Analytical Case File Review Checklist

Work Performed by: (EPA, EPA/ESAT, ESAT)
WO Number: 1201013 Dimock Report 2 of 3

Parameter Group: 1) SVOC
2)
3)

Analyst & Peer Reviewer: A) Gray Dill / Poff + Wilding
B)
C)

Item	Observation (Problems/Trends) Parameter Group & Analyst/Peer Reviewer as per codes above	Action (For this Case file/On-going)
Review of Completed Review Checklist for the Case:		
Data Verification (1st; 2nd level) as per QM	OK	
Technical peer review checklist completed with clear resolution of any issues	OK	
Unacceptable QC checks on-going (trends)?	OK	
Use of qualifier codes for QC issues (source and QC results) as per QM?	OK.	
Demonstrated Capabilities:		
Listed on QS Components Report Table	On Demand Analysis for all SVOA compounds.	
MDLs; DOCs; PTs approved	DOC MDL in prep	
MDLs; DOCs; PTs consistent with QL and target compounds reported.	DOC MDL in prep	
SOP current.	OK	
Problematic Compounds (if reported, ID checked and quantitation verified).	OK	
"On-Demand" (as per QM) procedures followed if not demonstrated capability.	Appears On Demand protocol only done for 2 compounds – 2-methylnaphthalene and 1-methylnaphthalene	All SVOA analyzed w/ On Demand protocol
TSAs/ External Assessment and Technical Sessions:		

not available, SCV for the 2 compounds

Item	Observation (Problems/Trends) Parameter Group & Analyst/Peer Reviewer as per codes above	Action (For this Case file/On-going)
Case file consistent with Findings/Corrective actions from last TSA/Ext. Assessment/Technical Session.	Items from 12/2011 TSA not closed-out as of yet.	
Case file consistent with Issues from Technical Sessions.	OK	
QS Implementation:		
Final Reports accurate & complete.	OK.	
SOPs & ref. methods identified.		
Manual Integrations as per R3-QA067.	MI form included.	Recommend noting which samples required MI on the form.
Batch QC as per QM.	OK	
Adherence to Calibration Evaluation Policy (QM).	OK	
Origin of calibration stds. verified.	OK	
Holding time met (Sample Submission Procedures) & preservation documented.	OK.	
Other Issues/Comments:		
Name and signature of reviewer:		Date: 02-15-12

Analytical Case File Review Checklist

Work Performed by: (EPA, EPA/ESAT, ESAT)
WO Number: 1201013 Dimock Report 2 of 3

Parameter Group: 1) Alcohols
2)
3)

Analyst & Peer Reviewer: A) Molnar / Slayton
B)
C)

Item	Observation (Problems/Trends) Parameter Group & Analyst/Peer Reviewer as per codes above	Action (For this Case file/On-going)
Review of Completed Review Checklist for the Case:		
Data Verification (1st; 2nd level) as per QM	OK	
Technical peer review checklist completed with clear resolution of any issues	Noted "Technical Holding Time" without ✓ for Y or N or comments	~~Corrected~~ completed
Unacceptable QC checks on-going (trends)?	OK	
Use of qualifier codes for QC issues (source and QC results) as per QM?	OK	
Demonstrated Capabilities:		
Listed on QS Components Report Table	OK.	
MDLs; DOCs; PTs approved	OK.	
MDLs; DOCs; PTs consistent with QL and target compounds reported.	OK.	
SOP current.	OK. RSOA203 013012	
Problematic Compounds (if reported, ID checked and quantitation verified).	OK.	
"On-Demand" (as per QM) procedures followed if not demonstrated capability.	Not On Demand analysis	
TSAs/ External Assessment and Technical Sessions:		

Item	Observation (Problems/Trends) Parameter Group & Analyst/Peer Reviewer as per codes above	Action (For this Case file/On-going)
Case file consistent with Findings/Corrective actions from last TSA/Ext. Assessment/Technical Session.	No TSA or Technical Session for Alcohols	
Case file consistent with Issues from Technical Sessions.	OK No Tech Iss on Alcohols	
QS Implementation:		
Final Reports accurate & complete.	OK	
SOPs & ref. methods identified.	OK	
Manual Integrations as per R3-QA067.	Manual integration Form used	Recommend stating on MI form which sample results required MI.
Batch QC as per QM.	OK	
Adherence to Calibration Evaluation Policy (QM).	OK	
Origin of calibration stds. verified.	OK	
Holding time met (Sample Submission Procedures) & preservation documented.	HT Section not complete	
Other Issues/Comments:		
Name and signature of reviewer:		Date: 02-15-12

Item	Observation (Problems/Trends) Parameter Group & Analyst/Peer Reviewer as per codes above	Action (For this Case file/On-going)
Case file consistent with Findings/Corrective actions from last TSA/Ext. Assessment/Technical Session.	OK	
Case file consistent with Issues from Technical Sessions.	OK	
QS Implementation:		
Final Reports accurate & complete.	OK Typo ("Volatile") noted in narrative	
SOPs & ref. methods identified.	OK	
Manual Integrations as per R3-QA067.	MI form used.	Recommend noting which sample results required MI on the MI form
Batch QC as per QM.	OK	
Adherence to Calibration Evaluation Policy (QM).	OK	
Origin of calibration stds. verified.	OK	
Holding time met (Sample Submission Procedures) & preservation documented.	OK	
Other Issues/Comments:		
Name and signature of reviewer:		Date: 02-15-12

① p. 197 of 202 – Not a clear connection LCS (BB20301-BS1) to QC Data package Datafile: 0124LCS.D Quant Time: Jan25 10:29:49 2012

Corrected 02-16-12

Analytical Case File Review Checklist

Work Performed by: (EPA, EPA/ESAT, ESAT)
WO Number: 1201013 Dimock Report 2 of 3

Parameter Group: 1) VOA
2)
3)

Analyst & Peer Reviewer: A) Warner/Nguyen
B)
C)

Item	Observation (Problems/Trends) Parameter Group & Analyst/Peer Reviewer as per codes above	Action (For this Case file/On-going)
Review of Completed Review Checklist for the Case:		
Data Verification (1st; 2nd level) as per QM	OK	
Technical peer review checklist completed with clear resolution of any issues	OK	
Unacceptable QC checks on-going (trends)?	OK	
Use of qualifier codes for QC issues (source and QC results) as per QM?	OK	
Demonstrated Capabilities:		
Listed on QS Components Report Table	OK	
MDLs; DOCs; PTs approved	OK	
MDLs; DOCs; PTs consistent with QL and target compounds reported.	OK	
SOP current.	OK	
Problematic Compounds (if reported, ID checked and quantitation verified).	OK	
"On-Demand" (as per QM) procedures followed if not demonstrated capability.	acrylonitrile only On-Demand checklist used	
TSAs/ External Assessment and Technical Sessions:		

1201013 - 1, -3, -5 29 → 36
-7, -9, 12 → 17 ; 28

Alcohols Analysis Technical Review Checklist (TRC) Checklist

For Internal Use Only

SOP: R3QA203-~~060910~~ 013012 JS 2/9/12

Site Name: Dimock Residential Groundwater WO#: 1201013

Analyst: Adam Molner Date given to Reviewer: 1/31/12 2/8/12

Matrix (circle): Solid / Aqueous / Other

Program (circle): Superfund / RCRA / WPD (NPDES) / SDWA / Other:

The signature below indicates the following:

- This data meets the needs of the customer according to the request.
- The analysis was performed as per the SOP, or exceptions documented.
- All documentation needed to recreate the analyses has been reviewed.
- Data Review status set to Peer Reviewed in Element.

Peer Reviewer signature [signature] Date accepted 2/9/12

If any data for this case is stored with another case file, give Site Name and WO#

Peer Reviewer Completes Section Below:

	YES	NO	N/A	Comments
General:				
Raw data is identified with sample IDs, site name, WO#, analyst name, date of analysis.	✓			well organized / complete case file
Quality Control:				
Technical Holding Times:				
Analysis: ≤ 7 days from collection date	✓ JS 2/15/12			
Calibration and Instrument Conditions: ≥ 5 levels (10-100 µg/mL)				
R R^2 > 0.998 for all compounds	✓			
SCV % difference within acceptance criteria (±20%)	✓			all < 7% (Back) < 17% for
CCV % difference within acceptance criteria (±20%)	✓			all < 13% Diff (Back)
Instrument blanks analyzed — Beg/End ; 20 samples	✓			~~all < 17%~~ (Back) All NON-DETECT
Data qualified and/or corrective action taken as appropriate			✓ JS 2/9/12	NO Qualifiers needed
BLK · FRB · RIN < QL & < 1/10 sample	✓			
BS/MS/MSD/BLK: 1/Batch - BS {70-130%	✓			All blks OK
Prepared at specified frequency 1/20 - MS, MSD	✓			MS, MSD, BS - All OK
% Rec and RPDs within acceptance criteria — RPD ≤ 25%	✓			
Data qualified and/or corrective action taken as appropriate			✓	NO Qualifiers NEEDED
Beg/End & 1/20 — J BL < 50% NQL (< 5 µg/mL)				
Sample Results and Documentation:				
% diff checked (≤25% between columns) and J qualifier applied as appropriate (Report lower value)	✓			All Results were non-detects
Extract concentrations within calibration curve	OK			All NON-detected
Dilutions described in either extraction log or on chromatogram			✓	NO Dilutions
All manual integrations properly documented?	✓		✓	~~NO MI~~ JS 2/9/12 one acceptable MI (Calc #4)
Extraction log, run log, standard prep log included and reviewed	✓			
Instrument and processing methods included and reviewed	✓			
Calibration curve data included and reviewed	✓			
Reagent water ≥ 18.2 MΩ/cm ; TOC ≤ 25 µg/L	✓			
Calculations/Report:				
Calculations and transcriptions checked.	✓			
Element Draft Report reviewed.	✓			
Deviations and problems documented.	✓ JS 2/9/12		✓	Lims is outputting QL of 0.5 µg/mL instead of 10 µg/mL — If cannot be corrected to [illegible]

QL corrected in Lims 1/19/12

Additional Comments by Peer Reviewer:
Currently using two seperate injectors @ for a Column and FID. & Injector. This has been documented in the equipment maintenance log & Included in the case file.
RRT window information is also included in Maint. Log & this case file.
Nice Job!

Analyst Ensures that the Data Case File is Complete and Accurate as per SOP R3QA-066:

- X Bench sheet or Work Order list
- X Sample Prep logs
- X Instrument run log
- X Standard/Reagent Prep log
- X Appropriate TV sheets / Certificates of Analysis
- X Element Peer Review report
- X Raw data

Additional Comments by Analyst on data issues:

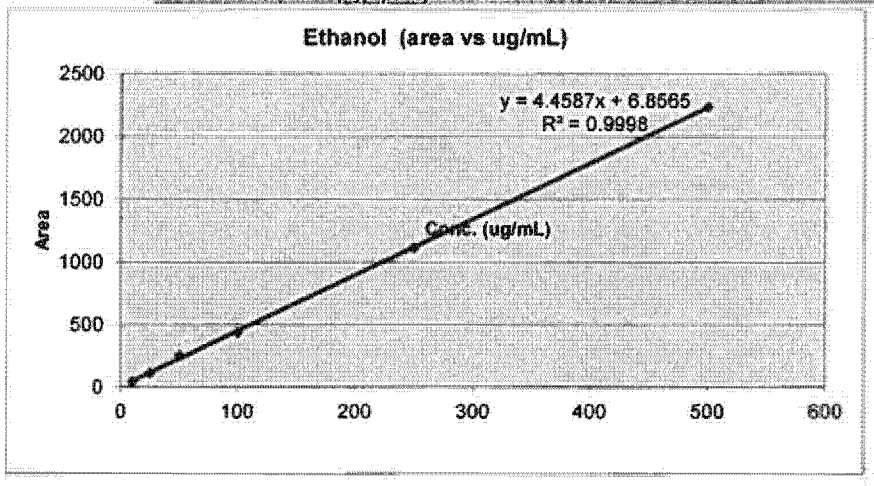
See batch notes

I:\ASQAB_AT Team\Checklists\Alcohols TRC.doc March 2008

Linear Regression Data, Data Analysis, Regression. Enter Y and X Ranges and Output Location as B31 (An empty Space) and Will Allow Determination of X Given Y

A. Molnar	**1/26/2012**
BACK Column	**Ethanol**
Column	**Area**
ug/mL	
10	44.15556
25	114.2137
50	254.5657
100	441.5813
250	1116.847
500	2238.632

Right click on graph Select source Data to update data used for plot



SELECT CELL B31 FOR LINEAR REGRESSION OUTPUT

Note: X Varible 1 is the Slope
X intercept is in red
Correlation Coefficient =R

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.999883
R Square	0.999767
Adjusted R Square	0.999708
Standard Error	14.45526
Observations	6

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	1	3578766	3578766	17127.00981	2.04465E-08
Residual	4	835.818053	208.95451		
Total	5	3579601.82			

	Coefficients	*Standard Erro*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*ower 95.0%*	*Upper 95.0%*
Intercept	6.856465	7.9380607	0.8637456	0.436444769	-15.18312441	28.89606	-15.1831	28.89606
X Variable 1	4.458669	0.0340694	130.8702	2.04465E-08	4.364077535	4.553261	4.364078	4.553261

Note the Linear Regression Output Portion of Display Does Not Automatically Update w/new X and Y Data

Given a Y value (uS/Min) Calc the Concentration

y= mx +b or x= (y-b)/m

Y X

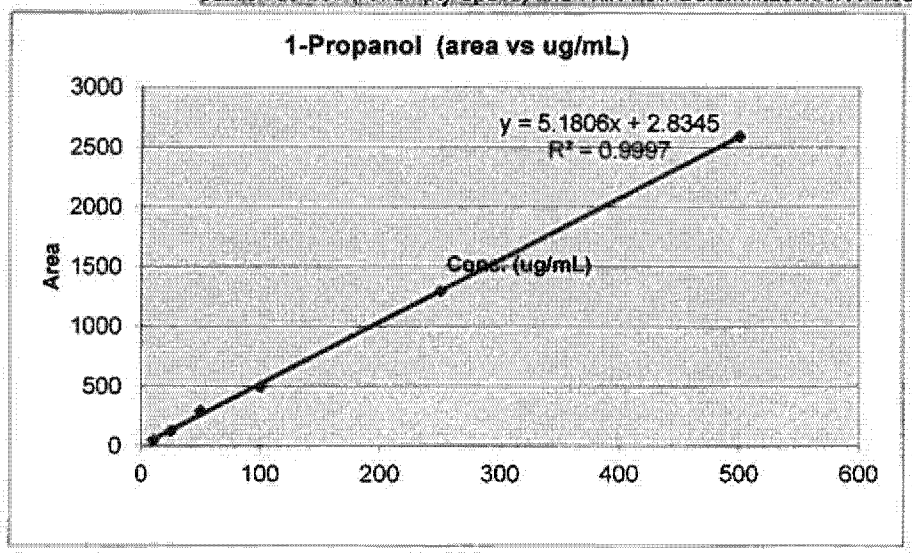
Sample #	Area	Conc ug/mL	True ug/ml	% Diff	% Rec
IBL1	0	0.000000			
H20	0	0.000000			
Cali 1, 10 Back	44.15556	8.365522	10	-16.34478435	83.65522
Cali 2, 25 Back	114.2137	24.078308	25	-3.686767439	96.31323
Cali 3, 50 Back	254.5657	55.556769	50	11.11353853	111.1135
Cali 4, 100 Back	441.5813	97.501019	100	-2.498981213	97.50102
Cali 5, 250 Back	1116.847	248.950978	250	-0.41960899	99.58039
Cali 6, 500 Back	2238.632	500.547405	500	0.109480943	100.1095
H20	0	0.000000			
IBIL2	0	0.000000	% Drift is Concx obtained-Conc true/conc. true *100		
SCV	451.0385	99.622096	-0.37790		100
H2O	0	0.000000			
BA22701-BLK1	0	0.000000			
BA22701-BS1	471.4596	104.202202	4.20220		100
BA22701-MS1	455.3182	100.5820	0.58198		100
BA22701-MSD	427.358	94.3110	-5.68901		100
H2O	0	0.000000			
IBL3	0	0.000000			
CCV1	437.3804	96.5588	-3.44115		100
H2O	0	0.000000			
Etoh 100 ppm	RT Only				
H20	0	0.0000			

Linear Regression

Data, Data Analysis, Regression. Enter Y and X Ranges and Output Location as B31 (An empty Space) and Will Allow Determination of X Given Y

A. Molnar **1/26/2012**
BACK Column **1- Propanol**

Column	Area
ug/mL	
10	49.19247
25	128.37985
50	294.01611
100	496.7308
250	1296.9891
500	2595.552



Right click on graph Select source Data to update data used for plot

SELECT CELL B31 FOR LINEAR REGRESSION OUTPUT

Note: X Varible 1 is the Slope
X intercept is in red
Correlation Coefficient =R

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.9998272
R Square	0.9996545
Adjusted R Squa	0.9995681
Standard Error	20.432111
Observations	6

ANOVA

	df	*SS*	*MS*	*F*	*ignificance F*
Regression	1	4831495.452	4831495	11573.24	4.48E-08
Residual	4	1669.884602	417.4712		
Total	5	4833165.337			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*ower 95.0%*	*Upper 95.0%*
Intercept	2.8344507	11.22023032	0.25262	0.813013	-28.3179	33.9868	-28.3179	33.9868
X Variable 1	5.1805922	0.04815616	107.579	4.48E-08	5.046889	5.314295	5.046889	5.314295

Note the Linear Regression Output Portion of Display Does Not Automatically Update w/new X and Y Data

Given a Y value (uS/Min) Calc the Concentration

y= mx +b or x= (y-b)/m

Y X

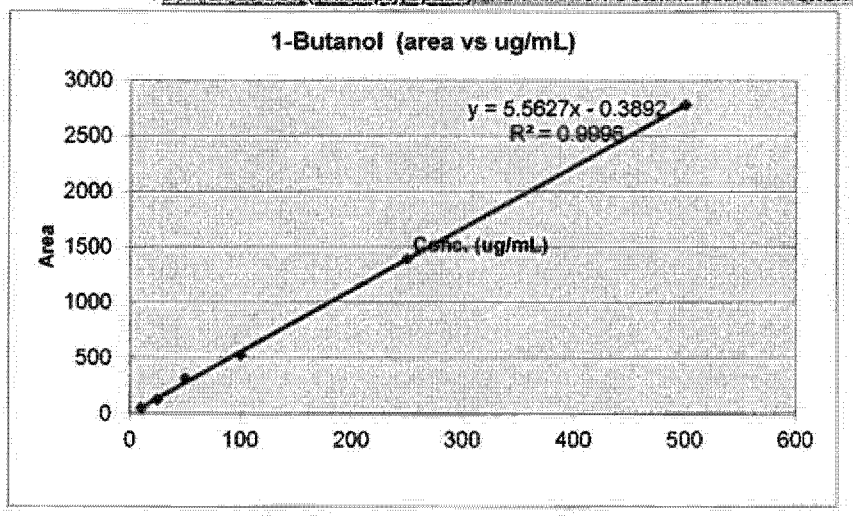
Sample #	Area	Conc ug/mL	True ug/ml	% Diff	% Rec.
IBL1	0	0.000000			
H20	0	0.000000			
Cali 1, 10 Back	49.19247	8.948402	10	-10.516	89.48402
Cali 2, 25 Back	128.37985	24.233793	25	-3.06483	96.93517
Cali 3, 50 Back	294.01611	56.206250	50	12.4125	112.4125
Cali 4, 100 Back	496.7308	95.335887	100	-4.66411	95.33589
Cali 5, 250 Back	1296.9891	249.808256	250	-0.0767	99.9233
Cali 6, 500 Back	2595.552	500.467412	500	0.093482	100.0935
H20	0	0.000000			
IBIL2	0	0.000000	% Drift is Concx obtained-Conc true/conc. true *100		
SCV	536.76306	103.063239	3.06324		100
H2O	0	0.000000			
BA22701-BLK1	0	0.000000			
BA22701-BS1	549.27289	105.477988	5.47799		100
BA22701-MS1	520.24133	99.874081	-0.12592		100
BA22701-MSD	495.98944	95.192784	-4.80722		100
H2O	0	0.000000			
IBL3	0	0.000000			
CCV1	509.81918	97.862313	-2.13769		100
H2O	0	0.000000			
Propan	RT Only				
H20	0	0.000000			

Linear Regression

Data, Data Analysis, Regression. Enter Y and X Ranges and Output Location as B31 (An empty Space) and Will Allow Determination of X Given Y

A. Molnar **1/26/2012**
BACK Column **1-Butanol**
Column **Area**

ug/mL	
10	51.01756
25	131.78981
50	314.21701
100	525.17029
250	1395.14221
500	2781.46533



Right click on graph Select source Data to update data used for plot

SELECT CELL B31 FOR LINEAR REGRESSION OUTPUT

Note: X Varible 1 is the Slope
X intercept is in red
Correlation Coefficient =R

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.99978802
R Square	0.99957609
Adjusted R Square	0.99947012
Standard Error	24.3021887
Observations	6

ANOVA

	df	*SS*	*MS*	*F*	*ignificance F*
Regression	1	5570525.55	5570526	9432.0347	6.74E-08
Residual	4	2362.38551	590.5964		
Total	5	5572887.94			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*ower 95.0%*	*pper 95.0%*
Intercept	-0.38916962	13.3454716	-0.02916	0.978133	-37.4421	36.6638	-37.4421	36.6638
X Variable 1	5.56271361	0.05727749	97.11866	6.74E-08	5.403686	5.721741	5.403686	5.721741

Note the Linear Regression Output Portion of Display Does Not Automatically Update w/new X and Y Data

Given a Y value (uS/Min) Calc the Concentration

y= mx +b or x= (y-b)/m

Y X

Sample #	Area	Conc ug/mL	True ug/ml	% Diff	% Rec.
IBL1	0	0.000000			
H20	0	0.000000			
Cali 1, 10 Back	51.01756	9.241304	10	-7.58696	92.41304
Cali 2, 25 Back	131.78981	23.761601	25	-4.9536	95.0464
Cali 3, 50 Back	314.21701	56.556242	50	13.11248	113.1125
Cali 4, 100 Back	525.17029	94.478971	100	-5.52103	94.47897
Cali 5, 250 Back	1395.14221	250.872412	250	0.348965	100.349
Cali 6, 500 Back	2781.46533	500.089470	500	0.017894	100.0179
H20	0	0.000000			
IBIL2	0	0.000000	% Drift is Concx obtained-Conc true/conc. true *100		
SCV	595.24792	107.076713	7.07671		100
H2O	0	0.000000			
BA22701-BLK1	0	0.000000			
BA22701-BS1	601.11401	108.131251	8.13125		100
BA22701-MS1	568.41022	102.2521	2.25214		100
BA22701-MSD	543.03424	97.6903	-2.30966		100
H2O	0	0.0000			
IBL3	0	0.0000			
CCV1	543.45624	97.7662	-2.23379		100
H2O	0	0.0000			
Etoh 100 ppm	RT Only				
H20	0	0.0000			

Case File Contents

Alcohols

Alcohols by EPA 8015D

WO 1201013

Dimock Residential Groundwater

DAS R33907

Summary of Results / Project Information

Appendix C

Manual Integration Summary Form

Site Name: Dmock Residential Groundwater Work Order Number: 1201013

Check all reasons that apply:

( ) Manual integration performed to properly integrate unresolved peaks.

( ) Manual integration performed to separate closely eluting peaks with the same quantitation ion.

( ) Manual integration performed to remove coeluting interferent.

( ) Manual integration performed to add a non-detected peak.

( ) Manual integration performed to identify correct peak.

(X) Manual integration performed due to peak splitting.

( ) Manual integration performed due to failure of the instrument response to return to baseline or a rise in the baseline.

( ) Manual integration performed to employ peak skimming due to coeluting peaks.

( ) Manual integration performed due to poor chromatography (peak shape).

Additional Notes:

Analyst: Adam Molnar Date: 2-9-12

Peer Reviewer: Joe Slaughter Date: 2-9-12

Rev. 5/4/11

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5350

DRAFT

Site Name: Dimock Residential Groundwater	**Project #: DAS R33907**

Report Narrative

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5350

DRAFT

Site Name: Dimock Residential Groundwater **Project #: DAS R33907**

Report Narrative

Samples have been qualified based on the highest level concentrations of field QC contamination found in the field, equipment, or trip blanks.

SVOAs Analysis Note:
All samples were extracted by EPA SW-846 Method 3520C followed by analysis using EPA SW-846 Method 8270D. Refer to notes in case file for additional information regarding the analysis.
2,4-Dinitrophenol was qualified "UJ" in sample "-01" due to not being detected in the low spike (BA22504-BS1).
2-methoxyethanol and 1-methylnaphthalene were calibrated in a separate initial calibration from rest of the SVOC target compounds. RSDs were less than 20%.
OASQA's quality system dictates that low- and mid-level spikes are run for on demand analysis. These spikes have excellent recoveries.
2,4-Dinitrophenol, pentachlorophenol, and 4,6-dinitro-2-methylphenol were qualified "UJ" in samples "-03" and -"05" due to low recovery in the low spike (BA22603-BS1).
2,4-Dinitrophenol, pentachlorophenol, and 4,6-dinitro-2-methylphenol were qualified "UJ" in samples "-07", "-09", "-12", "-13", "-14", "-15", "-16", "-17", and -"28" due to low recovery in the low spike (BA22901-BS1).
2,4-Dinitrophenol, pentachlorophenol, 4,6-dinitro-2-methylphenol, and 2-methoxyethanol were qualified "UJ" in samples "-29", "-30", "-31", "-32", "-33", "-34", "-35", and "-36" due to low recovery in the low spike (BA23102-BS1).

Glycols by LC/MS/MS Note:
Samples were analyzed for diethylene glycol (DiG) (CAS# 111-46-6), triethylene glycol (TriG) (112-27-6), tetraethylene glycol (TeG) (112-60-7), 2-butoxyethanol (2-Bu) (111-76-2) and 2-methoxyethanol (109-86-4) by LC/MS/MS (inst id: TQD-LCMSMS) on a Waters Atlantis dC18 3um 2.1 x 150mm column (s/n- 0141301481). See the case file for complete instrument method information.
An LC/MS/MS method does not currently exist for these analytes. ASTM D 7731-11 and EPA SW-846 Methods 8000C and 8321 were followed for method development and QA/QC limits where applicable. All applicable OASQA On Demand QA/QC protocols were followed.

The aqueous samples were injected without extraction onto the LC/MS/MS system

Refer to notes in the case file for additional information regarding the analysis.

VOA Analysis Note:
Acrylonitrile was analyzed on-demand using CLP equivalent methodology. This analyte does not appear in the data tables or the QC summary and all data for this compound is summarized here. Acrylonitrile was not detected in any of the samples above a quantitation limit of 2 ug/L. A four point curve was analyzed (2, 5, 10 and 20 ug/L). The samples were preserved to a pH<2 with HCl. A low level second source blank spike analyzed at a concentration of 2 ug/L had a recovery of 112%. A mid level second source blank spike analyzed at a concentration of 5 ug/L had a recovery of 102%. A duplicate second source blank spike at 5 ug/L had 205% recovery. Due to this high recovery, duplicate blank spikes from the primary source were analyzed. Recoveries for these spikes were 110% and 157%.

2-Chloroethylvinyl ether is not included in the analysis. 2-chloroethylvinyl ether breaks down in acidified samples.

There was not enough sample volume submitted to perform matrix spike/matrix spike duplicate analysis. A single matrix spike

DRAFT

Site Name: Dimock Residential Groundwater	Project #: DAS R33907

Report Narrative

was performed for samples 1201013-14 and 1201013-33.

The acetone result for sample 1201013-36 is qualified with a "K" due to an interference from isopropanol.

Phosphate Analysis Note:
Total phosphate was analyzed instead of ortho phosphate because of holding time issues.

TDS Analysis Note:
Samples 1201013-12 thru 1201013-36 were qualified with a "J" due to problems with negative values for the blank and some of the samples. In addition, there was a high RPD obtained for one of the duplicates.

Nitrite/Nitrate and Total Nitrogen Analysis Note:
These were run as an 'On-Demand' analysis.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5350

DRAFT

Site Name: Dimock Residential Groundwater **Project #: DAS R33907**

ANALYTICAL REPORT FOR SAMPLES

Station ID	Laboratory ID	Matrix	Date Sampled	Date Received
FB01	1201013-01	Water	1/23/12 14:42	1/25/12 10:40
HW19	1201013-03	Drinking Water	1/23/12 17:47	1/25/12 10:40
HW19-P	1201013-05	Drinking Water	1/23/12 19:07	1/26/12 11:50
FB02	1201013-07	Water	1/24/12 12:11	1/27/12 11:59
HW04	1201013-09	Drinking Water	1/24/12 14:33	1/27/12 11:59
FB03	1201013-12	Water	1/25/12 10:01	1/28/12 14:11
HW02	1201013-13	Drinking Water	1/25/12 12:58	1/28/12 14:11
HW02z	1201013-14	Drinking Water	1/25/12 12:59	1/28/12 14:11
HW01	1201013-15	Drinking Water	1/25/12 16:31	1/28/12 14:11
HW05	1201013-16	Drinking Water	1/26/12 11:35	1/28/12 14:11
HW06	1201013-17	Drinking Water	1/26/12 15:30	1/28/12 14:11
HW08a	1201013-28	Drinking Water	1/25/12 11:46	1/28/12 14:11
FB04	1201013-29	Water	1/26/12 09:13	1/30/12 09:20
FB05	1201013-30	Water	1/27/12 09:40	1/30/12 09:20
HW24	1201013-31	Drinking Water	1/27/12 12:09	1/30/12 09:20
HW24-P	1201013-32	Drinking Water	1/27/12 13:18	1/30/12 09:20
HW12	1201013-33	Drinking Water	1/26/12 13:23	1/30/12 09:20
HW17	1201013-34	Drinking Water	1/27/12 11:40	1/30/12 09:20
HW14	1201013-35	Drinking Water	1/26/12 17:13	1/30/12 09:20
HW14-P	1201013-36	Drinking Water	1/26/12 19:15	1/30/12 09:20

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Site Name: Dimock Residential Groundwater	**Project #:** DAS R33907
Station ID: FB01	**Lab ID:** 1201013-01
Sample Matrix: Water	**Date Collected:** 01/23/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	01/26/12	01/27/12 15:22	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	01/26/12	01/27/12 15:22	EPA 8015D/R3QA203
Ethanol	U		10.0	1	01/26/12	01/27/12 15:22	EPA 8015D/R3QA203
Methanol	U		10.0	1	01/26/12	01/27/12 15:22	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	01/26/12	01/27/12 15:22	EPA 8015D/R3QA203

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Site Name: Dimock Residential Groundwater	**Project #:** DAS R33907
Station ID: HW19	**Lab ID:** 1201013-03
Sample Matrix: Drinking Water	**Date Collected:** 01/23/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	01/26/12	01/27/12 15:36	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	01/26/12	01/27/12 15:36	EPA 8015D/R3QA203
Ethanol	U		10.0	1	01/26/12	01/27/12 15:36	EPA 8015D/R3QA203
Methanol	U		10.0	1	01/26/12	01/27/12 15:36	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	01/26/12	01/27/12 15:36	EPA 8015D/R3QA203

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Site Name: Dimock Residential Groundwater	**Project #:** DAS R33907
Station ID: HW19-P	**Lab ID:** 1201013-05
Sample Matrix: Drinking Water	**Date Collected:** 01/23/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	01/26/12	01/27/12 16:17	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	01/26/12	01/27/12 16:17	EPA 8015D/R3QA203
Ethanol	U		10.0	1	01/26/12	01/27/12 16:17	EPA 8015D/R3QA203
Methanol	U		10.0	1	01/26/12	01/27/12 16:17	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	01/26/12	01/27/12 16:17	EPA 8015D/R3QA203

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Site Name: Dimock Residential Groundwater	**Project #:** DAS R33907
Station ID: FB02	**Lab ID:** 1201013-07
Sample Matrix: Water	**Date Collected:** 01/24/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	01/30/12	01/30/12 09:00	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	01/30/12	01/30/12 09:00	EPA 8015D/R3QA203
Ethanol	U		10.0	1	01/30/12	01/30/12 09:00	EPA 8015D/R3QA203
Methanol	U		10.0	1	01/30/12	01/30/12 09:00	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	01/30/12	01/30/12 09:00	EPA 8015D/R3QA203

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Site Name: Dimock Residential Groundwater	**Project #:** DAS R33907
Station ID: HW04	**Lab ID:** 1201013-09
Sample Matrix: Drinking Water	**Date Collected:** 01/24/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	01/30/12	01/30/12 09:14	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	01/30/12	01/30/12 09:14	EPA 8015D/R3QA203
Ethanol	U		10.0	1	01/30/12	01/30/12 09:14	EPA 8015D/R3QA203
Methanol	U		10.0	1	01/30/12	01/30/12 09:14	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	01/30/12	01/30/12 09:14	EPA 8015D/R3QA203

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Site Name: Dimock Residential Groundwater	**Project #:** DAS R33907
Station ID: FB03	**Lab ID:** 1201013-12
Sample Matrix: Water	**Date Collected:** 01/25/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	01/30/12	01/30/12 09:27	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	01/30/12	01/30/12 09:27	EPA 8015D/R3QA203
Ethanol	U		10.0	1	01/30/12	01/30/12 09:27	EPA 8015D/R3QA203
Methanol	U		10.0	1	01/30/12	01/30/12 09:27	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	01/30/12	01/30/12 09:27	EPA 8015D/R3QA203

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Site Name: Dimock Residential Groundwater	**Project #:** DAS R33907
Station ID: HW02	**Lab ID:** 1201013-13
Sample Matrix: Drinking Water	**Date Collected:** 01/25/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	01/30/12	01/30/12 09:41	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	01/30/12	01/30/12 09:41	EPA 8015D/R3QA203
Ethanol	U		10.0	1	01/30/12	01/30/12 09:41	EPA 8015D/R3QA203
Methanol	U		10.0	1	01/30/12	01/30/12 09:41	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	01/30/12	01/30/12 09:41	EPA 8015D/R3QA203

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Site Name: Dimock Residential Groundwater	**Project #:** DAS R33907
Station ID: HW02z	**Lab ID:** 1201013-14
Sample Matrix: Drinking Water	**Date Collected:** 01/25/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	01/30/12	01/30/12 09:55	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	01/30/12	01/30/12 09:55	EPA 8015D/R3QA203
Ethanol	U		10.0	1	01/30/12	01/30/12 09:55	EPA 8015D/R3QA203
Methanol	U		10.0	1	01/30/12	01/30/12 09:55	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	01/30/12	01/30/12 09:55	EPA 8015D/R3QA203

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Site Name: Dimock Residential Groundwater	**Project #:** DAS R33907
Station ID: HW01	**Lab ID:** 1201013-15
Sample Matrix: Drinking Water	**Date Collected:** 01/25/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	01/30/12	01/30/12 10:08	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	01/30/12	01/30/12 10:08	EPA 8015D/R3QA203
Ethanol	U		10.0	1	01/30/12	01/30/12 10:08	EPA 8015D/R3QA203
Methanol	U		10.0	1	01/30/12	01/30/12 10:08	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	01/30/12	01/30/12 10:08	EPA 8015D/R3QA203

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Site Name: Dimock Residential Groundwater	**Project #:** DAS R33907
Station ID: HW05	**Lab ID:** 1201013-16
Sample Matrix: Drinking Water	**Date Collected:** 01/26/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	01/30/12	01/30/12 10:22	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	01/30/12	01/30/12 10:22	EPA 8015D/R3QA203
Ethanol	U		10.0	1	01/30/12	01/30/12 10:22	EPA 8015D/R3QA203
Methanol	U		10.0	1	01/30/12	01/30/12 10:22	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	01/30/12	01/30/12 10:22	EPA 8015D/R3QA203

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Site Name: Dimock Residential Groundwater	**Project #:** DAS R33907
Station ID: HW06	**Lab ID:** 1201013-17
Sample Matrix: Drinking Water	**Date Collected:** 01/26/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	01/30/12	01/30/12 10:36	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	01/30/12	01/30/12 10:36	EPA 8015D/R3QA203
Ethanol	U		10.0	1	01/30/12	01/30/12 10:36	EPA 8015D/R3QA203
Methanol	U		10.0	1	01/30/12	01/30/12 10:36	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	01/30/12	01/30/12 10:36	EPA 8015D/R3QA203

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Site Name: Dimock Residential Groundwater	**Project #:** DAS R33907
Station ID: HW08a	**Lab ID:** 1201013-28
Sample Matrix: Drinking Water	**Date Collected:** 01/25/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	01/30/12	01/30/12 11:17	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	01/30/12	01/30/12 11:17	EPA 8015D/R3QA203
Ethanol	U		10.0	1	01/30/12	01/30/12 11:17	EPA 8015D/R3QA203
Methanol	U		10.0	1	01/30/12	01/30/12 11:17	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	01/30/12	01/30/12 11:17	EPA 8015D/R3QA203

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Site Name: Dimock Residential Groundwater	**Project #:** DAS R33907
Station ID: FB04	**Lab ID:** 1201013-29
Sample Matrix: Water	**Date Collected:** 01/26/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	01/31/12	01/31/12 18:32	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	01/31/12	01/31/12 18:32	EPA 8015D/R3QA203
Ethanol	U		10.0	1	01/31/12	01/31/12 18:32	EPA 8015D/R3QA203
Methanol	U		10.0	1	01/31/12	01/31/12 18:32	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	01/31/12	01/31/12 18:32	EPA 8015D/R3QA203

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Site Name: Dimock Residential Groundwater	**Project #:** DAS R33907
Station ID: FB05	**Lab ID:** 1201013-30
Sample Matrix: Water	**Date Collected:** 01/27/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	01/31/12	01/31/12 18:46	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	01/31/12	01/31/12 18:46	EPA 8015D/R3QA203
Ethanol	U		10.0	1	01/31/12	01/31/12 18:46	EPA 8015D/R3QA203
Methanol	U		10.0	1	01/31/12	01/31/12 18:46	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	01/31/12	01/31/12 18:46	EPA 8015D/R3QA203

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Site Name: Dimock Residential Groundwater	**Project #:** DAS R33907
Station ID: HW24	**Lab ID:** 1201013-31
Sample Matrix: Drinking Water	**Date Collected:** 01/27/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	01/31/12	01/31/12 18:59	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	01/31/12	01/31/12 18:59	EPA 8015D/R3QA203
Ethanol	U		10.0	1	01/31/12	01/31/12 18:59	EPA 8015D/R3QA203
Methanol	U		10.0	1	01/31/12	01/31/12 18:59	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	01/31/12	01/31/12 18:59	EPA 8015D/R3QA203

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DRAFT

Site Name: Dimock Residential Groundwater	**Project #:** DAS R33907
Station ID: HW24-P	**Lab ID:** 1201013-32
Sample Matrix: Drinking Water	**Date Collected:** 01/27/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	01/31/12	01/31/12 19:41	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	01/31/12	01/31/12 19:41	EPA 8015D/R3QA203
Ethanol	U		10.0	1	01/31/12	01/31/12 19:41	EPA 8015D/R3QA203
Methanol	U		10.0	1	01/31/12	01/31/12 19:41	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	01/31/12	01/31/12 19:41	EPA 8015D/R3QA203

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Site Name: Dimock Residential Groundwater	**Project #:** DAS R33907
Station ID: HW12	**Lab ID:** 1201013-33
Sample Matrix: Drinking Water	**Date Collected:** 01/26/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	01/31/12	01/31/12 19:54	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	01/31/12	01/31/12 19:54	EPA 8015D/R3QA203
Ethanol	U		10.0	1	01/31/12	01/31/12 19:54	EPA 8015D/R3QA203
Methanol	U		10.0	1	01/31/12	01/31/12 19:54	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	01/31/12	01/31/12 19:54	EPA 8015D/R3QA203

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DRAFT

Site Name: Dimock Residential Groundwater	**Project #:** DAS R33907
Station ID: HW17	**Lab ID:** 1201013-34
Sample Matrix: Drinking Water	**Date Collected:** 01/27/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	01/31/12	01/31/12 20:08	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	01/31/12	01/31/12 20:08	EPA 8015D/R3QA203
Ethanol	U		10.0	1	01/31/12	01/31/12 20:08	EPA 8015D/R3QA203
Methanol	U		10.0	1	01/31/12	01/31/12 20:08	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	01/31/12	01/31/12 20:08	EPA 8015D/R3QA203

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Site Name: Dimock Residential Groundwater	**Project #:** DAS R33907
Station ID: HW14	**Lab ID:** 1201013-35
Sample Matrix: Drinking Water	**Date Collected:** 01/26/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	01/31/12	01/31/12 20:22	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	01/31/12	01/31/12 20:22	EPA 8015D/R3QA203
Ethanol	U		10.0	1	01/31/12	01/31/12 20:22	EPA 8015D/R3QA203
Methanol	U		10.0	1	01/31/12	01/31/12 20:22	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	01/31/12	01/31/12 20:22	EPA 8015D/R3QA203

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Site Name: Dimock Residential Groundwater
Project #: DAS R33907
Station ID: HW14-P
Lab ID: 1201013-36
Sample Matrix: Drinking Water
Date Collected: 01/26/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	01/31/12	01/31/12 20:36	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	01/31/12	01/31/12 20:36	EPA 8015D/R3QA203
Ethanol	U		10.0	1	01/31/12	01/31/12 20:36	EPA 8015D/R3QA203
Methanol	U		10.0	1	01/31/12	01/31/12 20:36	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	01/31/12	01/31/12 20:36	EPA 8015D/R3QA203

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Site Name:	**Project #:**

Tentatively Identified Compound (TIC) Report

CAS Number	Compound	Result	Analyte Qualifiers	Retention Time	Analyzed	Method/SOP#

Lab ID:
Station ID:
Sample Matrix:
Collected:

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Site Name: **Dimock Residential Groundwater** **Project #:** **DAS R33907**

QC Data
Alcohols

Analyte	Result	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BA22701 - Alcohols										
Blank (BA22701-BLK1)				Prepared: 01/26/12 08:00		Analyzed: 01/27/12 14:54				
1-Butanol	U	10.0	ug/mL							
2-Butanol	U	10.0	"							
Ethanol	U	10.0	"							
Methanol	U	10.0	"							
1-Propanol	U	10.0	"							
LCS (BA22701-BS1)				Prepared: 01/26/12 08:00		Analyzed: 01/27/12 15:08				
1-Butanol	108	10.0	ug/mL	100.00		108	70-130			
2-Butanol	104	10.0	"	100.00		104	70-130			
Ethanol	104	10.0	"	100.00		104	70-130			
Methanol	99.8	10.0	"	100.00		100	70-130			
1-Propanol	106	10.0	"	100.00		106	70-130			
Matrix Spike (BA22701-MS1)		Source: 1201013-03		Prepared: 01/26/12 08:00		Analyzed: 01/27/12 15:49				
1-Butanol	102	10.0	ug/mL	100.00	0.00	102	70-130			
2-Butanol	99.0	10.0	"	100.00	0.00	99	70-130			
Ethanol	101	10.0	"	100.00	0.00	101	70-130			
Methanol	91.3	10.0	"	100.00	0.00	91	70-130			
1-Propanol	99.9	10.0	"	100.00	0.00	100	70-130			
Matrix Spike Dup (BA22701-MSD1)		Source: 1201013-03		Prepared: 01/26/12 08:00		Analyzed: 01/27/12 16:03				
1-Butanol	97.7	10.0	ug/mL	100.00	0.00	98	70-130	5	25	
2-Butanol	94.2	10.0	"	100.00	0.00	94	70-130	5	25	
Ethanol	94.3	10.0	"	100.00	0.00	94	70-130	6	25	
Methanol	90.2	10.0	"	100.00	0.00	90	70-130	1	25	
1-Propanol	95.2	10.0	"	100.00	0.00	95	70-130	5	25	

DRAFT

Site Name: **Dimock Residential Groundwater** **Project #:** **DAS R33907**

QC Data
Alcohols

Analyte	Result	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BA23001 - Alcohols										
Blank (BA23001-BLK1)				Prepared: 01/30/12 07:02		Analyzed: 01/30/12 08:32				
1-Butanol	U	10.0	ug/mL							
2-Butanol	U	10.0	"							
Ethanol	U	10.0	"							
Methanol	U	10.0	"							
1-Propanol	U	10.0	"							
LCS (BA23001-BS1)				Prepared: 01/30/12 07:02		Analyzed: 01/30/12 08:46				
1-Butanol	95.8	10.0	ug/mL	100.00		96	70-130			
2-Butanol	94.2	10.0	"	100.00		94	70-130			
Ethanol	95.5	10.0	"	100.00		96	70-130			
Methanol	91.9	10.0	"	100.00		92	70-130			
1-Propanol	94.1	10.0	"	100.00		94	70-130			
Matrix Spike (BA23001-MS1)	Source: 1201013-17			Prepared: 01/30/12 07:02		Analyzed: 01/30/12 10:50				
1-Butanol	113	10.0	ug/mL	100.00	0.00	113	70-130			
2-Butanol	109	10.0	"	100.00	0.00	109	70-130			
Ethanol	105	10.0	"	100.00	0.00	105	70-130			
Methanol	98.4	10.0	"	100.00	0.00	98	70-130			
1-Propanol	108	10.0	"	100.00	0.00	108	70-130			
Matrix Spike Dup (BA23001-MSD1)	Source: 1201013-17			Prepared: 01/30/12 07:02		Analyzed: 01/30/12 11:03				
1-Butanol	114	10.0	ug/mL	100.00	0.00	114	70-130	0.5	25	
2-Butanol	109	10.0	"	100.00	0.00	109	70-130	0.2	25	
Ethanol	106	10.0	"	100.00	0.00	106	70-130	2	25	
Methanol	99.9	10.0	"	100.00	0.00	100	70-130	1	25	
1-Propanol	109	10.0	"	100.00	0.00	109	70-130	0.8	25	

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5350

DRAFT

Site Name: **Dimock Residential Groundwater** **Project #:** **DAS R33907**

QC Data
Alcohols

Analyte	Result	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BA23103 - Alcohols										
Blank (BA23103-BLK1)				Prepared: 01/31/12 09:16		Analyzed: 01/31/12 18:05				
1-Butanol	U	10.0	ug/mL							
2-Butanol	U	10.0	"							
Ethanol	U	10.0	"							
Methanol	U	10.0	"							
1-Propanol	U	10.0	"							
LCS (BA23103-BS1)				Prepared: 01/31/12 09:16		Analyzed: 01/31/12 18:18				
1-Butanol	100	10.0	ug/mL	100.00		100	70-130			
2-Butanol	96.3	10.0	"	100.00		96	70-130			
Ethanol	97.5	10.0	"	100.00		97	70-130			
Methanol	91.5	10.0	"	100.00		91	70-130			
1-Propanol	97.5	10.0	"	100.00		98	70-130			
Matrix Spike (BA23103-MS1)		Source: 1201013-31		Prepared: 01/31/12 09:16		Analyzed: 01/31/12 19:13				
1-Butanol	105	10.0	ug/mL	100.00	0.00	105	70-130			
2-Butanol	101	10.0	"	100.00	0.00	101	70-130			
Ethanol	101	10.0	"	100.00	0.00	101	70-130			
Methanol	94.1	10.0	"	100.00	0.00	94	70-130			
1-Propanol	102	10.0	"	100.00	0.00	102	70-130			
Matrix Spike Dup (BA23103-MSD1)		Source: 1201013-31		Prepared: 01/31/12 09:16		Analyzed: 01/31/12 19:27				
1-Butanol	104	10.0	ug/mL	100.00	0.00	104	70-130	2	25	
2-Butanol	99.8	10.0	"	100.00	0.00	100	70-130	1	25	
Ethanol	96.4	10.0	"	100.00	0.00	96	70-130	4	25	
Methanol	90.8	10.0	"	100.00	0.00	91	70-130	4	25	
1-Propanol	99.3	10.0	"	100.00	0.00	99	70-130	3	25	

DRAFT

Site Name: Dimock Residential Groundwater **Project #: DAS R33907**

Notes and Definitions

%REC	Percent Recovery
RPD	Relative Percent Difference
U	Analyte included in the analysis, but not detected at or above the quantitation limit.

