A3. Daily Analyzer Calibrations and Data Sheets

Method 25A Calibration Data Sheet - Total Hydrocarbons

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	18-Jul-12	End Date:	18-Jul-12
Start Time:	18:15	End Time:	23:59

THC Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/5090512		
Fuel Pressure -	7		
Combustion Air Pressure -	6.0		
Sample Pressure -	2.0		
Range -	0	-	10,000
Calibrant (choose one, x in box)	Propane		x
	Methane		
Cal Gas Molecular Weight:	44.09		g/mol

Initial Calibration Summary	
Operator:	A. Stratton
Date:	18-Jul-12
Time:	17:00

Initial Calibration Data (Hi / Zero)		
Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	108
High Gas	8367.0	8370
Response Line	0.987	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)					
Calibration Gas	**Cylinder Conc.**	**Predicted Response**	**Actual Response**	**Calibration Error**	**Acceptance Criteria**
Low Gas	3140	3101	3150	1.6	< 5% of cylinder concentration
Mid Gas	5052	4989	5040	1.0	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	BAS
Date:	19-Jul-12
Time:	15:15

Post Calibration Drift Data						
Calibration Gas	**Cylinder Conc.**	**Initial Test Response**	**Final Test Response**	**Calibration Drift**	**Acceptance Criteria**	
Post Cal 1 Zero	0	108	170	**0.62**	< 3% of the measurement range	
Post Cal 1 Upscale	3140	3150	3081	**0.69**	< 3% of the measurement range	
					Test Avg. Conc.	**447**

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data						
Calibration Gas	**Required % of Span**	**Cylinder Conc.**	**Cylinder Composition**	**Cylinder Number**	**Expiration Date**	**Actual % of Span**
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	<0.1%	0	UHP Air		N/A	0%
Low Gas	25-35	3,140	Propane/Air	CC300258	6/30/2013	31%
Mid Gas	45-55	5,052	Propane/Air	CC311566	2/22/2015	51%
High Gas	80-90	8,367	Propane/Air	CC111354	3/2/2015	84%

System Response Time = **120 seconds**

Method 25A Calibration Data Sheet - Total Hydrocarbons

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	19-Jul-12	End Date:	19-Jul-12
Start Time:	0:00	End Time:	23:59

THC Analyzer Data		
Manufacturer -	VIG	
Model/Serial Number -	200/5090512	
Fuel Pressure -	7	
Combustion Air Pressure -	6.0	
Sample Pressure -	2.0	
Range -	0 -	10,000
Calibrant (choose one, x in box)	Propane	x
	Methane	
Cal Gas Molecular Weight:	44.09	g/mol

Initial Calibration Summary	
Operator:	A. Stratton
Date:	18-Jul-12
Time:	17:00

Initial Calibration Data (Hi / Zero)		
Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	108
High Gas	8367.0	8370
Response Line	0.987	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)					
Calibration Gas	Cylinder Conc.	Predicted Response	Actual Response	Calibration Error	Acceptance Criteria
Low Gas	3140	3101	3150	1.6	< 5% of cylinder concentration
Mid Gas	5052	4989	5040	1.0	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	BAY
Date:	20-Jul-12
Time:	14:50

Post Calibration Drift Data						
Calibration Gas	Cylinder Conc.	Initial Test Response	Final Test Response	Calibration Drift	Acceptance Criteria	
Post Cal 1 Zero	0	108	215	**1.07**	< 3% of the measurement range	
Post Cal 1 Upscale	3140	3150	3057	**0.93**	< 3% of the measurement range	
					Test Avg. Conc.	**365**

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data						
Calibration Gas	Required % of Span	Cylinder Conc.	Cylinder Composition	Cylinder Number	Expiration Date	Actual % of Span
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	<0.1%	0	UHP Air		N/A	0%
Low Gas	25-35	3,140	Propane/Air	CC300258	6/30/2013	31%
Mid Gas	45-55	5,052	Propane/Air	CC311566	2/22/2015	51%
High Gas	80-90	8,367	Propane/Air	CC111354	3/2/2015	84%

System Response Time = **120 seconds**

Method 25A Calibration Data Sheet - Total Hydrocarbons

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	20-Jul-12	End Date:	20-Jul-12
Start Time:	0:00	End Time:	23:59

Initial Calibration Summary	
Operator:	A. Stratton
Date:	18-Jul-12
Time:	17:00

THC Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/5090512		
Fuel Pressure -	7		
Combustion Air Pressure -	6.0		
Sample Pressure -	2.0		
Range -	0	-	10,000
Calibrant (choose one, x in box)	Propane		x
	Methane		
Cal Gas Molecular Weight:	44.09		g/mol

Initial Calibration Data (Hi / Zero)		
Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	108
High Gas	8367.0	8370
Response Line	0.987	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)					
Calibration Gas	Cylinder Conc.	Predicted Response	Actual Response	Calibration Error	Acceptance Criteria
Low Gas	3140	3101	3150	1.6	< 5% of cylinder concentration
Mid Gas	5052	4989	5040	1.0	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	JP
Date:	21-Jul-12
Time:	8:45

Post Calibration Drift Data					
Calibration Gas	Cylinder Conc.	Initial Test Response	Final Test Response	Calibration Drift	Acceptance Criteria
Post Cal 1 Zero	0	108	225	**1.17**	< 3% of the measurement range
Post Cal 1 Upscale	3140	3150	3062	**0.88**	< 3% of the measurement range
				Test Avg. Conc.	**423**

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data						
Calibration Gas	Required % of Span	Cylinder Conc.	Cylinder Composition	Cylinder Number	Expiration Date	Actual % of Span
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	<0.1%	0	UHP Air		N/A	0%
Low Gas	25-35	3,140	Propane/Air	CC300258	6/30/2013	31%
Mid Gas	45-55	5,052	Propane/Air	CC311566	2/22/2015	51%
High Gas	80-90	8,367	Propane/Air	CC111354	3/2/2015	84%

System Response Time = 120 seconds

Method 25A Calibration Data Sheet - Total Hydrocarbons

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	21-Jul-12	End Date:	21-Jul-12
Start Time:	0:00	End Time:	23:59

THC Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/5090512		
Fuel Pressure -	7		
Combustion Air Pressure -	6.0		
Sample Pressure -	2.0		
Range -	0	-	10,000
Calibrant (choose one, x in box)	Propane		x
	Methane		
Cal Gas Molecular Weight:	44.09		g/mol

Initial Calibration Summary	
Operator:	A. Stratton
Date:	18-Jul-12
Time:	17:00

Initial Calibration Data (Hi / Zero)

Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	108
High Gas	8367.0	8370
Response Line	0.987	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)

Calibration Gas	Cylinder Conc.	Predicted Response	Actual Response	Calibration Error	Acceptance Criteria
Low Gas	3140	3101	3150	1.6	< 5% of cylinder concentration
Mid Gas	5052	4989	5040	1.0	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	JP
Date:	22-Jul-12
Time:	11:03

Post Calibration Drift Data

Calibration Gas	Cylinder Conc.	Initial Test Response	Final Test Response	Calibration Drift	Acceptance Criteria
Post Cal 1 Zero	0	108	192	**0.84**	< 3% of the measurement range
Post Cal 1 Upscale	3140	3150	3007	**1.43**	< 3% of the measurement range
					Test Avg. Conc. **395**

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data

Calibration Gas	Required % of Span	Cylinder Conc.	Cylinder Composition	Cylinder Number	Expiration Date	Actual % of Span
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	<0.1%	0	UHP Air		N/A	0%
Low Gas	25-35	3,140	Propane/Air	CC300258	6/30/2013	31%
Mid Gas	45-55	5,052	Propane/Air	CC311566	2/22/2015	51%
High Gas	80-90	8,367	Propane/Air	CC111354	3/2/2015	84%

System Response Time = **120 seconds**

Method 25A Calibration Data Sheet - Total Hydrocarbons

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	22-Jul-12	End Date:	22-Jul-12
Start Time:	0:00	End Time:	23:59

THC Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/5090512		
Fuel Pressure -	7		
Combustion Air Pressure -	6.0		
Sample Pressure -	2.0		
Range -	0	-	10,000
Calibrant (choose one, x in box)	Propane		x
	Methane		
Cal Gas Molecular Weight:	44.09		g/mol

Initial Calibration Summary	
Operator:	A. Stratton
Date:	18-Jul-12
Time:	17:00

Initial Calibration Data (Hi / Zero)

Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	108
High Gas	8367.0	8370
Response Line	0.987	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)

Calibration Gas	Cylinder Conc.	Predicted Response	Actual Response	Calibration Error	Acceptance Criteria
Low Gas	3140	3101	3150	1.6	< 5% of cylinder concentration
Mid Gas	5052	4989	5040	1.0	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	JP
Date:	23-Jul-12
Time:	8:09

Post Calibration Drift Data

Calibration Gas	Cylinder Conc.	Initial Test Response	Final Test Response	Calibration Drift	Acceptance Criteria
Post Cal 1 Zero	0	108	200	**0.92**	< 3% of the measurement range
Post Cal 1 Upscale	3140	3150	3013	**1.37**	< 3% of the measurement range
					Test Avg. Conc. **308**

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data

Calibration Gas	Required % of Span	Cylinder Conc.	Cylinder Composition	Cylinder Number	Expiration Date	Actual % of Span
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	<0.1%	0	UHP Air		N/A	0%
Low Gas	25-35	3,140	Propane/Air	CC300258	6/30/2013	31%
Mid Gas	45-55	5,052	Propane/Air	CC311566	2/22/2015	51%
High Gas	80-90	8,367	Propane/Air	CC111354	3/2/2015	84%

System Response Time = **120 seconds**

Method 25A Calibration Data Sheet - Total Hydrocarbons

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	23-Jul-12	End Date:	23-Jul-12
Start Time:	0:00	End Time:	23:59

THC Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/5090512		
Fuel Pressure -	7		
Combustion Air Pressure -	6.0		
Sample Pressure -	2.0		
Range -	0	-	10,000
Calibrant (choose one, x in box)	Propane		x
	Methane		
Cal Gas Molecular Weight:	44.09		g/mol

Initial Calibration Summary	
Operator:	A. Stratton
Date:	18-Jul-12
Time:	17:00

Initial Calibration Data (Hi / Zero)

Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	108
High Gas	8367.0	8370
Response Line	0.987	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)

Calibration Gas	Cylinder Conc.	Predicted Response	Actual Response	Calibration Error	Acceptance Criteria
Low Gas	3140	3101	3150	1.6	< 5% of cylinder concentration
Mid Gas	5052	4989	5040	1.0	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	TG
Date:	24-Jul-12
Time:	8:02

Post Calibration Drift Data

Calibration Gas	Cylinder Conc.	Initial Test Response	Final Test Response	Calibration Drift	Acceptance Criteria
Post Cal 1 Zero	0	108	213	**1.05**	`< 3% of the measurement range
Post Cal 1 Upscale	3140	3150	3080	**0.70**	< 3% of the measurement range
					Test Avg. Conc. **351**

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data

Calibration Gas	Required % of Span	Cylinder Conc.	Cylinder Composition	Cylinder Number	Expiration Date	Actual % of Span
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	<0.1%	0	UHP Air		N/A	0%
Low Gas	25-35	3,140	Propane/Air	CC300258	6/30/2013	31%
Mid Gas	45-55	5,052	Propane/Air	CC311566	2/22/2015	51%
High Gas	80-90	8,367	Propane/Air	CC111354	3/2/2015	84%

System Response Time = 120 seconds

Method 25A Calibration Data Sheet - Total Hydrocarbons

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	24-Jul-12	End Date:	24-Jul-12
Start Time:	0:00	End Time:	23:59

THC Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/5090512		
Fuel Pressure -	7		
Combustion Air Pressure -	6.0		
Sample Pressure -	2.0		
Range -	0	-	10,000
Calibrant (choose one, x in box)	Propane		x
	Methane		
Cal Gas Molecular Weight:	44.09		g/mol

Initial Calibration Summary	
Operator:	A. Stratton
Date:	18-Jul-12
Time:	17:00

Initial Calibration Data (Hi / Zero)

Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	108
High Gas	8367.0	8370
Response Line	0.987	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)

Calibration Gas	Cylinder Conc.	Predicted Response	Actual Response	Calibration Error	Acceptance Criteria
Low Gas	3140	3101	3150	1.6	< 5% of cylinder concentration
Mid Gas	5052	4989	5040	1.0	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	TG
Date:	25-Jul-12
Time:	12:52

Post Calibration Drift Data

Calibration Gas	Cylinder Conc.	Initial Test Response	Final Test Response	Calibration Drift	Acceptance Criteria
Post Cal 1 Zero	0	108	156	**0.48**	< 3% of the measurement range
Post Cal 1 Upscale	3140	3150	3016	**1.34**	< 3% of the measurement range
					Test Avg. Conc. **340**

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data

Calibration Gas	Required % of Span	Cylinder Conc.	Cylinder Composition	Cylinder Number	Expiration Date	Actual % of Span
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	<0.1%	0	UHP Air		N/A	0%
Low Gas	25-35	3,140	Propane/Air	CC300258	6/30/2013	31%
Mid Gas	45-55	5,052	Propane/Air	CC311566	2/22/2015	51%
High Gas	80-90	8,367	Propane/Air	CC111354	3/2/2015	84%

System Response Time = **120 seconds**

Method 25A Calibration Data Sheet - Total Hydrocarbons

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	25-Jul-12	End Date:	25-Jul-12
Start Time:	0:00	End Time:	23:59

THC Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/5090512		
Fuel Pressure -	7		
Combustion Air Pressure -	6.0		
Sample Pressure -	2.0		
Range -	0	-	10,000
Calibrant (choose one, x in box)	Propane		x
	Methane		
Cal Gas Molecular Weight:	44.09		g/mol

Initial Calibration Summary	
Operator:	A. Stratton
Date:	18-Jul-12
Time:	17:00

Initial Calibration Data (Hi / Zero)

Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	108
High Gas	8367.0	8370
Response Line	0.987	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)

Calibration Gas	Cylinder Conc.	Predicted Response	Actual Response	Calibration Error	Acceptance Criteria
Low Gas	3140	3101	3150	1.6	< 5% of cylinder concentration
Mid Gas	5052	4989	5040	1.0	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	TG
Date:	26-Jul-12
Time:	9:43

Post Calibration Drift Data

Calibration Gas	Cylinder Conc.	Initial Test Response	Final Test Response	Calibration Drift	Acceptance Criteria
Post Cal 1 Zero	0	108	170	**0.62**	< 3% of the measurement range
Post Cal 1 Upscale	3140	3150	2970	**1.80**	< 3% of the measurement range
					Test Avg. Conc. **260**

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data

Calibration Gas	Required % of Span	Cylinder Conc.	Cylinder Composition	Cylinder Number	Expiration Date	Actual % of Span
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	<0.1%	0	UHP Air		N/A	0%
Low Gas	25-35	3,140	Propane/Air	CC300258	6/30/2013	31%
Mid Gas	45-55	5,052	Propane/Air	CC311566	2/22/2015	51%
High Gas	80-90	8,367	Propane/Air	CC111354	3/2/2015	84%

System Response Time = **120 seconds**

Method 25A Calibration Data Sheet - Total Hydrocarbons

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	26-Jul-12	End Date:	26-Jul-12
Start Time:	0:00	End Time:	14:50

THC Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/5090512		
Fuel Pressure -	7		
Combustion Air Pressure -	6.0		
Sample Pressure -	2.0		
Range -	0	-	10,000
Calibrant (choose one, x in box)	Propane		x
	Methane		
Cal Gas Molecular Weight:	44.09		g/mol

Initial Calibration Summary	
Operator:	A. Stratton
Date:	18-Jul-12
Time:	17:00

Initial Calibration Data (Hi / Zero)		
Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	108
High Gas	8367.0	8370
Response Line	0.987	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)					
Calibration Gas	**Cylinder Conc.**	**Predicted Response**	**Actual Response**	**Calibration Error**	**Acceptance Criteria**
Low Gas	3140	3101	3150	1.6	< 5% of cylinder concentration
Mid Gas	5052	4989	5040	1.0	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	A. Stratton
Date:	27-Jul-12
Time:	16:40

Post Calibration Drift Data						
Calibration Gas	**Cylinder Conc.**	**Initial Test Response**	**Final Test Response**	**Calibration Drift**	**Acceptance Criteria**	
Post Cal 1 Zero	0	108	56	**0.52**	< 3% of the measurement range	
Post Cal 1 Upscale	3140	3150	3054	**0.96**	< 3% of the measurement range	
					Test Avg. Conc.	**262**

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data						
Calibration Gas	**Required % of Span**	**Cylinder Conc.**	**Cylinder Composition**	**Cylinder Number**	**Expiration Date**	**Actual % of Span**
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	<0.1%	0	UHP Air		N/A	0%
Low Gas	25-35	3,140	Propane/Air	CC300258	6/30/2013	31%
Mid Gas	45-55	5,052	Propane/Air	CC311566	2/22/2015	51%
High Gas	80-90	8,367	Propane/Air	CC111354	3/2/2015	84%

System Response Time = 120 seconds

Method 25A Calibration Data Sheet - Total Hydrocarbons

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	27-Jul-12	End Date:	27-Jul-12
Start Time:	15:00	End Time:	23:59

THC Analyzer Data		
Manufacturer -	VIG	
Model/Serial Number -	200/5090512	
Fuel Pressure -	7	
Combustion Air Pressure -	6.0	
Sample Pressure -	2.0	
Range -	0 - 10,000	
Calibrant (choose one, x in box)	Propane	x
	Methane	
Cal Gas Molecular Weight:	44.09	g/mol

Initial Calibration Summary	
Operator:	A. Stratton
Date:	18-Jul-12
Time:	17:00

Initial Calibration Data (Hi / Zero)		
Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	108
High Gas	8367.0	8370
Response Line	0.987	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)					
Calibration Gas	**Cylinder Conc.**	**Predicted Response**	**Actual Response**	**Calibration Error**	**Acceptance Criteria**
Low Gas	3140	3101	3150	1.6	< 5% of cylinder concentration
Mid Gas	5052	4989	5040	1.0	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	A. Stratton
Date:	28-Jul-12
Time:	20:51

Post Calibration Drift Data						
Calibration Gas	**Cylinder Conc.**	**Initial Test Response**	**Final Test Response**	**Calibration Drift**	**Acceptance Criteria**	
Post Cal 1 Zero	0	108	160	**0.52**	< 3% of the measurement range	
Post Cal 1 Upscale	3140	3150	3130	**0.20**	< 3% of the measurement range	
Post Cal 2 Upscale	904	n/a	1030	**n/a**	Test Avg. Conc.	**239**

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data						
Calibration Gas	Required % of Span	Cylinder Conc.	Cylinder Composition	Cylinder Number	Expiration Date	Actual % of Span
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	<0.1%	0	UHP Air		N/A	0%
Low Gas	25-35	3,140	Propane/Air	CC300258	6/30/2013	31%
Mid Gas	45-55	5,052	Propane/Air	CC311566	2/22/2015	51%
High Gas	80-90	8,367	Propane/Air	CC111354	3/2/2015	84%

System Response Time = 120 seconds

Method 25A Calibration Data Sheet - Total Hydrocarbons

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	28-Jul-12	End Date:	28-Jul-12
Start Time:	0:00	End Time:	20:30

