °			
A =	0.972 "			
z = A sin γ =	0.017 "	z < .125 in.	0.017 "	TRUE
w = A sin θ =	0.017 "	w < 0.03125 in.	0.017 "	TRUE
P_A =	0.486 "	1.05 Dt < P_A < 1.5 Dt	0.486 "	TRUE
P_b =	0.486 "	1.05 Dt < P_b < 1.5 Dt	0.486 "	TRUE
D_t =	0.375 "	0.18750" <= Dt <= 0.3750"	0.375 "	TRUE
		P_A = P_b +/- 0.0630"	0.000 "	TRUE

Pitot Tube Acceptable ?..... TRUE

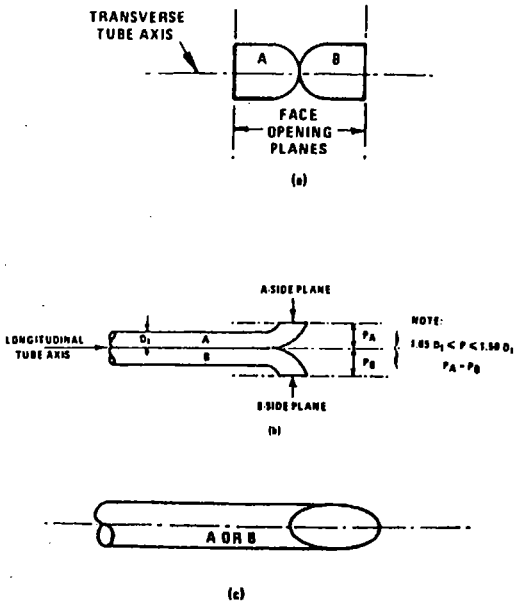

Figure 2-2. Properly constructed Type S pitot tube, shown in: (a) end view; face opening planes perpendicular to transverse axis; (b) top view; face opening planes parallel to longitudinal axis; (c) side view; both legs of equal length and centerlines coincident, when viewed from both sides. Baseline coefficient values of 0.84 may be assigned to pitot tubes constructed this way.

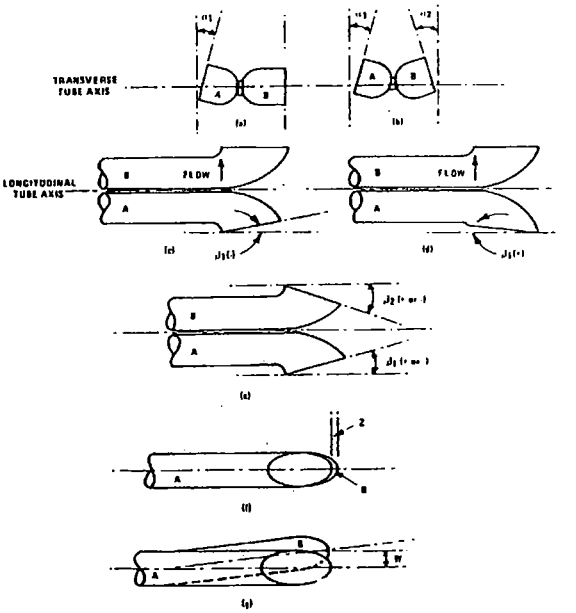

Figure 2-3. Types of face-opening misalignment that can result from field use or improper construction of Type S pitot tubes. These will not affect the baseline value of Cp(s) so long as α1 and α2 10°, β1 and β2 5°, z 0.32 cm (1/8 in.) and w 0.08 cm (1/32 in.) (citation 11 in Section 6).

AeroMet Engineering, Inc.

Solutions for a Changing Environment

Certification of Visible Opacity Reading

Charles P Sneeringer

qualified to conduct EPA Method 9 Tests for visible opacity in accordance with the methods established for such qualification in 40 CFR Part 60 Appendix A.

Certification Date: August 2, 2011 Expiration Date: February 2, 2012

AeroMet Instructor: Trey Beauchamp

Trey Beauchamp

AEROMET ENGINEERING INC. CERTIFIES THA

Charles P Sneeringer

has qualified as a CERTIFIED VISIBLE EMISSIONS READER per Title 40 Part 60 Appendix A USEPA Method 9

Issued: 8/2/11 Expires: 2/2/12

Questions? Call 573.636.6393

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APPENDIX D
PROCESS OPERATING DATA

Date/Time	Combustor Inlet Pressure B psig PWC2_ANG_COMB SHELL	CT B Load MW PWC2_ANG	ST Load MW PWC2_AN	UN#1 Grs Load MW PWC2_ANG_BL(	Ammonia Mass Flow CT B PPH PWC2_ANG_HRSG A NH3 I	CT B Fuel Oil Flow current hour lb/hr PWC2_ANG_CTA FUEL OIL CUF	CT B Fuel Oil Flow lb/hr PWC2_ANG_FO F
04-Aug-11 07:00:00	0	-0.0854568	231.1241	671.3562012	-0.245271683	0	0
04-Aug-11 07:01:00	0	-0.0854568	230.57	671.1873779	-0.274652481	0	0
04-Aug-11 07:02:00	0	-0.0854568	230.4565	671.0891113	-0.252616882	0	0
04-Aug-11 07:03:00	0.035	-0.0854568	231.2576	671.333313	-0.281997681	0	0
04-Aug-11 07:04:00	0.0175	-0.0854568	231.7116	672.3136597	-0.252616882	0	0
04-Aug-11 07:05:00	0	-0.0854568	232.3257	672.8553467	-0.281997681	0	0
04-Aug-11 07:06:00	0	-0.0854568	232.4147	672.5031128	-0.262410492	0	0
04-Aug-11 07:07:00	0.026250001	-0.0854568	232.8865	672.3613281	-0.267307281	0	0
04-Aug-11 07:08:00	0	-0.0854568	233.1602	672.3747559	-0.281997681	0	0
04-Aug-11 07:09:00	0	-0.0854568	232.526	672.2211914	-0.259962082	0	0
04-Aug-11 07:10:00	0.030625001	-0.0854568	232.5594	671.9960938	-0.230581284	0	0
04-Aug-11 07:11:00	0	-0.0854568	231.9452	671.9522095	-0.259962082	0	0
04-Aug-11 07:12:00	0	-0.0854568	231.2576	671.0357666	-0.223236084	0	0
04-Aug-11 07:13:00	0.0175	-0.0854568	231.3911	671.8482666	-0.252616882	0	0
04-Aug-11 07:14:00	0.003888889	-0.0854568	231.5246	671.7197876	-0.229765147	0	0
04-Aug-11 07:15:00	0	-0.0854568	231.6915	671.8635254	-0.281997681	0	0
04-Aug-11 07:16:00	0	-0.0854568	231.291	671.3399658	-0.281997681	0	0
04-Aug-11 07:17:00	0	-0.0854568	232.1255	671.8902588	-0.281997681	0	0
04-Aug-11 07:18:00	0	-0.0854568	232.2189	672.0275879	-0.223236084	0	0
04-Aug-11 07:19:00	0	-0.0854568	233.1268	672.5844727	-0.274652481	0	0
04-Aug-11 07:20:00	0.0175	-0.0854568	232.4592	672.088623	-0.252616882	0	0
04-Aug-11 07:21:00	0	-0.0854568	232.3792	671.9436035	-0.223236084	0	0
04-Aug-11 07:22:00	0.013125001	-0.0854568	232.1588	672.7952881	4.329595566	0	0
04-Aug-11 07:23:00	0.004375	-0.0854568	231.8251	671.6403809	-0.281997681	0	0
04-Aug-11 07:24:00	0	-0.0854568	231.9919	672.4824829	-0.259962082	0	0
04-Aug-11 07:25:00	0.030625001	-0.0854568	232.0587	672.2412109	-0.230581284	0	0
04-Aug-11 07:26:00	0	-0.0854568	232.3791	672.4071045	-0.267307281	0	0
04-Aug-11 07:27:00	0.035	-0.0854568	232.4147	672.3886719	-0.242823288	0	0
04-Aug-11 07:28:00	0.030625001	-0.0854568	232.5594	672.7027588	-0.223236084	0	0
04-Aug-11 07:29:00	0.015555556	-0.0854568	232.0884	671.7927856	-0.249352351	0	0
04-Aug-11 07:30:00	0	-0.0854568	232.5928	672.8591309	-0.281997681	0	0
04-Aug-11 07:31:00	0.00875	-0.0854568	232.3925	672.0408936	-0.267307281	0	0
04-Aug-11 07:32:00	0	-0.0854568	231.7917	672.1674194	-0.242823288	0	0
04-Aug-11 07:33:00	0.004375	-0.0854568	230.7569	671.6260986	-0.281997681	0	0
04-Aug-11 07:34:00	0.015555556	-0.0854568	229.8928	671.2595825	-0.249352351	0	0
04-Aug-11 07:35:00	0	-0.0854568	230.7236	671.6231689	-0.223236084	0	0

Date/Time	Combustor Inlet Pressure B psig PWC2_ANG_COMB SHELL	CT B Load MW PWC2_ANG	ST Load MW PWC2_AN	UN#1 Grs Load MW PWC2_ANG_BL(	Ammonia Mass Flow CT B PPH PWC2_ANG_HRSG A NH3 I	CT B Fuel Oil Flow current hour lb/hr PWC2_ANG_CTA FUEL OIL CUF	CT B Fuel Oil Flow lb/hr PWC2_ANG_FO F
04-Aug-11 07:36:00	0.026250001	-0.0854568	230.9906	672.1973267	-0.267307281	0	0
04-Aug-11 07:37:00	0	-0.0854568	230.8838	671.546936	-0.281997681	0	0
04-Aug-11 07:38:00	0	-0.0854568	229.7222	670.4282837	-0.281997681	0	0
04-Aug-11 07:39:00	0.035	-0.0854568	228.9879	670.3834229	-0.245271683	0	0
04-Aug-11 07:40:00	0	-0.0854568	229.4418	670.7686768	-0.281997681	0	0
04-Aug-11 07:41:00	0	-0.0854568	229.2883	670.3834229	-0.149812698	0	0
04-Aug-11 07:42:00	0.026250001	-0.0854568	228.9612	670.3013916	-0.237926483	0	0
04-Aug-11 07:43:00	0.007777778	-0.0854568	228.5873	670.0498047	-0.268939555	0	0
04-Aug-11 07:44:00	0.048124999	-0.0854568	228.7542	670.4979248	-0.245271683	0	0
04-Aug-11 07:45:00	0.004375	-0.0854568	228.7876	670.5264282	-0.274652481	0	0
04-Aug-11 07:46:00	0.0175	-0.0854568	229.3884	671.2036133	-0.252616882	0	0
04-Aug-11 07:47:00	0	-0.0854568	229.5887	670.9575806	-0.281997681	0	0
04-Aug-11 07:48:00	0.00875	-0.0854568	229.4552	670.4006348	-0.267307281	0	0
04-Aug-11 07:49:00	0.013125001	-0.0854568	228.8543	670.1936035	-0.245271683	0	0
04-Aug-11 07:50:00	0.030625001	-0.0854568	228.8543	670.6056519	-0.230581284	0	0
04-Aug-11 07:51:00	0	-0.0854568	228.5873	670.1431274	-0.252616882	0	0
04-Aug-11 07:52:00	0.030625001	-0.0854568	229.088	670.7544556	-0.230581284	0	0
04-Aug-11 07:53:00	0.011666667	-0.0854568	229.1214	670.9263916	-0.281997681	0	0
04-Aug-11 07:54:00	0.00875	-0.0854568	229.1214	670.3948975	-0.281997681	0	0
04-Aug-11 07:55:00	0.00875	-0.0854568	228.9879	670.3701172	-0.281997681	0	0
04-Aug-11 07:56:00	0	-0.0854568	229.2883	671.1282349	-0.245271683	0	0
04-Aug-11 07:57:00	0.026250001	-0.0854568	229.2549	670.6065674	-0.281997681	0	0
04-Aug-11 07:58:00	0	-0.0854568	228.6541	670.4845581	-0.281997681	0	0
04-Aug-11 07:59:00	0	-0.0854568	228.5873	670.5435791	-0.281997681	0	0
04-Aug-11 08:00:00	0	-0.0854568	228.6875	670.6580811	-0.245271683	0	0
04-Aug-11 08:01:00	-0.004375	-0.0854568	228.5873	670.4177856	-0.230581284	0	0
04-Aug-11 08:02:00	0	-0.0854568	227.9198	670.0249023	-0.281997681	0	0
04-Aug-11 08:03:00	0	-0.0854568	227.5726	670.5245972	-0.223236084	0	0
04-Aug-11 08:04:00	0.013125001	-0.0854568	226.9384	670.859314	-0.281997681	0	0
04-Aug-11 08:05:00	0.030625001	-0.0854568	227.7863	670.6618652	-0.230581284	0	0
04-Aug-11 08:06:00	0	-0.0854568	228.6875	670.9223022	-0.259962082	0	0
04-Aug-11 08:07:00	0	-0.0854568	229.3884	670.4158936	-0.281997681	0	0
04-Aug-11 08:08:00	0	-0.0854568	229.3884	669.6853638	-0.274652481	0	0
04-Aug-11 08:09:00	0	-0.0854568	228.5206	668.9814453	-0.281997681	0	0
04-Aug-11 08:10:00	0	-0.0854568	228.0533	668.9987183	-0.274652481	0	0
04-Aug-11 08:11:00	0.0175	-0.0854568	226.8783	669.28479	-0.252616882	0	0
04-Aug-11 08:12:00	0	-0.0854568	226.2375	669.1513062	-0.281997681	0	0

Date/Time	Combustor Inlet Pressure B psig PWC2_ANG_COMB SHELL	CT B Load MW PWC2_ANG	ST Load MW PWC2_AN	UN#1 Grs Load MW PWC2_ANG_BL(	Ammonia Mass Flow CT B PPH PWC2_ANG_HRSG A NH3 I	CT B Fuel Oil Flow current hour lb/hr PWC2_ANG_CTA FUEL OIL CUF	CT B Fuel Oil Flow lb/hr PWC2_ANG_FO F
04-Aug-11 08:13:00	0	-0.0854568	225.3696	669.0311279	-0.281997681	0	0
04-Aug-11 08:14:00	0	-0.0854568	225.5032	669.3200684	-0.281997681	0	0
04-Aug-11 08:15:00	0.030625001	-0.0854568	225.136	668.1175537	-0.274652481	0	0
04-Aug-11 08:16:00	0	-0.0854568	225.9705	668.800354	-0.281997681	0	0
04-Aug-11 08:17:00	0.035	-0.0854568	225.9705	668.220459	-0.281997681	0	0
04-Aug-11 08:18:00	0	-0.0854568	226.5045	669.331543	-0.259962082	0	0
04-Aug-11 08:19:00	0	-0.0854568	226.2375	669.2276001	-0.230581284	0	0
04-Aug-11 08:20:00	0	-0.0854568	225.7034	669.0139771	-0.267307281	0	0
04-Aug-11 08:21:00	0	-0.0854568	225.2361	669.0063477	-0.281997681	0	0
04-Aug-11 08:22:00	0	-0.0854568	224.9357	668.1356201	-0.274652481	0	0
04-Aug-11 08:23:00	0.021875	-0.0854568	225.0692	668.9052734	-0.281997681	0	0
04-Aug-11 08:24:00	0.030625001	-0.0854568	225.7301	669.5899658	-0.281997681	0	0
04-Aug-11 08:25:00	-0.013125001	-0.0854568	226.4044	669.7502441	-0.259962082	0	0
04-Aug-11 08:26:00	0.030625001	-0.0854568	226.7715	669.8074341	-0.281997681	0	0
04-Aug-11 08:27:00	0	-0.0854568	226.8516	669.699646	-0.259962082	0	0
04-Aug-11 08:28:00	0	-0.0854568	226.5045	669.6357422	-0.281997681	0	0
04-Aug-11 08:29:00	0	-0.0854568	226.1374	669.2314453	-0.259962082	0	0
04-Aug-11 08:30:00	0.035	-0.0854568	225.4364	668.3807373	-0.223236084	0	0
04-Aug-11 08:31:00	0	-0.0854568	225.1961	668.2243652	-0.281997681	0	0
04-Aug-11 08:32:00	0.004375	-0.0854568	224.6353	668.4855957	-0.230581284	0	0
04-Aug-11 08:33:00	0	-0.0854568	224.7354	668.645813	-0.245271683	0	0
04-Aug-11 08:34:00	0	-0.0854568	224.9023	668.6067505	-0.230581284	0	0
04-Aug-11 08:35:00	0.035	-0.0854568	225.2495	668.6495972	-0.281997681	0	0
04-Aug-11 08:36:00	0	-0.0854568	225.8703	669.1704102	-0.281997681	0	0
04-Aug-11 08:37:00	0.004375	-0.0854568	226.5045	670.1297607	-0.230581284	0	0
04-Aug-11 08:38:00	0.013125001	2.7183485	226.2709	669.3983154	-0.245271683	0	0
04-Aug-11 08:39:00	0.209999993	-0.0854568	225.9705	668.4875488	-0.223236084	0	0
04-Aug-11 08:40:00	0.866249979	-0.0854568	225.5365	669.3839722	-0.259962082	0	0
04-Aug-11 08:41:00	1.124374986	-0.0854568	225.136	671.932251	-0.230581284	0	0
04-Aug-11 08:42:00	1.076250076	-0.0854568	225.7034	678.3733521	-0.267307281	0	0
04-Aug-11 08:43:00	1.006250024	-0.0854568	225.2027	683.9552002	-0.245271683	0	0
04-Aug-11 08:44:00	1.014999986	-0.0854568	226.8383	688.3363647	-0.274652481	0	0
04-Aug-11 08:45:00	0.997500002	-0.0854568	228.8277	690.5327148	-0.281997681	0	0
04-Aug-11 08:46:00	0.983888924	-0.0854568	230.6168	690.7017212	-0.275468618	0	0
04-Aug-11 08:47:00	1.014999986	-0.0854568	231.4379	691.1430664	-0.281997681	0	0
04-Aug-11 08:48:00	1.010625005	-0.0854568	232.0253	691.1449585	-0.223236084	0	0
04-Aug-11 08:49:00	1.014999986	-0.0854568	231.6448	690.7272339	-0.281997681	0	0

Date/Time	Combustor Inlet Pressure B psig PWC2_ANG_COMB SHELL	CT B Load MW PWC2_ANG	ST Load MW PWC2_AN	UN#1 Grs Load MW PWC2_ANG_BL(	Ammonia Mass Flow CT B PPH PWC2_ANG_HRSG A NH3 I	CT B Fuel Oil Flow current hour lb/hr PWC2_ANG_CTA FUEL OIL CUF	CT B Fuel Oil Flow lb/hr PWC2_ANG_FO F
04-Aug-11 08:50:00	1.014999986	-0.0854568	231.5246	691.7628784	-0.267307281	0	0
04-Aug-11 08:51:00	0.984375	-0.0854568	231.2576	695.7511597	-0.281997681	0	0
04-Aug-11 08:52:00	1.001875043	-0.0854568	232.2256	700.0350952	-0.245271683	0	0
04-Aug-11 08:53:00	1.010625005	-0.0854568	233.4606	704.7767334	-0.230581284	0	0
04-Aug-11 08:54:00	1.014999986	-0.0854568	233.8278	707.5032959	-0.223236084	0	0
04-Aug-11 08:55:00	0.948888958	-0.0854568	236.1176	710.6619263	-0.229765147	0	0
04-Aug-11 08:56:00	0.997500002	-0.0854568	238.0669	712.1314697	-0.281997681	0	0
04-Aug-11 08:57:00	1.01111114	-0.0854568	238.681	712.4684448	-0.229765147	0	0
04-Aug-11 08:58:00	0.971250057	-0.0854568	238.3472	711.5859985	-0.281997681	0	0
04-Aug-11 08:59:00	0.875	-0.0854568	237.3459	710.5884399	-0.237926483	0	0
04-Aug-11 09:00:00	0.905624986	-0.0854568	237.1322	711.0366821	-0.274652481	0	0
04-Aug-11 09:01:00	4.151875019	-0.0854568	237.3125	713.3884277	-0.245271683	0	0
04-Aug-11 09:02:00	5.180000305	-0.0854568	237.6663	715.8355103	-0.281997681	0	0
04-Aug-11 09:03:00	5.355000019	-0.0854568	237.4794	715.8508301	-0.252616882	0	0
04-Aug-11 09:04:00	7.275624752	-0.0854568	238.3138	717.5540771	-0.281997681	0	0
04-Aug-11 09:05:00	11.21312523	-0.0854568	238.948	718.6317139	-0.281997681	0	0
04-Aug-11 09:06:00	16.22444344	-0.0854568	240.0162	720.5496826	-0.223236084	0	0
04-Aug-11 09:07:00	22.03250122	-0.0854568	240.8306	721.9848633	-0.281997681	0	0
04-Aug-11 09:08:00	29.06749916	-0.0854568	241.6317	722.5513306	-0.281997681	0	0
04-Aug-11 09:09:00	37.44124603	-0.0854568	242.1324	721.8227539	-0.230581284	0	0
04-Aug-11 09:10:00	47.17562485	-0.0854568	241.9321	721.2294922	-0.281997681	0	0
04-Aug-11 09:11:00	59.92874908	-0.0854568	241.9254	721.6854248	-0.281997681	0	0
04-Aug-11 09:12:00	72.48937225	-0.0854568	241.8319	721.3143921	-0.259962082	0	0
04-Aug-11 09:13:00	82.73124695	-0.0854568	242.3994	722.0830688	-0.230581284	0	0
04-Aug-11 09:14:00	89.88000488	-0.0854568	243.4341	722.9232788	-0.223236084	0	0
04-Aug-11 09:15:00	99.75	-0.0854568	243.9682	722.4959717	-0.223236084	0	0
04-Aug-11 09:16:00	139.5056305	-0.0854568	244.0683	722.5236816	-0.245271683	0	0
04-Aug-11 09:17:00	144.7206116	-0.0854568	243.8013	721.7825928	-0.281997681	0	0
04-Aug-11 09:18:00	133.2362518	-0.0854568	243.334	721.9266968	-0.259962082	0	0
04-Aug-11 09:19:00	128.1524963	16.073606	243.0202	736.2521973	-0.237926483	0	0
04-Aug-11 09:20:00	127.0281219	10.698693	242.5329	730.4824829	-0.223236084	0	0
04-Aug-11 09:21:00	126.7787476	11.843104	243.1004	732.7007446	-0.223236084	0	0
04-Aug-11 09:22:00	126.9318695	10.073083	243.9615	731.9520874	-0.281997681	0	0
04-Aug-11 09:23:00	126.7481232	11.255641	244.589	733.6572266	-0.281997681	0	0
04-Aug-11 09:24:00	126.6693726	11.961365	243.7679	733.9767456	-0.230581284	0	0
04-Aug-11 09:25:00	126.6300049	11.480709	243.9682	732.7904053	-0.252616882	0	0
04-Aug-11 09:26:00	126.6300049	10.443108	243.9682	733.6104736	-0.223236084	0	0

Date/Time	Combustor Inlet Pressure B psig PWC2_ANG_COMB SHELL	CT B Load MW PWC2_ANG	ST Load MW PWC2_AN	UN#1 Grs Load MW PWC2_ANG_BL(	Ammonia Mass Flow CT B PPH PWC2_ANG_HRSG A NH3 I	CT B Fuel Oil Flow current hour lb/hr PWC2_ANG_CTA FUEL OIL CUF	CT B Fuel Oil Flow lb/hr PWC2_ANG_FO F
04-Aug-11 09:27:00	126.7874908	11.358643	244.1017	731.7070313	-0.223236084	0	0
04-Aug-11 09:28:00	126.7700043	12.335197	245.0363	734.4116211	-0.223236084	0	0
04-Aug-11 09:29:00	126.6912537	11.179349	245.5504	733.6305542	-0.245271683	0	0
04-Aug-11 09:30:00	126.7262497	12.57553	245.5504	734.9266357	-0.230581284	0	0
04-Aug-11 09:31:00	126.7437515	11.114502	245.2032	732.5147095	-0.245271683	0	0
04-Aug-11 09:32:00	126.5950012	11.343384	244.5022	732.8189697	-0.281997681	0	0
04-Aug-11 09:33:00	126.6912537	12.541199	244.2018	733.3835449	-0.223236084	0	0
04-Aug-11 09:34:00	126.6825027	11.228935	243.3674	730.6513062	-0.245271683	0	0
04-Aug-11 09:35:00	126.6343689	11.175536	244.0016	731.1375732	-0.274652481	0	0
04-Aug-11 09:36:00	126.6474991	11.862183	244.5022	732.2724609	-0.245271683	0	0
04-Aug-11 09:37:00	126.8050003	11.816406	245.0363	731.6192627	-0.281997681	0	0
04-Aug-11 09:38:00	126.7699966	11.816399	243.7212	730.1477661	-0.259962082	0	0
04-Aug-11 09:39:00	126.5250015	9.9853439	242.9668	728.9508667	-0.274652481	0	0
04-Aug-11 09:40:00	126.7043762	11.118312	243.0002	729.750061	-0.223236084	0	0
04-Aug-11 09:41:00	126.840004	12.220758	243.4341	730.329895	-0.267307281	0	0
04-Aug-11 09:42:00	126.7350006	11.755371	244.035	731.4685059	-0.281997681	0	0
04-Aug-11 09:43:00	126.691246	10.652916	244.8694	731.5839844	-0.281997681	0	0
04-Aug-11 09:44:00	127.1856308	12.632744	245.5237	733.1489258	-0.281997681	0	0
04-Aug-11 09:45:00	127.5312576	13.300323	245.517	733.9995728	-0.259962082	0	0
04-Aug-11 09:46:00	127.3124924	12.31994	245.0697	732.9772949	-0.274652481	0	0
04-Aug-11 09:47:00	129.4299927	18.911743	244.2352	738.9701538	-0.252616882	0	0
04-Aug-11 09:48:00	133	31.011963	244.5022	750.6317139	-0.223236084	0	0
04-Aug-11 09:49:00	135.9837494	37.924194	244.0016	756.8553467	-0.223236084	0	0
04-Aug-11 09:50:00	136.6881256	39.415741	244.4355	758.1552734	-0.223236084	0	0
04-Aug-11 09:51:00	140.4987488	51.348114	245.1364	771.9243774	-0.245271683	0	0
04-Aug-11 09:52:00	142.5943604	57.466888	245.517	777.1829224	-0.259962082	0	0
04-Aug-11 09:53:00	143.7450104	61.636353	244.7359	781.7806396	-0.230581284	0	0
04-Aug-11 09:54:00	145.7283325	67.456734	245.784	787.6537476	-0.223236084	0	0
04-Aug-11 09:55:00	146.3350067	68.609619	245.5704	788.4734497	-0.223236084	0	0
04-Aug-11 09:56:00	146.5843811	69.353477	245.6505	790.31604	-0.245271683	0	0
04-Aug-11 09:57:00	146.676239	68.998718	245.6037	790.7775269	-0.281997681	0	0
04-Aug-11 09:58:00	146.5449982	69.303894	246.1044	790.5944824	-0.237926483	0	0
04-Aug-11 09:59:00	146.5537567	69.242844	248.5077	793.3286743	-0.245271683	0	0
04-Aug-11 10:00:00	146.4006195	68.674454	248.9883	793.1884155	-0.230581284	0	0
04-Aug-11 10:01:00	146.4487457	68.300629	247.9402	792.5409546	-0.223236084	0	0
04-Aug-11 10:02:00	146.4049988	68.518051	246.1044	789.2364502	-0.223236084	0	0
04-Aug-11 10:03:00	146.3699951	69.052116	244.6358	787.7525024	-0.281997681	0	0

Date/Time	Combustor Inlet Pressure B psig PWC2_ANG_COMB SHELL	CT B Load MW PWC2_ANG	ST Load MW PWC2_AN	UN#1 Grs Load MW PWC2_ANG_BL(	Ammonia Mass Flow CT B PPH PWC2_ANG_HRSG A NH3 I	CT B Fuel Oil Flow current hour lb/hr PWC2_ANG_CTA FUEL OIL CUF	CT B Fuel Oil Flow lb/hr PWC2_ANG_FO F
04-Aug-11 10:04:00	146.3962555	68.994888	243.7012	785.9510498	-0.281997681	0	0
04-Aug-11 10:05:00	146.4662476	68.487549	242.6664	785.6535034	-0.259962082	0	0
04-Aug-11 10:06:00	146.4706116	68.472275	244.1685	787.9804077	-0.281997681	0	0
04-Aug-11 10:07:00	146.5887451	69.204712	243.9682	787.3824463	-0.223236084	0	0
04-Aug-11 10:08:00	146.3481293	68.537132	243.868	788.0872803	-0.281997681	0	0
04-Aug-11 10:09:00	146.5800018	69.0979	243.2739	787.7639771	-0.281997681	0	0
04-Aug-11 10:10:00	146.4750061	68.014526	243.0336	786.9018555	-0.252616882	0	0
04-Aug-11 10:11:00	146.4881287	68.445572	243.601	786.8169556	-0.274652481	0	0
04-Aug-11 10:12:00	146.5449982	68.708801	245.1565	789.3852539	-0.267307281	0	0
04-Aug-11 10:13:00	146.4575043	67.949669	246.6852	789.0447388	-0.245271683	0	0
04-Aug-11 10:14:00	146.5537415	69.059753	247.9669	791.0521851	-0.274652481	0	0
04-Aug-11 10:15:00	146.5581207	69.109329	247.8067	790.9110718	-0.259962082	0	0
04-Aug-11 10:16:00	146.5712585	68.945313	246.6385	789.0628662	-0.223236084	0	0
04-Aug-11 10:17:00	146.5975037	69.158928	246.1044	788.4658813	-0.252616882	0	0
04-Aug-11 10:18:00	146.4749908	68.518051	244.5022	786.5737305	-0.281997681	0	0
04-Aug-11 10:19:00	146.7112427	69.578545	244.9762	789.0762329	-0.281997681	0	0
04-Aug-11 10:20:00	146.9562683	68.84613	245.0029	789.3175049	-0.274652481	0	0
04-Aug-11 10:21:00	148.6493835	75.86898	245.7706	795.1549683	-0.245271683	0	0
04-Aug-11 10:22:00	152.1537476	86.454773	246.1378	806.144104	-0.274652481	0	0
04-Aug-11 10:23:00	153.3350067	89.346313	246.2379	809.3265381	-0.237926483	0	0
04-Aug-11 10:24:00	153.6937561	90.063461	245.3033	807.7758789	-0.223236084	0	0
04-Aug-11 10:25:00	153.4749908	90.509781	245.0029	808.9174194	-0.230581284	0	0
04-Aug-11 10:26:00	153.3831177	87.782288	244.569	806.6199951	-0.259962082	0	0
04-Aug-11 10:27:00	153.125	84.753403	244.2352	802.8778076	-0.223236084	0	0
04-Aug-11 10:28:00	154.3325043	88.369751	244.569	806.5761108	-0.237926483	0	0
04-Aug-11 10:29:00	154.7350006	89.193726	245.3701	809.0518799	-0.223236084	0	0
04-Aug-11 10:30:00	154.8487549	89.079285	245.5704	808.3519287	-0.230581284	0	0
04-Aug-11 10:31:00	154.9099884	90.425865	245.9242	808.7000122	-0.245271683	0	0
04-Aug-11 10:32:00	154.9099884	90.032959	245.5704	810.6520996	-0.223236084	0	0
04-Aug-11 10:33:00	155.0149994	89.651482	245.3033	809.362793	-0.245271683	0	0
04-Aug-11 10:34:00	154.9712524	89.903259	245.5036	808.1744995	-0.223236084	0	0
04-Aug-11 10:35:00	154.8181152	90.601349	245.7907	810.2058105	-0.230581284	0	0
04-Aug-11 10:36:00	154.2581177	90.883636	245.3033	809.7728882	-0.223236084	0	0
04-Aug-11 10:37:00	154.0700073	88.873291	246.1044	807.8597412	-0.223236084	0	0
04-Aug-11 10:38:00	154.5775146	88.65966	245.5437	807.2379761	-0.223236084	0	0
04-Aug-11 10:39:00	154.6999969	89.910889	245.0029	809.0461426	-0.230581284	0	0
04-Aug-11 10:40:00	154.9581299	90.406799	244.7693	808.5922241	-0.259962082	0	0

Date/Time	Combustor Inlet Pressure B psig PWC2_ANG_COMB SHELL	CT B Load MW PWC2_ANG	ST Load MW PWC2_AN	UN#1 Grs Load MW PWC2_ANG_BL(	Ammonia Mass Flow CT B PPH PWC2_ANG_HRSG A NH3 I	CT B Fuel Oil Flow current hour lb/hr PWC2_ANG_CTA FUEL OIL CUF	CT B Fuel Oil Flow lb/hr PWC2_ANG_FO F
04-Aug-11 10:41:00	155.0193787	89.128876	244.796	806.6772461	-0.230581284	0	0
04-Aug-11 10:42:00	154.9275055	89.491272	244.836	807.4324951	-0.267307281	0	0
04-Aug-11 10:43:00	155.0325012	89.315796	245.5837	809.1186523	-0.223236084	0	0
04-Aug-11 10:44:00	155.0193787	89.918518	246.3715	808.6494141	-0.274652481	0	0
04-Aug-11 10:45:00	154.8400116	89.620964	246.0777	808.6570435	-0.252616882	0	0
04-Aug-11 10:46:00	154.2799988	91.436768	246.1044	808.8057861	-0.223236084	0	0
04-Aug-11 10:47:00	153.7943726	86.889648	244.8694	804.0002441	-0.259962082	0	0
04-Aug-11 10:48:00	154.3675079	88.163742	243.9415	804.7183838	-0.237926483	0	0
04-Aug-11 10:49:00	154.9012451	88.751221	244.2486	804.8833618	-0.223236084	0	0
04-Aug-11 10:50:00	154.9931183	89.563751	244.3354	806.3348389	-0.245271683	0	0
04-Aug-11 10:51:00	154.871109	89.022491	245.2737	808.1751709	-0.275468618	0	0
04-Aug-11 10:52:00	154.9099884	90.231308	246.1044	809.1529541	-0.252616882	0	0
04-Aug-11 10:53:00	154.9799957	89.788818	245.517	808.0047607	-0.223236084	0	0
04-Aug-11 10:54:00	154.9231262	89.220428	245.3033	808.0581665	-0.223236084	0	0
04-Aug-11 10:55:00	154.9099884	89.895615	244.5356	807.6451416	-0.274652481	0	0
04-Aug-11 10:56:00	155.2206116	94.36264	244.5022	813.0697021	-0.259962082	0	0
04-Aug-11 10:57:00	154.4812469	91.814407	244.5022	808.5349121	-0.274652481	0	0
04-Aug-11 10:58:00	154.1750031	91.71904	245.4636	810.2554321	-0.267307281	0	0
04-Aug-11 10:59:00	153.6281281	90.547943	246.1044	808.9317017	-0.245271683	0	0
04-Aug-11 11:00:00	153.5406189	91.989899	247.1191	809.3779907	-0.274652481	0.149450004	14347.52734
04-Aug-11 11:01:00	154.1224976	89.117432	246.7453	807.7491455	-0.252616882	0.49404633	39847.67969
04-Aug-11 11:02:00	167.9299927	86.035156	245.3033	803.6331177	-0.281997681	1.3377285	59699.92188
04-Aug-11 11:03:00	172.7993774	87.965393	244.8494	805.3735962	-0.259962082	2.337736607	63148.39063
04-Aug-11 11:04:00	173.3331146	89.682007	244.5022	806.2880859	-0.274652481	3.386241436	64072.25781
04-Aug-11 11:05:00	175.0262451	95.610046	242.9668	811.0812988	-0.237926483	4.416950226	66230.10156
04-Aug-11 11:06:00	178.5874939	109.24377	244.4355	826.0787354	-0.267307281	5.552476883	71002.78906
04-Aug-11 11:07:00	181.1381226	114.8056	246.4382	832.9547729	-0.223236084	6.692080021	71464.70313
04-Aug-11 11:08:00	180.5950012	109.4988	248.6602	830.4983521	-0.265208662	7.85246706	70358.44531
04-Aug-11 11:09:00	181.5100098	110.79254	251.485	833.7406006	-0.237926483	9.017041206	72104.9375
04-Aug-11 11:10:00	181.8293762	111.44867	247.0858	830.8165894	-0.259962082	10.17723465	72917.94531
04-Aug-11 11:11:00	175.7218781	116.48788	245.2366	833.3505249	-0.230581284	11.40420723	77184.28125
04-Aug-11 11:12:00	178.9199982	127.79464	244.3354	844.3883667	-0.223236084	12.68293571	80540.92188
04-Aug-11 11:13:00	189.3368835	139.07089	243.9014	855.8619995	-0.223236084	14.01913834	84081.27344
04-Aug-11 11:14:00	198.3799896	150.12207	242.099	863.3521729	331.2529602	15.41003799	87511.42188
04-Aug-11 11:15:00	207.1999969	160.5896	247.3861	879.270874	399.0756226	16.85905647	91293.17969
04-Aug-11 11:16:00	215.5475006	170.77864	250.2567	892.9293823	415.9137878	18.35407066	95138.51563
04-Aug-11 11:17:00	225.1200104	181.64291	254.2088	907.9974976	450.9118958	19.95016479	99797.35938

Date/Time	Combustor Inlet Pressure B psig	CT B Load MW	ST Load MW	UN#1 Grs Load MW	Ammonia Mass Flow CT B PPH	CT B Fuel Oil Flow current hour lb/hr	CT B Fuel Oil Flow lb/hr
	PWC2_ANG_COMB SHELL	PWC2_ANG	PWC2_AN	PWC2_ANG_BL(	PWC2_ANG_HRSG A NH3 I	PWC2_ANG_CTA FUEL OIL CUF	PWC2_ANG_FO F
04-Aug-11 11:18:00	231.3966522	188.12662	253.9195	913.7125854	409.7087097	21.5865345	102315.2422
04-Aug-11 11:19:00	232.7324982	189.28757	252.6266	913.2312012	397.636322	23.22930717	102888.8672
04-Aug-11 11:20:00	233.0431213	190.20691	250.9243	911.796875	418.1828918	24.89740372	103171.2188
04-Aug-11 11:21:00	233.3493805	190.84013	249.1886	910.6029663	425.6877136	26.57066154	103358.6797
04-Aug-11 11:22:00	233.8349915	191.68698	250.3235	912.6647949	445.0152588	28.24893379	103692.4922
04-Aug-11 11:23:00	234.6633301	192.57201	250.7092	914.6060181	415.557251	29.94857597	104288.1875
04-Aug-11 11:24:00	236.0793762	193.93768	258.8951	923.6386719	433.500946	31.6230278	104451.4688
04-Aug-11 11:25:00	236.8624878	194.84558	270.0435	934.7003784	390.0874329	33.31787491	104896.9922
04-Aug-11 11:26:00	237.7506256	195.4483	283.9491	949.7694092	405.4422607	35.01855087	105339.6563
04-Aug-11 11:27:00	239.0806274	195.75348	299.0562	964.5780029	437.5030518	36.7250061	105445.8516
04-Aug-11 11:28:00	239.8899994	196.7453	311.186	977.8236084	437.2092896	38.43586731	105856.5547
04-Aug-11 11:29:00	241.0450134	196.90552	316.4398	983.0841064	449.2449951	40.15330505	106068.2109
04-Aug-11 11:30:00	241.4825134	197.9126	323.4626	991.3734131	372.7865906	41.87528992	106424.3438
04-Aug-11 11:31:00	242.2568817	198.24448	330.085	998.8426514	285.585022	43.60177231	106772.7031
04-Aug-11 11:32:00	243.2106323	199.15237	335.1719	1004.614258	218.5040436	45.34503174	107010.2578
04-Aug-11 11:33:00	244.0287476	199.24011	342.088	1011.999451	195.9160919	47.07205963	107328.1484
04-Aug-11 11:34:00	245.3412476	201.34583	347.5487	1018.051514	220.8538818	48.81538391	107856.7969
04-Aug-11 11:35:00	246.1506195	201.42592	353.904	1024.196045	303.8110657	50.56396103	108099.6484
04-Aug-11 11:36:00	247.3012543	201.73492	359.358	1031.101563	300.8370667	52.31756592	108411.875
04-Aug-11 11:37:00	248.1937561	202.30713	366.8148	1039.242188	307.1669617	54.07744598	108760.5781
04-Aug-11 11:38:00	249.2855682	203.1718	370.801	1043.959839	294.3635254	55.84687805	109268.5391
04-Aug-11 11:39:00	250.3200073	203.84827	375.5066	1049.082153	311.5142212	57.64398575	109648.4844
04-Aug-11 11:40:00	251.1949921	204.6875	379.7256	1054.457031	310.3098755	59.45102692	109775.9688
04-Aug-11 11:41:00	251.6587524	205.57251	383.1302	1058.199341	369.5115051	61.20319748	110231.875
04-Aug-11 11:42:00	251.829361	206.33545	386.0943	1062.660522	341.9888306	62.99141693	110540.1484
04-Aug-11 11:43:00	251.4356232	204.9774	388.4642	1063.290894	345.2860107	64.7910614	110178.8906
04-Aug-11 11:44:00	251.2455597	204.99945	390.1279	1065.113525	337.0133667	66.56799316	109827.0078
04-Aug-11 11:45:00	251.4312439	205.48096	392.503	1067.016968	315.3620605	68.34527588	110205.9219
04-Aug-11 11:46:00	251.0768738	204.53491	394.1118	1067.878174	365.6929932	70.12810516	109815.0391
04-Aug-11 11:47:00	251.0724945	204.71039	396.6553	1070.570313	334.4179688	71.90789032	109951.8906
04-Aug-11 11:48:00	250.9762421	205.15289	398.5378	1072.743774	316.1184387	73.7210083	110176.6328
04-Aug-11 11:49:00	250.460022	203.23283	399.3256	1073.09729	344.0042114	75.44454956	109457
04-Aug-11 11:50:00	250.7443695	204.18013	400.0732	1074.354492	372.7719421	77.21452332	109578.2109
04-Aug-11 11:51:00	251.0418701	204.69131	401.1747	1075.53418	316.7646484	79.02133179	109805.0234
04-Aug-11 11:52:00	250.9237366	204.50058	401.7755	1075.978638	348.8034668	80.80051422	109773.0703
04-Aug-11 11:53:00	250.5956116	204.37851	399.9531	1073.329346	408.8201904	82.57732391	109610.6641
04-Aug-11 11:54:00	250.8012695	203.68802	400.9811	1074.407959	347.628479	84.32331085	109481.0156