Quantitation Limit: The lowest concentration of an analyte that can be reliably measured within specified limits of precision and accuracy for a specific laboratory analytical method and that takes into account analytical adjustments made during sample preparation and analysis.

REPORTING PROTOCOL FOR SOLID SAMPLE RESULTS: Percent Solids (percent dry wt at 105 degrees C) determinations are routinely performed for most organic and inorganic analyses. Consequently, these samples are analyzed wet and converted to a dry weight result for reporting purposes. If metals and mercury analyses are requested, they are routinely prepared for analyses by an initial drying at 60 degrees C, homogenized prior to digestion, and are analyzed and reported on a dry weight basis. Oil-type samples are analyzed and reported on a wet weight basis for all analyses because of the nature of the sample matrix. Any exceptions to this protocol will be noted in the narrative.

DRAFT

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
	Alcohols by EPA 8015D	(Water)	Result calculations based on MDL
	Alcohols by EPA 8015D	(Water)	RPD calculations based on %Recovery
1201013-01	Alcohols by EPA 8015D		Status is Analyzed
1201013-03	Alcohols by EPA 8015D		Status is Analyzed
1201013-05	Alcohols by EPA 8015D		Status is Analyzed
1201013-07	Alcohols by EPA 8015D		Status is Analyzed
1201013-09	Alcohols by EPA 8015D		Status is Analyzed
1201013-12	Alcohols by EPA 8015D		Status is Analyzed
1201013-13	Alcohols by EPA 8015D		Status is Analyzed
1201013-14	Alcohols by EPA 8015D		Status is Analyzed
1201013-15	Alcohols by EPA 8015D		Status is Analyzed
1201013-16	Alcohols by EPA 8015D		Status is Analyzed
1201013-17	Alcohols by EPA 8015D		Status is Analyzed
1201013-28	Alcohols by EPA 8015D		Status is Analyzed
1201013-29	Alcohols by EPA 8015D		Status is Analyzed
1201013-30	Alcohols by EPA 8015D		Status is Analyzed
1201013-31	Alcohols by EPA 8015D		Status is Analyzed
1201013-32	Alcohols by EPA 8015D		Status is Analyzed
1201013-33	Alcohols by EPA 8015D		Status is Analyzed
1201013-34	Alcohols by EPA 8015D		Status is Analyzed
1201013-35	Alcohols by EPA 8015D		Status is Analyzed
1201013-36	Alcohols by EPA 8015D		Status is Analyzed

DIM0213954 DIM0214001

Case File Notes:
- Dimock (WO# 1201013)
- Because all values were N/D on both column the routine operation of reporting the lower value is not possible. All results will be reported from the back column because the chromatography is better (ie resolution, peak shape, etc).
- All QC samples reported from back column.
- Prepared date in case file is the date the MS/MSD and BS were prepared.

Instrument QC:
1/26/12
Front Column (Stabilwax)
ICAL - All compounds linear with R > 0.995. Cal level 6 removed for 1-propanol.
SCV - pass.
CCV1 - Pass
IBL1,2,3 - pass.

1/30/12
CCV1,2 - pass
IBL1,2 - pass

1/31/12
CCV1,2 - pass
IBL1,2 - pass

1/27/12
Back Column (RTX-1701)
ICAL - All compounds linear with R > 0.995.
SCV - pass.
CCV1 - Pass
IBL1,2,3 - pass.

1/30/12
CCV1,2 - pass
IBL1,2 - pass

1/31/12
CCV1,2 - pass
IBL1,2 - pass

Extraction QC:
Front Column (Stabilwax)

BA23001
Blank1 - pass.
BS1 - pass.
MS1 - Pass.
MSD1 - Pass.

BA22701
BLK1 - Pass
BS1 - pass
MS1 - pass
MSD1 - pass

BA23103
BLK1 - Pass
BS1 - pass
MS1 - pass
MSD1 - pass

BA23001
Back Column (RTX-1701)
Blank1 - pass.

BS1 - pass.
MS1 - Pass.
MSD1 - Pass.

BA22701
BLK1 - Pass
BS1 - pass
MS1 - pass
MSD1 - pass

BA23103
BLK1 - Pass
BS1 - pass
MS1 - pass
MSD1 - pass

Sample# 1201013-07 **Sample Name:** FB02 **Sample Type:** SAM Alcohols by EPA 8015D	**Lab\Report Matrix** Water\Water **Date Sampled** 01/24/12 12:11 **Expires:** 01/31/12 12:11 **Analysis Comments:** 71 Drinking Water **Sample Comments:**	**Sample Logged In:** 01/27/12 12:54 **Sample Received:** 01/27/12 11:59 **Analyzed**	
Sample# 1201013-09 **Sample Name:** HW04 **Sample Type:** SAM Alcohols by EPA 8015D	**Lab\Report Matrix** Water\Drinking Water **Date Sampled** 01/24/12 14:33 **Expires:** 01/31/12 14:33 **Analysis Comments:** 71 Drinking Water **Sample Comments:**	**Sample Logged In:** 01/27/12 12:54 **Sample Received:** 01/27/12 11:59 **Analyzed**	
Sample# 1201013-12 **Sample Name:** FB03 **Sample Type:** SAM Alcohols by EPA 8015D	**Lab\Report Matrix** Water\Water **Date Sampled** 01/25/12 10:01 **Expires:** 02/01/12 10:01 **Analysis Comments:** 71 Drinking Water **Sample Comments:**	**Sample Logged In:** 01/28/12 17:02 **Sample Received:** 01/28/12 14:11 **Analyzed**	
Sample# 1201013-13 **Sample Name:** HW02 **Sample Type:** SAM Alcohols by EPA 8015D	**Lab\Report Matrix** Water\Drinking Water **Date Sampled** 01/25/12 12:58 **Expires:** 02/01/12 12:58 **Analysis Comments:** 71 Drinking Water **Sample Comments:**	**Sample Logged In:** 01/28/12 17:02 **Sample Received:** 01/28/12 14:11 **Analyzed**	
Sample# 1201013-14 **Sample Name:** HW02z **Sample Type:** SAM Alcohols by EPA 8015D	**Lab\Report Matrix** Water\Drinking Water **Date Sampled** 01/25/12 12:59 **Expires:** 02/01/12 12:59 **Analysis Comments:** 71 Drinking Water **Sample Comments:**	**Sample Logged In:** 01/28/12 17:02 **Sample Received:** 01/28/12 14:11 **Analyzed**	
Sample# 1201013-15 **Sample Name:** HW01 **Sample Type:** SAM Alcohols by EPA 8015D	**Lab\Report Matrix** Water\Drinking Water **Date Sampled** 01/25/12 16:31 **Expires:** 02/01/12 16:31 **Analysis Comments:** 71 Drinking Water **Sample Comments:**	**Sample Logged In:** 01/28/12 17:02 **Sample Received:** 01/28/12 14:11 **Analyzed**	
Sample# 1201013-16 **Sample Name:** HW05 **Sample Type:** SAM Alcohols by EPA 8015D	**Lab\Report Matrix** Water\Drinking Water **Date Sampled** 01/26/12 11:35 **Expires:** 02/02/12 11:35 **Analysis Comments:** 71 Drinking Water **Sample Comments:**	**Sample Logged In:** 01/28/12 17:02 **Sample Received:** 01/28/12 14:11 **Analyzed**	
Sample# 1201013-17 **Sample Name:** HW06 **Sample Type:** SAM Alcohols by EPA 8015D	**Lab\Report Matrix** Water\Drinking Water **Date Sampled** 01/26/12 15:30 **Expires:** 02/02/12 15:30 **Analysis Comments:** 71 Drinking Water **Sample Comments:**	**Sample Logged In:** 01/28/12 17:02 **Sample Received:** 01/28/12 14:11 **Analyzed**	

WORK ORDER

Printed: 2/9/2012 9:19:01AM

1201013

U.S. EPA Region 3 - FOR INTERNAL USE ONLY

Client: OSWER - Emergency Response
Project: DAS R33907
Final Report Due: 02/20/2012

Project Manager: Cindy Caporale
Site Name: Dimock Residential Groundwater
Acct#: 2012T03N303DC6A3TARS00

Report To:
Client Project Manager: Rich Fetzer
Email: fetzer.richard@epa.gov
Phone: (610) 861-2087
Fax: -

Project/WO Comments
Unvalidated data = 7 days (refer to Special Instructions)
Validated data = 21 days

Shelf

Analyst
EPA #3 Shelf 1B
EPA #3 Shelf 1C
EPA #3 Shelf 2B
EPA #3 Shelf 7B
EPA #3 Shelf 8B
EPA #3 Shelf 8C
EPA #5 VOA

Received By: Kevin Martin
Date Received: 01/25/12 10:40
Temperature Samples Received at 5°C
Custody Seals Yes
Containers Intact Yes
COC/Labels Agree Yes
Preservation Confirmed Yes
Received On Ice Yes
Radiation Checked Yes

ESAT INFO ONLY
Preliminary Report Due Date _____
ESAT Due Date _____
_____ Complete _____ Not Complete
_____ Need TDF _____ TDF #

Sample# 1201013-01
Sample Name: FB01
Sample Type: SAM
Alcohols by EPA 8015D
Lab\Report Matrix Water\Water
Date Sampled 01/23/12 14:42
Expires: 01/30/12 14:42
Analysis Comments: 71 Drinking Water
Sample Comments: VOC received 1/27/12
Sample Logged In: 01/25/12 11:35
Sample Received: 01/25/12 10:40
Analyzed

Sample# 1201013-03
Sample Name: HW19
Sample Type: SAM
Alcohols by EPA 8015D
Lab\Report Matrix Water\Drinking Water
Date Sampled 01/23/12 17:47
Expires: 01/30/12 17:47
Analysis Comments: 71 Drinking Water
Sample Comments: Some containers received on 1/26/12, VOC received 1/27/12
Sample Logged In: 01/25/12 11:35
Sample Received: 01/25/12 10:40
Analyzed

Sample# 1201013-05
Sample Name: HW19-P
Sample Type: SAM
Alcohols by EPA 8015D
Lab\Report Matrix Water\Drinking Water
Date Sampled 01/23/12 19:07
Expires: 01/30/12 19:07
Analysis Comments: 71 Drinking Water
Sample Comments: VOC received 1/27/12
Sample Logged In: 01/26/12 12:21
Sample Received: 01/26/12 11:50
Analyzed

Sample# 1201013-28
Sample Name: HW08a
Sample Type: SAM
Alcohols by EPA 8015D

Lab\Report Matrix Water\Drinking Water
Date Sampled 01/25/12 11:46
Expires: 02/01/12 11:46
Analysis Comments: 71 Drinking Water
Sample Comments: QC sample

Sample Logged In: 01/28/12 17:02
Sample Received: 01/28/12 14:11
Analyzed

Sample# 1201013-29
Sample Name: FB04
Sample Type: SAM
Alcohols by EPA 8015D

Lab\Report Matrix Water\Water
Date Sampled 01/26/12 09:13
Expires: 02/02/12 09:13
Analysis Comments: 71 Drinking Water
Sample Comments:

Sample Logged In: 01/30/12 13:25
Sample Received: 01/30/12 09:20
Analyzed

Sample# 1201013-30
Sample Name: FB05
Sample Type: SAM
Alcohols by EPA 8015D

Lab\Report Matrix Water\Water
Date Sampled 01/27/12 09:40
Expires: 02/03/12 09:40
Analysis Comments: 71 Drinking Water
Sample Comments:

Sample Logged In: 01/30/12 13:25
Sample Received: 01/30/12 09:20
Analyzed

Sample# 1201013-31
Sample Name: HW24
Sample Type: SAM
Alcohols by EPA 8015D

Lab\Report Matrix Water\Drinking Water
Date Sampled 01/27/12 12:09
Expires: 02/03/12 12:09
Analysis Comments: 71 Drinking Water
Sample Comments:

Sample Logged In: 01/30/12 13:25
Sample Received: 01/30/12 09:20
Analyzed

Sample# 1201013-32
Sample Name: HW24-P
Sample Type: SAM
Alcohols by EPA 8015D

Lab\Report Matrix Water\Drinking Water
Date Sampled 01/27/12 13:18
Expires: 02/03/12 13:18
Analysis Comments: 71 Drinking Water
Sample Comments:

Sample Logged In: 01/30/12 13:25
Sample Received: 01/30/12 09:20
Analyzed

Sample# 1201013-33
Sample Name: HW12
Sample Type: SAM
Alcohols by EPA 8015D

Lab\Report Matrix Water\Drinking Water
Date Sampled 01/26/12 13:23
Expires: 02/02/12 13:23
Analysis Comments: 71 Drinking Water
Sample Comments: No O&G sample

Sample Logged In: 01/30/12 13:25
Sample Received: 01/30/12 09:20
Analyzed

Sample# 1201013-34
Sample Name: HW17
Sample Type: SAM
Alcohols by EPA 8015D

Lab\Report Matrix Water\Drinking Water
Date Sampled 01/27/12 11:40
Expires: 02/03/12 11:40
Analysis Comments: 71 Drinking Water
Sample Comments:

Sample Logged In: 01/30/12 13:25
Sample Received: 01/30/12 09:20
Analyzed

Sample# 1201013-35
Sample Name: HW14
Sample Type: SAM
Alcohols by EPA 8015D

Lab\Report Matrix Water\Drinking Water
Date Sampled 01/26/12 17:13
Expires: 02/02/12 17:13
Analysis Comments: 71 Drinking Water
Sample Comments:

Sample Logged In: 01/30/12 13:25
Sample Received: 01/30/12 09:20
Analyzed

Sample#	1201013-36	**Lab\Report Matrix**	Water\Drinking Water	**Sample Logged In:**	01/30/12 13:25
Sample Name:	HW14-P	**Date Sampled**	01/26/12 19:15	**Sample Received:**	01/30/12 09:20
Sample Type:	SAM				
Alcohols by EPA 8015D		**Expires:**	02/02/12 19:15	**Analyzed**	
		Analysis Comments:	71 Drinking Water		
		Sample Comments:			

Sample Assignment Memo for: Dimock Residential Groundwater; DAS R33907; WO#1201013
Kevin Martin to: R3 ESC-LB 01/25/2012 12:35 PM
Cc: Kevin Martin

Sample Assignment Memo for: Dimock Residential Groundwater; DAS R33907; WO#1201013

Parameter(s)	Matrix	Number of Samples	pH	Analyst	Location
Alcohols	AQ	2	-	AM	EPA #3 shelf 8C
Anions	AQ	2	7	RA	EPA #3 shelf 8C
Glycols	AQ	2	-	JG	Analyst
Nitrite+Nitrate	AQ	1	2	JC	EPA #3 shelf 8C
Oil & Grease	AQ	2	2	RA/JC	EPA #3 shelf 8C
SVOCs	AQ	1	7	EG/KP	Analyst
TDS	AQ	1	7	JC	EPA #3 shelf 8C
TSS	AQ	1	7	JC	EPA #3 shelf 8C
Mercury	AQ	3	2	SG	Analyst
Metals	AQ	3	2	RC/JD	Analyst
Total Nitrogen	AQ	1	2	JC	EPA #3 shelf 8C
Total Phos	AQ	1	2	RA/JC	EPA #3 shelf 8C

Temperature Blank: 5 °C

Due Date: 2/15/12

Comments: NA

For Corrections/Omissions call Robin

Thank You,

Kevin Martin

Kevin Martin, Chemist
Environmental Science Center
701 Mapes Road
Fort Meade, MD 20755-5350
(410) 305-3032

Sample Assignment Memo for: Dimock Residential Groundwater; DAS R33907; WO#1201013
Kevin Martin to: R3 ESC-LB 01/26/2012 12:32 PM
Cc: Kevin Martin

Sample Assignment Memo for: Dimock Residential Groundwater; DAS R33907; WO#1201013

Parameter(s)	Matrix	Number of Samples	pH	Analyst	Location
Alcohols	AQ	1	-	AM	EPA #3 shelf 8C
Anions	AQ	1	7	RA	EPA #3 shelf 8C
Glycols	AQ	1	-	JG	Analyst
Nitrite+Nitrate	AQ	2	2	JC	EPA #3 shelf 8C
Oil & Grease	AQ	1	2	RA/JC	EPA #3 shelf 8C
SVOCs	AQ	2	7	EG/KP	Analyst
TDS	AQ	2	7	JC	EPA #3 shelf 8C
TSS	AQ	2	7	JC	EPA #3 shelf 8C
Mercury	AQ	3	2	SG	Analyst
Metals	AQ	3	2	RC/JD	Analyst
Total Nitrogen	AQ	2	2	JC	EPA #3 shelf 8C
Total Phos	AQ	2	2	RA/JC	EPA #3 shelf 8C

Temperature Blank: 2 °C

Due Date: 2/16/12

Comments: NA

For Corrections/Omissions call Robin

Thank You,

Kevin Martin

Kevin Martin, Chemist
Environmental Science Center
701 Mapes Road
Fort Meade, MD 20755-5350
(410) 305-3032

Sample Assignment Memo for: Dimock Residential Groundwater; DAS R33907; WO#1201013
John Curry to: R3 ESC-LB 01/27/2012 03:45 PM
Cc: Kevin Martin

Sample Assignment Memo for: Dimock Residential Groundwater; DAS R33907; WO#1201013

Parameter(s)	Matrix	# of Samples	pH	Analyst	Location
Anions	Water	2	7	RA	EPA 8C
Metals/Mercury (Total) and Filtered	Water	2/2	<2	JD/RC/SG	Analyst
Oil & Grease	Water	2	<2	RA/JDC	EPA 8C
Alcohol	Water	2	NA	AM	EPA 8C
Glycols	Water	2	NA	JG	Analyst
TDS/TSS	Water	2	7	JDC	EPA 8C
Total Phos/Total N	Water	2	<2	JDC/RA	EPA 8C
Nitrate/Nitrite	Water	2	7	JDC	EPA 8C
SVOC	Water	2	7	EG	EPA 8C
VOC	Water	6	NA	SW/PZ	Analyst

Temperature Blank: 4/5/2 °C

Due Date: 2/17/12

Comments: NA

For Corrections/Omissions call Robin

****

John D. Curry
Office of Analytical Services & Quality Assurance
EPA Region III
701 Mapes Road
Ft. Meade, MD 20755-5350
410-305-2608 (voice)
410-305-3093 (fax)
Curry.John@epa.gov
****

Sample Assignment Memo for: Dimock Residential Groundwater; DAS R33907; WO#1201013
Kevin Martin to: R3 ESC-LB 01/28/2012 06:45 PM
Cc: Kevin Martin

Sample Assignment Memo for: Dimock Residential Groundwater; DAS R33907; WO#1201013

Parameter(s)	Matrix	Number of Samples	pH	Analyst	Location
Alcohols	AQ	7	-	AM	Analyst
Anions	AQ	7	7	RA	EPA #3 shelf 8B
Glycols	AQ	7	-	JG	EPA #3 shelf 8B
Nitrite+Nitrate	AQ	7	2	JC	EPA #3 shelf 1C
Oil & Grease	AQ	8	2	RA/JC	EPA #3 shelf 2B
SVOCs	AQ	7	7	EG/KP	EPA #3 shelf 2B
TDS	AQ	7	7	JC	EPA #3 shelf 1C
TSS	AQ	7	7	JC	EPA #3 shelf 1C
Mercury	AQ	14	2*	SG	EPA #3 shelf 1B
Metals	AQ	14	2*	RC/JD	EPA #3 shelf 1B
Total Nitrogen	AQ	7	2	JC	EPA #3 shelf 1C
Total Phos	AQ	7	2	RA/JC	EPA #3 shelf 1C
VOCs	AQ	9	-	SW/PZ	EPA #5 VOA
* Sample (1201013-018) had a pH of 6					

Temperature Blank: Cooler 4 (1/28/12) 6°C
Cooler 5 (1/28/12) 6°C
Cooler 6 (1/28/12) 7°C
Cooler 7 (1/28/12) 7°C
Cooler 8 (1/28/12) 8°C
Cooler 9 (1/28/12) 7°C

Due Date: 2/18/12

Comments: NA

For Corrections/Omissions call Robin

Thank You,

Kevin Martin, Chemist
Environmental Science Center
701 Mapes Road
Fort Meade, MD 20755-5350
(410) 305-3032

Sample Assignment Memo for: Dimock Residential Groundwater; DAS R33907; WO#1201013
Kevin Martin to: R3 ESC-LB 01/30/2012 03:10 PM
Cc: Kevin Martin

Sample Assignment Memo for: Dimock Residential Groundwater; DAS R33907; WO#1201013

Parameter(s)	Matrix	Number of Samples	pH	Analyst	Location
Alcohols	AQ	8	-	AM	Analyst
Anions	AQ	8	6-7	RA	EPA #3 shelf 2B
Glycols	AQ	8	-	JG	Analyst
Nitrite+Nitrate	AQ	8	2	JC	EPA #3 shelf 2B
Oil & Grease	AQ	7	2	RA/JC	EPA #3 shelf 8B
SVOCs	AQ	8	6-7	EG/KP	EPA #3 shelf 7B
TDS	AQ	8	6-7	JC	EPA #3 shelf 2B
TSS	AQ	8	6-7	JC	EPA #3 shelf 2B
Mercury	AQ	16	2	SG	Analyst
Metals	AQ	16	2	RC/JD	Analyst
Total Nitrogen	AQ	8	2	JC	EPA #3 shelf 2B
Total Phos	AQ	8	2	RA/JC	EPA #3 shelf 2B
VOCs	AQ	12*	-	SW/PZ	EPA #5 VOA

Temperature Blank: Cooler 10 (1/30/12) 4°C
Cooler 11 (1/30/12) 3°C
Cooler 12 (1/30/12) 2°C
Cooler 13 (1/30/12) 3°C
Cooler 14 (1/30/12) 2°C
Cooler 15 (1/30/12) No temp blank
Cooler 16 (1/30/12) 3°C

Due Date: 2/20/11

Comments: NA

For Corrections/Omissions call Robin

Thank You,

Kevin Martin, Chemist
Environmental Science Center
701 Mapes Road
Fort Meade, MD 20755-5350
(410) 305-3032

Case File Contents

Alcohols

Alcohols by EPA 8015D

WO 1201013

Dimock Residential Groundwater

DAS R33907

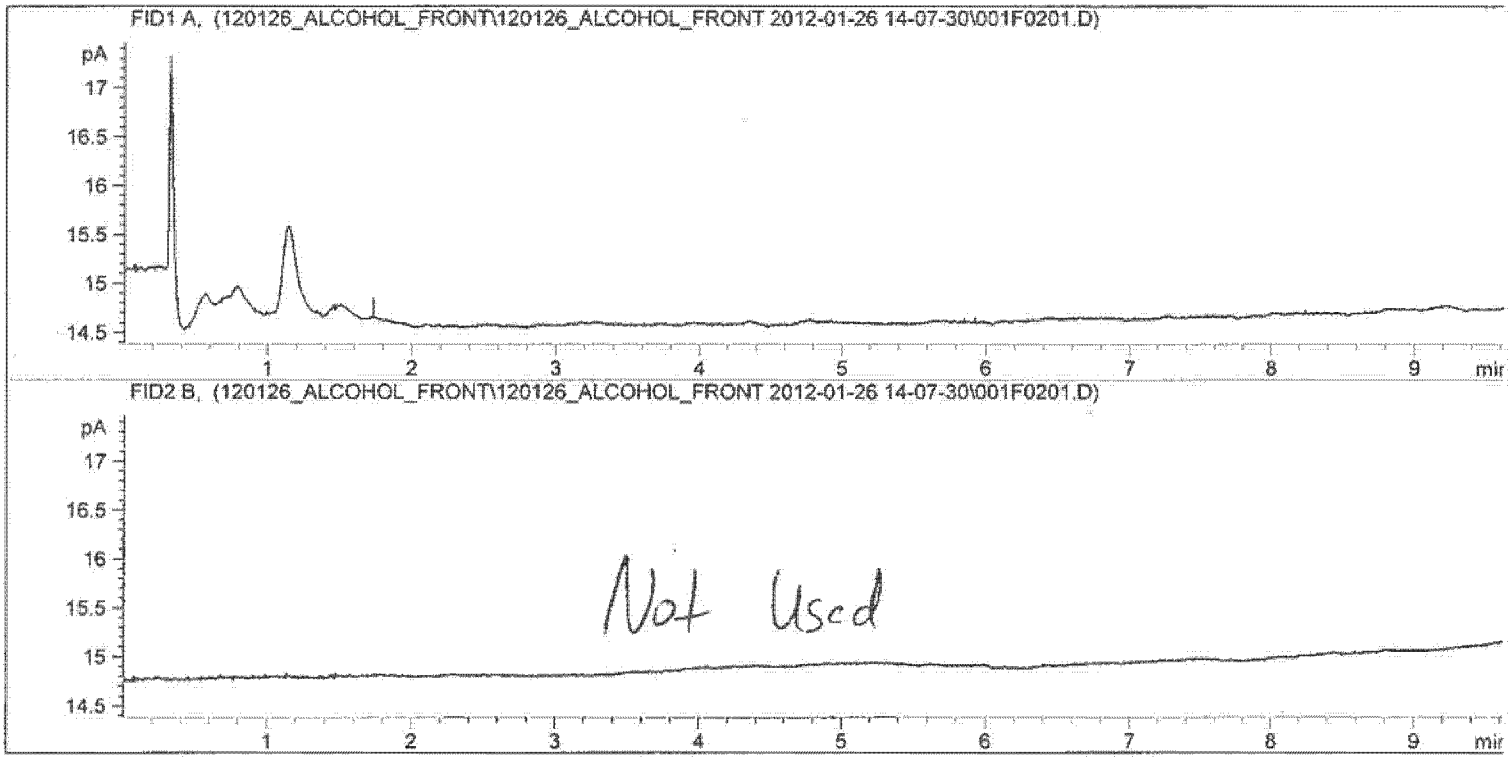
Quality Control Data

Data File C:\CHEM32\...6_ALCOHOL_FRONT\120126_ALCOHOL_FRONT 2012-01-26 14-07-30\001F0201.D
Sample Name: IBL1

Acq. Operator	: ACM	Seq. Line :	2
Acq. Instrument	: AG3-6890N	Location :	Vial 1
Injection Date	: 1/26/2012 2:24:02 PM	Inj :	1
		Inj Volume :	1 µl

Acq. Method : C:\CHEM32\1\DATA\120126_ALCOHOL_FRONT\120126_ALCOHOL_FRONT 2012-01-26 14-07-30\ALCOHOLS_FRONT.M
Last changed : 1/26/2012 1:39:57 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_120126.M
Last changed : 1/27/2012 8:22:15 AM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : water



External Standard Report

Sorted By : Signal
Calib. Data Modified : 1/27/2012 8:21:45 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.517		-	-	-		Methanol
1.742		-	-	-		Ethanol
2.533		-	-	-		1-Propanol

AM
1-27-12

Data File C:\CHEM32\...6_ALCOHOL_FRONT\120126_ALCOHOL_FRONT 2012-01-26 14-07-30\001F0201.D
Sample Name: IBL1

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.763		-	-	-		sec-Butanol
4.781		-	-	-		1-Butanol

Totals : 0.00000

Signal 2: FID2 B,

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 1/27/2012 8:21:45 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.517		0.0000	0.00000	0.00000	Methanol
2	1.742		0.0000	0.00000	0.00000	Ethanol
3	2.533		0.0000	0.00000	0.00000	1-Propanol
4	2.763		0.0000	0.00000	0.00000	sec-Butanol
5	4.781		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

Signal 2: FID2 B,

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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*** End of Report ***

Not Used
AM 1-27-12

Data File C:\CHEM32\...6_ALCOHOL_FRONT\120126_ALCOHOL_FRONT 2012-01-26 14-07-30\001F1001.D
Sample Name: IBL2

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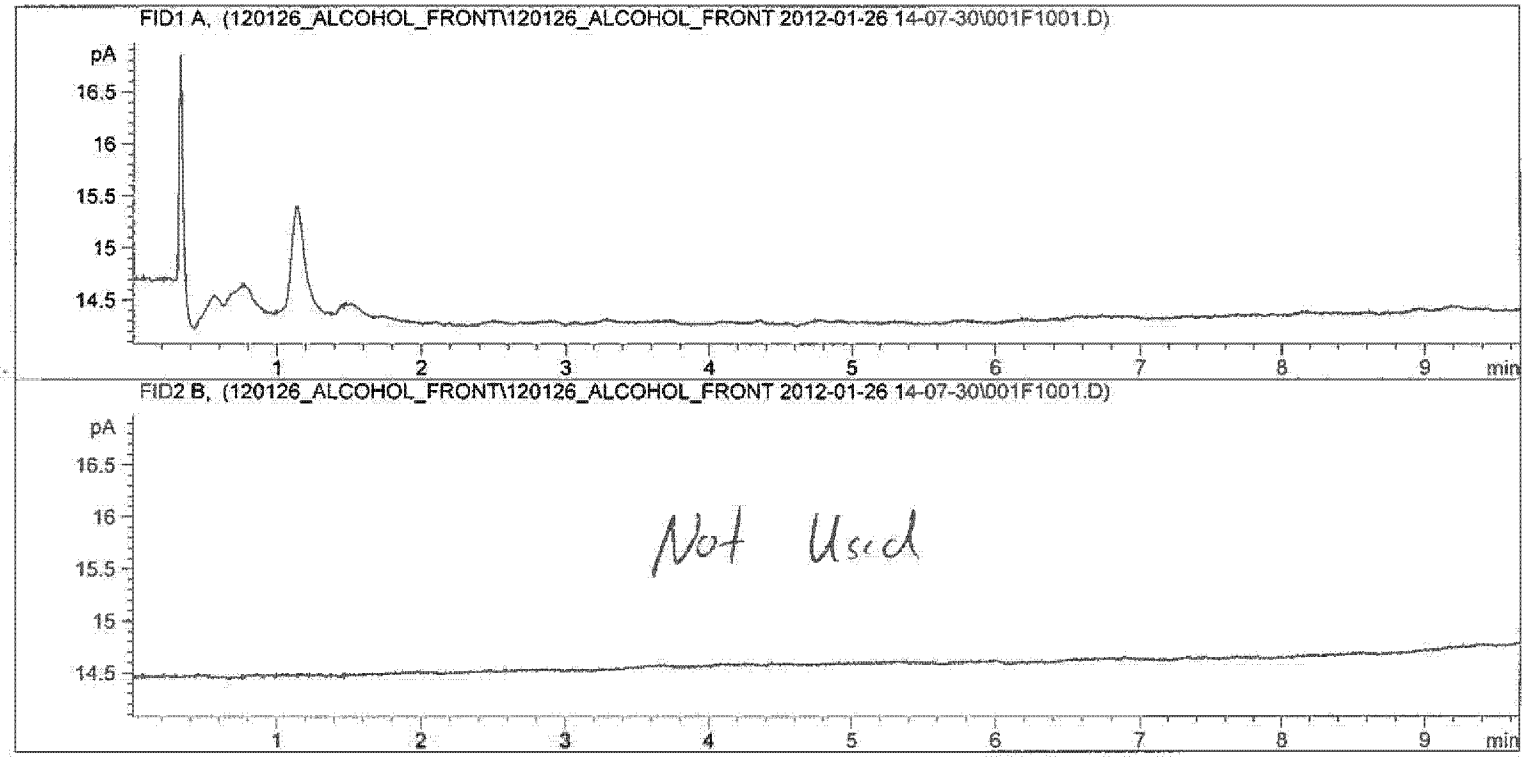
Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 1/26/2012 4:14:42 PM

Seq. Line : 10
Location : Vial 1
Inj : 1
Inj Volume : 1 µl

Acq. Method : C:\CHEM32\1\DATA\120126_ALCOHOL_FRONT\120126_ALCOHOL_FRONT 2012-01-26 14-07-30\ALCOHOLS_FRONT.M
Last changed : 1/26/2012 1:39:57 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_120126.M
Last changed : 1/27/2012 8:22:15 AM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : water



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 1/27/2012 8:21:45 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Am

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.517		-	-	-		Methanol
1.742		-	-	-		Ethanol
2.533		-	-	-		1-Propanol

Data File C:\CHEM32\...6_ALCOHOL_FRONT\120126_ALCOHOL_FRONT 2012-01-26 14-07-30\001F1001.D
Sample Name: IBL2

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.763		-	-	-		sec-Butanol
4.781		-	-	-		1-Butanol

Totals : 0.00000

Signal 2: FID2 B,

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 1/27/2012 8:21:45 AM
Multiplier : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.517		0.0000	0.00000	0.00000	Methanol
2	1.742		0.0000	0.00000	0.00000	Ethanol
3	2.533		0.0000	0.00000	0.00000	1-Propanol
4	2.763		0.0000	0.00000	0.00000	sec-Butanol
5	4.781		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

Signal 2: FID2 B,

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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*** End of Report ***

Not Used
An
1-27-12

Data File C:\CHEM32\...6_ALCOHOL_FRONT\120126_ALCOHOL_FRONT 2012-01-26 14-07-30\001F2101.D
Sample Name: IBL3

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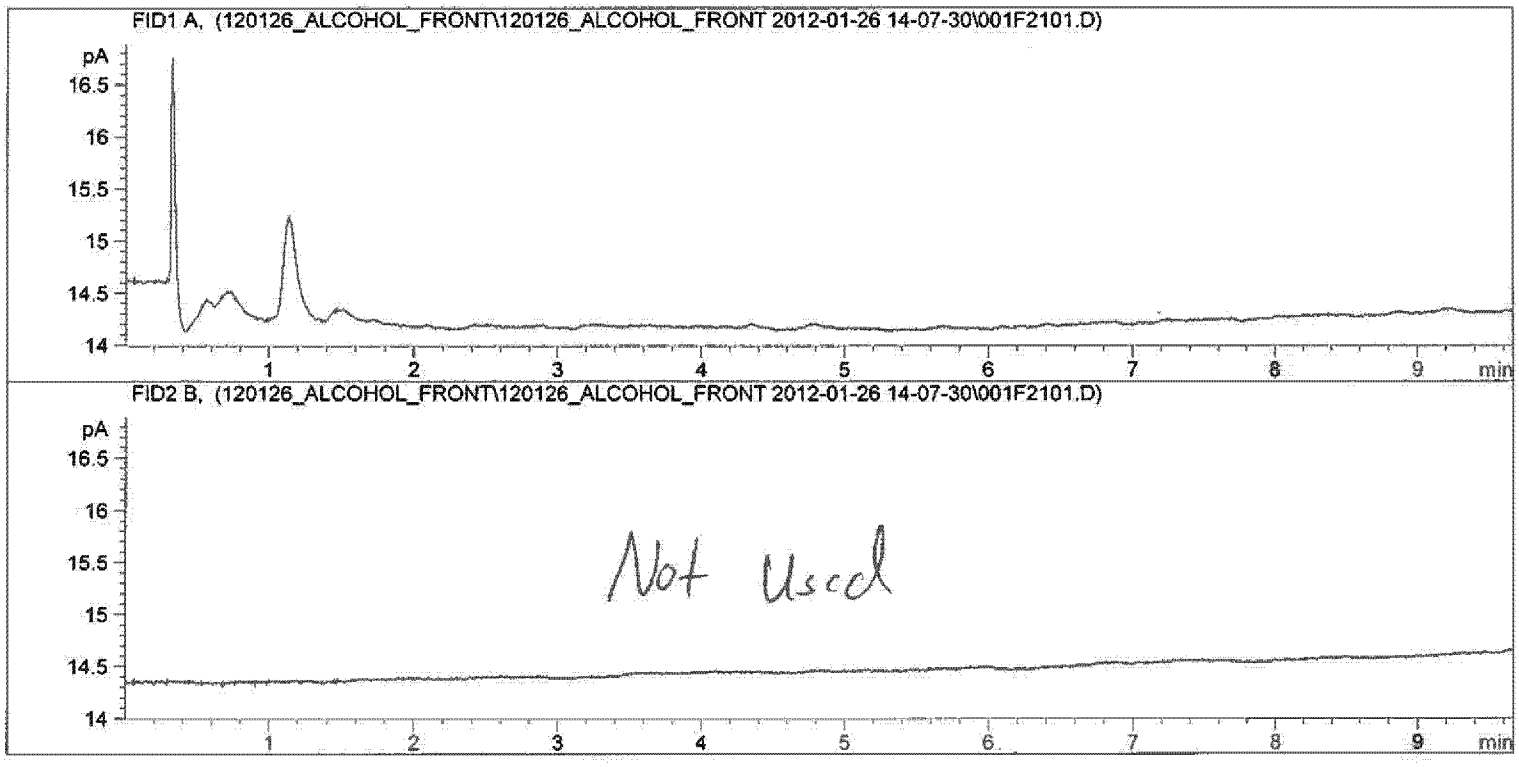
Acq. Operator : ACM
Seq. Line : 21
Acq. Instrument : AG3-6890N
Location : Vial 1
Injection Date : 1/26/2012 6:46:50 PM
Inj : 1
Inj Volume : 1 µl
Acq. Method : C:\CHEM32\1\DATA\120126_ALCOHOL_FRONT\120126_ALCOHOL_FRONT 2012-01-26 14-07-30\ALCOHOLS_FRONT.M
Last changed : 1/26/2012 1:39:57 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_120126.M
Last changed : 1/27/2012 8:22:15 AM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : water



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 1/27/2012 8:21:45 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

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Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.517		-	-	-		Methanol
1.742		-	-	-		Ethanol
2.533		-	-	-		1-Propanol

Data File C:\CHEM32\...6_ALCOHOL_FRONT\120126_ALCOHOL_FRONT 2012-01-26 14-07-30\001F2101.D
Sample Name: IBL3

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.763		-	-	-		sec-Butanol
4.781		-	-	-		1-Butanol

Totals : 0.00000

Signal 2: FID2 B,

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report
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Sorted By : Signal
Calib. Data Modified : 1/27/2012 8:21:45 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.517		0.0000	0.00000	0.00000	Methanol
2	1.742		0.0000	0.00000	0.00000	Ethanol
3	2.533		0.0000	0.00000	0.00000	1-Propanol
4	2.763		0.0000	0.00000	0.00000	sec-Butanol
5	4.781		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

Signal 2: FID2 B,

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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*** End of Report ***

Not Used

Am

Data File C:\CHEM32\...6_ALCOHOL_FRONT\120126_ALCOHOL_FRONT 2012-01-26 14-07-30\005F2201.D
Sample Name: CCV1