THC Analyzer Data		
Manufacturer -	VIG	
Model/Serial Number -	200/5090512	
Fuel Pressure -	7	
Combustion Air Pressure -	6.0	
Sample Pressure -	2.0	
Range -	0 - 10,000	
Calibrant (choose one, x in box)	Propane	x
	Methane	
Cal Gas Molecular Weight:	44.09	g/mol

Initial Calibration Summary	
Operator:	A. Stratton
Date:	18-Jul-12
Time:	17:00

Initial Calibration Data (Hi / Zero)		
Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	108
High Gas	8367.0	8370
Response Line	0.987	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)					
Calibration Gas	**Cylinder Conc.**	**Predicted Response**	**Actual Response**	**Calibration Error**	**Acceptance Criteria**
Low Gas	3140	3101	3150	1.6	< 5% of cylinder concentration
Mid Gas	5052	4989	5040	1.0	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	A. Stratton
Date:	28-Jul-12
Time:	20:51

Post Calibration Drift Data						
Calibration Gas	**Cylinder Conc.**	**Initial Test Response**	**Final Test Response**	**Calibration Drift**	**Acceptance Criteria**	
Post Cal 1 Zero	0	108	160	**0.52**	< 3% of the measurement range	
Post Cal 1 Upscale	3140	3150	3130	**0.20**	< 3% of the measurement range	
Post Cal 2 Upscale	904	n/a	1030	**n/a**	Test Avg. Conc.	**297**

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data						
Calibration Gas	**Required % of Span**	**Cylinder Conc.**	**Cylinder Composition**	**Cylinder Number**	**Expiration Date**	**Actual % of Span**
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	<0.1%	0	UHP Air		N/A	0%
Low Gas	25-35	3,140	Propane/Air	CC300258	6/30/2013	31%
Mid Gas	45-55	5,052	Propane/Air	CC311566	2/22/2015	51%
High Gas	80-90	8,367	Propane/Air	CC111354	3/2/2015	84%

System Response Time = 120 seconds

Method 25A Calibration Data Sheet - Total Hydrocarbons

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	29-Jul-12	End Date:	29-Jul-12
Start Time:	10:30	End Time:	23:59

THC Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/5090512		
Fuel Pressure -	7		
Combustion Air Pressure -	6.0		
Sample Pressure -	2.0		
Range -	0	-	1,000
Calibrant (choose one, x in box)	Propane		x
	Methane		
Cal Gas Molecular Weight:	44.09		g/mol

Initial Calibration Summary	
Operator:	A. Stratton
Date:	28-Jul-12
Time:	22:00

Initial Calibration Data (Hi / Zero)		
Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	94
High Gas	903.9	904
Response Line	0.896	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)					
Calibration Gas	**Cylinder Conc.**	**Predicted Response**	**Actual Response**	**Calibration Error**	**Acceptance Criteria**
Low Gas	297	266	365	33.2	< 5% of cylinder concentration
Mid Gas	502	450	540	18.0	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	BAS
Date:	30-Jul-12
Time:	13:50

Post Calibration Drift Data						
Calibration Gas	**Cylinder Conc.**	**Initial Test Response**	**Final Test Response**	**Calibration Drift**	**Acceptance Criteria**	
Post Cal 1 Zero	0	94	120	**2.60**	< 3% of the measurement range	
Post Cal 1 Upscale	904	904	934	**3.00**	< 3% of the measurement range	
					Test Avg. Conc.	**608**

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data						
Calibration Gas	Required % of Span	Cylinder Conc.	Cylinder Composition	Cylinder Number	Expiration Date	Actual % of Span
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	<0.1%	0	UHP Air		N/A	0%
Low Gas	25-35	297.3	Propane/Air	CC350652	3/12/2015	30%
Mid Gas	45-55	501.7	Propane/Air	CC346394	1/14/2014	50%
High Gas	80-90	903.9	Propane/Air	CC272026	8/10/2013	90%

System Response Time = **120 seconds**

Method 25A Calibration Data Sheet - Total Hydrocarbons

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	30-Jul-12	End Date:	30-Jul-12
Start Time:	0:00	End Time:	23:59

THC Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/5090512		
Fuel Pressure -	7		
Combustion Air Pressure -	6.0		
Sample Pressure -	2.0		
Range -	0	-	1,000
Calibrant (choose one, x in box)	Propane		x
	Methane		
Cal Gas Molecular Weight:	44.09	g/mol	

Initial Calibration Summary	
Operator:	A. Stratton
Date:	28-Jul-12
Time:	22:00

Initial Calibration Data (Hi / Zero)

Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	94
High Gas	903.9	904
Response Line	0.896	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)

Calibration Gas	Cylinder Conc.	Predicted Response	Actual Response	Calibration Error	Acceptance Criteria
Low Gas	297	266	365	33.2	< 5% of cylinder concentration
Mid Gas	502	450	540	18.0	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	TJG
Date:	31-Jul-12
Time:	9:35

Post Calibration Drift Data

Calibration Gas	Cylinder Conc.	Initial Test Response	Final Test Response	Calibration Drift	Acceptance Criteria
Post Cal 1 Zero	0	94	127	**3.30**	< 3% of the measurement range
Post Cal 1 Upscale	904	904	934	**3.00**	< 3% of the measurement range
					Test Avg. Conc. **500**

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data

Calibration Gas	Required % of Span	Cylinder Conc.	Cylinder Composition	Cylinder Number	Expiration Date	Actual % of Span
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	<0.1%	0	UHP Air		N/A	0%
Low Gas	25-35	297.3	Propane/Air	CC350652	3/12/2015	30%
Mid Gas	45-55	501.7	Propane/Air	CC346394	1/14/2014	50%
High Gas	80-90	903.9	Propane/Air	CC272026	8/10/2013	90%

System Response Time = 120 seconds

Method 25A Calibration Data Sheet - Total Hydrocarbons

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	31-Jul-12	End Date:	31-Jul-12
Start Time:	0:00	End Time:	23:59

THC Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/5090512		
Fuel Pressure -	7		
Combustion Air Pressure -	6.0		
Sample Pressure -	2.0		
Range -	0	-	1,000
Calibrant (choose one, x in box)	Propane		x
	Methane		
Cal Gas Molecular Weight:	44.09		g/mol

Initial Calibration Summary	
Operator:	A. Stratton
Date:	28-Jul-12
Time:	22:00

Initial Calibration Data (Hi / Zero)		
Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	94
High Gas	903.9	904
Response Line	0.896	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)					
Calibration Gas	**Cylinder Conc.**	**Predicted Response**	**Actual Response**	**Calibration Error**	**Acceptance Criteria**
Low Gas	297	266	365	33.2	< 5% of cylinder concentration
Mid Gas	502	450	540	18.0	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	BAY
Date:	01-Aug-12
Time:	13:40

Post Calibration Drift Data						
Calibration Gas	**Cylinder Conc.**	**Initial Test Response**	**Final Test Response**	**Calibration Drift**	**Acceptance Criteria**	
Post Cal 1 Zero	0	94	117	**2.30**	< 3% of the measurement range	
Post Cal 1 Upscale	904	904	952	**4.80**	< 3% of the measurement range	
					Test Avg. Conc.	**696**

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data						
Calibration Gas	**Required % of Span**	**Cylinder Conc.**	**Cylinder Composition**	**Cylinder Number**	**Expiration Date**	**Actual % of Span**
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	<0.1%	0	UHP Air		N/A	0%
Low Gas	25-35	297.3	Propane/Air	CC350652	3/12/2015	30%
Mid Gas	45-55	501.7	Propane/Air	CC346394	1/14/2014	50%
High Gas	80-90	903.9	Propane/Air	CC272026	8/10/2013	90%

System Response Time = 120 seconds

Method 25A Calibration Data Sheet - Total Hydrocarbons

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	1-Aug-12	End Date:	01-Aug-12
Start Time:	0:00	End Time:	23:59

THC Analyzer Data		
Manufacturer -	VIG	
Model/Serial Number -	200/5090512	
Fuel Pressure -	7	
Combustion Air Pressure -	6.0	
Sample Pressure -	2.0	
Range -	0 - 1,000	
Calibrant (choose one, x in box)	Propane	x
	Methane	
Cal Gas Molecular Weight:	44.09	g/mol

Initial Calibration Summary	
Operator:	A. Stratton
Date:	28-Jul-12
Time:	22:00

Initial Calibration Data (Hi / Zero)		
Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	94
High Gas	903.9	904
Response Line	0.896	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)					
Calibration Gas	**Cylinder Conc.**	**Predicted Response**	**Actual Response**	**Calibration Error**	**Acceptance Criteria**
Low Gas	297	266	365	33.2	< 5% of cylinder concentration
Mid Gas	502	450	540	18.0	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	TJG
Date:	02-Aug-12
Time:	16:48

Post Calibration Drift Data						
Calibration Gas	**Cylinder Conc.**	**Initial Test Response**	**Final Test Response**	**Calibration Drift**	**Acceptance Criteria**	
Post Cal 1 Zero	0	94	125	**3.10**	< 3% of the measurement range	
Post Cal 1 Upscale	904	904	945	**4.10**	< 3% of the measurement range	
					Test Avg. Conc.	**482**

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data						
Calibration Gas	**Required % of Span**	**Cylinder Conc.**	**Cylinder Composition**	**Cylinder Number**	**Expiration Date**	**Actual % of Span**
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	<0.1%	0	UHP Air		N/A	0%
Low Gas	25-35	297.3	Propane/Air	CC350652	3/12/2015	30%
Mid Gas	45-55	501.7	Propane/Air	CC346394	1/14/2014	50%
High Gas	80-90	903.9	Propane/Air	CC272026	8/10/2013	80%

System Response Time = 120 seconds

Method 25A Calibration Data Sheet - Total Hydrocarbons

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	02-Aug-12	End Date:	02-Aug-12
Start Time:	0:00	End Time:	23:59

THC Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/5090512		
Fuel Pressure -	7		
Combustion Air Pressure -	6.0		
Sample Pressure -	2.0		
Range -	0	-	1,000
Calibrant (choose one, x in box)	Propane		x
	Methane		
Cal Gas Molecular Weight:	**44.09**		**g/mol**

Initial Calibration Summary	
Operator:	A. Stratton
Date:	28-Jul-12
Time:	22:00

Initial Calibration Data (Hi / Zero)		
Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	94
High Gas	903.9	904
Response Line	0.896	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)					
Calibration Gas	**Cylinder Conc.**	**Predicted Response**	**Actual Response**	**Calibration Error**	**Acceptance Criteria**
Low Gas	297	266	365	33.2	< 5% of cylinder concentration
Mid Gas	502	450	540	18.0	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	TJG
Date:	03-Aug-12
Time:	19:04

Post Calibration Drift Data						
Calibration Gas	**Cylinder Conc.**	**Initial Test Response**	**Final Test Response**	**Calibration Drift**	**Acceptance Criteria**	
Post Cal 1 Zero	0	94	150	**5.60**	< 3% of the measurement range	
Post Cal 1 Upscale	904	904	990	**8.60**	< 3% of the measurement range	
					Test Avg. Conc.	**500**

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data						
Calibration Gas	**Required % of Span**	**Cylinder Conc.**	**Cylinder Composition**	**Cylinder Number**	**Expiration Date**	**Actual % of Span**
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	<0.1%	0	UHP Air		N/A	0%
Low Gas	25-35	297.3	Propane/Air	CC350652	3/12/2015	30%
Mid Gas	45-55	501.7	Propane/Air	CC346394	1/14/2014	50%
High Gas	80-90	903.9	Propane/Air	CC272026	8/10/2013	90%

System Response Time = 120 seconds

Method 25A Calibration Data Sheet - Total Hydrocarbons

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	03-Aug-12	End Date:	03-Aug-12
Start Time:	0:00	End Time:	23:59

THC Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/5090512		
Fuel Pressure -	7		
Combustion Air Pressure -	6.0		
Sample Pressure -	2.0		
Range -	0	-	1,000
Calibrant (choose one, x in box)	Propane		x
	Methane		
Cal Gas Molecular Weight:	44.09		g/mol

Initial Calibration Summary	
Operator:	A. Stratton
Date:	28-Jul-12
Time:	22:00

Initial Calibration Data (Hi / Zero)		
Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	94
High Gas	903.9	904
Response Line	0.896	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)					
Calibration Gas	**Cylinder Conc.**	**Predicted Response**	**Actual Response**	**Calibration Error**	**Acceptance Criteria**
Low Gas	297	266	365	33.2	< 5% of cylinder concentration
Mid Gas	502	450	540	18.0	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	TJG
Date:	04-Aug-12
Time:	9:15

Post Calibration Drift Data						
Calibration Gas	**Cylinder Conc.**	**Initial Test Response**	**Final Test Response**	**Calibration Drift**	**Acceptance Criteria**	
Post Cal 1 Zero	0	94	180	**8.60**	< 3% of the measurement range	
Post Cal 1 Upscale	904	904	1002	**9.80**	< 3% of the measurement range	
					Test Avg. Conc.	**546**

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data						
Calibration Gas	**Required % of Span**	**Cylinder Conc.**	**Cylinder Composition**	**Cylinder Number**	**Expiration Date**	**Actual % of Span**
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	<0.1%	0	UHP Air		N/A	0%
Low Gas	25-35	297.3	Propane/Air	CC350652	3/12/2015	30%
Mid Gas	45-55	501.7	Propane/Air	CC346394	1/14/2014	50%
High Gas	80-90	903.9	Propane/Air	CC272026	8/10/2013	90%

System Response Time = 120 seconds

Method 25A Calibration Data Sheet - Total Hydrocarbons

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	04-Aug-12	End Date:	04-Aug-12
Start Time:	0:00	End Time:	23:59

THC Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/5090512		
Fuel Pressure -	7		
Combustion Air Pressure -	6.0		
Sample Pressure -	2.0		
Range -	0	-	1,000
Calibrant (choose one, x in box)	Propane		x
	Methane		
Cal Gas Molecular Weight:	44.09		g/mol

Initial Calibration Summary	
Operator:	A. Stratton
Date:	28-Jul-12
Time:	22:00

Initial Calibration Data (Hi / Zero)		
Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	94
High Gas	903.9	904
Response Line	0.896	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)					
Calibration Gas	**Cylinder Conc.**	**Predicted Response**	**Actual Response**	**Calibration Error**	**Acceptance Criteria**
Low Gas	297	266	365	33.2	< 5% of cylinder concentration
Mid Gas	502	450	540	18.0	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	TJG
Date:	06-Aug-12
Time:	11:15

Post Calibration Drift Data						
Calibration Gas	**Cylinder Conc.**	**Initial Test Response**	**Final Test Response**	**Calibration Drift**	**Acceptance Criteria**	
Post Cal 1 Zero	0	94	201	**10.70**	< 3% of the measurement range	
Post Cal 1 Upscale	904	904	853	**5.10**	< 3% of the measurement range	
					Test Avg. Conc.	**532**

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data						
Calibration Gas	**Required % of Span**	**Cylinder Conc.**	**Cylinder Composition**	**Cylinder Number**	**Expiration Date**	**Actual % of Span**
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	≤0.1%	0	UHP Air		N/A	0%
Low Gas	25-35	297.3	Propane/Air	CC350652	3/12/2015	30%
Mid Gas	45-55	501.7	Propane/Air	CC346394	1/14/2014	50%
High Gas	80-90	903.9	Propane/Air	CC272026	8/10/2013	90%

System Response Time = 120 seconds

Method 25A Calibration Data Sheet - Total Hydrocarbons

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	05-Aug-12	End Date:	05-Aug-12
Start Time:	0:00	End Time:	23:59

THC Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/5090512		
Fuel Pressure -	7		
Combustion Air Pressure -	6.0		
Sample Pressure -	2.0		
Range -	0 -	1,000	
Calibrant (choose one, x in box)	Propane	x	
	Methane		
Cal Gas Molecular Weight:	44.09	g/mol	

Initial Calibration Summary	
Operator:	A. Stratton
Date:	28-Jul-12
Time:	22:00

Initial Calibration Data (Hi / Zero)		
Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	94
High Gas	903.9	904
Response Line	0.896	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)					
Calibration Gas	**Cylinder Conc.**	**Predicted Response**	**Actual Response**	**Calibration Error**	**Acceptance Criteria**
Low Gas	297	266	365	33.2	< 5% of cylinder concentration
Mid Gas	502	450	540	18.0	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	TJG
Date:	06-Aug-12
Time:	11:15

Post Calibration Drift Data						
Calibration Gas	**Cylinder Conc.**	**Initial Test Response**	**Final Test Response**	**Calibration Drift**	**Acceptance Criteria**	
Post Cal 1 Zero	0	94	201	**10.70**	< 3% of the measurement range	
Post Cal 1 Upscale	904	904	853	**5.10**	< 3% of the measurement range	
					Test Avg. Conc.	**438**

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data						
Calibration Gas	**Required % of Span**	**Cylinder Conc.**	**Cylinder Composition**	**Cylinder Number**	**Expiration Date**	**Actual % of Span**
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	<0.1%	0	UHP Air		N/A	0%
Low Gas	25-35	297.3	Propane/Air	CC350652	3/12/2015	30%
Mid Gas	45-55	501.7	Propane/Air	CC346394	1/14/2014	50%
High Gas	80-90	903.9	Propane/Air	CC272026	8/10/2013	90%

System Response Time = 120 seconds

Method 25A Calibration Data Sheet - Total Hydrocarbons

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	06-Aug-12	End Date:	06-Aug-12
Start Time:	0:00	End Time:	23:59

THC Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/5090512		
Fuel Pressure -	7		
Combustion Air Pressure -	6.0		
Sample Pressure -	2.0		
Range -	0	-	1,000
Calibrant (choose one, x in box)	Propane		x
	Methane		
Cal Gas Molecular Weight:	44.09		g/mol

Initial Calibration Summary	
Operator:	A. Stratton
Date:	28-Jul-12
Time:	22:00

Initial Calibration Data (HI / Zero)		
Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	94
High Gas	903.9	904
Response Line	0.896	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)					
Calibration Gas	**Cylinder Conc.**	**Predicted Response**	**Actual Response**	**Calibration Error**	**Acceptance Criteria**
Low Gas	297	266	365	33.2	< 5% of cylinder concentration
Mid Gas	502	450	540	18.0	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	TJG
Date:	07-Aug-12
Time:	9:37

Post Calibration Drift Data						
Calibration Gas	**Cylinder Conc.**	**Initial Test Response**	**Final Test Response**	**Calibration Drift**	**Acceptance Criteria**	
Post Cal 1 Zero	0	94	130	**3.60**	< 3% of the measurement range	
Post Cal 1 Upscale	904	904	930	**2.60**	< 3% of the measurement range	
					Test Avg. Conc.	**465**

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data						
Calibration Gas	**Required % of Span**	**Cylinder Conc.**	**Cylinder Composition**	**Cylinder Number**	**Expiration Date**	**Actual % of Span**
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	<0.1%	0	UHP Air		N/A	0%
Low Gas	25-35	297.3	Propane/Air	CC350652	3/12/2015	30%
Mid Gas	45-55	501.7	Propane/Air	CC346394	1/14/2014	50%
High Gas	80-90	903.9	Propane/Air	CC272026	8/10/2013	90%

System Response Time = 120 seconds

Method 25A Calibration Data Sheet - Total Hydrocarbons

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	07-Aug-12	End Date:	07-Aug-12
Start Time:	0:00	End Time:	23:59

THC Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/5090512		
Fuel Pressure -	7		
Combustion Air Pressure -	6.0		
Sample Pressure -	2.0		
Range -	0	-	1,000
Calibrant (choose one, x in box)	Propane		x
	Methane		
Cal Gas Molecular Weight:	44.09		g/mol