Date/Time	Combustor Inlet Pressure B psig PWC2_ANG_COMB SHELL	CT B Load MW PWC2_ANG	ST Load MW PWC2_AN	UN#1 Grs Load MW PWC2_ANG_BL(	Ammonia Mass Flow CT B PPH PWC2_ANG_HRSG A NH3 I	CT B Fuel Oil Flow current hour lb/hr PWC2_ANG_CTA FUEL OIL CUF	CT B Fuel Oil Flow lb/hr PWC2_ANG_FO F
04-Aug-11 11:55:00	250.8625031	204.03137	402.4097	1076.773071	343.6778259	86.126297	109618.9219
04-Aug-11 11:56:00	251.0112457	204.46622	402.2428	1077.110596	376.6859131	87.87351227	109661.8828
04-Aug-11 11:57:00	250.7137451	204.2717	403.1775	1077.454956	376.9723206	89.66760254	109524.8594
04-Aug-11 11:58:00	250.6043701	204.14581	403.0106	1076.498291	332.5013123	91.45227051	109330.1484
04-Aug-11 11:59:00	250.8668823	204.19922	402.9104	1077.393921	326.3036194	93.22541046	109529.9141
04-Aug-11 12:00:00	250.6612549	204.02374	403.0106	1077.608398	406.7493591	83.10609436	109417.8438
04-Aug-11 12:01:00	250.6525116	203.9093	401.6754	1075.804077	425.1589661	1.624506235	109415.8125
04-Aug-11 12:02:00	250.7399902	204.26025	403.2242	1078.070068	352.3723145	3.397851229	109424.6719
04-Aug-11 12:03:00	250.8450012	203.90167	403.6247	1077.922241	345.2859802	5.152740479	109378.9219
04-Aug-11 12:04:00	250.9587555	204.60736	404.0787	1078.557373	338.838562	6.943234921	109560.7734
04-Aug-11 12:05:00	251.0987549	204.49677	403.7582	1078.650879	380.3282166	8.720612526	109572.0938
04-Aug-11 12:06:00	250.8843842	204.08859	404.0253	1079.291748	366.5081177	10.49421597	109511.5156
04-Aug-11 12:07:00	250.6393585	204.09241	403.8784	1078.67749	370.1063232	12.2680254	109500.5938
04-Aug-11 12:08:00	250.7049866	203.80246	404.092	1077.879395	357.7475586	14.04214573	109343.1406
04-Aug-11 12:09:00	250.3987579	203.74908	404.0587	1077.856445	367.7638245	15.84190655	109287.3594
04-Aug-11 12:10:00	250.8318787	203.87497	403.9919	1078.038574	374.0129395	17.61494446	109546.25
04-Aug-11 12:11:00	250.6350098	203.92453	404.6928	1078.886475	381.7307129	19.38803101	109425.0391
04-Aug-11 12:12:00	250.5650024	203.84315	404.3813	1078.344727	364.1802673	21.1396389	109280.0391
04-Aug-11 12:13:00	250.792511	203.68423	403.1975	1077.976563	373.3520508	22.93131828	109480.7813
04-Aug-11 12:14:00	250.6218719	203.7605	402.0425	1075.166138	372.7425842	24.7028923	109302.3516
04-Aug-11 12:15:00	250.9237518	204.27551	403.0306	1075.868042	352.7247314	26.47515106	109549.1094
04-Aug-11 12:16:00	250.8099976	204.01611	403.2242	1076.635742	375.1070862	28.24855614	109448.8828
04-Aug-11 12:17:00	250.9150085	203.95508	403.5446	1076.704346	394.0234375	30.05043411	109470.7891
04-Aug-11 12:18:00	250.9456329	204.50821	402.1427	1075.526611	377.0383911	31.79467773	109525.3281
04-Aug-11 12:19:00	250.7706299	204.0657	401.6754	1075.431274	376.7153015	33.53726196	109336.9844
04-Aug-11 12:20:00	251.1118774	204.35562	401.4418	1074.65979	374.446228	35.30999756	109437.8984
04-Aug-11 12:21:00	250.7706299	204.35179	403.0506	1076.135986	391.8424988	37.10256195	109525
04-Aug-11 12:22:00	250.7049866	203.46677	403.0106	1075.39209	382.0979004	38.85784912	109226.5469
04-Aug-11 12:23:00	250.4599915	203.90929	401.889	1074.194336	377.0457153	40.62670135	109390.7969
04-Aug-11 12:24:00	250.7750092	204.10767	401.9424	1074.804565	363.0640869	42.42964172	109339.6953
04-Aug-11 12:25:00	250.4643707	203.72237	402.4765	1075.792725	393.3184814	44.1697197	109089.9609
04-Aug-11 12:26:00	250.6656342	204.16489	403.7783	1076.597534	359.3851318	45.94055176	109394.1016
04-Aug-11 12:27:00	250.363739	203.57361	403.8784	1075.477051	371.185791	47.71058273	109201.6484
04-Aug-11 12:28:00	250.6155548	204.16193	403.2004	1075.904053	357.6985779	49.48885345	109402.8359

Date/Time	Combustor Inlet Pressure B psig PWC2_ANG_COMB SHELL	CT B Load MW PWC2_ANG	ST Load MW PWC2_AN	UN#1 Grs Load MW PWC2_ANG_BL(	Ammonia Mass Flow CT B PPH PWC2_ANG_HRSG A NH3 I	CT B Fuel Oil Flow current hour lb/hr PWC2_ANG_CTA FUEL OIL CUF	CT B Fuel Oil Flow lb/hr PWC2_ANG_FO F
04-Aug-11 12:29:00	249.8737488	203.43246	403.3443	1074.373535	367.2938538	51.28108978	109115.7734
04-Aug-11 12:30:00	250.4949951	203.88641	403.9919	1076.318237	373.0289917	53.07791901	109312.4219
04-Aug-11 12:31:00	250.2368774	203.46298	404.3991	1076.594727	389.052002	54.85068512	109147.9141
04-Aug-11 12:32:00	250.2324982	203.67279	404.5593	1076.122559	382.2006836	56.58997345	109141.1016
04-Aug-11 12:33:00	250.2237549	203.50491	404.2923	1076.78833	358.6580811	58.38895416	109249.4375
04-Aug-11 12:34:00	249.8518677	202.78014	404.0787	1075.224243	373.2345581	60.12766647	108957.8203
04-Aug-11 12:35:00	249.8737488	203.23029	402.4431	1073.912964	356.8516846	61.89201355	109223.3516
04-Aug-11 12:36:00	249.7949982	202.89459	402.0425	1073.192993	359.2456055	63.6895256	108762.7969
04-Aug-11 12:37:00	250.0487518	203.82916	403.9919	1075.228149	367.7417908	65.45404816	109136.6641
04-Aug-11 12:38:00	249.9087524	203.08533	403.5446	1074.858032	381.987793	67.22067261	109055.0859
04-Aug-11 12:39:00	249.7249908	203.19214	403.7582	1074.636841	361.7129517	68.95951843	109028.5156
04-Aug-11 12:40:00	249.4100037	202.27661	403.8918	1074.072266	376.5757751	70.75166321	108745.9453
04-Aug-11 12:41:00	249.764389	203.18832	401.9758	1072.514893	368.6376648	72.51494598	108946.8438
04-Aug-11 12:42:00	250.0837555	202.76106	401.6086	1072.064697	348.3995361	74.28013611	108957.5859
04-Aug-11 12:43:00	250.164444	202.89713	401.5271	1072.792969	363.6254272	76.0228653	109147.3594
04-Aug-11 12:44:00	250.0662537	203.10822	401.1414	1071.600342	373.9174805	77.81404877	108976.4141
04-Aug-11 12:45:00	249.8431091	202.82974	400.4738	1071.070068	368.6523438	79.56776428	108891.25
04-Aug-11 12:46:00	249.9350128	203.10059	401.1414	1072.210693	365.0027466	81.34518433	109174.0391
04-Aug-11 12:47:00	249.6899872	202.79158	401.2415	1070.727783	387.2529297	83.08131409	108820.7891
04-Aug-11 12:48:00	249.7556305	203.19977	401.108	1071.043335	384.9912109	84.87332916	108972.8125
04-Aug-11 12:49:00	249.5344543	202.58179	400.3996	1070.666992	370.7076721	86.60161591	108818.7656
04-Aug-11 12:50:00	249.8781281	202.70767	400.5072	1070.333984	364.1141968	88.37221527	108869.7734
04-Aug-11 12:51:00	249.2087402	202.55508	400.5739	1070.31189	378.4483032	90.13223267	108734.2578
04-Aug-11 12:52:00	249.6024933	203.00903	401.8089	1072.443359	361.9772949	91.8973999	109044.875
04-Aug-11 12:53:00	248.9200134	201.84937	401.1414	1069.73877	419.2843628	93.65663147	108400.8906
04-Aug-11 12:54:00	249.7468719	202.45972	401.1414	1070.112549	356.7562256	95.41864777	108832.7734
04-Aug-11 12:55:00	249.6549988	202.7153	402.4431	1072.691406	354.7734985	97.18113708	108622.6172
04-Aug-11 12:56:00	249.6812439	202.44446	401.2081	1071.648926	372.6177368	98.94035339	108640.4844
04-Aug-11 12:57:00	249.751236	202.66571	400.8743	1072.075195	356.9104309	100.7060852	108956.9375
04-Aug-11 12:58:00	248.9462433	201.93329	400.674	1071.34082	408.7246704	102.4651871	108427.4375
04-Aug-11 12:59:00	249.8212433	202.55127	401.4084	1071.812012	358.4231262	104.2559967	108831.0547
04-Aug-11 13:00:00	248.9199829	201.41449	401.2749	1069.151367	356.1907654	79.48053741	108283.2656
04-Aug-11 13:01:00	249.5893707	202.25754	401.6754	1071.295166	347.2393188	1.629657269	108744.1563
04-Aug-11 13:02:00	249.6112518	202.74582	403.5045	1073.746094	378.8815613	3.403378963	108851.6484
04-Aug-11 13:03:00	249.2700043	201.89133	401.5753	1070.08313	381.4663696	5.164020061	108419.7109
04-Aug-11 13:04:00	249.6199951	202.91745	401.1414	1070.86792	351.3148193	6.922065735	108725.1094
04-Aug-11 13:05:00	248.9243774	201.5213	402.0092	1070.743896	371.6630859	8.681159973	108394.9844

Date/Time	Combustor Inlet Pressure B psig PWC2_ANG_COMB SHELL	CT B Load MW PWC2_ANG	ST Load MW PWC2_AN	UN#1 Grs Load MW PWC2_ANG_BL(	Ammonia Mass Flow CT B PPH PWC2_ANG_HRSG A NH3 I	CT B Fuel Oil Flow current hour lb/hr PWC2_ANG_CTA FUEL OIL CUF	CT B Fuel Oil Flow lb/hr PWC2_ANG_FO F
04-Aug-11 13:06:00	249.3312531	202.12784	402.5099	1071.403931	361.1548462	10.43999481	108660.9063
04-Aug-11 13:07:00	249.2350006	202.10114	402.3296	1070.766724	357.0572815	12.19773197	108561.2344
04-Aug-11 13:08:00	249.4712524	202.20792	402.5433	1071.016724	360.508667	13.98660469	108558.3906
04-Aug-11 13:09:00	249.3487549	202.92889	402.363	1071.127197	369.2398376	15.71939945	109032.125
04-Aug-11 13:10:00	248.9112549	201.71585	402.3096	1068.859497	387.4952698	17.51074982	108475.1875
04-Aug-11 13:11:00	248.8499908	201.48315	401.9424	1068.739258	346.6151123	19.23924828	108362.4141
04-Aug-11 13:12:00	248.9549866	201.54037	401.9758	1069.284912	356.3082886	20.99384499	108496.5625
04-Aug-11 13:13:00	248.9112549	201.91803	402.2896	1070.823975	384.2128296	22.74767876	108294.5156
04-Aug-11 13:14:00	249.1781311	202.12021	403.2242	1070.890747	347.4890137	24.50554276	108602.6953
04-Aug-11 13:15:00	248.8499908	201.54037	403.8651	1070.829834	374.828064	26.26184845	108334.7344
04-Aug-11 13:16:00	249.204361	202.27277	404.0587	1071.810059	350.6245728	28.05101967	108610.2031
04-Aug-11 13:17:00	248.7974854	201.40685	403.5179	1070.196533	370.3192749	29.77809143	108257.6875
04-Aug-11 13:18:00	248.8499908	202.03247	404.5059	1070.028687	357.4832153	31.56588173	108578.8516
04-Aug-11 13:19:00	248.4649963	201.26953	404.1254	1070.852539	356.3376465	33.29168701	108284.6484
04-Aug-11 13:20:00	248.6049957	200.9491	404.5259	1070.497925	323.2487793	35.04550552	108181.7266
04-Aug-11 13:21:00	249.4799957	202.18887	404.6261	1072.485352	352.3575745	36.83170319	108541.1563
04-Aug-11 13:22:00	249.3137512	202.5589	404.1588	1072.391846	383.3022461	38.56203461	108859.1484
04-Aug-11 13:23:00	248.7974854	201.74255	403.7849	1072.203125	373.0216064	40.35571671	108577.6875
04-Aug-11 13:24:00	248.4343719	200.93382	403.7248	1070.559814	363.5708008	42.07923126	108108.8516
04-Aug-11 13:25:00	248.8106079	201.72348	403.1975	1072.182007	341.1296692	43.83739853	108538.7578
04-Aug-11 13:26:00	248.7843628	201.21994	403.0106	1071.768066	383.8529663	45.6181488	108164.6328
04-Aug-11 13:27:00	249.375	202.36813	402.4765	1071.073853	360.4205322	47.34534073	108674.9297
04-Aug-11 13:28:00	249.2174988	201.97142	402.4231	1070.726807	354.1640015	49.13669586	108629.2344
04-Aug-11 13:29:00	248.9724884	202.10876	404.1054	1072.534912	371.5823364	50.86513138	108466.4219
04-Aug-11 13:30:00	249.1649933	201.59378	403.0106	1069.881836	355.0819397	52.65157318	108137.2344
04-Aug-11 13:31:00	249.0444489	202.14774	403.7582	1072.15979	342.411499	54.3829155	108630.1797
04-Aug-11 13:32:00	249.3224945	202.49786	402.0759	1070.259521	367.2497559	56.16850662	108663.4766
04-Aug-11 13:33:00	249.1474915	202.1431	402.8904	1070.380615	395.7784729	57.91646576	108549.4141
04-Aug-11 13:34:00	248.9899902	202.70383	402.4231	1070.9823	360.9492188	59.65608215	108482.1406
04-Aug-11 13:35:00	248.9549866	201.9104	402.5833	1070.67334	350.697998	61.44391632	108518.4531
04-Aug-11 13:36:00	248.7712402	201.44879	403.7582	1070.729614	381.5471497	63.1683197	108252.2656
04-Aug-11 13:37:00	248.9549866	202.52457	404.1254	1072.005615	368.5568848	64.92726135	108729.8203
R1 AVG	249.5396142	202.57127	402.6257	1072.22431	367.6440809	52.62319705	108771.6261
04-Aug-11 13:38:00	248.1110992	200.99826	403.2954	1068.220459	390.8054199	66.68833923	108027.1953
04-Aug-11 13:39:00	249.0950012	202.02484	403.5446	1071.462036	355.6326904	68.43728638	108450.2109

Date/Time	Combustor Inlet Pressure B psig PWC2_ANG_COMB SHELL	CT B Load MW PWC2_ANG	ST Load MW PWC2_AN	UN#1 Grs Load MW PWC2_ANG_BL(	Ammonia Mass Flow CT B PPH PWC2_ANG_HRSG A NH3 I	CT B Fuel Oil Flow current hour lb/hr PWC2_ANG_CTA FUEL OIL CUF	CT B Fuel Oil Flow lb/hr PWC2_ANG_FO F
04-Aug-11 13:40:00	249.2174988	202.45589	402.8103	1071.65564	362.4913025	70.1930542	108574.8359
04-Aug-11 13:41:00	249.0906219	201.86462	403.5446	1070.856445	396.6302795	71.95381927	108456.7031
04-Aug-11 13:42:00	249.0337524	201.92566	401.9758	1068.737427	366.0748596	73.73730469	108462.4063
04-Aug-11 13:43:00	249.0950012	202.18506	401.6754	1070.394897	367.2938843	75.4659729	108728.7969
04-Aug-11 13:44:00	248.9394379	201.67303	402.0018	1070.588135	368.6711121	77.24089813	108340.6406
04-Aug-11 13:45:00	248.985611	202.08588	403.1574	1071.540283	357.7108154	78.98036194	108497.2656
04-Aug-11 13:46:00	249.0818787	201.87607	402.8236	1071.914063	365.8251953	80.7671051	108484.5703
04-Aug-11 13:47:00	249.151886	201.73492	402.6634	1071.0625	370.2752075	82.52296448	108365.9219
04-Aug-11 13:48:00	249.2962494	202.46735	402.5766	1072.556885	358.4598389	84.28249359	108692.2969
04-Aug-11 13:49:00	249.0599976	201.7807	402.9972	1072.452881	388.3984375	86.03168488	108379.3984
04-Aug-11 13:50:00	249.2437439	202.63519	403.2642	1072.027588	373.7706604	87.79571533	108642.2266
04-Aug-11 13:51:00	249.4231262	202.60849	403.2576	1072.689453	370.0255737	89.52694702	108603.8594
04-Aug-11 13:52:00	249.4318695	202.10876	403.1908	1072.427124	406.2940063	91.28502655	108445.0781
04-Aug-11 13:53:00	249.6987457	202.9747	402.343	1072.560669	359.5319824	93.04364777	108781.4219
04-Aug-11 13:54:00	249.7906342	203.04337	401.375	1071.470703	379.9316711	94.83558655	108738.0313
04-Aug-11 13:55:00	249.6549988	203.14635	402.2896	1071.749023	381.2460938	96.59674072	108850
04-Aug-11 13:56:00	249.5033264	202.42241	402.3875	1071.608765	367.0457764	98.33158875	108635.0547
04-Aug-11 13:57:00	249.5849915	202.40631	402.6768	1071.457275	369.0195313	100.0881577	108694.5
04-Aug-11 13:58:00	249.5849915	202.86404	402.2428	1070.814453	375.0924072	101.8793259	108701.5234
04-Aug-11 13:59:00	249.375	202.53218	403.0439	1071.466797	377.0237122	103.6392059	108621.8047
04-Aug-11 14:00:00	249.2306061	202.3262	402.2428	1070.665771	365.1422424	105.3993378	108710.0547
04-Aug-11 14:01:00	249.4012451	201.87985	402.7435	1070.616089	354.7808838	1.620488882	108310.8594
04-Aug-11 14:02:00	249.2583466	202.48006	403.064	1071.185791	345.8318787	3.380714655	108790.4141
04-Aug-11 14:03:00	249.3006287	203.02045	402.3362	1070.491211	374.3433838	5.16392374	108816.0625
04-Aug-11 14:04:00	249.1693726	201.64719	402.5099	1069.923706	405.7212524	6.923059464	108232.3516
04-Aug-11 14:05:00	249.0950012	202.27661	402.6901	1070.707764	358.7756348	8.648874283	108634.3047
04-Aug-11 14:06:00	249.4624939	202.38342	403.6514	1071.836792	352.5191345	10.43842411	108448.25
04-Aug-11 14:07:00	249.3166656	202.35118	402.2094	1070.08374	397.7113953	12.16914177	108618.1094
04-Aug-11 14:08:00	249.4187469	202.47498	403.0106	1071.943604	370.3633118	13.95856476	108715.3672
04-Aug-11 14:09:00	249.0031281	202.24228	401.9091	1070.212646	363.6515503	15.71628952	108586.8359
04-Aug-11 14:10:00	248.8106232	201.84935	401.5753	1069.330566	374.651825	17.47356796	108432.625
04-Aug-11 14:11:00	249.0643921	202.07443	403.1975	1070.715332	362.6749268	19.23257256	108551.8438
04-Aug-11 14:12:00	248.9681091	201.86462	403.9251	1071.045288	385.3363037	20.98892593	108368.9531
04-Aug-11 14:13:00	249.042511	201.68533	404.0253	1071.091064	383.5371704	22.77562714	108441.1016

Date/Time	Combustor Inlet Pressure B psig PWC2_ANG_COMB SHELL	CT B Load MW PWC2_ANG	ST Load MW PWC2_AN	UN#1 Grs Load MW PWC2_ANG_BL(	Ammonia Mass Flow CT B PPH PWC2_ANG_HRSG A NH3 I	CT B Fuel Oil Flow current hour lb/hr PWC2_ANG_CTA FUEL OIL CUF	CT B Fuel Oil Flow lb/hr PWC2_ANG_FO F
04-Aug-11 14:14:00	249.2437439	202.12402	403.9986	1071.337036	375.914856	24.50280571	108490.8281
04-Aug-11 14:15:00	249.1999817	202.20032	402.7035	1070.173584	363.945282	26.261446	108565
04-Aug-11 14:16:00	249.0950012	202.4826	402.6768	1070.919312	387.1060486	28.01935959	108699.5703
04-Aug-11 14:17:00	249.0775146	202.36816	403.2776	1071.253174	382.5678711	29.77970123	108641.8438
04-Aug-11 14:18:00	248.5	201.30005	403.7582	1070.677246	381.2754517	31.53537369	108195.8359
04-Aug-11 14:19:00	248.7712402	201.49841	403.3443	1069.723511	331.6274719	33.29305267	108329.25
04-Aug-11 14:20:00	248.276886	201.27335	404.0253	1069.518433	370.0475464	35.04490662	108430.875
04-Aug-11 14:21:00	248.5350037	201.56706	404.1588	1070.968994	327.1040039	36.80146408	108301.3125
04-Aug-11 14:22:00	248.5087585	201.20087	404.0253	1070.625732	328.1246948	38.55422592	108102.5547
04-Aug-11 14:23:00	248.4387512	201.75018	402.3964	1068.27771	328.0953369	40.31289673	108349.9531
04-Aug-11 14:24:00	248.342514	201.55182	402.1093	1067.584351	327.8970642	42.06252289	108186.5156
04-Aug-11 14:25:00	248.5218811	200.7774	403.0373	1068.944336	330.8858337	43.81344223	108253
04-Aug-11 14:26:00	248.6706238	202.29568	403.0573	1070.059082	328.9545288	45.56779861	108479.6719
04-Aug-11 14:27:00	248.6049957	201.69678	403.5446	1070.188965	333.6322021	47.32570267	108218.6484
04-Aug-11 14:28:00	248.208313	201.44925	403.7582	1068.547729	330.8841553	49.09444046	108236.9688
04-Aug-11 14:29:00	247.4762268	200.73547	403.2976	1068.558105	330.511322	50.82878876	107978.1797
04-Aug-11 14:30:00	248.4037476	200.96054	402.9238	1067.969727	328.418457	52.58202744	108176.75
04-Aug-11 14:31:00	248.4431305	201.14365	402.9438	1067.844727	330.3130493	54.33519363	108160.0313
04-Aug-11 14:32:00	248.7012634	201.6815	403.1441	1069.269531	328.3964233	56.1163826	108244.0859
04-Aug-11 14:33:00	248.5350037	202.07062	401.4084	1068.062256	326.8763733	57.84030151	108582.3516
04-Aug-11 14:34:00	248.4737549	201.49078	402.61	1068.203369	339.2130737	59.62810898	108041.2578
04-Aug-11 14:35:00	247.8656311	201.0788	401.6754	1067.321167	336.8853149	61.34631729	108049.9766
04-Aug-11 14:36:00	248.6837616	201.46408	401.642	1067.202881	342.2458496	63.10044479	108233.3125
04-Aug-11 14:37:00	248.5437469	201.91803	401.1414	1067.858154	338.9634399	64.8817749	108293
04-Aug-11 14:38:00	248.4693756	201.17035	402.0092	1067.377441	336.0481567	66.63570404	108151.2969
04-Aug-11 14:39:00	248.7668762	201.35727	401.4084	1066.503906	339.6463013	68.38890839	108266.3281
04-Aug-11 14:40:00	248.5699921	201.63574	402.6901	1067.625488	339.8005981	70.11205292	108181.6016
04-Aug-11 14:41:00	248.6224976	201.51367	402.343	1067.243896	339.9768066	71.89526367	108260.3594
04-Aug-11 14:42:00	248.3600006	201.38779	403.5713	1068.243408	339.9253845	73.62034607	108223.6953
04-Aug-11 14:43:00	248.1850128	201.17795	403.4244	1068.112671	336.3051758	75.37198639	108064.9609
04-Aug-11 14:44:00	248.3337402	200.76218	403.4778	1066.79187	338.0748901	77.15248108	107972.3438
04-Aug-11 14:45:00	248.1018677	201.2619	403.1441	1067.3927	334.9613037	78.90248108	108050.7422
04-Aug-11 14:46:00	248.2593842	201.38776	402.4431	1066.815674	337.1643677	80.65475464	108183.5547
04-Aug-11 14:47:00	248.1587524	200.80414	402.9171	1066.994019	335.8792725	82.38261414	107874.0781
04-Aug-11 14:48:00	248.6137543	201.50604	403.0106	1067.667358	368.3365784	84.15571594	108238.6719
04-Aug-11 14:49:00	248.2550049	201.13602	403.7449	1067.473877	414.8783569	85.87831116	108199.1563
04-Aug-11 14:50:00	248.0450134	201.08641	404.1588	1068.422607	359.1280823	87.66218567	108100.5

Date/Time	Combustor Inlet Pressure B psig PWC2_ANG_COMB SHELL	CT B Load MW PWC2_ANG	ST Load MW PWC2_AN	UN#1 Grs Load MW PWC2_ANG_BL(	Ammonia Mass Flow CT B PPH PWC2_ANG_HRSG A NH3 I	CT B Fuel Oil Flow current hour lb/hr PWC2_ANG_CTA FUEL OIL CUF	CT B Fuel Oil Flow lb/hr PWC2_ANG_FO F
04-Aug-11 14:51:00	248.0624847	201.13983	403.5446	1068.289063	362.1535645	89.41308594	108119.9609
04-Aug-11 14:52:00	247.3668823	200.56	403.1441	1067.186646	377.3394775	91.15922546	107841.1875
04-Aug-11 14:53:00	247.6775055	200.90332	403.7582	1066.046143	379.1312256	92.90705872	107995.8438
04-Aug-11 14:54:00	248.3031158	201.15887	403.618	1067.950684	365.1863403	94.62987518	108055.0703
04-Aug-11 14:55:00	247.5287476	200.86517	403.4244	1067.274414	377.6552429	96.4072876	108068.8281
04-Aug-11 14:56:00	248.0537415	200.22812	404.2923	1066.233032	345.1464844	98.15756989	107566.5469
04-Aug-11 14:57:00	247.5462494	201.05209	403.0439	1067.345093	346.8500977	99.90287018	107863.2734
04-Aug-11 14:58:00	248.2987518	201.55945	404.0253	1068.812744	356.0733032	101.6529617	108136.1016
04-Aug-11 14:59:00	247.9881287	200.32349	404.2923	1068.144165	386.782959	103.4018326	107764.75
04-Aug-11 15:00:00	248.3556213	201.35345	404.1054	1069.467896	338.1850586	105.1529465	108361.6172
04-Aug-11 15:01:00	247.7081146	200.51041	403.9251	1068.887207	378.999054	1.632451534	107811.0781
04-Aug-11 15:02:00	248.171875	201.10931	402.6968	1067.419434	388.6921387	3.383764267	108029.1797
04-Aug-11 15:03:00	248.0537415	200.33875	403.4377	1067.568237	365.59021	5.132575989	107872.7656
04-Aug-11 15:04:00	247.8612366	201.21613	404.1588	1068.003052	357.8944397	6.884967804	108159.1953
04-Aug-11 15:05:00	247.4305573	199.84198	404.5593	1067.527954	395.9359131	8.633149147	107727.2891
R2 AVG	248.6384779	201.62994	403.0284	1069.279012	358.6239894	56.89397463	108300.3998
04-Aug-11 15:06:00	247.3843689	200.2739	403.0106	1066.829102	374.3801575	10.37635231	107629.6094
04-Aug-11 15:07:00	247.8306274	200.80795	403.3243	1070.083984	304.7510071	12.12290859	107863.7656
04-Aug-11 15:08:00	248.0274963	201.42212	402.2095	1068.239624	317.9469299	13.87594032	108357.4219
04-Aug-11 15:09:00	248.1500092	200.50659	403.5446	1068.647705	402.9528809	15.62686157	107787.4844
04-Aug-11 15:10:00	248.3993683	201.72729	402.8904	1072.588257	360.3838501	17.37488937	108261.9141
04-Aug-11 15:11:00	249.2393799	202.36053	402.6167	1074.797119	349.7800903	19.13032722	108397.4609
04-Aug-11 15:12:00	249.5850067	203.16159	402.7302	1076.891357	376.97229	20.88875198	108731.2188
04-Aug-11 15:13:00	250.3462524	203.64224	403.7582	1077.881226	366.677002	22.65182877	108901.4609
04-Aug-11 15:14:00	250.4337616	204.10004	403.4778	1077.717163	395.6610107	24.41979027	109258.8906
04-Aug-11 15:15:00	250.2762451	203.39432	402.6768	1076.095947	381.7307434	26.21618271	108917.0313
04-Aug-11 15:16:00	250.7399902	204.47388	403.4378	1078.016602	382.5678711	27.95331383	109259.7344
04-Aug-11 15:17:00	250.3024902	203.37524	403.5713	1078.29126	392.2316589	29.73426056	108940.1094
04-Aug-11 15:18:00	250.5956116	204.68747	404.6261	1078.598389	420.8631592	31.48799515	109398.9141
04-Aug-11 15:19:00	249.8299866	203.56978	405.3604	1078.531616	457.3813477	33.25626373	108930.4063
04-Aug-11 15:20:00	249.4362488	202.94418	403.7582	1074.827515	434.9255981	35.04410553	108676.2891
04-Aug-11 15:21:00	249.9700012	202.8183	404.2923	1075.735352	365.9279785	36.78034973	108792

Date/Time	Combustor Inlet Pressure B psig PWC2_ANG_COMB SHELL	CT B Load MW PWC2_ANG	ST Load MW PWC2_AN	UN#1 Grs Load MW PWC2_ANG_BL(	Ammonia Mass Flow CT B PPH PWC2_ANG_HRSG A NH3 I	CT B Fuel Oil Flow current hour lb/hr PWC2_ANG_CTA FUEL OIL CUF	CT B Fuel Oil Flow lb/hr PWC2_ANG_FO F
04-Aug-11 15:22:00	249.6549988	202.83356	404.9065	1075.998779	392.7897339	38.54285812	108839.9375
04-Aug-11 15:23:00	249.8212433	202.94034	403.7048	1073.744141	423.6315918	40.33382416	108720.4688
04-Aug-11 15:24:00	249.6068726	202.51694	404.7262	1076.782593	380.4309998	42.06382751	108562.3203
04-Aug-11 15:25:00	249.9962463	203.4668	404.9265	1078.093994	338.2217407	43.82962799	109046.6172
04-Aug-11 15:26:00	249.9349976	203.2074	405.4939	1078.542969	368.0869141	45.59208679	108923.3906
04-Aug-11 15:27:00	249.5849915	202.948	405.0934	1076.39917	434.2059326	47.38579941	108929.3281
04-Aug-11 15:28:00	249.3618774	202.60086	403.9251	1075.946167	374.0055847	49.11648178	108605.5391
04-Aug-11 15:29:00	249.4449921	202.87552	403.5045	1075.53418	358.9592285	50.90715408	108795.9609
04-Aug-11 15:30:00	249.1737366	202.03629	403.0439	1073.193848	385.1013184	52.66794205	108468.5313
04-Aug-11 15:31:00	249.4231262	203.25317	403.0106	1073.690796	359.5466919	54.42665482	108697.4453
04-Aug-11 15:32:00	249.1299896	202.09351	404.092	1075.312012	353.1653442	56.18542099	108228.25
04-Aug-11 15:33:00	249.6681213	202.57794	405.08	1076.552734	345.8734436	57.91483688	108762.3438
04-Aug-11 15:34:00	249.6156158	203.27988	404.5593	1076.81604	393.9279785	59.67698669	108731.0859
04-Aug-11 15:35:00	249.4100037	202.23846	404.6261	1075.912842	404.6491699	61.46786499	108571.3047
04-Aug-11 15:36:00	249.1999817	202.21558	404.6127	1075.697266	364.8852539	63.19496918	108516.75
04-Aug-11 15:37:00	249.5849915	202.56653	405.2536	1076.200928	344.6471558	64.98530579	108608.4531
04-Aug-11 15:38:00	249.5631104	202.79541	404.8264	1076.854248	408.8568726	66.71498108	108682.1563
04-Aug-11 15:39:00	249.375	202.0668	405.6274	1075.754517	407.1972961	68.50366974	108549.1719
04-Aug-11 15:40:00	249.4100037	203.04718	405.8611	1076.560425	376.157196	70.26308441	108700.0469
04-Aug-11 15:41:00	248.9506226	201.97525	405.0266	1074.05127	377.7874146	72.02078247	108241.8359
04-Aug-11 15:42:00	249.1533203	202.19183	405.0341	1074.035767	379.2780762	73.7536087	108495.1797
04-Aug-11 15:43:00	249.2174835	201.75018	405.6274	1074.903809	398.1063232	75.53442383	108446.4922
04-Aug-11 15:44:00	249.265625	201.95998	405.3604	1075.478882	399.9127502	77.29055786	108456.7422
04-Aug-11 15:45:00	249.2787476	201.72348	405.6274	1074.601563	393.7810974	79.04702759	108280.1484
04-Aug-11 15:46:00	248.7799988	202.23083	405.761	1074.484253	384.065918	80.80342102	108584.1484
04-Aug-11 15:47:00	248.9899902	201.78833	406.6956	1075.231934	365.4140015	82.56349182	108278.4531
04-Aug-11 15:48:00	248.3381348	202.22702	406.2283	1072.932617	333.9920044	84.31719971	108351.9063
04-Aug-11 15:49:00	249.0075073	202.98233	405.6942	1071.317139	319.195282	86.07589722	108672.3984
04-Aug-11 15:50:00	249.4187469	202.82974	405.7943	1070.536011	354.0612793	87.83576965	108634.6094
04-Aug-11 15:51:00	249.8212433	204.05426	405.3604	1073.887207	350.5658264	89.5978241	109132.7109
04-Aug-11 15:52:00	249.9568787	202.82974	404.8264	1072.32605	340.0795898	91.36401367	108757.1016
04-Aug-11 15:53:00	250.5999908	204.08859	404.4592	1073.650757	337.8692627	93.1309433	109243.6172
04-Aug-11 15:54:00	250.8100128	204.50439	405.0934	1074.781738	340.0942993	94.90123749	109448.6328
04-Aug-11 15:55:00	250.257782	204.88078	405.6571	1075.859985	358.8800659	96.69218445	109633.8594
04-Aug-11 15:56:00	250.1887512	203.63083	404.8264	1075.998657	348.7153015	98.44965363	108993.8516
04-Aug-11 15:57:00	249.7600098	204.51584	404.8264	1076.344849	337.7444153	100.216774	109187.4766
04-Aug-11 15:58:00	250.4366608	204.72479	404.945	1076.325439	343.5276794	101.9961472	109544.9297

Date/Time	Combustor Inlet Pressure B psig PWC2_ANG_COMB SHELL	CT B Load MW PWC2_ANG	ST Load MW PWC2_AN	UN#1 Grs Load MW PWC2_ANG_BL(	Ammonia Mass Flow CT B PPH PWC2_ANG_HRSG A NH3 I	CT B Fuel Oil Flow current hour lb/hr PWC2_ANG_CTA FUEL OIL CUF	CT B Fuel Oil Flow lb/hr PWC2_ANG_FO F
04-Aug-11 15:59:00	249.8212585	203.75668	404.2923	1076.307617	366.3833008	103.7584686	109065.2422
04-Aug-11 16:00:00	250.6875	204.64172	404.2923	1078.060547	306.4473267	105.5289917	109382.6094
04-Aug-11 16:01:00	250.901886	204.27551	405.1268	1077.445435	334.0507813	1.653794289	109307.4844
04-Aug-11 16:02:00	251.4487457	206.64825	405.2269	1080.831787	344.7792969	3.430942059	110013.3906
04-Aug-11 16:03:00	251.125	205.08423	405.0934	1079.56543	377.6331787	5.21058321	109544.3359
04-Aug-11 16:04:00	251.1424866	205.66405	404.586	1081.530029	330.7536011	6.986773491	109787.4844
04-Aug-11 16:05:00	251.3568726	205.68314	404.4926	1080.710815	337.2010498	8.76550293	109853.3828
04-Aug-11 16:06:00	251.8206329	206.54524	404.8264	1082.552368	369.1810608	10.54943562	110200.75
04-Aug-11 16:07:00	251.6412506	205.50003	404.8264	1082.505615	319.6872864	12.35663891	109734.9219
04-Aug-11 16:08:00	251.7316742	206.32527	405.1112	1084.135376	316.1453552	14.13033581	110134.6563
04-Aug-11 16:09:00	251.6587524	206.2439	406.1615	1085.676514	324.9230347	15.89487267	110125.3594
04-Aug-11 16:10:00	251.3272247	206.04045	406.1615	1086.092041	347.6594849	17.70025826	109957.6172
04-Aug-11 16:11:00	251.6937561	205.82809	405.9946	1085.643188	333.4559631	19.45861053	109919.5
04-Aug-11 16:12:00	251.7068787	205.8815	406.1615	1085.909302	325.2608643	21.23808289	109958.1406
04-Aug-11 16:13:00	252.3718719	206.45752	406.028	1085.158691	330.2175598	23.02173042	110132
04-Aug-11 16:14:00	252.4899902	207.43408	406.6956	1087.591553	318.4756165	24.80520058	110435.0313
04-Aug-11 16:15:00	252.4812469	207.30057	406.9292	1087.512451	342.3927307	26.59779358	110625.1797
04-Aug-11 16:16:00	251.7331238	206.22101	407.1962	1087.095703	343.1343994	28.38534737	109973.4531
04-Aug-11 16:17:00	251.842514	207.15942	407.4432	1086.911621	321.9049377	30.18032265	110349.5781
04-Aug-11 16:18:00	252.6606293	206.46896	406.996	1087.381714	330.7169189	31.98640442	110142.6484
04-Aug-11 16:19:00	251.9475098	206.54144	406.9626	1088.291504	333.6322327	33.76700974	109912.1016
04-Aug-11 16:20:00	252.3850098	207.34253	406.8958	1089.109863	329.3437195	35.55267334	110372.1641
04-Aug-11 16:21:00	253.1812439	207.38068	407.1628	1088.449829	349.5671387	37.31216049	110511.7188
04-Aug-11 16:22:00	253.1418762	207.70111	407.2296	1089.189941	349.545105	39.132061	110538.0625
04-Aug-11 16:23:00	253.1812439	208.92563	406.8958	1090.942871	337.2304077	40.92742538	110998.8984
04-Aug-11 16:24:00	252.4681244	206.8924	407.1094	1090.710083	348.9282837	42.72138214	110342.1953
04-Aug-11 16:25:00	252.1399994	206.7627	407.2296	1091.543579	313.4234314	44.47966003	110516.4375
04-Aug-11 16:26:00	251.8250122	206.62537	406.295	1090.75	311.5435791	46.29916	110424.5703
04-Aug-11 16:27:00	251.125	205.36652	406.6021	1091.67041	311.653717	48.05542755	109939.9063
04-Aug-11 16:28:00	251.1162415	205.94635	406.2616	1092.67749	292.7961121	49.86729813	110030.2188
04-Aug-11 16:29:00	250.90625	204.95071	405.6274	1091.085815	299.9485168	51.64641953	109623.3438
04-Aug-11 16:30:00	250.7399902	205.74417	405.6274	1091.09729	292.3775635	53.42481613	110063.4453
04-Aug-11 16:31:00	250.4337463	204.61502	405.6274	1090.093018	322.1399841	55.20527649	109399.8203
04-Aug-11 16:32:00	250.3374939	205.15289	405.4138	1089.983276	304.5527344	56.94932175	109664.9297
04-Aug-11 16:33:00	250.8625031	205.25208	406.7623	1092.703247	302.6434937	58.75588608	109623.6406
04-Aug-11 16:34:00	251.6237488	205.56107	407.2296	1091.992798	322.5805359	60.53388596	109771.625
04-Aug-11 16:35:00	251.2562408	206.59483	405.3604	1091.781006	341.188446	62.31376648	110276.2891