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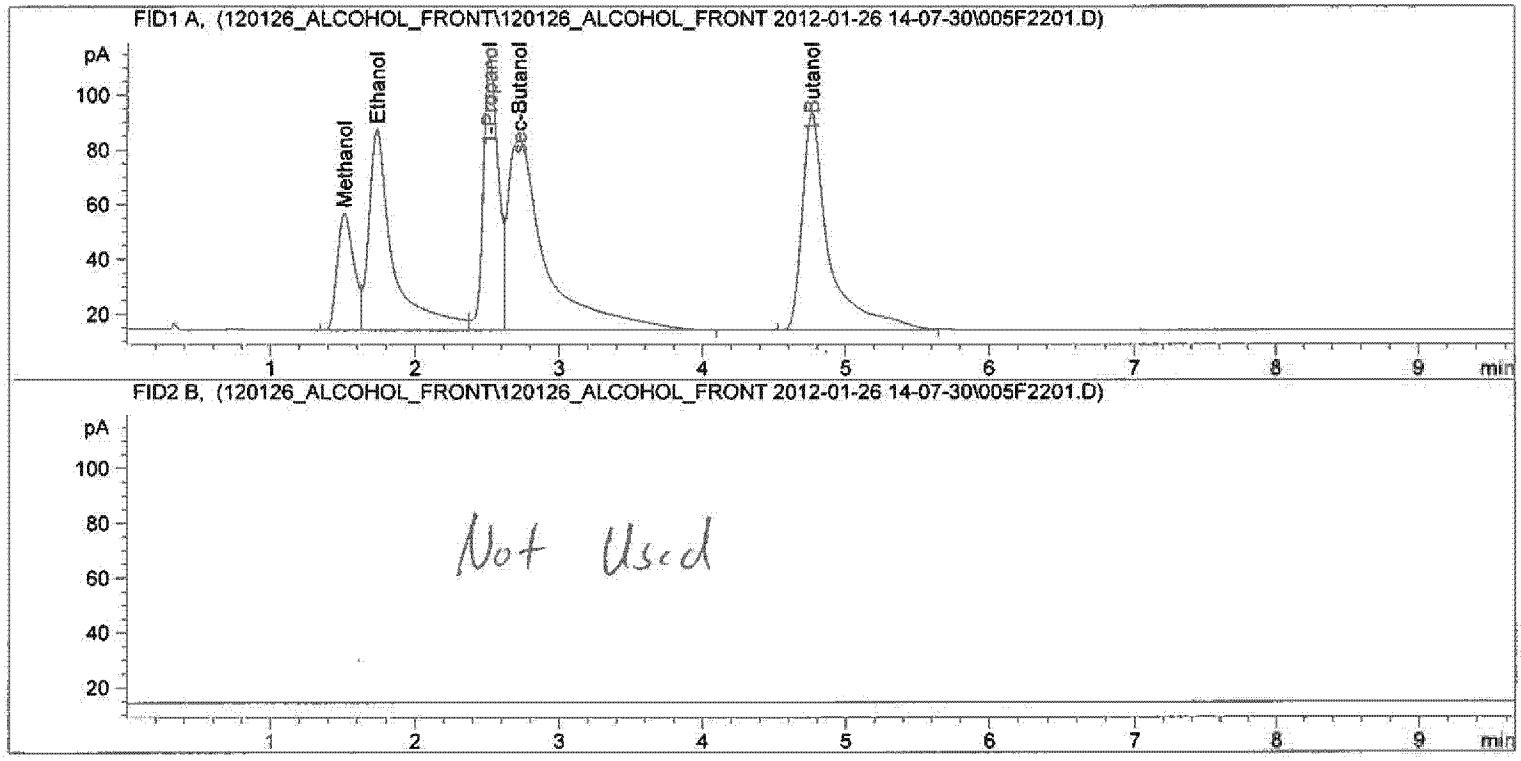
Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 1/26/2012 7:00:41 PM

Seq. Line : 22
Location : Vial 5
Inj : 1
Inj Volume : 1 µl

Acq. Method : C:\CHEM32\1\DATA\120126_ALCOHOL_FRONT\120126_ALCOHOL_FRONT 2012-01-26 14-07-30\ALCOHOLS_FRONT.M
Last changed : 1/26/2012 1:39:57 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_120126.M
Last changed : 1/27/2012 8:22:15 AM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : ALCal4-111122-ACM



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 1/27/2012 8:21:45 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%Diff
1.513	VV	339.39499	2.90682e-1	98.65587		Methanol	1.34
1.736	VV	848.20367	1.12637e-1	95.53927		Ethanol	4.46
2.514	VV	714.03583	1.45631e-1	103.98585		1-Propanol	3.99

Data File C:\CHEM32\...6_ALCOHOL_FRONT\120126_ALCOHOL_FRONT 2012-01-26 14-07-30\005F2201.D
Sample Name: CCV1

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%Diff
2.720	VB	1277.73950	7.92437e-2	101.25280		sec-Butanol	1.25
4.765	BV	1027.67566	9.53233e-2	97.96144		1-Butanol	2.04
Totals :				497.39522			

Signal 2: FID2 B,

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*** End of Report ***

Pass all

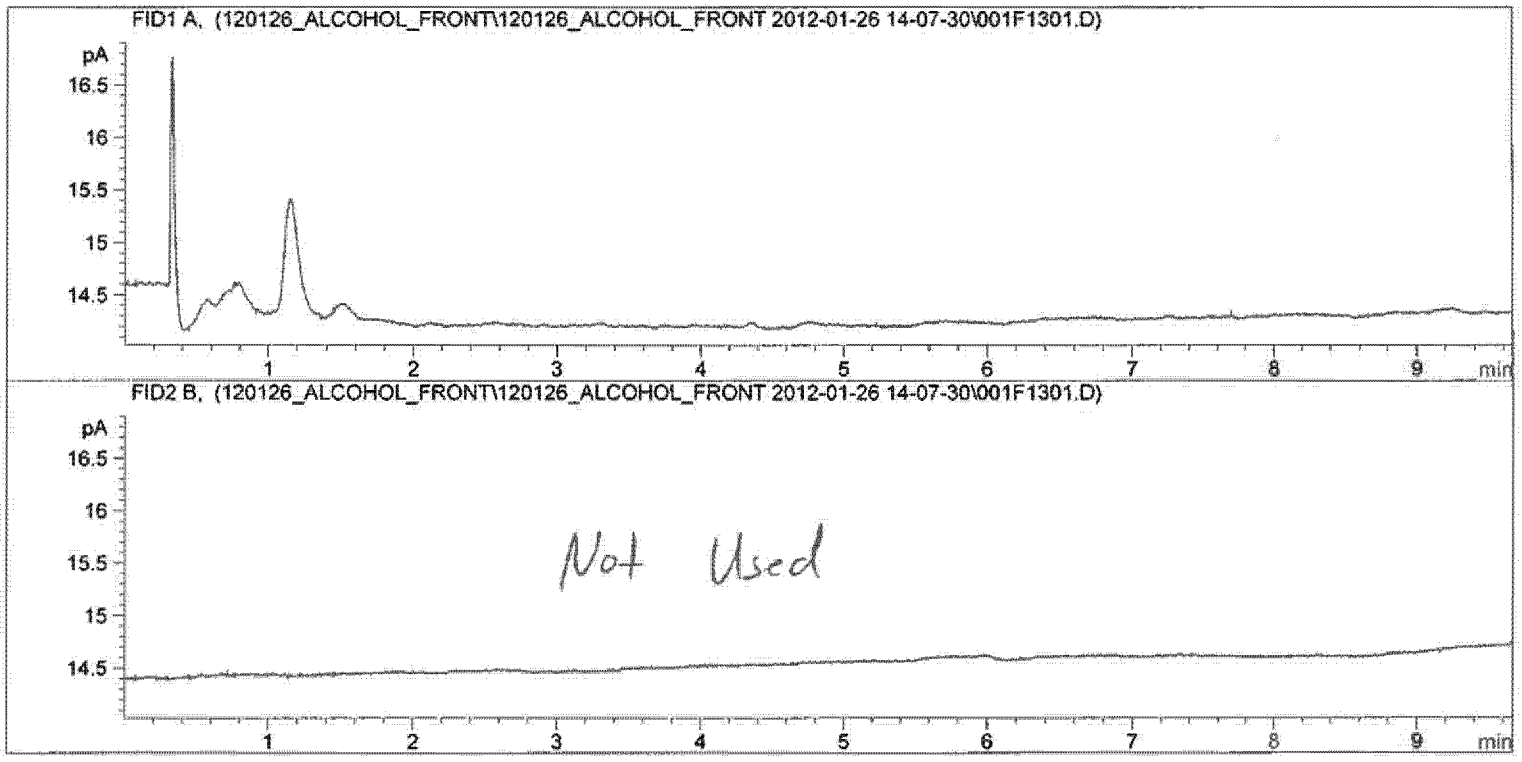
Ar

Data File C:\CHEM32\...6_ALCOHOL_FRONT\120126_ALCOHOL_FRONT 2012-01-26 14-07-30\001F1301.D
Sample Name: Blank 1/26/12
BA22701-BIK1

Acq. Operator	: ACM	Seq. Line :	13
Acq. Instrument	: AG3-6890N	Location :	Vial 1
Injection Date	: 1/26/2012 4:56:10 PM	Inj :	1
		Inj Volume :	1 µl

Acq. Method : C:\CHEM32\1\DATA\120126_ALCOHOL_FRONT\120126_ALCOHOL_FRONT 2012-01-26 14-07-30\ALCOHOLS_FRONT.M
Last changed : 1/26/2012 1:39:57 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_120126.M
Last changed : 1/27/2012 8:22:15 AM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : water



External Standard Report

Sorted By : Signal
Calib. Data Modified : 1/27/2012 8:21:45 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.517		-	-	-		Methanol
1.742		-	-	-		Ethanol
2.533		-	-	-		1-Propanol

Data File C:\CHEM32\...6_ALCOHOL_FRONT\120126_ALCOHOL_FRONT 2012-01-26 14-07-30\001F1301.D
Sample Name: Blank 1/26/12

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.763		-	-	-		sec-Butanol
4.781		-	-	-		1-Butanol

Totals : 0.00000

Signal 2: FID2 B,

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 1/27/2012 8:21:45 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.517		0.0000	0.00000	0.00000	Methanol
2	1.742		0.0000	0.00000	0.00000	Ethanol
3	2.533		0.0000	0.00000	0.00000	1-Propanol
4	2.763		0.0000	0.00000	0.00000	sec-Butanol
5	4.781		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

Signal 2: FID2 B,

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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*** End of Report ***

Not Used
A
1-27-12

Data File C:\CHEM32\...6_ALCOHOL_FRONT\120126_ALCOHOL_FRONT 2012-01-26 14-07-30\009F1401.D
Sample Name: BS 1/26/12

BA22701-BS1

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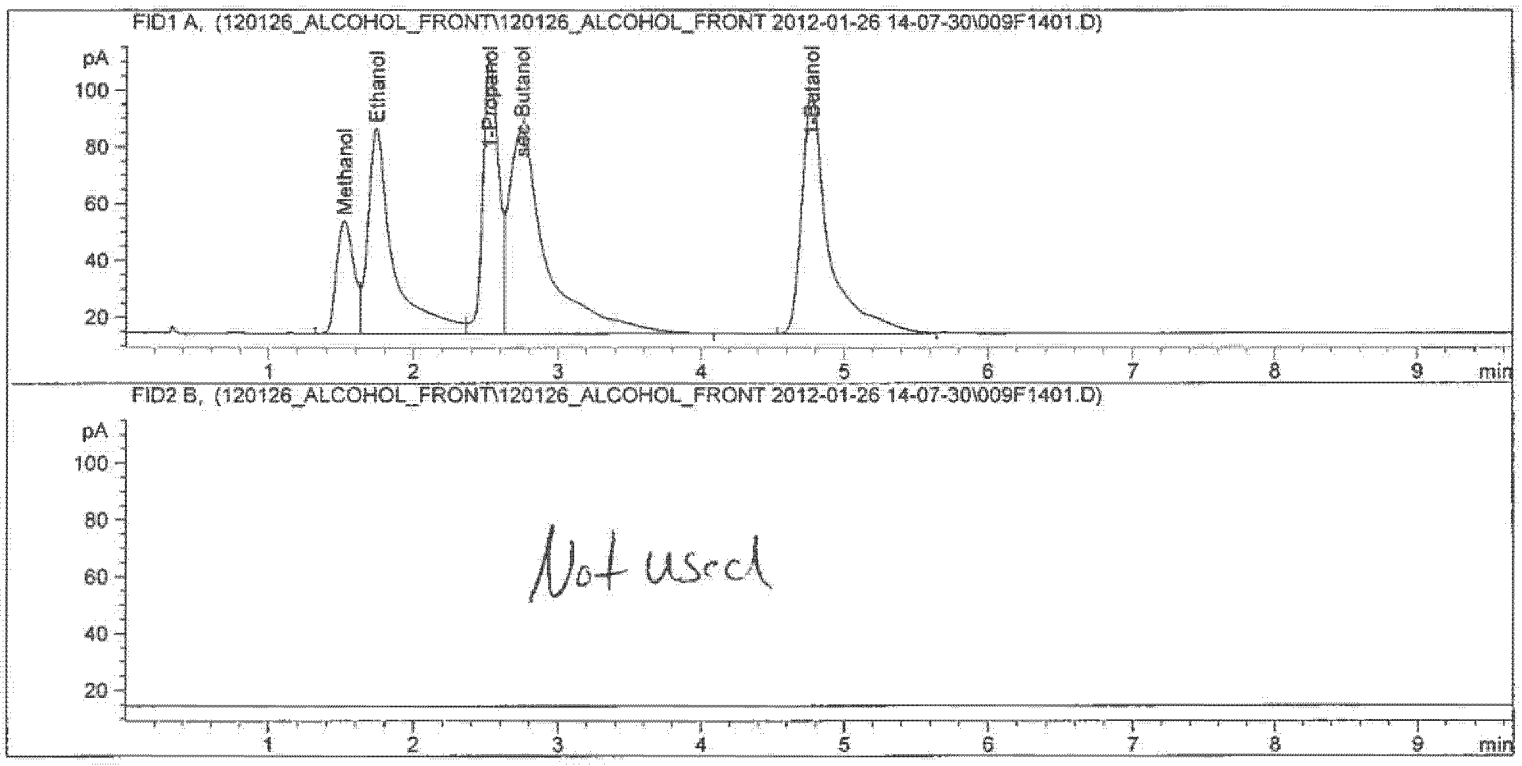
Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 1/26/2012 5:10:00 PM

Seq. Line : 14
Location : Vial 9
Inj : 1
Inj Volume : 1 µl

Acq. Method : C:\CHEM32\1\DATA\120126_ALCOHOL_FRONT\120126_ALCOHOL_FRONT 2012-01-26 14-07-30\ALCOHOLS_FRONT.M
Last changed : 1/26/2012 1:39:57 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_120126.M
Last changed : 1/27/2012 8:22:15 AM by ACM
Method Info : FID method for Alcohol analysis



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 1/27/2012 8:21:45 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	% Rec
1.522	VV	331.09366	2.91402e-1	96.48134		Methanol	96.5
1.744	VV	872.77625	1.12533e-1	98.21647		Ethanol	98.2
2.523	VV	733.70850	1.45594e-1	106.82368		1-Propanol	106.8
2.749	VB	1301.08069	7.93740e-2	103.27204		sec-Butanol	103.3
4.770	BV	1093.76672	9.51302e-2	104.05026		1-Butanol	104.0

Data File C:\CHEM32\...6_ALCOHOL_FRONT\120126_ALCOHOL_FRONT 2012-01-26 14-07-30\009F1401.D
Sample Name: BS 1/26/12

Totals : 508.84380

Signal 2: FID2 B,

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*** End of Report ***

- passes all

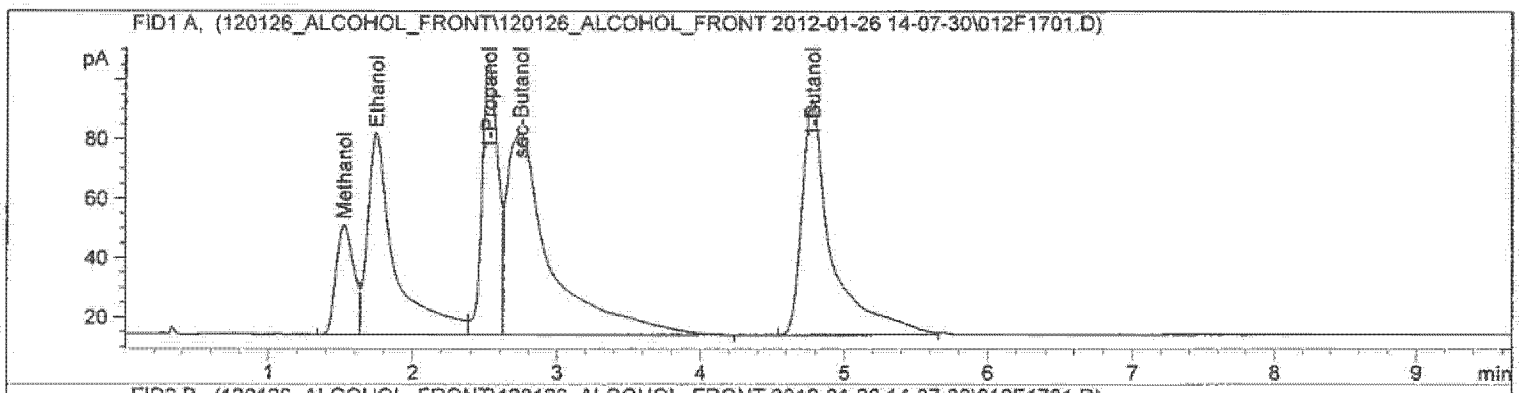
Am

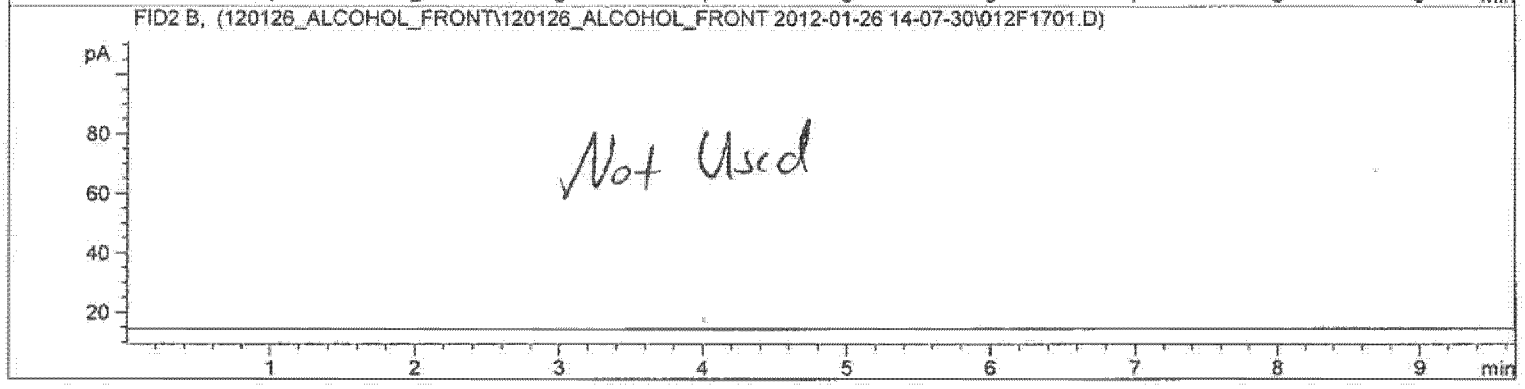
Data File C:\CHEM32\...6_ALCOHOL_FRONT\120126_ALCOHOL_FRONT 2012-01-26 14-07-30\012F1701.D
Sample Name: 1201013-03ms

BA22701- MS1

Acq. Operator	: ACM	Seq. Line	: 17
Acq. Instrument	: AG3-6890N	Location	: Vial 12
Injection Date	: 1/26/2012 5:51:29 PM	Inj	: 1
		Inj Volume	: 1 µl

Acq. Method : C:\CHEM32\1\DATA\120126_ALCOHOL_FRONT\120126_ALCOHOL_FRONT 2012-01-26 14-07-30\ALCOHOLS_FRONT.M
Last changed : 1/26/2012 1:39:57 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_120126.M
Last changed : 1/27/2012 8:22:15 AM by ACM
Method Info : FID method for Alcohol analysis





External Standard Report

Sorted By : Signal
Calib. Data Modified : 1/27/2012 8:21:45 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

AM

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	% Rec
1.522	BV	309.71985	2.93435e-1	90.88250		Methanol	90.9
1.745	VV	885.84296	1.12481e-1	99.64010		Ethanol	99.6
2.523	VV	702.18671	1.45654e-1	102.27658		1-Propanol	102.3
2.744	VB	1433.31775	8.00324e-2	114.71186		sec-Butanol	114.7
4.778	BV	1125.20740	9.50463e-2	106.94682		1-Butanol	106.9

Data File C:\CHEM32\...6_ALCOHOL_FRONT\120126_ALCOHOL_FRONT 2012-01-26 14-07-30\012F1701.D
Sample Name: 1201013-03ms

Totals : 514.45786

Signal 2: FID2 B,

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*** End of Report ***

- poss

Ah

Data File C:\CHEM32\...6_ALCOHOL_FRONT\120126_ALCOHOL_FRONT 2012-01-26 14-07-30\013F1801.D
Sample Name: 1201013-03msd

BA22701-MSD1

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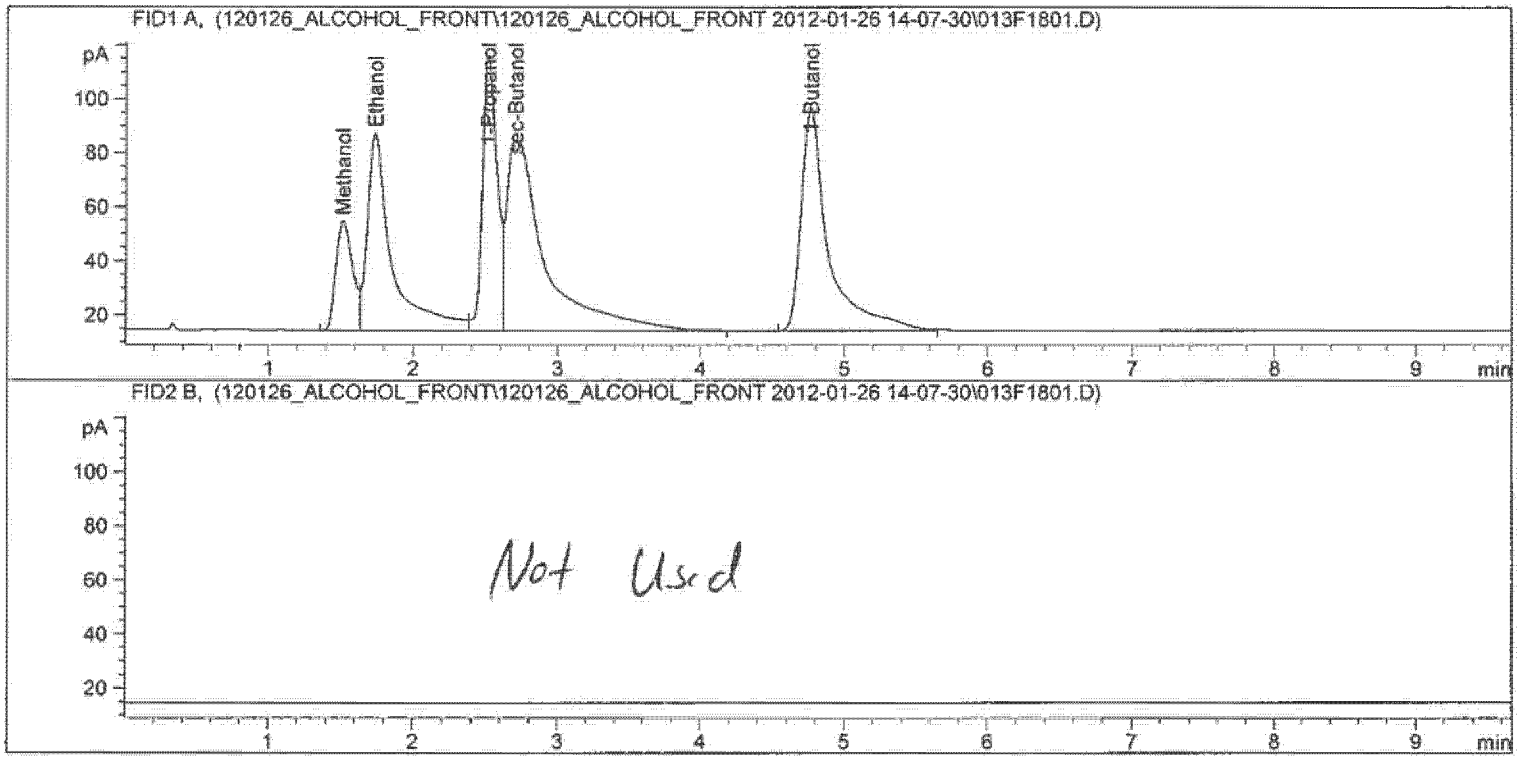
Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 1/26/2012 6:05:20 PM
Seq. Line : 18
Location : Vial 13
Inj : 1
Inj Volume : 1 µl
Acq. Method : C:\CHEM32\1\DATA\120126_ALCOHOL_FRONT\120126_ALCOHOL_FRONT 2012-01-26 14-07-30\ALCOHOLS_FRONT.M
Last changed : 1/26/2012 1:39:57 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_120126.M
Last changed : 1/27/2012 8:22:15 AM by ACM
Method Info : FID method for Alcohol analysis



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 1/27/2012 8:21:45 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	% Rec
1.517	VV	324.62137	2.91989e-1	94.78593		Methanol	94.8
1.740	VV	854.78760	1.12609e-1	96.25660		Ethanol	96.3
2.517	VV	709.44635	1.45640e-1	103.32380		1-Propanol	103.3
2.706	VB	1310.69336	7.94264e-2	104.10363		sec-Butanol	104.1
4.770	BV	1078.30554	9.51733e-2	102.62586		1-Butanol	102.6

Totals : 501.09582

Signal 2: FID2 B,

*** End of Report ***

% RPD

$$\left[\frac{|R_1 - R_2|}{Avg(R_1, R_2)}\right] 100$$

$$MeOH = \left[\frac{|94.8 - 90.9|}{Avg(94.8, 90.9)}\right] 100 = \left(\frac{3.9}{92.85}\right) 100 = 4.20\%$$

$$EtOH = \left[\frac{|96.3 - 99.6|}{Avg(96.3, 99.6)}\right] 100 = \left(\frac{3.3}{97.95}\right) 100 = 3.37\%$$

$$1\text{-}Prop = \left[\frac{|103.3 - 102.3|}{Avg(103.3, 102.3)}\right] 100 = \left(\frac{1}{102.8}\right) 100 = 0.973\%$$

$$sec\text{-}butanol = \left[\frac{|114.7 - 104.1|}{Avg(114.7, 104.1)}\right] 100 = 100\left(\frac{10.6}{109.4}\right) = 9.69\%$$

$$1\text{-}butanol = \left[\frac{|106.9 - 102.6|}{Avg(106.9, 102.6)}\right] 100 = \left(\frac{4.3}{104.75}\right) 100 = 4.10\%$$

pass all

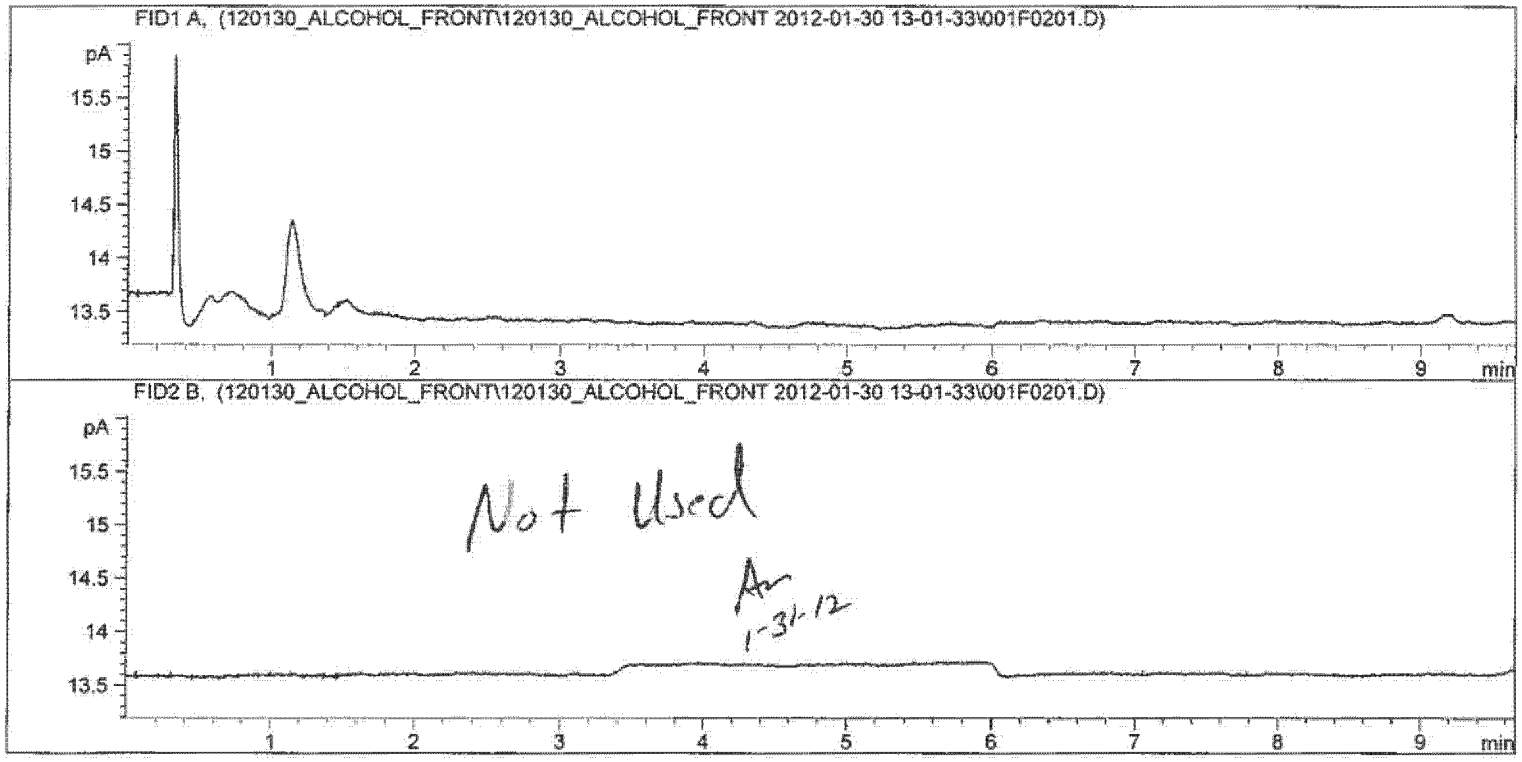
Am

Data File C:\CHEM32\...0_ALCOHOL_FRONT\120130_ALCOHOL_FRONT 2012-01-30 13-01-33\001F0201.D
Sample Name: IBL1

==========

Acq. Operator : ACM
Seq. Line : 2
Acq. Instrument : AG3-6890N
Location : Vial 1
Injection Date : 1/30/2012 1:18:14 PM
Inj : 1
Inj Volume : 1 µl
Acq. Method : C:\CHEM32\1\DATA\120130_ALCOHOL_FRONT\120130_ALCOHOL_FRONT 2012-01-30 13-01-33\ALCOHOLS_FRONT.M
Last changed : 1/27/2012 9:44:40 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120130.M
Last changed : 1/31/2012 7:42:39 AM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : water



Not Used
Am
1-31-12

==========

External Standard Report

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Sorted By : Signal
Calib. Data Modified : 1/31/2012 7:42:32 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Am

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.527		-	-	-		Methanol
1.749		-	-	-		Ethanol
2.527		-	-	-		1-Propanol

Data File C:\CHEM32\...0_ALCOHOL_FRONT\120130_ALCOHOL_FRONT 2012-01-30 13-01-33\001F0201.D
Sample Name: IBL1

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.755		-	-	-		2-Butanol
4.776		-	-	-		1-Butanol

Totals : 0.00000

Signal 2: FID2 B,

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==========

Area Percent Report

==========

Sorted By : Signal
Calib. Data Modified : 1/31/2012 7:42:32 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.527		0.0000	0.00000	0.00000	Methanol
2	1.749		0.0000	0.00000	0.00000	Ethanol
3	2.527		0.0000	0.00000	0.00000	1-Propanol
4	2.755		0.0000	0.00000	0.00000	2-Butanol
5	4.776		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

Signal 2: FID2 B,

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==========

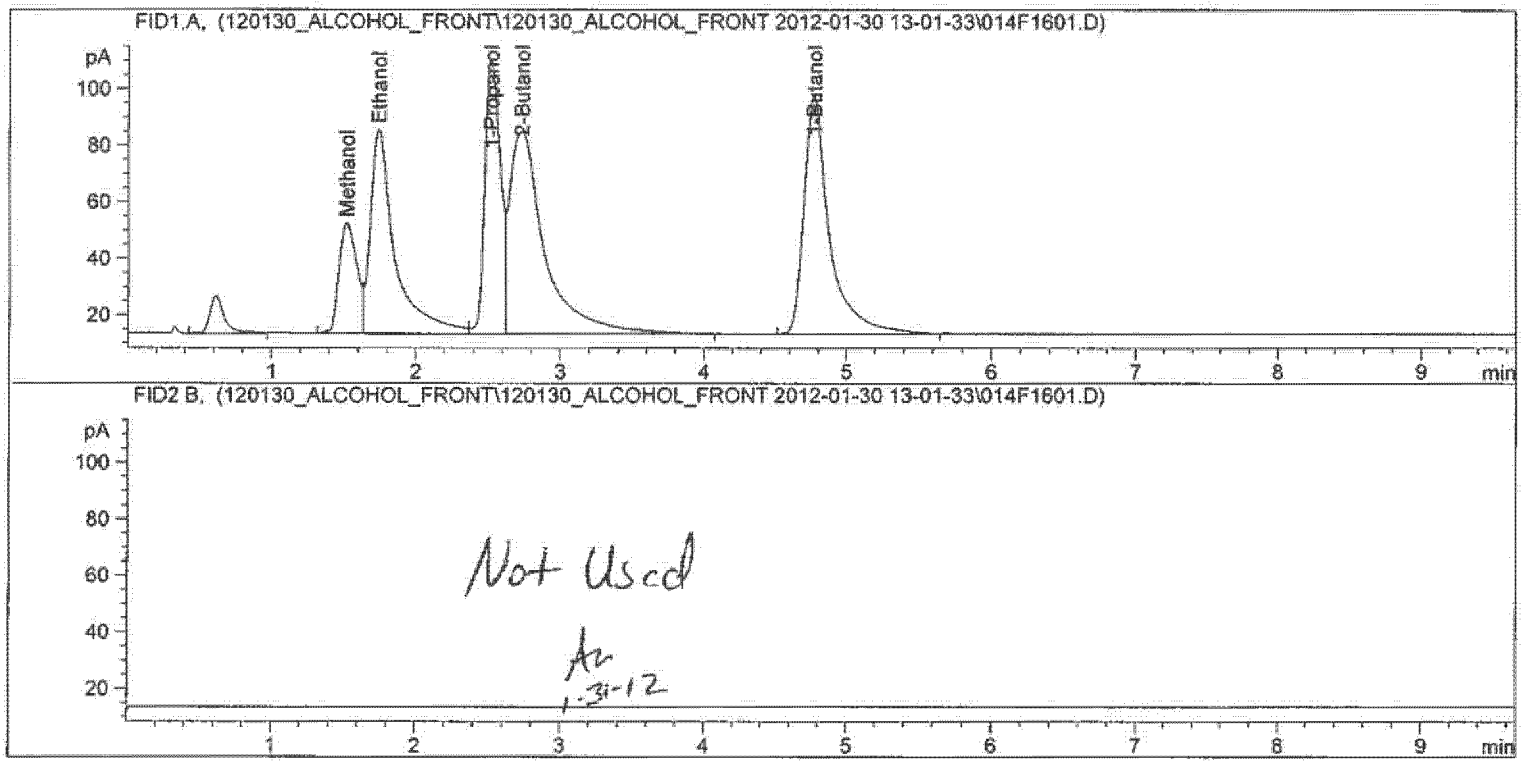
*** End of Report ***

Pass

File C:\CHEM32\...0_ALCOHOL_FRONT\120130_ALCOHOL_FRONT 2012-01-30 13-01-33\014F1601.D
Sample Name: BA23001-MSD1

==========

Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 1/30/2012 4:31:49 PM
Seq. Line : 16
Location : Vial 14
Inj : 1
Inj Volume : 1 µl
Acq. Method : C:\CHEM32\1\DATA\120130_ALCOHOL_FRONT\120130_ALCOHOL_FRONT 2012-01-30 13-01-33\ALCOHOLS_FRONT.M
Last changed : 1/27/2012 9:44:40 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120130.M
Last changed : 1/31/2012 7:46:56 AM by ACM
(modified after loading)
Method Info : FID method for Alcohol analysis



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 1/31/2012 7:46:58 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%Rec
1.521	BV	333.53506	2.91186e-1	97.12087		Methanol	97.1
1.743	VV	853.26917	1.12615e-1	96.09116		Ethanol	96.1
2.521	VV	721.07715	1.45618e-1	105.00158		1-Propanol	105.0
2.734	VB	1193.68066	7.87320e-2	93.98088		2-Butanol	94.0
4.775	BV	1042.96143	9.52765e-2	99.36968		1-Butanol	99.4

Pass

Data File C:\CHEM32\...0_ALCOHOL_FRONT\120130_ALCOHOL_FRONT 2012-01-30 13-01-33\014F1601.D
Sample Name: BA23001-MSD1

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
Totals :				491.56416		

Signal 2: FID2 B,

*** End of Report ***

$$RSD = \left[\frac{|R_1 - R_2|}{Avg(R_1, R_2)}\right] 100$$

$$MeOH = \left[\frac{97.1 - 86.1}{Avg(97.1, 86.1)}\right] 100 = \left[\frac{11}{91.6}\right] 100 = 12.0\% \quad ok$$

$$EtOH = \left[\frac{96.1 - 93.0}{Avg(96.1, 93)}\right] 100 = \left[\frac{3.1}{94.55}\right] 100 = 3.28\% \quad ok$$

$$1\text{-Propanol} = \left[\frac{105.0 - 92.3}{Avg(105, 92.3)}\right] 100 = \left[\frac{12.7}{98.65}\right] 100 = 12.9\% \quad ok$$

$$2\text{-Butanol} = \left[\frac{106.9 - 94.0}{Avg(106.9, 94)}\right] 100 = \left[\frac{12.9}{100.45}\right] 100 = 12.8\% \quad ok$$

$$1\text{-Butanol} = \left[\frac{99.4 - 98.8}{Avg(99.4, 98.8)}\right] 100 = \left[\frac{0.6}{99.1}\right] 100 = 0.605\% \quad ok$$

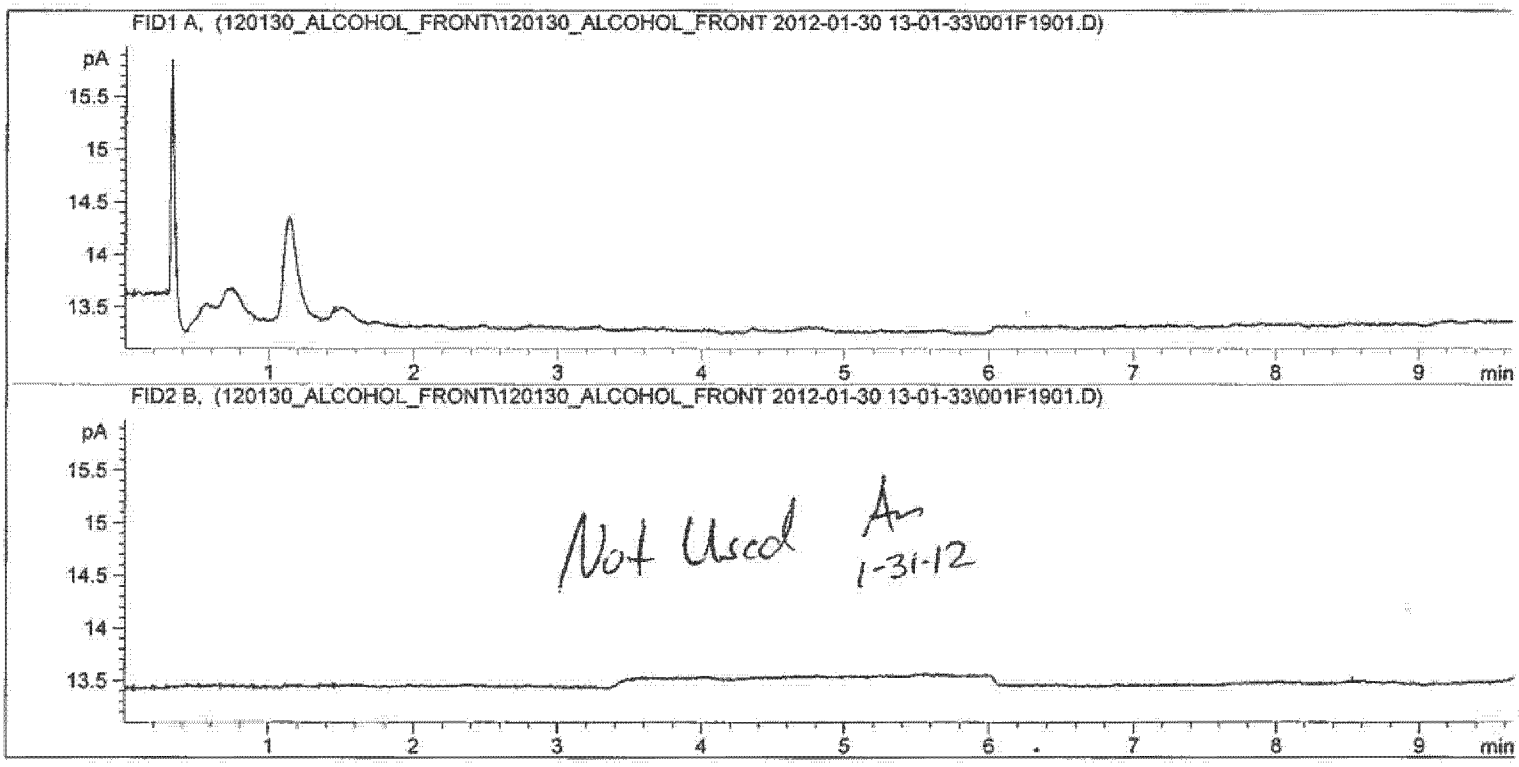
pass all

Data File C:\CHEM32\...0_ALCOHOL_FRONT\120130_ALCOHOL_FRONT 2012-01-30 13-01-33\001F1901.D
Sample Name: IBL2

==========

Acq. Operator : ACM
Seq. Line : 19
Acq. Instrument : AG3-6890N
Location : Vial 1
Injection Date : 1/30/2012 5:13:21 PM
Inj : 1
Inj Volume : 1 µl
Acq. Method : C:\CHEM32\1\DATA\120130_ALCOHOL_FRONT\120130_ALCOHOL_FRONT 2012-01-30 13-01-33\ALCOHOLS_FRONT.M
Last changed : 1/27/2012 9:44:40 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120130.M
Last changed : 1/31/2012 7:46:56 AM by ACM
(modified after loading)
Method Info : FID method for Alcohol analysis

Sample Info : water



Not Used AM 1-31-12

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 1/31/2012 7:46:58 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.527		-	-	-		Methanol
1.749		-	-	-		Ethanol

N/D

Data File C:\CHEM32\...0_ALCOHOL_FRONT\120130_ALCOHOL_FRONT 2012-01-30 13-01-33\001F1901.D
Sample Name: IBL2

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.527		-	-	-		1-Propanol
2.755		-	-	-		2-Butanol
4.776		-	-	-		1-Butanol

N/D

Totals : 0.00000

Signal 2: FID2 B,

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 1/31/2012 7:46:58 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.527		0.0000	0.00000	0.00000	Methanol
2	1.749		0.0000	0.00000	0.00000	Ethanol
3	2.527		0.0000	0.00000	0.00000	1-Propanol
4	2.755		0.0000	0.00000	0.00000	2-Butanol
5	4.776		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

