

Atmospheric Analysis & Consulting, Inc.

CLIENT : SWAPE
PROJECT NAME : Bridgeton Sanitary Landfill Quality Assessment
AAC PROJECT NO. : 130679
REPORT DATE : 06/07/2013

On June 6, 2013, Atmospheric Analysis & Consulting, Inc. received four (4) Six-Liter Summa Canisters for Total Reduced Sulfur analysis by ASTM D-5504. Upon receipt, the samples were assigned unique Laboratory ID numbers as follows:


Client ID	Lab No.	Return Pressure (mmHgA)
U-1 W2 Canister	130679-63353	433.5
D-1 W5 Canister	130679-63354	486.6
D-2 F/S Canister	130679-63355	662.2
D-3 SVP Canister	130679-63356	518.8

ASTM D-5504 Analysis - Up to a 1 mL aliquot of sample is injected into the GC/SCD for analysis following ASTM D-5504 as specified in the SOW.

No problems were encountered during receiving, preparation, and/ or analysis of these samples. The test results included in this report meet all requirements of the NELAC Standards and/or AAC SOP# AACI-ASTM D-5504.

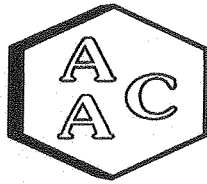
I certify that this data is technically accurate, complete, and in compliance with the terms and conditions of the contract. The Laboratory Director or his designee, as verified by the following signature, has authorized release of the data contained in this hardcopy data package.

If you have any questions or require further explanation of data results, please contact the undersigned.


Marcus Hueppe
Laboratory Director

This report consists of 32 pages.





CANISTER PRESSURE LOG

Client: Soil Water Air Protection Ent Project No.: 130679
Date: 6/6/2013

Canister #	Sample #	Initial Pressure	Final Pressure
577	63353	433.5	1024.2
700	63354	486.6	1016.4
703	63355	662.2	1016.5
578	63356	518.8	1025.0

Atmospheric Analysis and Consulting Inc.

Canister Sampling Field Data Sheet

GENERAL INFORMATION

Project Name and/or ID No.: BRIDGETON SANITARY LANDFILL

Site Address and/or ID No: _____

Sample Name and/or ID No.: U-1 W2

AAC Batch ID: 130679 AAC Sample ID: 63353

SAMPLING INFORMATION

Start Date/Time: 6/3 - 8:30 AM Stop Date/Time: 6/3 12:30 PM

Start Temp/Pressure*: 16°C 30.06 Stop Temp/Pressure*: 18°C - 30.09

Initial Can Pressure**: -31 Final Can Pressure**: -15

* Ambient Barometric Reading where sample is being taken (C/inHg) ** Flow Controller Gauge Reading (inHg)

Comments: _____

John Blank
Sampler Name (Print)

John Blank
Sampler Signature/Date

LABORATORY INFORMATION

Canister Size: 6 - Liter

Sampling Period: 4 - Hour

Canister Serial No.: 577

Flow Controller Serial No: 711

Initial Pressure: 7.2

Certified Flow Rate: 7.9 18.0

Return Pressure: 433.4

Certified By/Date: JJ 5/24/2013 5/13/2013 6/7/13

Final Pressure: 1029.2

Flow Rate upon Return: 17.9

Date Shipped From Lab: 5/22/2013

Shipped By: JJ

Date Returned to Lab: 6/6/2013

Received By: JJ

Flow Controller Certification File ID: MS0305291305

Canister Certification File ID: MS0305291316

Certification Type: SIM _____ SCAN NJLL _____ PAMS _____ Other _____

John Blank 6/6/13
Chemist Signature/Date

John Blank 6/13/13
Lab Manager Signature/Date

*Sampler is required to fill out all highlighted sections during sampling.
All remaining sections will be completed upon return by the laboratory.*

Atmospheric Analysis and Consulting Inc.

Canister Sampling Field Data Sheet

GENERAL INFORMATION

Project Name and/or ID No.: BRIARCLIFF Sanitary LANDFILL

Site Address and/or ID No.: _____

Sample Name and/or ID No.: D-1 WS

AAC Batch ID: 130679 AAC Sample ID: 63354

SAMPLING INFORMATION

Start Date/Time: 8:55 AM Stop Date/Time: 12:55 AM

Start Temp/Pressure*: 16 / 30.03 Stop Temp/Pressure*: 18°C / 30.09

Initial Can Pressure**: -31 Final Can Pressure**: -13

* Ambient Barometric Reading where sample is being taken (C / inHg) ** Flow Controller Gauge Reading (inHg)

Comments: _____

JOHN BLANK
Sampler Name (Print)

John Blank
Sampler Signature/Date

LABORATORY INFORMATION

Canister Size: 6 - Liter

Sampling Period: 4 - Hour

Canister Serial No.: 700

Flow Controller Serial No.: 808

Initial Pressure: 7.1

Certified Flow Rate: 18.0

Return Pressure: 486.6

Certified By/Date: JJ 5/13/2013 ^{5/24/2013}

Final Pressure: 1016.4

Flow Rate upon Return: 18.7

Date Shipped From Lab: 5/22/2013

Shipped By: JJ

Date Returned to Lab: 6/6/2013

Received By: JJ

Flow Controller Certification File ID: M903/05291305

Canister Certification File ID: M903/05211315

Certification Type: SIM SCAN NJLL PAMS Other

John Blank 06/07/13
Chemist Signature/Date

JJ 6/13/13
Lab Manager Signature/Date

**Sampler is required to fill out all highlighted sections during sampling.
All remaining sections will be completed upon return by the laboratory.**

Atmospheric Analysis and Consulting Inc.

Canister Sampling Field Data Sheet

GENERAL INFORMATION

Project Name and/or ID No.: BRIDGEPORT SANITARY LANDFILL

Site Address and/or ID No: _____

Sample Name and/or ID No.: D-2 F/S

AAC Batch ID: 130679 AAC Sample ID: 63355

SAMPLING INFORMATION

Start Date/Time: 6/3 9:30 Stop Date/Time: 6/3 1:30

Start Temp/Pressure*: 16°C 30.03 Stop Temp/Pressure*: 18°C 30.08

Initial Can Pressure**: -27 Final Can Pressure**: -4

* Ambient Barometric Reading where sample is being taken (C / inHg) ** Flow Controller Gauge Reading (inHg)

Comments: _____

JOHN BLANK
Sampler Name (Print)

John Blank
Sampler Signature/Date

LABORATORY INFORMATION

Canister Size: 6 - Liter

Sampling Period: 4 - Hour

Canister Serial No.: 703

Flow Controller Serial No: 693

Initial Pressure: 7.6

Certified Flow Rate: 18.0

Return Pressure: 622.2

Certified By/Date: JJ 5/13/2013 ^{5/24/2013}

Final Pressure: 1016.5

Flow Rate upon Return: 21.3

Date Shipped From Lab: 5/22/2013 Shipped By: JJ

Date Returned to Lab: 6/3/2013 Received By: JJ

Flow Controller Certification File ID: 4693/0521305

Canister Certification File ID: 4603/0521318

Certification Type: SIM SCAN NJLL PAMS Other

John Blank 6/6/13
Chemist Signature/Date

JJ 6/13/13
Lab Manager Signature/Date

*Sampler is required to fill out all highlighted sections during sampling.
All remaining sections will be completed upon return by the laboratory.*

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6/7/13

Atmospheric Analysis and Consulting Inc.

Canister Sampling Field Data Sheet

GENERAL INFORMATION

Project Name and/or ID No.: BRIDGEPORT SANITARY LANDFILL
Site Address and/or ID No.: _____
Sample Name and/or ID No.: D-3 SVP
AAC Batch ID: 130679 AAC Sample ID: 63356

SAMPLING INFORMATION

Start Date/Time: 6/3 9:45 Stop Date/Time: 6/3 13:45
Start Temp/Pressure*: 16°C - 30.03 Stop Temp/Pressure*: 19°C - 30.07
Initial Can Pressure**: -29 Final Can Pressure**: -4

* Ambient Barometric Reading where sample is being taken (C / inHg) ** Flow Controller Gauge Reading (inHg)

Comments: _____

JOHN BLANK
Sampler Name (Print)

John Blank
Sampler Signature/Date

LABORATORY INFORMATION

Canister Size: 6 - Liter Sampling Period: 4 - Hour
Canister Serial No.: 578 Flow Controller Serial No.: 692
Initial Pressure: 7.2 Certified Flow Rate: 18.1 18.0
Return Pressure: 518.8 Certified By/Date: JJ 5/24/2013
Final Pressure: 1015.0 Flow Rate upon Return: 18.1 JJ 5/13/2013

Date Shipped From Lab: 5/22/2013 Shipped By: JJ
Date Returned to Lab: 6/6/2013 Received By: JJ
Flow Controller Certification File ID: 11603/0529305
Canister Certification File ID: 11603/05211317
Certification Type: SIM _____ SCAN NJLL _____ PAMS _____ Other _____

John Blank 6/13/13
Chemist Signature/Date

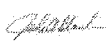
JJ 6/13/13
Lab Manager Signature/Date



**Sampler is required to fill out all highlighted sections during sampling.
All remaining sections will be completed upon return by the laboratory.**

AAC # 130679

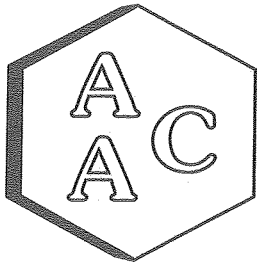
CHAIN OF CUSTODY RECORD / ANALYTICAL REQUEST FORM

Bridgeton Sanitary Landfill Air Quality Assessment

Client Name: SOIL / WATER AIR PROTECTION ENTERPRISE					Telephone No. / Fax No.: (310) 434-0110 / (310) 434-0011					Date: June 3rd, 2013		Page 1 of 1						
Project Manager: PAUL ROSENFELD, PH.D.					REQUESTED TESTS / ANALYSES										Special Instructions / Conditions of Receipt			
Address: 1640 FIFTH STREET, SUITE 204, SANTA MONICA, CA 90401																		
Project Name and Location: BRIDGETON SANITARY LANDFILL AIR QUALITY ASSESSMENT																		
Sampled By: John Blank		Sampler Signature: 																
LAB ID	SAMPLE ID NUMBER	Type	Date	Time	VOCs - EPA TO-15	Reduced Sulfur Compounds - ASTM D5504	Carbonyls - EPA TO-11A	Carboxylic Acids - Tube GC-MS	HCL - NIOSH 7903	Ammonia - OSHA ID-188	SO2 - OSHA ID-200	HCN - NIOSH 6010	Amines - NIOSH 2010M	Fixed Gases - EPA 3C	PAHs / Dioxins - EPA TO-15A / 9A	Mercury - NIOSH 6009	Odor Evaluation	
63353	U-1 W2 Canister		June 3rd	4 Hr	X	X												Canister # 577 Flow # 711
63354	D-1 W5 Canister		June 3rd	4 Hr	X	X												Canister # 700 Flow # 808
63355	D-2 F/S Canister		June 3rd	4 Hr	X	X												Canister # 703 Flow # 693
63356	D-3 SVP Canister		June 3rd	4 Hr	X	X												Canister # 578 Flow # 692

Requested Turnaround Time: Standard turn-around for all analyses. If possible deliver report within 2 weeks.				QC Requirements: Provide Level IV QC Package for all Analyses.			
Relinquished By: 	John Blank	Date: June 3rd, 2013	Time: 12 Noon	Received By:	Date:	Time:	
Relinquished By:		Date:	Time:	Received By:	Date:	Time:	
Relinquished By:		Date:	Time:	Received By: 	Date: 6/6/2013	Time: 1230	

Results



Atmospheric Analysis & Consulting, Inc.