Date/Time	Combustor Inlet Pressure B psig PWC2_ANG_COMB SHELL	CT B Load MW PWC2_ANG	ST Load MW PWC2_AN	UN#1 Grs Load MW PWC2_ANG_BL(	Ammonia Mass Flow CT B PPH PWC2_ANG_HRSG A NH3 I	CT B Fuel Oil Flow current hour lb/hr PWC2_ANG_CTA FUEL OIL CUF	CT B Fuel Oil Flow lb/hr PWC2_ANG_FO F
04-Aug-11 16:36:00	251.7938843	205.48096	405.6571	1090.2771	320.9234009	64.09503937	109579.25
04-Aug-11 16:37:00	251.1074982	206.51855	406.8558	1094.068848	323.4690857	65.87194061	109674.8359
04-Aug-11 16:38:00	251.1731262	206.54526	407.7637	1096.58667	377.4129028	67.64730072	109874.4922
R3 AVG	250.5852085	204.51051	405.5167	1081.263156	351.7618637	52.88303818	109368.7825
04-Aug-11 16:39:00	251.9037476	207.86514	407.4432	1098.657959	361.4559326	69.43593597	110393.9219
04-Aug-11 16:40:00	252.8137512	207.43027	407.2964	1098.865845	360.2883606	71.22561646	110444.4297
04-Aug-11 16:41:00	252.7962494	207.42642	407.5768	1097.011963	337.8766174	73.01421356	110444.1719
04-Aug-11 16:42:00	253.0237427	207.61719	407.8304	1096.340576	321.0164185	74.80509949	110527.2813
04-Aug-11 16:43:00	252.3500061	207.91092	407.7303	1097.313354	340.4321289	76.59693146	110785.1563
04-Aug-11 16:44:00	252.2231293	206.30873	408.4312	1096.929932	353.0845642	78.38883972	109962.625
04-Aug-11 16:45:00	251.2212372	206.30493	408.4513	1096.642822	329.7402344	80.1678009	109776.5156
04-Aug-11 16:46:00	251.9868774	207.42645	408.6783	1096.931885	328.0806885	81.95168304	110309.8984
04-Aug-11 16:47:00	251.8775024	207.24716	407.0227	1096.253784	386.8196411	83.74162292	110596.8125
04-Aug-11 16:48:00	252.5950012	206.41937	407.1428	1094.161499	361.4118652	85.53251648	110252.0391
04-Aug-11 16:49:00	251.6412354	206.49564	407.0894	1093.919189	316.3166809	87.31351471	109886.2656
04-Aug-11 16:50:00	251.9168549	206.73218	407.1295	1094.418945	320.1939697	89.09828186	110334.3984
04-Aug-11 16:51:00	252.6212616	206.12946	406.9626	1093.527344	360.7436523	90.8848114	109886.2969
04-Aug-11 16:52:00	251.8643799	206.46512	407.7637	1095.256226	353.0184631	92.63510132	109883.3047
04-Aug-11 16:53:00	252.5600128	207.19374	408.0307	1095.956177	345.1905518	94.41903687	110277.8594
04-Aug-11 16:54:00	253.8156128	207.88422	408.1108	1097.803467	375.0777588	96.20912933	110679.1797
04-Aug-11 16:55:00	253.7149963	207.25098	407.8638	1098.234619	417.0519714	97.99821472	110362.7344
04-Aug-11 16:56:00	254.0431213	209.1011	407.3498	1099.305542	355.8015747	99.82070923	111002.1719
04-Aug-11 16:57:00	254.1174927	209.00574	407.7637	1098.226929	373.4328308	101.5909805	110829.2656
04-Aug-11 16:58:00	252.1399994	207.09839	407.9773	1096.258545	429.0949707	103.3790131	110416.2891
04-Aug-11 16:59:00	252.8866577	207.99016	407.6509	1097.031738	373.0183716	105.1852188	110625.3984
04-Aug-11 17:00:00	252.9187469	207.30057	408.2977	1096.827881	373.6164246	106.9601898	110396.0938
04-Aug-11 17:01:00	253.0675049	207.40356	408.5114	1095.846558	383.2434692	1.639529467	110520.3281
04-Aug-11 17:02:00	253.5137482	207.42264	408.745	1096.042969	377.6845703	3.460038424	110470.1016
04-Aug-11 17:03:00	253.5575104	208.08258	408.5781	1097.647095	364.6209106	5.21935463	110572.2813
04-Aug-11 17:04:00	253.8724976	208.63953	408.5781	1098.455811	364.9880371	7.038215637	111081.3906
04-Aug-11 17:05:00	253.2556305	208.07114	408.745	1096.748657	384.3376465	8.811052322	110637.6172
04-Aug-11 17:06:00	253.308136	207.85751	408.6983	1096.281494	360.0900574	10.60280609	110590.4375
04-Aug-11 17:07:00	253.3824921	207.73163	409.5795	1097.624268	345.5650024	12.42441463	110636.4922
04-Aug-11 17:08:00	253.5793762	207.75452	409.9066	1098.467163	360.9859924	14.21705723	110598.6406
04-Aug-11 17:09:00	253.4350128	208.25803	410.1135	1098.059082	390.0874023	15.98072433	110790.8125

Date/Time	Combustor Inlet Pressure B psig PWC2_ANG_COMB SHELL	CT B Load MW PWC2_ANG	ST Load MW PWC2_AN	UN#1 Grs Load MW PWC2_ANG_BL(	Ammonia Mass Flow CT B PPH PWC2_ANG_HRSG A NH3 I	CT B Fuel Oil Flow current hour lb/hr PWC2_ANG_CTA FUEL OIL CUF	CT B Fuel Oil Flow lb/hr PWC2_ANG_FO F
04-Aug-11 17:10:00	253.3649902	208.07495	410.1135	1097.460205	372.5223083	17.8064003	110828.8828
04-Aug-11 17:11:00	252.9712524	206.98395	409.98	1096.451172	376.6785583	19.53822899	110413.3438
04-Aug-11 17:12:00	253.1637421	208.18939	409.6462	1096.935669	338.9927979	21.33005905	110777.5391
04-Aug-11 17:13:00	252.7350006	207.05261	409.5795	1095.903809	337.4507141	23.15221405	110212.8047
04-Aug-11 17:14:00	252.7087402	207.84225	409.8465	1096.689575	369.7391663	24.9101162	110644.2422
04-Aug-11 17:15:00	253.1768646	208.0864	409.446	1096.9375	349.6552734	26.72327042	110753.1719
04-Aug-11 17:16:00	252.4681091	207.46838	409.7531	1096.55603	379.0797729	28.52362061	110441.625
04-Aug-11 17:17:00	252.8050079	207.4646	409.8131	1095.97522	346.9676208	30.31387138	110528.7344
04-Aug-11 17:18:00	252.6999817	207.40356	409.5795	1094.900513	360.8317261	32.07563019	110642.9844
04-Aug-11 17:19:00	251.8775024	206.427	408.9119	1092.119629	400.191803	33.89434814	110284.6484
04-Aug-11 17:20:00	251.9125061	206.08368	408.7784	1091.205933	366.0160522	35.67829514	109955.2266
04-Aug-11 17:21:00	251.9912567	206.52615	408.5114	1091.680908	342.9434814	37.46146774	110230.0938
04-Aug-11 17:22:00	251.6631317	206.22864	408.2977	1090.380127	349.7286987	39.24784851	110108.4453
04-Aug-11 17:23:00	250.7049866	205.66406	407.9773	1089.361572	407.4176025	40.99617004	109850.6406
04-Aug-11 17:24:00	251.5100098	205.7251	408.271	1089.456909	335.7470703	42.806633	109979.7656
04-Aug-11 17:25:00	251.4049988	205.92346	408.3244	1088.934326	344.8086853	44.58375168	109878.3516
04-Aug-11 17:26:00	251.1468811	204.96597	407.5968	1086.124756	373.4328003	46.36464691	109651.1328
04-Aug-11 17:27:00	251.4399872	205.64117	407.4833	1085.7052	349.5671387	48.14307022	109945.125
04-Aug-11 17:28:00	251.2387543	205.26733	407.283	1084.944092	367.7785034	49.92329407	109775.5234
04-Aug-11 17:29:00	251.2650146	205.43515	407.0427	1086.637939	358.7022095	51.7015419	109842.6875
04-Aug-11 17:30:00	250.5956116	205.43515	407.2296	1087.028931	335.0641479	53.48191071	109940.3047
04-Aug-11 17:31:00	250.6787567	204.22211	407.4566	1087.465698	329.3143311	55.29046249	109462.9922
04-Aug-11 17:32:00	250.7662659	204.99268	407.4432	1088.671143	321.3395386	57.06423187	109686.8906
04-Aug-11 17:33:00	251.2649994	205.14906	407.3965	1089.53418	327.3096313	58.84056854	109681.8516
04-Aug-11 17:34:00	250.5562439	205.61444	406.996	1087.899658	353.8409424	60.62133789	110108.5234
04-Aug-11 17:35:00	246.9731293	199.3698	406.8291	1081.936279	370.5542603	62.39366531	106944.1641
04-Aug-11 17:36:00	232.1861115	188.18767	406.1615	1068.373901	304.304718	64.07472229	101628.1719
04-Aug-11 17:37:00	221.1299896	176.58081	404.6928	1057.295288	186.56073	65.68244171	97163.75
04-Aug-11 17:38:00	214.6900024	170.47729	403.2242	1050.131226	113.0397034	67.22706604	94489.36719
04-Aug-11 17:39:00	213.1893768	169.51218	401.7422	1047.092773	81.01558685	68.75601196	94132.21094
04-Aug-11 17:40:00	206.6618805	159.9411	400.8743	1035.997803	128.5267029	70.25160217	90569.67969
04-Aug-11 17:41:00	197.2172241	148.69452	398.6194	1022.523865	130.7484589	71.6818161	86961.8125
04-Aug-11 17:42:00	187.8362427	138.60168	396.3215	1009.984375	88.22671509	73.04116058	83563.50781
04-Aug-11 17:43:00	178.0056152	127.06984	394.5524	997.0878906	-0.274652481	74.35881042	79714.13281
04-Aug-11 17:44:00	172.6627808	115.84743	393.8366	984.3531494	-0.223236084	75.62614441	75680.17969
04-Aug-11 17:45:00	180.25	104.6814	393.4509	972.9370117	-0.281997681	76.81293488	72356.66406
04-Aug-11 17:46:00	176.1725006	93.450912	393.5511	962.3969727	-0.259962082	77.94620514	69246.03125

Date/Time	Combustor Inlet Pressure B psig PWC2_ANG_COMB SHELL	CT B Load MW PWC2_ANG	ST Load MW PWC2_AN	UN#1 Grs Load MW PWC2_ANG_BL(	Ammonia Mass Flow CT B PPH PWC2_ANG_HRSG A NH3 I	CT B Fuel Oil Flow current hour lb/hr PWC2_ANG_CTA FUEL OIL CUF	CT B Fuel Oil Flow lb/hr PWC2_ANG_FO F
04-Aug-11 17:47:00	175.7262573	92.394257	391.0811	959.0925293	-0.274652481	79.05928802	68303.02344
04-Aug-11 17:48:00	175.5512543	92.493423	389.2986	957.9099731	-0.259962082	80.15821838	65143.60156
04-Aug-11 17:49:00	174.6937561	88.88855	387.5629	952.4120483	-0.281997681	81.18976593	64005.66797
04-Aug-11 17:50:00	159.7706146	89.395889	385.5402	951.7893066	-0.274652481	82.15597534	51314.89063
04-Aug-11 17:51:00	154.6912537	95.823669	384.8459	956.3554688	-0.245271683	82.51589203	0
04-Aug-11 17:52:00	154.4899902	90.490723	383.4106	948.5686646	-0.281997681	82.51589203	0
04-Aug-11 17:53:00	152.5299988	83.242798	383.2771	940.7294922	-0.252616882	82.51589203	0
04-Aug-11 17:54:00	154.9187469	93.443298	380.5067	950.046936	-0.281997681	82.51589203	0
04-Aug-11 17:55:00	154.1750031	92.245476	379.3585	948.8147583	-0.259962082	82.51589203	0
04-Aug-11 17:56:00	154.0787506	90.578461	378.8912	947.1000977	-0.281997681	82.51589203	0
04-Aug-11 17:57:00	154.3150024	93.260193	377.2556	947.4090576	-0.281997681	82.51589203	0
04-Aug-11 17:58:00	153.3175049	89.52179	376.321	943.2033691	-0.267307281	82.51589203	0
04-Aug-11 17:59:00	153.3962555	89.212799	375.7202	942.5805664	-0.274652481	82.51589203	0
04-Aug-11 18:00:00	153.2727814	89.327667	375.2396	942.9797974	-0.255881429	82.51589203	0
04-Aug-11 18:01:00	153.4181213	89.292908	374.7389	942.2095947	-0.274652481	0	0
04-Aug-11 18:02:00	153.4225159	86.111443	375.5065	940.649292	-0.252616882	0	0
04-Aug-11 18:03:00	154.4199982	87.866211	375.5065	941.7938232	-0.281997681	0	0
04-Aug-11 18:04:00	154.8093719	89.800262	374.7055	943.1966553	-0.245271683	0	0
04-Aug-11 18:05:00	155.089386	89.300537	374.4385	943.1403809	-0.274652481	0	0
04-Aug-11 18:06:00	155.1812439	88.88855	373.9578	944.0006104	-0.281997681	0	0
04-Aug-11 18:07:00	155.1725006	89.308167	373.9712	942.3660278	-0.267307281	0	0
04-Aug-11 18:08:00	155.1112518	90.33432	373.6708	942.0598755	-0.223236084	0	0
04-Aug-11 18:09:00	155.0718842	89.23568	373.9044	942.2744751	-0.259962082	0	0
04-Aug-11 18:10:00	155.0456238	89.033493	374.4385	943.8041992	-0.230581284	0	0
04-Aug-11 18:11:00	154.5206299	91.08963	374.6387	944.418335	-0.245271683	0	0
04-Aug-11 18:12:00	154.1827698	88.262939	374.9132	942.2931519	-0.281997681	0	0
04-Aug-11 18:13:00	154.6824951	88.499451	374.2382	942.4880981	-0.237926483	0	0
04-Aug-11 18:14:00	155.0412598	88.980095	373.9044	942.5109863	-0.259962082	0	0
04-Aug-11 18:15:00	155.0675049	90.155029	373.3704	943.0831909	-0.230581284	0	0
04-Aug-11 18:16:00	155.1861115	89.697266	373.5187	943.0145264	-0.281997681	0	0
04-Aug-11 18:17:00	155.0850067	90.124512	374.118	943.8995361	-0.223236084	0	0
04-Aug-11 18:18:00	155.0062561	90.26947	373.9645	944.0883789	-0.245271683	0	0
04-Aug-11 18:19:00	155.0850067	89.643845	373.9044	942.1705322	-0.281997681	0	0
04-Aug-11 18:20:00	155.0893707	89.750664	373.8043	942.137146	-0.223236084	0	0
04-Aug-11 18:21:00	155.3387451	94.004059	373.357	946.1759644	-0.281997681	0	0
04-Aug-11 18:22:00	153.7331238	86.927795	373.6374	940.3518677	-0.259962082	0	0
04-Aug-11 18:23:00	154.5249939	88.308716	373.6374	942.0913696	-0.281997681	0	0

Date/Time	Combustor Inlet Pressure B psig PWC2_ANG_COMB SHELL	CT B Load MW PWC2_ANG	ST Load MW PWC2_AN	UN#1 Grs Load MW PWC2_ANG_BL(	Ammonia Mass Flow CT B PPH PWC2_ANG_HRSG A NH3 I	CT B Fuel Oil Flow current hour lb/hr PWC2_ANG_CTA FUEL OIL CUF	CT B Fuel Oil Flow lb/hr PWC2_ANG_FO F
04-Aug-11 18:24:00	154.8575134	89.186096	373.4238	942.5872803	-0.267307281	0	0
04-Aug-11 18:25:00	155.0893707	89.613335	373.6374	943.472229	-0.281997681	0	0
04-Aug-11 18:26:00	155.2118683	90.261841	373.8376	944.5957031	-0.281997681	0	0
04-Aug-11 18:27:00	155.1943817	89.571373	373.3704	943.4865723	-0.259962082	0	0
04-Aug-11 18:28:00	155.1374969	90.116882	373.2903	943.5322876	-0.274652481	0	0
04-Aug-11 18:29:00	155.0500031	89.437866	373.1033	943.9490967	-0.252616882	0	0
04-Aug-11 18:30:00	155.0500031	90.002441	373.1033	944.0979004	-0.281997681	0	0
04-Aug-11 18:31:00	156.1699982	96.406761	373.2178	950.3278198	-0.281997681	0	0
04-Aug-11 18:32:00	154.5250092	92.199707	373.3704	945.7458496	-0.223236084	0	0
04-Aug-11 18:33:00	153.2649994	91.009514	373.7709	942.2401123	-0.252616882	0	0
04-Aug-11 18:34:00	153.9387512	90.361023	373.1033	944.0939941	-0.223236084	0	0
04-Aug-11 18:35:00	153.8293762	90.692902	373.2035	943.9310303	-0.245271683	0	0
04-Aug-11 18:36:00	157.941864	101.26724	372.8362	953.7299805	-0.281997681	0	0
04-Aug-11 18:37:00	164.8762512	116.9113	373.3036	969.8356323	-0.281997681	0	0
04-Aug-11 18:38:00	173.3812561	135.41641	372.7361	987.0131226	-0.245271683	0	0
04-Aug-11 18:39:00	183.4350128	148.50082	372.0619	999.8553467	-0.230581284	0	0
04-Aug-11 18:40:00	184.9487457	149.64523	371.6013	999.6359863	54.02165985	0	0
04-Aug-11 18:41:00	192.9584961	160.54993	371.7682	1011.46167	193.9980011	0	0
04-Aug-11 18:42:00	199.0975037	167.99011	372.6694	1020.287842	311.3232727	0	0
04-Aug-11 18:43:00	200.0074921	169.90509	374.572	1023.859436	235.6726837	0	0
04-Aug-11 18:44:00	210.2900085	182.92847	376.7883	1038.900757	218.4558105	0	0
04-Aug-11 18:45:00	220.9375	195.81451	379.3585	1054.986328	226.7285309	0	0
04-Aug-11 18:46:00	223.2474976	198.95782	382.7097	1061.832764	193.8452606	0	0
04-Aug-11 18:47:00	225.7149963	203.00902	386.4547	1068.876709	151.8122711	0	0
04-Aug-11 18:48:00	238.2099915	217.5354	389.7659	1085.890137	134.3058472	0	0
04-Aug-11 18:49:00	256.4333191	231.77016	393.6883	1104.417725	170.8395538	0	0
04-Aug-11 18:50:00	257.8581238	232.51572	398.6113	1110.394897	210.7054596	0	0
04-Aug-11 18:51:00	258.7724915	234.32387	402.3897	1115.977661	213.0773468	0	0
04-Aug-11 18:52:00	259.2318726	235.74677	405.6274	1121.187622	221.1623077	0	0
04-Aug-11 18:53:00	259.7087402	237.74567	408.5781	1126.293579	235.4376831	0	0
04-Aug-11 18:54:00	260.198761	238.7184	410.4473	1129.377686	261.2420044	0	0
04-Aug-11 18:55:00	260.5137634	240.08789	413.3045	1133.817993	280.5548706	0	0
04-Aug-11 18:56:00	260.6669006	241.2056	415.5008	1136.608521	274.4526062	0	0
04-Aug-11 18:57:00	261.1043701	242.17834	417.0363	1138.932495	283.1176758	0	0
04-Aug-11 18:58:00	261.3624878	242.89551	418.5783	1141.134644	270.7736206	0	0
04-Aug-11 18:59:00	261.7572327	243.80765	419.8571	1144.129639	293.7238464	0	0
04-Aug-11 19:00:00	261.8831177	244.24973	421.3221	1146.749878	286.1504517	0	0

Date/Time	Combustor Inlet Pressure B psig PWC2_ANG_COMB SHELL	CT B Load MW PWC2_ANG	ST Load MW PWC2_AN	UN#1 Grs Load MW PWC2_ANG_BL(	Ammonia Mass Flow CT B PPH PWC2_ANG_HRSG A NH3	CT B Fuel Oil Flow current hour lb/hr PWC2_ANG_CTA FUEL OIL CUF	CT B Fuel Oil Flow lb/hr PWC2_ANG_FO F

APPENDIX E
ANALYTICAL DATA

Certificate of Analysis

SINCE 1985
Quality Controlled Through Analysis

10630 FALLSTONE RD HOUSTON, TEXAS 77099
P.O. BOX 741905, HOUSTON, TEXAS 77274

TEL: (281) 495-2400
FAX: (281) 495-2410

CLIENT:	Source Testing & Consulting Services, Inc	REQUESTED BY:	Mr. Aaron Harden
SAMPLE:	CT-2A Fuel Sample from FPL WCEC Site	REPORT DATE:	August 19, 2011
LABORATORY NO:	64338	PURCHASE ORDER NO:	201151

TEST RESULT

Parameter	*Results*
Nitrogen, Organically Bound, by Chemiluminescence, ASTM D 4629, ppm	2.7
Sulfur by X-Ray Fluorescence Spectroscopy, ASTM D 4294, wt%	<0.01

Heat of Combustion of Liquid Hydrocarbon Fuel by Bomb Calorimeter, ASTM D 4809

	Results, BTU/lb
Gross Heat of Combustion	19,578
Net Heat of Combustion	18,349

Carbon, Hydrogen, and Nitrogen in Petroleum Products, Instrumental, ASTM D 5291.a

	Results, wt. %
Carbon	85.93
Hydrogen	13.47
Nitrogen	<0.30

Respectfully submitted
For Texas OilTech Laboratories, L.P.

A. Phillip Sorurbakhsh
Director of Laboratory Operations

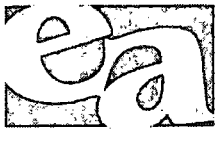
Source Testing and Consulting Services, Inc.

1100 Purple Glory Drive
Apex, NC 27502

Mitsubishi/Black & Veatch - CT-2A
Florida Power & Light
Loxahatchee, FL
Client# MIT-2A-OIL

Analytical Report
(0811-59B)

EPA CTM-027
Ammonia



Enthalpy Analytical, Inc.
Phone: (919) 850 - 4392 / Fax: (919) 850 - 9012 / www.enthalpy.com
2202 Ellis Road Durham, NC 27703 - 5518

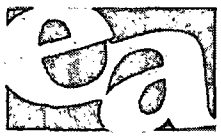
I certify that to the best of my knowledge all analytical data presented in this report:

- Have been checked for completeness
- Are accurate, error-free, and legible
- Have been conducted in accordance with approved protocol, and that all deviations and analytical problems are summarized in the appropriate narrative(s)

This analytical report was prepared in Portable Document Format (.PDF) and contains ??? pages.

Report Issued: xx/xx/xxxx

Summary of Results



Company	STACS, Inc.
Analyst	AMP
Parameters	EPA CTM-027

Client #	MIT-2A-OIL
Job #	0811-59
# Samples	3 runs & 1 blank

Compound	Sample ID / Catch Weight (ug)		
	U2A-Oil-Base-R1	***U2A-Oil-Base-R2***	***U2A-Oil-Base-R3***
Ammonia	838	341	343
	H2SO4 RB		
Ammonia	4.61 J		

Results

Company	STACS, Inc.
Analyst	AMP
Parameters	EPA CTM-027

Client #	MIT-2A-OIL
Job #	0811-59
# Samples	3 runs & 1 blank

MDL 0.0366 (ug/mL)
LOQ 0.235 (ug/mL)
Compound Ammonia

Lower Curve Limit 0.235 (ug/mL)
Upper Curve Limit 11.1 (ug/mL)

Sample ID	Lab ID # 1	Lab ID # 2	Analysis Method	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ug/mL)	Conc # 2 (ug/mL)	% Diff Conc	Avg Conc (ug/mL)	DF	Vol (mL)	Catch Weight (ug)	Qual
U2A-Oil-Base-R1 FH-I1-I2	081-5601.D	081-5602.D	AMMONIA.M	4.79	4.80	0.1	1.82	1.81	0.3	1.81	1	460	834	
U2A-Oil-Base-R1 I3	084-6301.D	084-6302.D	AMMONIA.M	4.82	4.83	0.2	0.0448	0.0484	3.9	0.0466	1	81.0	3.77	J
													838	
U2A-Oil-Base-R2 FH	085-6401.D	085-6402.D	AMMONIA.M	4.79	4.79	0.0	3.14	3.14	0.0	3.14	1	102	320	
U2A-Oil-Base-R2 I1	086-6501.D	086-6502.D	AMMONIA.M	4.80	4.78	0.3	0.0739	0.0867	8.0	0.0803	1	202	16.2	J
U2A-Oil-Base-R2 I3	087-6601.D	087-6602.D	AMMONIA.M	4.79	NA	NA	0.0369	0.0366	0.4	0.0368	1	130	4.78	J
U2A-Oil-Base-R2 I3z	088-6701.D	088-6702.D	AMMONIA.M	NA	NA	NA	0.0366	0.0366	0.0	0.0366	1	71.0	2.60	ND
													341	
U2A-Oil-Base-R3 FH-I1-I2	089-6801.D	089-6802.D	AMMONIA.M	4.79	4.80	0.1	0.868	0.869	0.1	0.869	1	395	343	
U2A-Oil-Base-R3 I3	090-6901.D	090-6902.D	AMMONIA.M	NA	NA	NA	0.0366	0.0366	0.0	0.0366	1	63.0	2.31	ND
													343	
H2SO4 RB	091-7001.D	091-7002.D	AMMONIA.M	4.77	4.78	0.2	0.0423	0.0446	2.7	0.0435	1	106	4.61	J
0.04N H2SO4 RB	039-0901.D	039-0902.D	AMMONIA.M	NA	NA	NA	0.0366	0.0366	0.0	0.0366	1	1.00	0.0366	ND
0.04N H2SO4 RB	039-6001.D	039-6002.D	AMMONIA.M	NA	NA	NA	0.0366	0.0366	0.0	0.0366	1	1.00	0.0366	ND
MS / R1-FH-I1-I2	082-6101.D	082-6102.D	AMMONIA.M	4.81	4.81	0.0	5.24	5.25	0.0	5.24	1	0.800	4.19	
												Spike Amount (ug)	2.83	
												Native Amount (ug)	1.40	
												Spike Recovery (%)	98.8%	

Company	STACS, Inc.
Analyst	AMP
Parameters	EPA CTM-027

Client #	MIT-2A-OIL
Job #	0811-59
# Samples	3 runs & 1 blank

MDL 0.0366 (ug/mL)
LOQ 0.235 (ug/mL)
Compound Ammonia

Lower Curve Limit 0.235 (ug/mL)
Upper Curve Limit 11.1 (ug/mL)

Sample ID	Lab ID # 1	Lab ID # 2	Analysis Method	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ug/mL)	Conc # 2 (ug/mL)	% Diff Conc	Avg Conc (ug/mL)	DF	Vol (mL)	Catch Weight (ug)	Qual
MSD / R1-FH-I1-I2	083-6201.D	083-6202.D	AMMONIA.M	4.81	4.81	0.0	5.32	5.32	0.0	5.32	1	0.800	4.26	
												Spike Amount (ug)	2.83	
												Native Amount (ug)	1.40	
												Spike Recovery (%)	101%	
HPLC59pg140 #SS	038-0801.D	038-0802.D	AMMONIA.M	4.82	4.82	0.2	5.68	5.68	0.0	5.68	1	1.00	5.68	
												Tag Amount (ug)	5.55	
												Recovery (%)	102%	
HPLC59pg140 #SS	038-5901.D	038-5902.D	AMMONIA.M	4.82	4.82	0.0	5.77	5.72	0.5	5.75	1	1.00	5.75	
												Tag Amount (ug)	5.55	
												Recovery (%)	104%	

Narrative Summary

Enthalpy Analytical Narrative Summary

Company	STACS, Inc.
Analyst	EO
Parameters	EPA CTM-027

Client #	MIT-2A-OIL
Job #	0811-59
# Samples	3 runs and 1 blank

Custody

Lindsey Chatterton received the samples on 8/8/11 after being relinquished by Source Testing and Consulting Services, Inc. The samples were received at 14.9°C in good condition. Prior to, during, and after analysis, the samples were kept under lock with access only to authorized personnel by Enthalpy Analytical, Inc.

Analysis

The samples were analyzed for ammonia using the analytical procedures in EPA Conditional Test Method 027, Procedure for Collection and Analysis of Ammonia in Stationary Sources.

The samples were analyzed following the procedures in Section 4.2, Sample Analysis.

The Agilent Model 1100, High Performance Liquid Chromatograph ("Curly") was equipped with a Dionex CD20 Conductivity Detector and a Dionex Ion Pac CS12, 4 x 250 mm (S/N 009567) column.

Calibration

The calibration curve is located in the back of this report and referenced in the Analysis Method column on the Detailed Results page.

For each calibration curve used, the first page of the curve contains all method specific parameters (i.e., curve type, origin, weight, etc.) used to quantify the samples. The calibration curve section also includes a table with the Retention Time (RetTime), Level (Lvl), Amount (corresponding units), Area, Response Factor (Amt/Area) and the analyte Name. The calibration table is used to identify (by retention time) and quantify each target compound.

Chromatographic Conditions

The acquisition method (AMMONIA.M) is included in the Calibration Curve Chromatograms section of this report.

QC Notes

As required in section 4.2.3, Quality Control and Quality Assurance Enthalpy periodically analyzes independently prepared standards and blank checks reagents.

All sample preparation and analytical holding times specified in the method were met. In Section 4.1, Sample Preparation, the specified analytical holding time is two weeks from sampling date.

Enthalpy Analytical Narrative Summary

(continued)

Reporting Notes

FH,I1, and I2 fractions combined for R1 and R3. Fractions analyzed separately due to labeling issues of impinger 3.

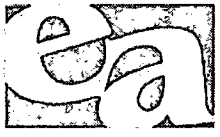
Enthalpy Analytical, Inc. is accredited to perform this method for compliance purposes by the National Environmental Laboratory Accreditation Conference (NELAC) through the Louisiana Environmental Laboratory Accreditation Program (LELAP), certificate number 04010.

The results presented in this report are representative of the samples as provided to the laboratory.

General Reporting Notes

The following are general reporting notes that are applicable to all Enthalpy Analytical, Inc. data reports, unless specifically noted otherwise.

- The acronym ***MDL*** represents the Minimum Detection Limit. Below this value the laboratory cannot determine the presence of the analyte of interest reliably.
- The acronym ***LOQ*** represents the Limit of Quantification. Below this value the laboratory cannot quantitate the analyte of interest within the criteria of the method.
- The acronym ***ND*** following a value indicates a non-detect or analytical result below the MDL.
- The letter ***J*** following a value indicates an analytical result between the MDL and the LOQ. A J flag indicates that the laboratory can positively identify the analyte of interest as present, but the value should be considered an estimate.
- The letter ***E*** following a value indicates an analytical result exceeding 100% of the highest calibration point. The associated value should be considered as an estimate.
- The acronym ***DF*** represents Dilution Factor. This number represents dilution of the sample during the preparation and/or analysis process. The analytical result taken from a laboratory instrument is multiplied by the DF to determine the final undiluted sample results.
- The addition of ***MS*** to the Sample ID represents a Matrix Spike. An aliquot of an actual sample is spiked with a known amount of analyte so that a percent recovery value can be determined. This shows what effect the sample matrix may have on the target analyte, i.e. whether or not anything in the sample matrix interferes with the analysis of the analyte(s).
- The addition of ***MSD*** to the Sample ID represents a Matrix Spike Duplicate. Prepared in the same manner as an MS, the use of duplicate matrix spikes allows further confirmation of laboratory quality by showing the consistency of results gained by performing the same steps multiple times.
- The addition of ***LD*** to the Sample ID represents a Laboratory Duplicate. The analyst prepares an additional aliquot of sample for testing and the results of the duplicate analysis are compared to the initial result. The result should have a difference value of within 10% of the initial result (if the results of the original analysis are greater than the LOQ).
- The addition of ***AD*** to the Sample ID represents an Alternate Dilution. The analyst prepares an additional aliquot at a different dilution factor (usually double the initial factor). This analysis helps confirm that no additional compound is present and coeluting or sharing absorbance with the analyte of interest, as they would have a different response/absorbance than the analyte of interest.
- The Sample ID ***LCS*** represents a Laboratory Control Sample. Clean matrix, similar to the client sample matrix, prepared and analyzed by the laboratory using the same reagents, spiking standards and procedures used for the client samples. The LCS is used to assess the control of the laboratory's analytical system. Whenever spikes are prepared for our client projects, two extra spikes are prepared. The extras (randomly chosen) are labeled with the associated project number and kept in-house at the appropriate temperature conditions. When the project samples are received for analysis, the LCSs are analyzed to confirm that the analyte could be recovered from the media, separate from the samples which were used on the project and which may have been affected by source matrix, sample collection and/or sample transport.

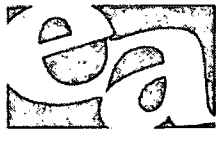


General Reporting Notes

(continued)

- **Significant Figures**: Where the reported value is much greater than unity (1.00) in the units expressed, the number is rounded to a whole number of units, rather than to 3 significant figures. For example, a value of 10,456.45 ug catch is rounded to 10,456 ug. There are five significant digits displayed, but no confidence should be placed on more than two significant digits.
- **Manual Integration**: The data systems used for processing will flag manually integrated peaks with an "M". There are several reasons a peak may be manually integrated. These reasons will be identified by the following two letter designations. The peak was ***not integrated*** by the software **"NI"**, the peak was ***integrated incorrectly*** by the software **"II"** or the ***wrong peak*** was integrated by the software **"WP"**. These codes will accompany the analyst's manual integration stamp placed next to the compound name.