Initial Calibration Summary	
Operator:	A. Stratton
Date:	28-Jul-12
Time:	22:00

Initial Calibration Data (Hi / Zero)		
Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	94
High Gas	903.9	904
Response Line	0.896	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)					
Calibration Gas	Cylinder Conc.	Predicted Response	Actual Response	Calibration Error	Acceptance Criteria
Low Gas	297	266	365	33.2	< 5% of cylinder concentration
Mid Gas	502	450	540	18.0	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	TJG
Date:	08-Aug-12
Time:	9:35

Post Calibration Drift Data						
Calibration Gas	Cylinder Conc.	Initial Test Response	Final Test Response	Calibration Drift	Acceptance Criteria	
Post Cal 1 Zero	0	94	154	**6.00**	< 3% of the measurement range	
Post Cal 1 Upscale	904	904	930	**2.60**	< 3% of the measurement range	
					Test Avg. Conc.	**478**

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data						
Calibration Gas	Required % of Span	Cylinder Conc.	Cylinder Composition	Cylinder Number	Expiration Date	Actual % of Span
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	<0.1%	0	UHP Air		N/A	0%
Low Gas	25-35	297.3	Propane/Air	CC350652	3/12/2015	30%
Mid Gas	45-55	501.7	Propane/Air	CC346394	1/14/2014	50%
High Gas	80-90	903.9	Propane/Air	CC272026	8/10/2013	90%

System Response Time = 120 seconds

Method 25A Calibration Data Sheet - Total Hydrocarbons

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	08-Aug-12	End Date:	08-Aug-12
Start Time:	0:00	End Time:	23:59

THC Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/5090512		
Fuel Pressure -	7		
Combustion Air Pressure -	6.0		
Sample Pressure -	2.0		
Range -	0	-	1,000
Calibrant (choose one, x in box)	Propane		x
	Methane		
Cal Gas Molecular Weight:	44.09	g/mol	

Initial Calibration Summary	
Operator:	A. Stratton
Date:	28-Jul-12
Time:	22:00

Initial Calibration Data (Hi / Zero)

Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	94
High Gas	903.9	904
Response Line	0.896	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)

Calibration Gas	Cylinder Conc.	Predicted Response	Actual Response	Calibration Error	Acceptance Criteria
Low Gas	297	266	365	33.2	< 5% of cylinder concentration
Mid Gas	502	450	540	18.0	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	TJG
Date:	09-Aug-12
Time:	9:26

Post Calibration Drift Data

Calibration Gas	Cylinder Conc.	Initial Test Response	Final Test Response	Calibration Drift	Acceptance Criteria
Post Cal 1 Zero	0	94	146	**5.20**	< 3% of the measurement range
Post Cal 1 Upscale	904	904	925	**2.10**	< 3% of the measurement range
				Test Avg. Conc.	**490**

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data

Calibration Gas	Required % of Span	Cylinder Conc.	Cylinder Composition	Cylinder Number	Expiration Date	Actual % of Span
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	<0.1%	0	UHP Air		N/A	0%
Low Gas	25-35	297.3	Propane/Air	CC350652	3/12/2015	30%
Mid Gas	45-55	501.7	Propane/Air	CC346394	1/14/2014	50%
High Gas	80-90	903.9	Propane/Air	CC272026	8/10/2013	90%

System Response Time = **120 seconds**

Method 25A Calibration Data Sheet - Total Hydrocarbons

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	09-Aug-12	End Date:	09-Aug-12
Start Time:	0:00	End Time:	23:59

THC Analyzer Data		
Manufacturer -	VIG	
Model/Serial Number -	200/5090512	
Fuel Pressure -	7	
Combustion Air Pressure -	6.0	
Sample Pressure -	2.0	
Range -	0 - 1,000	
Calibrant (choose one, x in box)	Propane	x
	Methane	
Cal Gas Molecular Weight:	44.09	g/mol

Initial Calibration Summary	
Operator:	A. Stratton
Date:	28-Jul-12
Time:	22:00

Initial Calibration Data (Hi / Zero)		
Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	94
High Gas	903.9	904
Response Line	0.896	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)					
Calibration Gas	Cylinder Conc.	Predicted Response	Actual Response	Calibration Error	Acceptance Criteria
Low Gas	297	266	365	33.2	< 5% of cylinder concentration
Mid Gas	502	450	540	18.0	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	TJG
Date:	10-Aug-12
Time:	9:30

Post Calibration Drift Data						
Calibration Gas	Cylinder Conc.	Initial Test Response	Final Test Response	Calibration Drift	Acceptance Criteria	
Post Cal 1 Zero	0	94	131	**3.70**	< 3% of the measurement range	
Post Cal 1 Upscale	904	904	899	**0.50**	< 3% of the measurement range	
					Test Avg. Conc.	**481**

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data						
Calibration Gas	Required % of Span	Cylinder Conc.	Cylinder Composition	Cylinder Number	Expiration Date	Actual % of Span
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	<0.1%	0	UHP Air		N/A	0%
Low Gas	25-35	297.3	Propane/Air	CC350652	3/12/2015	30%
Mid Gas	45-55	501.7	Propane/Air	CC346394	1/14/2014	50%
High Gas	80-90	903.9	Propane/Air	CC272026	8/10/2013	90%

System Response Time = **120 seconds**

Method 25A Calibration Data Sheet - Total Hydrocarbons

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	10-Aug-12	End Date:	10-Aug-12
Start Time:	0:00	End Time:	23:59

THC Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/5090512		
Fuel Pressure -	7		
Combustion Air Pressure -	6.0		
Sample Pressure -	2.0		
Range -	0	-	1,000
Calibrant (choose one, x in box)	Propane		x
	Methane		
Cal Gas Molecular Weight:	**44.09**		**g/mol**

Initial Calibration Summary	
Operator:	A. Stratton
Date:	28-Jul-12
Time:	22:00

Initial Calibration Data (Hi / Zero)		
Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	94
High Gas	903.9	904
Response Line	0.896	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)					
Calibration Gas	**Cylinder Conc.**	**Predicted Response**	**Actual Response**	**Calibration Error**	**Acceptance Criteria**
Low Gas	297	266	365	33.2	< 5% of cylinder concentration
Mid Gas	502	450	540	18.0	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	BAY
Date:	13-Aug-12
Time:	14:40

Post Calibration Drift Data						
Calibration Gas	**Cylinder Conc.**	**Initial Test Response**	**Final Test Response**	**Calibration Drift**	**Acceptance Criteria**	
Post Cal 1 Zero	0	94	126	**3.20**	< 3% of the measurement range	
Post Cal 1 Upscale	904	904	936	**3.20**	< 3% of the measurement range	
					Test Avg. Conc.	**404**

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data						
Calibration Gas	**Required % of Span**	**Cylinder Conc.**	**Cylinder Composition**	**Cylinder Number**	**Expiration Date**	**Actual % of Span**
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	<0.1%	0	UHP Air		N/A	0%
Low Gas	25-35	297.3	Propane/Air	CC350652	3/12/2015	30%
Mid Gas	45-55	501.7	Propane/Air	CC346394	1/14/2014	50%
High Gas	80-90	903.9	Propane/Air	CC272026	8/10/2013	90%

System Response Time = 120 seconds

Method 25A Calibration Data Sheet - Total Hydrocarbons

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	11-Aug-12	End Date:	11-Aug-12
Start Time:	0:00	End Time:	23:59

THC Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/5090512		
Fuel Pressure -	7		
Combustion Air Pressure -	6.0		
Sample Pressure -	2.0		
Range -	0	-	1,000
Calibrant (choose one, x in box)	Propane		x
	Methane		
Cal Gas Molecular Weight:	44.09		g/mol

Initial Calibration Summary	
Operator:	A. Stratton
Date:	28-Jul-12
Time:	22:00

Initial Calibration Data (Hi / Zero)		
Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	94
High Gas	903.9	904
Response Line	0.896	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)					
Calibration Gas	**Cylinder Conc.**	**Predicted Response**	**Actual Response**	**Calibration Error**	**Acceptance Criteria**
Low Gas	297	266	365	33.2	< 5% of cylinder concentration
Mid Gas	502	450	540	18.0	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	BAY
Date:	13-Aug-12
Time:	14:40

Post Calibration Drift Data						
Calibration Gas	**Cylinder Conc.**	**Initial Test Response**	**Final Test Response**	**Calibration Drift**	**Acceptance Criteria**	
Post Cal 1 Zero	0	94	126	**3.20**	< 3% of the measurement range	
Post Cal 1 Upscale	904	904	936	**3.20**	< 3% of the measurement range	
					Test Avg. Conc.	**407**

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data						
Calibration Gas	**Required % of Span**	**Cylinder Conc.**	**Cylinder Composition**	**Cylinder Number**	**Expiration Date**	**Actual % of Span**
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	<0.1%	0	UHP Air		N/A	0%
Low Gas	25-35	297.3	Propane/Air	CC350652	3/12/2015	30%
Mid Gas	45-55	501.7	Propane/Air	CC346394	1/14/2014	50%
High Gas	80-90	903.9	Propane/Air	CC272026	8/10/2013	90%

System Response Time = 120 seconds

Method 25A Calibration Data Sheet - Total Hydrocarbons

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	12-Aug-12	End Date:	12-Aug-12
Start Time:	0:00	End Time:	23:59

THC Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/5090512		
Fuel Pressure -	7		
Combustion Air Pressure -	6.0		
Sample Pressure -	2.0		
Range -	0	-	1,000
Calibrant (choose one, x in box)	Propane		x
	Methane		
Cal Gas Molecular Weight:	44.09		g/mol

Initial Calibration Summary	
Operator:	A. Stratton
Date:	28-Jul-12
Time:	22:00

Initial Calibration Data (Hi / Zero)		
Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	94
High Gas	903.9	904
Response Line	0.896	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)					
Calibration Gas	Cylinder Conc.	Predicted Response	Actual Response	Calibration Error	Acceptance Criteria
Low Gas	297	266	365	33.2	< 5% of cylinder concentration
Mid Gas	502	450	540	18.0	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	BAY
Date:	13-Aug-12
Time:	14:40

Post Calibration Drift Data						
Calibration Gas	Cylinder Conc.	Initial Test Response	Final Test Response	Calibration Drift	Acceptance Criteria	
Post Cal 1 Zero	0	94	126	**3.20**	< 3% of the measurement range	
Post Cal 1 Upscale	904	904	936	**3.20**	< 3% of the measurement range	
					Test Avg. Conc.	**374**

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data						
Calibration Gas	Required % of Span	Cylinder Conc.	Cylinder Composition	Cylinder Number	Expiration Date	Actual % of Span
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	<0.1%	0	UHP Air		N/A	0%
Low Gas	25-35	297.3	Propane/Air	CC350652	3/12/2015	30%
Mid Gas	45-55	501.7	Propane/Air	CC346394	1/14/2014	50%
High Gas	80-90	903.9	Propane/Air	CC272026	8/10/2013	90%

System Response Time = 120 seconds

Method 25A Calibration Data Sheet - Total Hydrocarbons

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	13-Aug-12	End Date:	13-Aug-12
Start Time:	0:00	End Time:	23:59

THC Analyzer Data		
Manufacturer -	VIG	
Model/Serial Number -	200/5090512	
Fuel Pressure -	7	
Combustion Air Pressure -	6.0	
Sample Pressure -	2.0	
Range -	0 - 1,000	
Calibrant (choose one, x in box)	Propane	x
	Methane	
Cal Gas Molecular Weight:	44.09	g/mol

Initial Calibration Summary	
Operator:	A. Stratton
Date:	28-Jul-12
Time:	22:00

Initial Calibration Data (Hi / Zero)		
Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	94
High Gas	903.9	904
Response Line	0.896	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)					
Calibration Gas	**Cylinder Conc.**	**Predicted Response**	**Actual Response**	**Calibration Error**	**Acceptance Criteria**
Low Gas	297	266	365	33.2	< 5% of cylinder concentration
Mid Gas	502	450	540	18.0	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	BAY
Date:	14-Aug-12
Time:	15:07

Post Calibration Drift Data						
Calibration Gas	**Cylinder Conc.**	**Initial Test Response**	**Final Test Response**	**Calibration Drift**	**Acceptance Criteria**	
Post Cal 1 Zero	0	94	125	**3.10**	< 3% of the measurement range	
Post Cal 1 Upscale	904	904	932	**2.80**	< 3% of the measurement range	
					Test Avg. Conc.	**387**

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data						
Calibration Gas	**Required % of Span**	**Cylinder Conc.**	**Cylinder Composition**	**Cylinder Number**	**Expiration Date**	**Actual % of Span**
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	<0.1%	0	UHP Air		N/A	0%
Low Gas	25-35	297.3	Propane/Air	CC350652	3/12/2015	30%
Mid Gas	45-55	501.7	Propane/Air	CC346394	1/14/2014	50%
High Gas	80-90	903.9	Propane/Air	CC272026	8/10/2013	90%

System Response Time = 120 seconds

Method 25A Calibration Data Sheet - Total Hydrocarbons

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	14-Aug-12	End Date:	14-Aug-12
Start Time:	0:00	End Time:	23:59

THC Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/5090512		
Fuel Pressure -	7		
Combustion Air Pressure -	6.0		
Sample Pressure -	2.0		
Range -	0	-	1,000
Calibrant (choose one, x in box)	Propane		x
	Methane		
Cal Gas Molecular Weight:	44.09		g/mol

Initial Calibration Summary	
Operator:	A. Stratton
Date:	28-Jul-12
Time:	22:00

Initial Calibration Data (Hi / Zero)		
Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	94
High Gas	903.9	904
Response Line	0.896	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)					
Calibration Gas	**Cylinder Conc.**	**Predicted Response**	**Actual Response**	**Calibration Error**	**Acceptance Criteria**
Low Gas	297	266	365	33.2	< 5% of cylinder concentration
Mid Gas	502	450	540	18.0	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	JRP
Date:	15-Aug-12
Time:	12:54

Post Calibration Drift Data						
Calibration Gas	**Cylinder Conc.**	**Initial Test Response**	**Final Test Response**	**Calibration Drift**	**Acceptance Criteria**	
Post Cal 1 Zero	0	94	149	**5.50**	< 3% of the measurement range	
Post Cal 1 Upscale	904	904	926	**2.20**	< 3% of the measurement range	
					Test Avg. Conc.	**417**

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data						
Calibration Gas	**Required % of Span**	**Cylinder Conc.**	**Cylinder Composition**	**Cylinder Number**	**Expiration Date**	**Actual % of Span**
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	<0.1%	0	UHP Air		N/A	0%
Low Gas	25-35	297.3	Propane/Air	CC350652	3/12/2015	30%
Mid Gas	45-55	501.7	Propane/Air	CC346394	1/14/2014	50%
High Gas	80-90	903.9	Propane/Air	CC272026	8/10/2013	90%

System Response Time = 120 seconds

Method 25A Calibration Data Sheet - Total Hydrocarbons

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	15-Aug-12	End Date:	15-Aug-12
Start Time:	0:00	End Time:	23:59

THC Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/5090512		
Fuel Pressure -	7		
Combustion Air Pressure -	6.0		
Sample Pressure -	2.0		
Range -	0	-	1,000
Calibrant (choose one, x in box)	Propane		x
	Methane		
Cal Gas Molecular Weight:	44.09		g/mol

Initial Calibration Summary	
Operator:	A. Stratton
Date:	28-Jul-12
Time:	22:00

Initial Calibration Data (Hi / Zero)

Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	94
High Gas	903.9	904
Response Line	0.896	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)

Calibration Gas	Cylinder Conc.	Predicted Response	Actual Response	Calibration Error	Acceptance Criteria
Low Gas	297	266	365	33.2	< 5% of cylinder concentration
Mid Gas	502	450	540	18.0	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	A. Stratton
Date:	16-Aug-12
Time:	17:00

Post Calibration Drift Data

Calibration Gas	Cylinder Conc.	Initial Test Response	Final Test Response	Calibration Drift	Acceptance Criteria
Post Cal 1 Zero	0	94	154	**6.00**	< 3% of the measurement range
Post Cal 1 Upscale	904	904	969	**6.50**	< 3% of the measurement range
					Test Avg. Conc. **399**

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data

Calibration Gas	Required % of Span	Cylinder Conc.	Cylinder Composition	Cylinder Number	Expiration Date	Actual % of Span
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	<0.1%	0	UHP Air		N/A	0%
Low Gas	25-35	297.3	Propane/Air	CC350652	3/12/2015	30%
Mid Gas	45-65	501.7	Propane/Air	CC346394	1/14/2014	50%
High Gas	80-90	903.9	Propane/Air	CC272026	8/10/2013	90%

System Response Time = 120 seconds

Method 25A Calibration Data Sheet - Total Hydrocarbons

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	16-Aug-12	End Date:	16-Aug-12
Start Time:	0:00	End Time:	16:52

THC Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/5090512		
Fuel Pressure -	7		
Combustion Air Pressure -	6.0		
Sample Pressure -	2.0		
Range -	0	-	1,000
Calibrant (choose one, x in box)	Propane		x
	Methane		
Cal Gas Molecular Weight:	44.09		g/mol

Initial Calibration Summary	
Operator:	A. Stratton
Date:	28-Jul-12
Time:	22:00

Initial Calibration Data (Hi / Zero)		
Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	94
High Gas	903.9	904
Response Line	0.896	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)					
Calibration Gas	**Cylinder Conc.**	**Predicted Response**	**Actual Response**	**Calibration Error**	**Acceptance Criteria**
Low Gas	297	266	365	33.2	< 5% of cylinder concentration
Mid Gas	502	450	540	18.0	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	A. Stratton
Date:	16-Aug-12
Time:	17:00

Post Calibration Drift Data						
Calibration Gas	**Cylinder Conc.**	**Initial Test Response**	**Final Test Response**	**Calibration Drift**	**Acceptance Criteria**	
Post Cal 1 Zero	0	94	154	**6.00**	< 3% of the measurement range	
Post Cal 1 Upscale	904	904	969	**6.50**	< 3% of the measurement range	
					Test Avg. Conc.	**378**

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data						
Calibration Gas	**Required % of Span**	**Cylinder Conc.**	**Cylinder Composition**	**Cylinder Number**	**Expiration Date**	**Actual % of Span**
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	<0.1%	0	UHP Air		N/A	0%
Low Gas	25-35	297.3	Propane/Air	CC350652	3/12/2015	30%
Mid Gas	45-55	501.7	Propane/Air	CC346394	1/14/2014	50%
High Gas	80-90	903.9	Propane/Air	CC272026	8/10/2013	90%

System Response Time = 120 seconds

Method 25A Calibration Data Sheet - Methane

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	18-Jul-12	End Date:	18-Jul-12
Start Time:	18:15	End Time:	23:59

THC Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/5090512		
Fuel Pressure -	7.0		
Combustion Air Pressure -	6.0		
Carrier Gas Pressure -	20.0		
Range -	0	-	100
Calibrant (choose one, x in box)	Propane		
	Methane		x
Cal Gas Molecular Weight:	16.039	g/mol	

Initial Calibration Summary	
Operator:	A. Stratton
Date:	18-Jul-12
Time:	17:00

Initial Calibration Data (Hi / Zero)		
Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	0.6
High Gas	88.2	89
Response Line	1.002	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)					
Calibration Gas	**Cylinder Conc.**	**Predicted Response**	**Actual Response**	**Calibration Error**	**Acceptance Criteria**
Low Gas	30.5	31	30	1.9	< 5% of cylinder concentration
Mid Gas	50.9	51	51	0.0	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	BAS
Date:	19-Jul-12
Time:	15:15