Signal 2: FID2 B,

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

Am

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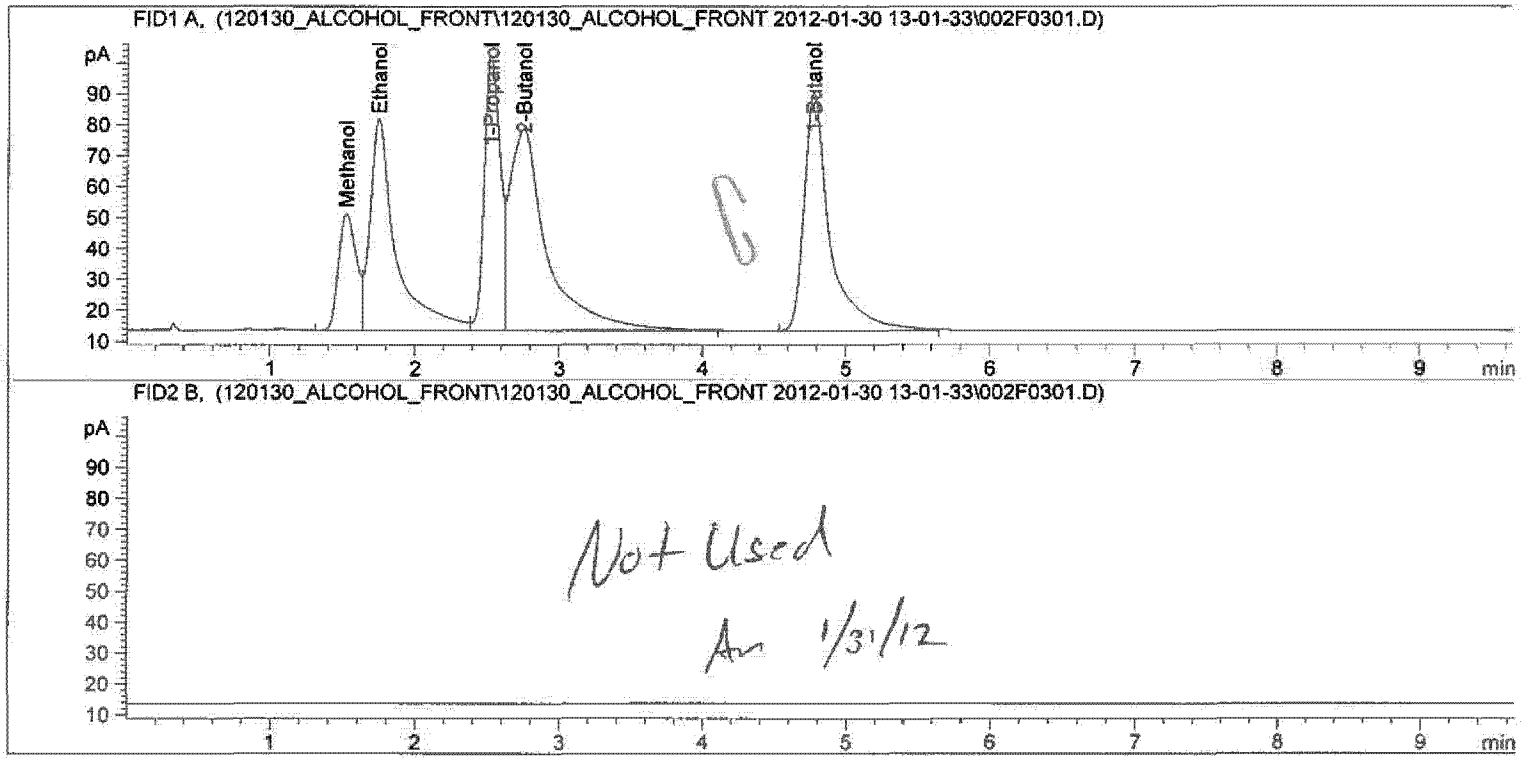
*** End of Report ***

Data File C:\CHEM32\...0_ALCOHOL_FRONT\120130_ALCOHOL_FRONT 2012-01-30 13-01-33\002F0301.D
Sample Name: CCV1

Acq. Operator	: ACM	Seq. Line :	3
Acq. Instrument	: AG3-6890N	Location :	Vial 2
Injection Date	: 1/30/2012 1:32:04 PM	Inj :	1
		Inj Volume :	1 µl
Acq. Method	: C:\CHEM32\1\DATA\120130_ALCOHOL_FRONT\120130_ALCOHOL_FRONT 2012-01-30 13-01-33\ALCOHOLS_FRONT.M		
Last changed	: 1/27/2012 9:44:40 AM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120130.M		
Last changed	: 1/31/2012 7:42:39 AM by ACM		
Method Info	: FID method for Alcohol analysis		

Sample Info : ALCal4-111122-ACM



External Standard Report

Am

Sorted By : Signal
Calib. Data Modified : 1/31/2012 7:42:32 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%D
1.527	VV	321.64798	2.92267e-1	94.00706		Methanol	5.99
1.749	VV	858.34363	1.12594e-1	96.64403		Ethanol	3.36
2.527	VV	681.02319	1.45698e-1	99.22369		1-Propanol	0.77

Data File C:\CHEM32\...0_ALCOHOL_FRONT\120130_ALCOHOL_FRONT 2012-01-30 13-01-33\002F0301.D
Sample Name: CCV1

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%D
2.755	VB	1165.83789	7.85463e-2	91.57220		2-Butanol	8.43
4.776	BV	955.62537	9.55642e-2	91.32360		1-Butanol	8.68

Totals : 472.77058

Signal 2: FID2 B,

*** End of Report ***

Pass all

Am

Data File C:\CHEM32\...0_ALCOHOL_FRONT\120130_ALCOHOL_FRONT 2012-01-30 13-01-33\002F2001.D
Sample Name: CCV2

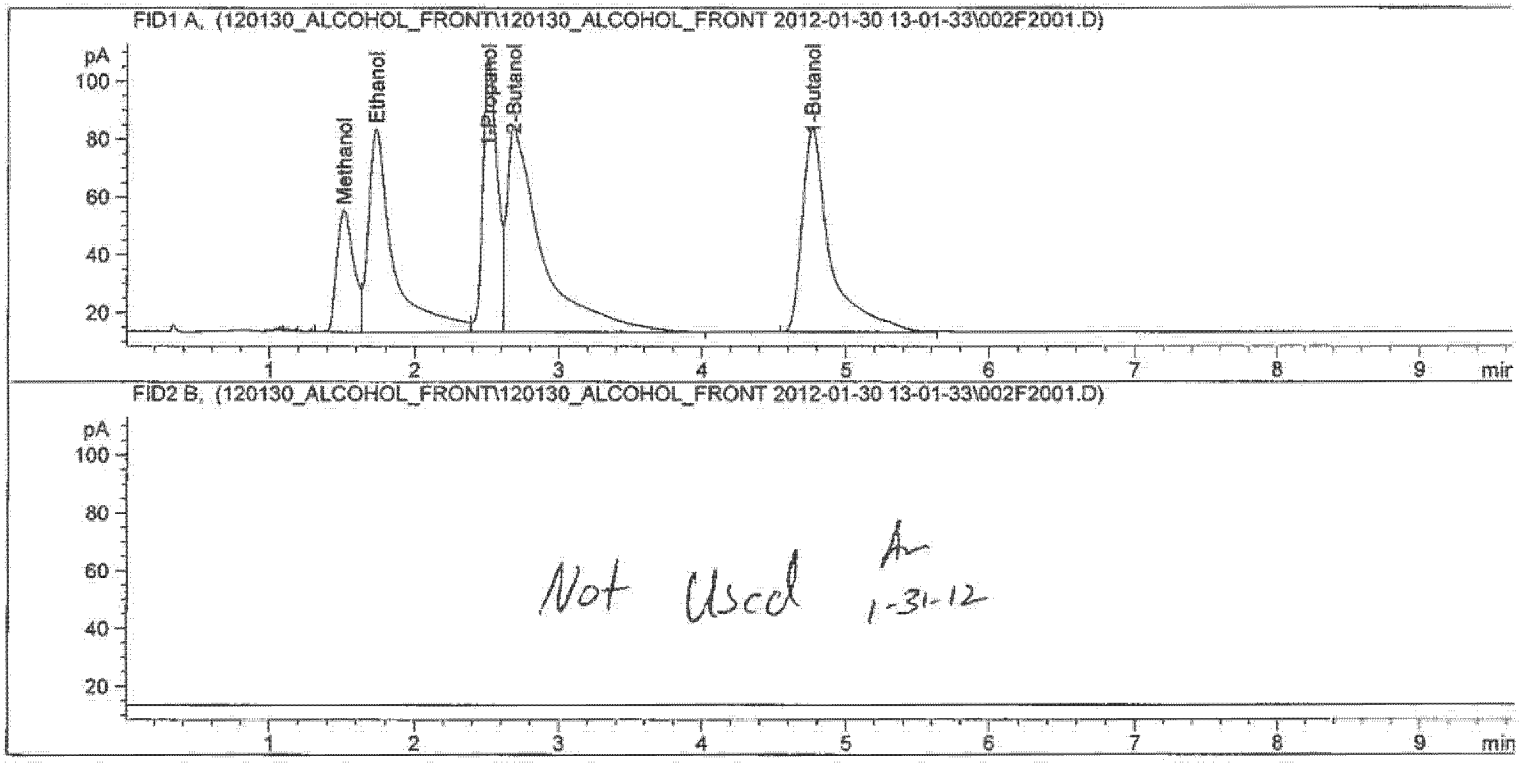
==========

Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 1/30/2012 5:27:12 PM

Seq. Line : 20
Location : Vial 2
Inj : 1
Inj Volume : 1 µl

Acq. Method : C:\CHEM32\1\DATA\120130_ALCOHOL_FRONT\120130_ALCOHOL_FRONT 2012-01-30 13-01-33\ALCOHOLS_FRONT.M
Last changed : 1/27/2012 9:44:40 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120130.M
Last changed : 1/31/2012 7:46:56 AM by ACM
(modified after loading)
Method Info : FID method for Alcohol analysis

Sample Info : ALCal4-111122-ACM



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 1/31/2012 7:46:58 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%D
1.515	VV	341.25055	2.90525e-1	99.14193		Methanol	0.858
1.737	VV	834.74731	1.12697e-1	94.07319		Ethanol	5.93

Data File C:\CHEM32\...0_ALCOHOL_FRONT\120130_ALCOHOL_FRONT 2012-01-30 13-01-33\002F2001.D
Sample Name: CCV2

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%D
2.511	VV	651.57013	1.45763e-1	94.97501		1-Propanol	5.02
2.686	VB	1211.31091	7.88452e-2	95.50607		2-Butanol	4.49
4.769	BV	954.11676	9.55697e-2	91.18462		1-Butanol	8.81
Totals :				474.88081			

Signal 2: FID2 B,

*** End of Report ***

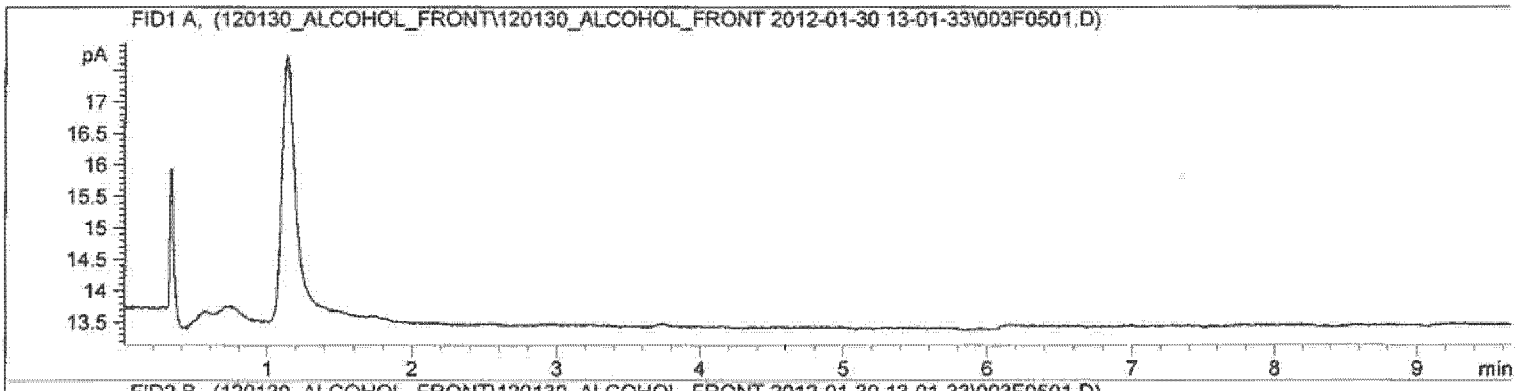
Pass all

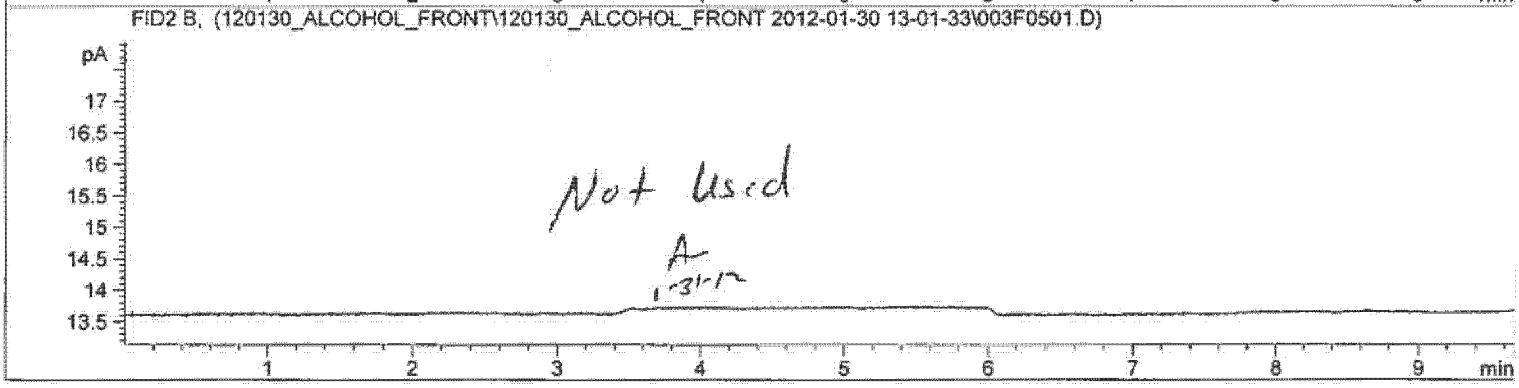
Data File C:\CHEM32\...0_ALCOHOL_FRONT\120130_ALCOHOL_FRONT 2012-01-30 13-01-33\003F0501.D
Sample Name: BA23001-BLK1

==========

Acq. Operator : ACM
Seq. Line : 5
Acq. Instrument : AG3-6890N
Location : Vial 3
Injection Date : 1/30/2012 1:59:43 PM
Inj : 1
Inj Volume : 1 µl
Acq. Method : C:\CHEM32\1\DATA\120130_ALCOHOL_FRONT\120130_ALCOHOL_FRONT 2012-01-30 13-01-33\ALCOHOLS_FRONT.M
Last changed : 1/27/2012 9:44:40 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120130.M
Last changed : 1/31/2012 7:42:39 AM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : water





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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 1/31/2012 7:42:32 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Am

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.527		-	-	-		Methanol
1.749		-	-	-		Ethanol
2.527		-	-	-		1-Propanol

Data File C:\CHEM32\...0_ALCOHOL_FRONT\120130_ALCOHOL_FRONT 2012-01-30 13-01-33\003F0501.D
Sample Name: BA23001-BLK1

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.755		-	-	-		2-Butanol
4.776		-	-	-		1-Butanol

Totals : 0.00000

Signal 2: FID2 B,

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 1/31/2012 7:42:32 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.527		0.0000	0.00000	0.00000	Methanol
2	1.749		0.0000	0.00000	0.00000	Ethanol
3	2.527		0.0000	0.00000	0.00000	1-Propanol
4	2.755		0.0000	0.00000	0.00000	2-Butanol
5	4.776		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

Signal 2: FID2 B,

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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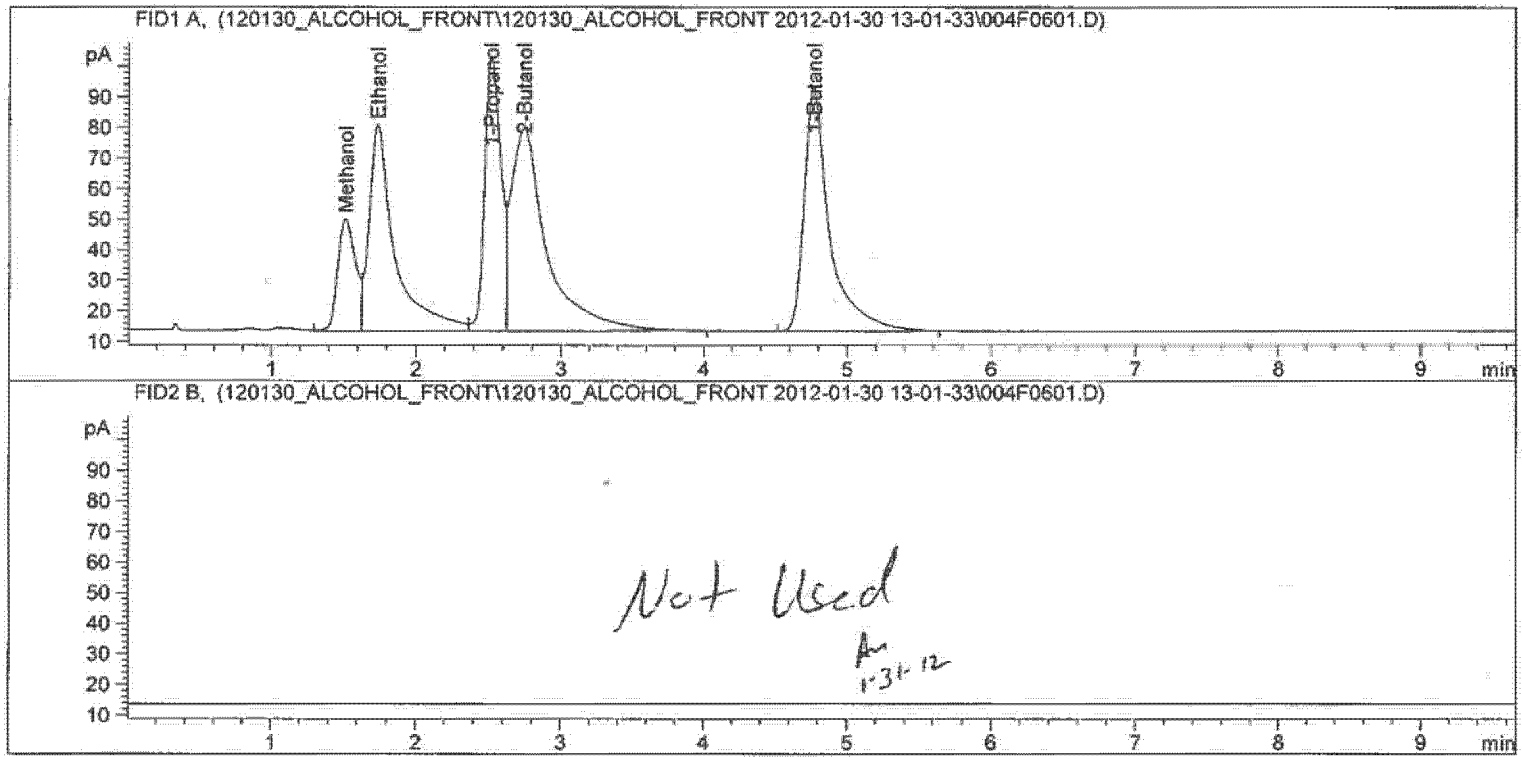
*** End of Report ***

Data File C:\CHEM32\...0_ALCOHOL_FRONT\120130_ALCOHOL_FRONT 2012-01-30 13-01-33\004F0601.D
Sample Name: BA23001-BS1

==========

Acq. Operator : ACM
Seq. Line : 6
Acq. Instrument : AG3-6890N
Location : Vial 4
Injection Date : 1/30/2012 2:13:32 PM
Inj : 1
Inj Volume : 1 µl
Acq. Method : C:\CHEM32\1\DATA\120130_ALCOHOL_FRONT\120130_ALCOHOL_FRONT 2012-01-30 13-01-33\ALCOHOLS_FRONT.M
Last changed : 1/27/2012 9:44:40 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120130.M
Last changed : 1/31/2012 7:42:39 AM by ACM
Method Info : FID method for Alcohol analysis



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 1/31/2012 7:42:32 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

AM

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%Rec
1.516	VV	313.89072	2.93016e-1	91.97505		Methanol	92.0
1.737	VV	826.86017	1.12732e-1	93.21388		Ethanol	93.2
2.519	VV	690.98773	1.45677e-1	100.66110		1-Propanol	100.7
2.746	VB	1129.20752	7.82879e-2	88.40331		2-Butanol	88.4
4.770	BV	978.96246	9.54823e-2	93.47360		1-Butanol	93.5

Pass

Totals : 467.72694

Signal 2: FID2 B,

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*** End of Report ***

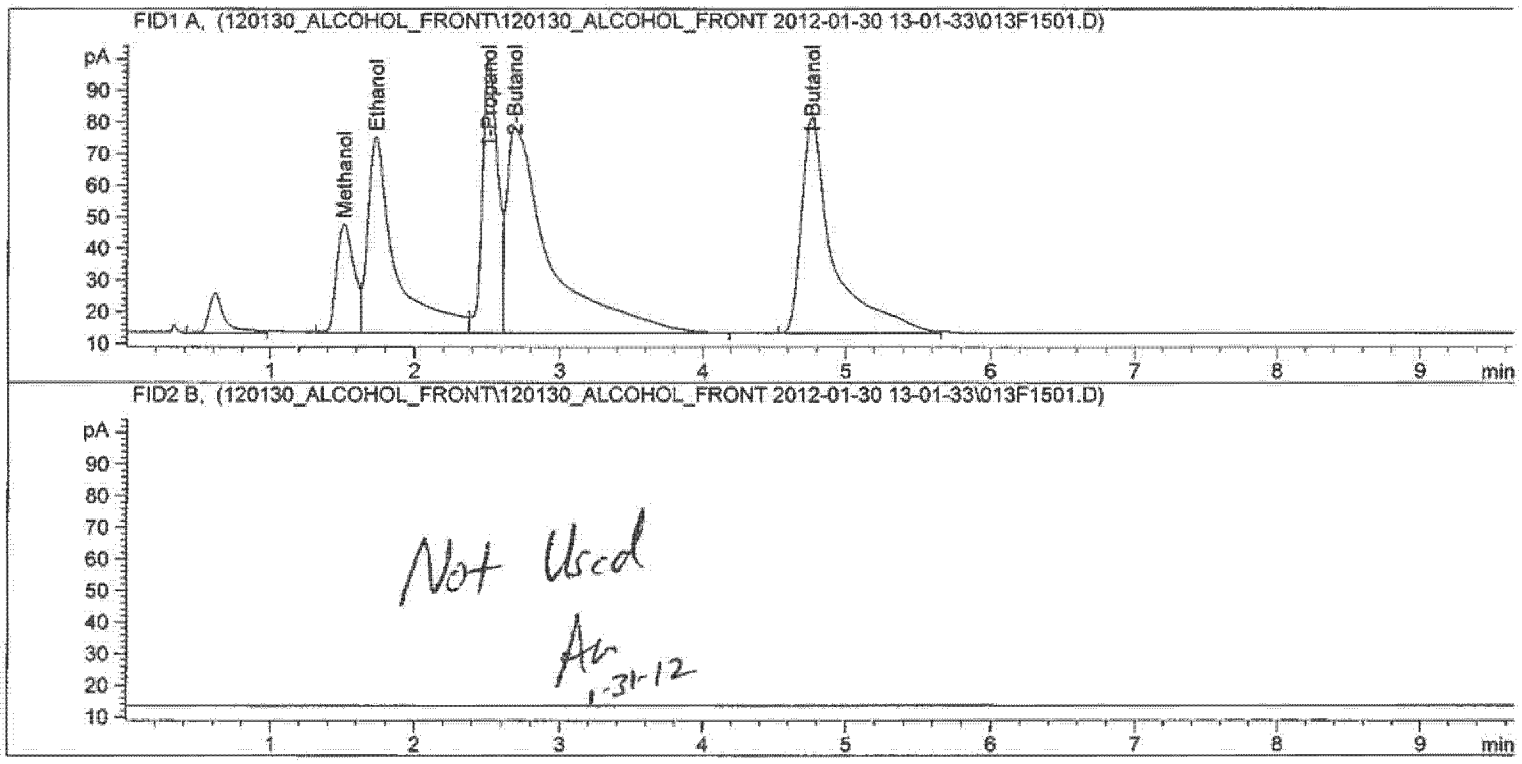
Data File C:\CHEM32\...0_ALCOHOL_FRONT\120130_ALCOHOL_FRONT 2012-01-30 13-01-33\013F1501.D
Sample Name: BA23001-MS1

==========

Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 1/30/2012 4:18:00 PM

Seq. Line : 15
Location : Vial 13
Inj : 1
Inj Volume : 1 µl

Acq. Method : C:\CHEM32\1\DATA\120130_ALCOHOL_FRONT\120130_ALCOHOL_FRONT 2012-01-30 13-01-33\ALCOHOLS_FRONT.M
Last changed : 1/27/2012 9:44:40 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120130.M
Last changed : 1/31/2012 7:46:56 AM by ACM
(modified after loading)
Method Info : FID method for Alcohol analysis



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 1/31/2012 7:46:58 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%Rec
1.513	BV	291.51407	2.95401e-1	86.11351		Methanol	86.1
1.735	VV	824.73969	1.12742e-1	92.98285		Ethanol	93.0
2.510	VV	633.19843	1.45807e-1	92.32484		1-Propanol	92.3
2.689	VB	1342.63074	7.95949e-2	106.86653		2-Butanol	106.9
4.769	BV	1037.19189	9.52940e-2	98.83815		1-Butanol	98.8

Pass

Data File C:\CHEM32\...0_ALCOHOL_FRONT\120130_ALCOHOL_FRONT 2012-01-30 13-01-33\013F1501.D
Sample Name: BA23001-MS1

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
Totals :				477.12588		

Signal 2: FID2 B,

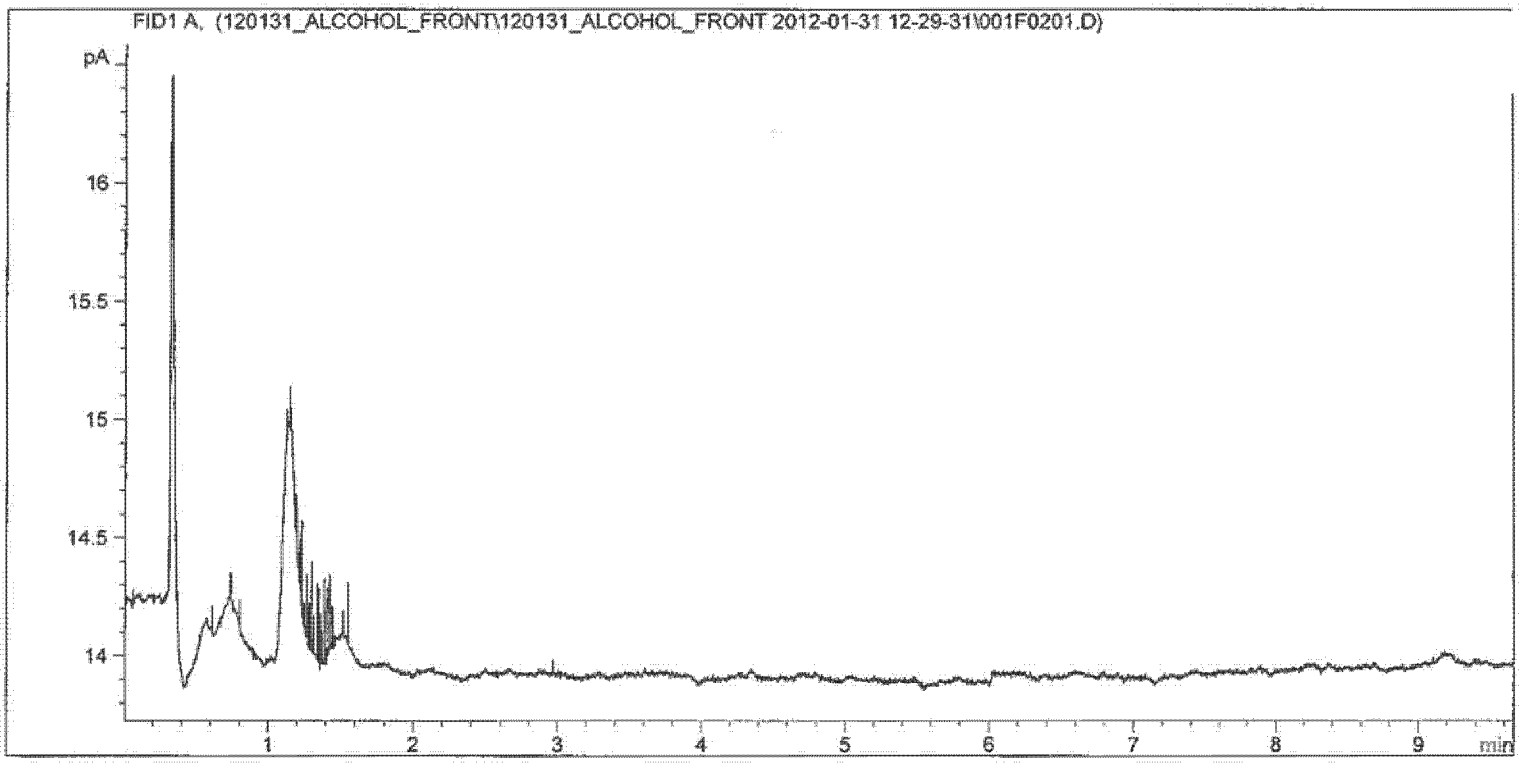
*** End of Report ***

Data File C:\CHEM32\...1_ALCOHOL_FRONT\120131_ALCOHOL_FRONT 2012-01-31 12-29-31\001F0201.D
Sample Name: IBL1

==========

Acq. Operator : ACM
Seq. Line : 2
Acq. Instrument : AG3-6890N
Location : Vial 1
Injection Date : 1/31/2012 12:46:39 PM
Inj : 1
Inj Volume : 1 µl
Acq. Method : C:\CHEM32\1\DATA\120131_ALCOHOL_FRONT\120131_ALCOHOL_FRONT 2012-01-31 12-29-31\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120131.M
Last changed : 2/1/2012 7:17:12 AM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : water



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 2/1/2012 7:17:05 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.532		-	-	-		Methanol
1.754		-	-	-		Ethanol
2.525		-	-	-		1-Propanol

Data File C:\CHEM32\...1_ALCOHOL_FRONT\120131_ALCOHOL_FRONT 2012-01-31 12-29-31\001F0201.D
Sample Name: IBL1

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.756		-	-	-		2-Butanol
4.789		-	-	-		1-Butanol

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==========

Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 2/1/2012 7:17:05 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.532		0.0000	0.00000	0.00000	Methanol
2	1.754		0.0000	0.00000	0.00000	Ethanol
3	2.525		0.0000	0.00000	0.00000	1-Propanol
4	2.756		0.0000	0.00000	0.00000	2-Butanol
5	4.789		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==========

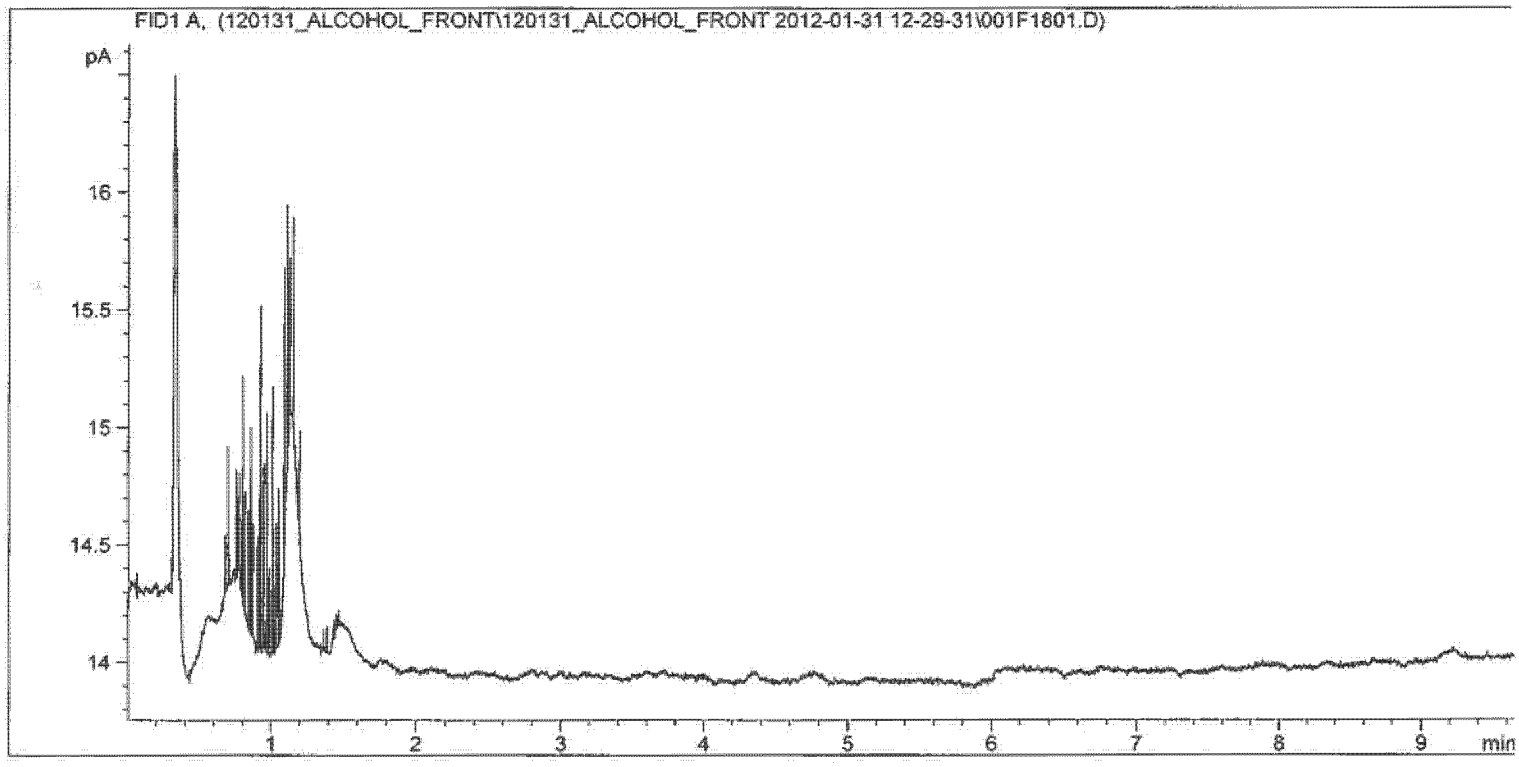
*** End of Report ***

Data File C:\CHEM32\...1_ALCOHOL_FRONT\120131_ALCOHOL_FRONT 2012-01-31 12-29-31\001F1801.D
Sample Name: IBL2

==========

Acq. Operator : ACM
Seq. Line : 18
Acq. Instrument : AG3-6890N
Location : Vial 1
Injection Date : 1/31/2012 4:28:09 PM
Inj : 1
Inj Volume : 1 µl
Acq. Method : C:\CHEM32\1\DATA\120131_ALCOHOL_FRONT\120131_ALCOHOL_FRONT 2012-01-31 12-29-31\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120131.M
Last changed : 2/1/2012 7:20:03 AM by ACM
(modified after loading)
Method Info : FID method for Alcohol analysis

Sample Info : water



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 2/1/2012 7:20:03 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.532		-	-	-		Methanol
1.754		-	-	-		Ethanol

Data File C:\CHEM32\...1_ALCOHOL_FRONT\120131_ALCOHOL_FRONT 2012-01-31 12-29-31\001F1801.D
Sample Name: IBL2

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.525		-	-	-		1-Propanol
2.756		-	-	-		2-Butanol
4.789		-	-	-		1-Butanol

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==========

Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 2/1/2012 7:20:03 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.532		0.0000	0.00000	0.00000	Methanol
2	1.754		0.0000	0.00000	0.00000	Ethanol
3	2.525		0.0000	0.00000	0.00000	1-Propanol
4	2.756		0.0000	0.00000	0.00000	2-Butanol
5	4.789		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==========

*** End of Report ***

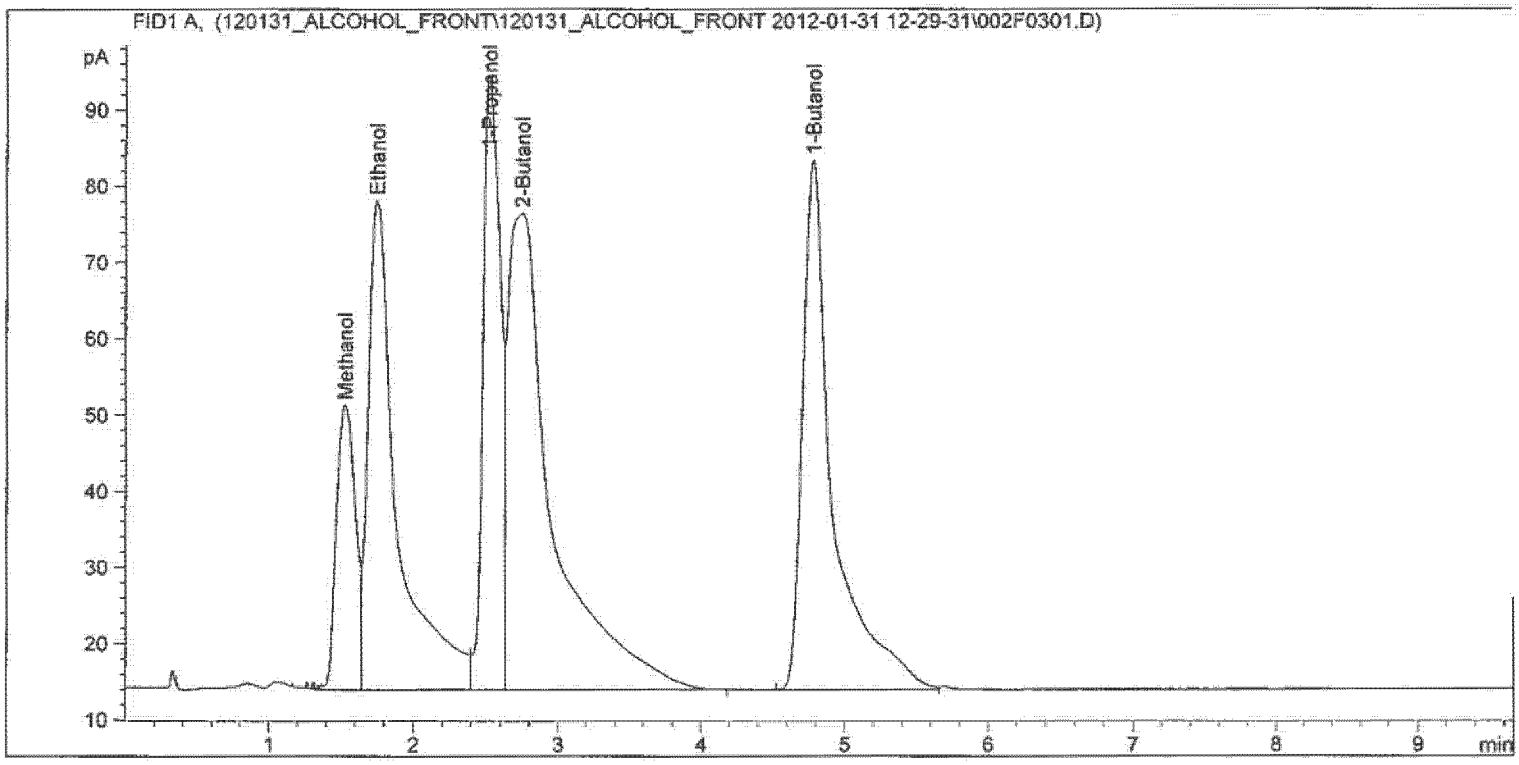
Am

Data File C:\CHEM32\...1_ALCOHOL_FRONT\120131_ALCOHOL_FRONT 2012-01-31 12-29-31\002F0301.D
Sample Name: CCV1

Acq. Operator	: ACM	Seq. Line :	3
Acq. Instrument	: AG3-6890N	Location :	Vial 2
Injection Date	: 1/31/2012 1:00:30 PM	Inj :	1
		Inj Volume :	1 µl

Acq. Method : C:\CHEM32\1\DATA\120131_ALCOHOL_FRONT\120131_ALCOHOL_FRONT 2012-01-31 12-29-31\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120131.M
Last changed : 2/1/2012 7:17:12 AM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : ALCal4-111122-ACM



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/1/2012 7:17:05 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%D
1.532	VV	337.96674	2.90803e-1	98.28174		Methanol	1.72
1.754	VV	899.19495	1.12428e-1	101.09481		Ethanol	1.09
2.525	VV	671.48993	1.45718e-1	97.84849		1-Propanol	2.15

Data File C:\CHEM32\...1_ALCOHOL_FRONT\120131_ALCOHOL_FRONT 2012-01-31 12-29-31\002F0301.D
Sample Name: CCV1

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%D
2.756	VB	1358.85803	7.96775e-2	108.27036		2-Butanol	8.27
4.789	BV	1007.65234	9.53868e-2	96.11673		1-Butanol	3.88

Totals : 501.61213

*** End of Report ***

- pass

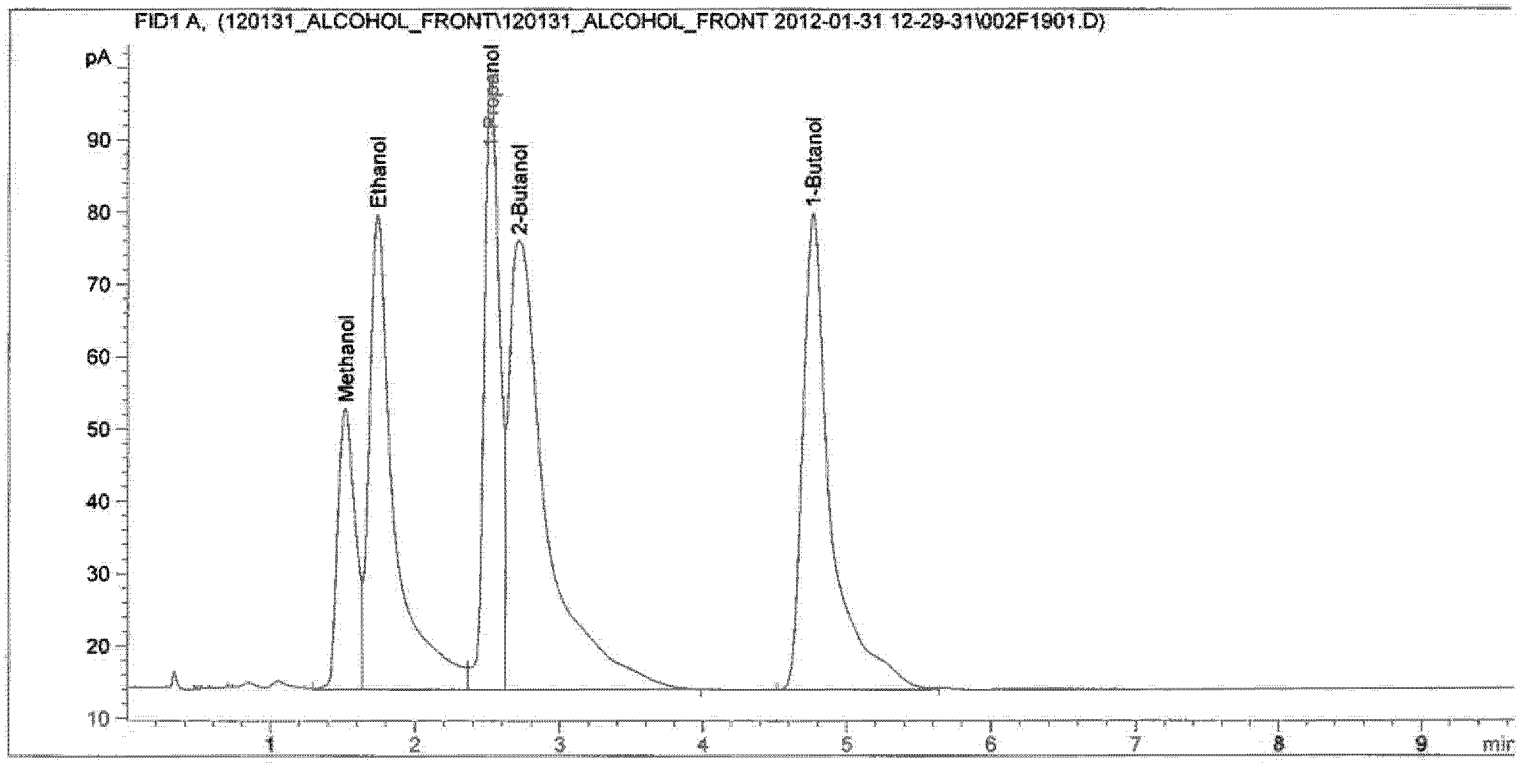
Acm

Data File C:\CHEM32\...1_ALCOHOL_FRONT\120131_ALCOHOL_FRONT 2012-01-31 12-29-31\002F1901.D
Sample Name: CCV2