LABORATORY ANALYSIS REPORT

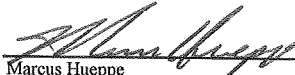
CLIENT : SWAPE
 PROJECT NO. : 130679
 MATRIX : AIR
 UNITS : ppbV

SAMPLING DATE : 06/03/2013
 RECEIVING DATE : 06/06/2013
 ANALYSIS DATE : 06/07/2013
 REPORT DATE : 06/07/2013

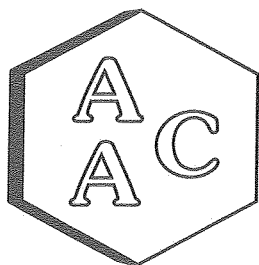
Sulfur Compounds by ASTM D-5504

Client ID	U-1 W2 Canister	D-1 W5 Canister	D-2 F/S Canister	D-3 SVP Canister
AAC ID	130679-63353	130679-63354	130679-63355	130679-63356
Canister Dil. Fac.	2.36	2.09	1.54	1.98
Analyte	Result	Result	Result	Result
Hydrogen Sulfide	< 23.6	< 20.9	< 15.4	< 19.8
Carbonyl Sulfide	< 23.6	< 20.9	< 15.4	< 19.8
Sulfur Dioxide	< 23.6	< 20.9	< 15.4	< 19.8
Methyl Mercaptan	< 23.6	< 20.9	< 15.4	< 19.8
Ethyl Mercaptan	< 23.6	< 20.9	< 15.4	< 19.8
Dimethyl Sulfide	< 23.6	< 20.9	< 15.4	< 19.8
Carbon Disulfide	< 11.8	< 10.4	< 7.7	< 9.9
Isopropyl Mercaptan	< 23.6	< 20.9	< 15.4	< 19.8
tert-Butyl Mercaptan	< 23.6	< 20.9	< 15.4	< 19.8
n-Propyl Mercaptan	< 23.6	< 20.9	< 15.4	< 19.8
Methylethylsulfide	< 23.6	< 20.9	< 15.4	< 19.8
sec-Butyl Mercaptan	< 23.6	< 20.9	< 15.4	< 19.8
Thiophene	< 23.6	< 20.9	< 15.4	< 19.8
iso-Butyl Mercaptan	< 23.6	< 20.9	< 15.4	< 19.8
Diethyl Sulfide	< 23.6	< 20.9	< 15.4	< 19.8
n-Butyl Mercaptan	< 23.6	< 20.9	< 15.4	< 19.8
Dimethyl Disulfide	< 11.8	< 10.4	< 7.7	< 9.9
2-Methylthiophene	< 23.6	< 20.9	< 15.4	< 19.8
3-Methylthiophene	< 23.6	< 20.9	< 15.4	< 19.8
Tetrahydrothiophene	< 23.6	< 20.9	< 15.4	< 19.8
Bromothiophene	< 23.6	< 20.9	< 15.4	< 19.8
Thiophenol	< 23.6	< 20.9	< 15.4	< 19.8
Diethyl disulfide	< 11.8	< 10.4	< 7.7	< 9.9
Total Unidentified Sulfur	< 23.6	< 20.9	< 15.4	< 19.8

All unidentified sulfur compound's concentrations expressed in terms of $\frac{1}{5}$
 Sample Quantitation Limit (SQL) is equal to the Quantitation Limit x Canister Dil. Fac. x Analysis Dil. Fac.


 Marcus Hueppe
 Laboratory Director





Atmospheric Analysis & Consulting, Inc.

LABORATORY ANALYSIS REPORT

CLIENT : SWAPE
PROJECT NO. : 130679
MATRIX : AIR
UNITS : ug/m³

SAMPLING DATE : 06/03/2013
RECEIVING DATE : 06/06/2013
ANALYSIS DATE : 06/07/2013
REPORT DATE : 06/07/2013

Sulfur Compounds by ASTM D-5504

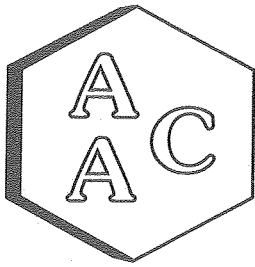
Client ID	U-1 W2 Canister	D-1 W5 Canister	D-2 F/S Canister	D-3 SVP Canister
AAC ID	130679-63353	130679-63354	130679-63355	130679-63356
Canister Dil. Fac.	2.36	2.09	1.54	1.98
Analyte	Result	Result	Result	Result
Hydrogen Sulfide	< 32.9	< 29.1	< 21.4	< 27.5
Carbonyl Sulfide	< 58.0	< 51.3	< 37.7	< 48.5
Sulfur Dioxide	< 61.9	< 54.7	< 40.2	< 51.8
Methyl Mercaptan	< 46.5	< 41.1	< 30.2	< 38.9
Ethyl Mercaptan	< 60.0	< 53.1	< 39.0	< 50.2
Dimethyl Sulfide	< 60.0	< 53.1	< 39.0	< 50.2
Carbon Disulfide	< 36.8	< 32.5	< 23.9	< 30.8
Isopropyl Mercaptan	< 73.6	< 65.1	< 47.8	< 61.5
tert-Butyl Mercaptan	< 87.1	< 77.0	< 56.6	< 72.9
n-Propyl Mercaptan	< 73.6	< 65.1	< 47.8	< 61.5
Methylethylsulfide	< 73.6	< 65.1	< 47.8	< 61.5
sec-Butyl Mercaptan	< 87.2	< 77.1	< 56.6	< 72.9
Thiophene	< 81.3	< 71.9	< 52.8	< 68.0
iso-Butyl Mercaptan	< 87.2	< 77.1	< 56.6	< 72.9
Diethyl Sulfide	< 87.1	< 77.0	< 56.6	< 72.9
n-Butyl Mercaptan	< 87.1	< 77.0	< 56.6	< 72.9
Dimethyl Disulfide	< 45.5	< 40.2	< 29.6	< 38.1
2-Methylthiophene	< 94.9	< 83.9	< 61.6	< 79.3
3-Methylthiophene	< 94.9	< 83.9	< 61.6	< 79.3
Tetrahydrothiophene	< 85.2	< 75.3	< 55.4	< 71.2
Bromothiophene	< 158	< 139	< 102	< 132
Thiophenol	< 106	< 94.1	< 69.2	< 89.0
Diethyl disulfide	< 59.1	< 52.2	< 38.4	< 49.4
Total Unidentified Sulfur	< 32.9	< 29.1	< 21.4	< 27.5

All unidentified sulfur compound's concentrations expressed in terms of μS
Sample Quantitation Limit (SQL) is equal to the Quantitation Limit x Canister Dil. Fac. x Analysis Dil. Fac.


Marcus Hueppe
Laboratory Director



QA/QC Summary



Atmospheric Analysis & Consulting, Inc.

Quality Control/Quality Assurance Report ASTM D-5504

Date Analyzed: 06/07/13
Analyst: DH

Instrument ID: SCD#10
Calb. Date: 5/14/2013

Opening Calibration Verification Standard

	Resp. (area)	Result (ppbV)	% Rec *	% RPD ****
Initial	16509	490	97.9	NA
Duplicate	16970	503	100.7	2.8
Triplicate	16873	500	100.1	2.2

Method Blank

Analyte	Result
H2S	ND

Matrix Spike & Duplicate

Sample ID 130679-63353

Analyte	Sample Conc.	Spike Added	MS Result	MSD Result	MS % Rec **	MSD % Rec **	% RPD ***
H2S	0	250	230	237	92.0	94.7	2.9

Duplicate Analysis

Sample ID 130679-63353

Analyte	Sample Result	Duplicate Result	Mean	% RPD ***
H2S	0	0	0	0.0

Closing Calibration Verification Standard

Analyte	Std. Conc.	Result	%Recovery **
H2S	500	497.9	99.6

* Must be 95-105%

** Must be 90-110%

*** Must be < 10%

**** must be < 5% RPD from Initial result.



 Marcus Hueppe
 Laboratory Director



Calibration Summary

Analysis Date: 5/14/2013

Analyst: DH/MH

Units: ppbv

SCAQMD 307.91 / ASTM D-5504 INITIAL CALIBRATION SUMMARY

CALIBRATION CURVE RAW DATA:

Standard Concentration (ppbv)	Retention time (min)	Response (Area)	RPD from initial result (< 5%)	Std Deviation	Standard Concentration	Mean Response (Area)	Calculated Concentration (From Mean)	Mean % Recovery (+/- 5%)
0.0	0.00	0	0.0	0	0.0	0	0.0	0.0
0.0	0.00	0	0.0	0	0.0	0	0.0	0.0
25.0	2.096	836	0.0					
25.0	2.094	855	2.2	12	25.0	842	25.0	99.9
25.0	2.093	834	0.2					
100.0	2.091	3222						
100.0	2.090	3374	4.6	82	100.0	3316	98.4	98.4
100.0	2.091	3353	4.0					
500.0	2.091	17233						
500.0	2.090	17453	1.3	272	500.0	17486	518.6	103.7
500.0	2.089	17773	3.1					
2500.0	2.087	85533						
2500.0	2.088	83551	2.3	182	2500.0	84170	2496.3	99.9
2500.0	2.087	83425	2.5					
Avg. Ret.	2.091							

Calibration Verification Check Standards:
Check Standard Concentration: 500 ppbv

	Resp. (area)	Result (ppbv)	% Rec *	% RPD
Initial	17273	512.3	102.5	NA
Duplicate	17117	507.7	101.5	0.9
Triplicate	17378	515.4	103.1	0.6

* All CVs must have +/- 5% Recovery and < 5% RPD from Initial result.