Post Calibration Drift Data						
Calibration Gas	**Cylinder Conc.**	**Initial Test Response**	**Final Test Response**	**Calibration Drift**	**Acceptance Criteria**	
Post Cal 1 Zero	0	1	0	**0.6**	< 3% of the measurement range	
Post Cal 1 Upscale	51	51	46	**5.0**	< 3% of the measurement range	
					Test Avg. Conc.	**16**

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data						
Calibration Gas	**Required % of Span**	**Cylinder Conc.**	**Cylinder Composition**	**Cylinder Number**	**Expiration Date**	**Actual % of Span**
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	<0.1%	0	UHP Air		N/A	0%
Low Gas	25-35	30.5	CH4/Air	CC80798	8/26/2014	31%
Mid Gas	45-55	50.9	CH4/Air	CC78508	8/26/2014	51%
High Gas	80-90	88.2	CH4/Air	CC9110	8/26/2014	88%

System Response Time = 120 seconds

Method 25A Calibration Data Sheet - Methane

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	19-Jul-12	End Date:	19-Jul-12
Start Time:	0:00	End Time:	23:59

THC Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/5090512		
Fuel Pressure -	7.0		
Combustion Air Pressure -	6.0		
Carrier Gas Pressure -	20.0		
Range -	0	-	100
Calibrant (choose one, x in box)	Propane		
	Methane		x
Cal Gas Molecular Weight:	16.039	g/mol	

Initial Calibration Summary	
Operator:	A. Stratton
Date:	18-Jul-12
Time:	17:00

Initial Calibration Data (Hi / Zero)		
Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	0.6
High Gas	88.2	89
Response Line	1.002	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)					
Calibration Gas	**Cylinder Conc.**	**Predicted Response**	**Actual Response**	**Calibration Error**	**Acceptance Criteria**
Low Gas	30.5	31	30	1.9	< 5% of cylinder concentration
Mid Gas	50.9	51	51	0.0	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	BAY
Date:	20-Jul-12
Time:	14:50

Post Calibration Drift Data						
Calibration Gas	**Cylinder Conc.**	**Initial Test Response**	**Final Test Response**	**Calibration Drift**	**Acceptance Criteria**	
Post Cal 1 Zero	0	1	0		< 3% of the measurement range	
Post Cal 1 Upscale	51	51	48	**3.0**	< 3% of the measurement range	
					Test Avg. Conc.	**9**

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data						
Calibration Gas	Required % of Span	Cylinder Conc.	Cylinder Composition	Cylinder Number	Expiration Date	Actual % of Span
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	<0.1%	0	UHP Air		N/A	0%
Low Gas	25-35	30.5	CH4/Air	CC80798	8/26/2014	31%
Mid Gas	45-55	50.9	CH4/Air	CC78508	8/26/2014	51%
High Gas	80-90	88.2	CH4/Air	CC9110	8/26/2014	88%

System Response Time = 120 seconds

Method 25A Calibration Data Sheet - Methane

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	20-Jul-12	End Date:	20-Jul-12
Start Time:	0:00	End Time:	23:59

THC Analyzer Data		
Manufacturer -	VIG	
Model/Serial Number -	200/5090512	
Fuel Pressure -	7.0	
Combustion Air Pressure -	6.0	
Carrier Gas Pressure -	20.0	
Range -	0 - 100	
Calibrant (choose one, x in box)	Propane	
	Methane	x
Cal Gas Molecular Weight:	16.039	g/mol

Initial Calibration Summary	
Operator:	A. Stratton
Date:	18-Jul-12
Time:	17:00

Initial Calibration Data (Hi / Zero)		
Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	0.6
High Gas	88.2	89
Response Line	1.002	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)					
Calibration Gas	**Cylinder Conc.**	**Predicted Response**	**Actual Response**	**Calibration Error**	**Acceptance Criteria**
Low Gas	30.5	31	30	1.9	< 5% of cylinder concentration
Mid Gas	50.9	51	51	0.0	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	JP
Date:	21-Jul-12
Time:	8:45

Post Calibration Drift Data						
Calibration Gas	**Cylinder Conc.**	**Initial Test Response**	**Final Test Response**	**Calibration Drift**	**Acceptance Criteria**	
Post Cal 1 Zero	0	1	0	**0.6**	< 3% of the measurement range	
Post Cal 1 Upscale	51	51	48	**3.0**	< 3% of the measurement range	
					Test Avg. Conc.	**10**

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data						
Calibration Gas	Required % of Span	Cylinder Conc.	Cylinder Composition	Cylinder Number	Expiration Date	Actual % of Span
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	<0.1%	0	UHP Air		N/A	0%
Low Gas	25-35	30.5	CH4/Air	CC80798	8/26/2014	31%
Mid Gas	45-55	50.9	CH4/Air	CC78508	8/26/2014	51%
High Gas	80-90	88.2	CH4/Air	CC9110	8/26/2014	88%

System Response Time = 120 seconds

Method 25A Calibration Data Sheet - Methane

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	21-Jul-12	End Date:	21-Jul-12
Start Time:	0:00	End Time:	23:59

THC Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/5090512		
Fuel Pressure -	7.0		
Combustion Air Pressure -	6.0		
Carrier Gas Pressure -	20.0		
Range -	0	-	100
Calibrant (choose one, x in box)	Propane		
	Methane		x
Cal Gas Molecular Weight:	16.039	g/mol	

Initial Calibration Summary	
Operator:	A. Stratton
Date:	18-Jul-12
Time:	17:00

Initial Calibration Data (Hi / Zero)		
Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	0.6
High Gas	88.2	89
Response Line	1.002	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)					
Calibration Gas	Cylinder Conc.	Predicted Response	Actual Response	Calibration Error	Acceptance Criteria
Low Gas	30.5	31	30	1.9	< 5% of cylinder concentration
Mid Gas	50.9	51	51	0.0	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	JP
Date:	22-Jul-12
Time:	11:03

Post Calibration Drift Data						
Calibration Gas	Cylinder Conc.	Initial Test Response	Final Test Response	Calibration Drift	Acceptance Criteria	
Post Cal 1 Zero	0	1	0	0.6	< 3% of the measurement range	
Post Cal 1 Upscale	51	51	45	6.0	< 3% of the measurement range	
					Test Avg. Conc.	8

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data						
Calibration Gas	Required % of Span	Cylinder Conc.	Cylinder Composition	Cylinder Number	Expiration Date	Actual % of Span
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	<0.1%	0	UHP Air		N/A	0%
Low Gas	25-35	30.5	CH4/Air	CC80798	8/26/2014	31%
Mid Gas	45-55	50.9	CH4/Air	CC78508	8/26/2014	51%
High Gas	80-90	88.2	CH4/Air	CC9110	8/26/2014	88%

System Response Time = 120 seconds

Method 25A Calibration Data Sheet - Methane

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	22-Jul-12	End Date:	22-Jul-12
Start Time:	0:00	End Time:	23:59

THC Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/5090512		
Fuel Pressure -	7.0		
Combustion Air Pressure -	6.0		
Carrier Gas Pressure -	20.0		
Range -	0	-	100
Calibrant (choose one, x in box)	Propane		
	Methane		x
Cal Gas Molecular Weight:	16.039	g/mol	

Initial Calibration Summary	
Operator:	A. Stratton
Date:	18-Jul-12
Time:	17:00

Initial Calibration Data (Hi / Zero)		
Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	0.6
High Gas	88.2	89
Response Line	1.002	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)					
Calibration Gas	**Cylinder Conc.**	**Predicted Response**	**Actual Response**	**Calibration Error**	**Acceptance Criteria**
Low Gas	30.5	31	30	1.9	< 5% of cylinder concentration
Mid Gas	50.9	51	51	0.0	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	JP
Date:	23-Jul-12
Time:	8:09

Post Calibration Drift Data						
Calibration Gas	**Cylinder Conc.**	**Initial Test Response**	**Final Test Response**	**Calibration Drift**	**Acceptance Criteria**	
Post Cal 1 Zero	0	1	0	**0.6**	< 3% of the measurement range	
Post Cal 1 Upscale	51	51	44	**7.0**	< 3% of the measurement range	
					Test Avg. Conc.	**3**

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data						
Calibration Gas	**Required % of Span**	**Cylinder Conc.**	**Cylinder Composition**	**Cylinder Number**	**Expiration Date**	**Actual % of Span**
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	≤0.1%	0	UHP Air		N/A	0%
Low Gas	25-35	30.5	CH4/Air	CC80798	8/26/2014	31%
Mid Gas	45-55	50.9	CH4/Air	CC78508	8/26/2014	51%
High Gas	80-90	88.2	CH4/Air	CC9110	8/26/2014	88%

System Response Time = 120 seconds

Method 25A Calibration Data Sheet - Methane

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	23-Jul-12	End Date:	23-Jul-12
Start Time:	0:00	End Time:	23:59

THC Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/5090512		
Fuel Pressure -	7.0		
Combustion Air Pressure -	6.0		
Carrier Gas Pressure -	20.0		
Range -	0	-	100
Calibrant (choose one, x in box)	Propane		
	Methane		x
Cal Gas Molecular Weight:	16.039	g/mol	

Initial Calibration Summary	
Operator:	A. Stratton
Date:	18-Jul-12
Time:	17:00

Initial Calibration Data (Hi / Zero)		
Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	0.6
High Gas	88.2	89
Response Line	1.002	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)					
Calibration Gas	Cylinder Conc.	Predicted Response	Actual Response	Calibration Error	Acceptance Criteria
Low Gas	30.5	31	30	1.9	< 5% of cylinder concentration
Mid Gas	50.9	51	51	0.0	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	TG
Date:	24-Jul-12
Time:	8:02

Post Calibration Drift Data						
Calibration Gas	Cylinder Conc.	Initial Test Response	Final Test Response	Calibration Drift	Acceptance Criteria	
Post Cal 1 Zero	0	1	0	**0.6**	< 3% of the measurement range	
Post Cal 1 Upscale	51	51	43	**8.0**	< 3% of the measurement range	
					Test Avg. Conc.	**5**

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data						
Calibration Gas	Required % of Span	Cylinder Conc.	Cylinder Composition	Cylinder Number	Expiration Date	Actual % of Span
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	<0.1%	0	UHP Air		N/A	0%
Low Gas	25-35	30.5	CH4/Air	CC80798	8/26/2014	31%
Mid Gas	45-55	50.9	CH4/Air	CC78508	8/26/2014	51%
High Gas	80-90	88.2	CH4/Air	CC9110	8/26/2014	88%

System Response Time = 120 seconds

Method 25A Calibration Data Sheet - Methane

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	24-Jul-12	End Date:	24-Jul-12
Start Time:	0:00	End Time:	23:59

THC Analyzer Data		
Manufacturer -	VIG	
Model/Serial Number -	200/5090512	
Fuel Pressure -	7.0	
Combustion Air Pressure -	6.0	
Carrier Gas Pressure -	20.0	
Range -	0 - 100	
Calibrant (choose one, x in box)	Propane	
	Methane	x
Cal Gas Molecular Weight:	16.039	g/mol

Initial Calibration Summary	
Operator:	A. Stratton
Date:	18-Jul-12
Time:	17:00

Initial Calibration Data (Hi / Zero)		
Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	0.6
High Gas	88.2	89
Response Line	1.002	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)					
Calibration Gas	**Cylinder Conc.**	**Predicted Response**	**Actual Response**	**Calibration Error**	**Acceptance Criteria**
Low Gas	30.5	31	30	1.9	< 5% of cylinder concentration
Mid Gas	50.9	51	51	0.0	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	TG
Date:	25-Jul-12
Time:	12:52

Post Calibration Drift Data						
Calibration Gas	**Cylinder Conc.**	**Initial Test Response**	**Final Test Response**	**Calibration Drift**	**Acceptance Criteria**	
Post Cal 1 Zero	0	1	0	**0.6**	< 3% of the measurement range	
Post Cal 1 Upscale	51	51	41	**10.0**	< 3% of the measurement range	
					Test Avg. Conc.	**6**

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data						
Calibration Gas	**Required % of Span**	**Cylinder Conc.**	**Cylinder Composition**	**Cylinder Number**	**Expiration Date**	**Actual % of Span**
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	<0.1%	0	UHP Air		N/A	0%
Low Gas	25-35	30.5	CH4/Air	CC80798	8/26/2014	31%
Mid Gas	45-55	50.9	CH4/Air	CC78508	8/26/2014	51%
High Gas	80-90	88.2	CH4/Air	CC9110	8/26/2014	88%

System Response Time = 120 seconds

Method 25A Calibration Data Sheet - Methane

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	25-Jul-12	End Date:	25-Jul-12
Start Time:	0:00	End Time:	23:59

THC Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/5090512		
Fuel Pressure -	7.0		
Combustion Air Pressure -	6.0		
Carrier Gas Pressure -	20.0		
Range -	0	-	100
Calibrant (choose one, x in box)	Propane		
	Methane		x
Cal Gas Molecular Weight:	16.039	g/mol	

Initial Calibration Summary	
Operator:	A. Stratton
Date:	18-Jul-12
Time:	17:00

Initial Calibration Data (Hi / Zero)		
Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	0.6
High Gas	88.2	89
Response Line	1.002	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)					
Calibration Gas	**Cylinder Conc.**	**Predicted Response**	**Actual Response**	**Calibration Error**	**Acceptance Criteria**
Low Gas	30.5	31	30	1.9	< 5% of cylinder concentration
Mid Gas	50.9	51	51	0.0	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	TG
Date:	26-Jul-12
Time:	9:43

Post Calibration Drift Data						
Calibration Gas	**Cylinder Conc.**	**Initial Test Response**	**Final Test Response**	**Calibration Drift**	**Acceptance Criteria**	
Post Cal 1 Zero	0	1	0	**0.6**	< 3% of the measurement range	
Post Cal 1 Upscale	51	51	40	**11.0**	< 3% of the measurement range	
					Test Avg. Conc.	3

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data						
Calibration Gas	Required % of Span	Cylinder Conc.	Cylinder Composition	Cylinder Number	Expiration Date	Actual % of Span
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	<0.1%	0	UHP Air		N/A	0%
Low Gas	25-35	30.5	CH4/Air	CC80798	8/26/2014	31%
Mid Gas	45-55	50.9	CH4/Air	CC78508	8/26/2014	51%
High Gas	80-90	88.2	CH4/Air	CC9110	8/26/2014	88%

System Response Time = 120 seconds

Method 25A Calibration Data Sheet - Methane

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	26-Jul-12	End Date:	26-Jul-12
Start Time:	0:00	End Time:	14:50

THC Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/5090512		
Fuel Pressure -	7.0		
Combustion Air Pressure -	6.0		
Carrier Gas Pressure -	20.0		
Range -	0	-	100
Calibrant (choose one, x in box)	Propane		
	Methane		x
Cal Gas Molecular Weight:	16.039	g/mol	

Initial Calibration Summary	
Operator:	A. Stratton
Date:	18-Jul-12
Time:	17:00

Initial Calibration Data (Hi / Zero)		
Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	0.6
High Gas	88.2	89
Response Line	1.002	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)					
Calibration Gas	**Cylinder Conc.**	**Predicted Response**	**Actual Response**	**Calibration Error**	**Acceptance Criteria**
Low Gas	30.5	31	30	1.9	< 5% of cylinder concentration
Mid Gas	50.9	51	51	0.0	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	A. Stratton
Date:	27-Jul-12
Time:	16:40

Post Calibration Drift Data						
Calibration Gas	**Cylinder Conc.**	**Initial Test Response**	**Final Test Response**	**Calibration Drift**	**Acceptance Criteria**	
Post Cal 1 Zero	0	1	0	**0.6**	< 3% of the measurement range	
Post Cal 1 Upscale	51	51	51	**0.0**	< 3% of the measurement range	
					Test Avg. Conc.	**3**

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data						
Calibration Gas	**Required % of Span**	**Cylinder Conc.**	**Cylinder Composition**	**Cylinder Number**	**Expiration Date**	**Actual % of Span**
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	<0.1%	0	UHP Air		N/A	0%
Low Gas	25-35	30.5	CH4/Air	CC80798	8/26/2014	31%
Mid Gas	45-55	50.9	CH4/Air	CC78508	8/26/2014	51%
High Gas	80-90	88.2	CH4/Air	CC9110	8/26/2014	88%

System Response Time = 120 seconds

Method 25A Calibration Data Sheet - Methane

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	27-Jul-12	End Date:	27-Jul-12
Start Time:	15:00	End Time:	23:59

THC Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/5090512		
Fuel Pressure -	7.0		
Combustion Air Pressure -	6.0		
Carrier Gas Pressure -	20.0		
Range -	0	-	100
Calibrant (choose one, x in box)	Propane		
	Methane		x
Cal Gas Molecular Weight:	16.039	g/mol	

Initial Calibration Summary	
Operator:	A. Stratton
Date:	27-Jul-12
Time:	16:30

Initial Calibration Data (Hi / Zero)		
Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	0.3
High Gas	88.2	89
Response Line	1.006	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)					
Calibration Gas	**Cylinder Conc.**	**Predicted Response**	**Actual Response**	**Calibration Error**	**Acceptance Criteria**
Low Gas	30.5	31	31	1.1	< 5% of cylinder concentration
Mid Gas	50.9	51	52	1.6	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	A. Stratton
Date:	28-Jul-12
Time:	20:51

Post Calibration Drift Data						
Calibration Gas	**Cylinder Conc.**	**Initial Test Response**	**Final Test Response**	**Calibration Drift**	**Acceptance Criteria**	
Post Cal 1 Zero	0	0	4	**3.7**	< 3% of the measurement range	
Post Cal 1 Upscale	51	52	55	**3.0**	< 3% of the measurement range	
					Test Avg. Conc.	**11**

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data						
Calibration Gas	**Required % of Span**	**Cylinder Conc.**	**Cylinder Composition**	**Cylinder Number**	**Expiration Date**	**Actual % of Span**
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	<0.1%	0	UHP Air		N/A	0%
Low Gas	25-35	30.5	CH4/Air	CC80798	8/26/2014	31%
Mid Gas	45-55	50.9	CH4/Air	CC78508	8/26/2014	51%
High Gas	80-90	88.2	CH4/Air	CC9110	8/26/2014	88%

System Response Time = 120 seconds

Method 25A Calibration Data Sheet - Methane

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	28-Jul-12	End Date:	28-Jul-12
Start Time:	0:00	End Time:	20:30

THC Analyzer Data		
Manufacturer -	VIG	
Model/Serial Number -	200/5090512	
Fuel Pressure -	7.0	
Combustion Air Pressure -	6.0	
Carrier Gas Pressure -	20.0	
Range -	0 - 100	
Calibrant (choose one, x in box)	Propane	
	Methane	x
Cal Gas Molecular Weight:	16.039	g/mol

Initial Calibration Summary	
Operator:	A. Stratton
Date:	27-Jul-12
Time:	16:30

Initial Calibration Data (HI / Zero)		
Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	0.3
High Gas	88.2	89
Response Line	1.006	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)					
Calibration Gas	**Cylinder Conc.**	**Predicted Response**	**Actual Response**	**Calibration Error**	**Acceptance Criteria**
Low Gas	30.5	31	31	1.1	< 5% of cylinder concentration
Mid Gas	50.9	51	52	1.6	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	A. Stratton
Date:	28-Jul-12
Time:	20:51