Sample Custody



Chain of Custody

Source Testing And Consulting Services Inc.
208-114 Techno;ogy Pk Ln
Fuqua Varina, NC 27450
Phone: 919-557-7100
Fax: 919-557-9100

Client Name: BLACK AND VEATCH
Job ID:
Location: Loxahatchee FL
CT-2A OIL

Page ___ of ___

Analytical Laboratory:
Contact:
Phone:

Turn Aound Time: Normal ☐ Fast ☐

NH3 COM[PLIANCE

	Sample ID	Date Collected	Contents	Analysis
	CCS & FORMALDHYDE			
1	MIT-2A-OIL-NH3-BASE-F 1/2 R1	8/4/2011	.1 N H2SO4	NH3
2	MIT-2A-OIL-NH3-BASE-IMP-1 R1	8/4/2011	H2O	NH3
3	MIT-2A-OIL-NH3-BASE-IMP-2 R1	8/4/2011	H2O	NH3
4	MIT-2A-OIL-NH3-BASE-IMP-3 R1	8/4/2011	H2O	NH3
5				
6	MIT-2A-OIL-NH3-BASE-F 1/2 R2	8/4/2011	.1 N H2SO4	NH3
7	MIT-2A-OIL-NH3-BASE-IMP-1 R2	8/4/2011	H2O	NH3
8	MIT-2A-OIL-NH3-BASE-IMP-2 R2	8/4/2011	H2O	NH3
9	MIT-2A-OIL-NH3-BASE-IMP-3 R2	8/4/2011	H2O	NH3
10				
11	MIT-2A-OIL-NH3-BASE-F 1/2 R3	8/4/2011	.1 N H2SO4	NH3
12	MIT-2A-OIL-NH3-BASE-IMP-1 R3	8/4/2011	H2O	NH3
13	MIT-2A-OIL-NH3-BASE-IMP-2 R3	8/4/2011	H2O	NH3
14	MIT-2A-OIL-NH3-BASE-IMP-3 R3*	8/4/2011	H2O	NH3 * Received Imp 4 for R3 unc 8/8/11
15	.1 N H_2SO_4 Blank	8/4/2011	.1 N H_2SO_4	Blank
16				

Collected By:
Relinquished: Date: 8/8/11
Received By: Date:
Relinquished:
Received By: Date: 8/8/11 4:00 pm

Temp = 14.9° Raytek Gun #2

8/8/11

Sample Chromatograms

Data File I:\HPLC2011Q3\CURLY\DATA\AUG11\HPLC59PG144\081-5601.D
Sample Name: R1-FH-I1-I2 0811-59

```
==========================================================================
Acq. Operator   : AMP                          Seq. Line :  56
Acq. Instrument : Curly                         Location : Vial 81
Injection Date  : 8/25/2011 11:20:53 PM              Inj :   1
                                               Inj Volume : 25.0 µl
Sequence File   : I:\HPLC2011Q3\CURLY\SEQUENCE\HPLC59PG144.S
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG144\HPLC59PG144 2011-08-24 19-37-12\
                  AMMONIA.M
Last changed    : 8/22/2011 5:50:38 PM by KAW/KHB
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Last changed    : 8/25/2011 8:28:49 AM by AMP
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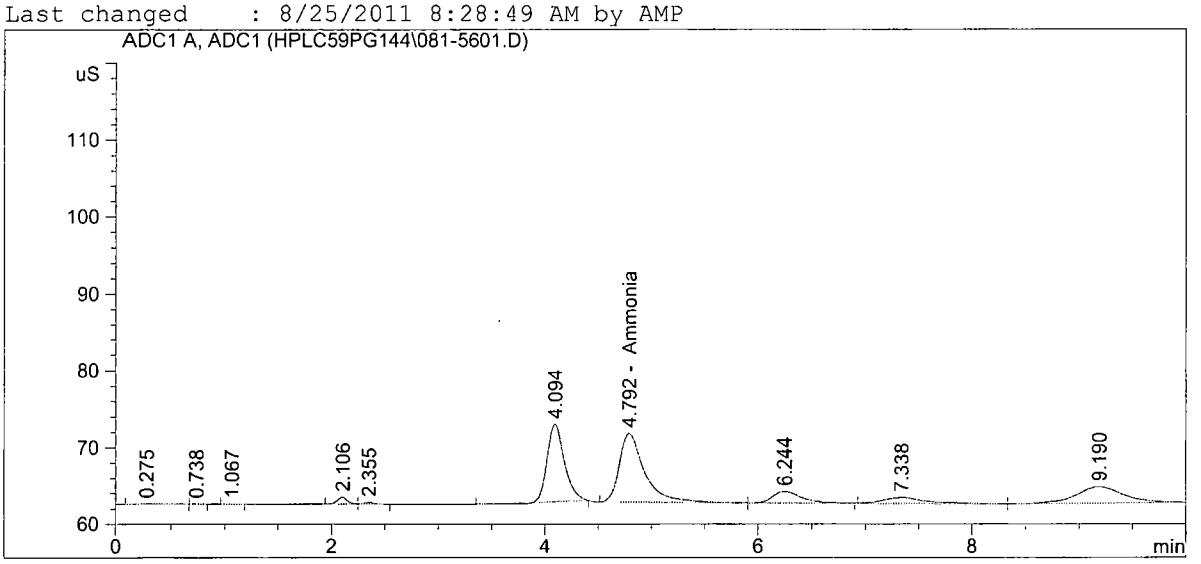



```
==========================================================================
                      External Standard Report
==========================================================================

Sorted By             :      Signal
Calib. Data Modified  :      Thursday, August 25, 2011 8:28:38 AM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1

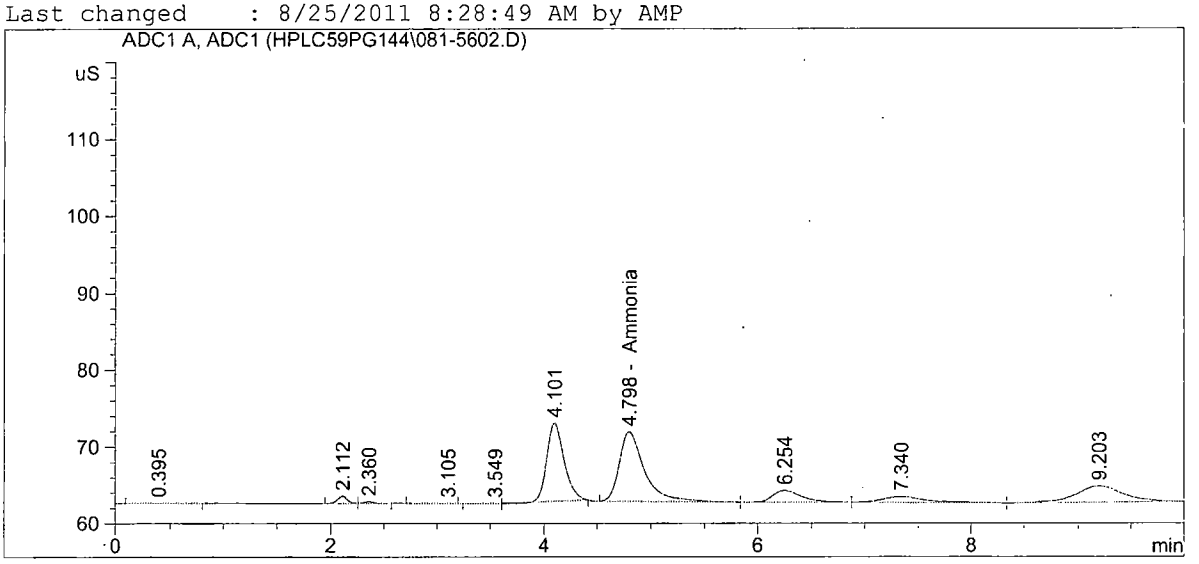
RetTime  Type     Area      Amt/Area    Amount   Grp   Name
 [min]          [uS*s]                [ug/mL]
-------|------|----------|----------|----------|--|------------------
  4.792 BV      148.59659  1.22394e-2   1.81873    Ammonia

Totals :                                 1.81873


==========================================================================
                          *** End of Report ***
```

ta File I:\HPLC2011Q3\CURLY\DATA\AUG11\HPLC59PG144\081-5602.D
mple Name: R1-FH-I1-I2 0811-59

```
==========================================================================
Acq. Operator   : AMP                                Seq. Line :  56
Acq. Instrument : Curly                               Location : Vial 81
Injection Date  : 8/25/2011 11:32:45 PM                    Inj :   2
                                                    Inj Volume : 25.0 µl
Sequence File   : I:\HPLC2011Q3\CURLY\SEQUENCE\HPLC59PG144.S
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG144\HPLC59PG144 2011-08-24 19-37-12\
                  AMMONIA.M
Last changed    : 8/22/2011 5:50:38 PM by KAW/KHB
Analysis Method : I:\HPLC2011Q3\CURLY\METHODS\HPLC59PG144.M
Last changed    : 8/25/2011 8:28:49 AM by AMP
```




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

Sorted By             :      Signal
Calib. Data Modified  :      Thursday, August 25, 2011 8:28:38 AM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1

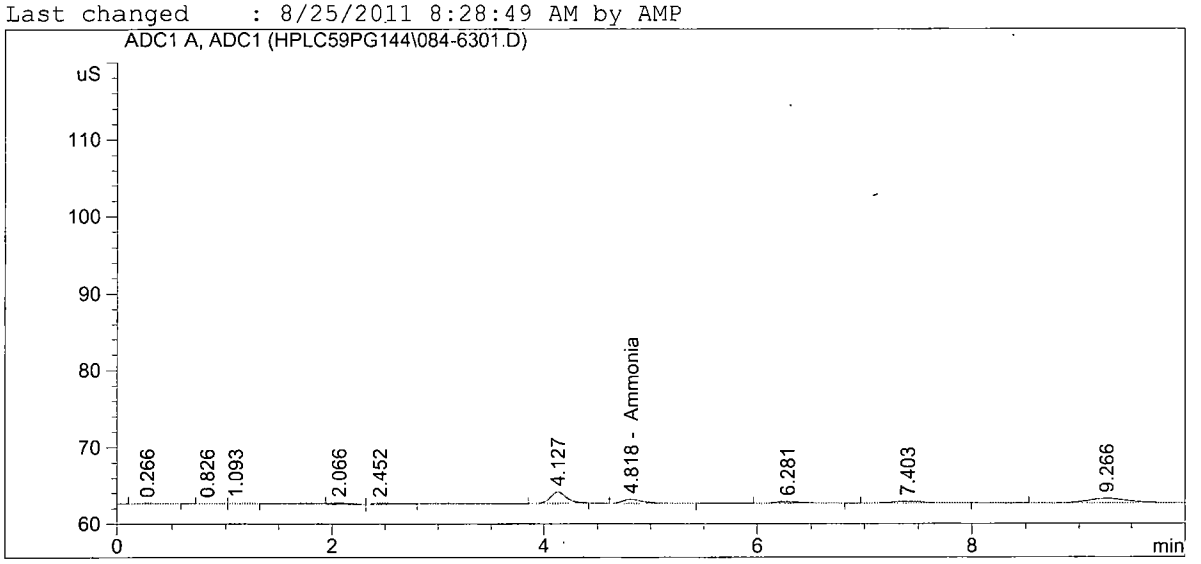
RetTime  Type     Area      Amt/Area    Amount   Grp   Name
 [min]          [uS*s]                [ug/mL]
-------|------|----------|----------|----------|--|------------------
  4.798 BV      147.84741  1.22283e-2   1.80792    Ammonia

Totals :                                 1.80792


==========================================================================
                          *** End of Report ***
```

Data File I:\HPLC2011Q3\CURLY\DATA\AUG11\HPLC59PG144\084-6301.D
Sample Name: R1-I3 0811-59

```
==========================================================================
Acq. Operator   : AMP                              Seq. Line :  63
Acq. Instrument : Curly                             Location : Vial 84
Injection Date  : 8/26/2011 2:06:45 AM                   Inj :   1
                                                  Inj Volume : 25.0 µl
Sequence File   : I:\HPLC2011Q3\CURLY\SEQUENCE\HPLC59PG144.S
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG144\HPLC59PG144 2011-08-24 19-37-12\
                  AMMONIA.M
Last changed    : 8/22/2011 5:50:38 PM by KAW/KHB
Analysis Method : I:\HPLC2011Q3\CURLY\METHODS\HPLC59PG144.M
Last changed    : 8/25/2011 8:28:49 AM by AMP
```




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

Sorted By             :      Signal
Calib. Data Modified  :      Thursday, August 25, 2011 8:28:38 AM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1

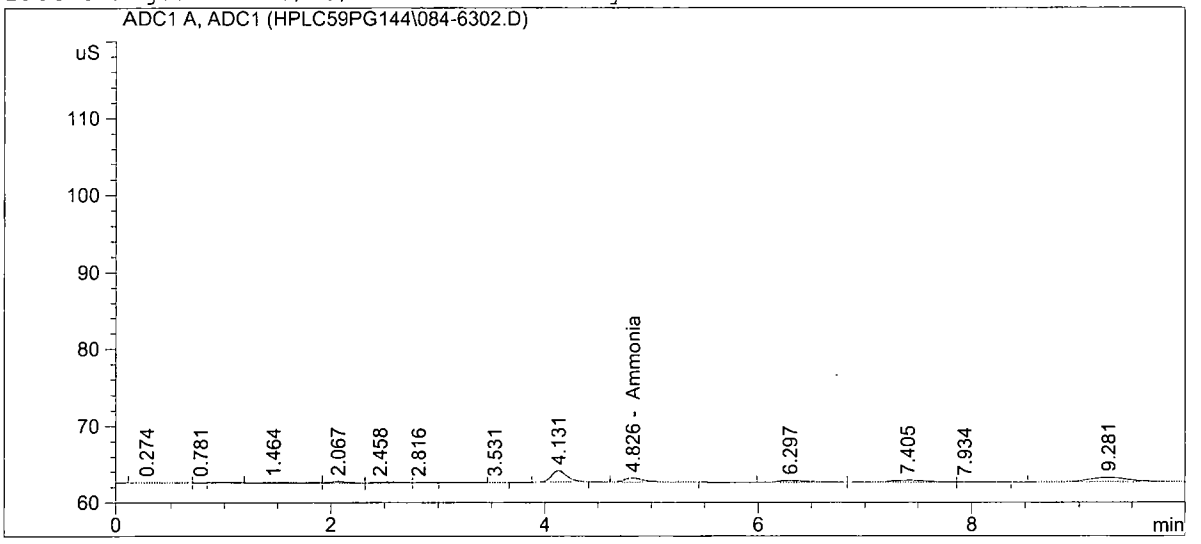
RetTime  Type     Area      Amt/Area    Amount    Grp   Name
 [min]          [uS*s]                [ug/mL]
-------|------|----------|----------|----------|--|------------------
  4.818 BB        6.61592  6.76458e-34.47539e-2    Ammonia

Totals :                               4.47539e-2


==========================================================================
                           *** End of Report ***
```

ta File I:\HPLC2011Q3\CURLY\DATA\AUG11\HPLC59PG144\084-6302.D
ample Name: R1-I3 0811-59

```
==========================================================================
Acq. Operator   : AMP                              Seq. Line :  63
Acq. Instrument : Curly                             Location : Vial 84
Injection Date  : 8/26/2011 2:18:33 AM                   Inj :   2
                                                  Inj Volume : 25.0 µl
Sequence File   : I:\HPLC2011Q3\CURLY\SEQUENCE\HPLC59PG144.S
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG144\HPLC59PG144 2011-08-24 19-37-12\
                  AMMONIA.M
Last changed    : 8/22/2011 5:50:38 PM by KAW/KHB
Analysis Method : I:\HPLC2011Q3\CURLY\METHODS\HPLC59PG144.M
Last changed    : 8/25/2011 8:28:49 AM by AMP
```




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

Sorted By             :      Signal
Calib. Data Modified  :      Thursday, August 25, 2011 8:28:38 AM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1

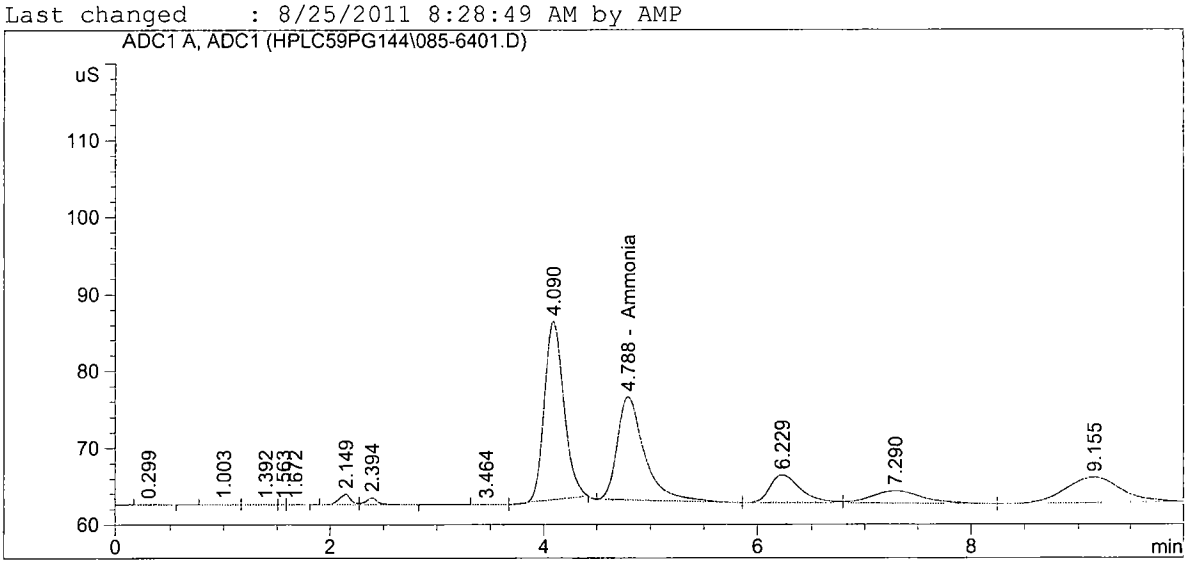
RetTime  Type     Area      Amt/Area    Amount    Grp   Name
 [min]          [uS*s]                [ug/mL]
-------|------|----------|----------|----------|--|------------------
  4.826 BB        7.14887  6.76458e-34.83591e-2    Ammonia

Totals :                               4.83591e-2


==========================================================================
                           *** End of Report ***
```

ta File I:\HPLC2011Q3\CURLY\DATA\AUG11\HPLC59PG144\085-6401.D
mple Name: R2-FH 0811-59

```
==========================================================================
Acq. Operator   : AMP                              Seq. Line :  64
Acq. Instrument : Curly                             Location : Vial 85
Injection Date  : 8/26/2011 2:30:25 AM                   Inj :   1
                                                  Inj Volume : 25.0 µl
Sequence File   : I:\HPLC2011Q3\CURLY\SEQUENCE\HPLC59PG144.S
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG144\HPLC59PG144 2011-08-24 19-37-12\
                  AMMONIA.M
Last changed    : 8/22/2011 5:50:38 PM by KAW/KHB
Analysis Method : I:\HPLC2011Q3\CURLY\METHODS\HPLC59PG144.M
Last changed    : 8/25/2011 8:28:49 AM by AMP
```




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

Sorted By             :      Signal
Calib. Data Modified  :      Thursday, August 25, 2011 8:28:38 AM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1

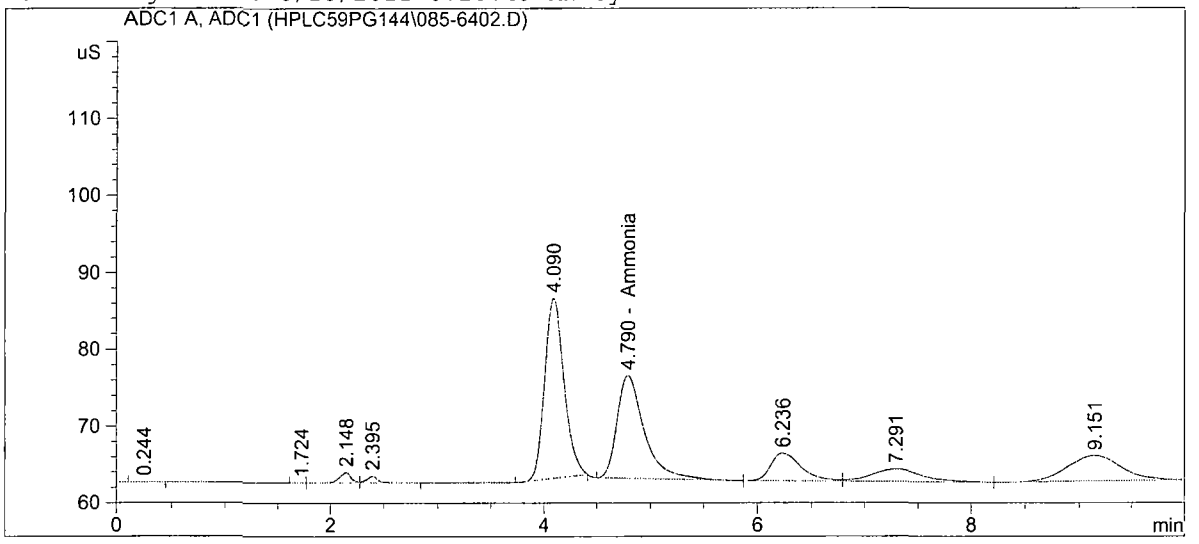
RetTime  Type     Area      Amt/Area    Amount   Grp   Name
 [min]          [uS*s]                [ug/mL]
-------|------|----------|----------|----------|--|------------------
  4.788 BV      237.47377  1.32312e-2   3.14205    Ammonia

Totals :                                3.14205


==========================================================================
                          *** End of Report ***
```

ta File I:\HPLC2011Q3\CURLY\DATA\AUG11\HPLC59PG144\085-6402.D
mple Name: R2-FH 0811-59

```
==========================================================================
Acq. Operator   : AMP                              Seq. Line :  64
Acq. Instrument : Curly                             Location : Vial 85
Injection Date  : 8/26/2011 2:42:17 AM                   Inj :   2
                                                  Inj Volume : 25.0 µl
Sequence File   : I:\HPLC2011Q3\CURLY\SEQUENCE\HPLC59PG144.S
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG144\HPLC59PG144 2011-08-24 19-37-12\
                  AMMONIA.M
Last changed    : 8/22/2011 5:50:38 PM by KAW/KHB
Analysis Method : I:\HPLC2011Q3\CURLY\METHODS\HPLC59PG144.M
Last changed    : 8/25/2011 8:28:49 AM by AMP
```




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

Sorted By             :      Signal
Calib. Data Modified  :      Thursday, August 25, 2011 8:28:38 AM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1

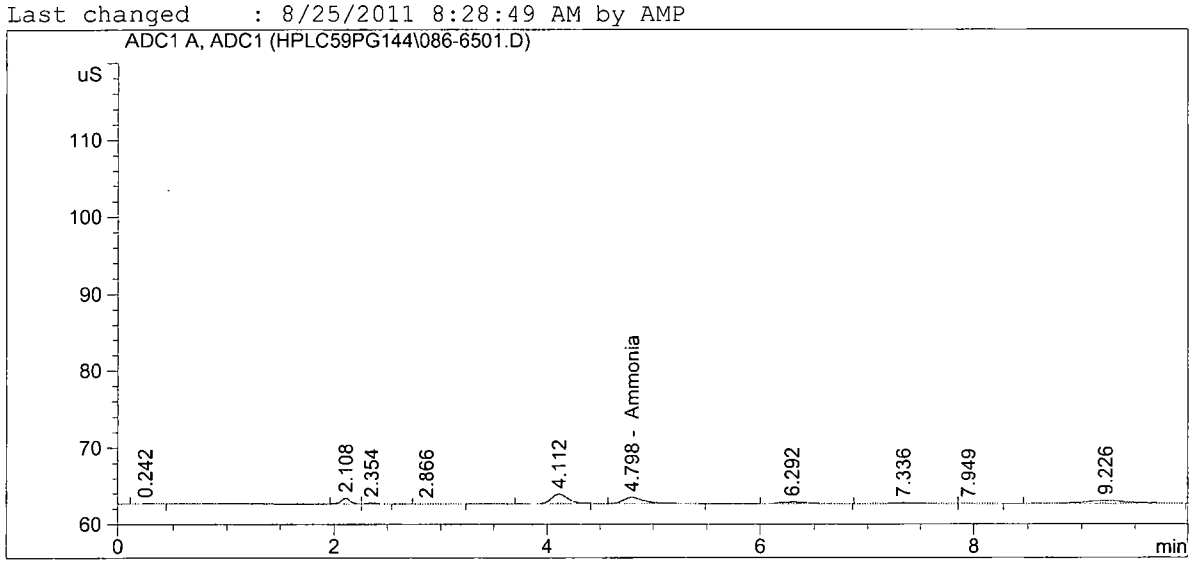
RetTime  Type     Area      Amt/Area    Amount    Grp   Name
 [min]          [uS*s]                [ug/mL]
-------|------|----------|----------|----------|--|------------------
  4.790 BV      237.40315  1.32305e-2   3.14097    Ammonia

Totals :                                3.14097


==========================================================================
                           *** End of Report ***
```

ta File I:\HPLC2011Q3\CURLY\DATA\AUG11\HPLC59PG144\086-6501.D
mple Name: R2-I1 0811-59

```
==========================================================================
Acq. Operator   : AMP                              Seq. Line :  65
Acq. Instrument : Curly                             Location : Vial 86
Injection Date  : 8/26/2011 2:54:06 AM                   Inj :   1
                                                  Inj Volume : 25.0 µl
Sequence File   : I:\HPLC2011Q3\CURLY\SEQUENCE\HPLC59PG144.S
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG144\HPLC59PG144 2011-08-24 19-37-12\
                  AMMONIA.M
Last changed    : 8/22/2011 5:50:38 PM by KAW/KHB
Analysis Method : I:\HPLC2011Q3\CURLY\METHODS\HPLC59PG144.M
Last changed    : 8/25/2011 8:28:49 AM by AMP
```




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

Sorted By             :      Signal
Calib. Data Modified  :      Thursday, August 25, 2011 8:28:38 AM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1

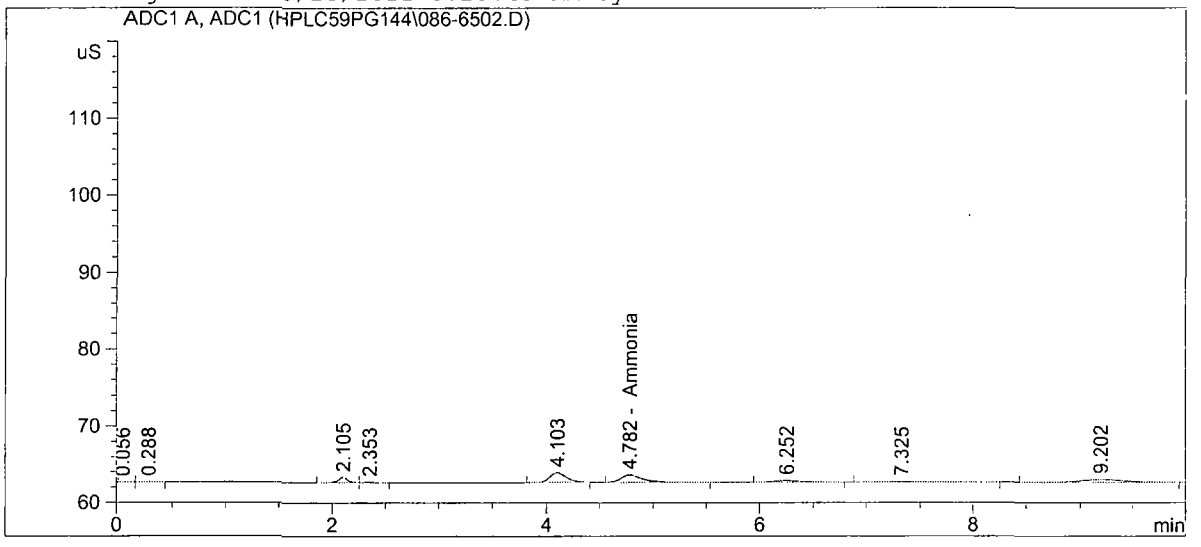
RetTime  Type     Area      Amt/Area    Amount    Grp   Name
 [min]          [uS*s]                [ug/mL]
-------|------|----------|----------|----------|--|------------------
  4.798 BB       10.92091  6.76458e-37.38753e-2    Ammonia

Totals :                               7.38753e-2


==========================================================================
                           *** End of Report ***
```

Data File I:\HPLC2011Q3\CURLY\DATA\AUG11\HPLC59PG144\086-6502.D
Sample Name: R2-I1 0811-59

```
==========================================================================
Acq. Operator   : AMP                              Seq. Line :  65
Acq. Instrument : Curly                             Location : Vial 86
Injection Date  : 8/26/2011 3:05:55 AM                   Inj :   2
                                                  Inj Volume : 25.0 µl
Sequence File   : I:\HPLC2011Q3\CURLY\SEQUENCE\HPLC59PG144.S
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG144\HPLC59PG144 2011-08-24 19-37-12\
                  AMMONIA.M
Last changed    : 8/22/2011 5:50:38 PM by KAW/KHB
Analysis Method : I:\HPLC2011Q3\CURLY\METHODS\HPLC59PG144.M
Last changed    : 8/25/2011 8:28:49 AM by AMP
```




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

Sorted By             :      Signal
Calib. Data Modified  :      Thursday, August 25, 2011 8:28:38 AM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1

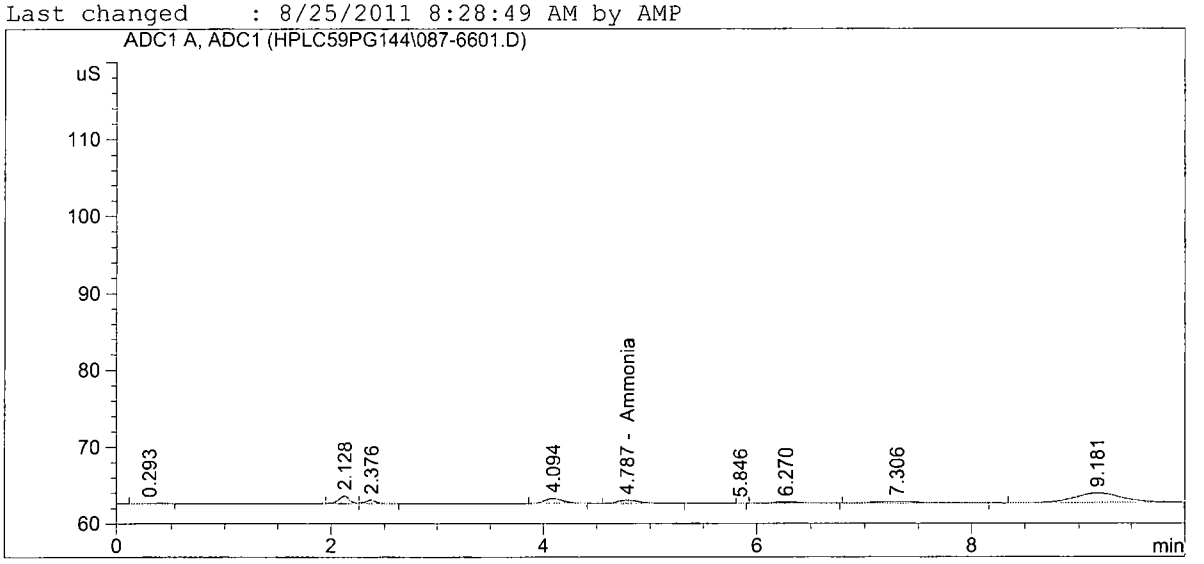
RetTime  Type     Area      Amt/Area    Amount    Grp   Name
 [min]          [uS*s]                [ug/mL]
-------|------|----------|----------|----------|--|------------------
  4.782 BB       12.81212  6.76458e-38.66686e-2    Ammonia

Totals :                               8.66686e-2

==========================================================================
                           *** End of Report ***
```

Data File I:\HPLC2011Q3\CURLY\DATA\AUG11\HPLC59PG144\087-6601.D
Sample Name: R2-I3 0811-59

```
==========================================================================
Acq. Operator   : AMP                              Seq. Line :  66
Acq. Instrument : Curly                             Location : Vial 87
Injection Date  : 8/26/2011 3:17:44 AM                   Inj :   1
                                                  Inj Volume : 25.0 µl
Sequence File   : I:\HPLC2011Q3\CURLY\SEQUENCE\HPLC59PG144.S
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG144\HPLC59PG144 2011-08-24 19-37-12\
                  AMMONIA.M
Last changed    : 8/22/2011 5:50:38 PM by KAW/KHB
Analysis Method : I:\HPLC2011Q3\CURLY\METHODS\HPLC59PG144.M
Last changed    : 8/25/2011 8:28:49 AM by AMP
```




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

Sorted By             :      Signal
Calib. Data Modified  :      Thursday, August 25, 2011 8:28:38 AM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1

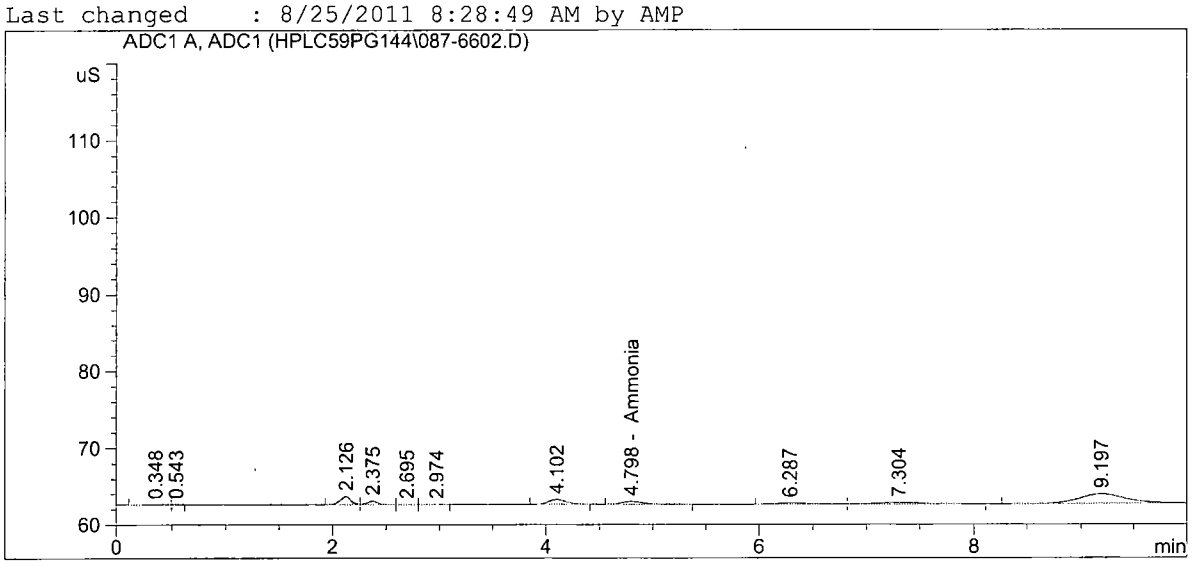
RetTime  Type     Area      Amt/Area    Amount    Grp   Name
 [min]          [uS*s]                 [ug/mL]
-------|------|----------|----------|----------|--|------------------
  4.787 BB        5.45654  6.76458e-33.69112e-2    Ammonia

Totals :                               3.69112e-2


==========================================================================
                           *** End of Report ***
```

ta File I:\HPLC2011Q3\CURLY\DATA\AUG11\HPLC59PG144\087-6602.D
mple Name: R2-I3 0811-59

```
==========================================================================
Acq. Operator   : AMP                              Seq. Line :  66
Acq. Instrument : Curly                             Location : Vial 87
Injection Date  : 8/26/2011 3:29:40 AM                   Inj :   2
                                                  Inj Volume : 25.0 µl
Sequence File   : I:\HPLC2011Q3\CURLY\SEQUENCE\HPLC59PG144.S
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG144\HPLC59PG144 2011-08-24 19-37-12\
                  AMMONIA.M
Last changed    : 8/22/2011 5:50:38 PM by KAW/KHB
Analysis Method : I:\HPLC2011Q3\CURLY\METHODS\HPLC59PG144.M
Last changed    : 8/25/2011 8:28:49 AM by AMP
```




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

Sorted By             :      Signal
Calib. Data Modified  :      Thursday, August 25, 2011 8:28:38 AM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1

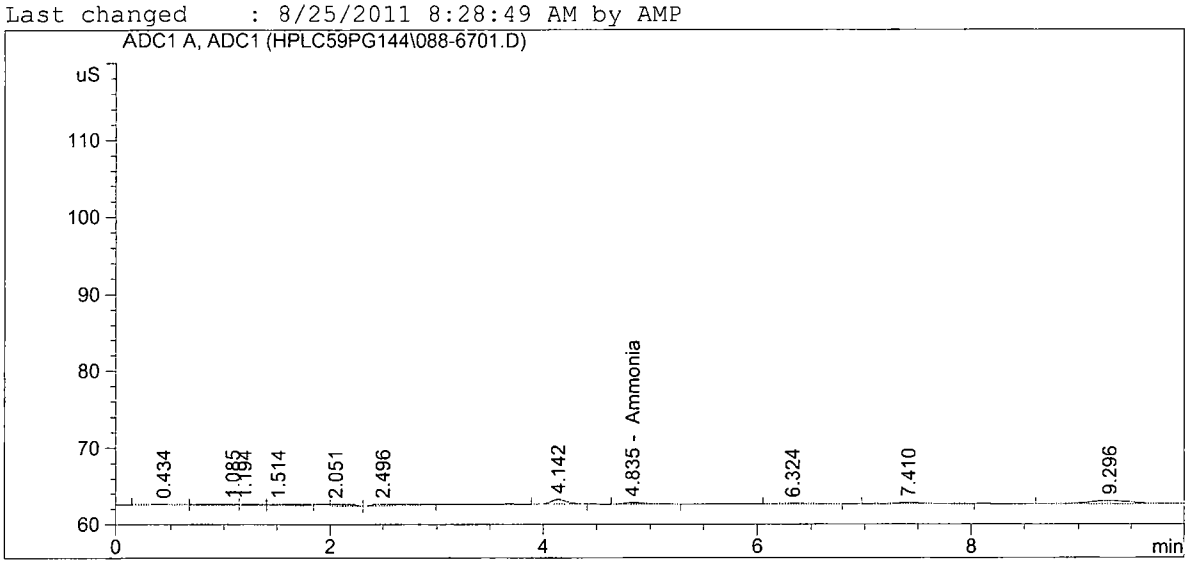
RetTime  Type     Area      Amt/Area    Amount    Grp   Name
 [min]          [uS*s]                [ug/mL]
-------|------|----------|----------|----------|--|------------------
  4.798 BB        5.16630  6.76458e-33.49478e-2    Ammonia

Totals :                               3.49478e-2


==========================================================================
                           *** End of Report ***
```

ta File I:\HPLC2011Q3\CURLY\DATA\AUG11\HPLC59PG144\088-6701.D
mple Name: R2-I3z 0811-59

```
==========================================================================
Acq. Operator   : AMP                              Seq. Line :  67
Acq. Instrument : Curly                             Location : Vial 88
Injection Date  : 8/26/2011 3:41:28 AM                   Inj :   1
                                                  Inj Volume : 25.0 µl
Sequence File   : I:\HPLC2011Q3\CURLY\SEQUENCE\HPLC59PG144.S
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG144\HPLC59PG144 2011-08-24 19-37-12\
                  AMMONIA.M
Last changed    : 8/22/2011 5:50:38 PM by KAW/KHB
Analysis Method : I:\HPLC2011Q3\CURLY\METHODS\HPLC59PG144.M
Last changed    : 8/25/2011 8:28:49 AM by AMP
```




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

Sorted By             :      Signal
Calib. Data Modified  :      Thursday, August 25, 2011 8:28:38 AM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1

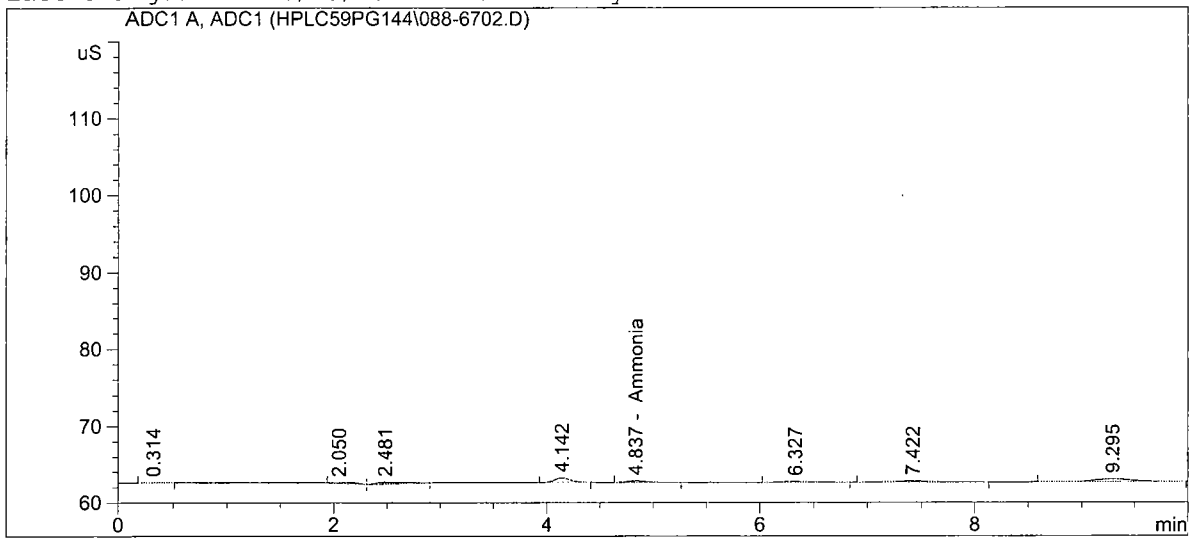
RetTime  Type     Area      Amt/Area    Amount    Grp   Name
 [min]          [uS*s]                [ug/mL]
-------|------|----------|----------|----------|--|------------------
  4.835 BB        2.38391  6.76458e-31.61261e-2    Ammonia

Totals :                               1.61261e-2


==========================================================================
                           *** End of Report ***
```

ta File I:\HPLC2011Q3\CURLY\DATA\AUG11\HPLC59PG144\088-6702.D
mple Name: R2-I3z 0811-59

```
==========================================================================
Acq. Operator   : AMP                              Seq. Line :  67
Acq. Instrument : Curly                             Location : Vial 88
Injection Date  : 8/26/2011 3:53:18 AM                   Inj :   2
                                                  Inj Volume : 25.0 µl
Sequence File   : I:\HPLC2011Q3\CURLY\SEQUENCE\HPLC59PG144.S
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG144\HPLC59PG144 2011-08-24 19-37-12\
                  AMMONIA.M
Last changed    : 8/22/2011 5:50:38 PM by KAW/KHB
Analysis Method : I:\HPLC2011Q3\CURLY\METHODS\HPLC59PG144.M
Last changed    : 8/25/2011 8:28:49 AM by AMP
```




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

Sorted By             :      Signal
Calib. Data Modified  :      Thursday, August 25, 2011 8:28:38 AM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1

RetTime  Type     Area      Amt/Area    Amount    Grp   Name
 [min]          [uS*s]                [ug/mL]
-------|------|----------|----------|----------|--|------------------
  4.837 BB        2.37662  6.76458e-31.60768e-2    Ammonia

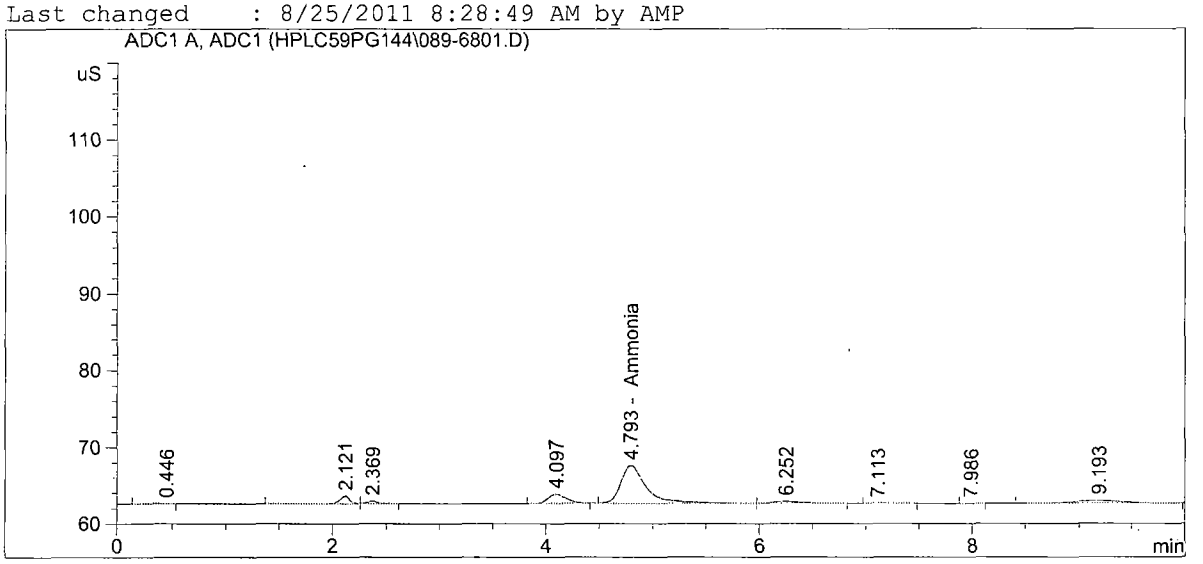
Totals :                              1.60768e-2


==========================================================================
                           *** End of Report ***
```