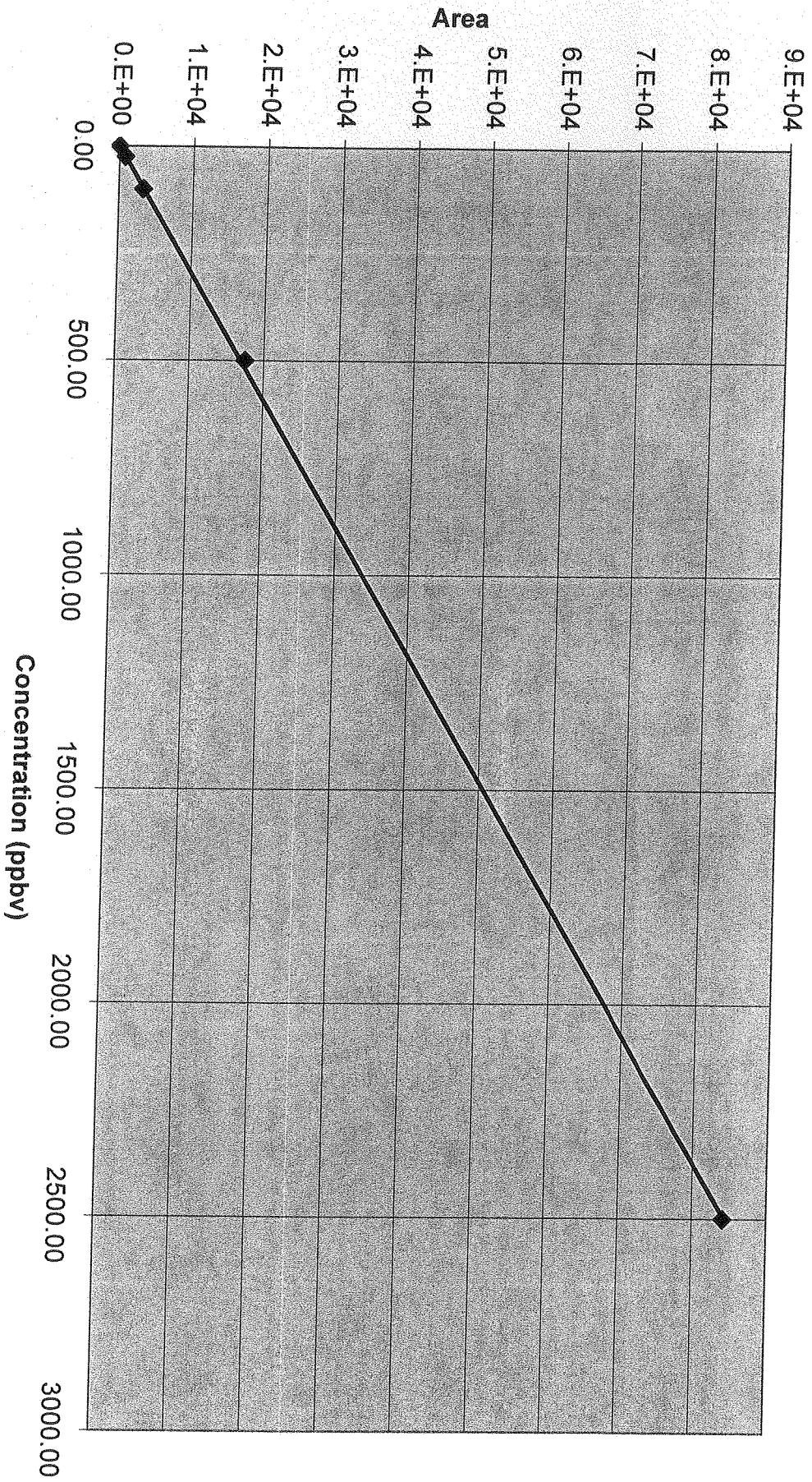
Linear Slope: X = Y/
R2 value: 0.9999 Must be > 0.990

Laboratory Director (signature/date)
 5/14/13

SCAQMD 307.91/ASTM D-5504 INITIAL CALIBRATION SUMMARY

Area (mean) vs. Conc. (theor)

$Y = 33.7172X$
 $R^2 = 0.9999$



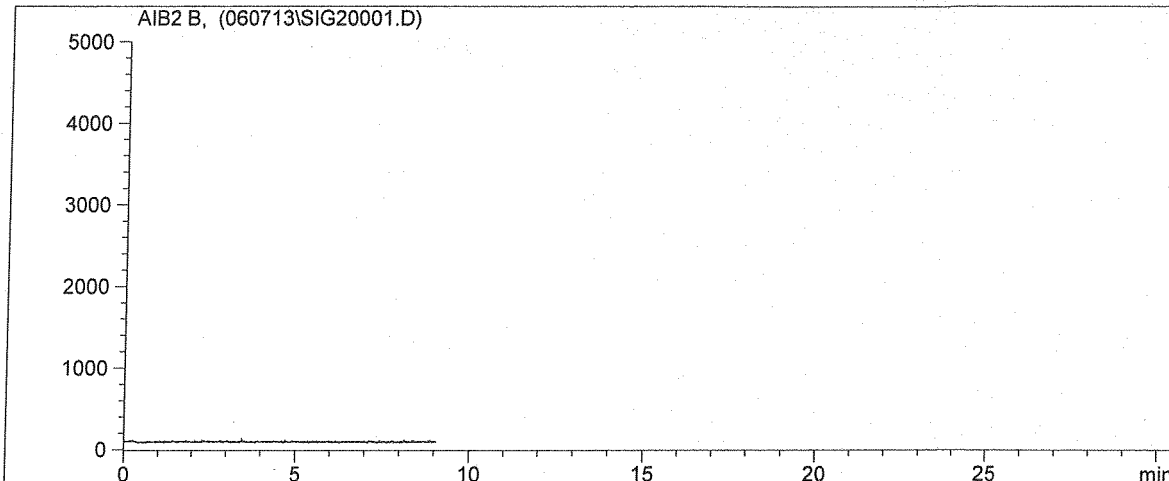
Raw Data

=====

Customized Report: D5504

```

Injection Date : 6/7/2013 6:06:12 AM          Seq. Line : 1
Sample Name    : System Blank                  Inj. Vol.  :Manually
Multiplier    : 1.00
Dilution      : 1.00
Acq Operator   : DH
Acq. Instrument : GC/SCD #10
Acq. Method    : ASTM5504.M
Analysis Method : C:\HPCHEM\1\METHODS\D051413.M
    
```



Uncalibrated Peaks : using compound H2S

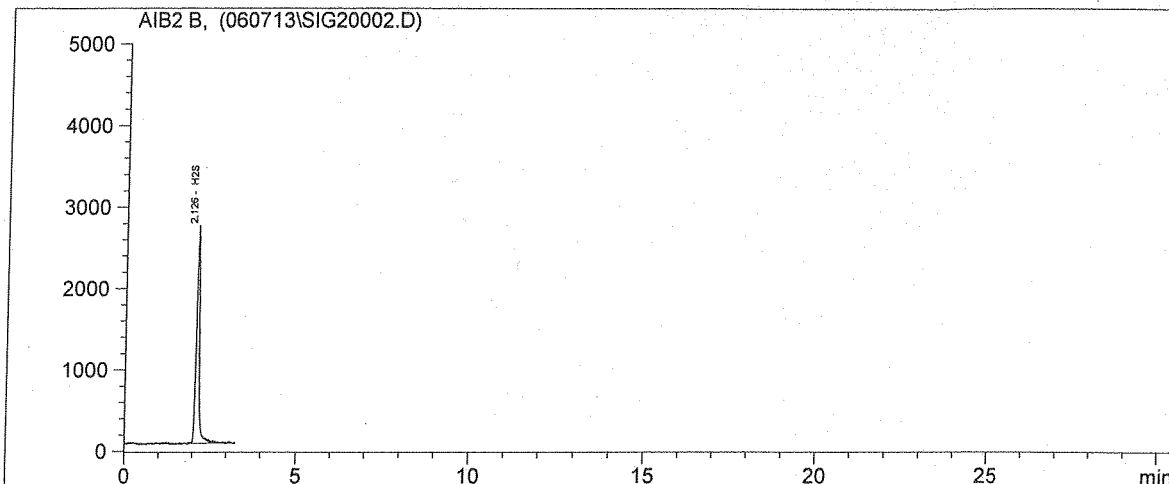
Ret Time [min]	Area	Amount [ppbV]	Name
0.000	0	0.000	H2S
0.000	0	0.000	COS
0.000	0	0.000	Methyl Mercaptan
0.000	0	0.000	Ethyl Mercaptan
0.000	0	0.000	Dimethyl Sulfide
0.000	0	0.000	Carbon Disulfide
0.000	0	0.000	Iso-propyl Mercaptan
0.000	0	0.000	Tert-butyl Mercaptan
0.000	0	0.000	N-propyl Mercaptan
0.000	0	0.000	Ethyl Methyl Sulfide
0.000	0	0.000	Sec-butyl Mercaptan
0.000	0	0.000	Thiophene
0.000	0	0.000	Iso-butyl Mercaptan
0.000	0	0.000	Diethyl Sulfide
0.000	0	0.000	N-butyl Mercaptan
0.000	0	0.000	Dimethyl Disulfide
0.000	0	0.000	2-Methylthiophene
0.000	0	0.000	3-Methylthiophene
0.000	0	0.000	Tetrahydrothiophene
0.000	0	0.000	n-Pentyl Mercaptan
0.000	0	0.000	2-Ethylthiophene
0.000	0	0.000	2,5-Dimethylthiophene
0.000	0	0.000	Diethyl Disulfide
0.000	0	0.000	n-Hexyl Mercaptan
0.000	0	0.000	2-Propylthiophene
0.000	0	0.000	Dimethyl Trisulfide
0.000	0	0.000	n-Heptyl Mercaptan
0.000	0	0.000	2-Butylthiophene
0.000	0	0.000	Dipropyl Disulfide
0.000	0	0.000	n-Octyl Mercaptan
0.000	0	0.000	Dipropyl Trisulfide

Totals: 0.000

*** End of Report ***

Handwritten signature
6/7/13

Injection Date : 6/7/2013 6:15:57 AM Seq. Line : 2
Sample Name : CCV 500ppbV SS0677 ->Inj. Vol. : Manually
Multiplier : 1.00
Dilution : 1.00
Acq Operator : DH
Acq. Instrument : GC/SCD #10
Acq. Method : ASTM5504.M
Analysis Method : C:\HPCHEM\1\METHODS\D051413.M



Uncalibrated Peaks : using compound H2S

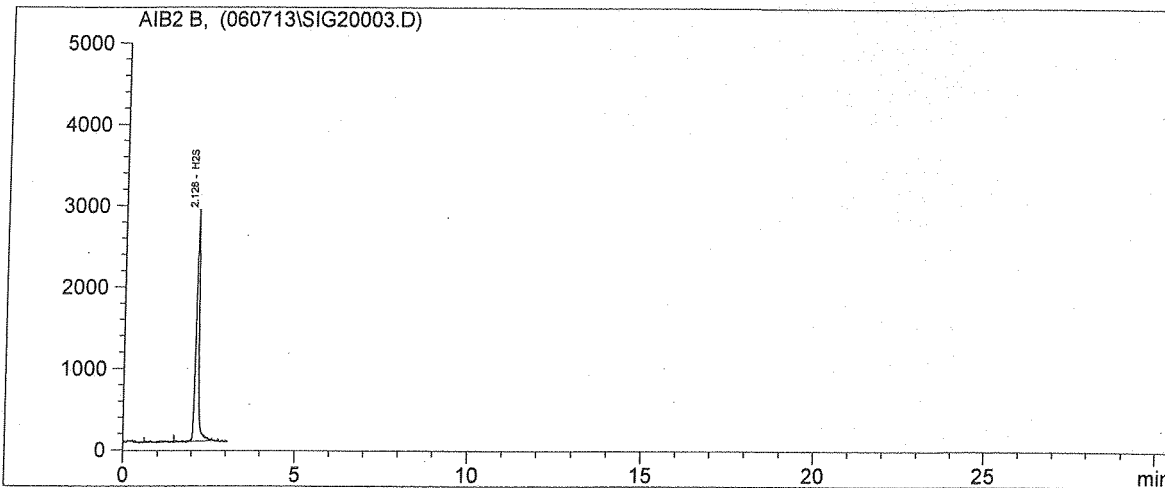
Table with 4 columns: Ret Time [min], Area, Amount [ppbV], and Name. It lists various sulfur compounds such as COS, Methyl Mercaptan, Ethyl Mercaptan, Dimethyl Sulfide, Carbon Disulfide, and others, all with an amount of 0.000 except for H2S which has an amount of 489.622.