Acq. Operator	: ACM	Seq. Line :	19
Acq. Instrument	: AG3-6890N	Location :	Vial 2
Injection Date	: 1/31/2012 4:42:00 PM	Inj :	1
		Inj Volume :	1 µl

Acq. Method : C:\CHEM32\1\DATA\120131_ALCOHOL_FRONT\120131_ALCOHOL_FRONT 2012-01-31 12-29-31\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120131.M
Last changed : 2/1/2012 7:20:03 AM by ACM
(modified after loading)
Method Info : FID method for Alcohol analysis

Sample Info : ALCal4-111122-ACM



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/1/2012 7:20:03 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%D
1.520	VV	325.98709	2.91863e-1	95.14368		Methanol	4.86
1.742	VV	788.43451	1.12917e-1	89.02737		Ethanol	11.0

Data File C:\CHEM32\...1_ALCOHOL_FRONT\120131_ALCOHOL_FRONT 2012-01-31 12-29-31\002F1901.D
Sample Name: CCV2

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%D
2.517	VV	622.47534	1.45834e-1	90.77801		1-Propanol	9.22
2.714	VB	1124.31543	7.82522e-2	87.98010		2-Butanol	12.0
4.770	BB	880.31049	9.58582e-2	84.38501		1-Butanol	15.6

Totals : 447.31417

*** End of Report ***

- pass all

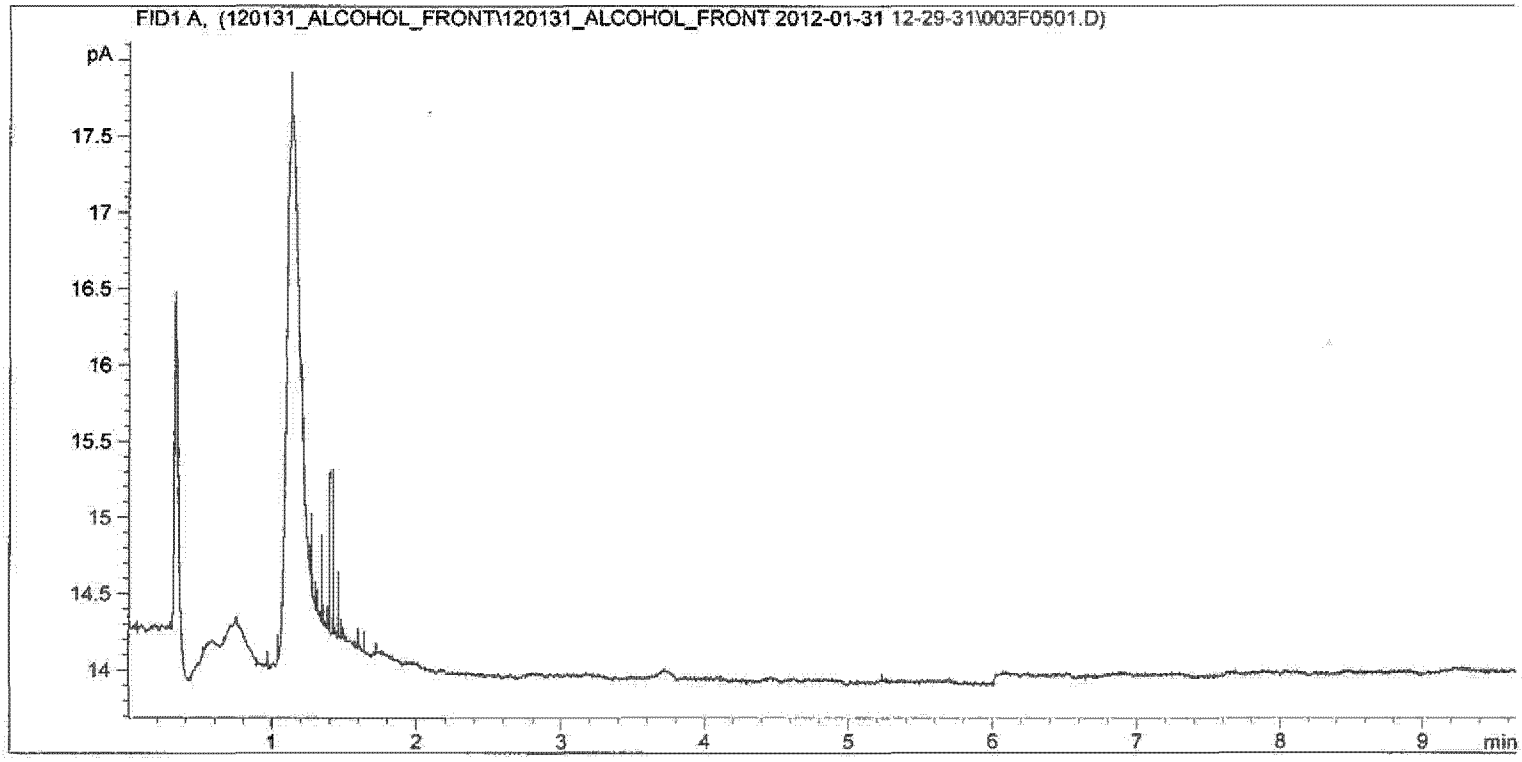
Am

Data File C:\CHEM32\...1_ALCOHOL_FRONT\120131_ALCOHOL_FRONT 2012-01-31 12-29-31\003F0501.D
Sample Name: BA23103-BLK1

==========

Acq. Operator : ACM
Seq. Line : 5
Acq. Instrument : AG3-6890N
Location : Vial 3
Injection Date : 1/31/2012 1:28:11 PM
Inj : 1
Inj Volume : 1 µl
Acq. Method : C:\CHEM32\1\DATA\120131_ALCOHOL_FRONT\120131_ALCOHOL_FRONT 2012-01-31 12-29-31\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120131.M
Last changed : 2/1/2012 7:17:12 AM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : water



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 2/1/2012 7:17:05 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

ACM

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.532		-	-	-		Methanol
1.754		-	-	-		Ethanol
2.525		-	-	-		1-Propanol

Data File C:\CHEM32\...1_ALCOHOL_FRONT\120131_ALCOHOL_FRONT 2012-01-31 12-29-31\003F0501.D
Sample Name: BA23103-BLK1

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.756		-	-	-		2-Butanol
4.789		-	-	-		1-Butanol

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==========

Area Percent Report

==========

Sorted By : Signal
Calib. Data Modified : 2/1/2012 7:17:05 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.532		0.0000	0.00000	0.00000	Methanol
2	1.754		0.0000	0.00000	0.00000	Ethanol
3	2.525		0.0000	0.00000	0.00000	1-Propanol
4	2.756		0.0000	0.00000	0.00000	2-Butanol
5	4.789		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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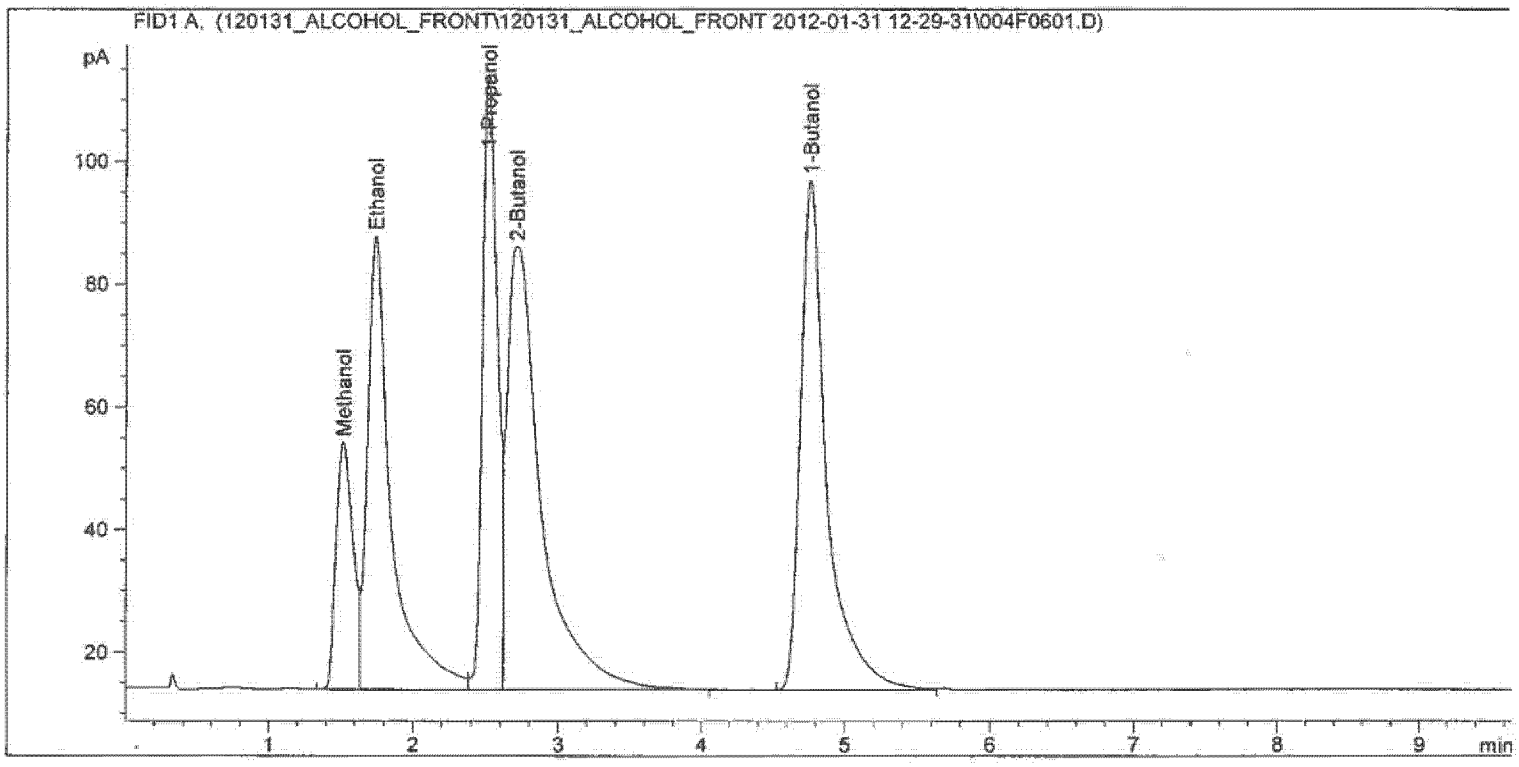
*** End of Report ***

— pass

Data File C:\CHEM32\...1_ALCOHOL_FRONT\120131_ALCOHOL_FRONT 2012-01-31 12-29-31\004F0601.D
Sample Name: BA23103-BS1

Acq. Operator	: ACM	Seq. Line :	6
Acq. Instrument	: AG3-6890N	Location :	Vial 4
Injection Date	: 1/31/2012 1:42:00 PM	Inj :	1
		Inj Volume :	1 µl

Acq. Method : C:\CHEM32\1\DATA\120131_ALCOHOL_FRONT\120131_ALCOHOL_FRONT 2012-01-31 12-29-31\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120131.M
Last changed : 2/1/2012 7:18:25 AM by ACM
(modified after loading)
Method Info : FID method for Alcohol analysis



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/1/2012 7:18:27 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

AM

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%Rec
1.520	VV	331.92957	2.91328e-1	96.70031		Methanol	96.7
1.742	VV	850.43854	1.12627e-1	95.78276		Ethanol	95.8
2.516	VV	705.39960	1.45648e-1	102.74005		1-Propanol	102.7
2.714	VB	1185.86462	7.86807e-2	93.30471		2-Butanol	93.3
4.766	BB	1039.23230	9.52878e-2	99.02612		1-Butanol	99.0

pass

Data File C:\CHEM32\...1_ALCOHOL_FRONT\120131_ALCOHOL_FRONT 2012-01-31 12-29-31\004F0601.D
Sample Name: BA23103-BS1

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
Totals :				487.55396		

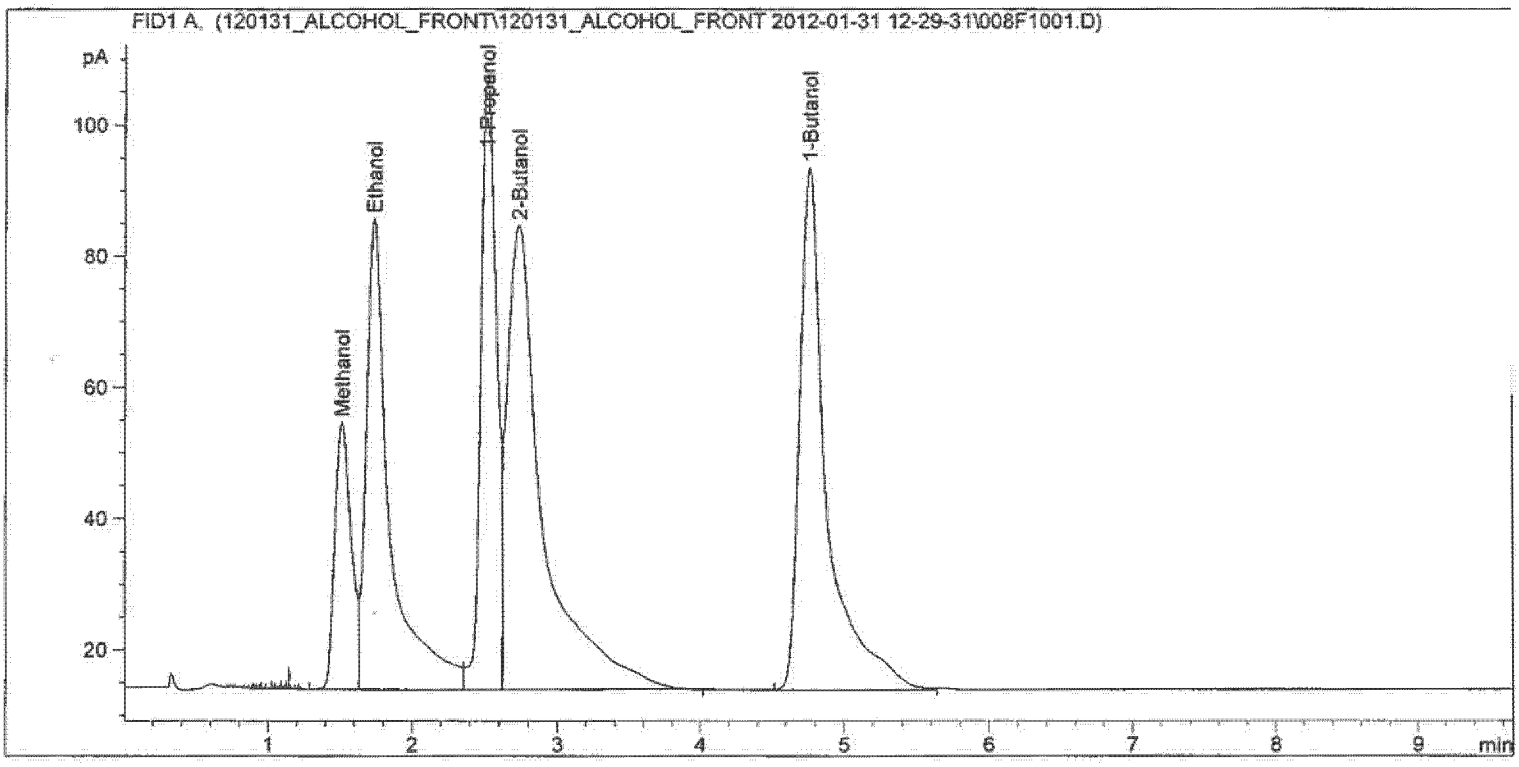
*** End of Report ***

Am

Data File C:\CHEM32\...1_ALCOHOL_FRONT\120131_ALCOHOL_FRONT 2012-01-31 12-29-31\008F1001.D
Sample Name: BA23103-MS1

==========

Acq. Operator : ACM
Seq. Line : 10
Acq. Instrument : AG3-6890N
Location : Vial 8
Injection Date : 1/31/2012 2:37:23 PM
Inj : 1
Inj Volume : 1 µl
Acq. Method : C:\CHEM32\1\DATA\120131_ALCOHOL_FRONT\120131_ALCOHOL_FRONT 2012-01-31 12-29-31\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120131.M
Last changed : 2/1/2012 7:20:03 AM by ACM
(modified after loading)
Method Info : FID method for Alcohol analysis



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 2/1/2012 7:20:03 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Acm

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%Rec
1.516	VV	321.66562	2.92265e-1	94.01168		Methanol	94.0
1.738	VV	819.48969	1.12766e-1	92.41086		Ethanol	92.4
2.518	VV	696.79529	1.45665e-1	101.49885		1-Propanol	101.5
2.738	VB	1214.03687	7.88624e-2	95.74189		2-Butanol	95.7
4.764	BV	1032.96704	9.53069e-2	98.44892		1-Butanol	98.4

Pass

Data File C:\CHEM32\...1_ALCOHOL_FRONT\120131_ALCOHOL_FRONT 2012-01-31 12-29-31\008F1001.D
Sample Name: BA23103-MS1

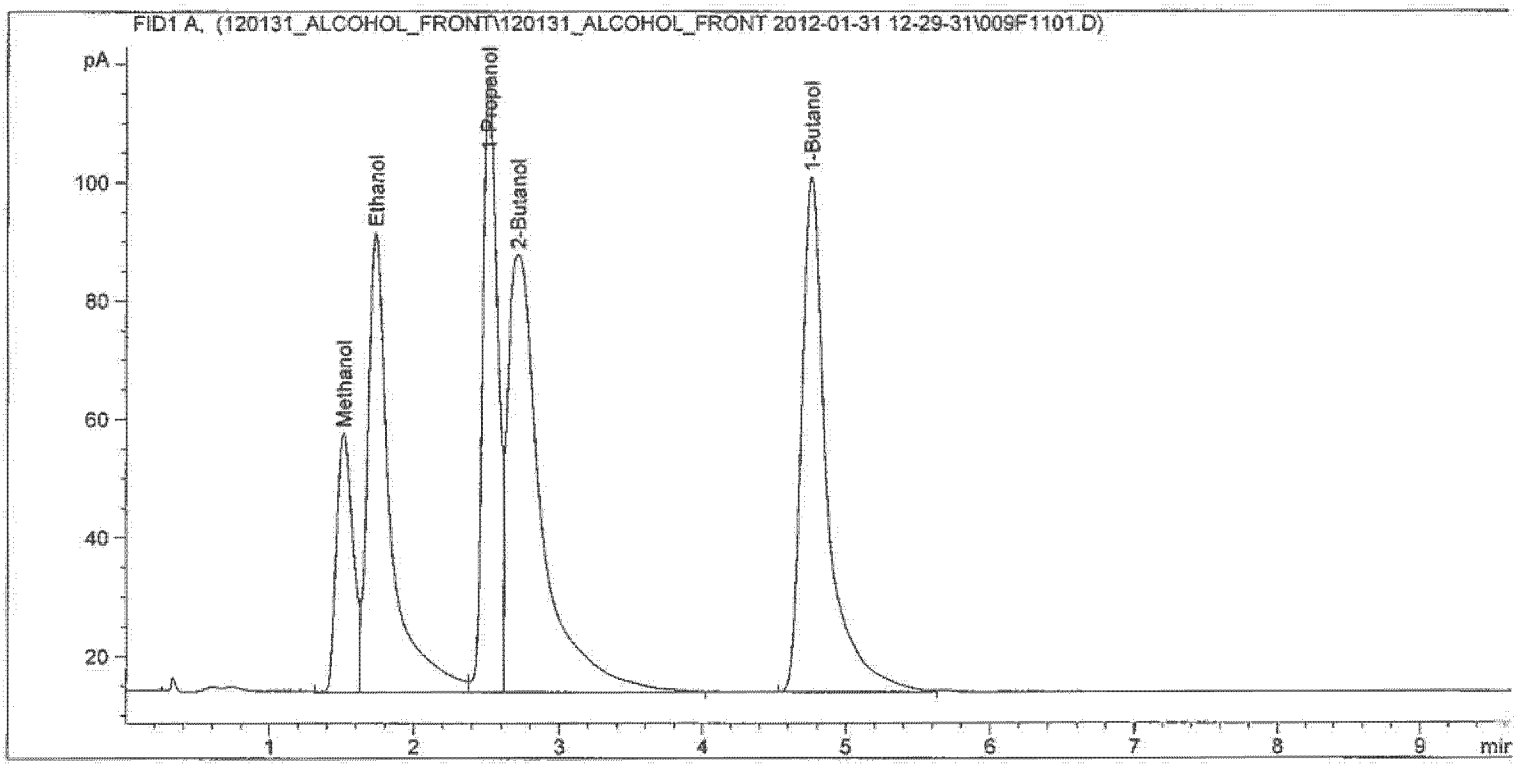
RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
Totals :				482.11220		

*** End of Report ***

Data File C:\CHEM32\...1_ALCOHOL_FRONT\120131_ALCOHOL_FRONT 2012-01-31 12-29-31\009F1101.D
Sample Name: BA23103-MSD1

==========

Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 1/31/2012 2:51:14 PM
Seq. Line : 11
Location : Vial 9
Inj : 1
Inj Volume : 1 µl
Acq. Method : C:\CHEM32\1\DATA\120131_ALCOHOL_FRONT\120131_ALCOHOL_FRONT 2012-01-31 12-29-31\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120131.M
Last changed : 2/1/2012 7:20:03 AM by ACM
(modified after loading)
Method Info : FID method for Alcohol analysis



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 2/1/2012 7:20:03 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

ACM

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%Rec
1.517	VV	350.42352	2.89777e-1	101.54478		Methanol	101.5
1.739	VV	853.06641	1.12616e-1	96.06907		Ethanol	96.1
2.514	VV	738.28461	1.45586e-1	107.48380		1-Propanol	107.5
2.719	VB	1203.88000	7.87979e-2	94.86322		2-Butanol	94.9
4.767	BB	1062.79773	9.52177e-2	101.19716		1-Butanol	101.2

pass

Data File C:\CHEM32\...1_ALCOHOL_FRONT\120131_ALCOHOL_FRONT 2012-01-31 12-29-31\009F1101.D
Sample Name: BA23103-MSD1

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
Totals :				501.15803		

*** End of Report ***

$$RSD = \left[\frac{|R_1 - R_2|}{Avg(R_1, R_2)}\right] 100$$

$$MeOH = \left[\frac{|101.5 - 94.0|}{Avg(101.5, 94)}\right] 100 = \left[\frac{7.5}{97.75}\right] 100 = 7.67\%$$

$$EtOH = \left[\frac{|96.1 - 92.4|}{Avg(96.1, 92.4)}\right] 100 = \left[\frac{3.7}{94.25}\right] 100 = 3.93\%$$

$$1\text{-Propanol} = \left[\frac{|107.5 - 101.5|}{Avg(107.5, 101.5)}\right] 100 = \left[\frac{6}{104.5}\right] 100 = 5.74\%$$

$$2\text{-Butanol} = \left[\frac{|95.7 - 94.9|}{Avg(95.7, 94.9)}\right] 100 = \left[\frac{0.8}{95.3}\right] 100 = 0.839\%$$

$$1\text{-Butanol} = \left[\frac{|101.2 - 98.4|}{Avg(101.2, 98.4)}\right] 100 = \left[\frac{2.8}{99.8}\right] 100 = 2.81\%$$

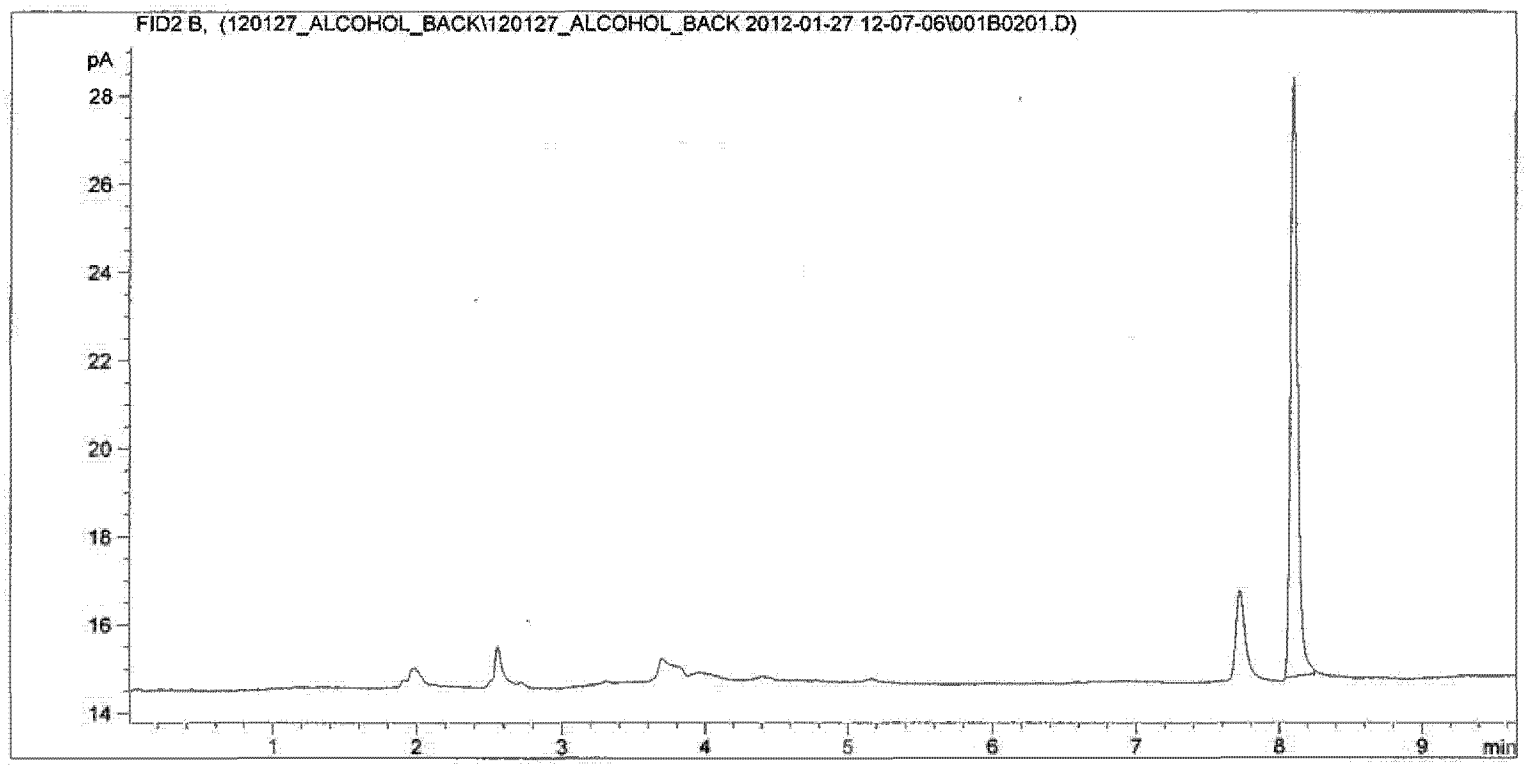
All pass

ACM

Data File C:\CHEM32\...127_ALCOHOL_BACK\120127_ALCOHOL_BACK 2012-01-27 12-07-06\001B0201.D
Sample Name: IBL1

Acq. Operator	: ACM	Seq. Line :	2
Acq. Instrument	: AG3-6890N	Location :	Vial 1
Injection Date	: 1/27/2012 12:23:48 PM	Inj :	1
		Inj Volume :	0.8 µl
Acq. Method	: C:\CHEM32\1\DATA\120127_ALCOHOL_BACK\120127_ALCOHOL_BACK 2012-01-27 12-07-06\ALCOHOLS_BACK.M		
Last changed	: 1/27/2012 10:56:59 AM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120127.M		
Last changed	: 1/27/2012 3:25:45 PM by ACM		
Method Info	: FID method for Alcohol analysis		

Sample Info : water



External Standard Report

Sorted By : Signal
Calib. Data Modified : Friday, January 27, 2012 3:24:18 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Am

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.219		-	-	-		Methanol
2.422		-	-	-		Ethanol
3.079		-	-	-		1-Propanol

Data File C:\CHEM32\...127_ALCOHOL_BACK\120127_ALCOHOL_BACK 2012-01-27 12-07-06\001B0201.D
Sample Name: IBL1

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
3.397		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : Friday, January 27, 2012 3:24:18 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.219		0.0000	0.00000	0.00000	Methanol
2	2.422		0.0000	0.00000	0.00000	Ethanol
3	3.079		0.0000	0.00000	0.00000	1-Propanol
4	3.397		0.0000	0.00000	0.00000	2-Butanol
5	4.399		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

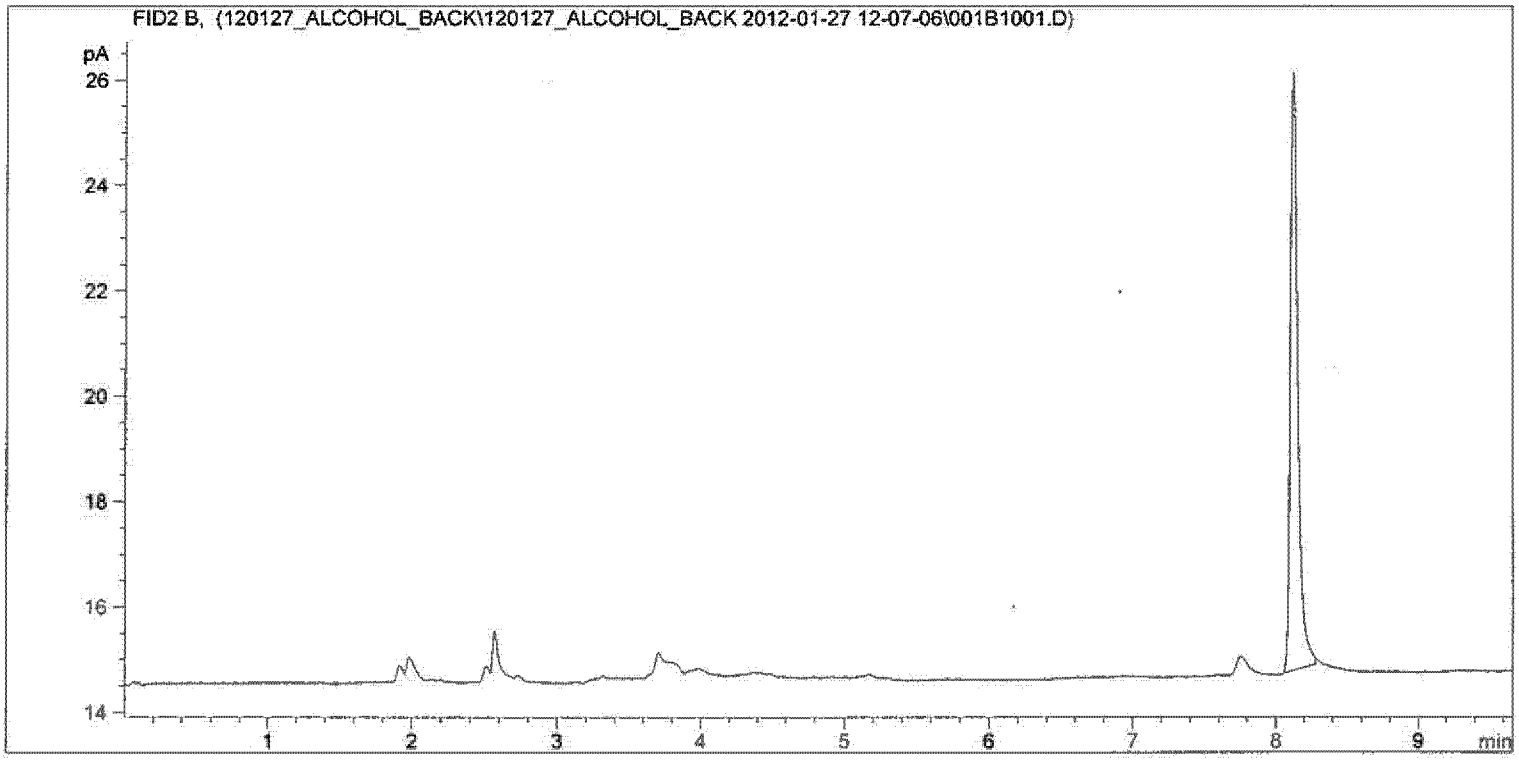
==========

*** End of Report ***

Data File C:\CHEM32\...127_ALCOHOL_BACK\120127_ALCOHOL_BACK 2012-01-27 12-07-06\001B1001.D
Sample Name: IBL2

Acq. Operator	: ACM	Seq. Line :	10
Acq. Instrument	: AG3-6890N	Location :	Vial 1
Injection Date	: 1/27/2012 2:13:43 PM	Inj :	1
		Inj Volume :	0.8 µl
Acq. Method	: C:\CHEM32\1\DATA\120127_ALCOHOL_BACK\120127_ALCOHOL_BACK 2012-01-27 12-07-06\ALCOHOLS_BACK.M		
Last changed	: 1/27/2012 10:56:59 AM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120127.M		
Last changed	: 1/27/2012 3:25:45 PM by ACM		
Method Info	: FID method for Alcohol analysis		

Sample Info : water



External Standard Report

Sorted By : Signal
Calib. Data Modified : Friday, January 27, 2012 3:24:18 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.219		-	-	-		Methanol
2.422		-	-	-		Ethanol
3.079		-	-	-		1-Propanol

Data File C:\CHEM32\...12_ALCOHOL_BACK\12012_ALCOHOL_BACK 2012-01-27 12-07-00\001B1001.D
Sample Name: IBL2

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
3.397		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : Friday, January 27, 2012 3:24:18 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.219		0.0000	0.00000	0.00000	Methanol
2	2.422		0.0000	0.00000	0.00000	Ethanol
3	3.079		0.0000	0.00000	0.00000	1-Propanol
4	3.397		0.0000	0.00000	0.00000	2-Butanol
5	4.399		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==========

*** End of Report ***

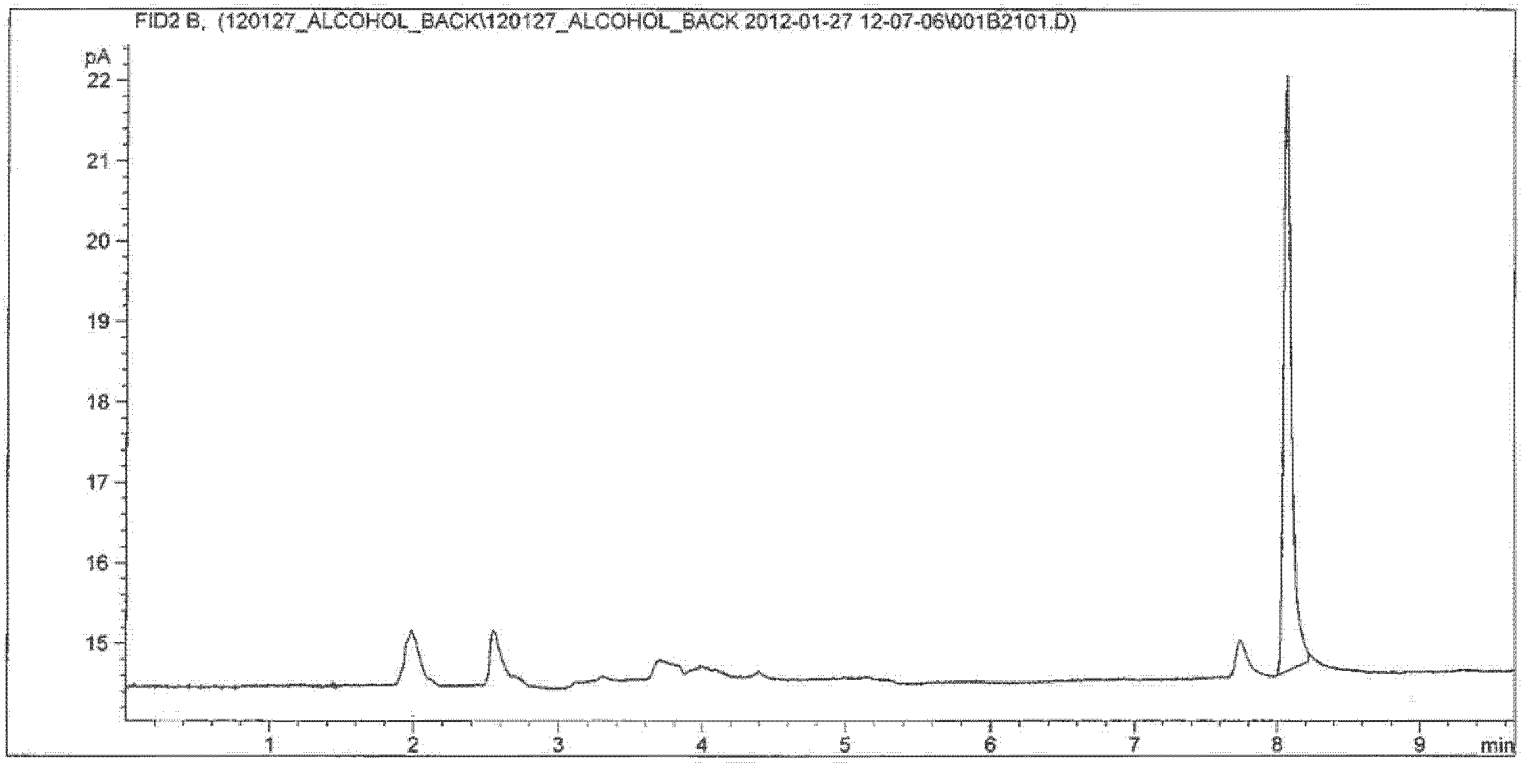
AM

Sample Name: IBL3

Acq. Operator	: ACM	Seq. Line	: 21
Acq. Instrument	: AG3-6890N	Location	: Vial 1
Injection Date	: 1/27/2012 4:44:46 PM	Inj	: 1
		Inj Volume	: 0.8 µl

Acq. Method : C:\CHEM32\1\DATA\120127_ALCOHOL_BACK\120127_ALCOHOL_BACK 2012-01-27 12-07-06\ALCOHOLS_BACK.M
Last changed : 1/27/2012 10:56:59 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120127.M
Last changed : 1/27/2012 3:32:38 PM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : water



External Standard Report

Sorted By : Signal
Calib. Data Modified : Friday, January 27, 2012 3:24:18 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.219		-	-	-		Methanol
2.422		-	-	-		Ethanol
3.079		-	-	-		1-Propanol

Sample Name: IBL3

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
3.397		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : Friday, January 27, 2012 3:24:18 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.219		0.0000	0.00000	0.00000	Methanol
2	2.422		0.0000	0.00000	0.00000	Ethanol
3	3.079		0.0000	0.00000	0.00000	1-Propanol
4	3.397		0.0000	0.00000	0.00000	2-Butanol
5	4.399		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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*** End of Report ***

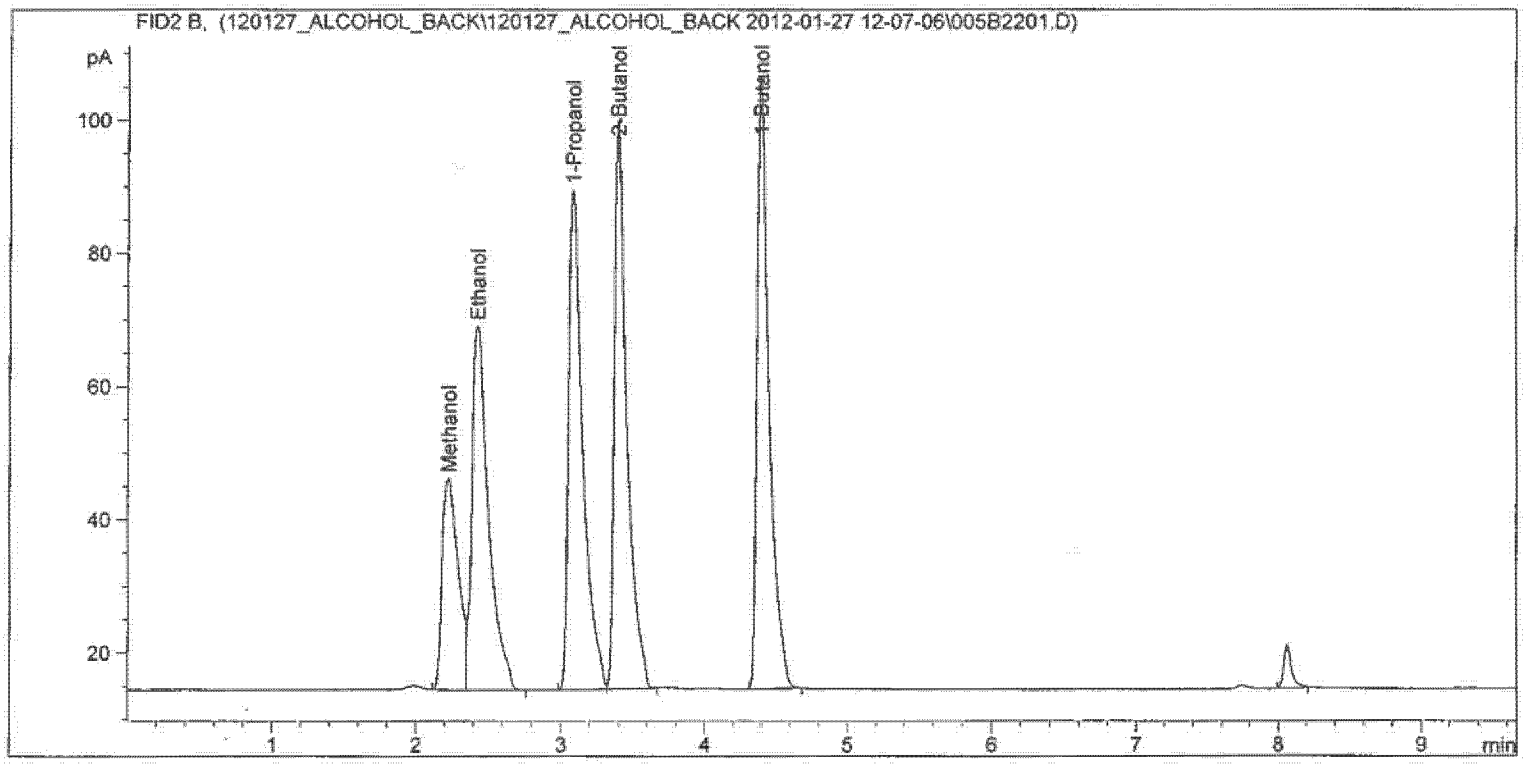
Am

Sample Name: CCV1

Acq. Operator	: ACM	Seq. Line	: 22
Acq. Instrument	: AG3-6890N	Location	: Vial 5
Injection Date	: 1/27/2012 4:58:31 PM	Inj	: 1
		Inj Volume	: 0.8 µl