Data File I:\HPLC2011Q3\CURLY\DATA\AUG11\HPLC59PG144\089-6801.D
Sample Name: R3-FH-I1-I2 0811-59

Acq. Operator	: AMP	Seq. Line	: 68
Acq. Instrument	: Curly	Location	: Vial 89
Injection Date	: 8/26/2011 4:05:06 AM	Inj	: 1
		Inj Volume	: 25.0 µl

Sequence File : I:\HPLC2011Q3\CURLY\SEQUENCE\HPLC59PG144.S
Acq. Method : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG144\HPLC59PG144 2011-08-24 19-37-12\AMMONIA.M
Last changed : 8/22/2011 5:50:38 PM by KAW/KHB
Analysis Method : I:\HPLC2011Q3\CURLY\METHODS\HPLC59PG144.M
Last changed : 8/25/2011 8:28:49 AM by AMP



External Standard Report

Sorted By : Signal
Calib. Data Modified : Thursday, August 25, 2011 8:28:38 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1

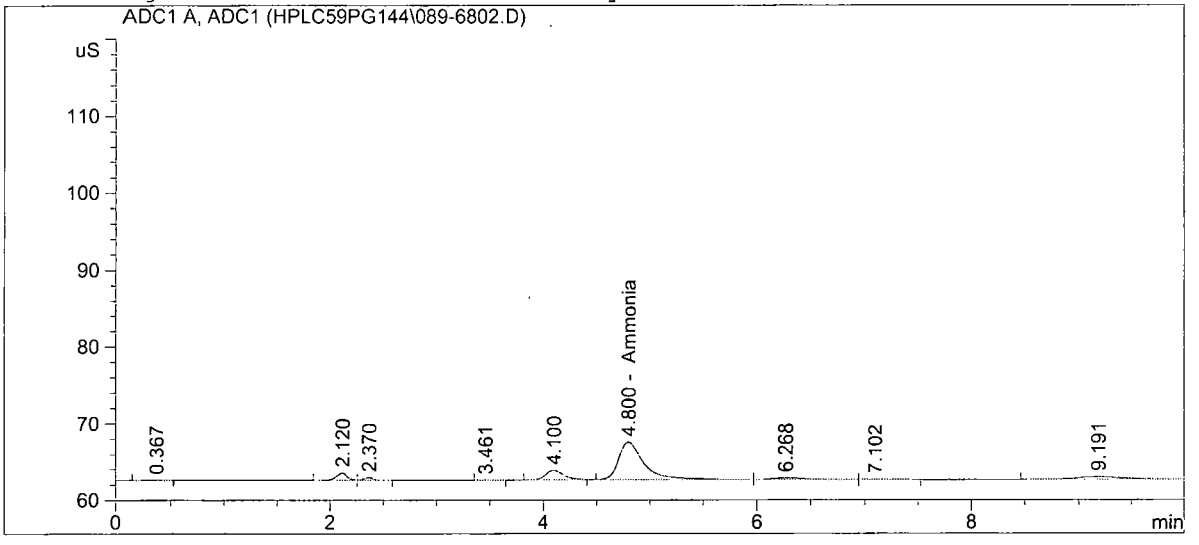
RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.793	BB	81.22796	1.06862e-2	8.68021e-1		Ammonia

Totals : 8.68021e-1

*** End of Report ***

ata File I:\HPLC2011Q3\CURLY\DATA\AUG11\HPLC59PG144\089-6802.D
mple Name: R3-FH-I1-I2 0811-59

```
==========================================================================
Acq. Operator   : AMP                              Seq. Line :  68
Acq. Instrument : Curly                             Location : Vial 89
Injection Date  : 8/26/2011 4:17:00 AM                   Inj :   2
                                                  Inj Volume : 25.0 µl
Sequence File   : I:\HPLC2011Q3\CURLY\SEQUENCE\HPLC59PG144.S
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG144\HPLC59PG144 2011-08-24 19-37-12\
                  AMMONIA.M
Last changed    : 8/22/2011 5:50:38 PM by KAW/KHB
Analysis Method : I:\HPLC2011Q3\CURLY\METHODS\HPLC59PG144.M
Last changed    : 8/25/2011 8:28:49 AM by AMP
```




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

Sorted By             :      Signal
Calib. Data Modified  :      Thursday, August 25, 2011 8:28:38 AM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1

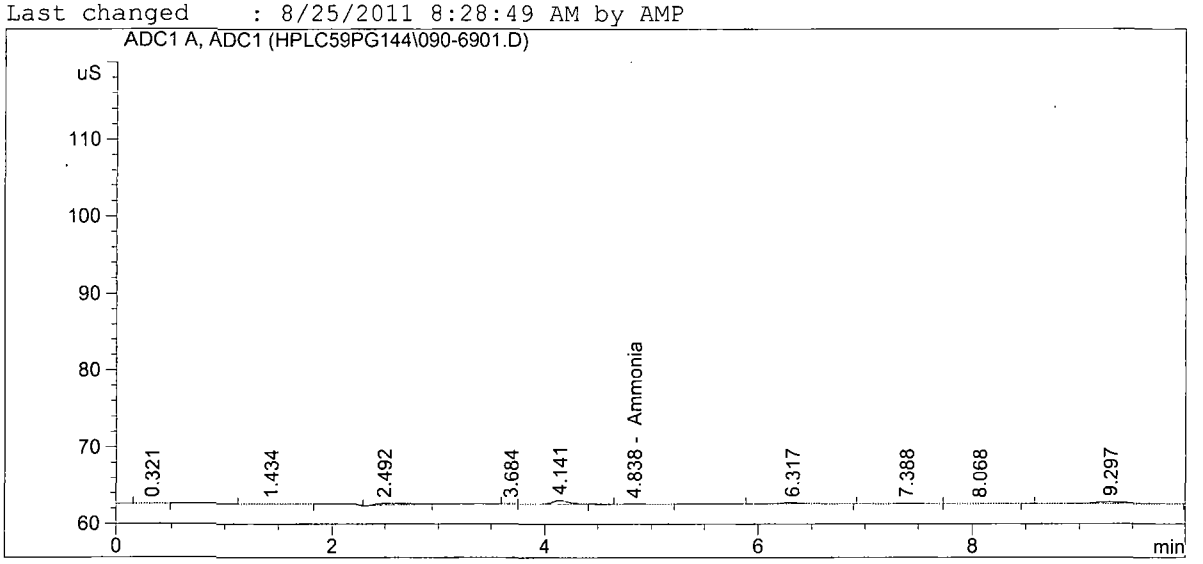
RetTime  Type     Area      Amt/Area    Amount    Grp   Name
 [min]          [uS*s]                 [ug/mL]
-------|------|----------|----------|----------|--|------------------
  4.800 BB       81.32613  1.06900e-28.69377e-1    Ammonia

Totals :                               8.69377e-1


==========================================================================
                           *** End of Report ***
```

Data File I:\HPLC2011Q3\CURLY\DATA\AUG11\HPLC59PG144\090-6901.D
Sample Name: R3-I3 0811-59

```
==========================================================================
Acq. Operator   : AMP                              Seq. Line :  69
Acq. Instrument : Curly                             Location : Vial 90
Injection Date  : 8/26/2011 4:28:51 AM                   Inj :   1
                                                  Inj Volume : 25.0 µl
Sequence File   : I:\HPLC2011Q3\CURLY\SEQUENCE\HPLC59PG144.S
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG144\HPLC59PG144 2011-08-24 19-37-12\
                  AMMONIA.M
Last changed    : 8/22/2011 5:50:38 PM by KAW/KHB
Analysis Method : I:\HPLC2011Q3\CURLY\METHODS\HPLC59PG144.M
Last changed    : 8/25/2011 8:28:49 AM by AMP
```




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

Sorted By             :      Signal
Calib. Data Modified  :      Thursday, August 25, 2011 8:28:38 AM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1

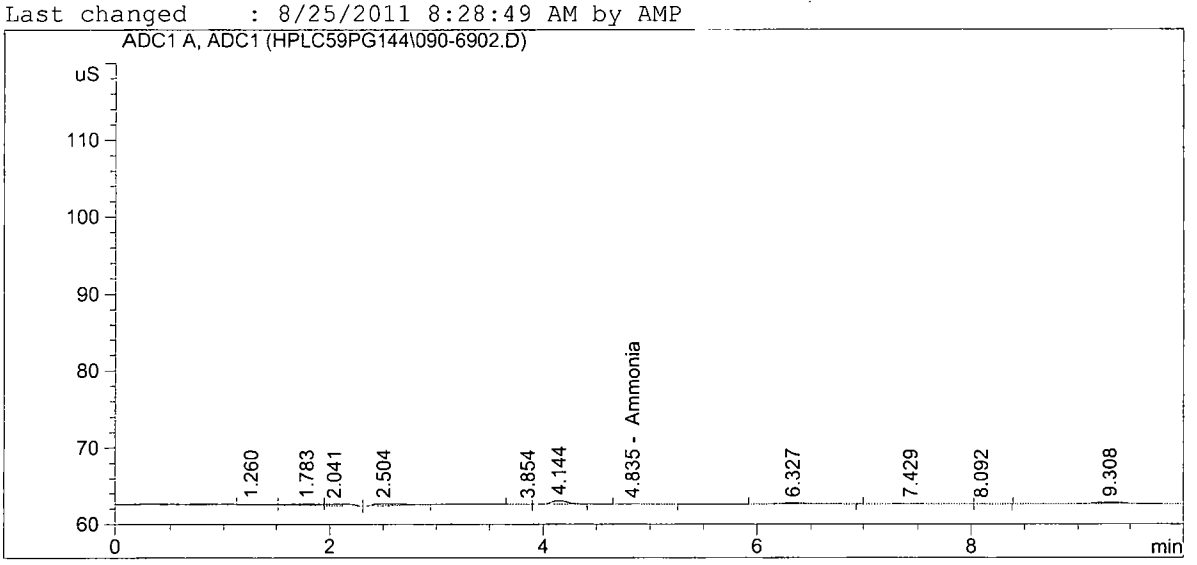
RetTime  Type     Area      Amt/Area    Amount    Grp   Name
 [min]          [uS*s]                [ug/mL]
-------|------|----------|----------|----------|--|------------------
  4.838 BB     5.62727e-1  6.76458e-33.80661e-3    Ammonia

Totals :                               3.80661e-3


==========================================================================
                          *** End of Report ***
```

ta File I:\HPLC2011Q3\CURLY\DATA\AUG11\HPLC59PG144\090-6902.D
mple Name: R3-I3 0811-59

```
==========================================================================
Acq. Operator   : AMP                              Seq. Line :  69
Acq. Instrument : Curly                             Location : Vial 90
Injection Date  : 8/26/2011 4:40:46 AM                   Inj :   2
                                                  Inj Volume : 25.0 µl
Sequence File   : I:\HPLC2011Q3\CURLY\SEQUENCE\HPLC59PG144.S
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG144\HPLC59PG144 2011-08-24 19-37-12\
                  AMMONIA.M
Last changed    : 8/22/2011 5:50:38 PM by KAW/KHB
Analysis Method : I:\HPLC2011Q3\CURLY\METHODS\HPLC59PG144.M
Last changed    : 8/25/2011 8:28:49 AM by AMP
```




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

Sorted By             :      Signal
Calib. Data Modified  :      Thursday, August 25, 2011 8:28:38 AM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1

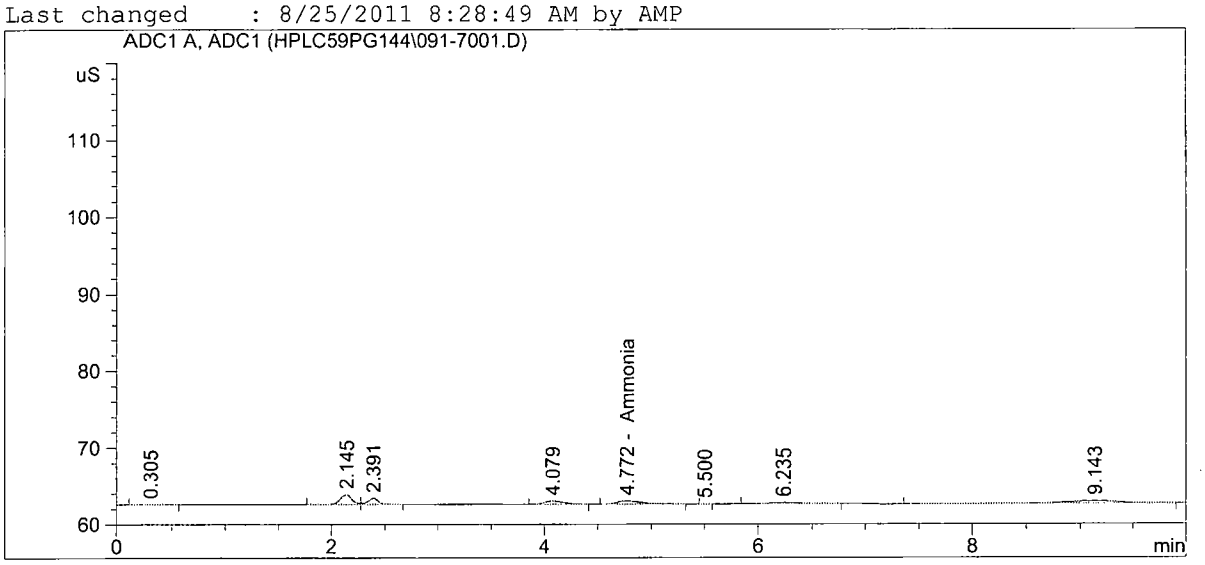
RetTime  Type     Area      Amt/Area    Amount   Grp   Name
 [min]          [uS*s]                [ug/mL]
-------|------|----------|----------|----------|--|------------------
  4.835 BB     4.14774e-1  6.76458e-32.80577e-3    Ammonia

Totals :                              2.80577e-3


==========================================================================
                          *** End of Report ***
```

Data File I:\HPLC2011Q3\CURLY\DATA\AUG11\HPLC59PG144\091-7001.D
Sample Name: H2SO4 RB 0811-59

```
==========================================================================
Acq. Operator   : AMP                          Seq. Line :  70
Acq. Instrument : Curly                         Location : Vial 91
Injection Date  : 8/26/2011 4:52:38 AM               Inj :   1
                                               Inj Volume : 25.0 µl
Sequence File   : I:\HPLC2011Q3\CURLY\SEQUENCE\HPLC59PG144.S
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG144\HPLC59PG144 2011-08-24 19-37-12\
                  AMMONIA.M
Last changed    : 8/22/2011 5:50:38 PM by KAW/KHB
Analysis Method : I:\HPLC2011Q3\CURLY\METHODS\HPLC59PG144.M
Last changed    : 8/25/2011 8:28:49 AM by AMP
```




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

Sorted By             :      Signal
Calib. Data Modified  :      Thursday, August 25, 2011 8:28:38 AM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1

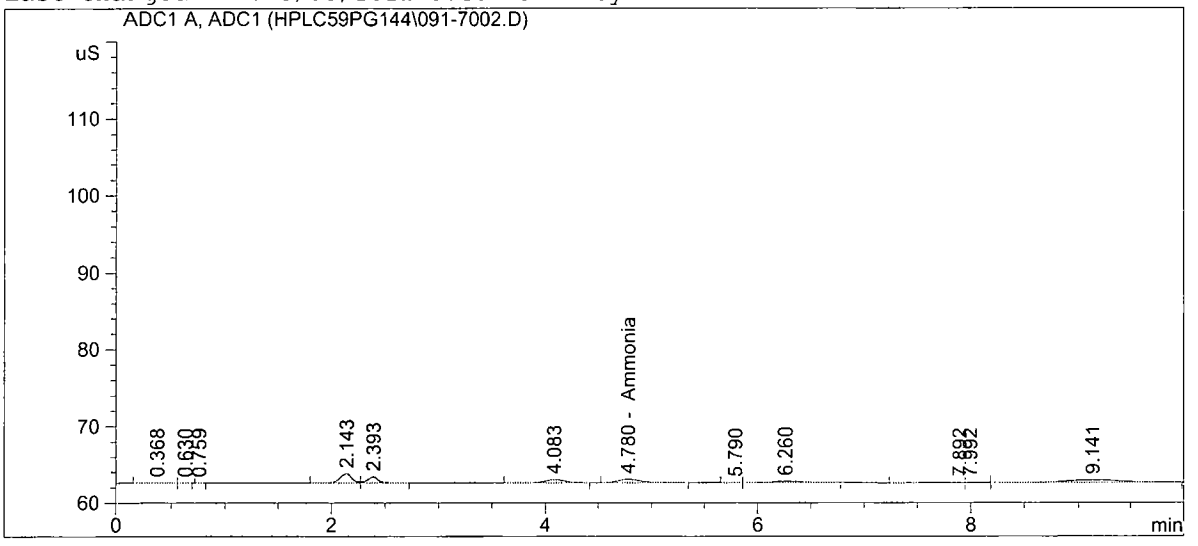
RetTime  Type     Area      Amt/Area    Amount    Grp   Name
 [min]          [uS*s]                [ug/mL]
-------|------|----------|----------|----------|--|-----------------
  4.772 BB        6.24745  6.76458e-34.22614e-2    Ammonia

Totals :                               4.22614e-2


==========================================================================
                          *** End of Report ***
```

ta File I:\HPLC2011Q3\CURLY\DATA\AUG11\HPLC59PG144\091-7002.D
mple Name: H2SO4 RB 0811-59

```
==========================================================================
Acq. Operator   : AMP                              Seq. Line :  70
Acq. Instrument : Curly                             Location : Vial 91
Injection Date  : 8/26/2011 5:04:31 AM                   Inj :   2
                                                  Inj Volume : 25.0 µl
Sequence File   : I:\HPLC2011Q3\CURLY\SEQUENCE\HPLC59PG144.S
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG144\HPLC59PG144 2011-08-24 19-37-12\
                  AMMONIA.M
Last changed    : 8/22/2011 5:50:38 PM by KAW/KHB
Analysis Method : I:\HPLC2011Q3\CURLY\METHODS\HPLC59PG144.M
Last changed    : 8/25/2011 8:28:49 AM by AMP
```




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

Sorted By             :      Signal
Calib. Data Modified  :      Thursday, August 25, 2011 8:28:38 AM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1

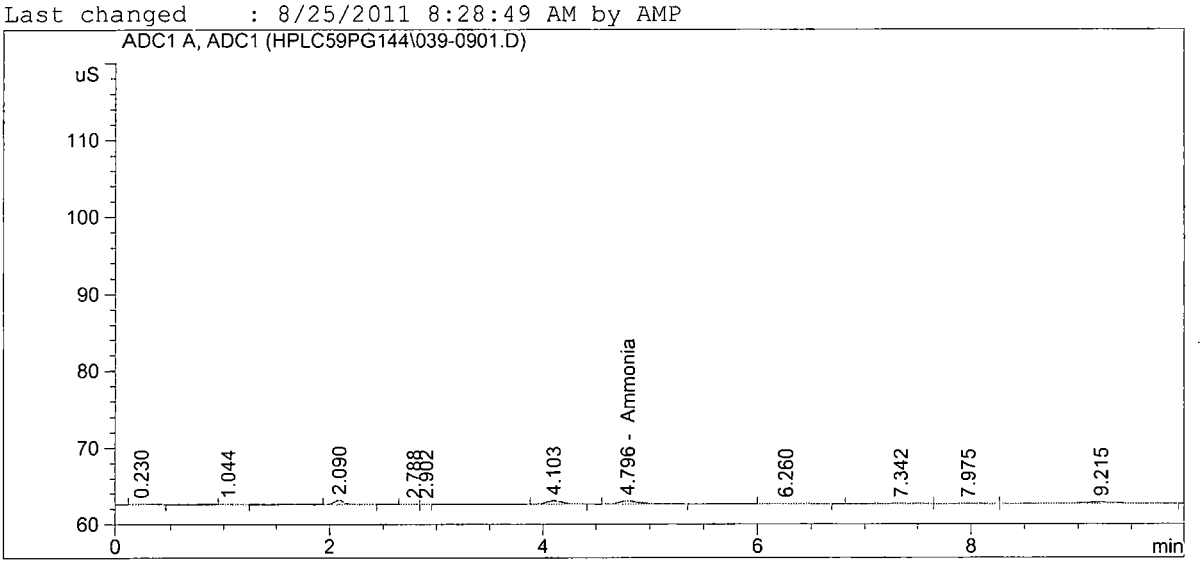
RetTime  Type     Area      Amt/Area    Amount    Grp   Name
 [min]          [uS*s]                [ug/mL]
-------|------|----------|----------|----------|--|------------------
  4.780 BB        6.60035  6.76458e-34.46486e-2    Ammonia

Totals :                              4.46486e-2


==========================================================================
                          *** End of Report ***
```

ta File I:\HPLC2011Q3\CURLY\DATA\AUG11\HPLC59PG144\039-0901.D
mple Name: 0.04N H2SO4 RB

```
==========================================================================
Acq. Operator   : AMP                              Seq. Line :   9
Acq. Instrument : Curly                             Location : Vial 39
Injection Date  : 8/24/2011 10:48:32 PM                  Inj :   1
                                                  Inj Volume : 25.0 µl
Sequence File   : I:\HPLC2011Q3\CURLY\SEQUENCE\HPLC59PG144.S
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG144\HPLC59PG144 2011-08-24 19-37-12\
                  AMMONIA.M
Last changed    : 8/22/2011 5:50:38 PM by KAW/KHB
Analysis Method : I:\HPLC2011Q3\CURLY\METHODS\HPLC59PG144.M
Last changed    : 8/25/2011 8:28:49 AM by AMP
```




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

Sorted By             :      Signal
Calib. Data Modified  :      Thursday, August 25, 2011 8:28:38 AM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1

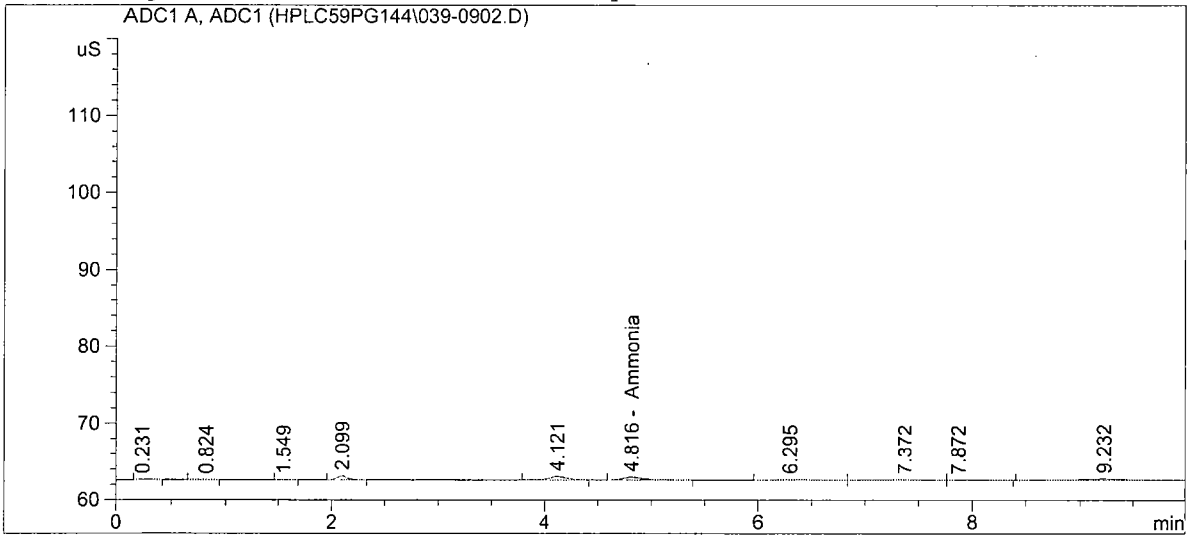
RetTime  Type     Area      Amt/Area    Amount    Grp   Name
 [min]          [uS*s]                [ug/mL]
-------|------|----------|----------|----------|--|------------------
  4.796 BB        5.16120  6.76458e-33.49133e-2    Ammonia

Totals :                               3.49133e-2


==========================================================================
                          *** End of Report ***
```

Data File I:\HPLC2011Q3\CURLY\DATA\AUG11\HPLC59PG144\039-0902.D
Sample Name: 0.04N H2SO4 RB

```
==========================================================================
Acq. Operator   : AMP                              Seq. Line :   9
Acq. Instrument : Curly                             Location : Vial 39
Injection Date  : 8/24/2011 11:00:24 PM                 Inj :   2
                                                  Inj Volume : 25.0 µl
Sequence File   : I:\HPLC2011Q3\CURLY\SEQUENCE\HPLC59PG144.S
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG144\HPLC59PG144 2011-08-24 19-37-12\
                  AMMONIA.M
Last changed    : 8/22/2011 5:50:38 PM by KAW/KHB
Analysis Method : I:\HPLC2011Q3\CURLY\METHODS\HPLC59PG144.M
Last changed    : 8/25/2011 8:28:49 AM by AMP
```




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

Sorted By             :      Signal
Calib. Data Modified  :      Thursday, August 25, 2011 8:28:38 AM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1

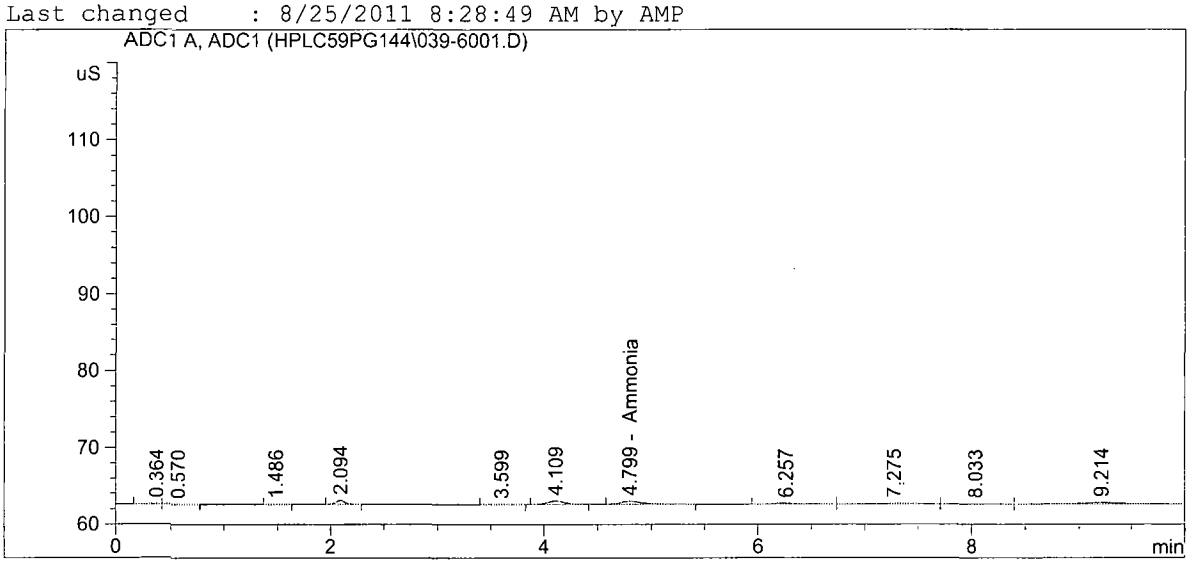
RetTime  Type     Area      Amt/Area    Amount    Grp   Name
 [min]          [uS*s]                [ug/mL]
-------|------|----------|----------|----------|--|------------------
  4.816 BB        4.54865  6.76458e-33.07697e-2     Ammonia

Totals :                               3.07697e-2


==========================================================================
                          *** End of Report ***
```

Data File I:\HPLC2011Q3\CURLY\DATA\AUG11\HPLC59PG144\039-6001.D
Sample Name: .04N H2SO4 RB

```
==========================================================================
Acq. Operator   : AMP                              Seq. Line :  60
Acq. Instrument : Curly                             Location : Vial 39
Injection Date  : 8/26/2011 12:55:37 AM                  Inj :   1
                                                  Inj Volume : 25.0 µl
Sequence File   : I:\HPLC2011Q3\CURLY\SEQUENCE\HPLC59PG144.S
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG144\HPLC59PG144 2011-08-24 19-37-12\
                  AMMONIA.M
Last changed    : 8/22/2011 5:50:38 PM by KAW/KHB
Analysis Method : I:\HPLC2011Q3\CURLY\METHODS\HPLC59PG144.M
Last changed    : 8/25/2011 8:28:49 AM by AMP
```




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

Sorted By             :      Signal
Calib. Data Modified  :      Thursday, August 25, 2011 8:28:38 AM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1

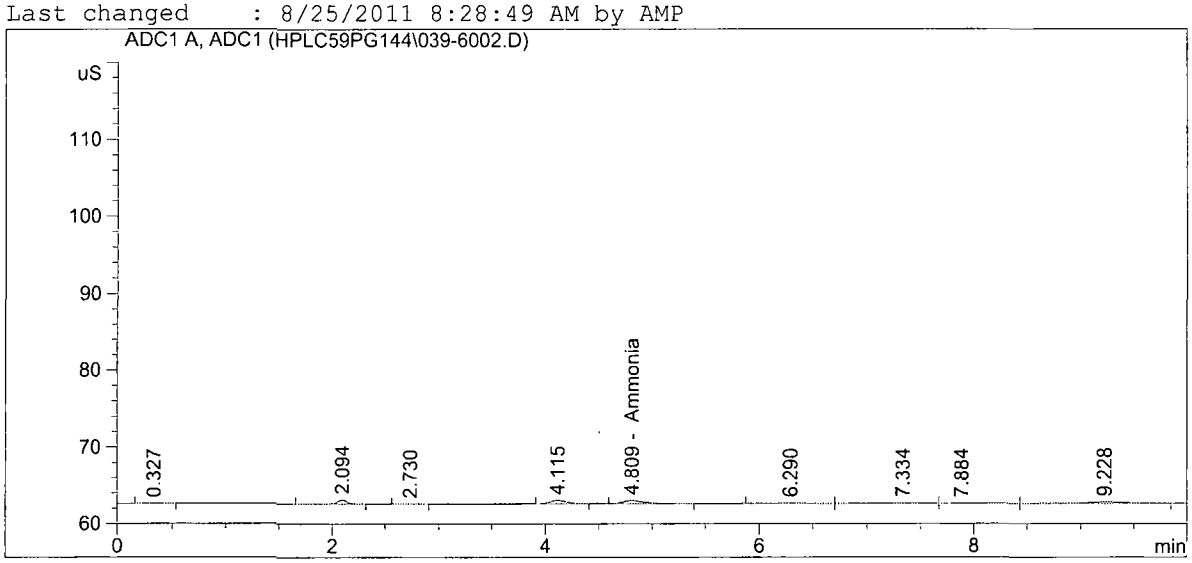
RetTime  Type     Area      Amt/Area    Amount    Grp   Name
 [min]          [uS*s]                [ug/mL]
-------|------|----------|----------|----------|--|------------------
  4.799 BB        5.31381  6.76458e-33.59457e-2    Ammonia

Totals :                               3.59457e-2


==========================================================================
                           *** End of Report ***
```

ta File I:\HPLC2011Q3\CURLY\DATA\AUG11\HPLC59PG144\039-6002.D
mple Name: 0.04N H2SO4 RB

```
Acq. Operator   : AMP                                  Seq. Line :  60
Acq. Instrument : Curly                               Location : Vial 39
Injection Date  : 8/26/2011 1:07:26 AM                     Inj :   2
                                                     Inj Volume : 25.0 µl
Sequence File   : I:\HPLC2011Q3\CURLY\SEQUENCE\HPLC59PG144.S
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG144\HPLC59PG144 2011-08-24 19-37-12\
                  AMMONIA.M
Last changed    : 8/22/2011 5:50:38 PM by KAW/KHB
Analysis Method : I:\HPLC2011Q3\CURLY\METHODS\HPLC59PG144.M
Last changed    : 8/25/2011 8:28:49 AM by AMP
```



External Standard Report

```
Sorted By             :      Signal
Calib. Data Modified  :      Thursday, August 25, 2011 8:28:38 AM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1
```

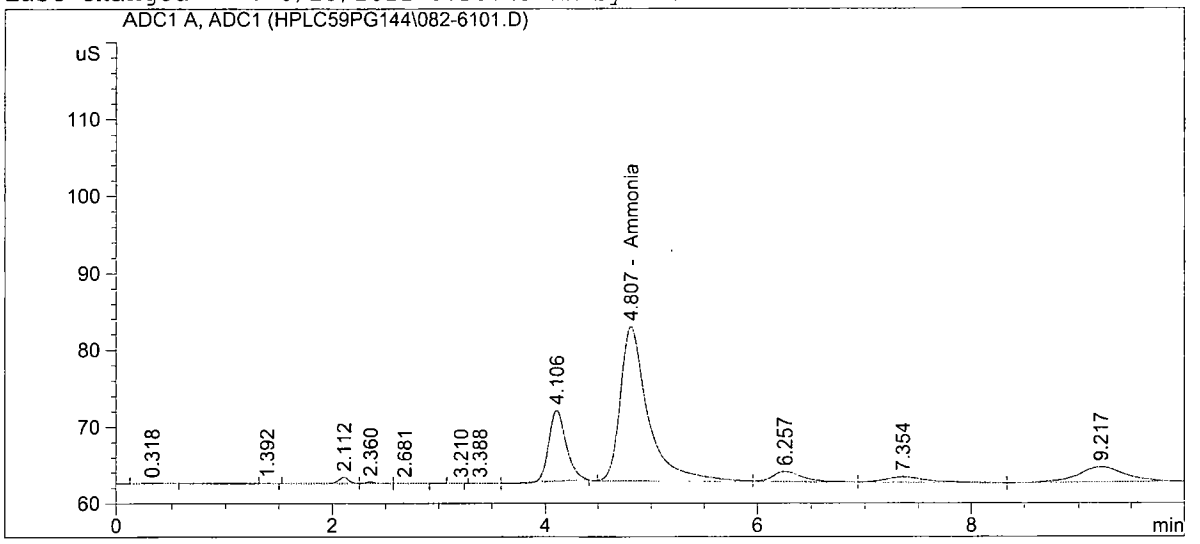
RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.809	BB	5.25482	6.76458e-3	3.55467e-2		Ammonia

Totals : 3.55467e-2

*** End of Report ***

Data File I:\HPLC2011Q3\CURLY\DATA\AUG11\HPLC59PG144\082-6101.D
Sample Name: MS R1-FH-I1-I2 0811-59

```
==========================================================================
Acq. Operator   : AMP                                Seq. Line :  61
Acq. Instrument : Curly                               Location : Vial 82
Injection Date  : 8/26/2011 1:19:17 AM                     Inj :   1
                                                   Inj Volume : 25.0 µl
Sequence File   : I:\HPLC2011Q3\CURLY\SEQUENCE\HPLC59PG144.S
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG144\HPLC59PG144 2011-08-24 19-37-12\
                  AMMONIA.M
Last changed    : 8/22/2011 5:50:38 PM by KAW/KHB
Analysis Method : I:\HPLC2011Q3\CURLY\METHODS\HPLC59PG144.M
Last changed    : 8/25/2011 8:28:49 AM by AMP
```




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

Sorted By             :      Signal
Calib. Data Modified  :      Thursday, August 25, 2011 8:28:38 AM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1

RetTime  Type     Area      Amt/Area    Amount   Grp   Name
 [min]          [uS*s]                [ug/mL]
-------|------|----------|----------|----------|--|------------------
  4.807 BV      366.69196  1.42897e-2   5.23991    Ammonia

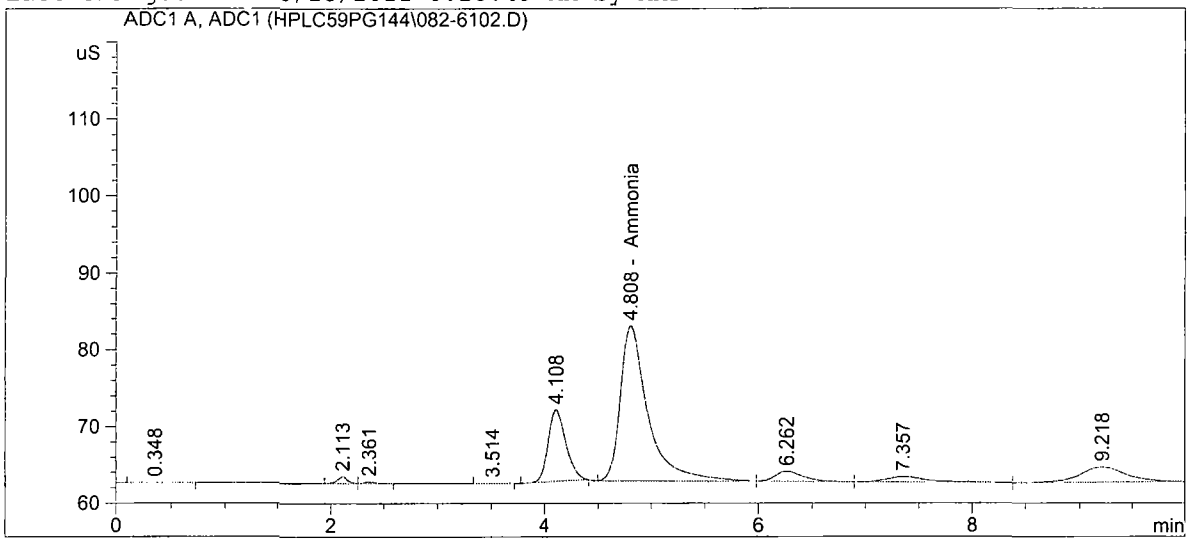
Totals :                                 5.23991


==========================================================================
                          *** End of Report ***
```

Data File I:\HPLC2011Q3\CURLY\DATA\AUG11\HPLC59PG144\082-6102.D
Sample Name: MS R1-FH-I1-I2 0811-59

Acq. Operator	: AMP	Seq. Line	: 61
Acq. Instrument	: Curly	Location	: Vial 82
Injection Date	: 8/26/2011 1:31:06 AM	Inj	: 2
		Inj Volume	: 25.0 µl

Sequence File : I:\HPLC2011Q3\CURLY\SEQUENCE\HPLC59PG144.S
Acq. Method : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG144\HPLC59PG144 2011-08-24 19-37-12\AMMONIA.M
Last changed : 8/22/2011 5:50:38 PM by KAW/KHB
Analysis Method : I:\HPLC2011Q3\CURLY\METHODS\HPLC59PG144.M
Last changed : 8/25/2011 8:28:49 AM by AMP



External Standard Report

Sorted By : Signal
Calib. Data Modified : Thursday, August 25, 2011 8:28:38 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1

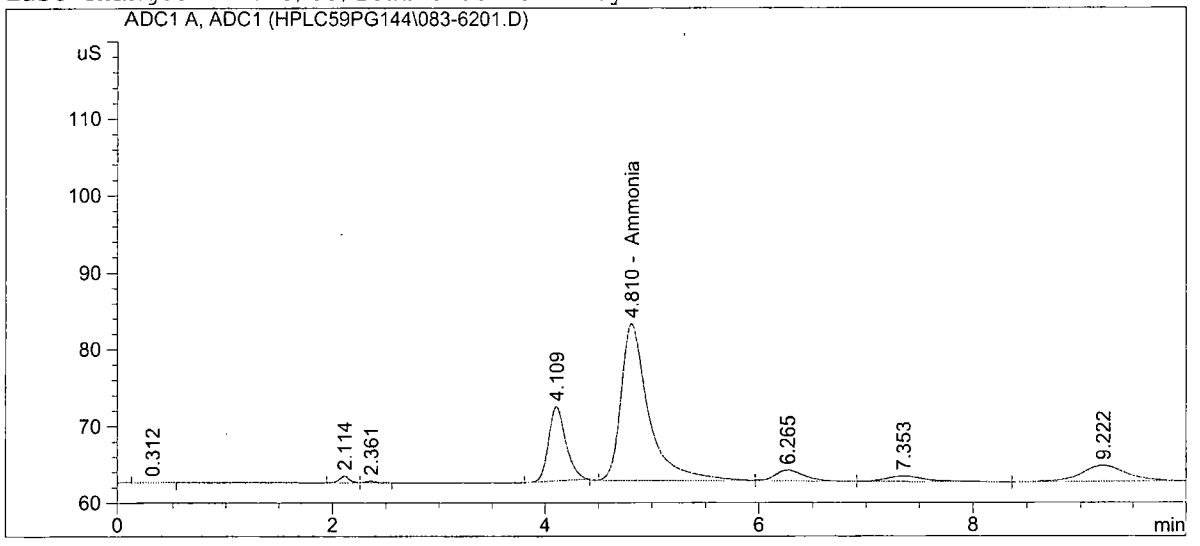
RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.808	BV	366.99219	1.42920e-2	5.24507		Ammonia

Totals : 5.24507

*** End of Report ***

Data File I:\HPLC2011Q3\CURLY\DATA\AUG11\HPLC59PG144\083-6201.D
Sample Name: MSD R1-FH-I1-I2 0811-59