Post Calibration Drift Data						
Calibration Gas	**Cylinder Conc.**	**Initial Test Response**	**Final Test Response**	**Calibration Drift**	**Acceptance Criteria**	
Post Cal 1 Zero	0	0	4	**3.7**	< 3% of the measurement range	
Post Cal 1 Upscale	51	52	55	**3.0**	< 3% of the measurement range	
					Test Avg. Conc.	**10**

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data						
Calibration Gas	**Required % of Span**	**Cylinder Conc.**	**Cylinder Composition**	**Cylinder Number**	**Expiration Date**	**Actual % of Span**
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	<0.1%	0	UHP Air		N/A	0%
Low Gas	25-35	30.5	CH4/Air	CC80798	8/26/2014	31%
Mid Gas	45-55	50.9	CH4/Air	CC78508	8/26/2014	51%
High Gas	80-90	88.2	CH4/Air	CC9110	8/26/2014	88%

System Response Time = 120 seconds

Method 25A Calibration Data Sheet - Methane

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	29-Jul-12	End Date:	29-Jul-12
Start Time:	10:30	End Time:	23:59

THC Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/5090512		
Fuel Pressure -	7.0		
Combustion Air Pressure -	6.0		
Carrier Gas Pressure -	20.0		
Range -	0	-	100
Calibrant (choose one, x in box)	Propane		
	Methane		x
Cal Gas Molecular Weight:	16.039	g/mol	

Initial Calibration Summary	
Operator:	A. Stratton
Date:	28-Jul-12
Time:	22:00

Initial Calibration Data (Hi / Zero)		
Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	0.0
High Gas	88.2	89
Response Line	1.009	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)					
Calibration Gas	Cylinder Conc.	Predicted Response	Actual Response	Calibration Error	Acceptance Criteria
Low Gas	30.5	31	29.8	3.2	< 5% of cylinder concentration
Mid Gas	50.9	51	50.4	1.9	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	BAS
Date:	30-Jul-12
Time:	13:50

Post Calibration Drift Data						
Calibration Gas	Cylinder Conc.	Initial Test Response	Final Test Response	Calibration Drift	Acceptance Criteria	
Post Cal 1 Zero	0	0	-0.1	**0.1**	< 3% of the measurement range	
Post Cal 1 Upscale	51	50	49	**1.4**	< 3% of the measurement range	
					Test Avg. Conc.	**28**

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data						
Calibration Gas	Required % of Span	Cylinder Conc.	Cylinder Composition	Cylinder Number	Expiration Date	Actual % of Span
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	<0.1%	0	UHP Air		N/A	0%
Low Gas	25-35	30.5	CH4/Air	CC80798	8/26/2014	31%
Mid Gas	45-55	50.9	CH4/Air	CC78508	8/26/2014	51%
High Gas	80-90	88.2	CH4/Air	CC9110	8/26/2014	88%

System Response Time = 120 seconds

Method 25A Calibration Data Sheet - Methane

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	30-Jul-12	End Date:	30-Jul-12
Start Time:	0:00	End Time:	23:59

THC Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/5090512		
Fuel Pressure -	7.0		
Combustion Air Pressure -	6.0		
Carrier Gas Pressure -	20.0		
Range -	0	-	100
Calibrant (choose one, x in box)	Propane		
	Methane		x
Cal Gas Molecular Weight:	16.039	g/mol	

Initial Calibration Summary	
Operator:	A. Stratton
Date:	28-Jul-12
Time:	22:00

Initial Calibration Data (Hi / Zero)		
Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	0.0
High Gas	88.2	89
Response Line	1.009	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)					
Calibration Gas	**Cylinder Conc.**	**Predicted Response**	**Actual Response**	**Calibration Error**	**Acceptance Criteria**
Low Gas	30.5	31	29.8	3.2	< 5% of cylinder concentration
Mid Gas	50.9	51	50.4	1.9	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	TJG
Date:	31-Jul-12
Time:	9:35

Post Calibration Drift Data						
Calibration Gas	**Cylinder Conc.**	**Initial Test Response**	**Final Test Response**	**Calibration Drift**	**Acceptance Criteria**	
Post Cal 1 Zero	0	0	0.0	**0.0**	< 3% of the measurement range	
Post Cal 1 Upscale	51	50	49.1	**1.3**	< 3% of the measurement range	
					Test Avg. Conc.	**13**

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data						
Calibration Gas	**Required % of Span**	**Cylinder Conc.**	**Cylinder Composition**	**Cylinder Number**	**Expiration Date**	**Actual % of Span**
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	<0.1%	0	UHP Air		N/A	0%
Low Gas	25-35	30.5	CH4/Air	CC80798	8/26/2014	31%
Mid Gas	45-55	50.9	CH4/Air	CC78508	8/26/2014	51%
High Gas	80-90	88.2	CH4/Air	CC9110	8/26/2014	88%

System Response Time = 120 seconds

Method 25A Calibration Data Sheet - Methane

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	31-Jul-12	End Date:	31-Jul-12
Start Time:	0:00	End Time:	23:59

THC Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/5090512		
Fuel Pressure -	7.0		
Combustion Air Pressure -	6.0		
Carrier Gas Pressure -	20.0		
Range -	0	-	100
Calibrant (choose one, x in box)	Propane		
	Methane		x
Cal Gas Molecular Weight:	16.039	g/mol	

Initial Calibration Summary	
Operator:	A. Stratton
Date:	28-Jul-12
Time:	22:00

Initial Calibration Data (Hi / Zero)		
Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	0.0
High Gas	88.2	89
Response Line	1.009	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)					
Calibration Gas	Cylinder Conc.	Predicted Response	Actual Response	Calibration Error	Acceptance Criteria
Low Gas	30.5	31	29.8	3.2	< 5% of cylinder concentration
Mid Gas	50.9	51	50.4	1.9	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	BAY
Date:	01-Aug-12
Time:	13:40

Post Calibration Drift Data						
Calibration Gas	Cylinder Conc.	Initial Test Response	Final Test Response	Calibration Drift	Acceptance Criteria	
Post Cal 1 Zero	0	0	-0.1	0.1	< 3% of the measurement range	
Post Cal 1 Upscale	51	50	48.1	2.3	< 3% of the measurement range	
					Test Avg. Conc.	40

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data						
Calibration Gas	Required % of Span	Cylinder Conc.	Cylinder Composition	Cylinder Number	Expiration Date	Actual % of Span
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	<0.1%	0	UHP Air		N/A	0%
Low Gas	25-35	30.5	CH4/Air	CC80798	8/26/2014	31%
Mid Gas	45-55	50.9	CH4/Air	CC78508	8/26/2014	51%
High Gas	80-90	88.2	CH4/Air	CC9110	8/26/2014	88%

System Response Time = **120 seconds**

Method 25A Calibration Data Sheet - Methane

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	1-Aug-12	End Date:	01-Aug-12
Start Time:	0:00	End Time:	23:59

THC Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/5090512		
Fuel Pressure -	7.0		
Combustion Air Pressure -	6.0		
Carrier Gas Pressure -	20.0		
Range -	0	-	100
Calibrant (choose one, x in box)	Propane		
	Methane		x
Cal Gas Molecular Weight:	16.039	g/mol	

Initial Calibration Summary	
Operator:	A. Stratton
Date:	28-Jul-12
Time:	22:00

Initial Calibration Data (Hi / Zero)		
Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	0.0
High Gas	88.2	89
Response Line	1.009	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)					
Calibration Gas	**Cylinder Conc.**	**Predicted Response**	**Actual Response**	**Calibration Error**	**Acceptance Criteria**
Low Gas	30.5	31	29.8	3.2	< 5% of cylinder concentration
Mid Gas	50.9	51	50.4	1.9	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	TJG
Date:	02-Aug-12
Time:	16:48

Post Calibration Drift Data						
Calibration Gas	**Cylinder Conc.**	**Initial Test Response**	**Final Test Response**	**Calibration Drift**	**Acceptance Criteria**	
Post Cal 1 Zero	0	0	-0.1	**0.1**	< 3% of the measurement range	
Post Cal 1 Upscale	51	50	48.9	**1.5**	< 3% of the measurement range	
					Test Avg. Conc.	**11**

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data						
Calibration Gas	**Required % of Span**	**Cylinder Conc.**	**Cylinder Composition**	**Cylinder Number**	**Expiration Date**	**Actual % of Span**
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	<0.1%	0	UHP Air		N/A	0%
Low Gas	25-35	30.5	CH4/Air	CC80798	8/26/2014	31%
Mid Gas	45-55	50.9	CH4/Air	CC78508	8/26/2014	51%
High Gas	80-90	88.2	CH4/Air	CC9110	8/26/2014	88%

System Response Time = 120 seconds

Method 25A Calibration Data Sheet - Methane

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	02-Aug-12	End Date:	02-Aug-12
Start Time:	0:00	End Time:	23:59

THC Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/5090512		
Fuel Pressure -	7.0		
Combustion Air Pressure -	6.0		
Carrier Gas Pressure -	20.0		
Range -	0	-	100
Calibrant (choose one, x in box)	Propane		
	Methane		x
Cal Gas Molecular Weight:	16.039	g/mol	

Initial Calibration Summary	
Operator:	A. Stratton
Date:	28-Jul-12
Time:	22:00

Initial Calibration Data (Hi / Zero)		
Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	0.0
High Gas	88.2	89
Response Line	1.009	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)					
Calibration Gas	Cylinder Conc.	Predicted Response	Actual Response	Calibration Error	Acceptance Criteria
Low Gas	30.5	31	29.8	3.2	< 5% of cylinder concentration
Mid Gas	50.9	51	50.4	1.9	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	TJG
Date:	03-Aug-12
Time:	19:04

Post Calibration Drift Data						
Calibration Gas	Cylinder Conc.	Initial Test Response	Final Test Response	Calibration Drift	Acceptance Criteria	
Post Cal 1 Zero	0	0	-0.02	**0.0**	< 3% of the measurement range	
Post Cal 1 Upscale	51	50	54.1	**3.7**	< 3% of the measurement range	
					Test Avg. Conc.	**11**

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data						
Calibration Gas	Required % of Span	Cylinder Conc.	Cylinder Composition	Cylinder Number	Expiration Date	Actual % of Span
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	<0.1%	0	UHP Air		N/A	0%
Low Gas	25-35	30.5	CH4/Air	CC80798	8/26/2014	31%
Mid Gas	45-55	50.9	CH4/Air	CC78508	8/26/2014	51%
High Gas	80-90	88.2	CH4/Air	CC9110	8/26/2014	88%

System Response Time = 120 seconds

Method 25A Calibration Data Sheet - Methane

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	03-Aug-12	End Date:	03-Aug-12
Start Time:	0:00	End Time:	23:59

THC Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/5090512		
Fuel Pressure -	7.0		
Combustion Air Pressure -	6.0		
Carrier Gas Pressure -	20.0		
Range -	0	-	100
Calibrant (choose one, x in box)	Propane		
	Methane		x
Cal Gas Molecular Weight:	16.039	g/mol	

Initial Calibration Summary	
Operator:	A. Stratton
Date:	28-Jul-12
Time:	22:00

Initial Calibration Data (Hi / Zero)		
Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	0.0
High Gas	88.2	89
Response Line	1.009	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)					
Calibration Gas	**Cylinder Conc.**	**Predicted Response**	**Actual Response**	**Calibration Error**	**Acceptance Criteria**
Low Gas	30.5	31	29.8	3.2	< 5% of cylinder concentration
Mid Gas	50.9	51	50.4	1.9	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	TJG
Date:	04-Aug-12
Time:	9:15

Post Calibration Drift Data						
Calibration Gas	**Cylinder Conc.**	**Initial Test Response**	**Final Test Response**	**Calibration Drift**	**Acceptance Criteria**	
Post Cal 1 Zero	0	0	-0.02	**0.0**	< 3% of the measurement range	
Post Cal 1 Upscale	51	50	68.9	**18.5**	< 3% of the measurement range	
					Test Avg. Conc.	**13**

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data						
Calibration Gas	**Required % of Span**	**Cylinder Conc.**	**Cylinder Composition**	**Cylinder Number**	**Expiration Date**	**Actual % of Span**
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	<0.1%	0	UHP Air		N/A	0%
Low Gas	25-35	30.5	CH4/Air	CC80798	8/26/2014	31%
Mid Gas	45-55	50.9	CH4/Air	CC78508	8/26/2014	51%
High Gas	80-90	88.2	CH4/Air	CC9110	8/26/2014	88%

System Response Time = 120 seconds

Method 25A Calibration Data Sheet - Methane

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	04-Aug-12	End Date:	04-Aug-12
Start Time:	0:00	End Time:	23:59

THC Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/5090512		
Fuel Pressure -	7.0		
Combustion Air Pressure -	6.0		
Carrier Gas Pressure -	20.0		
Range -	0	-	100
Calibrant (choose one, x in box)	Propane		
	Methane		x
Cal Gas Molecular Weight:	16.039	g/mol	

Initial Calibration Summary	
Operator:	A. Stratton
Date:	28-Jul-12
Time:	22:00

Initial Calibration Data (Hi / Zero)		
Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	0.0
High Gas	88.2	89
Response Line	1.009	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)					
Calibration Gas	Cylinder Conc.	Predicted Response	Actual Response	Calibration Error	Acceptance Criteria
Low Gas	30.5	31	29.8	3.2	< 5% of cylinder concentration
Mid Gas	50.9	51	50.4	1.9	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	TJG
Date:	06-Aug-12
Time:	11:15

Post Calibration Drift Data						
Calibration Gas	Cylinder Conc.	Initial Test Response	Final Test Response	Calibration Drift	Acceptance Criteria	
Post Cal 1 Zero	0	0	-3.00	**3.0**	< 3% of the measurement range	
Post Cal 1 Upscale	51	50	102.2	**51.8**	< 3% of the measurement range	
					Test Avg. Conc.	**10**

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data						
Calibration Gas	Required % of Span	Cylinder Conc.	Cylinder Composition	Cylinder Number	Expiration Date	Actual % of Span
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	<0.1%	0	UHP Air		N/A	0%
Low Gas	25-35	30.5	CH4/Air	CC80798	8/26/2014	31%
Mid Gas	45-55	50.9	CH4/Air	CC78508	8/26/2014	51%
High Gas	80-90	88.2	CH4/Air	CC9110	8/26/2014	88%

System Response Time = 120 seconds

Method 25A Calibration Data Sheet - Methane

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	05-Aug-12	End Date:	05-Aug-12
Start Time:	0:00	End Time:	23:59

THC Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/5090512		
Fuel Pressure -	7.0		
Combustion Air Pressure -	6.0		
Carrier Gas Pressure -	20.0		
Range -	0	-	100
Calibrant (choose one, x in box)	Propane		
	Methane		x
Cal Gas Molecular Weight:	16.039	g/mol	

Initial Calibration Summary	
Operator:	A. Stratton
Date:	28-Jul-12
Time:	22:00

Initial Calibration Data (Hi / Zero)		
Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	0.0
High Gas	88.2	89
Response Line	1.009	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)					
Calibration Gas	Cylinder Conc.	Predicted Response	Actual Response	Calibration Error	Acceptance Criteria
Low Gas	30.5	31	29.8	3.2	< 5% of cylinder concentration
Mid Gas	50.9	51	50.4	1.9	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	TJG
Date:	06-Aug-12
Time:	11:15

Post Calibration Drift Data						
Calibration Gas	Cylinder Conc.	Initial Test Response	Final Test Response	Calibration Drift	Acceptance Criteria	
Post Cal 1 Zero	0	0	-3.00	**3.0**	< 3% of the measurement range	
Post Cal 1 Upscale	51	50	102.2	**51.8**	< 3% of the measurement range	
					Test Avg. Conc.	**10**

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data						
Calibration Gas	Required % of Span	Cylinder Conc.	Cylinder Composition	Cylinder Number	Expiration Date	Actual % of Span
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	<0.1%	0	UHP Air		N/A	0%
Low Gas	26-35	30.5	CH4/Air	CC80798	8/26/2014	31%
Mid Gas	45-55	50.9	CH4/Air	CC78508	8/26/2014	51%
High Gas	80-90	88.2	CH4/Air	CC9110	8/26/2014	88%

System Response Time = 120 seconds

Method 25A Calibration Data Sheet - Methane

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	06-Aug-12	End Date:	06-Aug-12
Start Time:	0:00	End Time:	23:59

THC Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/5090512		
Fuel Pressure -	7.0		
Combustion Air Pressure -	6.0		
Carrier Gas Pressure -	20.0		
Range -	0	-	100
Calibrant (choose one, x in box)	Propane		
	Methane		x
Cal Gas Molecular Weight:	16.039	g/mol	

Initial Calibration Summary	
Operator:	A. Stratton
Date:	28-Jul-12
Time:	22:00

Initial Calibration Data (Hi / Zero)		
Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	0.0
High Gas	88.2	89
Response Line	1.009	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)					
Calibration Gas	Cylinder Conc.	Predicted Response	Actual Response	Calibration Error	Acceptance Criteria
Low Gas	30.5	31	29.8	3.2	< 5% of cylinder concentration
Mid Gas	50.9	51	50.4	1.9	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	TJG
Date:	07-Aug-12
Time:	9:37

Post Calibration Drift Data						
Calibration Gas	Cylinder Conc.	Initial Test Response	Final Test Response	Calibration Drift	Acceptance Criteria	
Post Cal 1 Zero	0	0	-0.02	**0.0**	< 3% of the measurement range	
Post Cal 1 Upscale	51	50	90.3	**39.9**	< 3% of the measurement range	
					Test Avg. Conc.	**10**

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data						
Calibration Gas	Required % of Span	Cylinder Conc.	Cylinder Composition	Cylinder Number	Expiration Date	Actual % of Span
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	<0.1%	0	UHP Air		N/A	0%
Low Gas	25-35	30.5	CH4/Air	CC80798	8/26/2014	31%
Mid Gas	45-55	50.9	CH4/Air	CC78508	8/26/2014	51%
High Gas	80-90	88.2	CH4/Air	CC9110	8/26/2014	88%

System Response Time = 120 seconds

Method 25A Calibration Data Sheet - Methane

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	07-Aug-12	End Date:	07-Aug-12
Start Time:	0:00	End Time:	23:59

THC Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/5090512		
Fuel Pressure -	7.0		
Combustion Air Pressure -	6.0		
Carrier Gas Pressure -	20.0		
Range -	0	-	100
Calibrant (choose one, x in box)	Propane		
	Methane		x
Cal Gas Molecular Weight:	16.039	g/mol	

Initial Calibration Summary	
Operator:	A. Stratton
Date:	28-Jul-12
Time:	22:00

Initial Calibration Data (Hi / Zero)		
Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	0.0
High Gas	88.2	89
Response Line	1.009	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)					
Calibration Gas	**Cylinder Conc.**	**Predicted Response**	**Actual Response**	**Calibration Error**	**Acceptance Criteria**
Low Gas	30.5	31	29.8	3.2	< 5% of cylinder concentration
Mid Gas	50.9	51	50.4	1.9	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	TJG
Date:	08-Aug-12
Time:	9:35

Post Calibration Drift Data						
Calibration Gas	**Cylinder Conc.**	**Initial Test Response**	**Final Test Response**	**Calibration Drift**	**Acceptance Criteria**	
Post Cal 1 Zero	0	0	1.00	**1.0**	< 3% of the measurement range	
Post Cal 1 Upscale	51	50	49.5	**0.9**	< 3% of the measurement range	
					Test Avg. Conc.	**10**