Totals: 489.622

*** End of Report ***

Handwritten signature and date '6/7/13' in the bottom right corner.

Injection Date : 6/7/2013 6:20:42 AM Seq. Line : 3
 Sample Name : CCV 500ppbV dp SS0677 ->Inj. Vol. : Manually
 Multiplier : 1.00
 Dilution : 1.00
 Acq Operator : DH
 Acq. Instrument : GC/SCD #10
 Acq. Method : ASTM5504.M
 Analysis Method : C:\HPCHEM\1\METHODS\D051413.M



Uncalibrated Peaks : using compound H2S

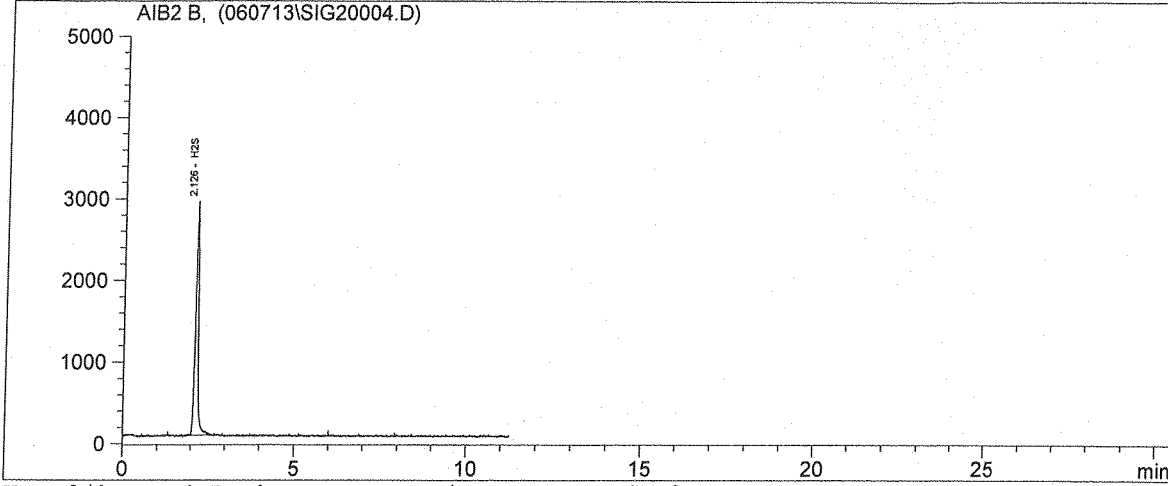
Ret Time [min]	Area	Amount [ppbV]	Name
2.128	16970	503.292	H2S
0.000	0	0.000	COS
0.000	0	0.000	Methyl Mercaptan
0.000	0	0.000	Ethyl Mercaptan
0.000	0	0.000	Dimethyl Sulfide
0.000	0	0.000	Carbon Disulfide
0.000	0	0.000	Iso-propyl Mercaptan
0.000	0	0.000	Tert-butyl Mercaptan
0.000	0	0.000	N-propyl Mercaptan
0.000	0	0.000	Ethyl Methyl Sulfide
0.000	0	0.000	Sec-butyl Mercaptan
0.000	0	0.000	Thiophene
0.000	0	0.000	Iso-butyl Mercaptan
0.000	0	0.000	Diethyl Sulfide
0.000	0	0.000	N-butyl Mercaptan
0.000	0	0.000	Dimethyl Disulfide
0.000	0	0.000	2-Methylthiophene
0.000	0	0.000	3-Methylthiophene
0.000	0	0.000	Tetrahydrothiophene
0.000	0	0.000	n-Pentyl Mercaptan
0.000	0	0.000	2-Ethylthiophene
0.000	0	0.000	2,5-Dimethylthiophene
0.000	0	0.000	Diethyl Disulfide
0.000	0	0.000	n-Hexyl Mercaptan
0.000	0	0.000	2-Propylthiophene
0.000	0	0.000	Dimethyl Trisulfide
0.000	0	0.000	n-Heptyl Mercaptan
0.000	0	0.000	2-Butylthiophene
0.000	0	0.000	Dipropyl Disulfide
0.000	0	0.000	n-Octyl Mercaptan
0.000	0	0.000	Dipropyl Trisulfide

Totals: 503.292

*** End of Report ***

MW
6/7/13

Injection Date : 6/7/2013 6:24:34 AM Seq. Line : 4
Sample Name : CCV 500ppbV tp SS0677 ->Inj. Vol. :Manually
Multiplier : 1.00
Dilution : 1.00
Acq Operator : DH
Acq. Instrument : GC/SCD #10
Acq. Method : ASTM5504.M
Analysis Method : C:\HPCHEM\1\METHODS\D051413.M



Uncalibrated Peaks : using compound H2S

Ret Time Area Amount Name
[min] [ppbV]

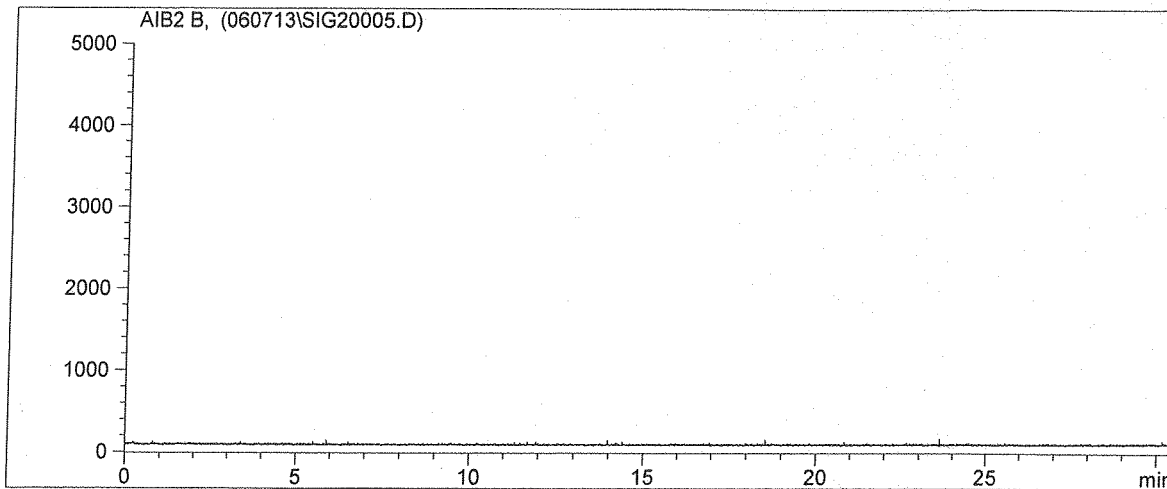
Ret Time [min]	Area	Amount [ppbV]	Name
2.126	16873	500.414	H2S
0.000	0	0.000	COS
0.000	0	0.000	Methyl Mercaptan
0.000	0	0.000	Ethyl Mercaptan
0.000	0	0.000	Dimethyl Sulfide
0.000	0	0.000	Carbon Disulfide
0.000	0	0.000	Iso-propyl Mercaptan
0.000	0	0.000	Tert-butyl Mercaptan
0.000	0	0.000	N-propyl Mercaptan
0.000	0	0.000	Ethyl Methyl Sulfide
0.000	0	0.000	Sec-butyl Mercaptan
0.000	0	0.000	Thiophene
0.000	0	0.000	Iso-butyl Mercaptan
0.000	0	0.000	Diethyl Sulfide
0.000	0	0.000	N-butyl Mercaptan
0.000	0	0.000	Dimethyl Disulfide
0.000	0	0.000	2-Methylthiophene
0.000	0	0.000	3-Methylthiophene
0.000	0	0.000	Tetrahydrothiophene
0.000	0	0.000	n-Pentyl Mercaptan
0.000	0	0.000	2-Ethylthiophene
0.000	0	0.000	2,5-Dimethylthiophene
0.000	0	0.000	Diethyl Disulfide
0.000	0	0.000	n-Hexyl Mercaptan
0.000	0	0.000	2-Propylthiophene
0.000	0	0.000	Dimethyl Trisulfide
0.000	0	0.000	n-Heptyl Mercaptan
0.000	0	0.000	2-Butylthiophene
0.000	0	0.000	Dipropyl Disulfide
0.000	0	0.000	n-Octyl Mercaptan
0.000	0	0.000	Dipropyl Trisulfide

Totals: 500.414

*** End of Report ***

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6/7/13

Injection Date : 6/7/2013 6:39:42 AM Seq. Line : 5
 Sample Name : Method Blank Inj. Vol. : Manually
 Multiplier : 1.00
 Dilution : 1.00
 Acq Operator : DH
 Acq. Instrument : GC/SCD #10
 Acq. Method : ASTM5504.M
 Analysis Method : C:\HPCHEM\1\METHODS\D051413.M