```
==========================================================================
Acq. Operator   : AMP                          Seq. Line :  62
Acq. Instrument : Curly                         Location : Vial 83
Injection Date  : 8/26/2011 1:42:57 AM              Inj :   1
                                               Inj Volume : 25.0 µl
Sequence File   : I:\HPLC2011Q3\CURLY\SEQUENCE\HPLC59PG144.S
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG144\HPLC59PG144 2011-08-24 19-37-12\
                  AMMONIA.M
Last changed    : 8/22/2011 5:50:38 PM by KAW/KHB
Analysis Method : I:\HPLC2011Q3\CURLY\METHODS\HPLC59PG144.M
Last changed    : 8/25/2011 8:28:49 AM by AMP
```




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

Sorted By             :      Signal
Calib. Data Modified  :      Thursday, August 25, 2011 8:28:38 AM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1

RetTime  Type     Area      Amt/Area    Amount   Grp   Name
 [min]          [uS*s]                [ug/mL]
-------|------|----------|----------|----------|--|------------------
  4.810 BV      371.55280  1.43281e-2   5.32365    Ammonia

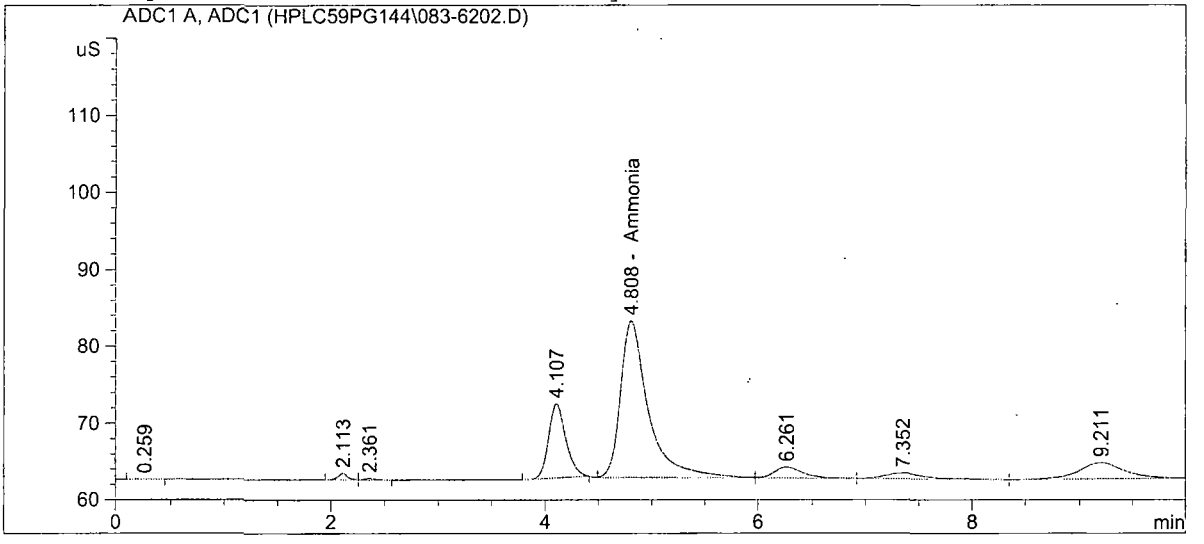
Totals :                                5.32365


==========================================================================
                          *** End of Report ***
```

Data File I:\HPLC2011Q3\CURLY\DATA\AUG11\HPLC59PG144\083-6202.D
Sample Name: MSD R1-FH-I1-I2 0811-59

Acq. Operator	: AMP	Seq. Line	: 62
Acq. Instrument	: Curly	Location	: Vial 83
Injection Date	: 8/26/2011 1:54:50 AM	Inj	: 2
		Inj Volume	: 25.0 µl

Sequence File : I:\HPLC2011Q3\CURLY\SEQUENCE\HPLC59PG144.S
Acq. Method : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG144\HPLC59PG144 2011-08-24 19-37-12\AMMONIA.M
Last changed : 8/22/2011 5:50:38 PM by KAW/KHB
Analysis Method : I:\HPLC2011Q3\CURLY\METHODS\HPLC59PG144.M
Last changed : 8/25/2011 8:28:49 AM by AMP



External Standard Report

Sorted By : Signal
Calib. Data Modified : Thursday, August 25, 2011 8:28:38 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1

RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.808	BV	371.50125	1.43277e-2	5.32276		Ammonia

Totals : 5.32276

*** End of Report ***

Calibration Curve Chromatograms

Calibration Table

Calib. Data Modified : Thursday, August 25, 2011 8:28:38 AM

Rel. Reference Window : 20.000 %
Abs. Reference Window : 0.000 min
Rel. Non-ref. Window : 20.000 %
Abs. Non-ref. Window : 0.000 min
Uncalibrated Peaks : not reported
Partial Calibration : Yes, identified peaks are recalibrated
Correct All Ret. Times: No, only for identified peaks

Curve Type : Quadratic
Origin : Connected
Weight : Linear (Resp)

Recalibration Settings:
Average Response : Average all calibrations
Average Retention Time: Floating Average New 75%

Calibration Report Options :
Printout of recalibrations within a sequence:
Calibration Table after Recalibration
Normal Report after Recalibration
If the sequence is done with bracketing:
Results of first cycle (ending previous bracket)

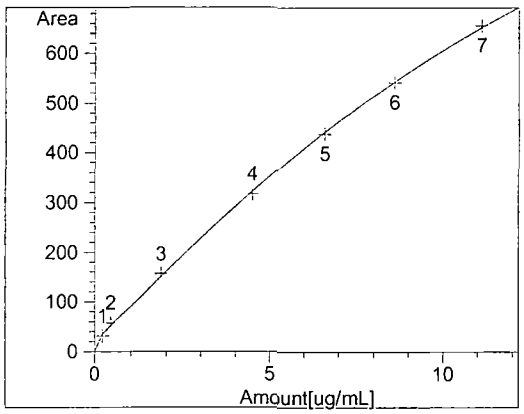
Signal 1: ADC1 A, ADC1

RetTime [min]	Sig	Lvl	Amount [ug/mL]	Area	Amt/Area	Ref	Grp	Name
4.818	1	1	2.35000e-1	31.31809	7.50365e-3			Ammonia
		2	4.70000e-1	57.60343	8.15924e-3			
		3	1.85100	156.56433	1.18226e-2			
		4	4.49500	317.08989	1.41758e-2			
		5	6.58600	438.25063	1.50279e-2			
		6	8.58200	541.46338	1.58496e-2			
		7	11.10600	656.17249	1.69254e-2			

Peak Sum Table

No Entries in table

Calibration Curves



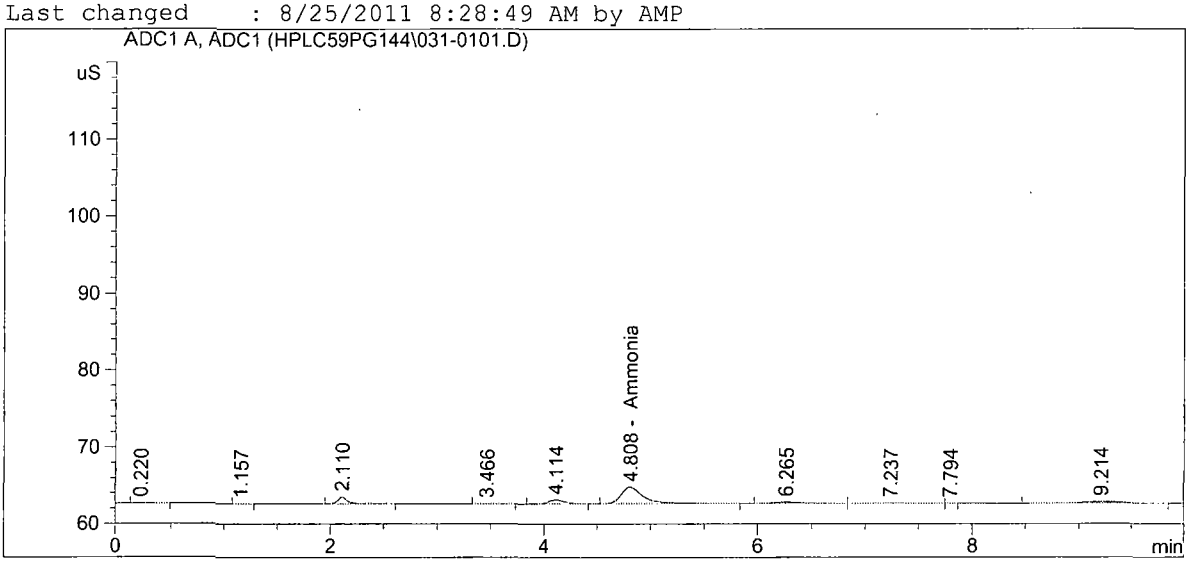
Ammonia at exp. RT: 4.818
ADC1 A, ADC1
Correlation: 0.99956
Residual Std. Dev.: 5.23798
Formula: $y = ax^2 + bx + c$
a: -1.62704
b: 75.23322
c: 17.14983
x: Amount
y: Area

Calibration Level Weights:

Level 1	: 1
Level 2	: 0.543684
Level 3	: 0.200033
Level 4	: 0.098767
Level 5	: 0.071462
Level 6	: 0.05784
Level 7	: 0.047728

ta File I:\HPLC2011Q3\CURLY\DATA\AUG11\HPLC59PG144\031-0101.D
mple Name: HPLC59pg140 #1

```
==========================================================================
Acq. Operator   : AMP                              Seq. Line :   1
Acq. Instrument : Curly                             Location : Vial 31
Injection Date  : 8/24/2011 7:39:05 PM                   Inj :   1
                                                  Inj Volume : 25.0 µl
Sequence File   : I:\HPLC2011Q3\CURLY\SEQUENCE\HPLC59PG144.S
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG144\HPLC59PG144 2011-08-24 19-37-12\
                  AMMONIA.M
Last changed    : 8/22/2011 5:50:38 PM by KAW/KHB
Analysis Method : I:\HPLC2011Q3\CURLY\METHODS\HPLC59PG144.M
Last changed    : 8/25/2011 8:28:49 AM by AMP
```

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

Sorted By             :      Signal
Calib. Data Modified  :      Thursday, August 25, 2011 8:28:38 AM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1

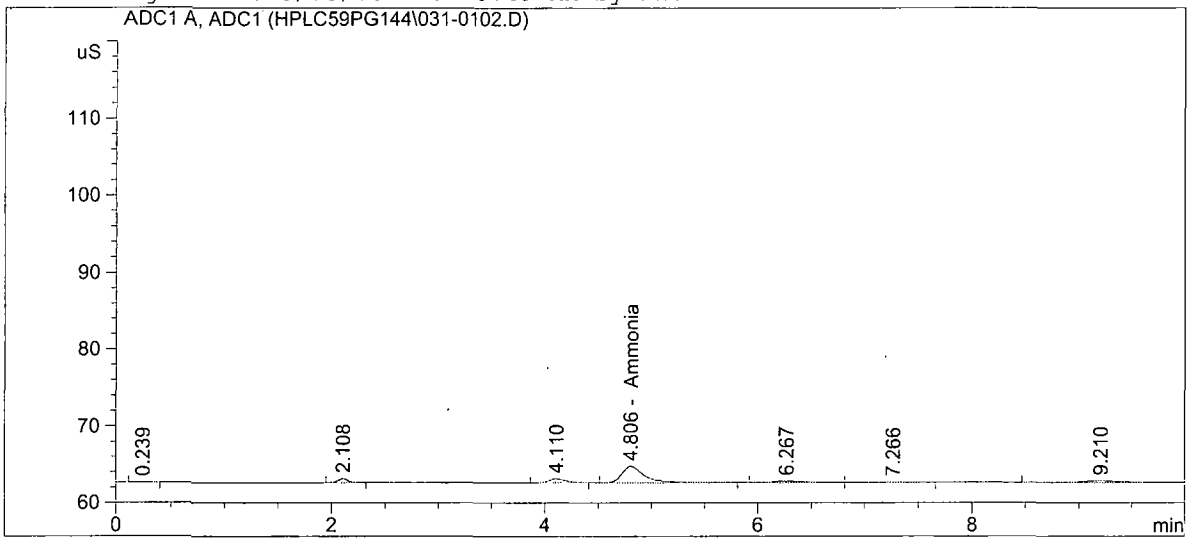
RetTime  Type     Area      Amt/Area    Amount    Grp   Name
 [min]          [uS*s]                [ug/mL]
-------|------|----------|----------|----------|--|------------------
  4.808 BB       31.50267  6.76458e-32.13102e-1    Ammonia

Totals :                               2.13102e-1


==========================================================================
                          *** End of Report ***
```

ta File I:\HPLC2011Q3\CURLY\DATA\AUG11\HPLC59PG144\031-0102.D
ample Name: HPLC59pg140 #1

```
Acq. Operator   : AMP                                  Seq. Line :   1
Acq. Instrument : Curly                               Location : Vial 31
Injection Date  : 8/24/2011 7:50:55 PM                     Inj :   2
                                                     Inj Volume : 25.0 µl
Sequence File   : I:\HPLC2011Q3\CURLY\SEQUENCE\HPLC59PG144.S
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG144\HPLC59PG144 2011-08-24 19-37-12\
                  AMMONIA.M
Last changed    : 8/22/2011 5:50:38 PM by KAW/KHB
Analysis Method : I:\HPLC2011Q3\CURLY\METHODS\HPLC59PG144.M
Last changed    : 8/25/2011 8:28:49 AM by AMP
```



External Standard Report

```
Sorted By             :      Signal
Calib. Data Modified  :      Thursday, August 25, 2011 8:28:38 AM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1

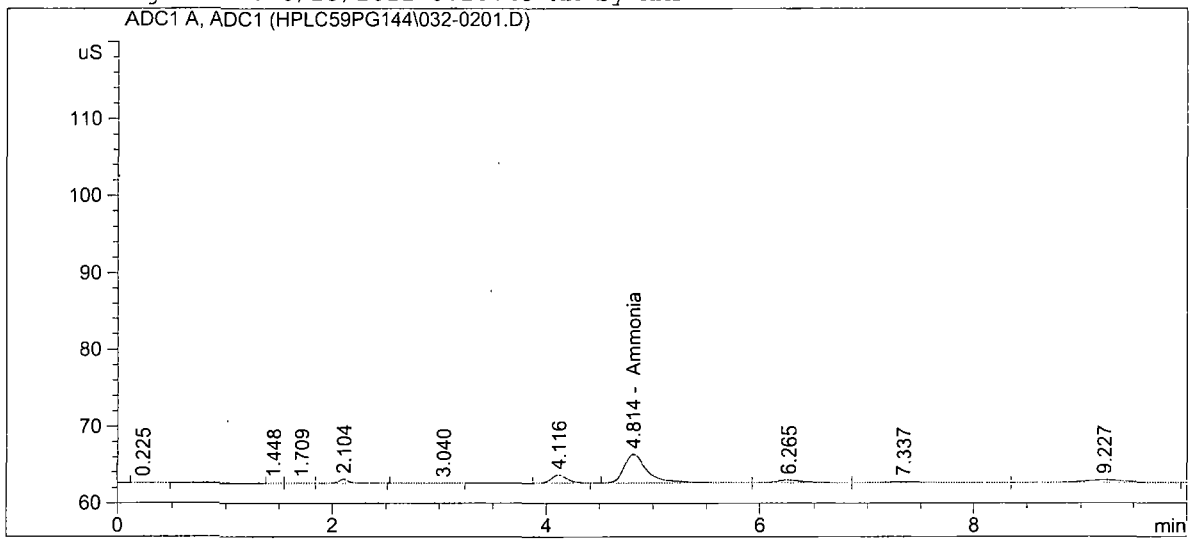
RetTime  Type     Area      Amt/Area    Amount    Grp   Name
 [min]          [uS*s]                [ug/mL]
-------|------|----------|----------|----------|--|-----------------
  4.806 BB       31.13350  6.76458e-32.10605e-1    Ammonia

Totals :                               2.10605e-1
```

*** End of Report ***

Data File I:\HPLC2011Q3\CURLY\DATA\AUG11\HPLC59PG144\032-0201.D
Sample Name: HPLC59pg140 #2

```
==========================================================================
Acq. Operator   : AMP                              Seq. Line :   2
Acq. Instrument : Curly                             Location : Vial 32
Injection Date  : 8/24/2011 8:02:39 PM                   Inj :   1
                                                  Inj Volume : 25.0 µl
Sequence File   : I:\HPLC2011Q3\CURLY\SEQUENCE\HPLC59PG144.S
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG144\HPLC59PG144 2011-08-24 19-37-12\
                  AMMONIA.M
Last changed    : 8/22/2011 5:50:38 PM by KAW/KHB
Analysis Method : I:\HPLC2011Q3\CURLY\METHODS\HPLC59PG144.M
Last changed    : 8/25/2011 8:28:49 AM by AMP
```




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

Sorted By             :      Signal
Calib. Data Modified  :      Thursday, August 25, 2011 8:28:38 AM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1

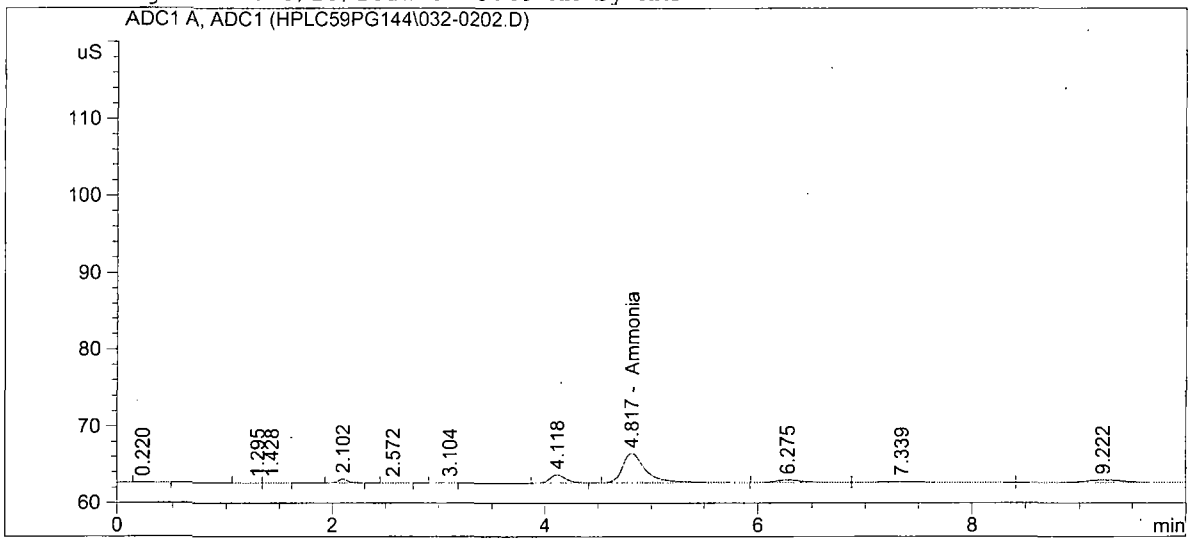
RetTime  Type     Area      Amt/Area    Amount    Grp   Name
 [min]          [uS*s]                [ug/mL]
-------|------|----------|----------|----------|--|------------------
  4.814 BB       57.31508  9.42487e-35.40187e-1    Ammonia

Totals :                               5.40187e-1


==========================================================================
                          *** End of Report ***
```

Data File I:\HPLC2011Q3\CURLY\DATA\AUG11\HPLC59PG144\032-0202.D
Sample Name: HPLC59pg140 #2

```
==========================================================================
Acq. Operator   : AMP                              Seq. Line :   2
Acq. Instrument : Curly                             Location : Vial 32
Injection Date  : 8/24/2011 8:14:35 PM                   Inj :   2
                                                  Inj Volume : 25.0 µl
Sequence File   : I:\HPLC2011Q3\CURLY\SEQUENCE\HPLC59PG144.S
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG144\HPLC59PG144 2011-08-24 19-37-12\
                  AMMONIA.M
Last changed    : 8/22/2011 5:50:38 PM by KAW/KHB
Analysis Method : I:\HPLC2011Q3\CURLY\METHODS\HPLC59PG144.M
Last changed    : 8/25/2011 8:28:49 AM by AMP
```




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

Sorted By             :      Signal
Calib. Data Modified  :      Thursday, August 25, 2011 8:28:38 AM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1

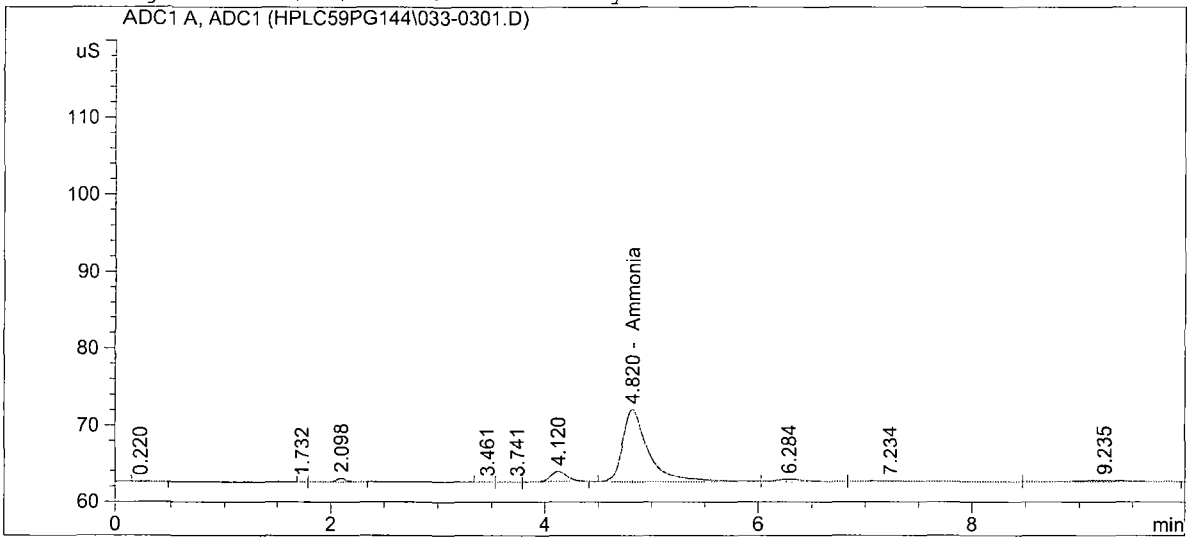
RetTime  Type     Area      Amt/Area    Amount    Grp   Name
 [min]          [uS*s]                [ug/mL]
-------|------|----------|----------|----------|--|------------------
  4.817 BB       57.89177  9.46659e-35.48037e-1    Ammonia

Totals :                               5.48037e-1


==========================================================================
                           *** End of Report ***
```

ta File I:\HPLC2011Q3\CURLY\DATA\AUG11\HPLC59PG144\033-0301.D
mple Name: HPLC59pg140 #3

```
Acq. Operator   : AMP                                  Seq. Line :   3
Acq. Instrument : Curly                                 Location : Vial 33
Injection Date  : 8/24/2011 8:26:24 PM                      Inj :   1
                                                      Inj Volume : 25.0 µl
Sequence File   : I:\HPLC2011Q3\CURLY\SEQUENCE\HPLC59PG144.S
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG144\HPLC59PG144 2011-08-24 19-37-12\
                  AMMONIA.M
Last changed    : 8/22/2011 5:50:38 PM by KAW/KHB
Analysis Method : I:\HPLC2011Q3\CURLY\METHODS\HPLC59PG144.M
Last changed    : 8/25/2011 8:28:49 AM by AMP
```




```
                        External Standard Report

Sorted By             :      Signal
Calib. Data Modified  :      Thursday, August 25, 2011 8:28:38 AM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1

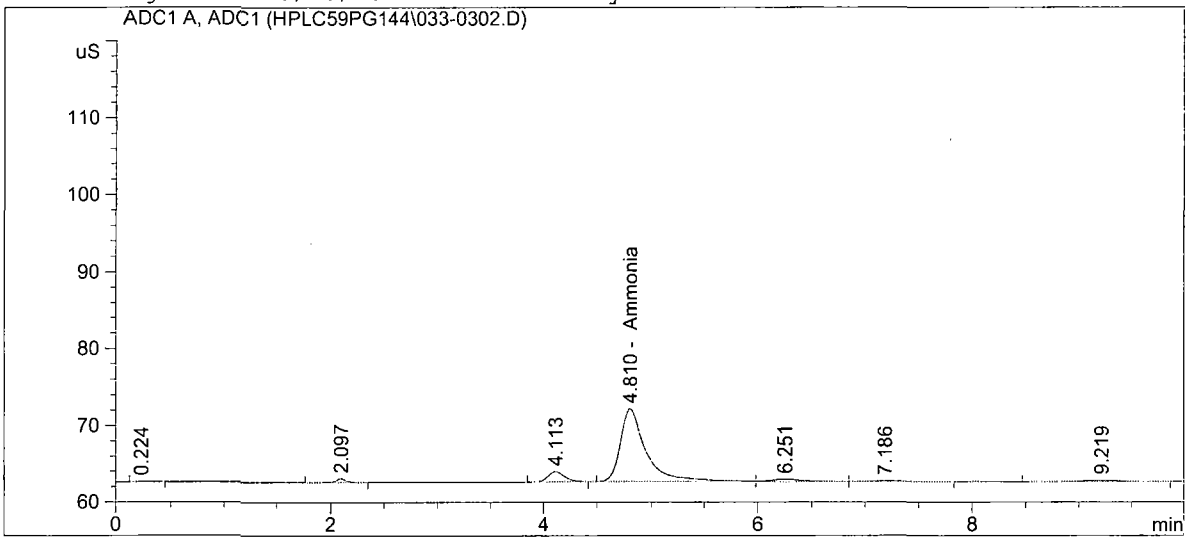
RetTime  Type     Area      Amt/Area    Amount   Grp   Name
 [min]          [uS*s]                 [ug/mL]
-------|------|----------|----------|----------|--|------------------
  4.820 BB      156.16219  1.23471e-2   1.92816    Ammonia

Totals :                                 1.92816


                           *** End of Report ***
```

ta File I:\HPLC2011Q3\CURLY\DATA\AUG11\HPLC59PG144\033-0302.D
ample Name: HPLC59pg140 #3

```
==========================================================================
Acq. Operator   : AMP                              Seq. Line :   3
Acq. Instrument : Curly                             Location : Vial 33
Injection Date  : 8/24/2011 8:38:13 PM                   Inj :   2
                                                  Inj Volume : 25.0 µl
Sequence File   : I:\HPLC2011Q3\CURLY\SEQUENCE\HPLC59PG144.S
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG144\HPLC59PG144 2011-08-24 19-37-12\
                  AMMONIA.M
Last changed    : 8/22/2011 5:50:38 PM by KAW/KHB
Analysis Method : I:\HPLC2011Q3\CURLY\METHODS\HPLC59PG144.M
Last changed    : 8/25/2011 8:28:49 AM by AMP
```




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

Sorted By             :      Signal
Calib. Data Modified  :      Thursday, August 25, 2011 8:28:38 AM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1

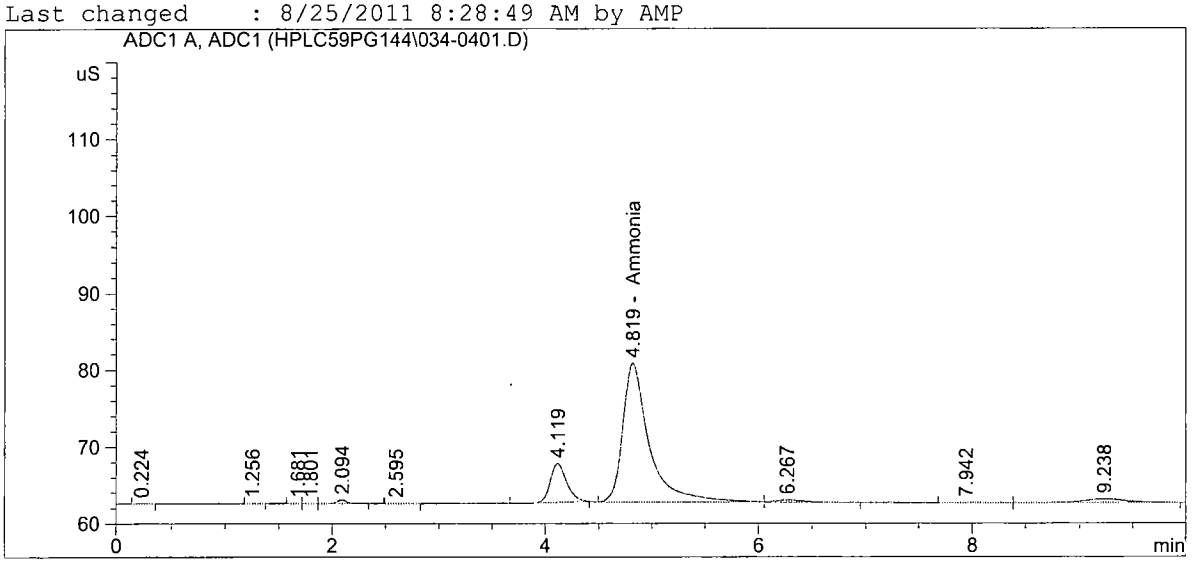
RetTime  Type     Area      Amt/Area    Amount   Grp   Name
 [min]          [uS*s]                [ug/mL]
-------|------|----------|----------|----------|--|------------------
  4.810 BV      156.96648  1.23582e-2   1.93982    Ammonia

Totals :                                1.93982


==========================================================================
                           *** End of Report ***
```

Data File I:\HPLC2011Q3\CURLY\DATA\AUG11\HPLC59PG144\034-0401.D
Sample Name: HPLC59pg140 #4

```
==========================================================================
Acq. Operator   : AMP                              Seq. Line :   4
Acq. Instrument : Curly                             Location : Vial 34
Injection Date  : 8/24/2011 8:50:05 PM                   Inj :   1
                                                  Inj Volume : 25.0 µl
Sequence File   : I:\HPLC2011Q3\CURLY\SEQUENCE\HPLC59PG144.S
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG144\HPLC59PG144 2011-08-24 19-37-12\
                  AMMONIA.M
Last changed    : 8/22/2011 5:50:38 PM by KAW/KHB
Analysis Method : I:\HPLC2011Q3\CURLY\METHODS\HPLC59PG144.M
Last changed    : 8/25/2011 8:28:49 AM by AMP
```




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

Sorted By             :      Signal
Calib. Data Modified  :      Thursday, August 25, 2011 8:28:38 AM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1

RetTime  Type     Area      Amt/Area    Amount    Grp   Name
 [min]          [uS*s]                [ug/mL]
-------|------|----------|----------|----------|--|------------------
  4.819 BV      317.61600  1.39018e-2   4.41543    Ammonia

Totals :                                 4.41543


==========================================================================
                          *** End of Report ***
```

Data File I:\HPLC2011Q3\CURLY\DATA\AUG11\HPLC59PG144\034-0402.D
Sample Name: HPLC59pg140 #4

```
==========================================================================
Acq. Operator   : AMP                              Seq. Line :   4
Acq. Instrument : Curly                             Location : Vial 34
Injection Date  : 8/24/2011 9:01:55 PM                   Inj :   2
                                                  Inj Volume : 25.0 µl
Sequence File   : I:\HPLC2011Q3\CURLY\SEQUENCE\HPLC59PG144.S
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG144\HPLC59PG144 2011-08-24 19-37-12\
                  AMMONIA.M
Last changed    : 8/22/2011 5:50:38 PM by KAW/KHB
Analysis Method : I:\HPLC2011Q3\CURLY\METHODS\HPLC59PG144.M
Last changed    : 8/25/2011 8:28:49 AM by AMP
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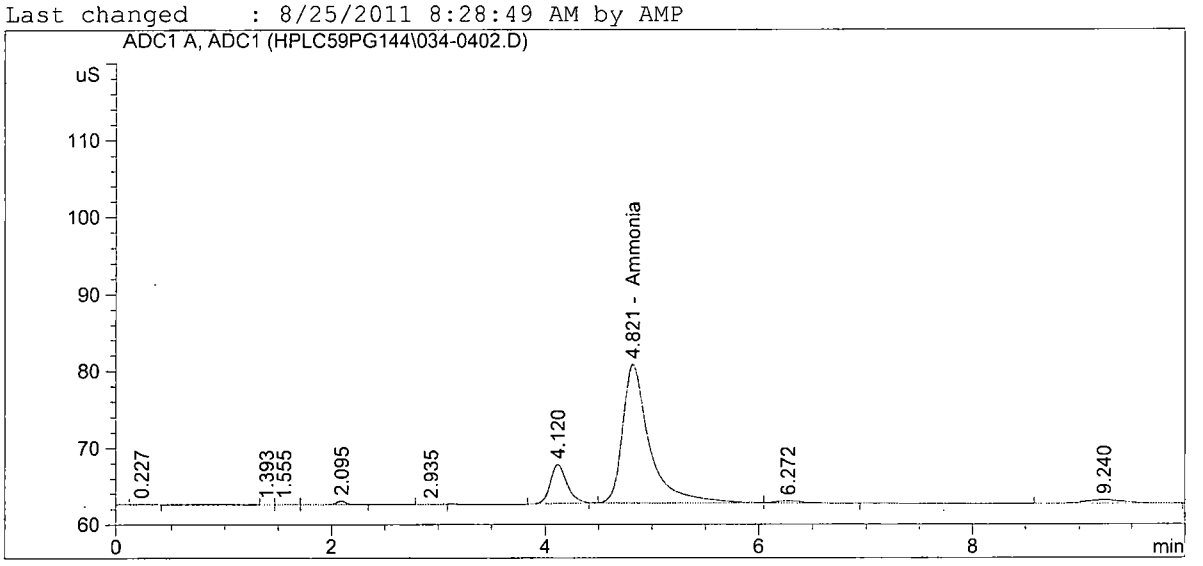



```
==========================================================================
                        External Standard Report
==========================================================================

Sorted By             :      Signal
Calib. Data Modified  :      Thursday, August 25, 2011 8:28:38 AM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1

RetTime  Type     Area      Amt/Area    Amount    Grp   Name
 [min]          [uS*s]                [ug/mL]
-------|------|----------|----------|----------|--|------------------
  4.821 BV      316.56378  1.38934e-2   4.39815    Ammonia

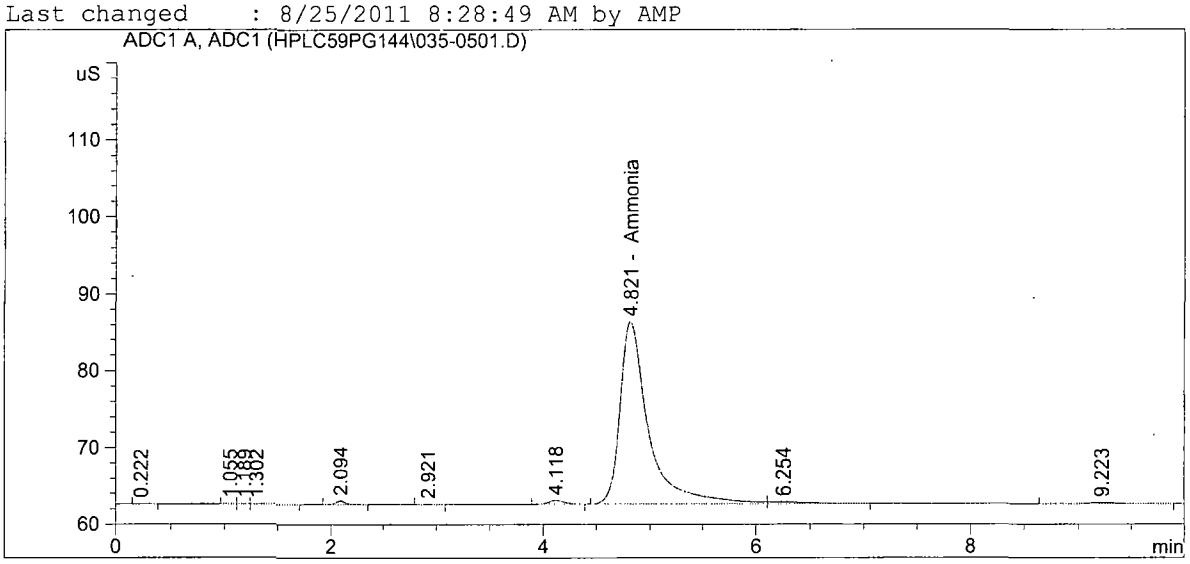
Totals :                                 4.39815


==========================================================================
                           *** End of Report ***
```

Data File I:\HPLC2011Q3\CURLY\DATA\AUG11\HPLC59PG144\035-0501.D
Sample Name: HPLC59pg140 #5

Acq. Operator	: AMP	Seq. Line	: 5
Acq. Instrument	: Curly	Location	: Vial 35
Injection Date	: 8/24/2011 9:13:48 PM	Inj	: 1
		Inj Volume	: 25.0 µl

Sequence File : I:\HPLC2011Q3\CURLY\SEQUENCE\HPLC59PG144.S
Acq. Method : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG144\HPLC59PG144 2011-08-24 19-37-12\AMMONIA.M
Last changed : 8/22/2011 5:50:38 PM by KAW/KHB
Analysis Method : I:\HPLC2011Q3\CURLY\METHODS\HPLC59PG144.M
Last changed : 8/25/2011 8:28:49 AM by AMP



External Standard Report

Sorted By : Signal
Calib. Data Modified : Thursday, August 25, 2011 8:28:38 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1

RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.821	BV	438.46265	1.48684e-2	6.51923		Ammonia

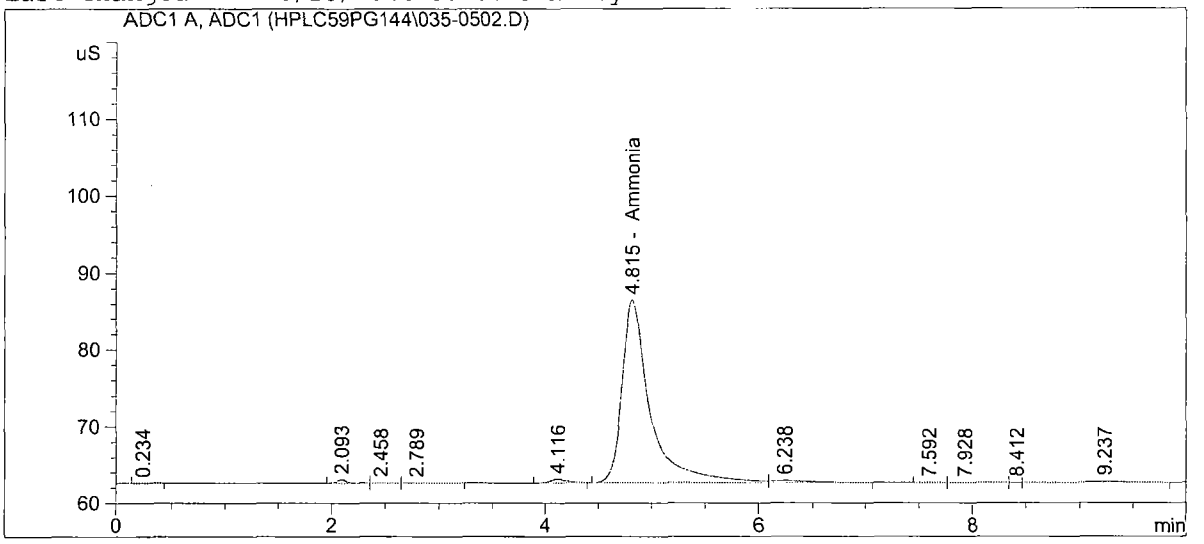
Totals : 6.51923

*** End of Report ***

Data File I:\HPLC2011Q3\CURLY\DATA\AUG11\HPLC59PG144\035-0502.D
Sample Name: HPLC59pg140 #5