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data						
Calibration Gas	**Required % of Span**	**Cylinder Conc.**	**Cylinder Composition**	**Cylinder Number**	**Expiration Date**	**Actual % of Span**
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	<0.1%	0	UHP Air		N/A	0%
Low Gas	25-35	30.5	CH4/Air	CC80798	8/26/2014	31%
Mid Gas	45-55	50.9	CH4/Air	CC78508	8/26/2014	51%
High Gas	80-90	88.2	CH4/Air	CC9110	8/26/2014	88%

System Response Time = **120 seconds**

Method 25A Calibration Data Sheet - Methane

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	08-Aug-12	End Date:	08-Aug-12
Start Time:	0:00	End Time:	23:59

THC Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/5090512		
Fuel Pressure -	7.0		
Combustion Air Pressure -	6.0		
Carrier Gas Pressure -	20.0		
Range -	0	-	100
Calibrant (choose one, x in box)	Propane		
	Methane		x
Cal Gas Molecular Weight:	16.039	g/mol	

Initial Calibration Summary	
Operator:	A. Stratton
Date:	28-Jul-12
Time:	22:00

Initial Calibration Data (Hi / Zero)		
Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	0.0
High Gas	88.2	89
Response Line	1.009	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)					
Calibration Gas	**Cylinder Conc.**	**Predicted Response**	**Actual Response**	**Calibration Error**	**Acceptance Criteria**
Low Gas	30.5	31	29.8	3.2	< 5% of cylinder concentration
Mid Gas	50.9	51	50.4	1.9	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	TJG
Date:	09-Aug-12
Time:	9:26

Post Calibration Drift Data						
Calibration Gas	**Cylinder Conc.**	**Initial Test Response**	**Final Test Response**	**Calibration Drift**	**Acceptance Criteria**	
Post Cal 1 Zero	0	0	-0.10	**0.1**	< 3% of the measurement range	
Post Cal 1 Upscale	51	50	42.4	**8.0**	< 3% of the measurement range	
					Test Avg. Conc.	**16**

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data						
Calibration Gas	**Required % of Span**	**Cylinder Conc.**	**Cylinder Composition**	**Cylinder Number**	**Expiration Date**	**Actual % of Span**
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	<0.1%	0	UHP Air		N/A	0%
Low Gas	25-35	30.5	CH4/Air	CC80798	8/26/2014	31%
Mid Gas	45-55	50.9	CH4/Air	CC78508	8/26/2014	51%
High Gas	80-90	88.2	CH4/Air	CC9110	8/26/2014	88%

System Response Time = 120 seconds

Method 25A Calibration Data Sheet - Methane

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	09-Aug-12	End Date:	09-Aug-12
Start Time:	0:00	End Time:	23:59

THC Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/5090512		
Fuel Pressure -	7.0		
Combustion Air Pressure -	6.0		
Carrier Gas Pressure -	20.0		
Range -	0	-	100
Calibrant (choose one, x in box)	Propane		
	Methane		x
Cal Gas Molecular Weight:	16.039		g/mol

Initial Calibration Summary	
Operator:	A. Stratton
Date:	28-Jul-12
Time:	22:00

Initial Calibration Data (Hi / Zero)		
Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	0.0
High Gas	88.2	89
Response Line	1.009	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)					
Calibration Gas	Cylinder Conc.	Predicted Response	Actual Response	Calibration Error	Acceptance Criteria
Low Gas	30.5	31	29.8	3.2	< 5% of cylinder concentration
Mid Gas	50.9	51	50.4	1.9	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	TJG
Date:	10-Aug-12
Time:	9:30

Post Calibration Drift Data						
Calibration Gas	Cylinder Conc.	Initial Test Response	Final Test Response	Calibration Drift	Acceptance Criteria	
Post Cal 1 Zero	0	0	-0.10	**0.1**	< 3% of the measurement range	
Post Cal 1 Upscale	51	50	35.5	**14.9**	< 3% of the measurement range	
					Test Avg. Conc.	**6**

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data						
Calibration Gas	Required % of Span	Cylinder Conc.	Cylinder Composition	Cylinder Number	Expiration Date	Actual % of Span
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	<0.1%	0	UHP Air		N/A	0%
Low Gas	25-35	30.5	CH4/Air	CC80798	8/26/2014	31%
Mid Gas	45-55	50.9	CH4/Air	CC78508	8/26/2014	51%
High Gas	80-90	88.2	CH4/Air	CC9110	8/26/2014	88%

System Response Time = 120 seconds

Method 25A Calibration Data Sheet - Methane

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	10-Aug-12	End Date:	10-Aug-12
Start Time:	0:00	End Time:	23:59

THC Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/5090512		
Fuel Pressure -	7.0		
Combustion Air Pressure -	6.0		
Carrier Gas Pressure -	20.0		
Range -	0	-	100
Calibrant (choose one, x in box)	Propane		
	Methane		x
Cal Gas Molecular Weight:	**16.039**		**g/mol**

Initial Calibration Summary	
Operator:	A. Stratton
Date:	28-Jul-12
Time:	22:00

Initial Calibration Data (Hi / Zero)		
Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	0.0
High Gas	88.2	89
Response Line	1.009	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)					
Calibration Gas	**Cylinder Conc.**	**Predicted Response**	**Actual Response**	**Calibration Error**	**Acceptance Criteria**
Low Gas	30.5	31	29.8	3.2	< 5% of cylinder concentration
Mid Gas	50.9	51	50.4	1.9	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	BAY
Date:	13-Aug-12
Time:	14:40

Post Calibration Drift Data						
Calibration Gas	**Cylinder Conc.**	**Initial Test Response**	**Final Test Response**	**Calibration Drift**	**Acceptance Criteria**	
Post Cal 1 Zero	0	0	-0.10	**0.1**	< 3% of the measurement range	
Post Cal 1 Upscale	51	50	43.3	**7.1**	< 3% of the measurement range	
					Test Avg. Conc.	7

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data						
Calibration Gas	**Required % of Span**	**Cylinder Conc.**	**Cylinder Composition**	**Cylinder Number**	**Expiration Date**	**Actual % of Span**
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	<0.1%	0	UHP Air		N/A	0%
Low Gas	25-35	30.5	CH4/Air	CC80798	8/26/2014	31%
Mid Gas	45-55	50.9	CH4/Air	CC78508	8/26/2014	51%
High Gas	80-90	88.2	CH4/Air	CC9110	8/26/2014	88%

System Response Time = 120 seconds

Method 25A Calibration Data Sheet - Methane

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	11-Aug-12	End Date:	11-Aug-12
Start Time:	0:00	End Time:	23:59

THC Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/5090512		
Fuel Pressure -	7.0		
Combustion Air Pressure -	6.0		
Carrier Gas Pressure -	20.0		
Range -	0	-	100
Calibrant (choose one, x in box)	Propane		
	Methane		x
Cal Gas Molecular Weight:	16.039	g/mol	

Initial Calibration Summary	
Operator:	A. Stratton
Date:	28-Jul-12
Time:	22:00

Initial Calibration Data (Hi / Zero)		
Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	0.0
High Gas	88.2	89
Response Line	1.009	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)					
Calibration Gas	**Cylinder Conc.**	**Predicted Response**	**Actual Response**	**Calibration Error**	**Acceptance Criteria**
Low Gas	30.5	31	29.8	3.2	< 5% of cylinder concentration
Mid Gas	50.9	51	50.4	1.9	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	BAY
Date:	13-Aug-12
Time:	14:40

Post Calibration Drift Data						
Calibration Gas	**Cylinder Conc.**	**Initial Test Response**	**Final Test Response**	**Calibration Drift**	**Acceptance Criteria**	
Post Cal 1 Zero	0	0	-0.10	**0.1**	< 3% of the measurement range	
Post Cal 1 Upscale	51	50	43.3	**7.1**	< 3% of the measurement range	
					Test Avg. Conc.	**9**

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data						
Calibration Gas	**Required % of Span**	**Cylinder Conc.**	**Cylinder Composition**	**Cylinder Number**	**Expiration Date**	**Actual % of Span**
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	<0.1%	0	UHP Air		N/A	0%
Low Gas	25-35	30.5	CH4/Air	CC80798	8/26/2014	31%
Mid Gas	45-55	50.9	CH4/Air	CC78508	8/26/2014	51%
High Gas	80-90	88.2	CH4/Air	CC9110	8/26/2014	88%

System Response Time = 120 seconds

Method 25A Calibration Data Sheet - Methane

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	12-Aug-12	End Date:	12-Aug-12
Start Time:	0:00	End Time:	23:59

THC Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/5090512		
Fuel Pressure -	7.0		
Combustion Air Pressure -	6.0		
Carrier Gas Pressure -	20.0		
Range -	0	-	100
Calibrant (choose one, x in box)	Propane		
	Methane		x
Cal Gas Molecular Weight:	16.039	g/mol	

Initial Calibration Summary	
Operator:	A. Stratton
Date:	28-Jul-12
Time:	22:00

Initial Calibration Data (Hi / Zero)		
Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	0.0
High Gas	88.2	89
Response Line	1.009	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)					
Calibration Gas	**Cylinder Conc.**	**Predicted Response**	**Actual Response**	**Calibration Error**	**Acceptance Criteria**
Low Gas	30.5	31	29.8	3.2	< 5% of cylinder concentration
Mid Gas	50.9	51	50.4	1.9	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	BAY
Date:	13-Aug-12
Time:	14:40

Post Calibration Drift Data						
Calibration Gas	**Cylinder Conc.**	**Initial Test Response**	**Final Test Response**	**Calibration Drift**	**Acceptance Criteria**	
Post Cal 1 Zero	0	0	-0.10	**0.1**	< 3% of the measurement range	
Post Cal 1 Upscale	51	50	43.3	**7.1**	< 3% of the measurement range	
					Test Avg. Conc.	**6**

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data						
Calibration Gas	**Required % of Span**	**Cylinder Conc.**	**Cylinder Composition**	**Cylinder Number**	**Expiration Date**	**Actual % of Span**
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	<0.1%	0	UHP Air		N/A	0%
Low Gas	25-35	30.5	CH4/Air	CC80798	8/26/2014	31%
Mid Gas	45-55	50.9	CH4/Air	CC78508	8/26/2014	51%
High Gas	80-90	88.2	CH4/Air	CC9110	8/26/2014	88%

System Response Time = 120 seconds

Method 25A Calibration Data Sheet - Methane

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	13-Aug-12	End Date:	13-Aug-12
Start Time:	0:00	End Time:	23:59

THC Analyzer Data		
Manufacturer -	VIG	
Model/Serial Number -	200/5090512	
Fuel Pressure -	7.0	
Combustion Air Pressure -	6.0	
Carrier Gas Pressure -	20.0	
Range -	0 - 100	
Calibrant (choose one, x in box)	Propane	
	Methane	x
Cal Gas Molecular Weight:	16.039	g/mol

Initial Calibration Summary	
Operator:	A. Stratton
Date:	28-Jul-12
Time:	22:00

Initial Calibration Data (Hi / Zero)		
Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	0.0
High Gas	88.2	89
Response Line	1.009	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)					
Calibration Gas	**Cylinder Conc.**	**Predicted Response**	**Actual Response**	**Calibration Error**	**Acceptance Criteria**
Low Gas	30.5	31	29.8	3.2	< 5% of cylinder concentration
Mid Gas	50.9	51	50.4	1.9	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	BAY
Date:	14-Aug-12
Time:	15:07

Post Calibration Drift Data						
Calibration Gas	**Cylinder Conc.**	**Initial Test Response**	**Final Test Response**	**Calibration Drift**	**Acceptance Criteria**	
Post Cal 1 Zero	0	0	-0.10	**0.1**	< 3% of the measurement range	
Post Cal 1 Upscale	51	50	41.3	**9.1**	< 3% of the measurement range	
					Test Avg. Conc.	**5**

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data						
Calibration Gas	**Required % of Span**	**Cylinder Conc.**	**Cylinder Composition**	**Cylinder Number**	**Expiration Date**	**Actual % of Span**
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	<0.1%	0	UHP Air		N/A	0%
Low Gas	25-35	30.5	CH4/Air	CC80798	8/26/2014	31%
Mid Gas	45-65	50.9	CH4/Air	CC78508	8/26/2014	51%
High Gas	80-90	88.2	CH4/Air	CC9110	8/26/2014	88%

System Response Time = 120 seconds

Method 25A Calibration Data Sheet - Methane

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	14-Aug-12	End Date:	14-Aug-12
Start Time:	0:00	End Time:	23:59

THC Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/5090512		
Fuel Pressure -	7.0		
Combustion Air Pressure -	6.0		
Carrier Gas Pressure -	20.0		
Range -	0	-	100
Calibrant (choose one, x in box)	Propane		
	Methane		x
Cal Gas Molecular Weight:	16.039	g/mol	

Initial Calibration Summary	
Operator:	A. Stratton
Date:	28-Jul-12
Time:	22:00

Initial Calibration Data (Hi / Zero)		
Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	0.0
High Gas	88.2	89
Response Line	1.009	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)					
Calibration Gas	**Cylinder Conc.**	**Predicted Response**	**Actual Response**	**Calibration Error**	**Acceptance Criteria**
Low Gas	30.5	31	29.8	3.2	< 5% of cylinder concentration
Mid Gas	50.9	51	50.4	1.9	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	JRP
Date:	15-Aug-12
Time:	12:54

Post Calibration Drift Data						
Calibration Gas	**Cylinder Conc.**	**Initial Test Response**	**Final Test Response**	**Calibration Drift**	**Acceptance Criteria**	
Post Cal 1 Zero	0	0	-0.10	**0.1**	< 3% of the measurement range	
Post Cal 1 Upscale	51	50	39.7	**10.7**	< 3% of the measurement range	
					Test Avg. Conc.	**7**

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data						
Calibration Gas	**Required % of Span**	**Cylinder Conc.**	**Cylinder Composition**	**Cylinder Number**	**Expiration Date**	**Actual % of Span**
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	<0.1%	0	UHP Air		N/A	0%
Low Gas	25-35	30.5	CH4/Air	CC80798	8/26/2014	31%
Mid Gas	45-55	50.9	CH4/Air	CC78508	8/26/2014	51%
High Gas	80-90	88.2	CH4/Air	CC9110	8/26/2014	88%

System Response Time = **120 seconds**

Method 25A Calibration Data Sheet - Methane

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	15-Aug-12	End Date:	15-Aug-12
Start Time:	0:00	End Time:	23:59

THC Analyzer Data		
Manufacturer -	VIG	
Model/Serial Number -	200/5090512	
Fuel Pressure -	7.0	
Combustion Air Pressure -	6.0	
Carrier Gas Pressure -	20.0	
Range -	0 - 100	
Calibrant (choose one, x in box)	Propane	
	Methane	x
Cal Gas Molecular Weight:	16.039	g/mol

Initial Calibration Summary	
Operator:	A. Stratton
Date:	28-Jul-12
Time:	22:00

Initial Calibration Data (Hi / Zero)		
Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	0.0
High Gas	88.2	89
Response Line	1.009	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)					
Calibration Gas	Cylinder Conc.	Predicted Response	Actual Response	Calibration Error	Acceptance Criteria
Low Gas	30.5	31	29.8	3.2	< 5% of cylinder concentration
Mid Gas	50.9	51	50.4	1.9	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	A. Stratton
Date:	16-Aug-12
Time:	17:00

Post Calibration Drift Data						
Calibration Gas	Cylinder Conc.	Initial Test Response	Final Test Response	Calibration Drift	Acceptance Criteria	
Post Cal 1 Zero	0	0	-10.2	**10.2**	< 3% of the measurement range	
Post Cal 1 Upscale	51	50	39.2	**11.2**	< 3% of the measurement range	
					Test Avg. Conc.	**5**

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data						
Calibration Gas	Required % of Span	Cylinder Conc.	Cylinder Composition	Cylinder Number	Expiration Date	Actual % of Span
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	<0.1%	0	UHP Air		N/A	0%
Low Gas	25-35	30.5	CH4/Air	CC80798	8/26/2014	31%
Mid Gas	45-55	50.9	CH4/Air	CC78508	8/26/2014	51%
High Gas	80-90	88.2	CH4/Air	CC9110	8/26/2014	88%

System Response Time = 120 seconds

Method 25A Calibration Data Sheet - Methane

Source Summary			
Facility:	Global South Portland		
Source/Location:	Asphalt Tank #9		
Start Date	16-Aug-12	End Date:	16-Aug-12
Start Time:	0:00	End Time:	16:52

THC Analyzer Data		
Manufacturer -	VIG	
Model/Serial Number -	200/5090512	
Fuel Pressure -	7.0	
Combustion Air Pressure -	6.0	
Carrier Gas Pressure -	20.0	
Range -	0 - 100	
Calibrant (choose one, x in box)	Propane	
	Methane	x
Cal Gas Molecular Weight:	16.039	g/mol

Initial Calibration Summary	
Operator:	A. Stratton
Date:	28-Jul-12
Time:	22:00

Initial Calibration Data (Hi / Zero)		
Calibration Gas	Cylinder Conc.	Actual Response
Zero Gas	0.0	0.0
High Gas	88.2	89
Response Line	1.009	

Where: Response Line = (Ha-Za)/(Hc-Zc)

Initial Calibration Data (Mid / Low)					
Calibration Gas	**Cylinder Conc.**	**Predicted Response**	**Actual Response**	**Calibration Error**	**Acceptance Criteria**
Low Gas	30.5	31	29.8	3.2	< 5% of cylinder concentration
Mid Gas	50.9	51	50.4	1.9	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Post Calibration Summary	
Operator:	A. Stratton
Date:	16-Aug-12
Time:	17:00

Post Calibration Drift Data						
Calibration Gas	**Cylinder Conc.**	**Initial Test Response**	**Final Test Response**	**Calibration Drift**	**Acceptance Criteria**	
Post Cal 1 Zero	0	0	-10.2	**10.2**	< 3% of the measurement range	
Post Cal 1 Upscale	51	50	39.2	**11.2**	< 3% of the measurement range	
					Test Avg. Conc.	**5**

Where:

Calibration Drift = (Final Test Response - Initial Test Response) * 100

Gas Cylinder Data						
Calibration Gas	**Required % of Span**	**Cylinder Conc.**	**Cylinder Composition**	**Cylinder Number**	**Expiration Date**	**Actual % of Span**
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	<0.1%	0	UHP Air		N/A	0%
Low Gas	25-35	30.5	CH4/Air	CC80798	8/26/2014	31%
Mid Gas	45-55	50.9	CH4/Air	CC78508	8/26/2014	51%
High Gas	80-90	88.2	CH4/Air	CC9110	8/26/2014	88%

System Response Time = 120 seconds

Method 25A Data Sheet

Client	Global
Facility	S. Portland, ME
Source	Tank #9 Asphalt
Test Location	
Date	18 July 2012

THC Analyzer Data

Manufacturer	VIG
Model/Serial Number	Model 200 / 5090512
Fuel Pressure	7.0
Combustion Air Pressure	6.0
Sample Pressure	2.0
Measurement Range	0—10000
Response Time	120 sec

Test Data

Test Number	1	2	3
Start Time			
Stop Time			
Testers			

Calibration Error Test Data

Calibration Gas	Cylinder Concentration	Actual Response
Zero Gas	0	~~120~~ 108
High Gas	8367	8370
Response Line		

Response Line = (Ha/Za)/(Hc-Zc)

Calibration Gas	Cylinder Concentration	Predicted Response	Actual Response	Calibration Error	Criteria Acceptance
Low Gas	3140		3150		< 5% of cylinder concentration
Mid Gas	5052		5040		< 5% of cylinder concentration

Predicted Response = (Cylinder Concentration) x (Response Line)
Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Calibration Drift Test Data

Calibration Gas	Cylinder Concentration	CE Test Response	Actual Response	Calibration Drift	Criteria Acceptance	
Test Run 1 Zero					< 3% of the measurement range	
Test Run 1 Mid					< 3% of the measurement range	
					Test Run 1 Avg. Conc.	
Test Run 2 Zero					< 3% of the measurement range	
Test Run 2 Mid					< 3% of the measurement range	
					Test Run 2 Avg. Conc.	
Test Run 3 Zero					< 3% of the measurement range	
Test Run 3 Mid					< 3% of the measurement range	
Calibration Drift = (Actual Response - CE Test Response) * 100 / Measurement Range					Test Run 3 Avg. Conc.	