Uncalibrated Peaks : using compound H2S

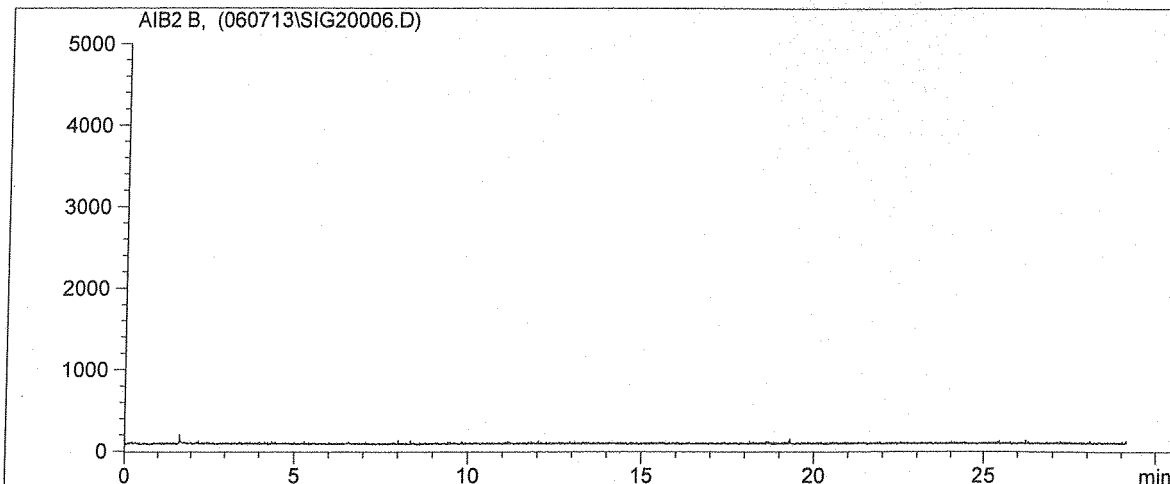
Ret Time [min]	Area	Amount [ppbV]	Name
0.000	0	0.000	H2S
0.000	0	0.000	COS
0.000	0	0.000	Methyl Mercaptan
0.000	0	0.000	Ethyl Mercaptan
0.000	0	0.000	Dimethyl Sulfide
0.000	0	0.000	Carbon Disulfide
0.000	0	0.000	Iso-propyl Mercaptan
0.000	0	0.000	Tert-butyl Mercaptan
0.000	0	0.000	N-propyl Mercaptan
0.000	0	0.000	Ethyl Methyl Sulfide
0.000	0	0.000	Sec-butyl Mercaptan
0.000	0	0.000	Thiophene
0.000	0	0.000	Iso-butyl Mercaptan
0.000	0	0.000	Diethyl Sulfide
0.000	0	0.000	N-butyl Mercaptan
0.000	0	0.000	Dimethyl Disulfide
0.000	0	0.000	2-Methylthiophene
0.000	0	0.000	3-Methylthiophene
0.000	0	0.000	Tetrahydrothiophene
0.000	0	0.000	n-Pentyl Mercaptan
0.000	0	0.000	2-Ethylthiophene
0.000	0	0.000	2,5-Dimethylthiophene
0.000	0	0.000	Diethyl Disulfide
0.000	0	0.000	n-Hexyl Mercaptan
0.000	0	0.000	2-Propylthiophene
0.000	0	0.000	Dimethyl Trisulfide
0.000	0	0.000	n-Heptyl Mercaptan
0.000	0	0.000	2-Butylthiophene
0.000	0	0.000	Dipropyl Disulfide
0.000	0	0.000	n-Octyl Mercaptan
0.000	0	0.000	Dipropyl Trisulfide

Totals: 0.000

*** End of Report ***

Handwritten signature and date: 6/7/13

Injection Date : 6/7/2013 7:13:46 AM Seq. Line : 6
 Sample Name : 130679-63353 Inj. Vol. : Manually
 Multiplier : 1.00
 Dilution : 1.00
 Acq Operator : DH
 Acq. Instrument : GC/SCD #10
 Acq. Method : ASTM5504.M
 Analysis Method : C:\HPCHEM\1\METHODS\D051413.M



Uncalibrated Peaks : using compound H2S

Ret Time [min]	Area	Amount [ppbV]	Name
0.000	0	0.000	H2S
0.000	0	0.000	COS
0.000	0	0.000	Methyl Mercaptan
0.000	0	0.000	Ethyl Mercaptan
0.000	0	0.000	Dimethyl Sulfide
0.000	0	0.000	Carbon Disulfide
0.000	0	0.000	Iso-propyl Mercaptan
0.000	0	0.000	Tert-butyl Mercaptan
0.000	0	0.000	N-propyl Mercaptan
0.000	0	0.000	Ethyl Methyl Sulfide
0.000	0	0.000	Sec-butyl Mercaptan
0.000	0	0.000	Thiophene
0.000	0	0.000	Iso-butyl Mercaptan
0.000	0	0.000	Diethyl Sulfide
0.000	0	0.000	N-butyl Mercaptan
0.000	0	0.000	Dimethyl Disulfide
0.000	0	0.000	2-Methylthiophene
0.000	0	0.000	3-Methylthiophene
0.000	0	0.000	Tetrahydrothiophene
0.000	0	0.000	n-Pentyl Mercaptan
0.000	0	0.000	2-Ethylthiophene
0.000	0	0.000	2,5-Dimethylthiophene
0.000	0	0.000	Diethyl Disulfide
0.000	0	0.000	n-Hexyl Mercaptan
0.000	0	0.000	2-Propylthiophene
0.000	0	0.000	Dimethyl Trisulfide
0.000	0	0.000	n-Heptyl Mercaptan
0.000	0	0.000	2-Butylthiophene
0.000	0	0.000	Dipropyl Disulfide
0.000	0	0.000	n-Octyl Mercaptan
0.000	0	0.000	Dipropyl Trisulfide

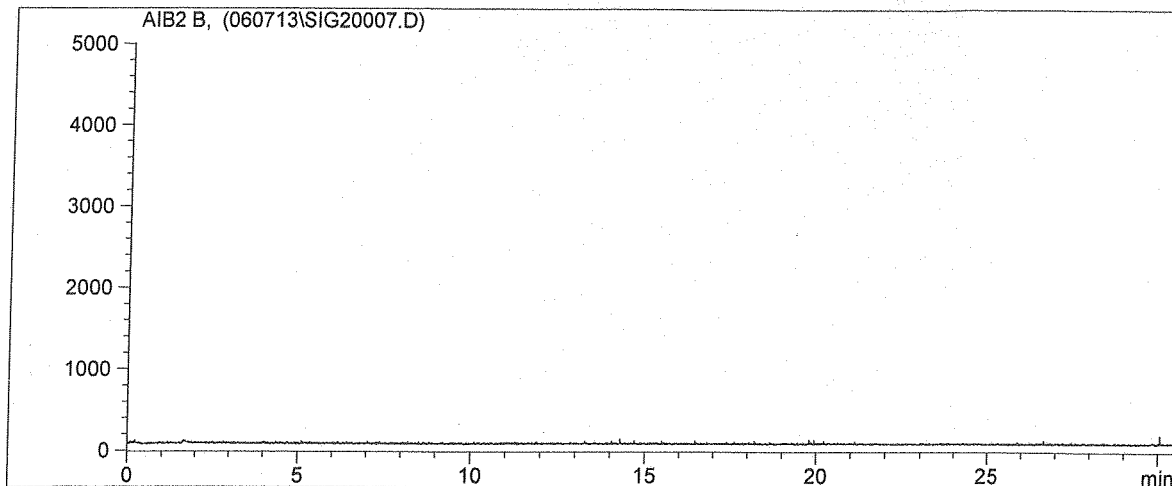
Totals: 0.000

*** End of Report ***

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6/7/13

Injection Date : 6/7/2013 7:46:56 AM
Sample Name : 130679-63353 dp
Multiplier : 1.00
Dilution : 1.00
Acq Operator : DH
Acq. Instrument : GC/SCD #10
Acq. Method : ASTM5504.M
Analysis Method : C:\HPCHEM\1\METHODS\D051413.M

Seq. Line : 7
->Inj. Vol. : Manually



Uncalibrated Peaks : using compound H2S

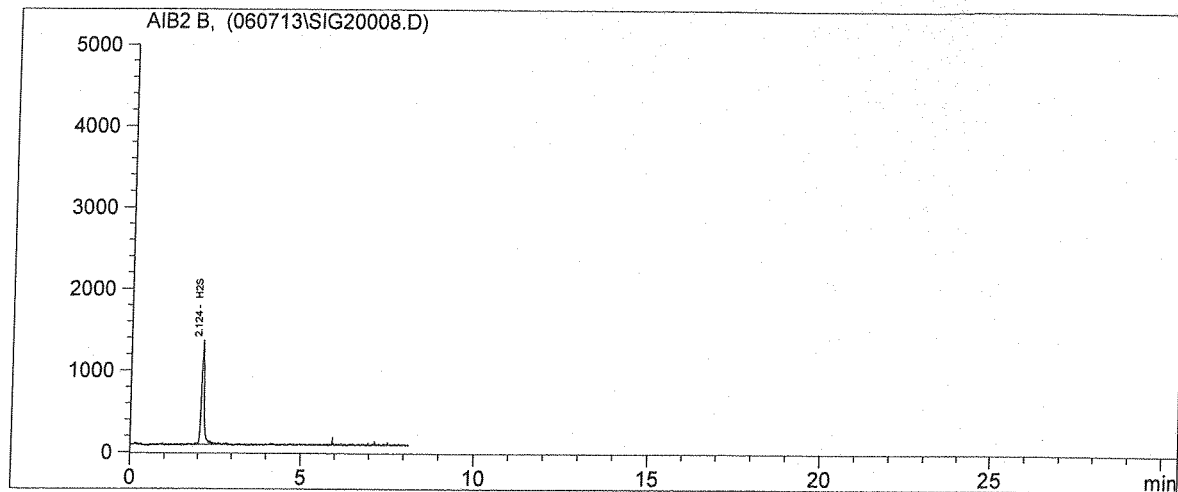
Ret Time [min]	Area	Amount [ppbV]	Name
0.000	0	0.000	H2S
0.000	0	0.000	COS
0.000	0	0.000	Methyl Mercaptan
0.000	0	0.000	Ethyl Mercaptan
0.000	0	0.000	Dimethyl Sulfide
0.000	0	0.000	Carbon Disulfide
0.000	0	0.000	Iso-propyl Mercaptan
0.000	0	0.000	Tert-butyl Mercaptan
0.000	0	0.000	N-propyl Mercaptan
0.000	0	0.000	Ethyl Methyl Sulfide
0.000	0	0.000	Sec-butyl Mercaptan
0.000	0	0.000	Thiophene
0.000	0	0.000	Iso-butyl Mercaptan
0.000	0	0.000	Diethyl Sulfide
0.000	0	0.000	N-butyl Mercaptan
0.000	0	0.000	Dimethyl Disulfide
0.000	0	0.000	2-Methylthiophene
0.000	0	0.000	3-Methylthiophene
0.000	0	0.000	Tetrahydrothiophene
0.000	0	0.000	n-Pentyl Mercaptan
0.000	0	0.000	2-Ethylthiophene
0.000	0	0.000	2,5-Dimethylthiophene
0.000	0	0.000	Diethyl Disulfide
0.000	0	0.000	n-Hexyl Mercaptan
0.000	0	0.000	2-Propylthiophene
0.000	0	0.000	Dimethyl Trisulfide
0.000	0	0.000	n-Heptyl Mercaptan
0.000	0	0.000	2-Butylthiophene
0.000	0	0.000	Dipropyl Disulfide
0.000	0	0.000	n-Octyl Mercaptan
0.000	0	0.000	Dipropyl Trisulfide

Totals: 0.000

*** End of Report ***

Handwritten initials and date:
iM
6/7/13

Injection Date : 6/7/2013 8:32:00 AM Seq. Line : 8
Sample Name : MS 63353 SS0677 ->Inj. Vol. : Manually
Multiplier : 1.00
Dilution : 1.00
Acq Operator : DH
Acq. Instrument : GC/SCD #10
Acq. Method : ASTM5504.M
Analysis Method : C:\HPCHEM\1\METHODS\D051413.M