Acq. Operator	: AMP	Seq. Line	: 5
Acq. Instrument	: Curly	Location	: Vial 35
Injection Date	: 8/24/2011 9:25:35 PM	Inj	: 2
		Inj Volume	: 25.0 µl

Sequence File : I:\HPLC2011Q3\CURLY\SEQUENCE\HPLC59PG144.S
Acq. Method : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG144\HPLC59PG144 2011-08-24 19-37-12\AMMONIA.M
Last changed : 8/22/2011 5:50:38 PM by KAW/KHB
Analysis Method : I:\HPLC2011Q3\CURLY\METHODS\HPLC59PG144.M
Last changed : 8/25/2011 8:28:49 AM by AMP



External Standard Report

Sorted By : Signal
Calib. Data Modified : Thursday, August 25, 2011 8:28:38 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1

RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.815	BV	438.03860	1.48649e-2	6.51138		Ammonia

Totals : 6.51138

*** End of Report ***

ata File I:\HPLC2011Q3\CURLY\DATA\AUG11\HPLC59PG144\036-0601.D
mple Name: HPLC59pg140 #6

```
==========================================================================
Acq. Operator   : AMP                              Seq. Line :   6
Acq. Instrument : Curly                             Location : Vial 36
Injection Date  : 8/24/2011 9:37:29 PM                   Inj :   1
                                                  Inj Volume : 25.0 µl
Sequence File   : I:\HPLC2011Q3\CURLY\SEQUENCE\HPLC59PG144.S
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG144\HPLC59PG144 2011-08-24 19-37-12\
                  AMMONIA.M
Last changed    : 8/22/2011 5:50:38 PM by KAW/KHB
Analysis Method : I:\HPLC2011Q3\CURLY\METHODS\HPLC59PG144.M
Last changed    : 8/25/2011 8:28:49 AM by AMP
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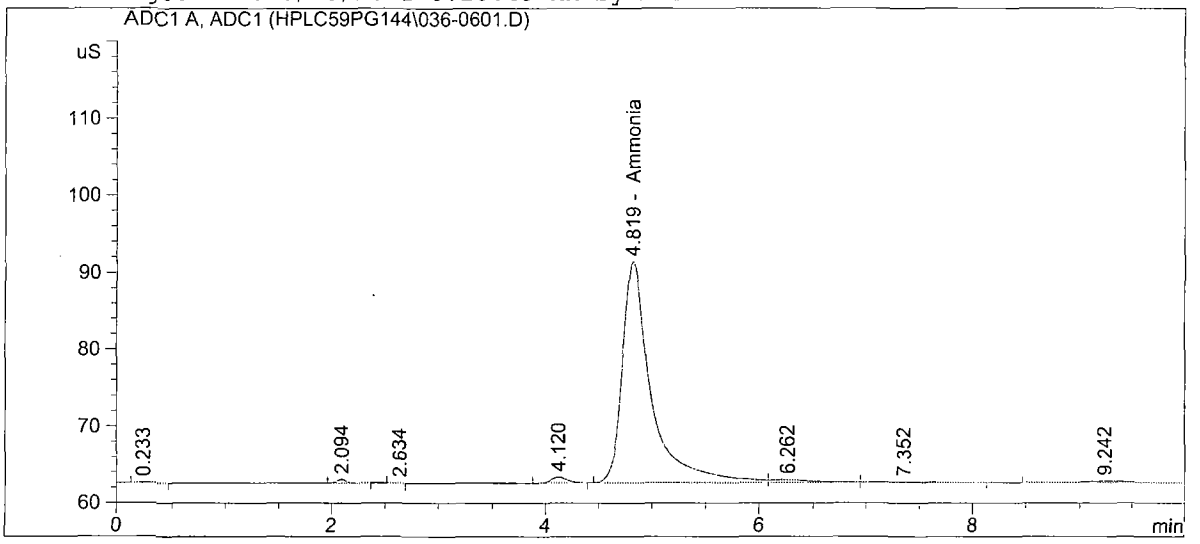


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==========================================================================
                        External Standard Report
==========================================================================

Sorted By             :      Signal
Calib. Data Modified  :      Thursday, August 25, 2011 8:28:38 AM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1

RetTime  Type     Area      Amt/Area    Amount   Grp   Name
 [min]          [uS*s]                [ug/mL]
-------|------|----------|----------|----------|--|------------------
  4.819 BV      542.16595  1.57978e-2   8.56504    Ammonia

Totals :                                 8.56504


==========================================================================
                          *** End of Report ***
```

ta File I:\HPLC2011Q3\CURLY\DATA\AUG11\HPLC59PG144\036-0602.D
mple Name: HPLC59pg140 #6

```
Acq. Operator   : AMP                                  Seq. Line :   6
Acq. Instrument : Curly                                 Location : Vial 36
Injection Date  : 8/24/2011 9:49:16 PM                      Inj :   2
                                                      Inj Volume : 25.0 µl
Sequence File   : I:\HPLC2011Q3\CURLY\SEQUENCE\HPLC59PG144.S
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG144\HPLC59PG144 2011-08-24 19-37-12\
                  AMMONIA.M
Last changed    : 8/22/2011 5:50:38 PM by KAW/KHB
Analysis Method : I:\HPLC2011Q3\CURLY\METHODS\HPLC59PG144.M
Last changed    : 8/25/2011 8:28:49 AM by AMP
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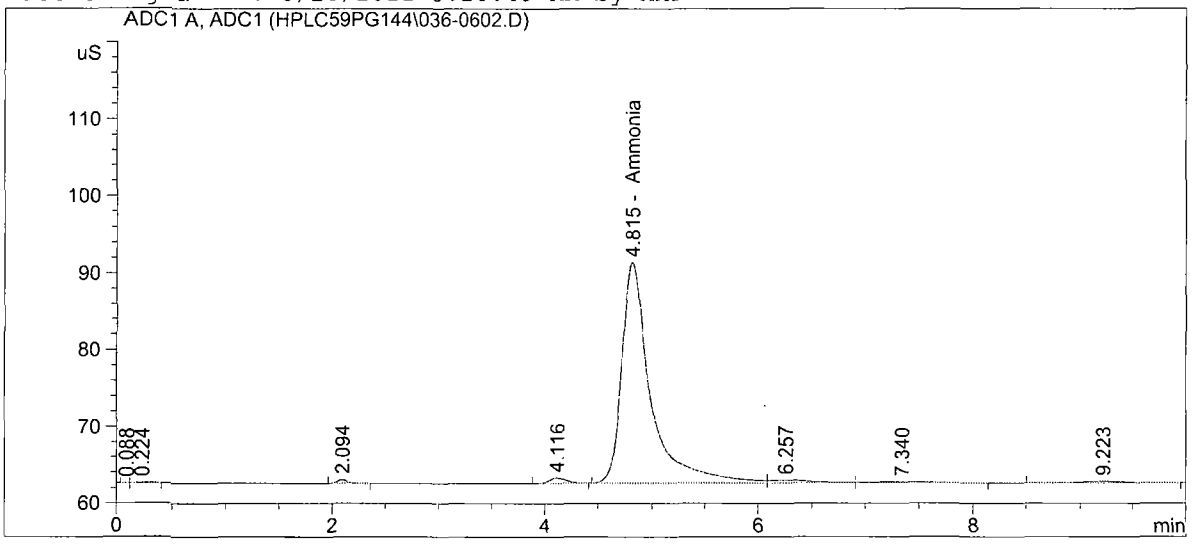



```
                        External Standard Report

Sorted By             :      Signal
Calib. Data Modified  :      Thursday, August 25, 2011 8:28:38 AM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1

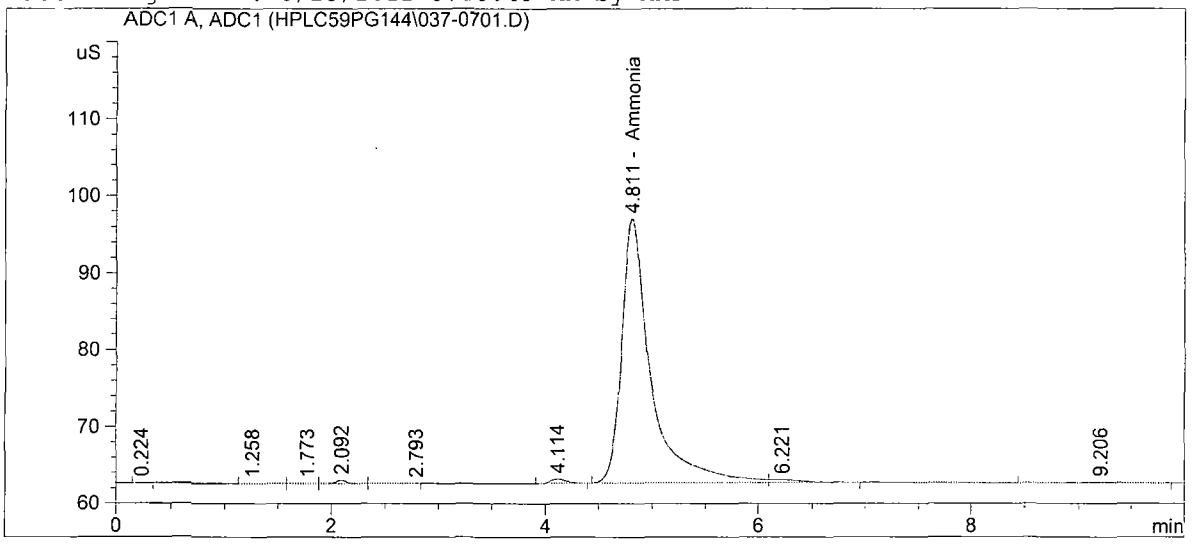
RetTime  Type     Area      Amt/Area    Amount   Grp   Name
 [min]          [uS*s]                [ug/mL]
-------|------|----------|----------|----------|--|------------------
  4.815 BV      540.76080  1.57841e-2   8.53540    Ammonia

Totals :                                 8.53540


                           *** End of Report ***
```

ta File I:\HPLC2011Q3\CURLY\DATA\AUG11\HPLC59PG144\037-0701.D
mple Name: HPLC59pg140 #7

```
Acq. Operator   : AMP                                  Seq. Line :   7
Acq. Instrument : Curly                                 Location : Vial 37
Injection Date  : 8/24/2011 10:01:05 PM                      Inj :   1
                                                      Inj Volume : 25.0 µl
Sequence File   : I:\HPLC2011Q3\CURLY\SEQUENCE\HPLC59PG144.S
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG144\HPLC59PG144 2011-08-24 19-37-12\
                  AMMONIA.M
Last changed    : 8/22/2011 5:50:38 PM by KAW/KHB
Analysis Method : I:\HPLC2011Q3\CURLY\METHODS\HPLC59PG144.M
Last changed    : 8/25/2011 8:28:49 AM by AMP
```



External Standard Report

```
Sorted By             :      Signal
Calib. Data Modified  :      Thursday, August 25, 2011 8:28:38 AM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1

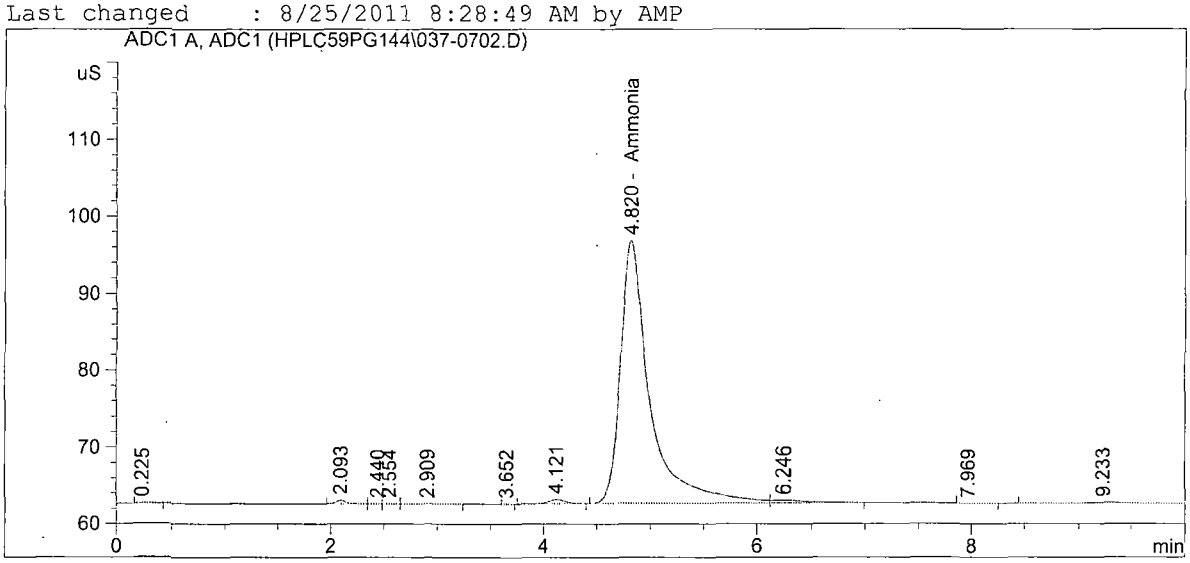
RetTime  Type     Area      Amt/Area    Amount   Grp   Name
 [min]          [uS*s]                [ug/mL]
-------|------|----------|----------|----------|--|-----------------
  4.811 BV      658.05713  1.71137e-2  11.26180    Ammonia

Totals :                                11.26180
```

*** End of Report ***

ta File I:\HPLC2011Q3\CURLY\DATA\AUG11\HPLC59PG144\037-0702.D
mple Name: HPLC59pg140 #7

```
Acq. Operator   : AMP                                  Seq. Line :   7
Acq. Instrument : Curly                                 Location : Vial 37
Injection Date  : 8/24/2011 10:12:56 PM                      Inj :   2
                                                      Inj Volume : 25.0 µl
Sequence File   : I:\HPLC2011Q3\CURLY\SEQUENCE\HPLC59PG144.S
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG144\HPLC59PG144 2011-08-24 19-37-12\
                  AMMONIA.M
Last changed    : 8/22/2011 5:50:38 PM by KAW/KHB
Analysis Method : I:\HPLC2011Q3\CURLY\METHODS\HPLC59PG144.M
Last changed    : 8/25/2011 8:28:49 AM by AMP
```




```
                        External Standard Report

Sorted By             :      Signal
Calib. Data Modified  :      Thursday, August 25, 2011 8:28:38 AM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1

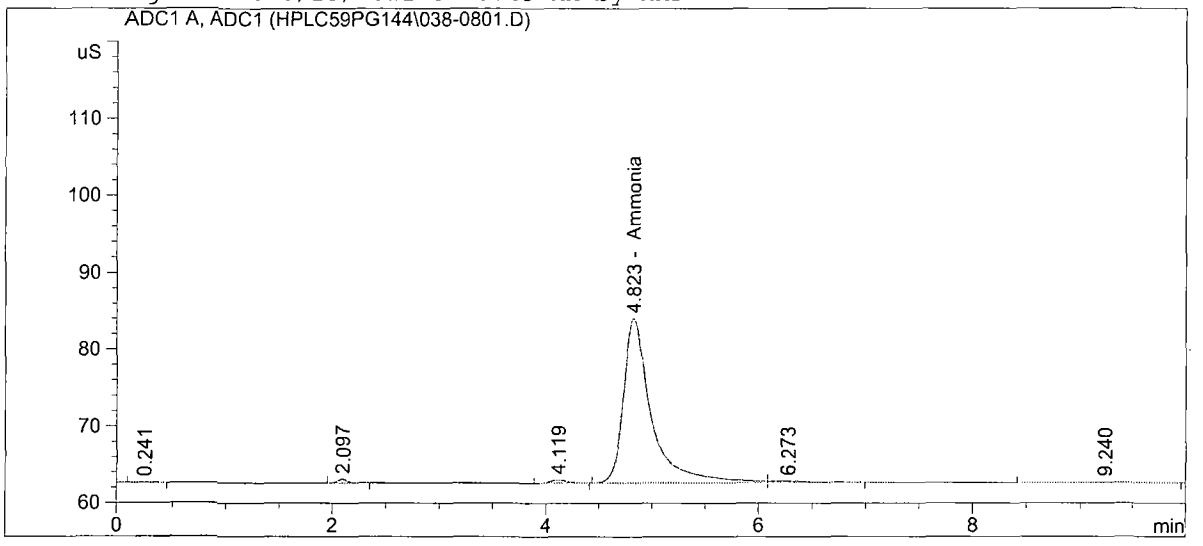
RetTime  Type     Area      Amt/Area    Amount   Grp   Name
 [min]          [uS*s]                [ug/mL]
-------|------|----------|----------|----------|--|------------------
  4.820 BV      654.28784  1.70636e-2  11.16451     Ammonia

Totals :                                11.16451


                          *** End of Report ***
```

ta File I:\HPLC2011Q3\CURLY\DATA\AUG11\HPLC59PG144\038-0801.D
mple Name: HPLC59pg140 #SS

```
==========================================================================
Acq. Operator   : AMP                                 Seq. Line :   8
Acq. Instrument : Curly                               Location : Vial 38
Injection Date  : 8/24/2011 10:24:54 PM                    Inj :   1
                                                    Inj Volume : 25.0 µl
Sequence File   : I:\HPLC2011Q3\CURLY\SEQUENCE\HPLC59PG144.S
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG144\HPLC59PG144 2011-08-24 19-37-12\
                  AMMONIA.M
Last changed    : 8/22/2011 5:50:38 PM by KAW/KHB
Analysis Method : I:\HPLC2011Q3\CURLY\METHODS\HPLC59PG144.M
Last changed    : 8/25/2011 8:28:49 AM by AMP
```




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

Sorted By             :      Signal
Calib. Data Modified  :      Thursday, August 25, 2011 8:28:38 AM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1

RetTime  Type     Area      Amt/Area    Amount    Grp   Name
 [min]          [uS*s]                [ug/mL]
-------|------|----------|----------|----------|--|------------------
  4.823 BV      391.87085  1.44896e-2   5.67803    Ammonia

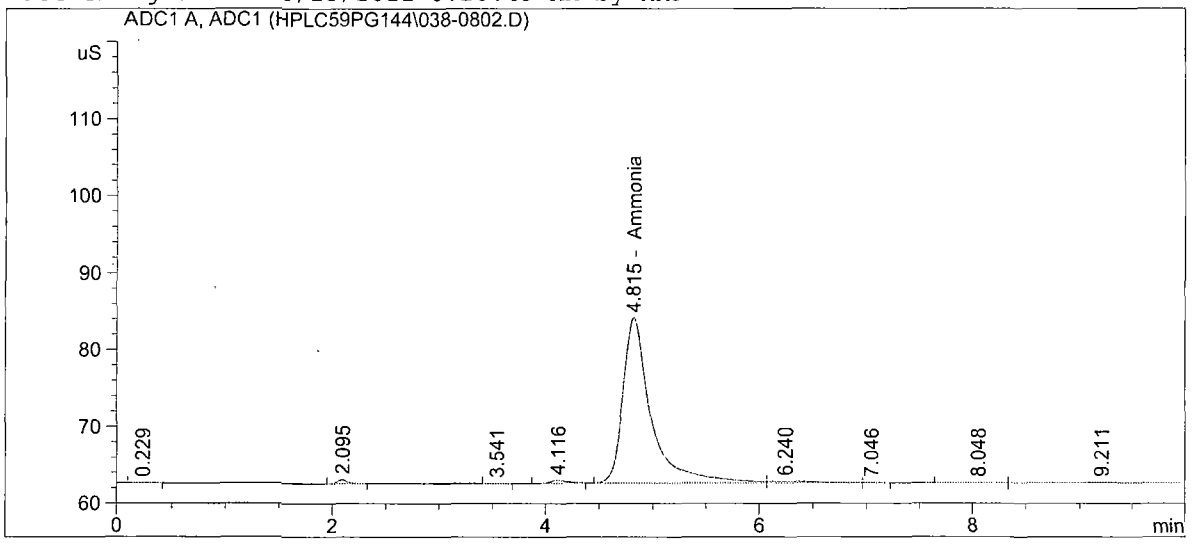
Totals :                                5.67803

==========================================================================
                          *** End of Report ***
```

Data File I:\HPLC2011Q3\CURLY\DATA\AUG11\HPLC59PG144\038-0802.D
Sample Name: HPLC59pg140 #SS

Acq. Operator	: AMP	Seq. Line	: 8
Acq. Instrument	: Curly	Location	: Vial 38
Injection Date	: 8/24/2011 10:36:44 PM	Inj	: 2
		Inj Volume	: 25.0 µl

Sequence File : I:\HPLC2011Q3\CURLY\SEQUENCE\HPLC59PG144.S
Acq. Method : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG144\HPLC59PG144 2011-08-24 19-37-12\AMMONIA.M
Last changed : 8/22/2011 5:50:38 PM by KAW/KHB
Analysis Method : I:\HPLC2011Q3\CURLY\METHODS\HPLC59PG144.M
Last changed : 8/25/2011 8:28:49 AM by AMP



External Standard Report

Sorted By : Signal
Calib. Data Modified : Thursday, August 25, 2011 8:28:38 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1

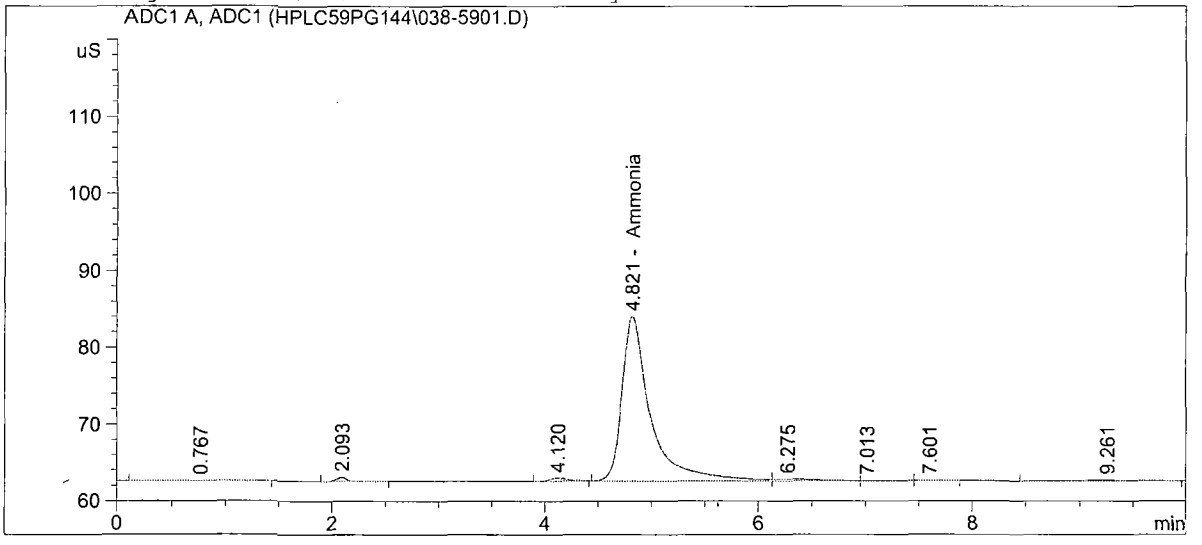
RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.815	BV	391.97656	1.44904e-2	5.67990		Ammonia

Totals : 5.67990

*** End of Report ***

Data File I:\HPLC2011Q3\CURLY\DATA\AUG11\HPLC59PG144\038-5901.D
Sample Name: HPLC59pg140 #SS

```
==========================================================================
Acq. Operator   : AMP                                 Seq. Line :  59
Acq. Instrument : Curly                               Location : Vial 38
Injection Date  : 8/26/2011 12:31:54 AM                    Inj :   1
                                                    Inj Volume : 25.0 µl
Sequence File   : I:\HPLC2011Q3\CURLY\SEQUENCE\HPLC59PG144.S
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG144\HPLC59PG144 2011-08-24 19-37-12\
                  AMMONIA.M
Last changed    : 8/22/2011 5:50:38 PM by KAW/KHB
Analysis Method : I:\HPLC2011Q3\CURLY\METHODS\HPLC59PG144.M
Last changed    : 8/25/2011 8:28:49 AM by AMP
```




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

Sorted By             :      Signal
Calib. Data Modified  :      Thursday, August 25, 2011 8:28:38 AM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1

RetTime  Type     Area      Amt/Area    Amount    Grp   Name
 [min]          [uS*s]                [ug/mL]
-------|------|----------|----------|----------|--|------------------
  4.821 BV      397.30832  1.45331e-2   5.77410    Ammonia

Totals :                                5.77410


==========================================================================
                          *** End of Report ***
```

Data File I:\HPLC2011Q3\CURLY\DATA\AUG11\HPLC59PG144\038-5902.D
Sample Name: HPLC59pg140 #SS

```
==========================================================================
Acq. Operator   : AMP                                Seq. Line :  59
Acq. Instrument : Curly                               Location : Vial 38
Injection Date  : 8/26/2011 12:43:51 AM                    Inj :  2
                                                    Inj Volume : 25.0 µl
Sequence File   : I:\HPLC2011Q3\CURLY\SEQUENCE\HPLC59PG144.S
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG144\HPLC59PG144 2011-08-24 19-37-12\
                  AMMONIA.M
Last changed    : 8/22/2011 5:50:38 PM by KAW/KHB
Analysis Method : I:\HPLC2011Q3\CURLY\METHODS\HPLC59PG144.M
Last changed    : 8/25/2011 8:28:49 AM by AMP
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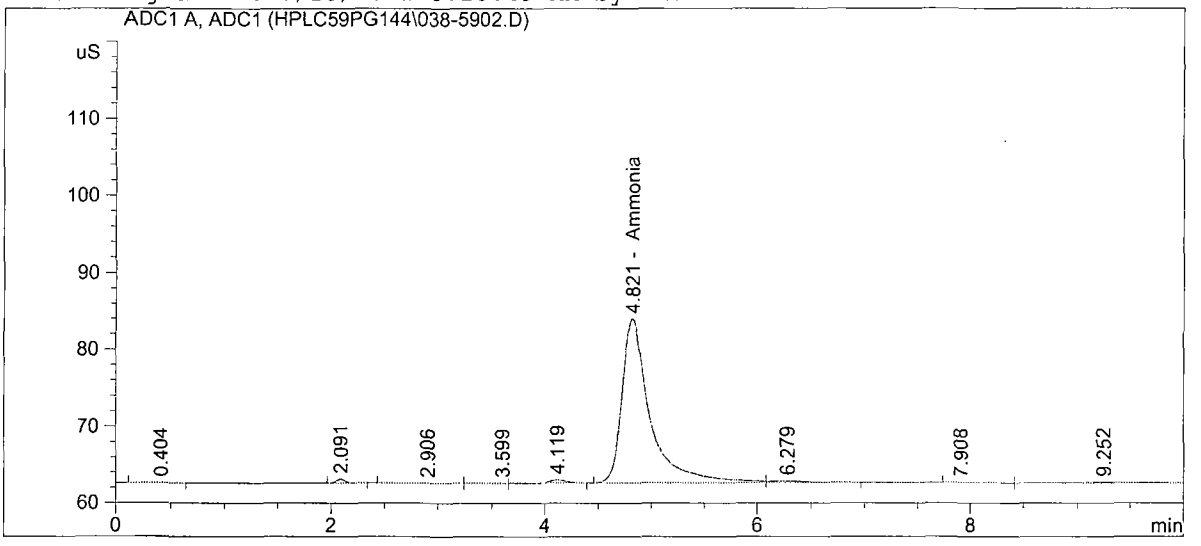



```
==========================================================================
                        External Standard Report
==========================================================================

Sorted By             :      Signal
Calib. Data Modified  :      Thursday, August 25, 2011 8:28:38 AM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1

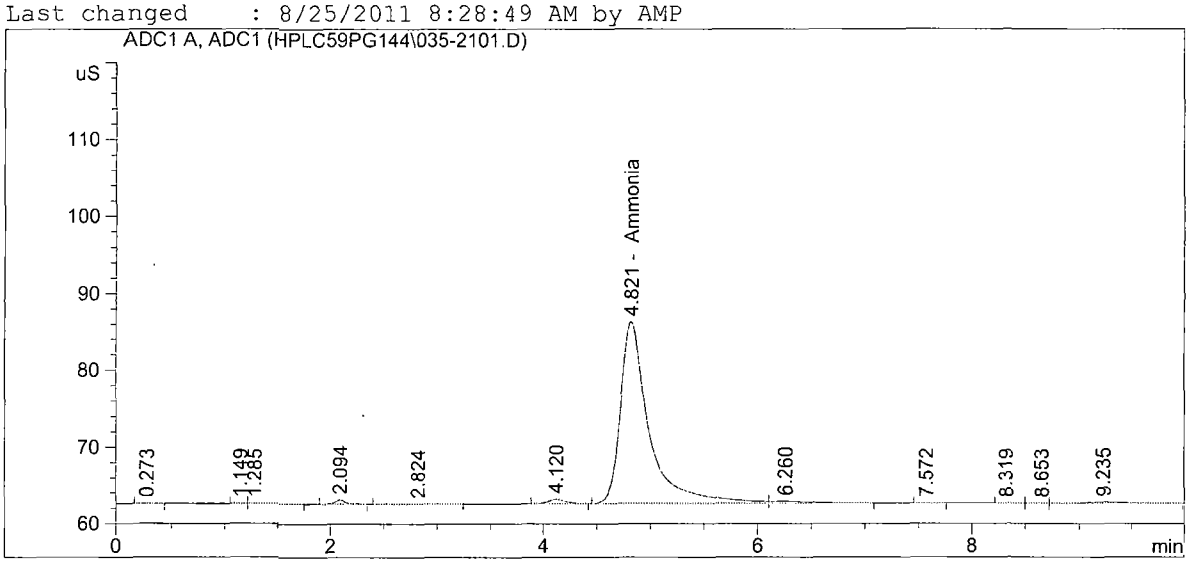
RetTime  Type     Area      Amt/Area     Amount    Grp   Name
 [min]          [uS*s]                 [ug/mL]
-------|------|----------|----------|----------|--|------------------
  4.821 BV      394.38232  1.45096e-2   5.72234     Ammonia

Totals :                                 5.72234


==========================================================================
                          *** End of Report ***
```

ta File I:\HPLC2011Q3\CURLY\DATA\AUG11\HPLC59PG144\035-2101.D
mple Name: HPLC59pg140 #5

```
Acq. Operator   : AMP                                  Seq. Line :  21
Acq. Instrument : Curly                                 Location : Vial 35
Injection Date  : 8/25/2011 3:33:17 AM                      Inj :   1
                                                      Inj Volume : 25.0 µl
Sequence File   : I:\HPLC2011Q3\CURLY\SEQUENCE\HPLC59PG144.S
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG144\HPLC59PG144 2011-08-24 19-37-12\
                  AMMONIA.M
Last changed    : 8/22/2011 5:50:38 PM by KAW/KHB
Analysis Method : I:\HPLC2011Q3\CURLY\METHODS\HPLC59PG144.M
Last changed    : 8/25/2011 8:28:49 AM by AMP
```



External Standard Report

```
Sorted By             :      Signal
Calib. Data Modified  :      Thursday, August 25, 2011 8:28:38 AM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1

RetTime  Type     Area      Amt/Area    Amount    Grp   Name
 [min]          [uS*s]                [ug/mL]
-------|------|----------|----------|----------|--|------------------
  4.821 BV      438.48196  1.48685e-2   6.51958     Ammonia

Totals :                                 6.51958
```

*** End of Report ***

ta File I:\HPLC2011Q3\CURLY\DATA\AUG11\HPLC59PG144\035-2102.D
mple Name: HPLC59pg140 #5

```
==========================================================================
Acq. Operator   : AMP                                Seq. Line :  21
Acq. Instrument : Curly                               Location : Vial 35
Injection Date  : 8/25/2011 3:45:06 AM                    Inj :   2
                                                    Inj Volume : 25.0 µl
Sequence File   : I:\HPLC2011Q3\CURLY\SEQUENCE\HPLC59PG144.S
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG144\HPLC59PG144 2011-08-24 19-37-12\
                  AMMONIA.M
Last changed    : 8/22/2011 5:50:38 PM by KAW/KHB
Analysis Method : I:\HPLC2011Q3\CURLY\METHODS\HPLC59PG144.M
Last changed    : 8/25/2011 8:28:49 AM by AMP
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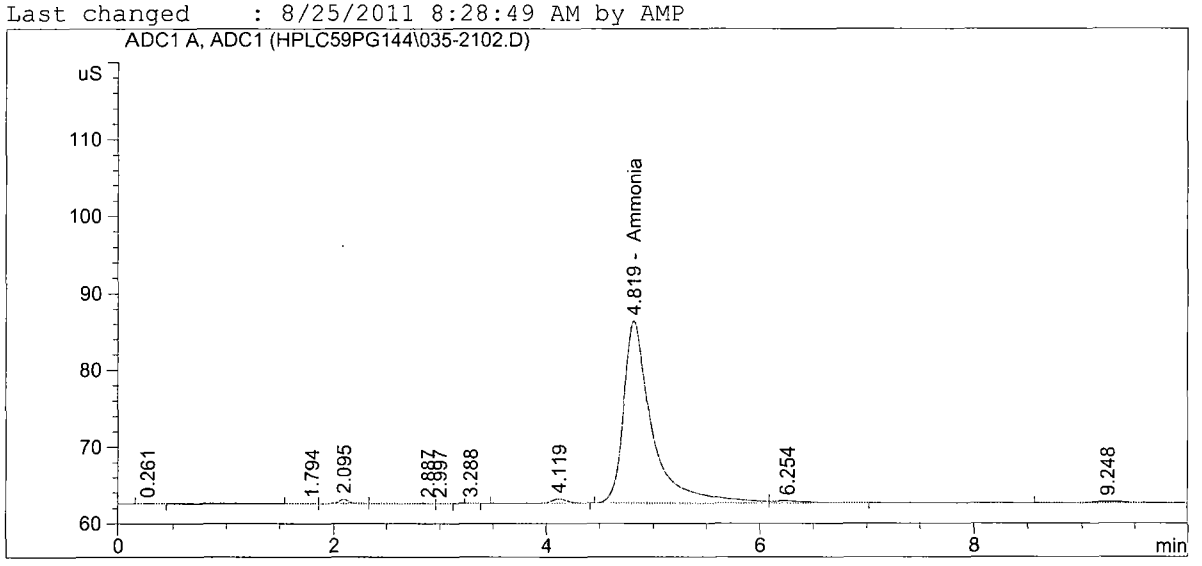



```
==========================================================================
                        External Standard Report
==========================================================================

Sorted By             :      Signal
Calib. Data Modified  :      Thursday, August 25, 2011 8:28:38 AM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1

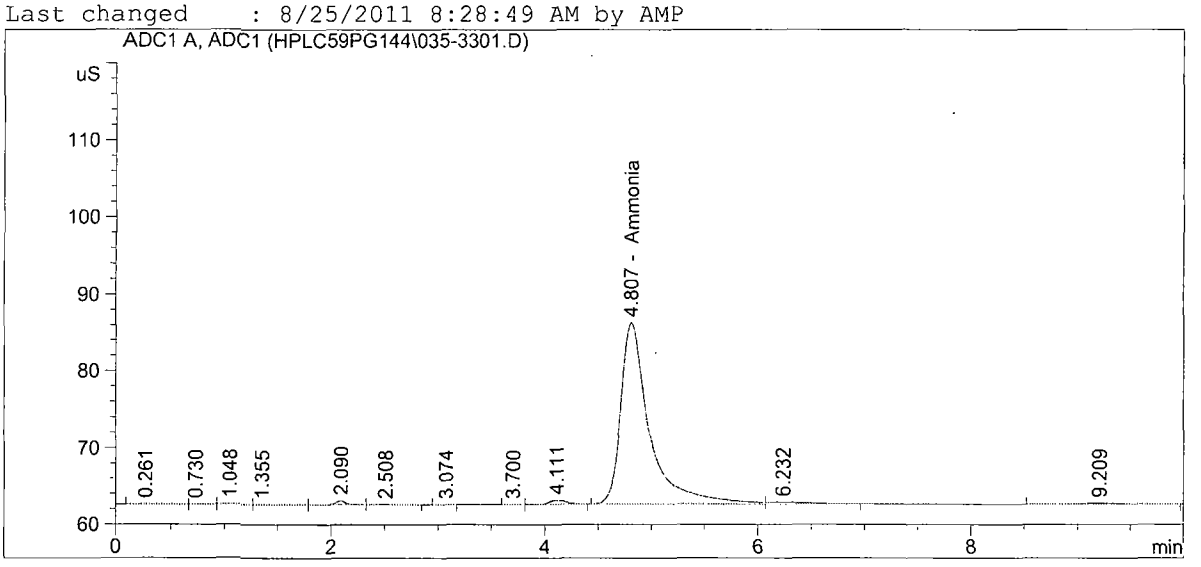
RetTime  Type     Area      Amt/Area    Amount   Grp   Name
 [min]          [uS*s]                [ug/mL]
-------|------|----------|----------|----------|--|------------------
  4.819 BV      438.13654  1.48657e-2   6.51319    Ammonia

Totals :                                 6.51319


==========================================================================
                          *** End of Report ***
```

ta File I:\HPLC2011Q3\CURLY\DATA\AUG11\HPLC59PG144\035-3301.D
mple Name: HPLC59pg140 #5

Acq. Operator : AMP Seq. Line : 33
Acq. Instrument : Curly Location : Vial 35
Injection Date : 8/25/2011 2:15:51 PM Inj : 1
Inj Volume : 25.0 µl
Sequence File : I:\HPLC2011Q3\CURLY\SEQUENCE\HPLC59PG144.S
Acq. Method : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG144\HPLC59PG144 2011-08-24 19-37-12\AMMONIA.M
Last changed : 8/22/2011 5:50:38 PM by KAW/KHB
Analysis Method : I:\HPLC2011Q3\CURLY\METHODS\HPLC59PG144.M
Last changed : 8/25/2011 8:28:49 AM by AMP



External Standard Report

Sorted By : Signal
Calib. Data Modified : Thursday, August 25, 2011 8:28:38 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1

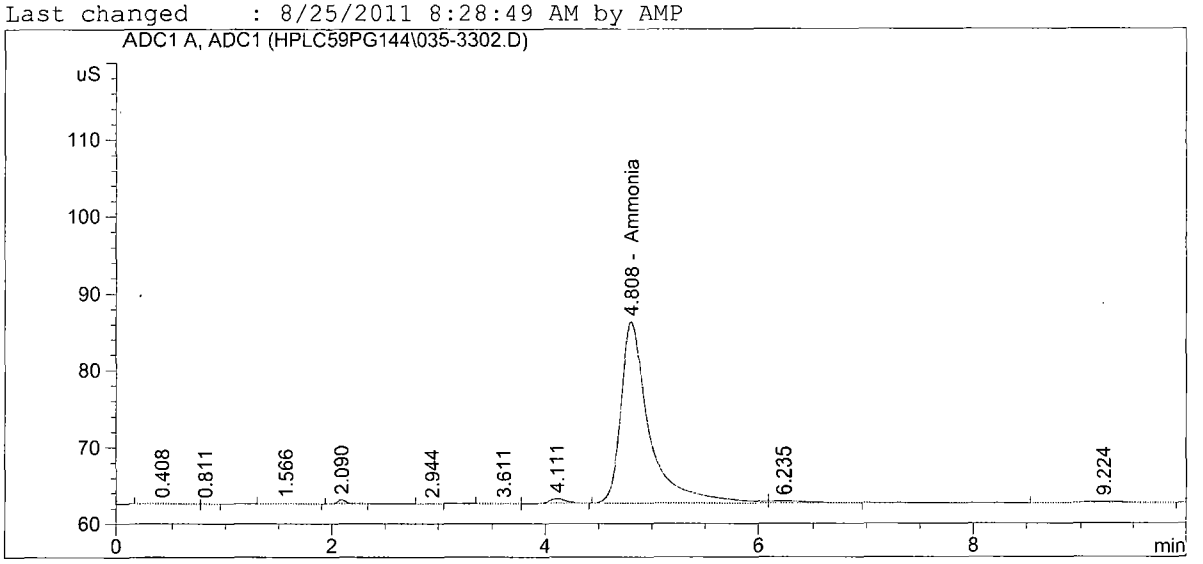
RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.807	BV	442.16776	1.48992e-2	6.58796		Ammonia

Totals : 6.58796

*** End of Report ***

Data File I:\HPLC2011Q3\CURLY\DATA\AUG11\HPLC59PG144\035-3302.D
Sample Name: HPLC59pg140 #5