Gas Cylinder Data

Calibration Gas	Required % of Span	Cylinder Concentration	Cylinder Composition	Cylinder Number	Expiration Date	Actual % of Span
Fuel			UHP H2			
Combustion Air			UHP Air			
Zero Gas			UHP Air			
Low Gas	25 - 35					
Mid Gas	45 - 55					
High Gas	80 - 90					

Method 18 Data Sheet (Methane)

Client	Global
Facility	South Portland, ME
Source	Tank #9 Asphalt
Test Location	
Date	18 July 2012

THC Analyzer Data

Manufacturer	VIG
Model/Serial Number	Model 200/5090512
Fuel Pressure	7.0
Combustion Air Pressure	6.0
~~Sample Pressure~~	Carrier Gas 30 PSI
Measurement Range	0 – 100
Response Time	

Test Data

Test Number	1	2	3
Start Time			
Stop Time			
Testers			

Calibration Error Test Data

Calibration Gas	Cylinder Concentration	Actual Response
Zero Gas	0	0.6
High Gas	68.2	89
Response Line		

Response Line = (Ha/Za)/(Hc-Zc)

Calibration Gas	Cylinder Concentration	Predicted Response	Actual Response	Calibration Error	Criteria Acceptance
Low Gas	30.5		30		< 5% of cylinder concentration
Mid Gas	50.9		51		< 5% of cylinder concentration

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Calibration Drift Test Data

Calibration Gas	Cylinder Concentration	CE Test Response	Actual Response	Calibration Drift	Criteria Acceptance	
Test Run 1 Zero					< 3% of the measurement range	
Test Run 1 Mid					< 3% of the measurement range	
					Test Run 1 Avg. Conc.	
Test Run 2 Zero					< 3% of the measurement range	
Test Run 2 Mid					< 3% of the measurement range	
					Test Run 2 Avg. Conc.	
Test Run 3 Zero					< 3% of the measurement range	
Test Run 3 Mid					< 3% of the measurement range	
Calibration Drift = (Actual Response - CE Test Response) * 100 / Measurement Range					Test Run 3 Avg. Conc.	

Gas Cylinder Data

Calibration Gas	Required % of Span	Cylinder Concentration	Cylinder Composition	Cylinder Number	Expiration Date	Actual % of Span
Fuel			UHP H2			
Combustion Air			UHP Air			
Zero Gas			UHP Air			
Low Gas	25 - 35					
Mid Gas	45 - 55					
High Gas	80 - 90					

Method 25A Data Sheet

Client: Global Companies
Facility: South Portland, ME
Source: Tank #9 Asphalt
Test Location: TTE Exhaust
Date: 28 July 2012 — Vessel Discharge
Final Calibration 22:15

THC Analyzer Data

Manufacturer	VIG
Model/Serial Number	200 / 5090512
Fuel Pressure	7
Combustion Air Pressure	6
Sample Pressure	2.0
Measurement Range	0-1000
Response Time	120 sec

Test Data

Test Number	1	2	3
Start Time			
Stop Time			
Testers			

Calibration Error Test Data

Calibration Gas	Cylinder Concentration	Actual Response
* Zero Gas	0	130 → 105
High Gas	903.9	904 → 594
Response Line		

Response Line = (Ha/Za)/(Hc-Zc)

Calibration Gas	Cylinder Concentration	Predicted Response	Actual Response	Calibration Error	Criteria Acceptance
Low Gas	297.3		365	33.2	< 5% of cylinder concentration
Mid Gas	501.7		~~550~~ 540	18.0	< 5% of cylinder concentration

Predicted Response = (Cylinder Concentration) x (Response Line)
Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Calibration Drift Test Data

Calibration Gas	Cylinder Concentration	CE Test Response	Actual Response	Calibration Drift	Criteria Acceptance	
Test Run 1 Zero					< 3% of the measurement range	
Test Run 1 Mid					< 3% of the measurement range	
					Test Run 1 Avg. Conc.	
Test Run 2 Zero					< 3% of the measurement range	
Test Run 2 Mid					< 3% of the measurement range	
					Test Run 2 Avg. Conc.	
Test Run 3 Zero					< 3% of the measurement range	
Test Run 3 Mid					< 3% of the measurement range	
Calibration Drift = (Actual Response - CE Test Response) * 100 / Measurement Range					Test Run 3 Avg. Conc.	

Gas Cylinder Data

Calibration Gas	Required % of Span	Cylinder Concentration	Cylinder Composition	Cylinder Number	Expiration Date	Actual % of Span
Fuel			UHP H2			
Combustion Air			UHP Air			
Zero Gas			UHP Air			
Low Gas	25 - 35					
Mid Gas	45 - 55					
High Gas	80 - 90					

* Note: Heated sample line has 130 ppm background due to light oil coating that gets through filter. Line Temp = 320°F. Will not pass 0-1000 ppm range zero. Slowly continues to drop.

Method 18 Data Sheet (Methane)

Client	Global
Facility	S. Portland, ME
Source	Tank #9 Asphalt
Test Location	TTE exhaust
Date	28 July 2009 – Vessel Discharge

THC Analyzer Data

Manufacturer	VIG
Model/Serial Number	200 / 5090512
Fuel Pressure	7
Combustion Air Pressure	6
~~Sample Pressure~~ Carrier Gas	20 psi
Measurement Range	0-100
Response Time	120 sec

Test Data

Test Number	1	2	3
Start Time			
Stop Time			
Testers			

Calibration Error Test Data

Calibration Gas	Cylinder Concentration	Actual Response
Zero Gas	0	0
High Gas	88.2	89
Response Line		

Response Line = (Ha/Za)/(Hc-Zc)

Calibration Gas	Cylinder Concentration	Predicted Response	Actual Response	Calibration Error	Criteria Acceptance
Low Gas	30.5		29.8		< 5% of cylinder concentration
Mid Gas	50.9		50.4		< 5% of cylinder concentration

Predicted Response = (Cylinder Concentration) x (Response Line)
Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Calibration Drift Test Data

Calibration Gas	Cylinder Concentration	CE Test Response	Actual Response	Calibration Drift	Criteria Acceptance	
Test Run 1 Zero					< 3% of the measurement range	
Test Run 1 Mid					< 3% of the measurement range	
					Test Run 1 Avg. Conc.	
Test Run 2 Zero					< 3% of the measurement range	
Test Run 2 Mid					< 3% of the measurement range	
					Test Run 2 Avg. Conc.	
Test Run 3 Zero					< 3% of the measurement range	
Test Run 3 Mid					< 3% of the measurement range	
Calibration Drift = (Actual Response - CE Test Response) * 100 / Measurement Range					Test Run 3 Avg. Conc.	

Gas Cylinder Data

Calibration Gas	Required % of Span	Cylinder Concentration	Cylinder Composition	Cylinder Number	Expiration Date	Actual % of Span
Fuel			UHP H2			
Combustion Air			UHP Air			
Zero Gas			UHP Air			
Low Gas	25 - 35					
Mid Gas	45 - 55					
High Gas	80 - 90					

EASTMOUNT ENVIRONMENTAL SERVICES
Air Quality Specialists

EPA Method 2 Field Data Sheet

Client:	Global
Site Location:	South Portland, ME
Source:	Tank #9 TTE
Test Location:	Exhaust Duct
Duct Diameter:	7"
Test Number:	
Test Time:	
Test Date:	7-18-12
Testers:	AHS, MM
Pitot Number:	
Pitot Coefficient:	0.84
Ambient Temperature:	
Wet Bulb Temp:	
Barometric Pressure:	
Duct Static Pressure:	
	Pre / Post
Leak Checks:	OK / OK

Pump Calibration	Initial	Final
1		
2		
3		

Impinger Volume		
1		
2		
3		

Port Number	Traverse Point	Velocity Pressure	Stack Temp.	Cyclonic Angle	
A1		0.129	109		Horizontal
2		0.162	114		
3		0.178	184		
4		0.144	202		
B1	0.146	[illegible]	137		Vertical
2		0.175	144		
3		0.184	178		
4		0.154	201		

2 NEW PASTURE ROAD / UNIT 5 / NEWBURYPORT, MASSACHUSETTS 01950
tel 978.499.8300 / fax 978.499.9303 / www.eastmount.com

An Eastmount Company

VIG Monitor Daily Calibration Data Sheet

Daily Calibration Summary	
Facility:	Global South Portland
Source/Location:	Asphalt Tank #9
Technician Initials:	AMS
Date:	6-18-12
Time:	1345

VIG Monitor Summary	
Manufacturer -	VIG
Model/Serial Number -	200/~~2660406~~ 590512
THC Monitor Hydrogen Fuel Pressure -	Maintain at ~~6.5~~ psi 7
Methane Monitor Hydrogen Fuel Pressure -	Maintain at7.0 psi
Combustion Air Pressure -	Maintain at ~~5.5~~ psi 6
Sample Pressure -	Maintain at 2 psi
Carrier Gas Pressure -	Maintain at ~~22~~ psi 20

Total Hydrocarbon Daily Calibration Data		
Calibration Gas	Cylinder Concentration	Monitor Response
Zero Air	0	124
Propane	3140	3140

Methane Daily Calibration Data		
Calibration Gas	Cylinder Concentration	Monitor Response
Zero Air	0	3
Methane	50.9	53

VIG Monitor Daily Calibration Data Sheet

Daily Calibration Summary	
Facility:	Global South Portland
Source/Location:	Asphalt Tank #9
Technician Initials:	BAS
Date:	07/19/12
Time:	1515

VIG Monitor Summary	
Manufacturer -	VIG
Model/Serial Number -	200/~~2660406~~ 5070512
THC Monitor Hydrogen Fuel Pressure -	Maintain at ~~6.5~~ psi 7
Methane Monitor Hydrogen Fuel Pressure -	Maintain at7.0 psi
Combustion Air Pressure -	Maintain at ~~5.5~~ psi 6
Sample Pressure -	Maintain at 2 psi
Carrier Gas Pressure -	Maintain at ~~22~~ psi 20

Total Hydrocarbon Daily Calibration Data		
Calibration Gas	Cylinder Concentration	Monitor Response
Zero Air	0	170
Propane	3140	3081

Methane Daily Calibration Data		
Calibration Gas	Cylinder Concentration	Monitor Response
Zero Air	0	0
Methane	50.9	46

VIG Monitor Daily Calibration Data Sheet

Daily Calibration Summary	
Facility:	Global South Portland
Source/Location:	Asphalt Tank #9
Technician Initials:	BAY
Date:	07/20/2012
Time:	1450

VIG Monitor Summary	
Manufacturer -	VIG
Model/Serial Number -	200/~~2660406~~ SU70512
THC Monitor Hydrogen Fuel Pressure -	Maintain at ~~6.5~~ psi 7.0
Methane Monitor Hydrogen Fuel Pressure -	Maintain at7.0 psi
Combustion Air Pressure -	Maintain at ~~5.5~~ psi 6
Sample Pressure -	Maintain at 2 psi
Carrier Gas Pressure -	Maintain at ~~22~~ psi 20

Total Hydrocarbon Daily Calibration Data		
Calibration Gas	Cylinder Concentration	Monitor Response
Zero Air	0	215
Propane	3140	3057

Methane Daily Calibration Data		
Calibration Gas	Cylinder Concentration	Monitor Response
Zero Air	0	0
Methane	50.9	48

VIG Monitor Daily Calibration Data Sheet

Daily Calibration Summary	
Facility:	Global South Portland
Source/Location:	Asphalt Tank #9
Technician Initials:	Josh Pomerleau
Date:	7-21-12
Time:	0845

VIG Monitor Summary	
Manufacturer -	VIG
Model/Serial Number -	200/~~2660406~~ 50070512
THC Monitor Hydrogen Fuel Pressure -	Maintain at ~~6.5~~ psi 7
Methane Monitor Hydrogen Fuel Pressure -	Maintain at7.0 psi
Combustion Air Pressure -	Maintain at ~~5.5~~ psi 6
Sample Pressure -	Maintain at 2 psi
Carrier Gas Pressure -	Maintain at ~~22~~ psi 20

Total Hydrocarbon Daily Calibration Data		
Calibration Gas	Cylinder Concentration	Monitor Response
Zero Air	0	225
Propane	3140	3062

Methane Daily Calibration Data		
Calibration Gas	Cylinder Concentration	Monitor Response
Zero Air	0	0
Methane	50.9	48.0

VIG Monitor Daily Calibration Data Sheet

Daily Calibration Summary	
Facility:	Global South Portland
Source/Location:	Asphalt Tank #9
Technician Initials:	Joshua Pomerleau
Date:	7-22-12
Time:	1105

VIG Monitor Summary	
Manufacturer -	VIG
Model/Serial Number -	200/~~2660406~~ SU10512
THC Monitor Hydrogen Fuel Pressure -	Maintain at ~~6.5 psi~~ 7
Methane Monitor Hydrogen Fuel Pressure -	Maintain at7.0 psi
Combustion Air Pressure -	Maintain at ~~5.6 psi~~ 6
Sample Pressure -	Maintain at 2 psi
Carrier Gas Pressure -	Maintain at ~~22 psi~~ 22

Total Hydrocarbon Daily Calibration Data		
Calibration Gas	Cylinder Concentration	Monitor Response
Zero Air	0	192
Propane	3140	3007

Methane Daily Calibration Data		
Calibration Gas	Cylinder Concentration	Monitor Response
Zero Air	0	0
Methane	50.9	45.0

VIG Monitor Daily Calibration Data Sheet

Daily Calibration Summary	
Facility:	Global South Portland
Source/Location:	Asphalt Tank #9
Technician Initials:	Joshua R Romerlear
Date:	7-23-12
Time:	0809

VIG Monitor Summary	
Manufacturer -	VIG
Model/Serial Number -	200/~~2660406~~ 5090512
THC Monitor Hydrogen Fuel Pressure -	Maintain at ~~6.5 psi~~ 7
Methane Monitor Hydrogen Fuel Pressure -	Maintain at7.0 psi
Combustion Air Pressure -	Maintain at ~~5.5 psi~~ 6
Sample Pressure -	Maintain at 2 psi
Carrier Gas Pressure -	Maintain at ~~22 psi~~ 20

Total Hydrocarbon Daily Calibration Data		
Calibration Gas	Cylinder Concentration	Monitor Response
Zero Air	0	200
Propane	3140	3013

Methane Daily Calibration Data		
Calibration Gas	Cylinder Concentration	Monitor Response
Zero Air	0	0
Methane	50.9	44.0

VIG Monitor Daily Calibration Data Sheet

Daily Calibration Summary	
Facility:	Global South Portland
Source/Location:	Asphalt Tank #9
Technician Initials:	Tim Gordon
Date:	7/24/12
Time:	0802

VIG Monitor Summary	
Manufacturer -	VIG
Model/Serial Number -	200/~~2660406~~ 5~~9~~0512
THC Monitor Hydrogen Fuel Pressure -	Maintain at ~~6.5 psi~~ 7
Methane Monitor Hydrogen Fuel Pressure -	Maintain at7.0 psi
Combustion Air Pressure -	Maintain at ~~5.5 psi~~ 6
Sample Pressure -	Maintain at 2 psi
Carrier Gas Pressure -	Maintain at ~~22 psi~~ 20

Total Hydrocarbon Daily Calibration Data		
Calibration Gas	Cylinder Concentration	Monitor Response
Zero Air	0	213
Propane	3140	3080

Methane Daily Calibration Data		
Calibration Gas	Cylinder Concentration	Monitor Response
Zero Air	0	0
Methane	50.9	43

VIG Monitor Daily Calibration Data Sheet

Daily Calibration Summary	
Facility:	Global South Portland
Source/Location:	Asphalt Tank #9
Technician Initials:	TJG
Date:	7/25/12
Time:	1252

VIG Monitor Summary	
Manufacturer -	VIG
Model/Serial Number -	200/~~2660406~~ 5090512
THC Monitor Hydrogen Fuel Pressure -	Maintain at ~~6.5 psi~~ 7
Methane Monitor Hydrogen Fuel Pressure -	Maintain at7.0 psi
Combustion Air Pressure -	Maintain at ~~5.5 psi~~ 4
Sample Pressure -	Maintain at 2 psi
Carrier Gas Pressure -	Maintain at ~~22 psi~~ 2

Total Hydrocarbon Daily Calibration Data		
Calibration Gas	Cylinder Concentration	Monitor Response
Zero Air	0	156
Propane	3140	3016

Methane Daily Calibration Data		
Calibration Gas	Cylinder Concentration	Monitor Response
Zero Air	0	0
Methane	50.9	41

VIG Monitor Daily Calibration Data Sheet

Daily Calibration Summary	
Facility:	Global South Portland
Source/Location:	Asphalt Tank #9
Technician Initials:	TJG
Date:	7/26/12
Time:	0943

VIG Monitor Summary	
Manufacturer -	VIG
Model/Serial Number -	200/~~2660406~~ 507052
THC Monitor Hydrogen Fuel Pressure -	Maintain at 6.5 psi
Methane Monitor Hydrogen Fuel Pressure -	Maintain at7.0 psi
Combustion Air Pressure -	Maintain at 5.5 psi
Sample Pressure -	Maintain at 2 psi
Carrier Gas Pressure -	Maintain at 22 psi

Total Hydrocarbon Daily Calibration Data		
Calibration Gas	Cylinder Concentration	Monitor Response
Zero Air	0	170
Propane	3140	2970

Methane Daily Calibration Data		
Calibration Gas	Cylinder Concentration	Monitor Response
Zero Air	0	0
Methane	50.9	40

VIG Monitor Daily Calibration Data Sheet

Daily Calibration Summary	
Facility:	Global South Portland
Source/Location:	Asphalt Tank #9
Technician Initials:	D. Stratton
Date:	7-27-12
Time:	1640

VIG Monitor Summary	
Manufacturer -	VIG
Model/Serial Number -	200/~~2660406~~ 50 70512
THC Monitor Hydrogen Fuel Pressure -	Maintain at ~~6.5 psi~~ 7
Methane Monitor Hydrogen Fuel Pressure -	Maintain at7.0 psi
Combustion Air Pressure -	Maintain at ~~5.5 psi~~ 6
Sample Pressure -	Maintain at 2 psi
Carrier Gas Pressure -	Maintain at ~~22 psi~~ 20