Acq. Method : C:\CHEM32\1\DATA\120127_ALCOHOL_BACK\120127_ALCOHOL_BACK 2012-01-27 12-07-06\ALCOHOLS_BACK.M
Last changed : 1/27/2012 10:56:59 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120127.M
Last changed : 1/27/2012 3:32:38 PM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : ALCal4-111122-ACM



External Standard Report

Acm

Sorted By : Signal
Calib. Data Modified : Friday, January 27, 2012 3:24:18 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%D
2.228	VV	243.38525	4.02690e-1	98.00870		Methanol	2.00
2.428	VB	437.38043	2.20766e-1	96.55885		Ethanol	3.44
3.084	BV	509.81918	1.91955e-1	97.86231		1-Propanol	2.14

Sample Name: CCV1

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%D
3.396	VB	512.57703	1.90840e-1	97.82013		2-Butanol	2.18
4.396	BB	543.45624	1.79897e-1	97.76621		1-Butanol	2.23
Totals :				488.01620			

*** End of Report ***

pass

Am

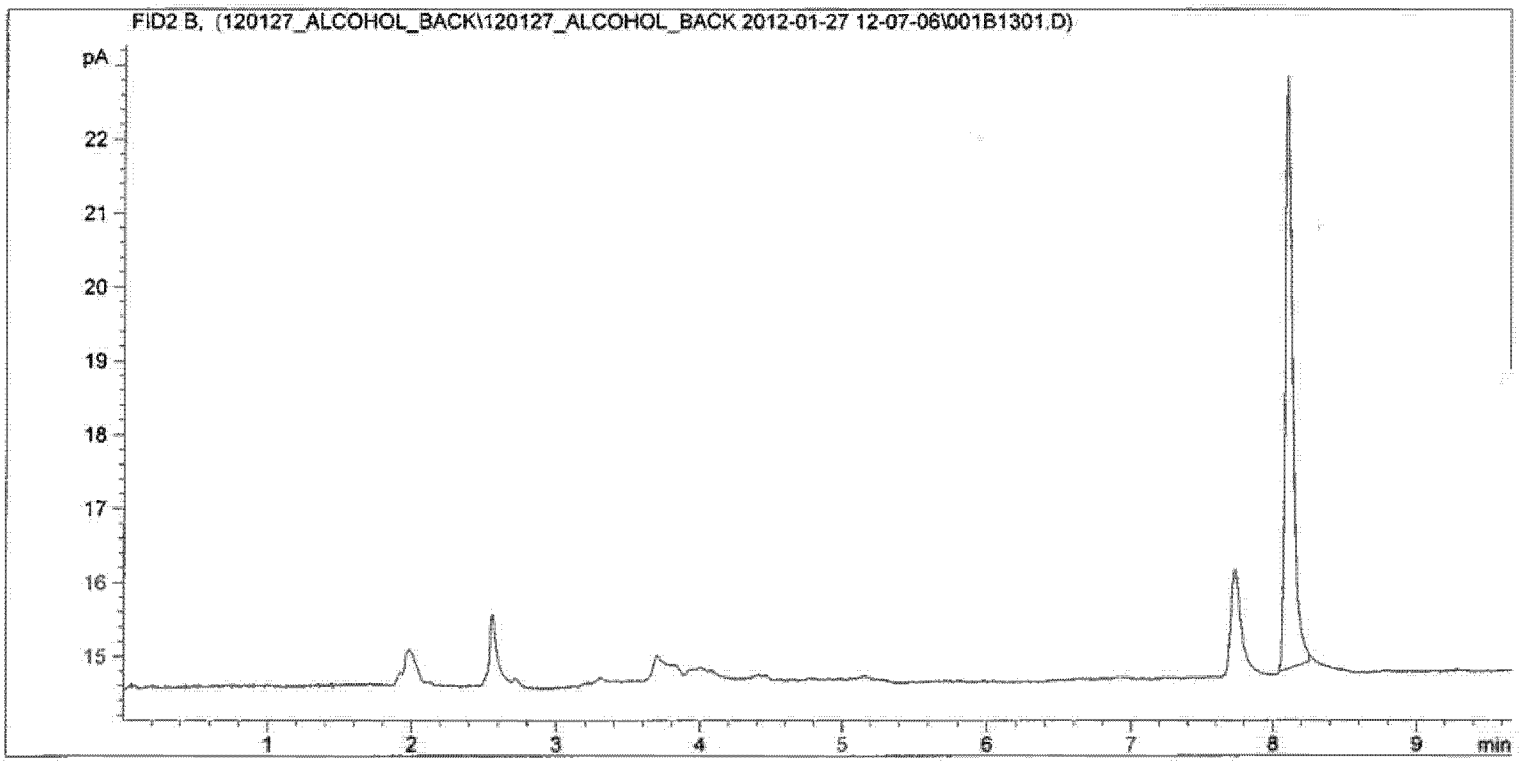
DIM0213954 DIM0214130

Data File C:\CHEM32\...127_ALCOHOL_BACK\120127_ALCOHOL_BACK 2012-01-27 12-07-06\001B1301.D
Sample Name: BA22701-BLK1

==========

Acq. Operator : ACM
Seq. Line : 13
Acq. Instrument : AG3-6890N
Location : Vial 1
Injection Date : 1/27/2012 2:54:51 PM
Inj : 1
Inj Volume : 0.8 µl
Acq. Method : C:\CHEM32\1\DATA\120127_ALCOHOL_BACK\120127_ALCOHOL_BACK 2012-01-27 12-07-06\ALCOHOLS_BACK.M
Last changed : 1/27/2012 10:56:59 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120127.M
Last changed : 1/27/2012 3:25:45 PM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : water



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : Friday, January 27, 2012 3:24:18 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.219		-	-	-		Methanol
2.422		-	-	-		Ethanol
3.079		-	-	-		1-Propanol

Sample Name: BA22701-BLK1

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
3.397		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : Friday, January 27, 2012 3:24:18 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.219		0.0000	0.00000	0.00000	Methanol
2	2.422		0.0000	0.00000	0.00000	Ethanol
3	3.079		0.0000	0.00000	0.00000	1-Propanol
4	3.397		0.0000	0.00000	0.00000	2-Butanol
5	4.399		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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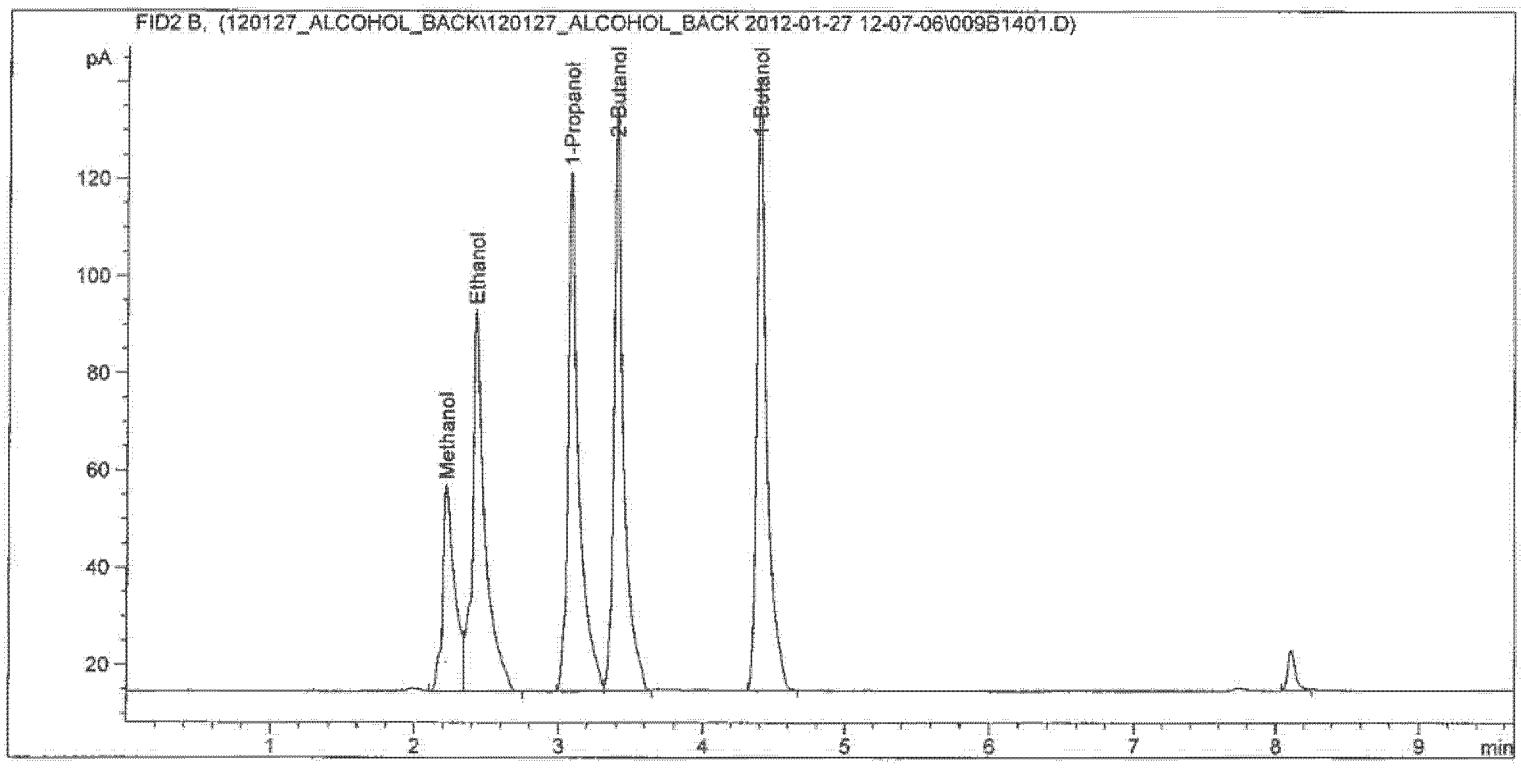
*** End of Report ***

Aen

Sample Name: BA22701-BS1

Acq. Operator	: ACM	Seq. Line :	14
Acq. Instrument	: AG3-6890N	Location :	Vial 9
Injection Date	: 1/27/2012 3:08:35 PM	Inj :	1
		Inj Volume :	0.8 µl

Acq. Method : C:\CHEM32\1\DATA\120127_ALCOHOL_BACK\120127_ALCOHOL_BACK 2012-01-27 12-07-06\ALCOHOLS_BACK.M
Last changed : 1/27/2012 10:56:59 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120127.M
Last changed : 1/27/2012 3:25:45 PM by ACM
Method Info : FID method for Alcohol analysis



External Standard Report

Sorted By : Signal
Calib. Data Modified : Friday, January 27, 2012 3:24:18 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

AM

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	% Rec
2.221	VV	247.88197	4.02653e-1	99.81033		Methanol	99.8
2.428	VB	471.45963	2.21020e-1	104.20220		Ethanol	104.2
3.086	BV	549.27289	1.92032e-1	105.47799		1-Propanol	105.5
3.404	VV	545.44446	1.90865e-1	104.10633		2-Butanol	104.1
4.403	BB	601.11401	1.79885e-1	108.13125		1-Butanol	108.1

Sample Name: BA22701-BS1

Totals : 521.72810

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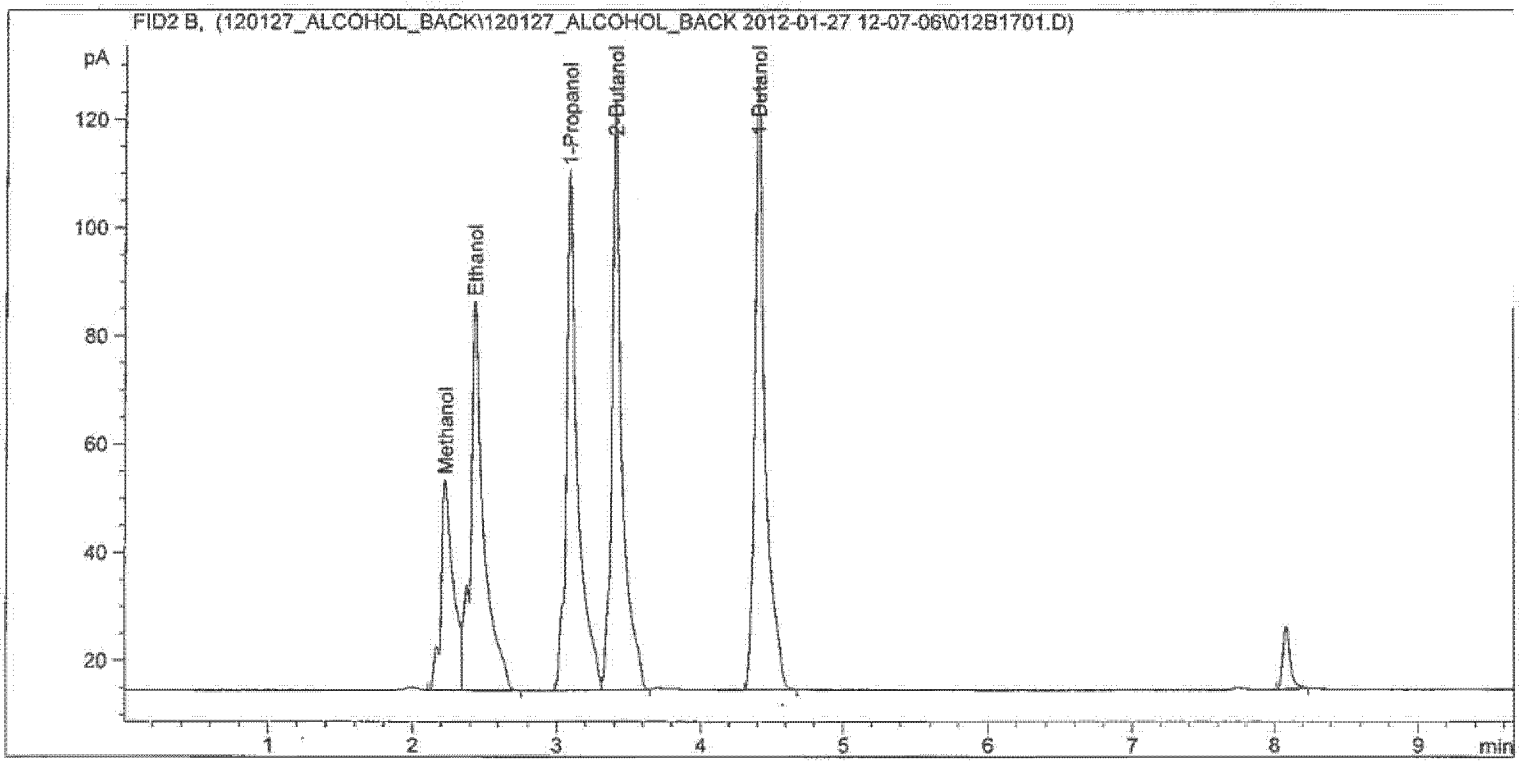
*** End of Report ***

Pass

Sample Name: BA22701-MS1

Acq. Operator	: ACM	Seq. Line :	17
Acq. Instrument	: AG3-6890N	Location :	Vial 12
Injection Date	: 1/27/2012 3:49:51 PM	Inj :	1
		Inj Volume :	0.8 µl

Acq. Method : C:\CHEM32\1\DATA\120127_ALCOHOL_BACK\120127_ALCOHOL_BACK 2012-01-27 12-07-06\ALCOHOLS_BACK.M
Last changed : 1/27/2012 10:56:59 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120127.M
Last changed : 1/27/2012 3:32:38 PM by ACM
Method Info : FID method for Alcohol analysis



External Standard Report

Am

Sorted By : Signal
Calib. Data Modified : Friday, January 27, 2012 3:24:18 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%Rec
2.226	VV	226.63124	4.02840e-1	91.29615		Methanol	91.3
2.433	VB	455.31824	2.20905e-1	100.58198		Ethanol	100.6
3.091	BV	520.24133	1.91976e-1	99.87408		1-Propanol	99.9
3.406	VV	518.86383	1.90845e-1	99.02254		2-Butanol	99.0
4.404	BB	568.41022	1.79891e-1	102.25214		1-Butanol	102.3

Sample Name: BA22701-MS1

Totals : 493.02689

*** End of Report ***

Pass

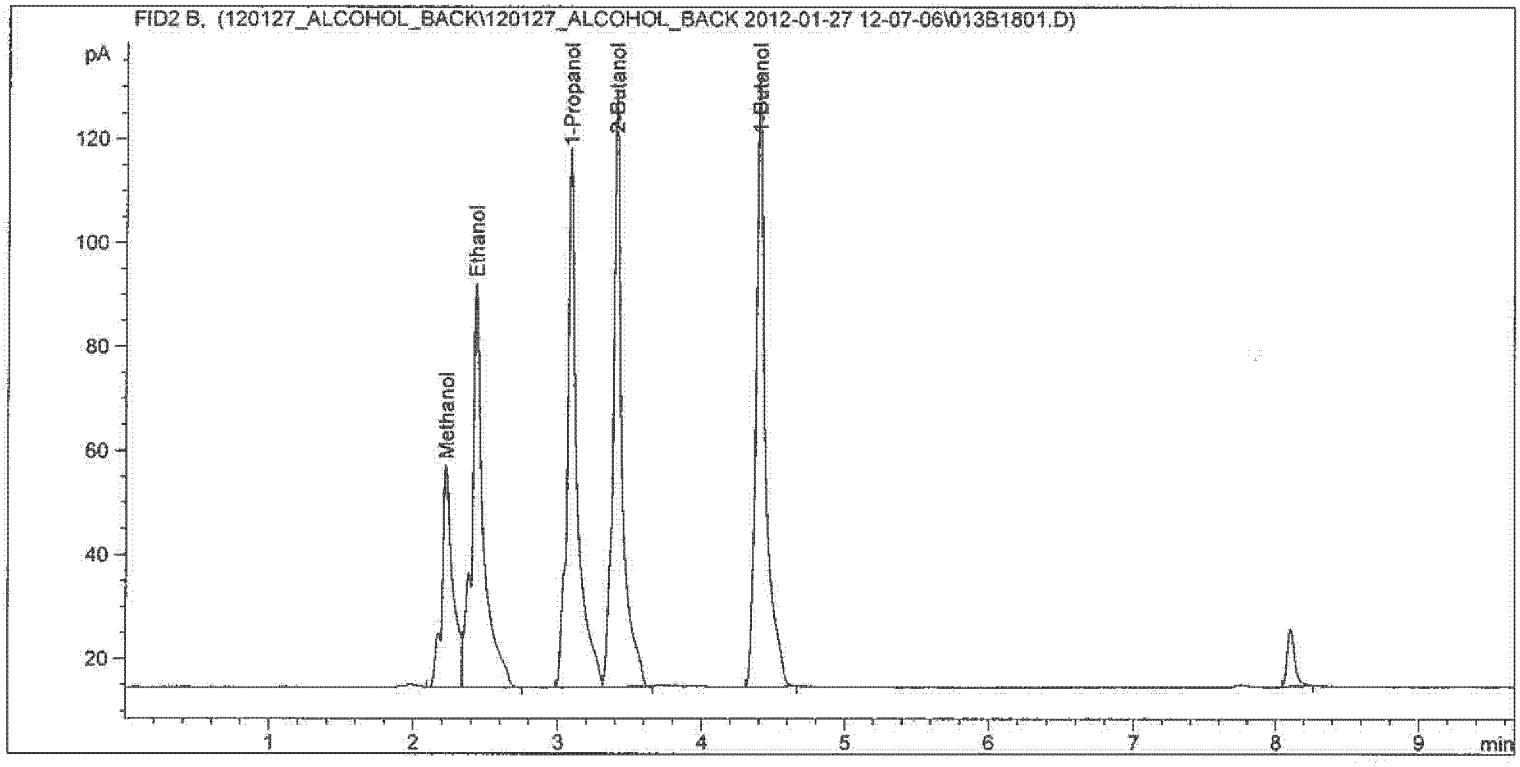
Data file C:\CHEM32\...127_ALCOHOL_BACK\120127_ALCOHOL_BACK 2012-01-27 12-07-06\013B1801.D
Sample Name: BA22701-MSD

==========

Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 1/27/2012 4:03:36 PM

Seq. Line : 18
Location : Vial 13
Inj : 1
Inj Volume : 0.8 µl

Acq. Method : C:\CHEM32\1\DATA\120127_ALCOHOL_BACK\120127_ALCOHOL_BACK 2012-01-27 12-07-06\ALCOHOLS_BACK.M
Last changed : 1/27/2012 10:56:59 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120127.M
Last changed : 1/27/2012 3:32:38 PM by ACM
Method Info : FID method for Alcohol analysis



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : Friday, January 27, 2012 3:24:18 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	% Rec
2.225	VV	223.85640	4.02867e-1	90.18440		Methanol	90.2
2.433	VB	427.35800	2.20684e-1	94.31099		Ethanol	94.3
3.089	BV	495.98944	1.91925e-1	95.19278		1-Propanol	95.2
3.406	VB	493.64758	1.90824e-1	94.19971		2-Butanol	94.2
4.403	BB	543.03424	1.79897e-1	97.69034		1-Butanol	97.7

Totals : 471.57823

*** End of Report ***

$$RPD = \left[\frac{|R_1 - R_2|}{Avg(R_1, R_2)}\right] 100$$

$$MeOH = \left[\frac{|90.2 - 91.3|}{Avg(90.2, 91.3)}\right] 100 = \left(\frac{1.1}{90.75}\right) 100 = 1.21\%$$

$$EtOH = \left[\frac{|100.6 - 94.3|}{Avg(100.6, 94.3)}\right] 100 = \left(\frac{6.3}{97.45}\right) 100 = 6.46\%$$

$$1\text{-Propanol} = \left[\frac{|95.2 - 99.9|}{Avg(95.2, 99.9)}\right] 100 = \left(\frac{4.2}{97.55}\right) 100 = 4.31\%$$

$$2\text{-butanol} = \left[\frac{|94.2 - 99.0|}{Avg(94.2, 99.0)}\right] 100 = \left[\frac{4.8}{96.6}\right] 100 = 4.97\%$$

$$1\text{-butanol} = \left[\frac{|97.7 - 102.3|}{Avg(97.7, 102.3)}\right] 100 = \left(\frac{4.6}{100}\right) 100 = 4.6\%$$

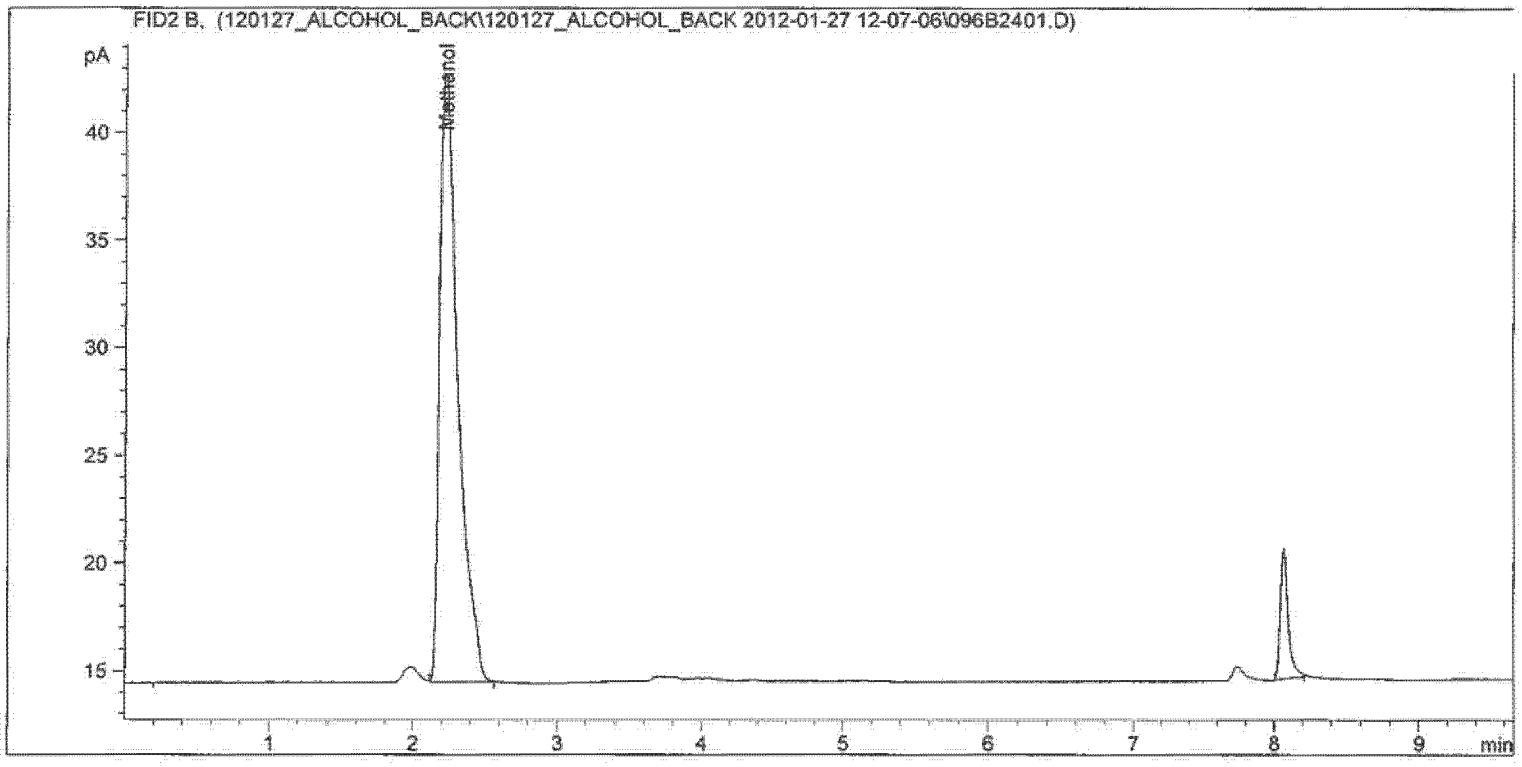
All pass

Am

Data File C:\CHEM32\...127_ALCOHOL_BACK\120127_ALCOHOL_BACK 2012-01-27 12-07-06\096B2401.D
Sample Name: MeOH 100ppm

Acq. Operator	: ACM	Seq. Line :	24
Acq. Instrument	: AG3-6890N	Location :	Vial 96
Injection Date	: 1/27/2012 5:26:02 PM	Inj :	1
		Inj Volume :	0.8 µl
Acq. Method	: C:\CHEM32\1\DATA\120127_ALCOHOL_BACK\120127_ALCOHOL_BACK 2012-01-27 12-07-06\ALCOHOLS_BACK.M		
Last changed	: 1/27/2012 10:56:59 AM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120127.M		
Last changed	: 1/27/2012 3:32:38 PM by ACM		
Method Info	: FID method for Alcohol analysis		

Sample Info : RT chk



External Standard Report

Sorted By : Signal
Calib. Data Modified : Friday, January 27, 2012 3:24:18 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

for RT match only.

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.225	VB	252.01791	4.02620e-1	101.46741		Methanol
2.422		-	-	-		Ethanol
3.079		-	-	-		1-Propanol

A 1/28/12

Data File C:\CHEM32\...127_ALCOHOL_BACK\120127_ALCOHOL_BACK 2012-01-27 12-07-
Sample Name: MeOH 100ppm

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
3.397		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

Totals : 101.46741

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

*** End of Report ***

AG3-6890N 1/28/2012 10:34:00 AM ACM

Data File C:\CHEM32\...127_ALCOHOL_BACK\120127_ALCOHOL_BACK 2012-01-27 12-07-06\096B2401.D
Sample Name: MeOH 100ppm

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp *	Name
3.397		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

Totals : 101.46741

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

*** End of Report ***

Am

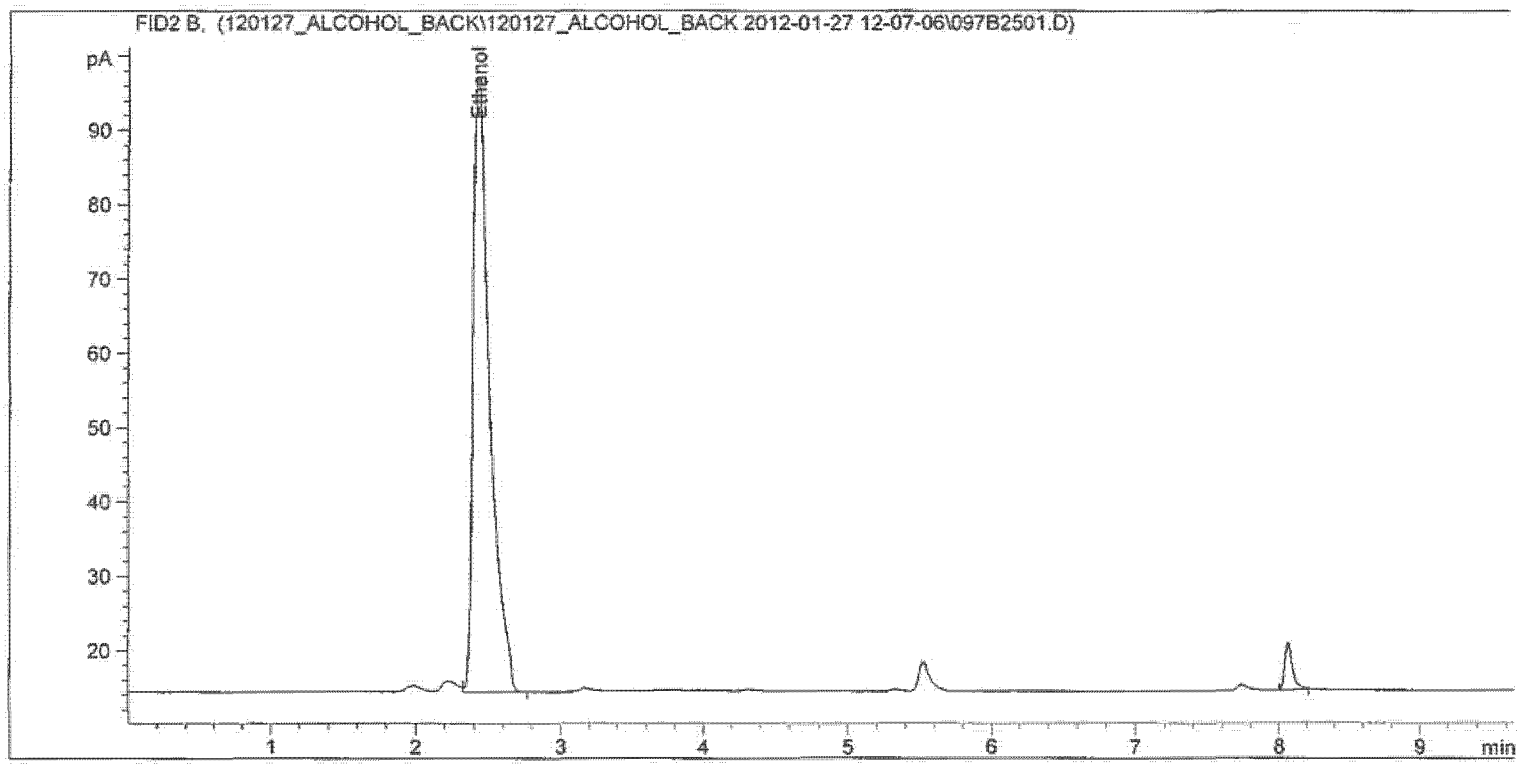
Data File C:\CHEM32\1\DATA\120127_ALCOHOL_BACK\120127_ALCOHOL_BACK 2012-01-27 12-07-06\097B2501.D
Sample Name: EtOH ~~100~~ppm

DK 1/28/12

Acq. Operator	: ACM	Seq. Line	: 25
Acq. Instrument	: AG3-6890N	Location	: Vial 97
Injection Date	: 1/27/2012 5:39:48 PM	Inj	: 1
		Inj Volume	: 0.8 µl

Acq. Method : C:\CHEM32\1\DATA\120127_ALCOHOL_BACK\120127_ALCOHOL_BACK 2012-01-27 12-07-06\ALCOHOLS_BACK.M
Last changed : 1/27/2012 10:56:59 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120127.M
Last changed : 1/27/2012 3:32:38 PM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : RT chk



External Standard Report

Sorted By : Signal
Calib. Data Modified : Friday, January 27, 2012 3:24:18 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

For RT match only

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.219		-	-	-		Methanol
2.431	VB	659.17627	2.21949e-1	146.30370		Ethanol
3.079		-	-	-		1-Propanol

Am 1-28-12

Data File C:\CHEM32\...127_ALCOHOL_BACK\120127_ALCOHOL_BACK 2012-01-27 12-07-06\097B2501.D
Sample Name: EtOH 100ppm

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
3.397		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

Totals : 146.30370

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

*** End of Report ***

File C:\CHEM32\...127_ALCOHOL_BACK\120127_ALCOHOL_BACK 2012-01-27 12-07-06\(
Sample Name: 1-Propanol 100pp

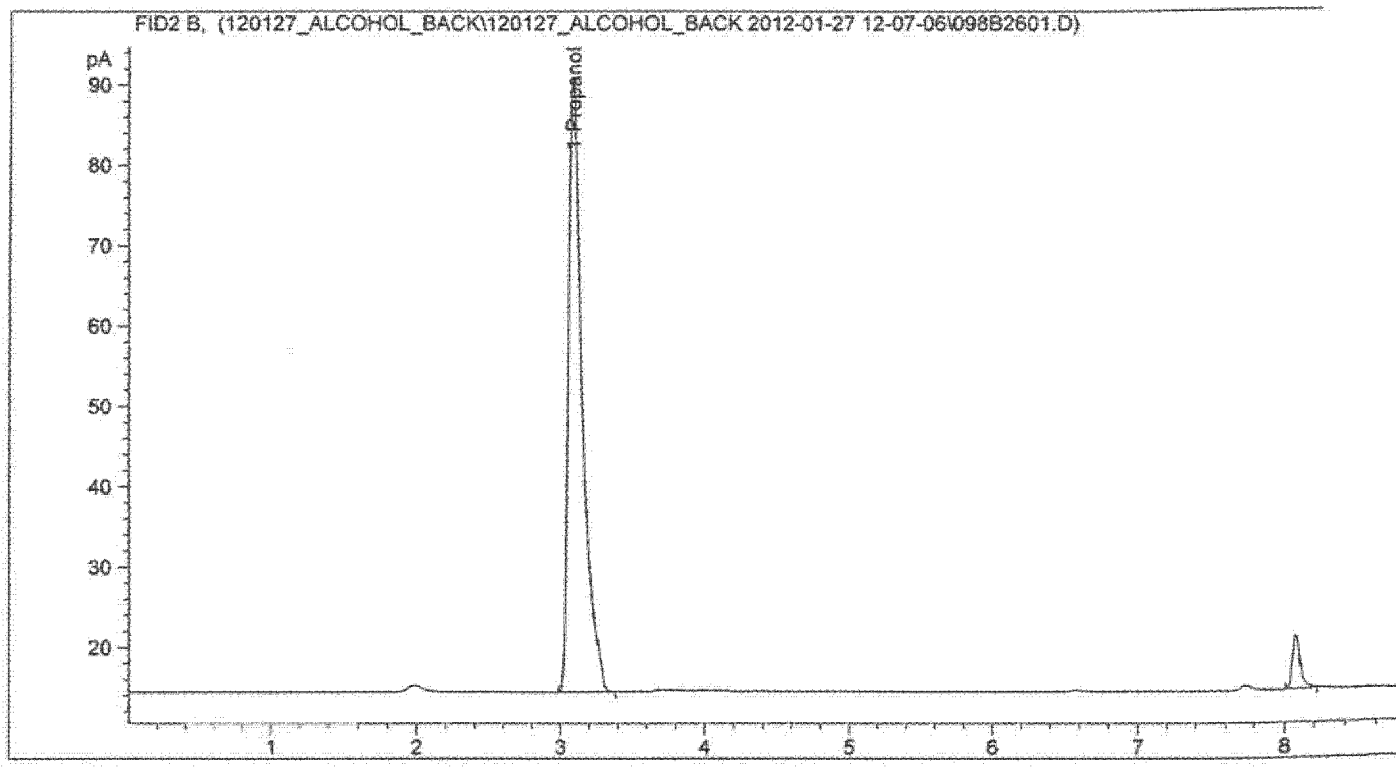
==========

Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 1/27/2012 5:53:33 PM

Seq. Line : 26
Location : Vial 98
Inj : 1
Inj Volume : 0.8 µl

Acq. Method : C:\CHEM32\1\DATA\120127_ALCOHOL_BACK\120127_ALCOHOL_BACK 2012 06\ALCOHOLS_BACK.M
Last changed : 1/27/2012 10:56:59 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120127.M
Last changed : 1/27/2012 3:32:38 PM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : RT chk



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : Friday, January 27, 2012 3:24:18 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

for RT mat only

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.219		-	-	-		Methanol
2.422		-	-	-		Ethanol
3.084	BB	510.50854	1.91956e-1	97.99538		1-Propanol

AL 1-28-12

AG3-6890N 1/28/2012 10:34:18 AM ACM

Data File C:\CHEM32\...127_ALCOHOL_BACK\120127_ALCOHOL_BACK 2012-01-27 12-07-06\097B2501.D
Sample Name: EtOH 100ppm

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
3.397		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

Totals : 146.30370

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

*** End of Report ***

Sample Name: 1-Propanol 100pp

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
3.397		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

Totals : 97.99538

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

*** End of Report ***

A

Data File C:\CHEM32\...130_ALCOHOL_BACK\120130_ALCOHOL_BACK 2012-01-30 07-35-11\001B0201.D
Sample Name: IBL1

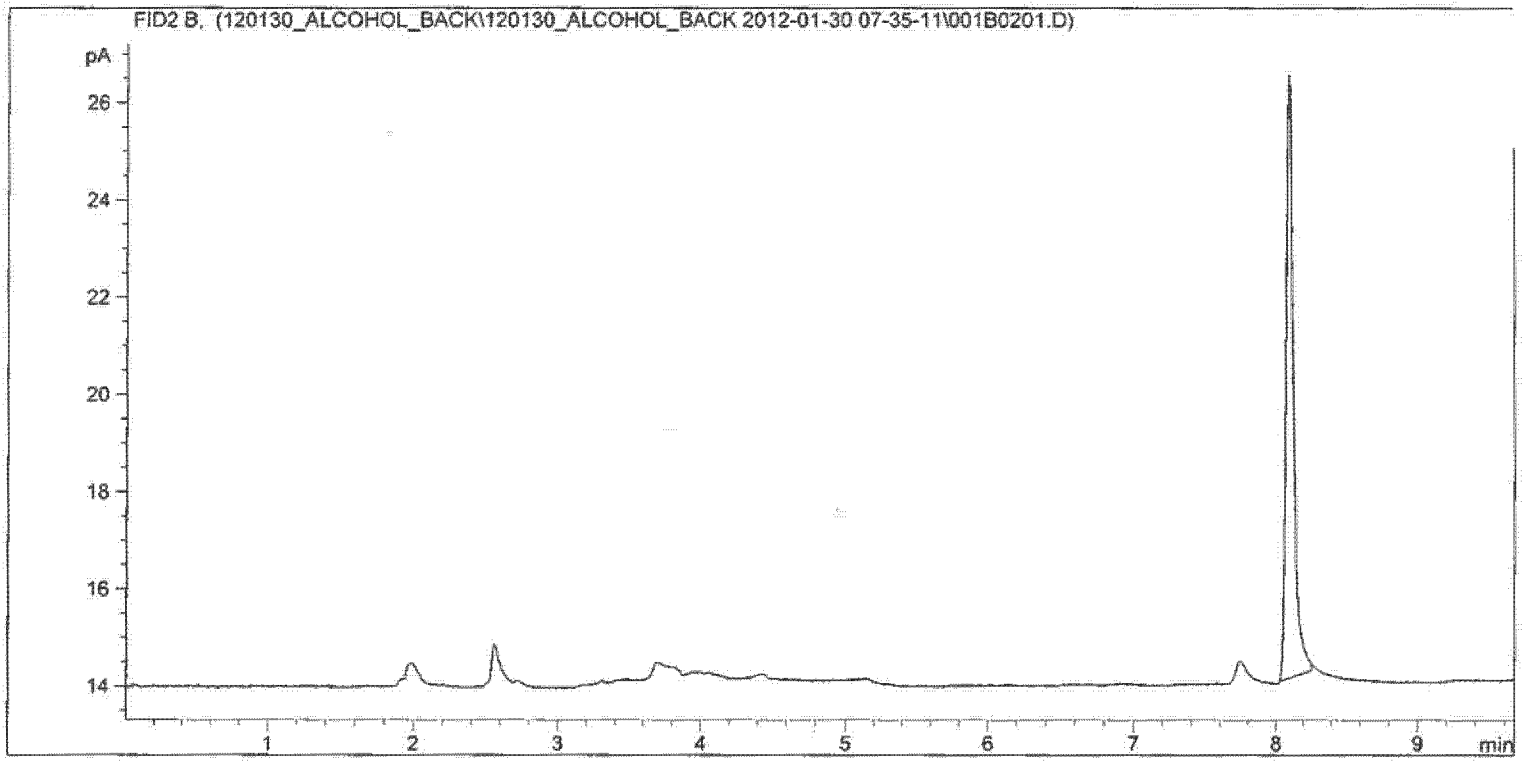
==========

Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 1/30/2012 7:51:47 AM

Seq. Line : 2
Location : Vial 1
Inj : 1
Inj Volume : 0.8 µl

Acq. Method : C:\CHEM32\1\DATA\120130_ALCOHOL_BACK\120130_ALCOHOL_BACK 2012-01-30 07-35-11\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120127.M
Last changed : 1/31/2012 7:20:10 AM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : water



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 1/31/2012 7:19:29 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Aen

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.224		-	-	-		Methanol
2.431		-	-	-		Ethanol
3.088		-	-	-		1-Propanol

Data File C:\CHEM32\...130_ALCOHOL_BACK\120130_ALCOHOL_BACK 2012-01-30 07-35-11\001B0201.D
Sample Name: IBL1

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
3.406		-	-	-		2-Butanol
4.404		-	-	-		1-Butanol

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

==========
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Area Percent Report

==========

Sorted By : Signal
Calib. Data Modified : 1/31/2012 7:19:29 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.224		0.0000	0.00000	0.00000	Methanol
2	2.431		0.0000	0.00000	0.00000	Ethanol
3	3.088		0.0000	0.00000	0.00000	1-Propanol
4	3.406		0.0000	0.00000	0.00000	2-Butanol
5	4.404		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