```
==========================================================================
Acq. Operator   : AMP                              Seq. Line :  33
Acq. Instrument : Curly                             Location : Vial 35
Injection Date  : 8/25/2011 2:27:40 PM                   Inj :   2
                                                  Inj Volume : 25.0 µl
Sequence File   : I:\HPLC2011Q3\CURLY\SEQUENCE\HPLC59PG144.S
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG144\HPLC59PG144 2011-08-24 19-37-12\
                  AMMONIA.M
Last changed    : 8/22/2011 5:50:38 PM by KAW/KHB
Analysis Method : I:\HPLC2011Q3\CURLY\METHODS\HPLC59PG144.M
Last changed    : 8/25/2011 8:28:49 AM by AMP
```




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

Sorted By             :      Signal
Calib. Data Modified  :      Thursday, August 25, 2011 8:28:38 AM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1

RetTime  Type     Area      Amt/Area    Amount   Grp   Name
 [min]          [uS*s]                [ug/mL]
-------|------|----------|----------|----------|--|------------------
  4.808 BV      439.71555  1.48788e-2   6.54244     Ammonia

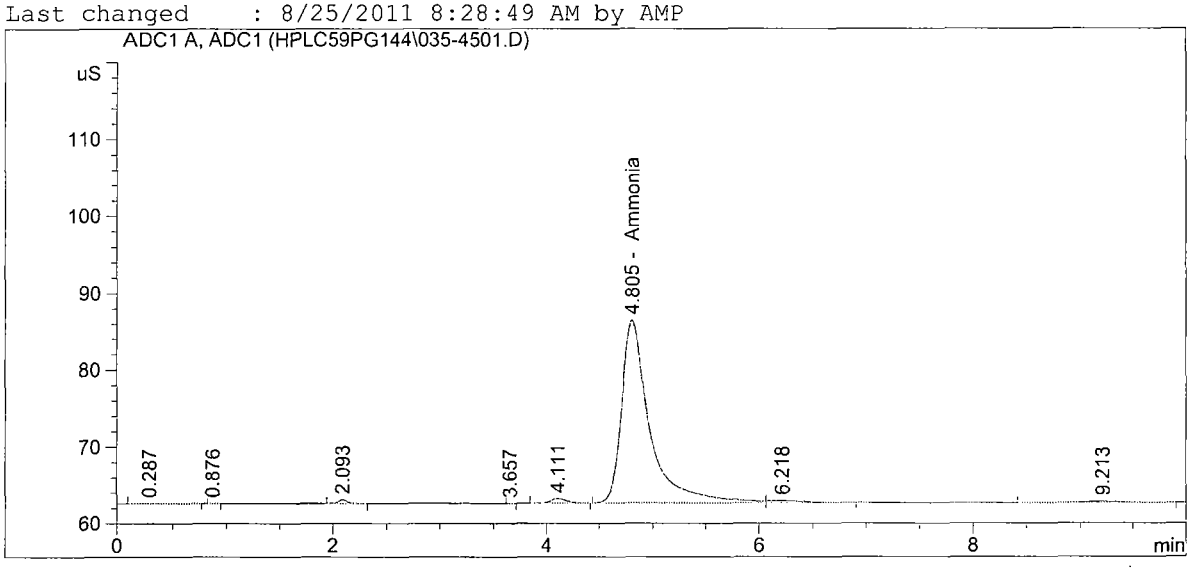
Totals :                                 6.54244

==========================================================================
                          *** End of Report ***
```

Data File I:\HPLC2011Q3\CURLY\DATA\AUG11\HPLC59PG144\035-4501.D
Sample Name: HPLC59pg140 #5

Acq. Operator	: AMP	Seq. Line	: 45
Acq. Instrument	: Curly	Location	: Vial 35
Injection Date	: 8/25/2011 6:59:41 PM	Inj	: 1
		Inj Volume	: 25.0 µl

Sequence File : I:\HPLC2011Q3\CURLY\SEQUENCE\HPLC59PG144.S
Acq. Method : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG144\HPLC59PG144 2011-08-24 19-37-12\AMMONIA.M
Last changed : 8/22/2011 5:50:38 PM by KAW/KHB
Analysis Method : I:\HPLC2011Q3\CURLY\METHODS\HPLC59PG144.M
Last changed : 8/25/2011 8:28:49 AM by AMP



External Standard Report

Sorted By : Signal
Calib. Data Modified : Thursday, August 25, 2011 8:28:38 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1

RetTime [min]	Type	Area [uS*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.805	BV	438.57181	1.48693e-2	6.52125		Ammonia

Totals : 6.52125

*** End of Report ***

Data File I:\HPLC2011Q3\CURLY\DATA\AUG11\HPLC59PG144\035-4502.D
Sample Name: HPLC59pg140 #5

```
==========================================================================
Acq. Operator   : AMP                              Seq. Line :  45
Acq. Instrument : Curly                            Location : Vial 35
Injection Date  : 8/25/2011 7:11:29 PM                 Inj :   2
                                                   Inj Volume : 25.0 µl
Sequence File   : I:\HPLC2011Q3\CURLY\SEQUENCE\HPLC59PG144.S
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG144\HPLC59PG144 2011-08-24 19-37-12\
                  AMMONIA.M
Last changed    : 8/22/2011 5:50:38 PM by KAW/KHB
Analysis Method : I:\HPLC2011Q3\CURLY\METHODS\HPLC59PG144.M
Last changed    : 8/25/2011 8:28:49 AM by AMP
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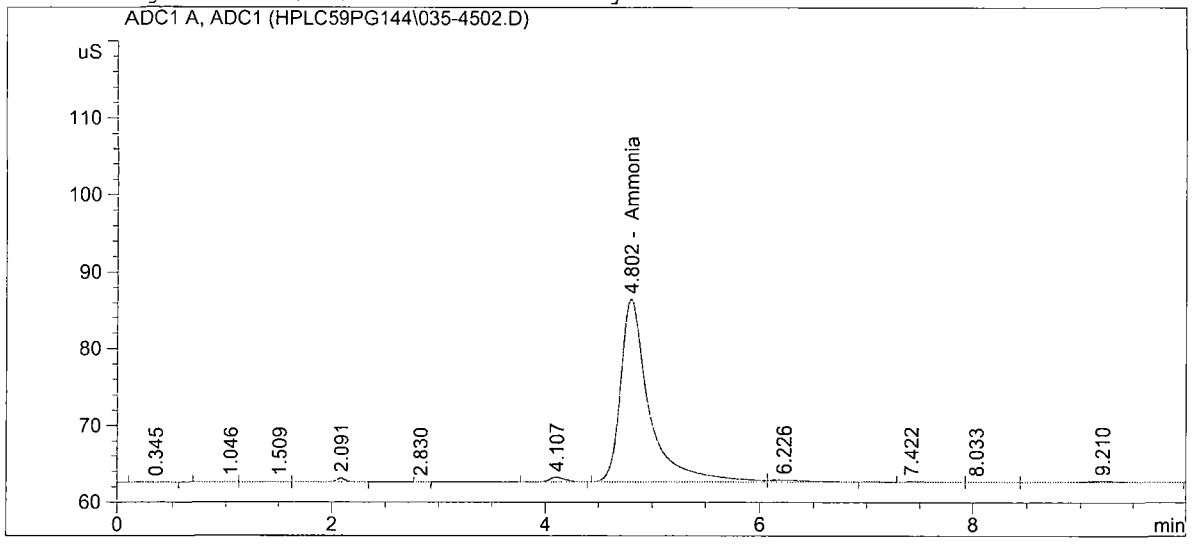


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==========================================================================
                        External Standard Report
==========================================================================

Sorted By             :      Signal
Calib. Data Modified  :      Thursday, August 25, 2011 8:28:38 AM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1

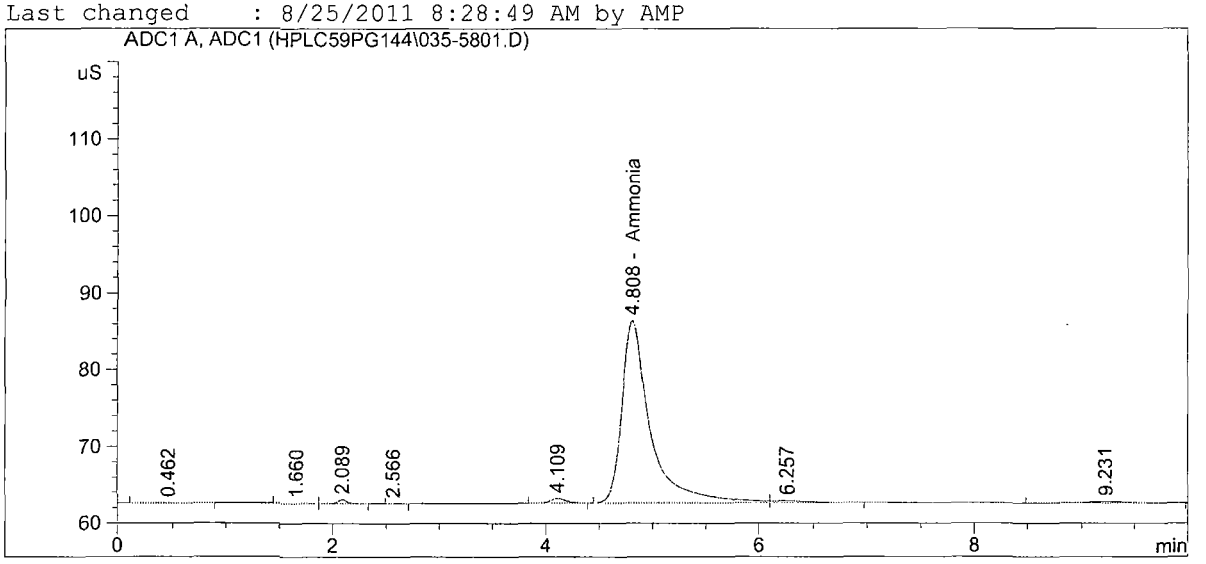
RetTime  Type     Area      Amt/Area    Amount    Grp   Name
 [min]          [uS*s]                [ug/mL]
-------|------|----------|----------|----------|--|------------------
  4.802 BV      438.34409  1.48674e-2   6.51703     Ammonia

Totals :                                 6.51703


==========================================================================
                          *** End of Report ***
```

Data File I:\HPLC2011Q3\CURLY\DATA\AUG11\HPLC59PG144\035-5801.D
Sample Name: HPLC59pg140 #5

```
==============================================================================
Acq. Operator   : AMP                                 Seq. Line :  58
Acq. Instrument : Curly                               Location : Vial 35
Injection Date  : 8/26/2011 12:08:12 AM                    Inj :   1
                                                    Inj Volume : 25.0 µl
Sequence File   : I:\HPLC2011Q3\CURLY\SEQUENCE\HPLC59PG144.S
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG144\HPLC59PG144 2011-08-24 19-37-12\
                  AMMONIA.M
Last changed    : 8/22/2011 5:50:38 PM by KAW/KHB
Analysis Method : I:\HPLC2011Q3\CURLY\METHODS\HPLC59PG144.M
Last changed    : 8/25/2011 8:28:49 AM by AMP
```

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

Sorted By             :      Signal
Calib. Data Modified  :      Thursday, August 25, 2011 8:28:38 AM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1

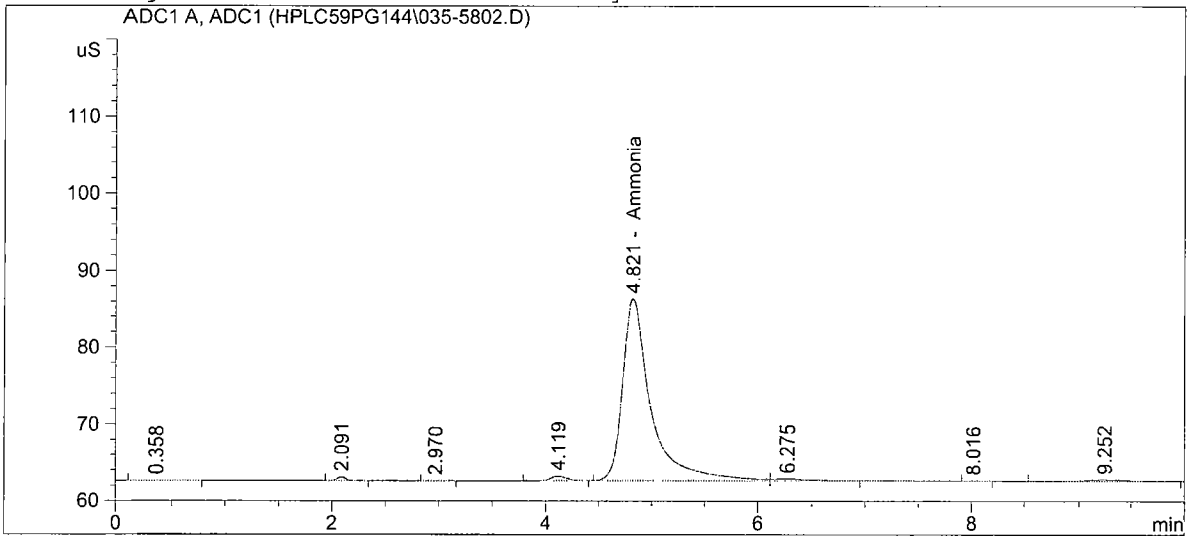
RetTime  Type     Area      Amt/Area    Amount    Grp   Name
 [min]          [uS*s]                [ug/mL]
-------|------|----------|----------|----------|--|------------------
  4.808 BV      441.37265  1.48926e-2   6.57318    Ammonia

Totals :                                 6.57318


==============================================================================
                           *** End of Report ***
```

Data File I:\HPLC2011Q3\CURLY\DATA\AUG11\HPLC59PG144\035-5802.D
Sample Name: HPLC59pg140 #5

```
==========================================================================
Acq. Operator   : AMP                                  Seq. Line :  58
Acq. Instrument : Curly                                 Location : Vial 35
Injection Date  : 8/26/2011 12:20:00 AM                      Inj :   2
                                                      Inj Volume : 25.0 µl
Sequence File   : I:\HPLC2011Q3\CURLY\SEQUENCE\HPLC59PG144.S
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG144\HPLC59PG144 2011-08-24 19-37-12\
                  AMMONIA.M
Last changed    : 8/22/2011 5:50:38 PM by KAW/KHB
Analysis Method : I:\HPLC2011Q3\CURLY\METHODS\HPLC59PG144.M
Last changed    : 8/25/2011 8:28:49 AM by AMP
```

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

Sorted By             :      Signal
Calib. Data Modified  :      Thursday, August 25, 2011 8:28:38 AM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1

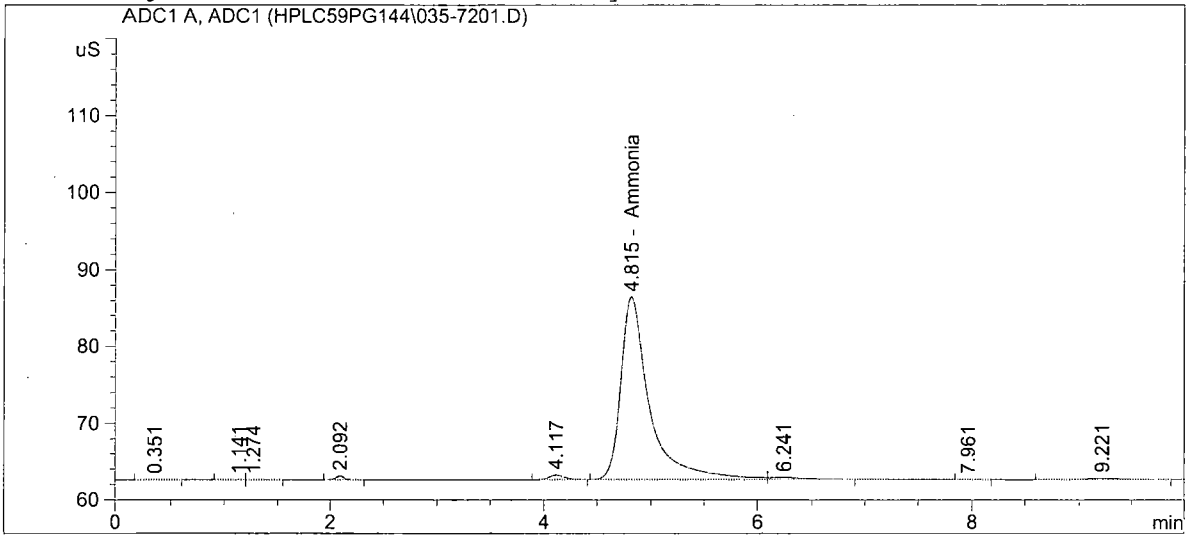
RetTime  Type     Area      Amt/Area    Amount    Grp   Name
 [min]          [uS*s]                [ug/mL]
-------|------|----------|----------|----------|--|------------------
  4.821 BV      441.74380  1.48957e-2   6.58008     Ammonia

Totals :                                 6.58008


==========================================================================
                          *** End of Report ***
```

Data File I:\HPLC2011Q3\CURLY\DATA\AUG11\HPLC59PG144\035-7201.D
Sample Name: HPLC59pg140 #5

```
==========================================================================
Acq. Operator   : AMP                              Seq. Line :  72
Acq. Instrument : Curly                             Location : Vial 35
Injection Date  : 8/26/2011 5:39:55 AM                   Inj :   1
                                                  Inj Volume : 25.0 µl
Sequence File   : I:\HPLC2011Q3\CURLY\SEQUENCE\HPLC59PG144.S
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG144\HPLC59PG144 2011-08-24 19-37-12\
                  AMMONIA.M
Last changed    : 8/22/2011 5:50:38 PM by KAW/KHB
Analysis Method : I:\HPLC2011Q3\CURLY\METHODS\HPLC59PG144.M
Last changed    : 8/25/2011 8:28:49 AM by AMP
```




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

Sorted By             :      Signal
Calib. Data Modified  :      Thursday, August 25, 2011 8:28:38 AM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1

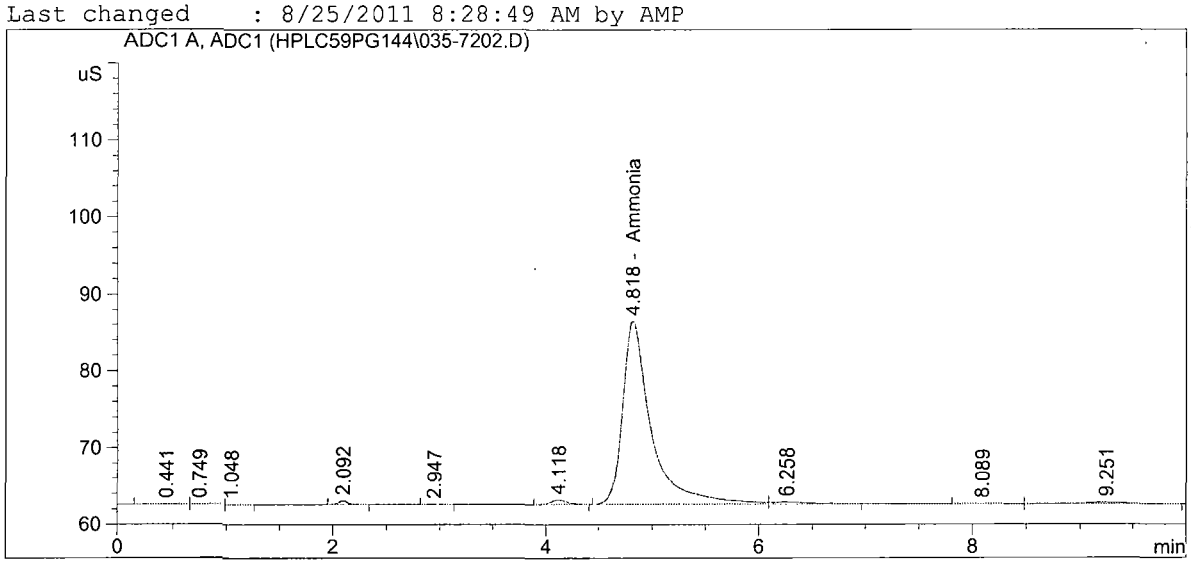
RetTime  Type     Area      Amt/Area    Amount   Grp   Name
 [min]          [uS*s]                [ug/mL]
-------|------|----------|----------|----------|--|------------------
  4.815 BV      442.64642  1.49032e-2   6.59686    Ammonia

Totals :                                 6.59686


==========================================================================
                          *** End of Report ***
```

Data File I:\HPLC2011Q3\CURLY\DATA\AUG11\HPLC59PG144\035-7202.D
Sample Name: HPLC59pg140 #5

```
==========================================================================
Acq. Operator   : AMP                              Seq. Line :  72
Acq. Instrument : Curly                             Location : Vial 35
Injection Date  : 8/26/2011 5:51:44 AM                   Inj :   2
                                                  Inj Volume : 25.0 µl
Sequence File   : I:\HPLC2011Q3\CURLY\SEQUENCE\HPLC59PG144.S
Acq. Method     : C:\HPLC2011Q3\CURLY\DATA\JUL11\HPLC59PG144\HPLC59PG144 2011-08-24 19-37-12\
                  AMMONIA.M
Last changed    : 8/22/2011 5:50:38 PM by KAW/KHB
Analysis Method : I:\HPLC2011Q3\CURLY\METHODS\HPLC59PG144.M
Last changed    : 8/25/2011 8:28:49 AM by AMP
```

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

Sorted By             :      Signal
Calib. Data Modified  :      Thursday, August 25, 2011 8:28:38 AM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1

RetTime  Type     Area      Amt/Area    Amount   Grp   Name
 [min]          [uS*s]                [ug/mL]
-------|------|----------|----------|----------|--|------------------
  4.818 BV      442.48944  1.49019e-2   6.59394    Ammonia

Totals :                                 6.59394


==========================================================================
                          *** End of Report ***
```

Method Information

Method: U:\HPLC2010Q1\CURLY\METHODS\AMMONIA.M
Modified: 2/11/2010 at 3:52:34 PM

Column: Dionex IonPac CS12 (250 mm x 4 mm)
Mobile Phase: 0.02 N MethaneSulfonic Acid
Detection: Suppressed Conductivity
Flow Rate: 1.0 mL/min
Temp: 30C

ANALOG DIGITAL CONVERTER

	Signal 1
Description:	Dionex ED40
Source:	Signal
Unit:	uS
Units/Volt:	1000.000
Peakwidth (Data Rate):	0.053 Min (5.00 Hz)
Stop Time:	No Limit
Data Storage:	All

Start Signal Source: External Device Will Start 35900

Timed Event Table:
<no events>

Agilent 1100/1200 Quaternary Pump 1

Control
- Column Flow : 1.000 ml/min
- Stoptime : 10.00 min
- Posttime : Off

Solvents
- Solvent A : 0.0 % ( )
- Solvent B : 0.0 % ( )
- Solvent C : 100.0 % (0.02 N MethaneSulfonic Acid)
- Solvent D : 0.0 % (12mM Na2CO3/1.5mM NaHCO3)

PressureLimits
- Minimum Pressure : 0 bar
- Maximum Pressure : 400 bar

Auxiliary
- Maximal Flow Ramp : 100.00 ml/min^2
- Primary Channel : Auto
- Compressibility : 83*10^-6/bar
- Minimal Stroke : Auto

Store Parameters
- Store Ratio A : Yes

Store Ratio B	:	Yes
Store Ratio C	:	Yes
Store Ratio D	:	Yes
Store Flow	:	Yes
Store Pressure	:	Yes

Agilent 1100 Autosampler 1

Injection

Injection Mode	:	Needle Wash
Injector volume	:	25.00 µl
Wash Vial	:	100
Optimization	:	none

Auxiliary

Drawspeed	:	100 µl/min
Ejectspeed	:	1000 µl/min
Draw position	:	2.0 mm

Time

Stoptime	:	As Pump
Posttime	:	Off

Agilent 1100/1200 Column Thermostat 1

Temperature settings

Left temperature	:	30.0°C
Right temperature	:	Same as left
Enable analysis	:	When Temp. is within setpoint +/- 0.8°C
Store left temperature	:	No
Store right temperature	:	No

Time

Stoptime	:	As pump
Posttime	:	Off

Column Switching Valve : Column 1

Sequence: C:\HPCHEM\2\SEQUENCE\HPLC59PG144.TXT

Line	Vial	Sample Name	Method	Inj
1	Vial 31	HPLC59pg140 #1	AMMONIA	2
2	Vial 32	HPLC59pg140 #2	AMMONIA	2
3	Vial 33	HPLC59pg140 #3	AMMONIA	2
4	Vial 34	HPLC59pg140 #4	AMMONIA	2
5	Vial 35	HPLC59pg140 #5	AMMONIA	2
6	Vial 36	HPLC59pg140 #6	AMMONIA	2
7	Vial 37	HPLC59pg140 #7	AMMONIA	2
8	Vial 38	HPLC59pg140 #SS	AMMONIA	2
9	Vial 39	0.04N H2SO4 RB	AMMONIA	2
10	Vial 41	38 Heater-R1-Imp1,2 0811-94	AMMONIA	2
11	Vial 42	38 Heater-R1-Imp3 0811-94	AMMONIA	2
12	Vial 43	38 Heater-R2-Imp1,2 0811-94	AMMONIA	2
13	Vial 44	38 Heater-R2-Imp3 0811-94	AMMONIA	2
14	Vial 45	38 Heater-R3-Imp1,2 0811-94	AMMONIA	2
15	Vial 46	38 Heater-R3-Imp3 0811-94	AMMONIA	2
16	Vial 47	Blank-0.1N H2SO4 0811-94	AMMONIA	2
17	Vial 48	Blank-DI H2O 0811-94	AMMONIA	2
18	Vial 49	MS/38 Heater-R1-Imp1,2 0811-94	AMMONIA	2
19	Vial 50	MSD/38 Heater-R1-Imp1,2 0811-94	AMMONIA	2
20	Vial 33	HPLC59pg140 #3	AMMONIA	2
21	Vial 35	HPLC59pg140 #5	AMMONIA	2
22	Vial 51	NH3-11-1*4 0811-61	AMMONIA	2
23	Vial 52	MS/NH3-11-1 0811-61	AMMONIA	2
24	Vial 53	MSD/NH3-11-1 0811-61	AMMONIA	2
25	Vial 54	NH3-11-2*4 0811-61	AMMONIA	2
26	Vial 55	NH3-11-3*4 0811-61	AMMONIA	2
27	Vial 56	NH3-11-4*4 0811-61	AMMONIA	2
28	Vial 57	NH3-11-5*4 0811-61	AMMONIA	2
29	Vial 58	NH3-11-6*4 0811-61	AMMONIA	2
30	Vial 59	NH3-11-7*4 0811-61	AMMONIA	2
31	Vial 60	NH3-11-8*4 0811-61	AMMONIA	2
32	Vial 33	HPLC59pg140 #3	AMMONIA	2
33	Vial 35	HPLC59pg140 #5	AMMONIA	2
34	Vial 41	38 Heater-R1-Imp1,2 *4 0811-94	AMMONIA	2
35	Vial 43	38 Heater-R2-Imp1,2*4 0811-94	AMMONIA	2
36	Vial 45	38 Heater-R3-Imp1,2*4 0811-94	AMMONIA	2
37	Vial 49	MS/38 Heater-R3-Imp1,2 0811-94	AMMONIA	2
38	Vial 50	MSD/38 Heater-R3-Imp1,2 0811-94	AMMONIA	2
39	Vial 61	NH3-11-9*4 0811-61	AMMONIA	2
40	Vial 62	NH3-11-10*4 0811-61	AMMONIA	2
41	Vial 63	NH3-12-1*4 0811-61	AMMONIA	2
42	Vial 64	MS/NH3-12-1 0811-61	AMMONIA	2
43	Vial 65	MSD/NH3-12-1 0811-61	AMMONIA	2
44	Vial 33	HPLC59pg140 #3	AMMONIA	2
45	Vial 35	HPLC59pg140 #5	AMMONIA	2
46	Vial 66	NH3-12-2*4 0811-61	AMMONIA	2
47	Vial 67	NH3-12-3*4 0811-61	AMMONIA	2
48	Vial 68	NH3-12-4*4 0811-61	AMMONIA	2
49	Vial 69	NH3-12-5*4 0811-61	AMMONIA	2
50	Vial 70	NH3-12-6*4 0811-61	AMMONIA	2
51	Vial 71	NH3-12-7*4 0811-61	AMMONIA	2
52	Vial 72	NH3-12-8*4 0811-61	AMMONIA	2
53	Vial 73	NH3-12-9*4 0811-61	AMMONIA	2
54	Vial 74	NH3-12-10*4 0811-61	AMMONIA	2
55	Vial 75	NH3-Blank 0811-61	AMMONIA	2
56	Vial 81	R1-FH-I1-I2 0811-59	AMMONIA	2
57	Vial 33	HPLC59pg140 #3	AMMONIA	2
58	Vial 35	HPLC59pg140 #5	AMMONIA	2
59	Vial 38	HPLC59pg140 #SS	AMMONIA	2
60	Vial 39	0.04N H2SO4 RB	AMMONIA	2
61	Vial 82	MS R1-FH-I1-I2 0811-59	AMMONIA	2
62	Vial 83	MSD R1-FH-I1-I2 0811-59	AMMONIA	2
63	Vial 84	R1-I3 0811-59	AMMONIA	2
64	Vial 85	R2-FH 0811-59	AMMONIA	2
65	Vial 86	R2-I1 0811-59	AMMONIA	2
66	Vial 87	R2-I3 0811-59	AMMONIA	2
67	Vial 88	R2-I3z 0811-59	AMMONIA	2
68	Vial 89	R3-FH-I1-I2 0811-59	AMMONIA	2
69	Vial 90	R3-I3 0811-59	AMMONIA	2
70	Vial 91	H2SO4 RB 0811-59	AMMONIA	2
71	Vial 33	HPLC59pg140 #3	AMMONIA	2
72	Vial 35	HPLC59pg140 #5	AMMONIA	2

Subject: RE: MIT-2A-OIL - Mitsubishi/Black & Veatch - CT-2A, Florida Power & Light: Loxahatchee, FL - 0811-59 addenda
From: Jordan Laster <Jordan.Laster@enthalpy.com>
Date: 9/7/2011 10:03 AM
To: Kevin Liang <liangt87@gmail.com>

Kevin -

The samples were analyzed as usual. Upon review, it was discovered that the continuing calibrations were all failing high, indicating that the values were overreported. Unfortunately, when this was discovered, the samples were past the method indicated holding time, so the re-analysis was performed on the "expired" samples. We know that ammonia is stable in solution for much longer than a month, but since that's what the method calls for, we had to address the fact that the analysis was done on expired samples.

The original analysis fails to meet QC criteria, and are therefore less representative results. It indicates that there was an instrumental issue causing a bias in the analysis. We provided the re-analysis (out of hold time) in the formal report, and provided the original (failing QC criteria) results in the addendum.

Jordan Laster
919-850-4392 x 300

-----Original Message-----
From: Kevin Liang [mailto:liangt87@gmail.com]
Sent: Tuesday, September 06, 2011 3:12 PM
To: Jordan Laster
Subject: RE: MIT-2A-OIL - Mitsubishi/Black & Veatch - CT-2A, Florida Power & Light: Loxahatchee, FL - 0811-59 addenda

Hey Jordan,

I left a message on your voicemail in regards to the 0811-59 ammonia testing. Bill and I were hoping you could explain the significance of the re-testing and offer some insight into the different results, as well as general thoughts about the situation (i.e. which results would be more appropriate to report etc).

Thanks,

--
Kevin Liang, EIT
Associate Chemical Engineer
Source Testing and Consulting Services
Phone: (919) 744-6715

Company	STACS, Inc.
Analyst	AMP
Parameters	EPA CTM-027

Client #	MIT-2A-OIL
Job #	0811-59
# Samples	3 runs & 1 blank

Compound	Sample ID / Catch Weight (ug)		
	U2-Oil-Base-R1	***U2-Oil-Base-R2***	***U2-Oil-Base-R3***
Ammonia	1,183	483	588
	H2SO4 RB		
Ammonia	3.88 ND		

Company	STACS, Inc.
Analyst	AMP
Parameters	EPA CTM-027

Client #	MIT-2A-OIL
Job #	0811-59
# Samples	3 runs & 1 blank

MDL 0.0366 (ug/mL)
LOQ 0.470 (ug/mL)
Compound Ammonia

Lower Curve Limit 0.470 (ug/mL)
Upper Curve Limit 11.1 (ug/mL)

Sample ID	Lab ID # 1	Lab ID # 2	Analysis Method	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ug/mL)	Conc # 2 (ug/mL)	% Diff Conc	Avg Conc (ug/mL)	DF	Vol (mL)	Catch Weight (ug)	Qual
U2-Oil-Base-R1 FH-I1-I2	065-4101.D	065-4102.D	HPLC59PG140.M	4.73	4.74	0.1	2.53	2.48	1.0	2.50	1	460	1,152	
U2-Oil-Base-R1 I3	068-8001.D	068-8002.D	HPLC59PG140.M	4.71	4.69	0.4	0.305	0.448	19.0	0.377	1	81.0	30.5	J
													1,183	
U2-Oil-Base-R2 FH	069-8101.D	069-8102.D	HPLC59PG140.M	4.66	4.66	0.0	3.98	3.99	0.0	3.99	1	102	406	
U2-Oil-Base-R2 I1	070-8201.D	070-8202.D	HPLC59PG140.M	4.68	4.68	0.0	0.193	0.275	17.5	0.234	1	202	47.2	J
U2-Oil-Base-R2 I3	071-8301.D	071-8302.D	HPLC59PG140.M	4.68	4.70	0.4	0.157	0.158	0.3	0.158	1	130	20.5	J
U2-Oil-Base-R2 I3z	072-8401.D	072-8402.D	HPLC59PG140.M	4.76	4.77	0.1	0.153	0.0872	27.5	0.120	1	71.0	8.54	J
													483	
U2-Oil-Base-R3 FH-I1-I2	073-8501.D	073-8502.D	HPLC59PG140.M	4.72	4.73	0.1	1.48	1.49	0.2	1.48	1	395	586	
U2-Oil-Base-R3 I3	074-8601.D	074-8602.D	HPLC59PG140.M	4.75	NA	NA	0.0378	0.0366	1.7	0.0372	1	63.0	2.35	J
													588	
H2SO4 RB	075-8701.D	075-8702.D	HPLC59PG140.M	NA	NA	NA	0.0366	0.0366	0.0	0.0366	1	106	3.88	ND
0.04N H2SO4 RB	039-0901.D	039-0902.D	HPLC59PG140.M	NA	NA	NA	0.0366	0.0366	0.0	0.0366	1	1.00	0.0366	ND
0.04N H2SO4 RB	039-3301.D	039-3302.D	HPLC59PG140.M	NA	NA	NA	0.0366	0.0366	0.0	0.0366	1	1.00	0.0366	ND
0.04N H2SO4 RB	039-4501.D	039-4502.D	HPLC59PG140.M	4.72	4.71	0.1	0.0555	0.0582	2.4	0.0568	1	1.00	0.0568	J
0.04N H2SO4 RB	039-6901.D	039-6902.D	HPLC59PG140.M	4.66	4.67	0.2	0.150	0.199	13.9	0.175	1	1.00	0.175	J

Company	STACS, Inc.
Analyst	AMP
Parameters	EPA CTM-027

Client #	MIT-2A-OIL
Job #	0811-59
# Samples	3 runs & 1 blank

MDL 0.0366 (ug/mL)
LOQ 0.470 (ug/mL)
Compound Ammonia

Lower Curve Limit 0.470 (ug/mL)
Upper Curve Limit 11.1 (ug/mL)

Sample ID	Lab ID # 1	Lab ID # 2	Analysis Method	Ret Time (min)	Ret Time (min)	% Diff Ret	Conc # 1 (ug/mL)	Conc # 2 (ug/mL)	% Diff Conc	Avg Conc (ug/mL)	DF	Vol (mL)	Catch Weight (ug)	Qual
MS / R1-FH-I1-I2	066-7601.D	066-7602.D	HPLC59PG140.M	4.73	4.73	0.0	6.42	6.45	0.2	6.43	1	0.800	5.15	
												Spike Amount (ug)	2.83	
												Native Amount (ug)	1.93	
												Spike Recovery (%)	114%	
MSD / R1-FH-I1-I2	067-7701.D	067-7702.D	HPLC59PG140.M	4.72	4.74	0.3	6.43	6.47	0.3	6.45	1	0.800	5.16	
												Spike Amount (ug)	2.83	
												Native Amount (ug)	1.93	
												Spike Recovery (%)	114%	
HPLC59pg140 #SS	038-0801.D	038-0802.D	HPLC59PG140.M	4.73	4.72	0.1	5.78	5.78	0.0	5.78	1	1.00	5.78	
												Tag Amount (ug)	5.55	
												Recovery (%)	104%	
HPLC59pg140 #SS	038-3201.D	038-3202.D	HPLC59PG140.M	4.70	4.70	0.0	6.38	6.37	0.0	6.37	1	1.00	6.37	
												Tag Amount (ug)	5.55	
												Recovery (%)	115%	
HPLC59pg140 #SS	038-4401.D	038-4402.D	HPLC59PG140.M	4.74	4.73	0.2	6.55	6.62	0.6	6.58	1	1.00	6.58	
												Tag Amount (ug)	5.55	
												Recovery (%)	119%	
HPLC59pg140 #SS	038-6801.D	038-6802.D	HPLC59PG140.M	4.68	4.68	0.0	6.56	6.55	0.0	6.55	1	1.00	6.55	
												Tag Amount (ug)	5.55	
												Recovery (%)	118%	

Chain of Custody

Source Testing And Consulting Services Inc.
208-114 Technology Pk Ln
Fuqua Varina, NC 27450
Phone: 919-557-7100
Fax: 919-557-9100

Client Name: BLACK AND VEATCH
Job ID:
Location: Loxahatchee FL
CT-2A OIL

Page ___ of ___

Analytical Laboratory:
Contact:
Phone:

Turn Aound Time: Normal ☐ Fast ☐

NH3 COM[PLIANCE

	Sample ID	Date Collected	Contents	Analysis
	CCS & FORMALDHYDE			
1	MIT-2A-OIL-NH3-BASE-F 1/2 R1	8/4/2011	.1 N H2SO4	NH3
2	MIT-2A-OIL-NH3-BASE-IMP-1 R1	8/4/2011	H2O	NH3
3	MIT-2A-OIL-NH3-BASE-IMP-2 R1	8/4/2011	H2O	NH3
4	MIT-2A-OIL-NH3-BASE-IMP-3 R1	8/4/2011	H2O	NH3
5				
6	MIT-2A-OIL-NH3-BASE-F 1/2 R2	8/4/2011	.1 N H2SO4	NH3
7	MIT-2A-OIL-NH3-BASE-IMP-1 R2	8/4/2011	H2O	NH3
8	MIT-2A-OIL-NH3-BASE-IMP-2 R2	8/4/2011	H2O	NH3
9	MIT-2A-OIL-NH3-BASE-IMP-3 R2	8/4/2011	H2O	NH3
10				
11	MIT-2A-OIL-NH3-BASE-F 1/2 R3	8/4/2011	.1 N H2SO4	NH3
12	MIT-2A-OIL-NH3-BASE-IMP-1 R3	8/4/2011	H2O	NH3
13	MIT-2A-OIL-NH3-BASE-IMP-2 R3	8/4/2011	H2O	NH3
14	MIT-2A-OIL-NH3-BASE-IMP-3 R3*	8/4/2011	H2O	NH3 * Received Imp 4 for R3 mc 8/5/11
15	.1 N H_2SO_4 Blank	8/4/2011	.1 N H_2SO_4	Blank
16				

Collected By:
Relinquished: Date: 8/5/11
Received By: Date:
Relinquished:
Received By: Date: 8/5/11 4:00 pm

Temp = 14.9° Raytek Gun #2

8/5/11

APPENDIX F

PROJECT PARTICIPANTS

PROJECT PARTICIPANTS

STACS

Bill Mayhew	Project Manager
Geoff Johnson	CEMS Specialist
Lee Garcia	Scientist/Analysis
Mike Dickerson	Scientist
Justin Watson	Chief Technician
Chuck Sneeringer	Chief Technician
Kevin Liang	Associate Engineer/QA-QC
Aaron Harden	Contract Administrator/ Document Coordinator

Black & Veatch Energy

Bill Stevenson	Test Coordinator

Florida Power & Light

Dave Fawcett	Environmental & Water Management Leader

Mitsubishi Power Systems Americas

Jaimeson Jeffery	Applications & Performance Test Engineer