After Cleaning lines. Analyzer not adjusted

Total Hydrocarbon Daily Calibration Data		
Calibration Gas	Cylinder Concentration	Monitor Response
Zero Air	0	56
Propane	3140	3054

Methane Daily Calibration Data		
Calibration Gas	Cylinder Concentration	Monitor Response
Zero Air	0	0
Methane	50.9	51

VIG Monitor Daily Calibration Data Sheet

Daily Calibration Summary	
Facility:	Global South Portland
Source/Location:	Asphalt Tank #9
Technician Initials:	A. Stratton
Date:	28 July 2012
Time:	2051

VIG Monitor Summary	
Manufacturer -	VIG
Model/Serial Number -	200/~~2660406~~ 50970512
THC Monitor Hydrogen Fuel Pressure -	Maintain at ~~6.5 psi~~ 7
Methane Monitor Hydrogen Fuel Pressure -	Maintain at 7.0 psi
Combustion Air Pressure -	Maintain at ~~5.5 psi~~ 6
Sample Pressure -	Maintain at 2 psi
Carrier Gas Pressure -	Maintain at ~~22 psi~~ 20

Total Hydrocarbon Daily Calibration Data		
Calibration Gas	Cylinder Concentration	Monitor Response
Zero Air	0	160
Propane	3140	3130
Propane	903.9	1030

Methane Daily Calibration Data		
Calibration Gas	Cylinder Concentration	Monitor Response
Zero Air	0	4
Methane	50.9	55

VIG Monitor Daily Calibration Data Sheet

Daily Calibration Summary	
Facility:	Global South Portland
Source/Location:	Asphalt Tank #9
Technician Initials:	A. Stratton
Date:	29 July 2012
Time:	0945

VIG Monitor Summary	
Manufacturer -	VIG
Model/Serial Number -	200/~~2600400~~ 50?0512
THC Monitor Hydrogen Fuel Pressure -	Maintain at ~~6.5 psi~~ 7
Methane Monitor Hydrogen Fuel Pressure -	Maintain at7.0 psi
Combustion Air Pressure -	Maintain at ~~6.5 psi~~ 6
Sample Pressure -	Maintain at 2 psi
Carrier Gas Pressure -	Maintain at ~~22 psi~~ 20

Total Hydrocarbon Daily Calibration Data		
Calibration Gas	Cylinder Concentration	Monitor Response
Zero Air	0	115
Propane	903.9	936

Methane Daily Calibration Data		
Calibration Gas	Cylinder Concentration	Monitor Response
Zero Air	0	0
Methane	50.9	49.6

VIG Monitor Daily Calibration Data Sheet

Daily Calibration Summary	
Facility:	Global South Portland
Source/Location:	Asphalt Tank #9
Technician Initials:	RJA
Date:	07/30/12
Time:	1350

VIG Monitor Summary	
Manufacturer -	VIG
Model/Serial Number -	200/2660406
THC Monitor Hydrogen Fuel Pressure -	Maintain at ~~8.5 psi~~ 7
Methane Monitor Hydrogen Fuel Pressure -	Maintain at7.0 psi
Combustion Air Pressure -	Maintain at ~~5.5 psi~~ 6
Sample Pressure -	Maintain at 2 psi
Carrier Gas Pressure -	Maintain at ~~22 psi~~ 20

Total Hydrocarbon Daily Calibration Data		
Calibration Gas	Cylinder Concentration	Monitor Response
Zero Air	0	120
Propane	903.9	934

Methane Daily Calibration Data		
Calibration Gas	Cylinder Concentration	Monitor Response
Zero Air	0	-0.1
Methane	50.9	49

VIG Monitor Daily Calibration Data Sheet

Daily Calibration Summary	
Facility:	Global South Portland
Source/Location:	Asphalt Tank #9
Technician Initials:	TJG
Date:	7/31/12
Time:	0935

VIG Monitor Summary	
Manufacturer -	VIG
Model/Serial Number -	200/2660406
THC Monitor Hydrogen Fuel Pressure -	Maintain at ~~6.5 psi~~ 7
Methane Monitor Hydrogen Fuel Pressure -	Maintain at7.0 psi
Combustion Air Pressure -	Maintain at ~~5.5 psi~~ 6
Sample Pressure -	Maintain at 2 psi
Carrier Gas Pressure -	Maintain at ~~22 psi~~ 20

Total Hydrocarbon Daily Calibration Data		
Calibration Gas	Cylinder Concentration	Monitor Response
Zero Air	0	127
Propane	903.9	934

Methane Daily Calibration Data		
Calibration Gas	Cylinder Concentration	Monitor Response
Zero Air	0	0
Methane	50.9	49.1

VIG Monitor Daily Calibration Data Sheet

Daily Calibration Summary	
Facility:	Global South Portland
Source/Location:	Asphalt Tank #9
Technician Initials:	BAX
Date:	08/01/2012
Time:	1340

VIG Monitor Summary	
Manufacturer -	VIG
Model/Serial Number -	200/2660406
THC Monitor Hydrogen Fuel Pressure -	Maintain at ~~8.5~~ psi 7
Methane Monitor Hydrogen Fuel Pressure -	Maintain at7.0 psi
Combustion Air Pressure -	Maintain at ~~5.5~~ psi 6
Sample Pressure -	Maintain at 2 psi
Carrier Gas Pressure -	Maintain at ~~22~~ psi 20

Total Hydrocarbon Daily Calibration Data		
Calibration Gas	Cylinder Concentration	Monitor Response
Zero Air	0	117
Propane	903.9	952

Methane Daily Calibration Data		
Calibration Gas	Cylinder Concentration	Monitor Response
Zero Air	0	-0.1
Methane	50.9	48.1

VIG Monitor Daily Calibration Data Sheet

Daily Calibration Summary	
Facility:	Global South Portland
Source/Location:	Asphalt Tank #9
Technician Initials:	TJG
Date:	8/2/12
Time:	1640

VIG Monitor Summary	
Manufacturer -	VIG
Model/Serial Number -	200/2660406
THC Monitor Hydrogen Fuel Pressure -	Maintain at ~~6.5 psi~~ 7
Methane Monitor Hydrogen Fuel Pressure -	Maintain at7.0 psi
Combustion Air Pressure -	Maintain at ~~5.5 psi~~ 6
Sample Pressure -	Maintain at 2 psi
Carrier Gas Pressure -	Maintain at ~~22 psi~~ 20

Total Hydrocarbon Daily Calibration Data		
Calibration Gas	Cylinder Concentration	Monitor Response
Zero Air	0	125
Propane	903.9	945

Methane Daily Calibration Data		
Calibration Gas	Cylinder Concentration	Monitor Response
Zero Air	0	0.1
Methane	50.9	48.9

VIG Monitor Daily Calibration Data Sheet

Daily Calibration Summary	
Facility:	Global South Portland
Source/Location:	Asphalt Tank #9
Technician Initials:	TSB
Date:	8/3/12
Time:	1904

VIG Monitor Summary	
Manufacturer -	VIG
Model/Serial Number -	200/2660406
THC Monitor Hydrogen Fuel Pressure -	Maintain at 6~~.5 psi~~ 7
Methane Monitor Hydrogen Fuel Pressure -	Maintain at7.0 psi
Combustion Air Pressure -	Maintain at 5~~.5 psi~~ 6
Sample Pressure -	Maintain at 2 psi
Carrier Gas Pressure -	Maintain at 2~~2 psi~~ 21

Total Hydrocarbon Daily Calibration Data		
Calibration Gas	Cylinder Concentration	Monitor Response
Zero Air	0	150
Propane	903.9	990

Methane Daily Calibration Data		
Calibration Gas	Cylinder Concentration	Monitor Response
Zero Air	0	-0.02
Methane	50.9	54.1

VIG Monitor Daily Calibration Data Sheet

Daily Calibration Summary	
Facility:	Global South Portland
Source/Location:	Asphalt Tank #9
Technician Initials:	TJG
Date:	8/4/12
Time:	0915

VIG Monitor Summary	
Manufacturer -	VIG
Model/Serial Number -	200/2660406
THC Monitor Hydrogen Fuel Pressure -	Maintain at ~~6.5 psi~~ 7
Methane Monitor Hydrogen Fuel Pressure -	Maintain at7.0 psi
Combustion Air Pressure -	Maintain at ~~5.5 psi~~ 6
Sample Pressure -	Maintain at 2 psi
Carrier Gas Pressure -	Maintain at ~~22 psi~~ 21

Total Hydrocarbon Daily Calibration Data		
Calibration Gas	Cylinder Concentration	Monitor Response
Zero Air	0	180
Propane	903.9	1002

Methane Daily Calibration Data		
Calibration Gas	Cylinder Concentration	Monitor Response
Zero Air	0	-0.02
Methane	50.9	68.9

VIG Monitor Daily Calibration Data Sheet

Daily Calibration Summary	
Facility:	Global South Portland
Source/Location:	Asphalt Tank #9
Technician Initials:	JRP
Date:	8-6-12
Time:	11:15

VIG Monitor Summary	
Manufacturer -	VIG
Model/Serial Number -	200/2660406
THC Monitor Hydrogen Fuel Pressure -	Maintain at ~~6.5 psi~~ 7
Methane Monitor Hydrogen Fuel Pressure -	Maintain at7.0 psi
Combustion Air Pressure -	Maintain at ~~5.5 psi~~ 6
Sample Pressure -	Maintain at 2 psi
Carrier Gas Pressure -	Maintain at ~~22 psi~~ 20

Total Hydrocarbon Daily Calibration Data		
Calibration Gas	Cylinder Concentration	Monitor Response
Zero Air	0	201
Propane	903.9	855

Methane Daily Calibration Data		
Calibration Gas	Cylinder Concentration	Monitor Response
Zero Air	0	-3
Methane	50.9	102.2

VIG Monitor Daily Calibration Data Sheet

Daily Calibration Summary	
Facility:	Global South Portland
Source/Location:	Asphalt Tank #9
Technician Initials:	TJG
Date:	8/7/12
Time:	0937

VIG Monitor Summary	
Manufacturer -	VIG
Model/Serial Number -	200/2660406
THC Monitor Hydrogen Fuel Pressure -	Maintain at ~~6.5 psi~~ 7
Methane Monitor Hydrogen Fuel Pressure -	Maintain at7.0 psi
Combustion Air Pressure -	Maintain at ~~5.5 psi~~ 6
Sample Pressure -	Maintain at 2 psi
Carrier Gas Pressure -	Maintain at ~~22 psi~~ 20

Total Hydrocarbon Daily Calibration Data		
Calibration Gas	Cylinder Concentration	Monitor Response
Zero Air	0	130
Propane	903.9	930

Methane Daily Calibration Data		
Calibration Gas	Cylinder Concentration	Monitor Response
Zero Air	0	0.02
Methane	50.9	90.3

CALLED ANTHONY AT 1040 ABOUT ABNORMAL READINGS.

1110 - READJUSTED THE CALIBRATION GAS (METH 50.9) SPAN TO 49.3 PER ANTHONY'S INSTRUCTIONS. THE MONITOR RESPONSE HAD DRIFTED OUT OF THE PARAMETER'S. SEEMS TO BE RUNNING OK NOW. TJG

VIG Monitor Daily Calibration Data Sheet

Daily Calibration Summary	
Facility:	Global South Portland
Source/Location:	Asphalt Tank #9
Technician Initials:	TJG
Date:	8/8/12
Time:	0935

VIG Monitor Summary	
Manufacturer -	VIG
Model/Serial Number -	200/2660406
THC Monitor Hydrogen Fuel Pressure -	Maintain at ~~6.5 psi~~ 7
Methane Monitor Hydrogen Fuel Pressure -	Maintain at7.0 psi
Combustion Air Pressure -	Maintain at 5~~.5 psi~~ 6
Sample Pressure -	Maintain at 2 psi
Carrier Gas Pressure -	Maintain at 22~~ psi~~ 20

Total Hydrocarbon Daily Calibration Data		
Calibration Gas	Cylinder Concentration	Monitor Response
Zero Air	0	154
Propane	903.9	930

Methane Daily Calibration Data		
Calibration Gas	Cylinder Concentration	Monitor Response
Zero Air	0	1
Methane	50.9	49.5

after adjustment.

VIG Monitor Daily Calibration Data Sheet

Daily Calibration Summary	
Facility:	Global South Portland
Source/Location:	Asphalt Tank #9
Technician Initials:	TJb
Date:	8/9/12
Time:	0926

VIG Monitor Summary	
Manufacturer -	VIG
Model/Serial Number -	200/2660406
THC Monitor Hydrogen Fuel Pressure -	Maintain at ~~6.5 psi~~ 7
Methane Monitor Hydrogen Fuel Pressure -	Maintain at7.0 psi
Combustion Air Pressure -	Maintain at ~~5.5 psi~~ 6
Sample Pressure -	Maintain at 2 psi
Carrier Gas Pressure -	Maintain at ~~22 psi~~ 21

Total Hydrocarbon Daily Calibration Data		
Calibration Gas	Cylinder Concentration	Monitor Response
Zero Air	0	146
Propane	903.9	925

Methane Daily Calibration Data		
Calibration Gas	Cylinder Concentration	Monitor Response
Zero Air	0	-0.1
Methane	50.9	42.4

VIG Monitor Daily Calibration Data Sheet

Daily Calibration Summary	
Facility:	Global South Portland
Source/Location:	Asphalt Tank #9
Technician Initials:	TJb
Date:	8/10/12
Time:	0930

VIG Monitor Summary	
Manufacturer -	VIG
Model/Serial Number -	200/2660406
THC Monitor Hydrogen Fuel Pressure -	Maintain at ~~6.5 psi~~ 7
Methane Monitor Hydrogen Fuel Pressure -	Maintain at7.0 psi
Combustion Air Pressure -	Maintain at ~~5.6 psi~~ 6
Sample Pressure -	Maintain at 2 psi
Carrier Gas Pressure -	Maintain at ~~22 psi~~ 20

Total Hydrocarbon Daily Calibration Data		
Calibration Gas	Cylinder Concentration	Monitor Response
Zero Air	0	131
Propane	903.9	899

Methane Daily Calibration Data		
Calibration Gas	Cylinder Concentration	Monitor Response
Zero Air	0	-0.1
Methane	50.9	35.5

DMS recal after line change

next page →

VIG Monitor Daily Calibration Data Sheet

Daily Calibration Summary	
Facility:	Global South Portland
Source/Location:	Asphalt Tank #9
Technician Initials:	AMS
Date:	8/10/12 2 of 2
Time:	17:42

VIG Monitor Summary	
Manufacturer -	VIG
Model/Serial Number -	200/2660406
THC Monitor Hydrogen Fuel Pressure -	Maintain at ~~6.5 psi~~ 7
Methane Monitor Hydrogen Fuel Pressure -	Maintain at7.0 psi
Combustion Air Pressure -	Maintain at ~~5.5 psi~~ 6
Sample Pressure -	Maintain at 2 psi
Carrier Gas Pressure -	Maintain at ~~22 psi~~ 20

Total Hydrocarbon Daily Calibration Data		
Calibration Gas	Cylinder Concentration	Monitor Response
Zero Air	0	105
Propane	903.9	900

Methane Daily Calibration Data		
Calibration Gas	Cylinder Concentration	Monitor Response
Zero Air	0	0.2
Methane	50.9	50.5

Good ½ calibration. AMS

VIG Monitor Daily Calibration Data Sheet

Daily Calibration Summary	
Facility:	Global South Portland
Source/Location:	Asphalt Tank #9
Technician Initials:	BAY
Date:	08/13/2012
Time:	1440

VIG Monitor Summary	
Manufacturer -	VIG
Model/Serial Number -	200/2660406
THC Monitor Hydrogen Fuel Pressure -	Maintain at ~~6.5 psi~~ 7
Methane Monitor Hydrogen Fuel Pressure -	Maintain at7.0 psi
Combustion Air Pressure -	Maintain at ~~5.5 psi~~ 6
Sample Pressure -	Maintain at 2 psi
Carrier Gas Pressure -	Maintain at ~~22 psi~~ 20

Total Hydrocarbon Daily Calibration Data		
Calibration Gas	Cylinder Concentration	Monitor Response
Zero Air	0	12.6
Propane	903.9	936

Methane Daily Calibration Data		
Calibration Gas	Cylinder Concentration	Monitor Response
Zero Air	0	-0.1
Methane	50.9	43.3

VIG Monitor Daily Calibration Data Sheet

Daily Calibration Summary	
Facility:	Global South Portland
Source/Location:	Asphalt Tank #9
Technician Initials:	BAC
Date:	08/14/2012
Time:	1507

VIG Monitor Summary	
Manufacturer -	VIG
Model/Serial Number -	200/2660406
THC Monitor Hydrogen Fuel Pressure -	Maintain at ~~6.5 psi~~ 7
Methane Monitor Hydrogen Fuel Pressure -	Maintain at7.0 psi
Combustion Air Pressure -	Maintain at ~~5.5 psi~~ 6
Sample Pressure -	Maintain at 2 psi
Carrier Gas Pressure -	Maintain at ~~22 psi~~ 20

Total Hydrocarbon Daily Calibration Data		
Calibration Gas	Cylinder Concentration	Monitor Response
Zero Air	0	125
Propane	903.9	932

Methane Daily Calibration Data		
Calibration Gas	Cylinder Concentration	Monitor Response
Zero Air	0	-0.1
Methane	50.9	41.3

VIG Monitor Daily Calibration Data Sheet

Daily Calibration Summary	
Facility:	Global South Portland
Source/Location:	Asphalt Tank #9
Technician Initials:	JRP
Date:	8-15-12
Time:	1254

VIG Monitor Summary	
Manufacturer -	VIG
Model/Serial Number -	200/2660406
THC Monitor Hydrogen Fuel Pressure -	Maintain at ~~6.5 psi~~ 7
Methane Monitor Hydrogen Fuel Pressure -	Maintain at7.0 psi
Combustion Air Pressure -	Maintain at ~~5.5 psi~~ 6
Sample Pressure -	Maintain at 2 psi
Carrier Gas Pressure -	Maintain at ~~22 psi~~ 21

Total Hydrocarbon Daily Calibration Data		
Calibration Gas	Cylinder Concentration	Monitor Response
Zero Air	0	149
Propane	903.9	926

Methane Daily Calibration Data		
Calibration Gas	Cylinder Concentration	Monitor Response
Zero Air	0	-0.1
Methane	50.9	39.7

VIG Monitor Daily Calibration Data Sheet

Daily Calibration Summary	
Facility:	Global South Portland
Source/Location:	Asphalt Tank #9
Technician Initials:	A. Stratton
Date:	16 Aug 2012
Time:	17:00

VIG Monitor Summary	
Manufacturer -	VIG
Model/Serial Number -	200/2660406
THC Monitor Hydrogen Fuel Pressure -	Maintain at ~~6.5 psi~~ 7
Methane Monitor Hydrogen Fuel Pressure -	Maintain at7.0 psi
Combustion Air Pressure -	Maintain at ~~5.5 psi~~ 6
Sample Pressure -	Maintain at 2 psi
Carrier Gas Pressure -	Maintain at ~~22 psi~~ 20

Total Hydrocarbon Daily Calibration Data		
Calibration Gas	Cylinder Concentration	Monitor Response
Zero Air	0	154
Propane	903.9	969

→ would continue dropping over next 20 minutes.

Methane Daily Calibration Data		
Calibration Gas	Cylinder Concentration	Monitor Response
Zero Air	0	-10.2
Methane	50.9	39.2