Uncalibrated Peaks : using compound H2S

Ret Time [min]	Area	Amount [ppbV]	Name
2.124	7756	230.028	H2S
0.000	0	0.000	COS
0.000	0	0.000	Methyl Mercaptan
0.000	0	0.000	Ethyl Mercaptan
0.000	0	0.000	Dimethyl Sulfide
0.000	0	0.000	Carbon Disulfide
0.000	0	0.000	Iso-propyl Mercaptan
0.000	0	0.000	Tert-butyl Mercaptan
0.000	0	0.000	N-propyl Mercaptan
0.000	0	0.000	Ethyl Methyl Sulfide
0.000	0	0.000	Sec-butyl Mercaptan
0.000	0	0.000	Thiophene
0.000	0	0.000	Iso-butyl Mercaptan
0.000	0	0.000	Diethyl Sulfide
0.000	0	0.000	N-butyl Mercaptan
0.000	0	0.000	Dimethyl Disulfide
0.000	0	0.000	2-Methylthiophene
0.000	0	0.000	3-Methylthiophene
0.000	0	0.000	Tetrahydrothiophene
0.000	0	0.000	n-Pentyl Mercaptan
0.000	0	0.000	2-Ethylthiophene
0.000	0	0.000	2,5-Dimethylthiophene
0.000	0	0.000	Diethyl Disulfide
0.000	0	0.000	n-Hexyl Mercaptan
0.000	0	0.000	2-Propylthiophene
0.000	0	0.000	Dimethyl Trisulfide
0.000	0	0.000	n-Heptyl Mercaptan
0.000	0	0.000	2-Butylthiophene
0.000	0	0.000	Dipropyl Disulfide
0.000	0	0.000	n-Octyl Mercaptan
0.000	0	0.000	Dipropyl Trisulfide

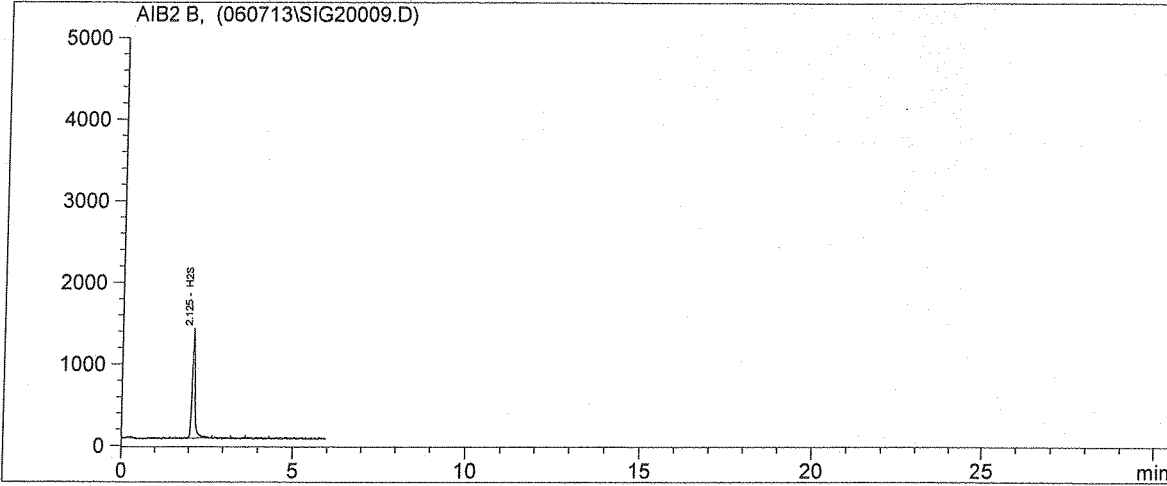
Totals: 230.028

*** End of Report ***

MD
6/7/13

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 Customized Report: D5504

Injection Date : 6/7/2013 8:41:21 AM Seq. Line : 9
 Sample Name : MSD 63353 SS0677 ->Inj. Vol. : Manually
 Multiplier : 1.00
 Dilution : 1.00
 Acq Operator : DH
 Acq. Instrument : GC/SCD #10
 Acq. Method : ASTM5504.M
 Analysis Method : C:\HPCHEM\1\METHODS\D051413.M



Uncalibrated Peaks : using compound H2S

Ret Time [min]	Area	Amount [ppbV]	Name
2.125	7981	236.718	H2S
0.000	0	0.000	COS
0.000	0	0.000	Methyl Mercaptan
0.000	0	0.000	Ethyl Mercaptan
0.000	0	0.000	Dimethyl Sulfide
0.000	0	0.000	Carbon Disulfide
0.000	0	0.000	Iso-propyl Mercaptan
0.000	0	0.000	Tert-butyl Mercaptan
0.000	0	0.000	N-propyl Mercaptan
0.000	0	0.000	Ethyl Methyl Sulfide
0.000	0	0.000	Sec-butyl Mercaptan
0.000	0	0.000	Thiophene
0.000	0	0.000	Iso-butyl Mercaptan
0.000	0	0.000	Diethyl Sulfide
0.000	0	0.000	N-butyl Mercaptan
0.000	0	0.000	Dimethyl Disulfide
0.000	0	0.000	2-Methylthiophene
0.000	0	0.000	3-Methylthiophene
0.000	0	0.000	Tetrahydrothiophene
0.000	0	0.000	n-Pentyl Mercaptan
0.000	0	0.000	2-Ethylthiophene
0.000	0	0.000	2,5-Dimethylthiophene
0.000	0	0.000	Diethyl Disulfide
0.000	0	0.000	n-Hexyl Mercaptan
0.000	0	0.000	2-Propylthiophene
0.000	0	0.000	Dimethyl Trisulfide
0.000	0	0.000	n-Heptyl Mercaptan
0.000	0	0.000	2-Butylthiophene
0.000	0	0.000	Dipropyl Disulfide
0.000	0	0.000	n-Octyl Mercaptan
0.000	0	0.000	Dipropyl Trisulfide

Totals: 236.718

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 *** End of Report ***

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 6/7/13

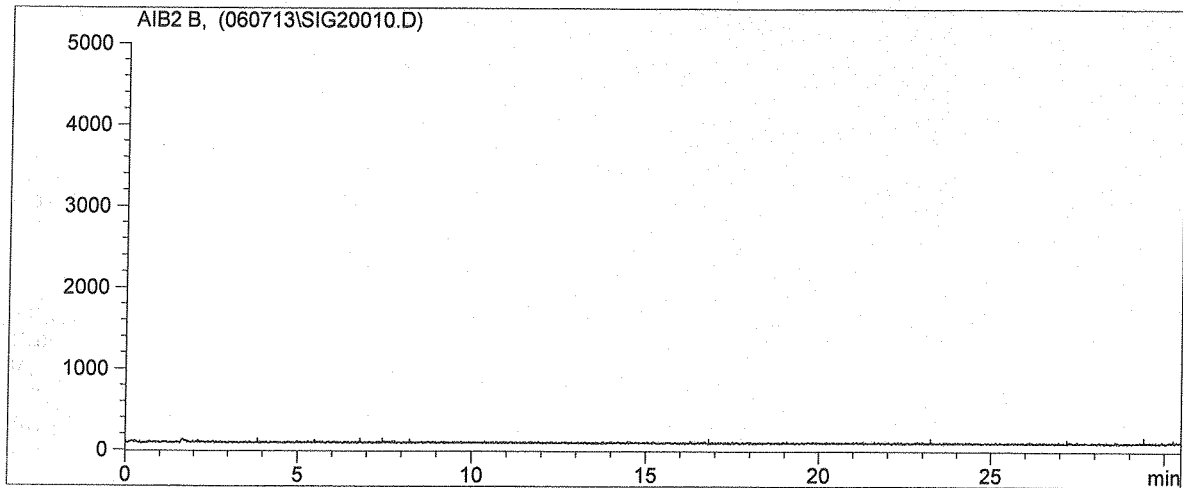
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Customized Report: D5504

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Injection Date   : 6/7/2013 8:49:12 AM
Sample Name     : 130679-63354
Multiplier      : 1.00
Dilution       : 1.00
Acq Operator    : DH
Acq. Instrument : GC/SCD #10
Acq. Method     : ASTM5504.M
Analysis Method : C:\HPCHEM\1\METHODS\D051413.M
  
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Seq. Line   : 10
Inj. Vol.   : Manually
  
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Uncalibrated Peaks   : using compound H2S
  
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Ret Time [min]	Area	Amount [ppbV]	Name
0.000	0	0.000	H2S
0.000	0	0.000	COS
0.000	0	0.000	Methyl Mercaptan
0.000	0	0.000	Ethyl Mercaptan
0.000	0	0.000	Dimethyl Sulfide
0.000	0	0.000	Carbon Disulfide
0.000	0	0.000	Iso-propyl Mercaptan
0.000	0	0.000	Tert-butyl Mercaptan
0.000	0	0.000	N-propyl Mercaptan
0.000	0	0.000	Ethyl Methyl Sulfide
0.000	0	0.000	Sec-butyl Mercaptan
0.000	0	0.000	Thiophene
0.000	0	0.000	Iso-butyl Mercaptan
0.000	0	0.000	Diethyl Sulfide
0.000	0	0.000	N-butyl Mercaptan
0.000	0	0.000	Dimethyl Disulfide
0.000	0	0.000	2-Methylthiophene
0.000	0	0.000	3-Methylthiophene
0.000	0	0.000	Tetrahydrothiophene
0.000	0	0.000	n-Pentyl Mercaptan
0.000	0	0.000	2-Ethylthiophene
0.000	0	0.000	2,5-Dimethylthiophene
0.000	0	0.000	Diethyl Disulfide
0.000	0	0.000	n-Hexyl Mercaptan
0.000	0	0.000	2-Propylthiophene
0.000	0	0.000	Dimethyl Trisulfide
0.000	0	0.000	n-Heptyl Mercaptan
0.000	0	0.000	2-Butylthiophene
0.000	0	0.000	Dipropyl Disulfide
0.000	0	0.000	n-Octyl Mercaptan
0.000	0	0.000	Dipropyl Trisulfide

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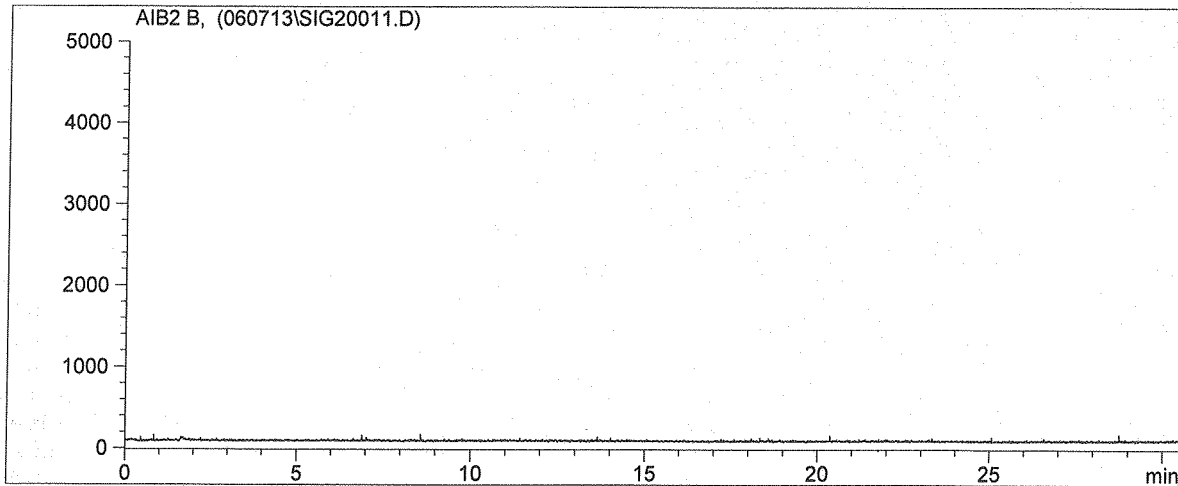
Totals: 0.000
  