==========

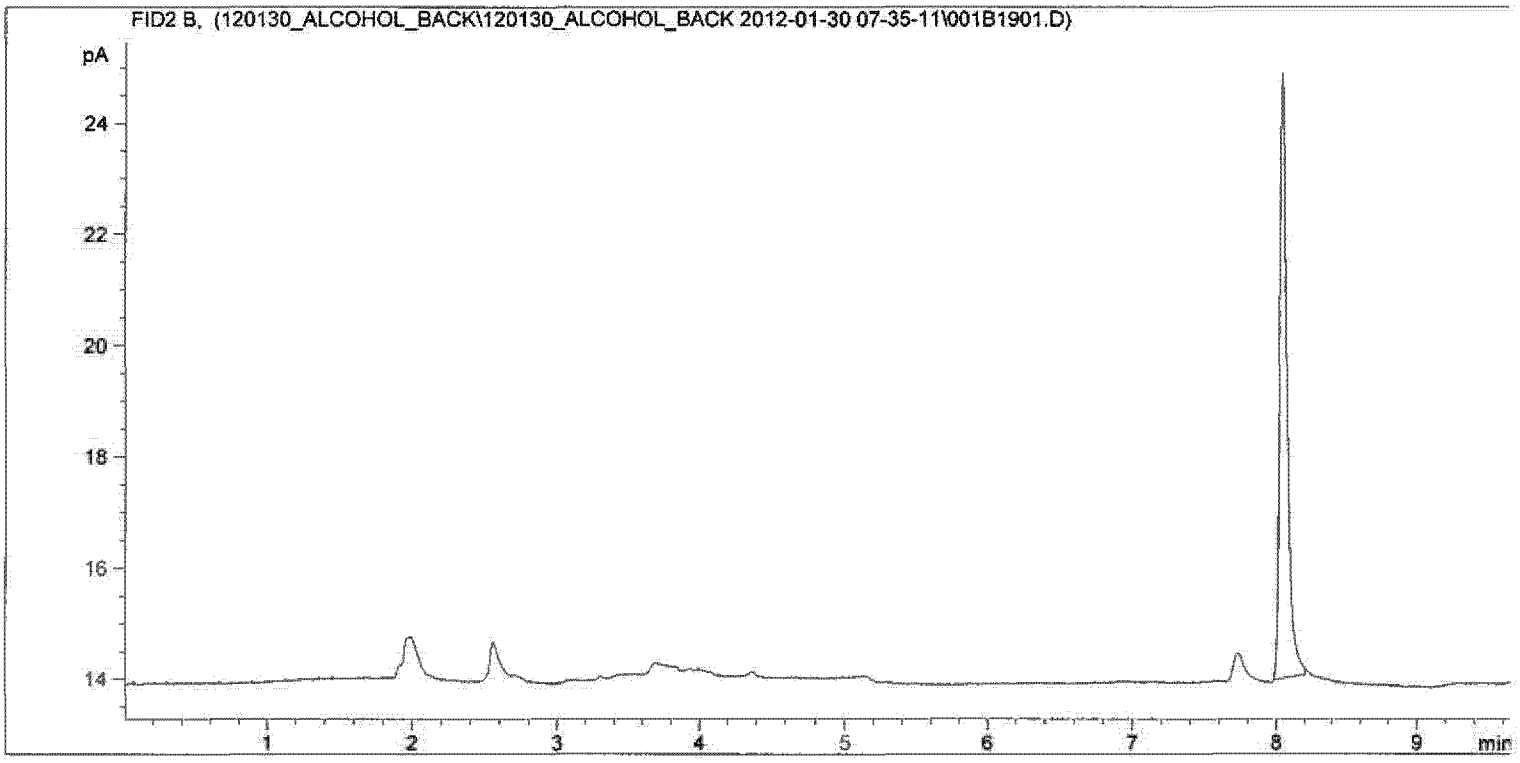
*** End of Report ***

Data File C:\CHEM32\...130_ALCOHOL_BACK\120130_ALCOHOL_BACK 2012-01-30 07-35-11\001B1901.D
Sample Name: IBL2

==========

Acq. Operator : ACM Seq. Line : 19
Acq. Instrument : AG3-6890N Location : Vial 1
Injection Date : 1/30/2012 11:45:04 AM Inj : 1
Inj Volume : 0.8 µl
Acq. Method : C:\CHEM32\1\DATA\120130_ALCOHOL_BACK\120130_ALCOHOL_BACK 2012-01-30 07-35-11\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120127.M
Last changed : 1/31/2012 7:20:10 AM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : water



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 1/31/2012 7:19:29 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.224		-	-	-		Methanol
2.431		-	-	-		Ethanol
3.088		-	-	-		1-Propanol

Data File C:\CHEM32\...130_ALCOHOL_BACK\120130_ALCOHOL_BACK 2012-01-30 07-35-11\001B1901.D
Sample Name: IBL2

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
3.406		-	-	-		2-Butanol
4.404		-	-	-		1-Butanol

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

==========
==========

Area Percent Report

==========

Sorted By : Signal
Calib. Data Modified : 1/31/2012 7:19:29 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.224		0.0000	0.00000	0.00000	Methanol
2	2.431		0.0000	0.00000	0.00000	Ethanol
3	3.088		0.0000	0.00000	0.00000	1-Propanol
4	3.406		0.0000	0.00000	0.00000	2-Butanol
5	4.404		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

==========

*** End of Report ***

Data File C:\CHEM32\...130_ALCOHOL_BACK\120130_ALCOHOL_BACK 2012-01-30 07-35-11\002B0301.D
Sample Name: CCV1

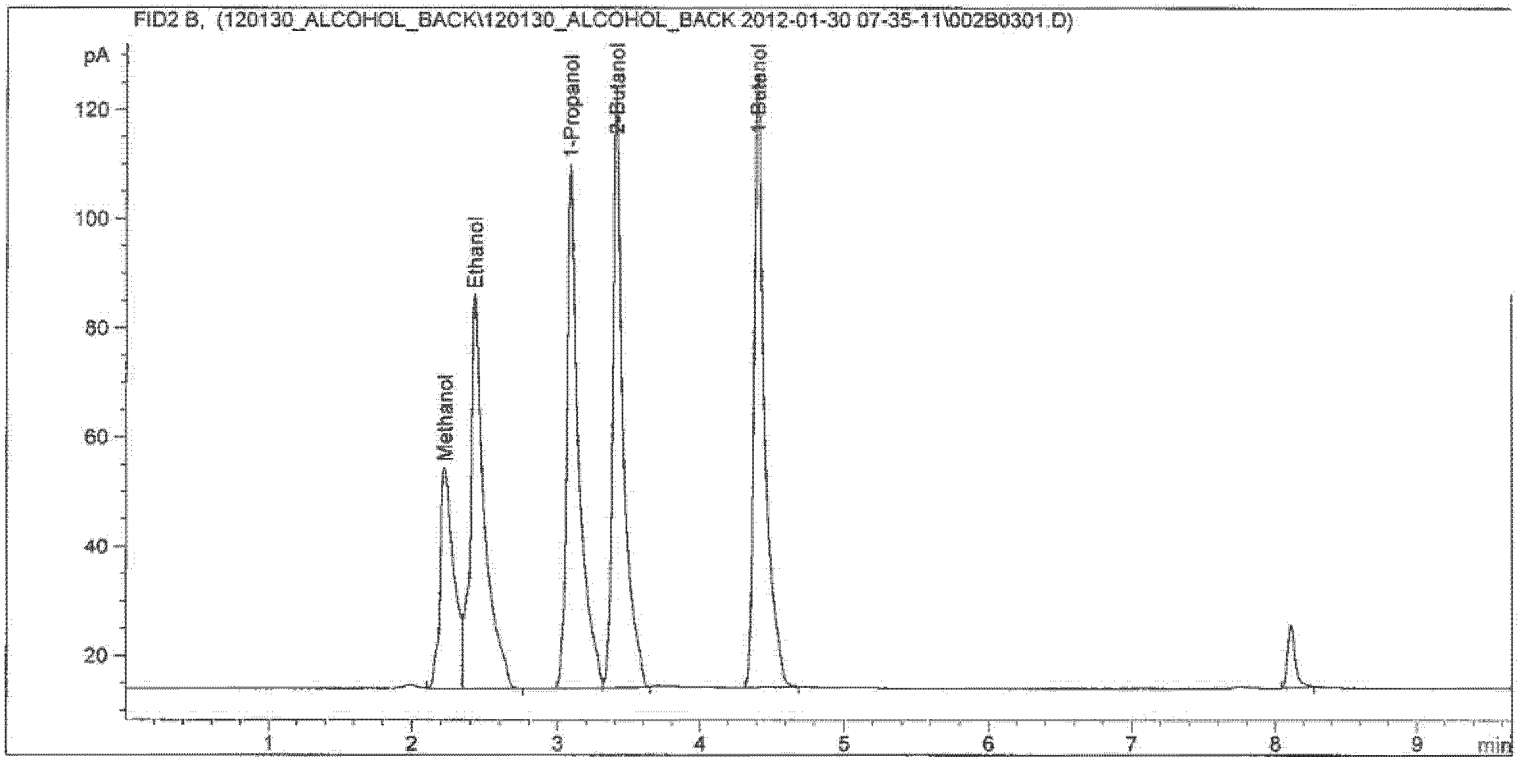
==========

Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 1/30/2012 8:05:30 AM

Seq. Line : 3
Location : Vial 2
Inj : 1
Inj Volume : 0.8 µl

Acq. Method : C:\CHEM32\1\DATA\120130_ALCOHOL_BACK\120130_ALCOHOL_BACK 2012-01-30 07-35-11\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120127.M
Last changed : 1/31/2012 7:20:10 AM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : ALCal4-111122-ACM



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 1/31/2012 7:19:29 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

AM

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%D
2.224	VV	261.39554	4.02549e-1	105.22459		Methanol	5.22
2.430	VB	486.86139	2.21124e-1	107.65654		Ethanol	7.66
3.088	BV	550.29004	1.92034e-1	105.67433		1-Propanol	5.67

Data File C:\CHEM32\...130_ALCOHOL_BACK\120130_ALCOHOL_BACK 2012-01-30 07-35-11\002B0301.D
Sample Name: CCV1

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%D
3.406	VV	553.93390	1.90871e-1	105.73001		2-Butanol	5.73
4.404	BB	581.20911	1.79889e-1	104.55298		1-Butanol	4.55

Totals : 528.83844

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

*** End of Report ***

- pass

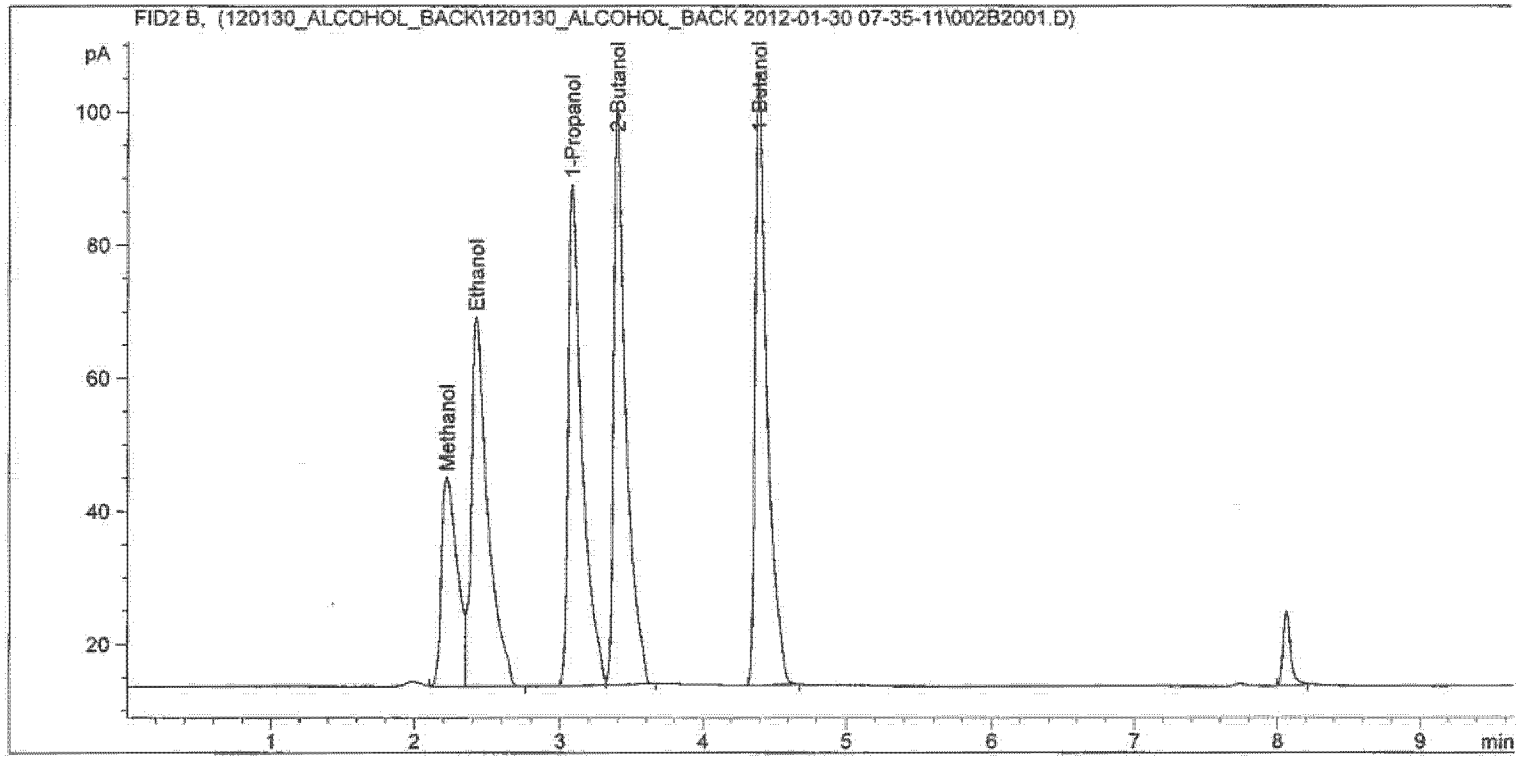
Am

Data File C:\CHEM32\...130_ALCOHOL_BACK\120130_ALCOHOL_BACK 2012-01-30 07-35-11\002B2001.D
Sample Name: CCV2

Acq. Operator	: ACM	Seq. Line	: 20
Acq. Instrument	: AG3-6890N	Location	: Vial 2
Injection Date	: 1/30/2012 11:58:47 AM	Inj	: 1
		Inj Volume	: 0.8 µl

Acq. Method : C:\CHEM32\1\DATA\120130_ALCOHOL_BACK\120130_ALCOHOL_BACK 2012-01-30 07-35-11\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120127.M
Last changed : 1/31/2012 7:20:10 AM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : ALCal4-111122-ACM



External Standard Report

Sorted By : Signal
Calib. Data Modified : 1/31/2012 7:19:29 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%D
2.225	VV	236.16620	4.02752e-1	95.11637		Methanol	4.88
2.428	VB	434.17502	2.20740e-1	95.83993		Ethanol	4.16
3.087	BV	499.15848	1.91932e-1	95.80450		1-Propanol	4.19

Data File C:\CHEM32\...130_ALCOHOL_BACK\120130_ALCOHOL_BACK 2012-01-30 07-35-11\002B2001.D
Sample Name: CCV2

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%D
3.400	VB	508.21350	1.90836e-1	96.98557		2-Butanol	3.01
4.398	BB	532.37073	1.79900e-1	95.77338		1-Butanol	4.23

Totals : 479.51974

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

*** End of Report ***

Pass

Data File C:\CHEM32\...130_ALCOHOL_BACK\120130_ALCOHOL_BACK 2012-01-30 07-35-11\003B0501.D
Sample Name: BA23001-BLK1

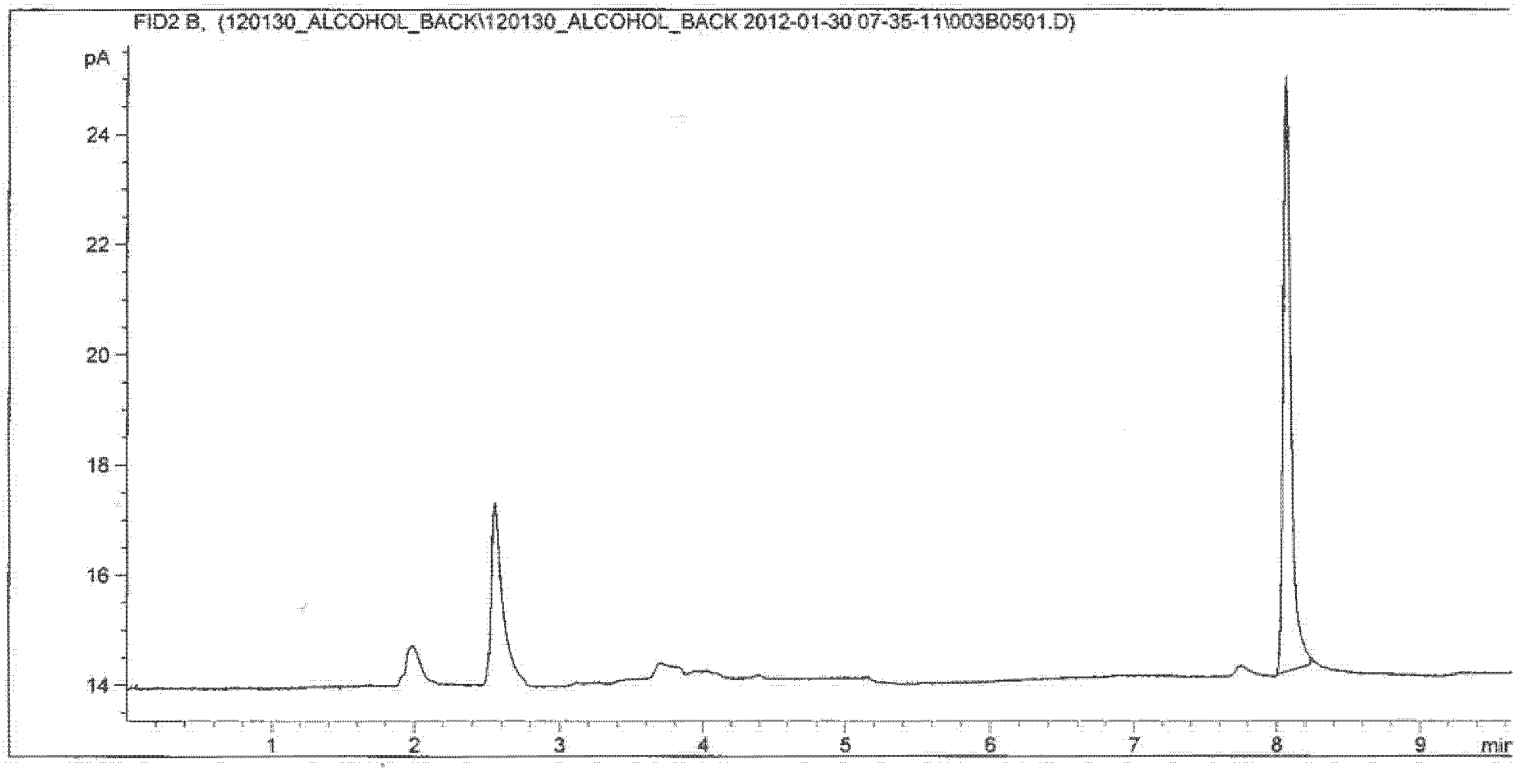
==========

Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 1/30/2012 8:32:58 AM

Seq. Line : 5
Location : Vial 3
Inj : 1
Inj Volume : 0.8 µl

Acq. Method : C:\CHEM32\1\DATA\120130_ALCOHOL_BACK\120130_ALCOHOL_BACK 2012-01-30 07-35-11\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120127.M
Last changed : 1/31/2012 7:20:10 AM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : water



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 1/31/2012 7:19:29 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Am

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.224		-	-	-		Methanol
2.431		-	-	-		Ethanol
3.088		-	-	-		1-Propanol

Data File C:\CHEM32\...130_ALCOHOL_BACK\120130_ALCOHOL_BACK 2012-01-30 07-35-11\003B0501.D
Sample Name: BA23001-BLK1

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
3.406		-	-	-		2-Butanol
4.404		-	-	-		1-Butanol

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

==========

Area Percent Report

==========

Sorted By : Signal
Calib. Data Modified : 1/31/2012 7:19:29 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.224		0.0000	0.00000	0.00000	Methanol
2	2.431		0.0000	0.00000	0.00000	Ethanol
3	3.088		0.0000	0.00000	0.00000	1-Propanol
4	3.406		0.0000	0.00000	0.00000	2-Butanol
5	4.404		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

==========

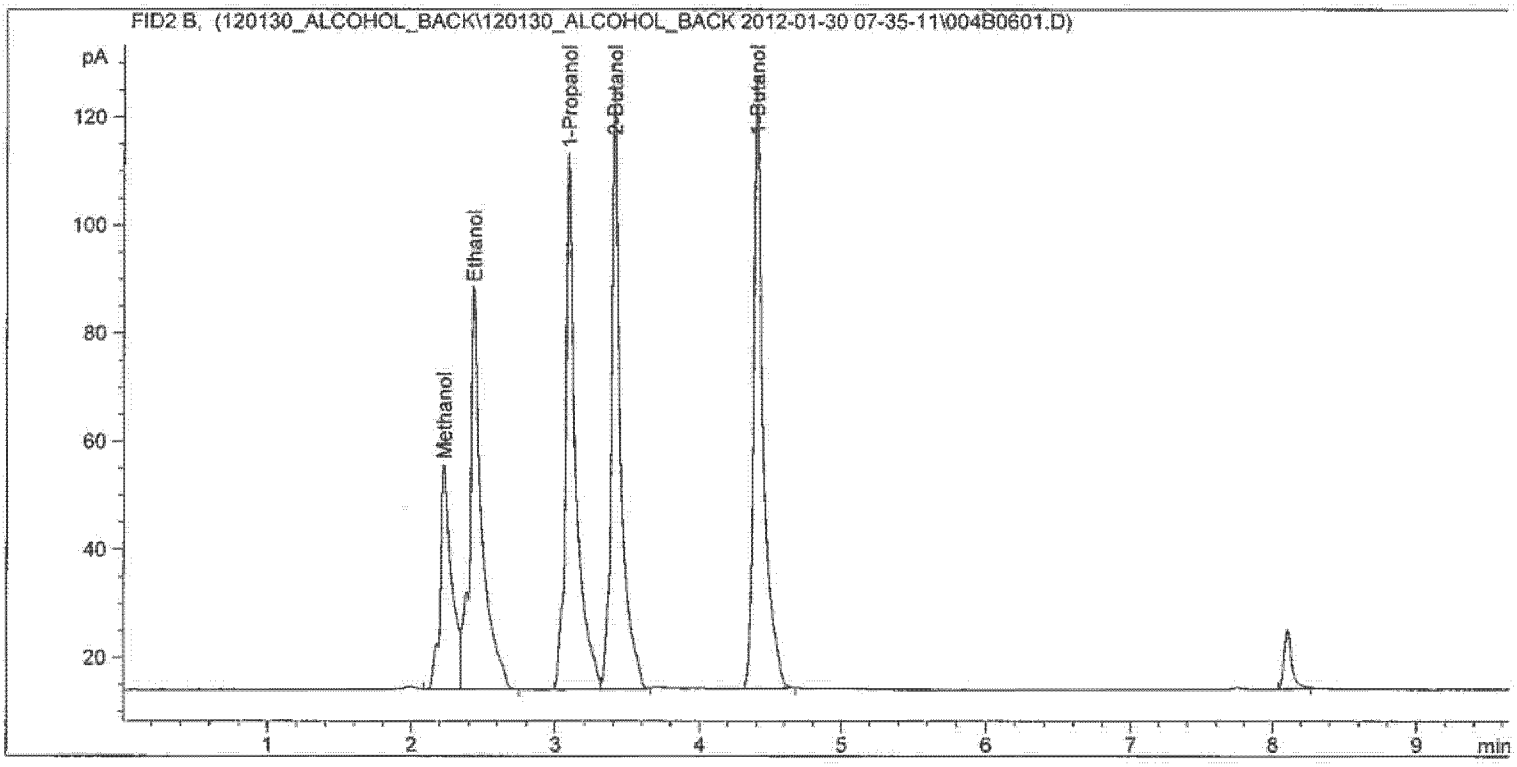
*** End of Report ***

Pass

Am

Data File C:\CHEM32\...130_ALCOHOL_BACK\120130_ALCOHOL_BACK 2012-01-30 07-35-11\004B0601.D
Sample Name: BA23001-BS1

Acq. Operator	: ACM	Seq. Line :	6
Acq. Instrument	: AG3-6890N	Location :	Vial 4
Injection Date	: 1/30/2012 8:46:43 AM	Inj :	1
		Inj Volume :	0.8 µl
Acq. Method	: C:\CHEM32\1\DATA\120130_ALCOHOL_BACK\120130_ALCOHOL_BACK 2012-01-30 07-35-11\ALCOHOLS_BACK.M		
Last changed	: 1/27/2012 3:30:25 PM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120127.M		
Last changed	: 1/31/2012 7:20:10 AM by ACM		
Method Info	: FID method for Alcohol analysis		



External Standard Report

Sorted By : Signal
Calib. Data Modified : 1/31/2012 7:19:29 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%Rec
2.227	VV	228.16130	4.02825e-1	91.90918		Methanol	91.9
2.435	VB	432.83630	2.20729e-1	95.53968		Ethanol	95.5
3.092	BV	490.46982	1.91913e-1	94.12734		1-Propanol	94.1
3.409	VB	493.83615	1.90824e-1	94.23577		2-Butanol	94.2
4.406	BB	532.37048	1.79900e-1	95.77334		1-Butanol	95.8

Pass

Totals : 471.58531

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

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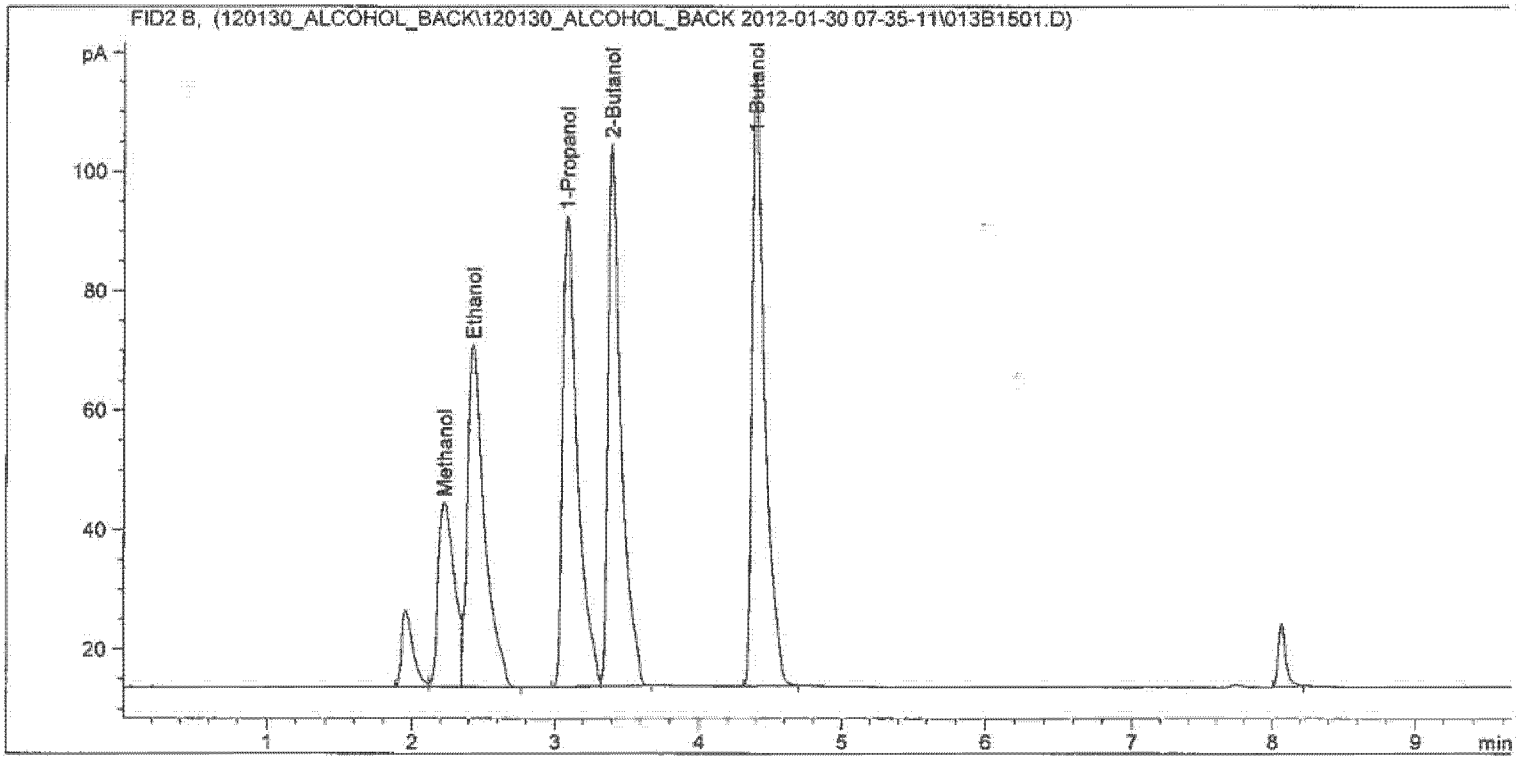
*** End of Report ***

Data File C:\CHEM32\...130_ALCOHOL_BACK\120130_ALCOHOL_BACK 2012-01-30 07-35-11\013B1501.D
Sample Name: BA23001-MS1

Acq. Operator	: ACM	Seq. Line	: 15
Acq. Instrument	: AG3-6890N	Location	: Vial 13
Injection Date	: 1/30/2012 10:50:10 AM	Inj	: 1
		Inj Volume	: 0.8 µl
Acq. Method	: C:\CHEM32\1\DATA\120130_ALCOHOL_BACK\120130_ALCOHOL_BACK 2012-01-30 07-35-11\ALCOHOLS_BACK.M		
Last changed	: 1/27/2012 3:30:25 PM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120127.M		
Last changed	: 1/31/2012 7:20:10 AM by ACM		
Method Info	: FID method for Alcohol analysis		



External Standard Report

Sorted By : Signal
Calib. Data Modified : 1/31/2012 7:19:29 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%Rec
2.227	VV	244.40694	4.02681e-1	98.41805		Methanol	98.4
2.429	VB	472.97797	2.21031e-1	104.54274		Ethanol	104.5
3.088	BV	564.33307	1.92059e-1	108.38503		1-Propanol	108.4
3.399	VB	572.13385	1.90884e-1	109.21091		2-Butanol	109.2
4.398	BB	628.44513	1.79880e-1	113.04452		1-Butanol	113.0

Pass

Totals : 533.60125

1 Warnings or Errors :

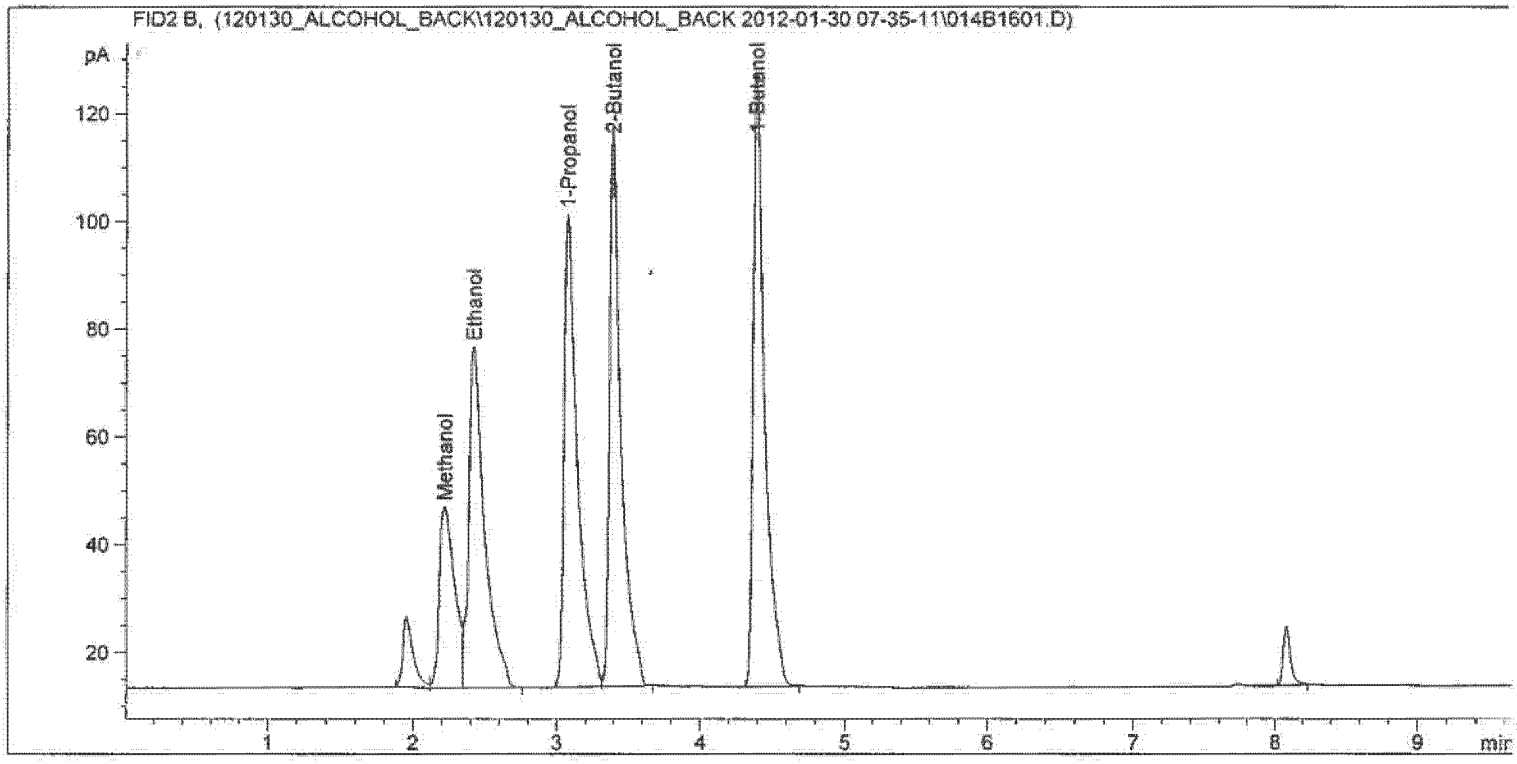
Warning : Calibration warnings (see calibration table listing)

==========

*** End of Report ***

Data File C:\CHEM32\...130_ALCOHOL_BACK\120130_ALCOHOL_BACK 2012-01-30 07-35-11\014B1601.D
Sample Name: BA23001-MSD1

Acq. Operator	: ACM	Seq. Line	: 16
Acq. Instrument	: AG3-6890N	Location	: Vial 14
Injection Date	: 1/30/2012 11:03:53 AM	Inj	: 1
		Inj Volume	: 0.8 µl
Acq. Method	: C:\CHEM32\1\DATA\120130_ALCOHOL_BACK\120130_ALCOHOL_BACK 2012-01-30 07-35-11\ALCOHOLS_BACK.M		
Last changed	: 1/27/2012 3:30:25 PM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120127.M		
Last changed	: 1/31/2012 7:20:10 AM by ACM		
Method Info	: FID method for Alcohol analysis		



External Standard Report

Sorted By : Signal
Calib. Data Modified : 1/31/2012 7:19:29 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Am

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%Rec
2.220	VV	248.10707	4.02651e-1	99.90052		Methanol	99.9
2.423	VB	480.53683	2.21082e-1	106.23806		Ethanol	106.2
3.080	BV	569.03302	1.92067e-1	109.29225		1-Propanol	109.3
3.396	VB	573.24420	1.90884e-1	109.42328		2-Butanol	109.4
4.395	BB	631.79413	1.79879e-1	113.64657		1-Butanol	113.6

Pass

Totals : 538.50067

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

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*** End of Report ***

$$RSD = \left[\frac{|R_1 - R_2|}{Avg(R_1, R_2)}\right] 100$$

$$MeOH = \left[\frac{99.9 - 98.4}{Avg(99.9, 98.4)}\right] 100 = \left[\frac{1.5}{99.15}\right] 100 = 1.51\% \quad ok$$

$$EtOH = \left[\frac{106.2 - 104.5}{Avg(106.2, 104.5)}\right] 100 = \left[\frac{1.7}{105.35}\right] 100 = 1.61\% \quad ok$$

$$1\text{-Propanol} = \left[\frac{109.3 - 108.4}{Avg(109.3, 108.4)}\right] 100 = \left[\frac{0.9}{108.85}\right] 100 = 0.827\% \quad ok$$

$$2\text{-Butanol} = \left[\frac{109.4 - 109.2}{Avg(109.4, 109.2)}\right] 100 = \left[\frac{0.2}{109.3}\right] 100 = 0.183\% \quad ok$$

$$1\text{-Butanol} = \left[\frac{113.6 - 113.0}{Avg(113.6, 113)}\right] = \left[\frac{0.6}{113.3}\right] 100 = 0.530\% \quad ok$$

pass all

Am

Data File C:\CHEM32\...131_ALCOHOL_BACK\120131_ALCOHOL_BACK 2012-01-31 17-07-09\001B0201.D
Sample Name: IBL1

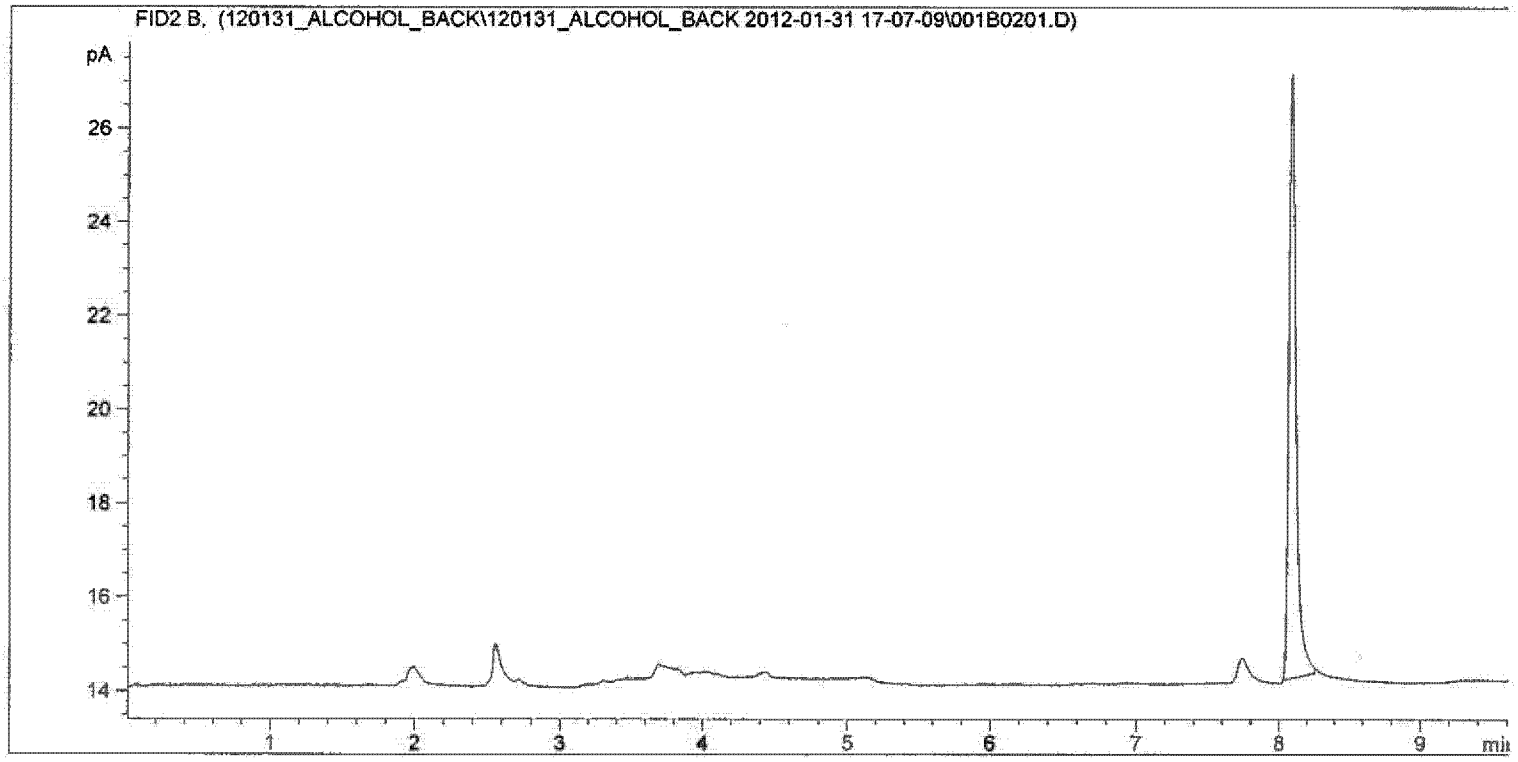
==========

Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 1/31/2012 5:23:45 PM

Seq. Line : 2
Location : Vial 1
Inj : 1
Inj Volume : 0.8 µl

Acq. Method : C:\CHEM32\1\DATA\120131_ALCOHOL_BACK\120131_ALCOHOL_BACK 2012-01-31 17-07-09\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120131.M
Last changed : 2/1/2012 7:43:33 AM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : water



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 2/1/2012 7:43:27 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Am

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.222		-	-	-		Methanol
2.430		-	-	-		Ethanol
3.087		-	-	-		1-Propanol

Data File C:\CHEM32\...131_ALCOHOL_BACK\120131_ALCOHOL_BACK 2012-01-31 17-07-09\001B0201.D
Sample Name: IBL1

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
3.405		-	-	-		2-Butanol
4.404		-	-	-		1-Butanol

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==========
==========
Area Percent Report
==========

Sorted By : Signal
Calib. Data Modified : 2/1/2012 7:43:27 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.222		0.0000	0.00000	0.00000	Methanol
2	2.430		0.0000	0.00000	0.00000	Ethanol
3	3.087		0.0000	0.00000	0.00000	1-Propanol
4	3.405		0.0000	0.00000	0.00000	2-Butanol
5	4.404		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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

Poss

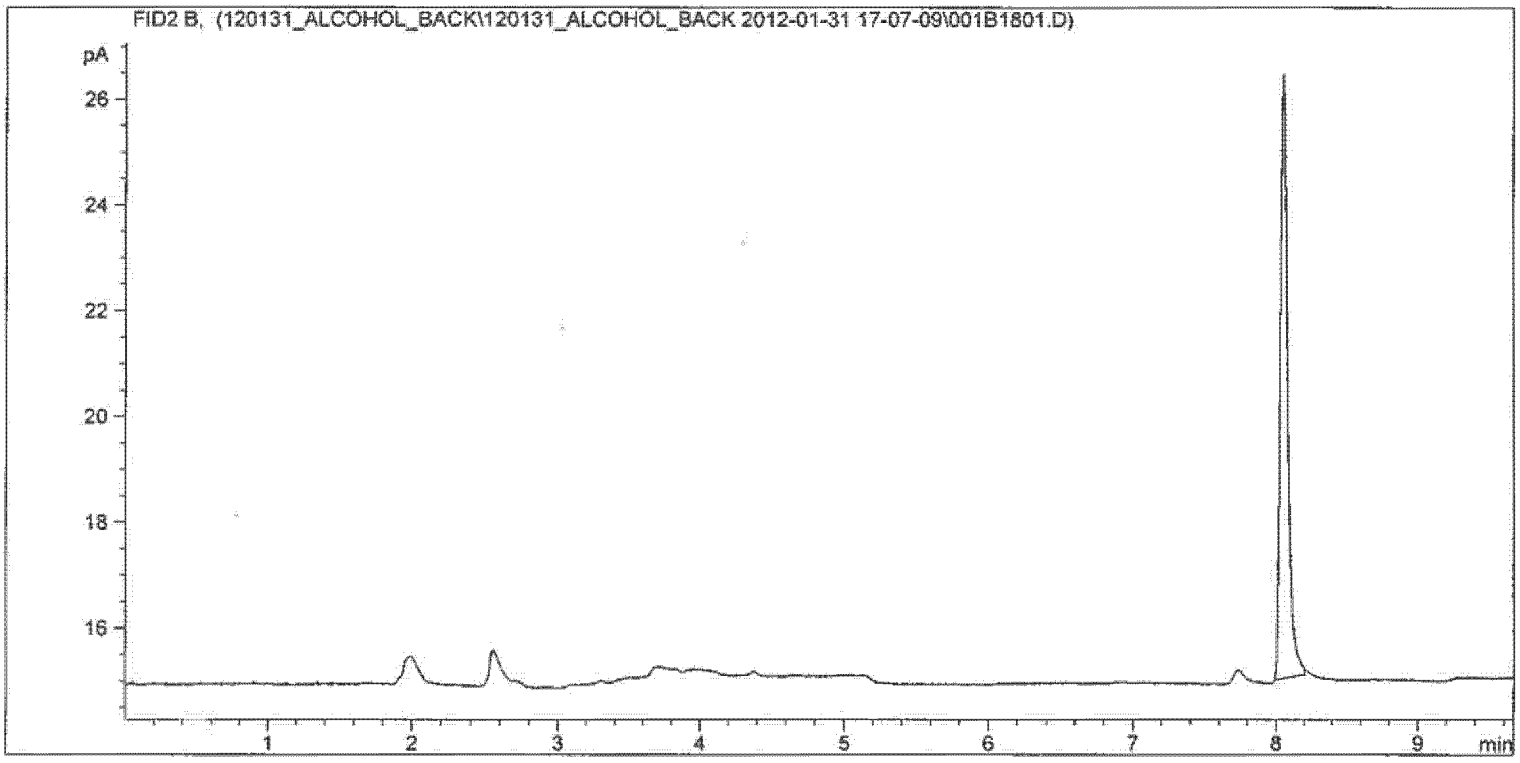
Am

Data File C:\CHEM32\...131_ALCOHOL_BACK\120131_ALCOHOL_BACK 2012-01-31 17-07-09\001B1801.D
Sample Name: IBL2