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*** End of Report ***
  
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Customized Report: D5504

Injection Date : 6/7/2013 9:33:31 AM Seq. Line : 11
Sample Name : 130679-63354 dp ->Inj. Vol. : Manually
Multiplier : 1.00
Dilution : 1.00
Acq Operator : DH
Acq. Instrument : GC/SCD #10
Acq. Method : ASTM5504.M
Analysis Method : C:\HPCHEM\1\METHODS\D051413.M



Uncalibrated Peaks : using compound H2S

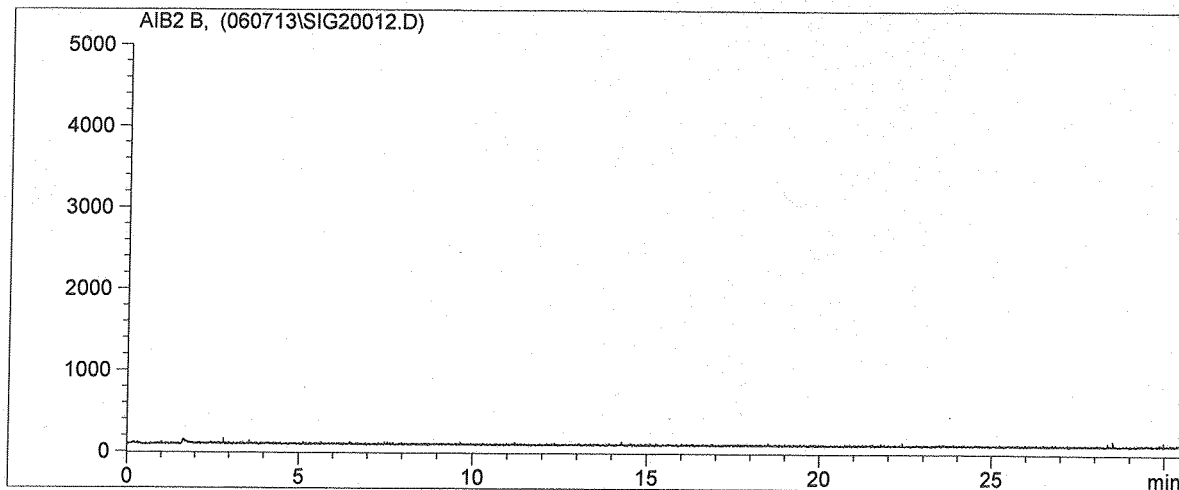
Ret Time [min]	Area	Amount [ppbV]	Name
0.000	0	0.000	H2S
0.000	0	0.000	COS
0.000	0	0.000	Methyl Mercaptan
0.000	0	0.000	Ethyl Mercaptan
0.000	0	0.000	Dimethyl Sulfide
0.000	0	0.000	Carbon Disulfide
0.000	0	0.000	Iso-propyl Mercaptan
0.000	0	0.000	Tert-butyl Mercaptan
0.000	0	0.000	N-propyl Mercaptan
0.000	0	0.000	Ethyl Methyl Sulfide
0.000	0	0.000	Sec-butyl Mercaptan
0.000	0	0.000	Thiophene
0.000	0	0.000	Iso-butyl Mercaptan
0.000	0	0.000	Diethyl Sulfide
0.000	0	0.000	N-butyl Mercaptan
0.000	0	0.000	Dimethyl Disulfide
0.000	0	0.000	2-Methylthiophene
0.000	0	0.000	3-Methylthiophene
0.000	0	0.000	Tetrahydrothiophene
0.000	0	0.000	n-Pentyl Mercaptan
0.000	0	0.000	2-Ethylthiophene
0.000	0	0.000	2,5-Dimethylthiophene
0.000	0	0.000	Diethyl Disulfide
0.000	0	0.000	n-Hexyl Mercaptan
0.000	0	0.000	2-Propylthiophene
0.000	0	0.000	Dimethyl Trisulfide
0.000	0	0.000	n-Heptyl Mercaptan
0.000	0	0.000	2-Butylthiophene
0.000	0	0.000	Dipropyl Disulfide
0.000	0	0.000	n-Octyl Mercaptan
0.000	0	0.000	Dipropyl Trisulfide

Totals: 0.000

*** End of Report ***

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Customized Report: D5504

Injection Date : 6/7/2013 10:08:28 AM Seq. Line : 12
 Sample Name : 130679-63355 Inj. Vol. : Manually
 Multiplier : 1.00
 Dilution : 1.00
 Acq Operator : DH
 Acq. Instrument : GC/SCD #10
 Acq. Method : ASTM5504.M
 Analysis Method : C:\HPCHEM\1\METHODS\D051413.M



Un calibrated Peaks : using compound H2S

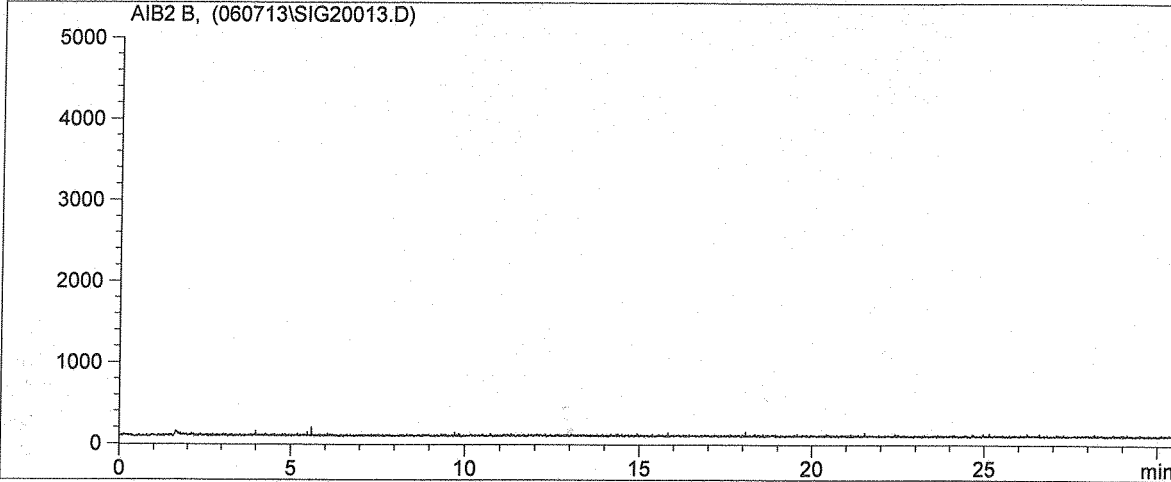
Ret Time [min]	Area	Amount [ppbV]	Name
0.000	0	0.000	H2S
0.000	0	0.000	COS
0.000	0	0.000	Methyl Mercaptan
0.000	0	0.000	Ethyl Mercaptan
0.000	0	0.000	Dimethyl Sulfide
0.000	0	0.000	Carbon Disulfide
0.000	0	0.000	Iso-propyl Mercaptan
0.000	0	0.000	Tert-butyl Mercaptan
0.000	0	0.000	N-propyl Mercaptan
0.000	0	0.000	Ethyl Methyl Sulfide
0.000	0	0.000	Sec-butyl Mercaptan
0.000	0	0.000	Thiophene
0.000	0	0.000	Iso-butyl Mercaptan
0.000	0	0.000	Diethyl Sulfide
0.000	0	0.000	N-butyl Mercaptan
0.000	0	0.000	Dimethyl Disulfide
0.000	0	0.000	2-Methylthiophene
0.000	0	0.000	3-Methylthiophene
0.000	0	0.000	Tetrahydrothiophene
0.000	0	0.000	n-Pentyl Mercaptan
0.000	0	0.000	2-Ethylthiophene
0.000	0	0.000	2,5-Dimethylthiophene
0.000	0	0.000	Diethyl Disulfide
0.000	0	0.000	n-Hexyl Mercaptan
0.000	0	0.000	2-Propylthiophene
0.000	0	0.000	Dimethyl Trisulfide
0.000	0	0.000	n-Heptyl Mercaptan
0.000	0	0.000	2-Butylthiophene
0.000	0	0.000	Dipropyl Disulfide
0.000	0	0.000	n-Octyl Mercaptan
0.000	0	0.000	Dipropyl Trisulfide

Totals: 0.000

*** End of Report ***

Customized Report: D5504

Injection Date : 6/7/2013 10:43:32 AM Seq. Line : 13
Sample Name : 130679-63355 dp ->Inj. Vol. : Manually
Multiplier : 1.00
Dilution : 1.00
Acq Operator : DH
Acq. Instrument : GC/SCD #10
Acq. Method : ASTM5504.M
Analysis Method : C:\HPCHEM\1\METHODS\D051413.M



Uncalibrated Peaks : using compound H2S

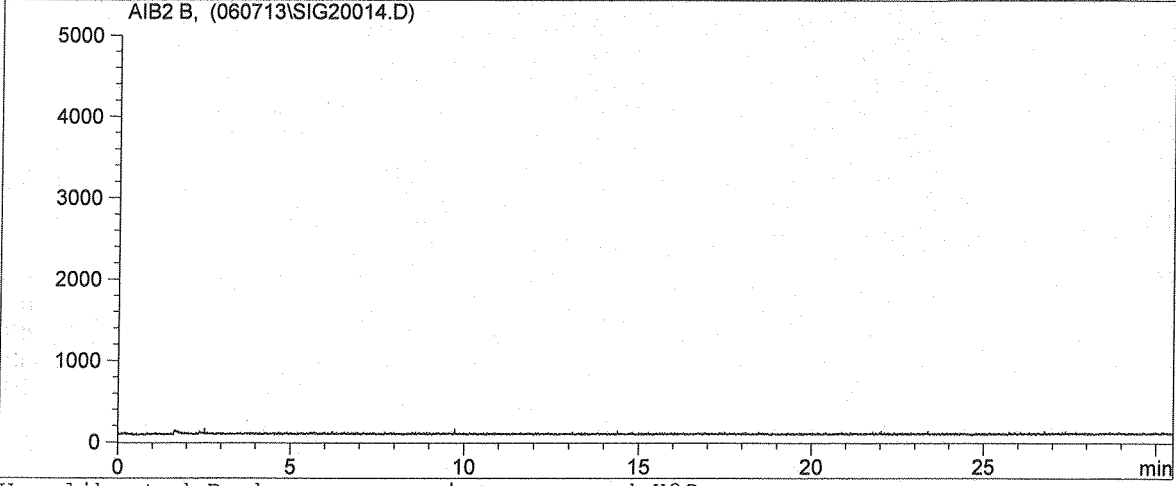
Ret Time [min]	Area	Amount [ppbV]	Name
0.000	0	0.000	H2S
0.000	0	0.000	COS
0.000	0	0.000	Methyl Mercaptan
0.000	0	0.000	Ethyl Mercaptan
0.000	0	0.000	Dimethyl Sulfide
0.000	0	0.000	Carbon Disulfide
0.000	0	0.000	Iso-propyl Mercaptan
0.000	0	0.000	Tert-butyl Mercaptan
0.000	0	0.000	N-propyl Mercaptan
0.000	0	0.000	Ethyl Methyl Sulfide
0.000	0	0.000	Sec-butyl Mercaptan
0.000	0	0.000	Thiophene
0.000	0	0.000	Iso-butyl Mercaptan
0.000	0	0.000	Diethyl Sulfide
0.000	0	0.000	N-butyl Mercaptan
0.000	0	0.000	Dimethyl Disulfide
0.000	0	0.000	2-Methylthiophene
0.000	0	0.000	3-Methylthiophene
0.000	0	0.000	Tetrahydrothiophene
0.000	0	0.000	n-Pentyl Mercaptan
0.000	0	0.000	2-Ethylthiophene
0.000	0	0.000	2,5-Dimethylthiophene
0.000	0	0.000	Diethyl Disulfide
0.000	0	0.000	n-Hexyl Mercaptan
0.000	0	0.000	2-Propylthiophene
0.000	0	0.000	Dimethyl Trisulfide
0.000	0	0.000	n-Heptyl Mercaptan
0.000	0	0.000	2-Butylthiophene
0.000	0	0.000	Dipropyl Disulfide
0.000	0	0.000	n-Octyl Mercaptan
0.000	0	0.000	Dipropyl Trisulfide

Totals: 0.000

*** End of Report ***

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 Customized Report: D5504

Injection Date : 6/7/2013 11:18:28 AM Seq. Line : 14
 Sample Name : 130679-63356 Inj. Vol. : Manually
 Multiplier : 1.00
 Dilution : 1.00
 Acq Operator : DH
 Acq. Instrument : GC/SCD #10
 Acq. Method : ASTM5504.M
 Analysis Method : C:\HPCHEM\1\METHODS\D051413.M



Uncalibrated Peaks : using compound H2S

Ret Time [min]	Area	Amount [ppbV]	Name
0.000	0	0.000	H2S
0.000	0	0.000	COS
0.000	0	0.000	Methyl Mercaptan
0.000	0	0.000	Ethyl Mercaptan
0.000	0	0.000	Dimethyl Sulfide
0.000	0	0.000	Carbon Disulfide
0.000	0	0.000	Iso-propyl Mercaptan
0.000	0	0.000	Tert-butyl Mercaptan
0.000	0	0.000	N-propyl Mercaptan
0.000	0	0.000	Ethyl Methyl Sulfide
0.000	0	0.000	Sec-butyl Mercaptan
0.000	0	0.000	Thiophene
0.000	0	0.000	Iso-butyl Mercaptan
0.000	0	0.000	Diethyl Sulfide
0.000	0	0.000	N-butyl Mercaptan
0.000	0	0.000	Dimethyl Disulfide
0.000	0	0.000	2-Methylthiophene
0.000	0	0.000	3-Methylthiophene
0.000	0	0.000	Tetrahydrothiophene
0.000	0	0.000	n-Pentyl Mercaptan
0.000	0	0.000	2-Ethylthiophene
0.000	0	0.000	2,5-Dimethylthiophene
0.000	0	0.000	Diethyl Disulfide
0.000	0	0.000	n-Hexyl Mercaptan
0.000	0	0.000	2-Propylthiophene
0.000	0	0.000	Dimethyl Trisulfide
0.000	0	0.000	n-Heptyl Mercaptan
0.000	0	0.000	2-Butylthiophene
0.000	0	0.000	Dipropyl Disulfide
0.000	0	0.000	n-Octyl Mercaptan
0.000	0	0.000	Dipropyl Trisulfide
Totals:		0.000	

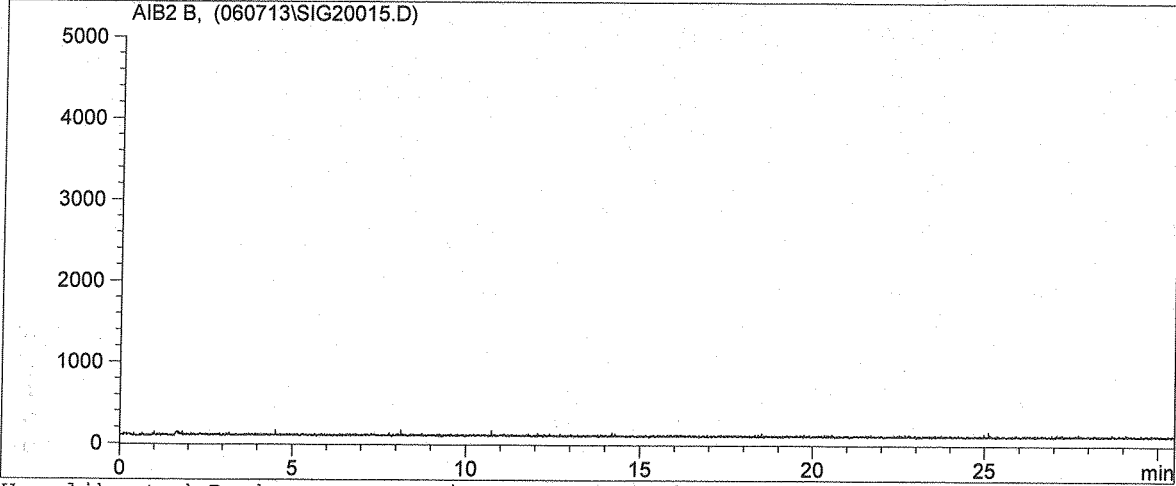
*** End of Report ***

DH 6/7/13

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 Customized Report: D5504
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Injection Date : 6/7/2013 11:52:39 AM           Seq. Line : 15
Sample Name    : 130679-63356 dp                ->Inj. Vol. :Manually
Multiplier    : 1.00
Dilution      : 1.00
Acq Operator   : DH
Acq. Instrument : GC/SCD #10
Acq. Method    : ASTM5504.M
Analysis Method : C:\HPCHEM\1\METHODS\D051413.M
    
```



Uncalibrated Peaks : using compound H2S

Ret Time [min]	Area	Amount [ppbV]	Name
0.000	0	0.000	H2S
0.000	0	0.000	COS
0.000	0	0.000	Methyl Mercaptan
0.000	0	0.000	Ethyl Mercaptan
0.000	0	0.000	Dimethyl Sulfide
0.000	0	0.000	Carbon Disulfide
0.000	0	0.000	Iso-propyl Mercaptan
0.000	0	0.000	Tert-butyl Mercaptan
0.000	0	0.000	N-propyl Mercaptan
0.000	0	0.000	Ethyl Methyl Sulfide
0.000	0	0.000	Sec-butyl Mercaptan
0.000	0	0.000	Thiophene
0.000	0	0.000	Iso-butyl Mercaptan
0.000	0	0.000	Diethyl Sulfide
0.000	0	0.000	N-butyl Mercaptan
0.000	0	0.000	Dimethyl Disulfide
0.000	0	0.000	2-Methylthiophene
0.000	0	0.000	3-Methylthiophene
0.000	0	0.000	Tetrahydrothiophene
0.000	0	0.000	n-Pentyl Mercaptan
0.000	0	0.000	2-Ethylthiophene
0.000	0	0.000	2,5-Dimethylthiophene
0.000	0	0.000	Diethyl Disulfide
0.000	0	0.000	n-Hexyl Mercaptan
0.000	0	0.000	2-Propylthiophene
0.000	0	0.000	Dimethyl Trisulfide
0.000	0	0.000	n-Heptyl Mercaptan
0.000	0	0.000	2-Butylthiophene
0.000	0	0.000	Dipropyl Disulfide
0.000	0	0.000	n-Octyl Mercaptan
0.000	0	0.000	Dipropyl Trisulfide

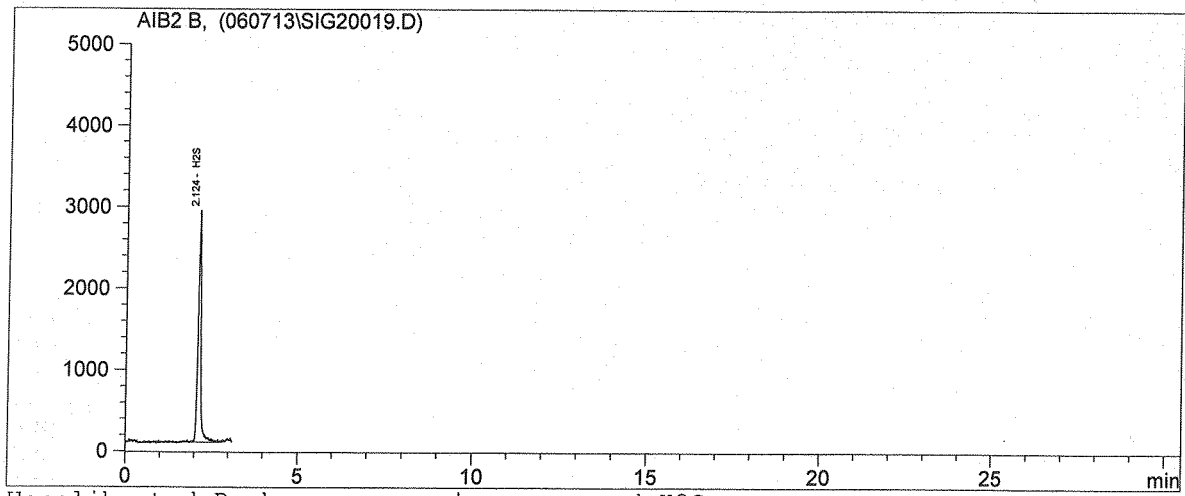
Totals: 0.000

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 *** End of Report ***
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Handwritten: DA 6/7/13

Customized Report: D5504

Injection Date : 6/7/2013 1:17:17 PM
Sample Name : CCV 500ppbV SS0677
Multiplier : 1.00
Dilution : 1.00
Acq Operator : DH
Acq. Instrument : GC/SCD #10
Acq. Method : ASTM5504.M
Analysis Method : C:\HPCHEM\1\METHODS\D051413.M



Uncalibrated Peaks : using compound H2S
Table with 4 columns: Ret Time [min], Area, Amount [ppbV], Name.
Peak 1: 2.124, 16789, 497.933, H2S.
Other peaks are 0.000 for various sulfur compounds.

Totals: 497.933

*** End of Report ***