Acq. Operator	: ACM	Seq. Line :	18
Acq. Instrument	: AG3-6890N	Location :	Vial 1
Injection Date	: 1/31/2012 9:03:32 PM	Inj :	1
		Inj Volume :	0.8 µl

Acq. Method : C:\CHEM32\1\DATA\120131_ALCOHOL_BACK\120131_ALCOHOL_BACK 2012-01-31 17-07-09\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120131.M
Last changed : 2/1/2012 7:43:33 AM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : water



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/1/2012 7:43:27 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.222		-	-	-		Methanol
2.430		-	-	-		Ethanol
3.087		-	-	-		1-Propanol

Data File C:\CHEM32\...131_ALCOHOL_BACK\120131_ALCOHOL_BACK 2012-01-31 17-07-09\001B1801.D
Sample Name: IBL2

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
3.405		-	-	-		2-Butanol
4.404		-	-	-		1-Butanol

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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==========
Area Percent Report
==========

Sorted By : Signal
Calib. Data Modified : 2/1/2012 7:43:27 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.222		0.0000	0.00000	0.00000	Methanol
2	2.430		0.0000	0.00000	0.00000	Ethanol
3	3.087		0.0000	0.00000	0.00000	1-Propanol
4	3.405		0.0000	0.00000	0.00000	2-Butanol
5	4.404		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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

Pass

Data File C:\CHEM32\...131_ALCOHOL_BACK\120131_ALCOHOL_BACK 2012-01-31 17-07-09\002B0301.D
Sample Name: CCV1

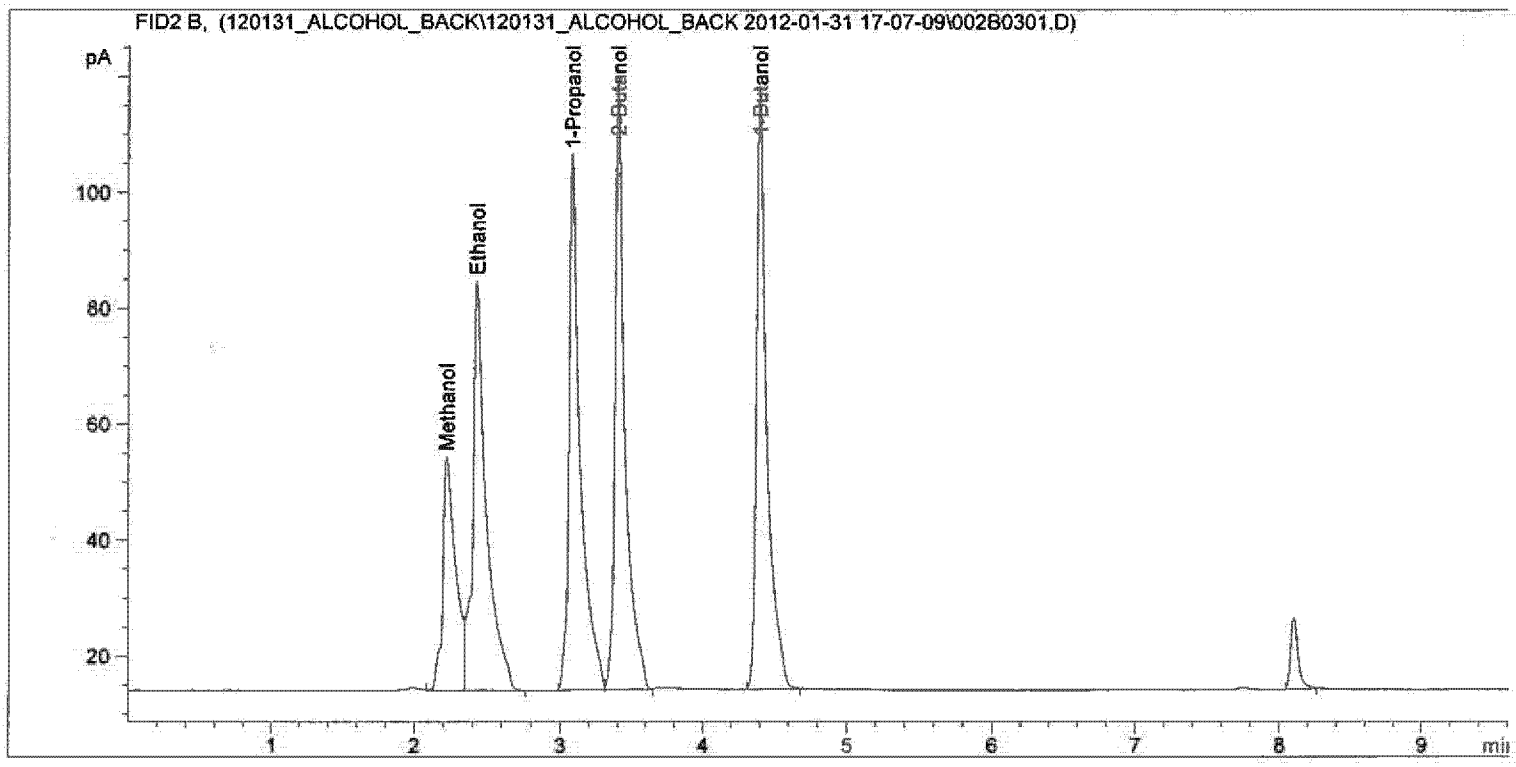
==========

Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 1/31/2012 5:37:29 PM

Seq. Line : 3
Location : Vial 2
Inj : 1
Inj Volume : 0.8 µl

Acq. Method : C:\CHEM32\1\DATA\120131_ALCOHOL_BACK\120131_ALCOHOL_BACK 2012-01-31 17-07-09\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120131.M
Last changed : 2/1/2012 7:43:33 AM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : ALCal4-111122-ACM



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 2/1/2012 7:43:27 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%D
2.222	VV	246.17923	4.02666e-1	99.12812		Methanol	0.872
2.430	VB	456.06369	2.20910e-1	100.74917		Ethanol	0.749
3.087	BV	504.38428	1.91943e-1	96.81322		1-Propanol	3.19

AG3-6890N 2/1/2012 7:43:49 AM ACM

Data File C:\CHEM32\...131_ALCOHOL_BACK\120131_ALCOHOL_BACK 2012-01-31 17-07-09\002B0301.D
Sample Name: CCV1

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%D
3.405	VV	505.83014	1.90834e-1	96.52973		2-Butanol	3.47
4.404	BB	517.97174	1.79903e-1	93.18490		1-Butanol	6.82

Totals : 486.40514

*** End of Report ***

Pass

Z

Am

Data File C:\CHEM32\...131_ALCOHOL_BACK\120131_ALCOHOL_BACK 2012-01-31 17-07-09\002B1901.D
Sample Name: CCV2

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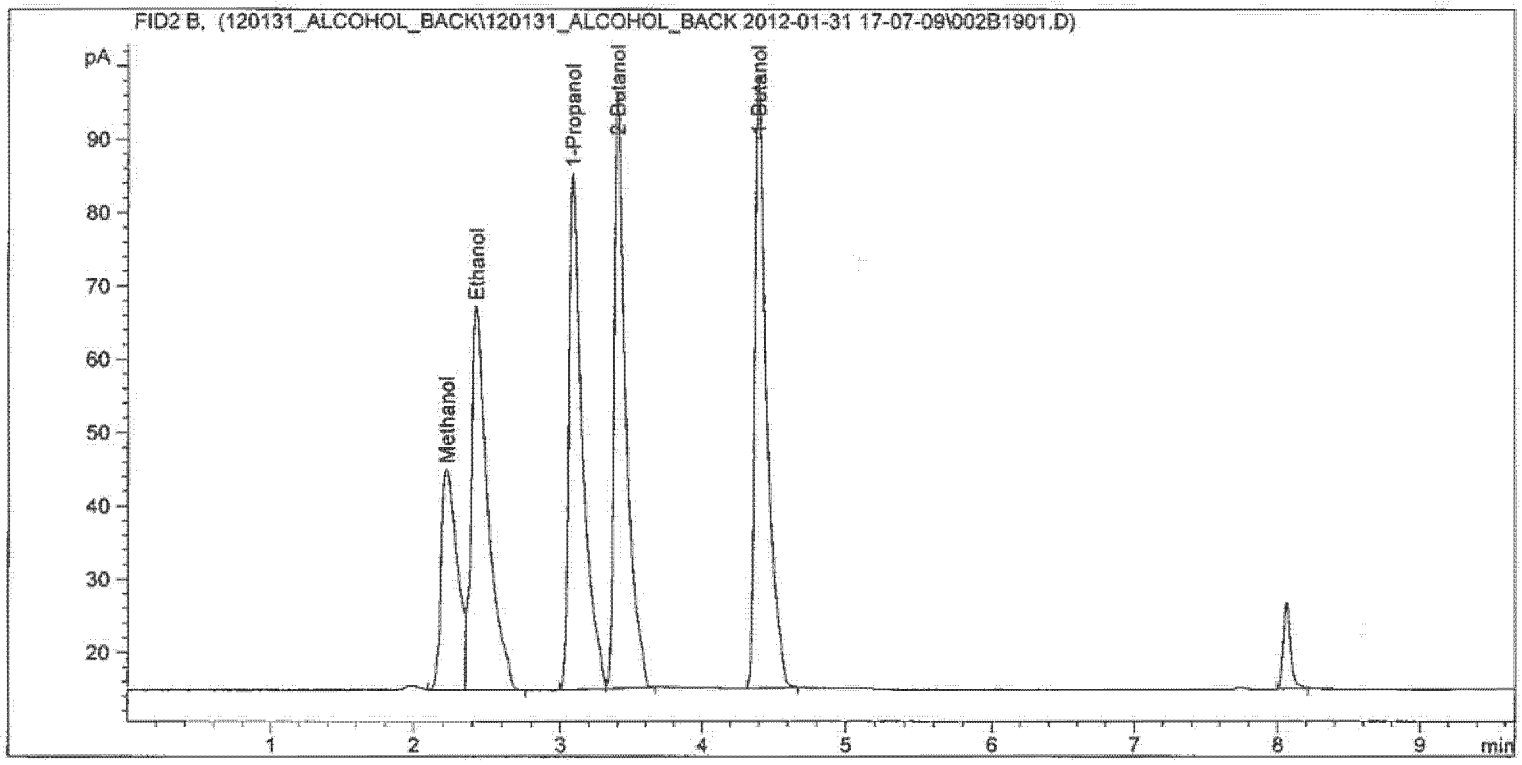
Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 1/31/2012 9:17:17 PM

Seq. Line : 19
Location : Vial 2
Inj : 1
Inj Volume : 0.8 µl

Acq. Method : C:\CHEM32\1\DATA\120131_ALCOHOL_BACK\120131_ALCOHOL_BACK 2012-01-31 17-07-09\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120131.M
Last changed : 2/1/2012 7:43:33 AM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : ALCal4-111122-ACM



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 2/1/2012 7:43:27 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

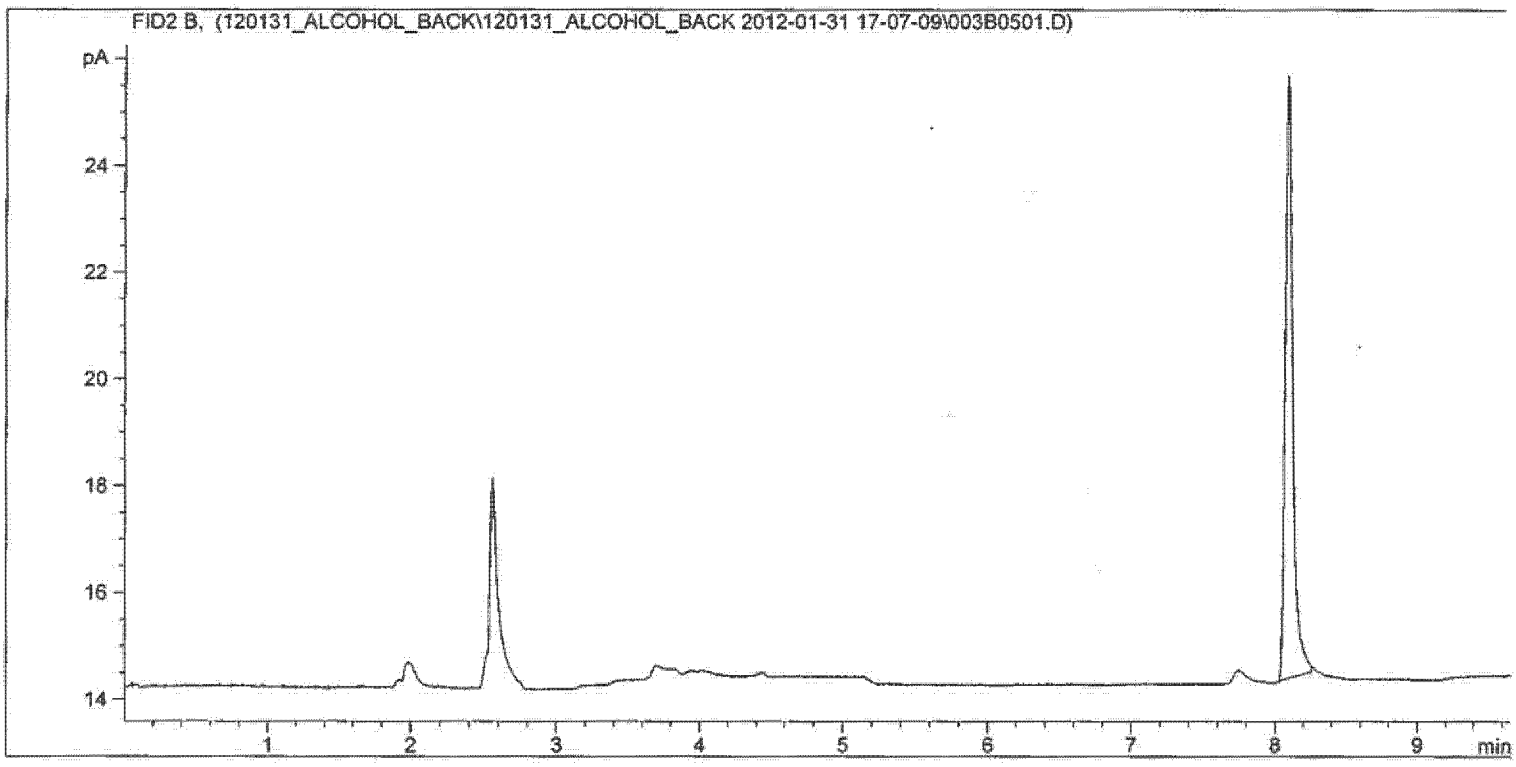
Am

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%D
2.225	VV	230.50562	4.02803e-1	92.84843		Methanol	7.15
2.427	VB	414.37943	2.20571e-1	91.40013		Ethanol	8.60
3.086	BV	467.04767	1.91857e-1	89.60621		1-Propanol	10.4

Data File C:\CHEM32\...131_ALCOHOL_BACK\120131_ALCOHOL_BACK 2012-01-31 17-07-09\003B0501.D
Sample Name: BA23103-BLK1

Acq. Operator	: ACM	Seq. Line :	5
Acq. Instrument	: AG3-6890N	Location :	Vial 3
Injection Date	: 1/31/2012 6:05:00 PM	Inj :	1
		Inj Volume :	0.8 µl
Acq. Method	: C:\CHEM32\1\DATA\120131_ALCOHOL_BACK\120131_ALCOHOL_BACK 2012-01-31 17-07-09\ALCOHOLS_BACK.M		
Last changed	: 1/27/2012 3:30:25 PM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120131.M		
Last changed	: 2/1/2012 7:43:33 AM by ACM		
Method Info	: FID method for Alcohol analysis		

Sample Info : water



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/1/2012 7:43:27 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.222		-	-	-		Methanol
2.430		-	-	-		Ethanol
3.087		-	-	-		1-Propanol

Data File C:\CHEM32\...131_ALCOHOL_BACK\120131_ALCOHOL_BACK 2012-01-31 17-07-09\002B1901.D
Sample Name: CCV2

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%D
3.399	VB	471.47543	1.90803e-1	89.95908		2-Butanol	10.0
4.398	BB	482.25134	1.79913e-1	86.76350		1-Butanol	13.2

Totals : 450.57736

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*** End of Report ***

pass

Data File C:\CHEM32\...131_ALCOHOL_BACK\120131_ALCOHOL_BACK 2012-01-31 17-07-09\003B0501.D
Sample Name: BA23103-BLK1

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
3.405		-	-	-		2-Butanol
4.404		-	-	-		1-Butanol

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 2/1/2012 7:43:27 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.222		0.0000	0.00000	0.00000	Methanol
2	2.430		0.0000	0.00000	0.00000	Ethanol
3	3.087		0.0000	0.00000	0.00000	1-Propanol
4	3.405		0.0000	0.00000	0.00000	2-Butanol
5	4.404		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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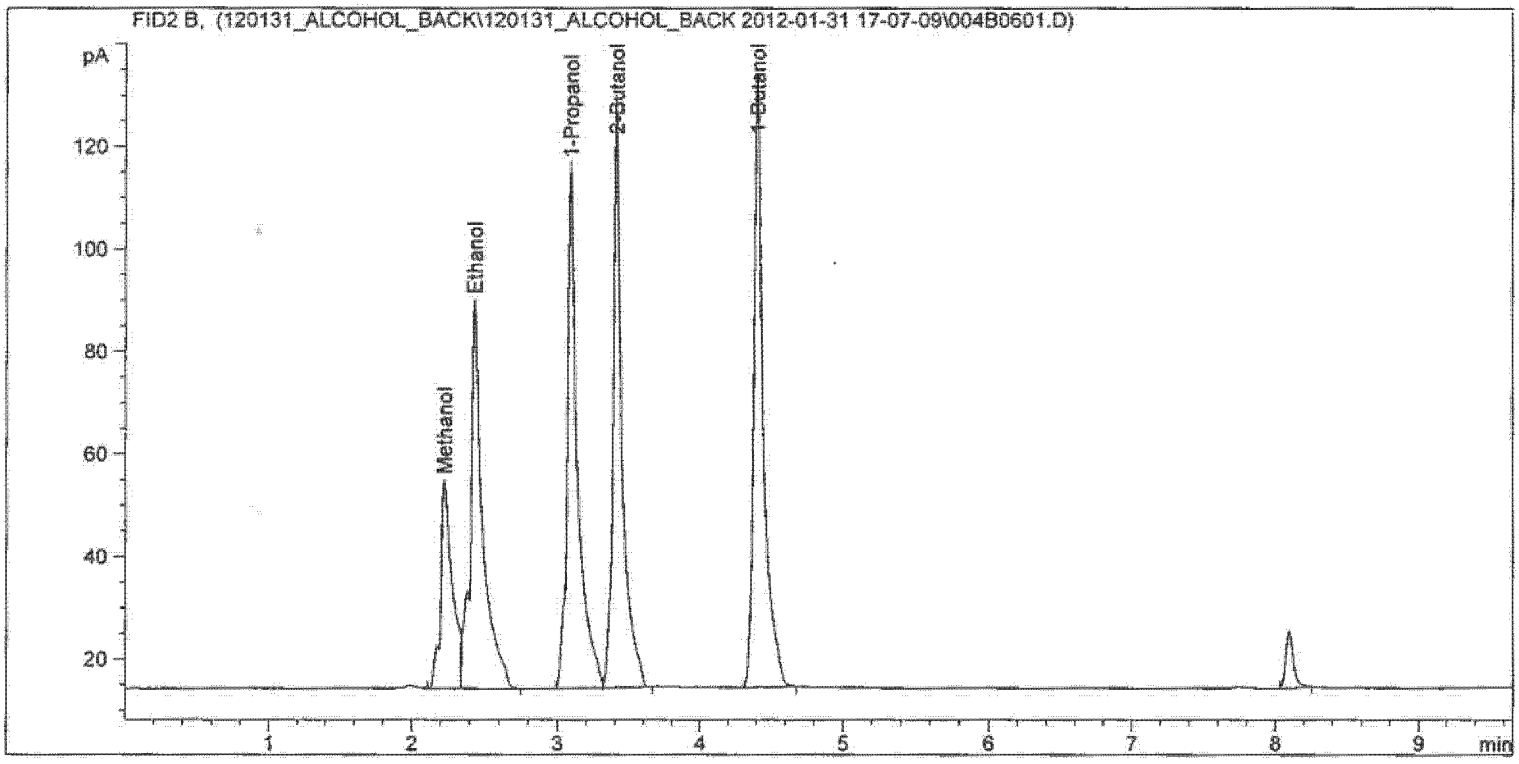
*** End of Report ***

pass

Am

Data File C:\CHEM32\...131_ALCOHOL_BACK\120131_ALCOHOL_BACK 2012-01-31 17-07-09\004B0601.D
Sample Name: BA23103-BS1

Acq. Operator	: ACM	Seq. Line	: 6
Acq. Instrument	: AG3-6890N	Location	: Vial 4
Injection Date	: 1/31/2012 6:18:45 PM	Inj	: 1
		Inj Volume	: 0.8 µl
Acq. Method	: C:\CHEM32\1\DATA\120131_ALCOHOL_BACK\120131_ALCOHOL_BACK 2012-01-31 17-07-09\ALCOHOLS_BACK.M		
Last changed	: 1/27/2012 3:30:25 PM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120131.M		
Last changed	: 2/1/2012 7:43:33 AM by ACM		
Method Info	: FID method for Alcohol analysis		



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/1/2012 7:43:27 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%Rec
2.225	VV	227.08232	4.02836e-1	91.47688		Methanol	91.5
2.433	VB	441.48578	2.20799e-1	97.47960		Ethanol	97.5
3.090	BV	507.97763	1.91951e-1	97.50684		1-Propanol	97.5
3.407	VB	504.88931	1.90833e-1	96.34979		2-Butanol	96.3
4.405	BB	558.02185	1.79894e-1	100.38464		1-Butanol	100.4

Pass

Totals : 483.19776

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*** End of Report ***

Am

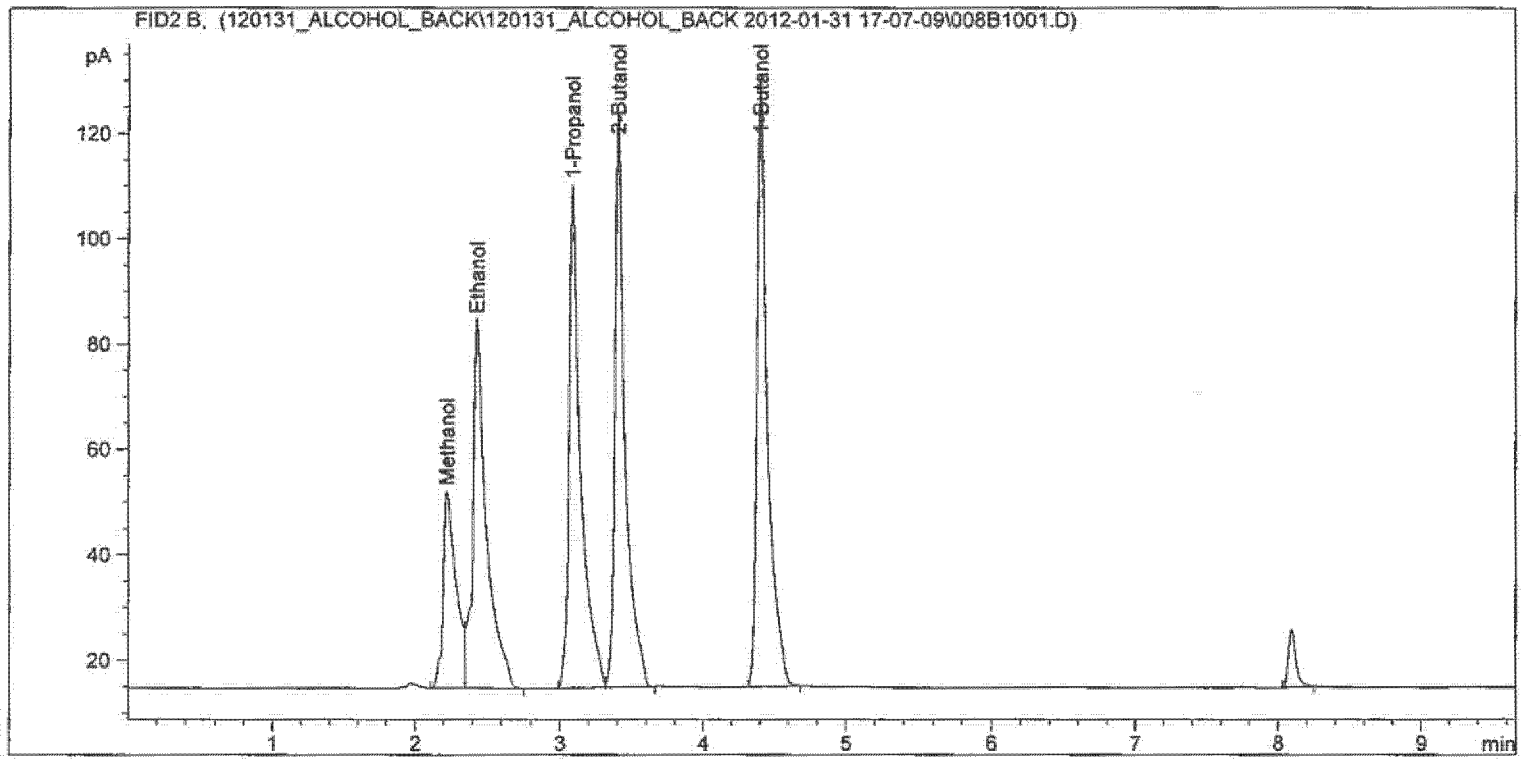
Data File C:\CHEM32\...131_ALCOHOL_BACK\120131_ALCOHOL_BACK 2012-01-31 17-07-09\008B1001.D
Sample Name: BA23103-MS1

==========

Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 1/31/2012 7:13:41 PM

Seq. Line : 10
Location : Vial 8
Inj : 1
Inj Volume : 0.8 µl

Acq. Method : C:\CHEM32\1\DATA\120131_ALCOHOL_BACK\120131_ALCOHOL_BACK 2012-01-31 17-07-09\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120131.M
Last changed : 2/1/2012 7:43:33 AM by ACM
Method Info : FID method for Alcohol analysis



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 2/1/2012 7:43:27 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

AM

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%Rec
2.223	VV	233.55138	4.02775e-1	94.06873		Methanol	94.1
2.430	VB	456.45218	2.20913e-1	100.83630		Ethanol	100.8
3.088	BV	530.72101	1.91997e-1	101.89695		1-Propanol	101.9
3.405	VB	529.72021	1.90853e-1	101.09892		2-Butanol	101.1
4.403	BB	586.22620	1.79888e-1	105.45489		1-Butanol	105.5

P.S.J

Totals : 503.35580

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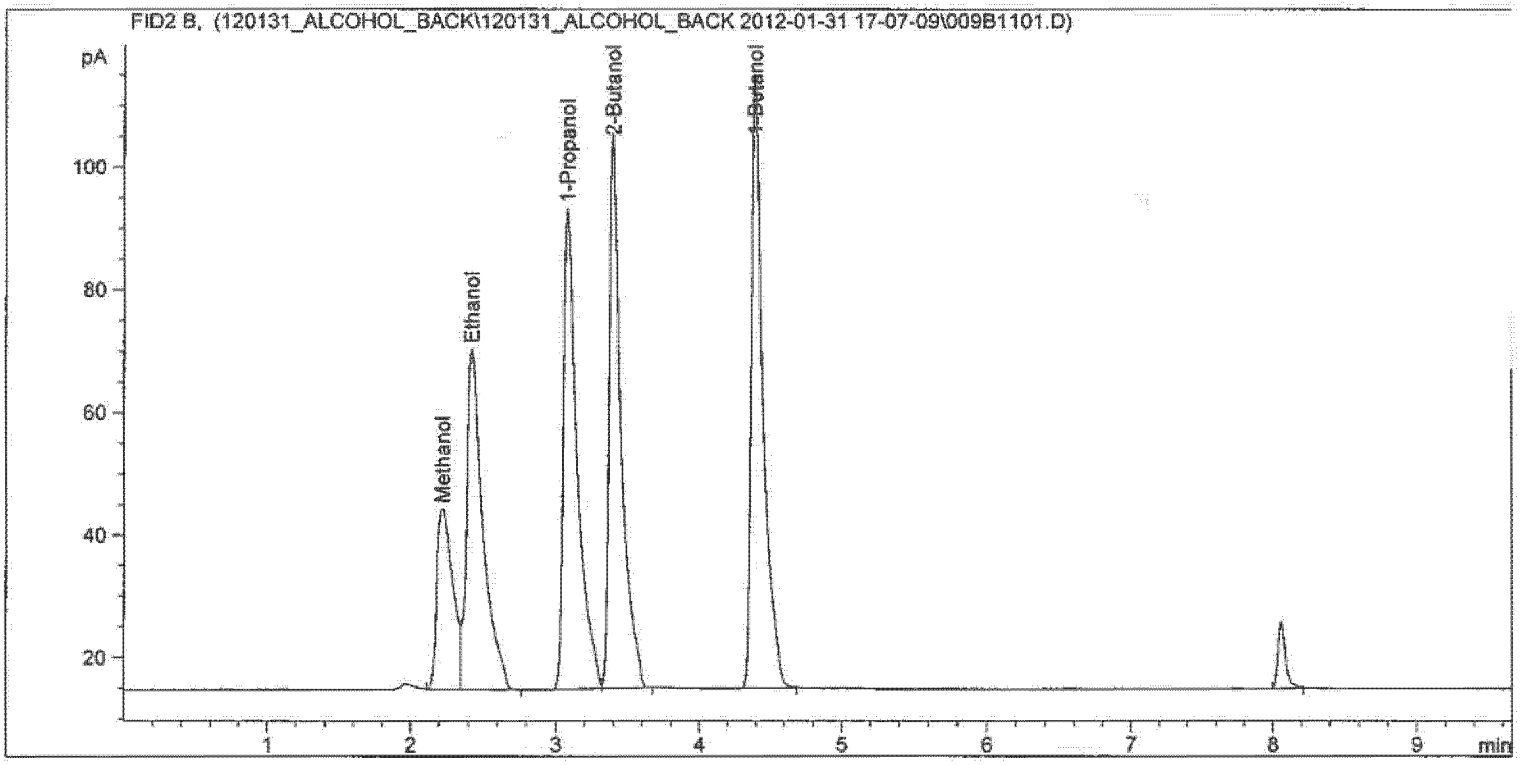
*** End of Report ***

Aem

Data File C:\CHEM32\...131_ALCOHOL_BACK\120131_ALCOHOL_BACK 2012-01-31 17-07-09\009B1101.D
Sample Name: BA23103-MSD1

==========

Acq. Operator : ACM
Seq. Line : 11
Acq. Instrument : AG3-6890N
Location : Vial 9
Injection Date : 1/31/2012 7:27:26 PM
Inj : 1
Inj Volume : 0.8 µl
Acq. Method : C:\CHEM32\1\DATA\120131_ALCOHOL_BACK\120131_ALCOHOL_BACK 2012-01-31 17-07-09\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120131.M
Last changed : 2/1/2012 7:43:33 AM by ACM
Method Info : FID method for Alcohol analysis



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 2/1/2012 7:43:27 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Acm

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%Rec
2.223	VV	225.44823	4.02852e-1	90.82217		Methanol	90.8
2.424	VB	436.87488	2.20762e-1	96.44546		Ethanol	96.4
3.082	BV	517.34473	1.91971e-1	99.31495		1-Propanol	99.3
3.396	VB	522.76093	1.90848e-1	99.76790		2-Butanol	99.8
4.394	BB	575.83826	1.79890e-1	103.58747		1-Butanol	103.6

Pass

Totals : 489.93795

*** End of Report ***

$$RSD = \left[\frac{|R_1 - R_2|}{Avg(R_1, R_2)}\right] 100$$

$$MeOH = \left[\frac{|94.1 - 90.8|}{Avg(94.1, 90.8)}\right] 100 = \left[\frac{3.3}{92.45}\right] 100 = 3.57\%$$

$$EtOH = \left[\frac{|100.8 - 96.4|}{Avg(100.8, 96.4)}\right] 100 = \left[\frac{4.4}{98.6}\right] 100 = 4.46\%$$

$$1\text{-Propanol} = \left[\frac{|101.9 - 99.3|}{Avg(101.9, 99.3)}\right] 100 = \left[\frac{2.6}{100.6}\right] 100 = 2.58\%$$

$$2\text{-Butanol} = \left[\frac{|101.1 - 99.8|}{Avg(101.1, 99.8)}\right] 100 = \left[\frac{1.3}{100.45}\right] 100 = 1.29\%$$

$$1\text{-Butanol} = \left[\frac{105.5 - 103.6}{Avg(105.5, 103.6)}\right] 100 = \left[\frac{1.9}{104.55}\right] 100 = 1.82\%$$

Pass all

Case File Contents

Alcohols

Alcohols by EPA 8015D

WO 1201013

Dimock Residential Groundwater

DAS R33907

Log Book Copies, Run Logs

Maestro Sequence Table 1 - 120127_ALCOHOL_BACK.S

Syringe: 10ul — Current MPS Syringe: 10ul

Injector: Front (Front) / Back (Rear)

Cut | Copy | Paste | Insert | Append | Delete | Import | All | Settings

Use PrepAhead

	Sample Name	Method	Tray	Vial	Volume	Sample Info	Filename	Type	Cal Level	Update RF	Update RT	Interval	Amount
1	H2O	ALCOHOLS_BACK.M	Tray1,VT98	1	0.8	water		Sample					
2	IBL1	ALCOHOLS_BACK.M	Tray1,VT98	1	0.8	water		Sample					
3	Cal 1	ALCOHOLS_BACK.M	Tray1,VT98	2	0.8	ALCal1-111122-ACM		Calibration	1		No Update		
4	Cal 2	ALCOHOLS_BACK.M	Tray1,VT98	3	0.8	ALCal2-111122-ACM		Calibration	2	No Update	No Update		
5	Cal 3	ALCOHOLS_BACK.M	Tray1,VT98	4	0.8	ALCal3-111122-ACM		Calibration	3	No Update	No Update		
6	Cal 4	ALCOHOLS_BACK.M	Tray1,VT98	5	0.8	ALCal4-111122-ACM		Calibration	4	No Update	No Update		
7	Cal 5	ALCOHOLS_BACK.M	Tray1,VT98	6	0.8	ALCal5-111122-ACM		Calibration	5	No Update	No Update		
8	Cal 6	ALCOHOLS_BACK.M	Tray1,VT98	7	0.8	ALCal6-111122-ACM		Calibration	6	No Update	No Update		
9	H2O	ALCOHOLS_BACK.M	Tray1,VT98	1	0.8	water		Sample					
10	IBL2	ALCOHOLS_BACK.M	Tray1,VT98	1	0.8	water		Sample					
11	SCV	ALCOHOLS_BACK.M	Tray1,VT98	8	0.8	ALSCV-111122-ACM		Sample					
12	H2O	ALCOHOLS_BACK.M	Tray1,VT98	1	0.8	water		Sample					
13	BA22701-BLK1	ALCOHOLS_BACK.M	Tray1,VT98	1	0.8	water		Sample					
14	BA22701-BS1	ALCOHOLS_BACK.M	Tray1,VT98	9	0.8			Sample					
15	1201013-01	ALCOHOLS_BACK.M	Tray1,VT98	10	0.8			Sample					
16	1201013-03	ALCOHOLS_BACK.M	Tray1,VT98	11	0.8			Sample					
17	BA22701-MS1	ALCOHOLS_BACK.M	Tray1,VT98	12	0.8			Sample					
18	BA22701-MSD	ALCOHOLS_BACK.M	Tray1,VT98	13	0.8			Sample					
19	1201013-05	ALCOHOLS_BACK.M	Tray1,VT98	14	0.8			Sample					
20	H2O	ALCOHOLS_BACK.M	Tray1,VT98	1	0.8	water		Sample					
21	IBL3	ALCOHOLS_BACK.M	Tray1,VT98	1	0.8	water		Sample					
22	CCV1	ALCOHOLS_BACK.M	Tray1,VT98	5	0.8	ALCalH-111122-ACM		Sample					
23	H2O	ALCOHOLS_BACK.M	Tray1,VT98	1	0.8	water		Sample					
24	MeOH 100ppm	ALCOHOLS_BACK.M	Tray1,VT98	96	0.8	RT chk							
25	EtOH 100ppm	ALCOHOLS_BACK.M	Tray1,VT98	97	0.8	RT chk							
26	1-Propanol 100pp	ALCOHOLS_BACK.M	Tray1,VT98	98	0.8	RT chk							
27	H2O	ALCOHOLS_BACK.M	Tray1,VT98	1	0.8								

Vial 1: IBL1

GERSTEL — Repeat 4 times — Increment Vial/Data File — Increment Sample Name — OK — Cancel — Help

Modified — Injector: Rear — Vial 1 - H2O

Start — untitled - Paint — AG3-6890N (online): Met... — AG3-6890N (offline): Dat... — Minesweeper — Maestro Sequence Ta... — 12:06 PM

DIM0213954 DIM0214226

Maestro Sequence Table 1 - 1_0126_ALCOHOL_FRONT.S

Syringe: 10ul
Current MPS Syringe: 10ul

Injector: Front (Front) / Back (Rear)

Cut | Copy | Paste | Insert | Append | Delete | Import | All | Settings

Use PrepAhead

	Sample Name	Method	Tray	Vial	Volume	Sample Info	Filename	Type	Cal Level	Update RF	Update RT	Interval	Amount
1	H2O	ALCOHOLS_FRONT.M	Tray1,VT98	1	1.0	water		Sample					
2	IBL1	ALCOHOLS_FRONT.M	Tray1,VT98	1	1.0	water		Sample					
3	Cal 1	ALCOHOLS_FRONT.M	Tray1,VT98	2	1.0	ALCal1-111122-ACM		Calibration	1	No Update	No Update		
4	Cal 2	ALCOHOLS_FRONT.M	Tray1,VT98	3	1.0	ALCal2-111122-ACM		Calibration	2		Update		
5	Cal 3	ALCOHOLS_FRONT.M	Tray1,VT98	4	1.0	ALCal3-111122-ACM		Calibration	3	No Update	No Update		
6	Cal 4	ALCOHOLS_FRONT.M	Tray1,VT98	5	1.0	ALCal4-111122-ACM		Calibration	4	No Update	No Update		
7	Cal 5	ALCOHOLS_FRONT.M	Tray1,VT98	6	1.0	ALCal5-111122-ACM		Calibration	5	No Update	No Update		
8	Cal 6	ALCOHOLS_FRONT.M	Tray1,VT98	7	1.0	ALCal6-111122-ACM		Calibration	6	No Update	No Update		
9	H2O	ALCOHOLS_FRONT.M	Tray1,VT98	1	1.0	water		Sample					
10	IBL2	ALCOHOLS_FRONT.M	Tray1,VT98	1	1.0	water		Sample					
11	SCV	ALCOHOLS_FRONT.M	Tray1,VT98	8	1.0	ALSCV-111122-ACM		Sample					
12	H2O	ALCOHOLS_FRONT.M	Tray1,VT98	1	1.0	water		Sample					
13	BA22701-BLK1	ALCOHOLS_FRONT.M	Tray1,VT98	1	1.0	water		Sample					
14	BA22701-BS1	ALCOHOLS_FRONT.M	Tray1,VT98	9	1.0			Sample					
15	1201013-01	ALCOHOLS_FRONT.M	Tray1,VT98	10	1.0			Sample					
16	1201013-03	ALCOHOLS_FRONT.M	Tray1,VT98	11	1.0			Sample					
17	BA22701-MS1	ALCOHOLS_FRONT.M	Tray1,VT98	12	1.0			Sample					
18	BA22701-MSD	ALCOHOLS_FRONT.M	Tray1,VT98	13	1.0			Sample					
19	1201013-05	ALCOHOLS_FRONT.M	Tray1,VT98	14	1.0			Sample					
20	H2O	ALCOHOLS_FRONT.M	Tray1,VT98	1	1.0	water		Sample					
21	IBL3	ALCOHOLS_FRONT.M	Tray1,VT98	1	1.0	water		Sample					
22	CCV1	ALCOHOLS_FRONT.M	Tray1,VT98	5	1.0	ALCal4-111122-ACM		Sample					
23	H2O	ALCOHOLS_FRONT.M	Tray1,VT98	1	1.0	water		Sample					

Vial 2: Cal 1

GERSTEL

Repeat 1 times | Increment Vial/Data File | Increment Sample Name

OK | Cancel | Help

Modified | Injector: Front | Vial 5 - CCV1

Start | untitled - Paint | AG3-6890N (online): Met... | AG3-6890N (offline): Dat... | Maestro Sequence Ta... | 8:43 AM

DIM0213954

DIM0214228

Maestro Sequence Table 1 - 120130_ALCOHOL_FRONT.S

Syringe: 10ul
Current MPS Syringe: 10ul

Injector: Front (Front) / Back (Rear)

Cut Copy Paste Insert Append Delete Import All Settings

Use PrepAhead

	Sample Name	Method	Tray	Vial	Volume	Sample Info	Filename	Type	Cal Level	Update RF	Update RT	Interval	Amount
1	H2O	ALCOHOLS_FRONT.M	Tray1,VT98	1	1.0	water		Sample					
2	IBL1	ALCOHOLS_FRONT.M	Tray1,VT98	1	1.0	water		Sample					
3	CCV1	ALCOHOLS_FRONT.M	Tray1,VT98	2	1.0	ALCoH-111122-ACM		Sample					
4	H2O	ALCOHOLS_FRONT.M	Tray1,VT98	1	1.0	water		Sample					
5	BA23001-BLK1	ALCOHOLS_FRONT.M	Tray1,VT98	3	1.0	water		Sample					
6	BA23001-BS1	ALCOHOLS_FRONT.M	Tray1,VT98	4	1.0			Sample					
7	1201013-07	ALCOHOLS_FRONT.M	Tray1,VT98	5	1.0			Sample					
8	1201013-09	ALCOHOLS_FRONT.M	Tray1,VT98	6	1.0			Sample					
9	1201013-12	ALCOHOLS_FRONT.M	Tray1,VT98	7	1.0			Sample					
10	1201013-13	ALCOHOLS_FRONT.M	Tray1,VT98	8	1.0			Sample					
11	1201013-14	ALCOHOLS_FRONT.M	Tray1,VT98	9	1.0			Sample					
12	1201013-15	ALCOHOLS_FRONT.M	Tray1,VT98	10	1.0			Sample					
13	1201013-16	ALCOHOLS_FRONT.M	Tray1,VT98	11	1.0			Sample					
14	1201013-17	ALCOHOLS_FRONT.M	Tray1,VT98	12	1.0			Sample					
15	BA23001-MS1	ALCOHOLS_FRONT.M	Tray1,VT98	13	1.0			Sample					
16	BA23001-MSD1	ALCOHOLS_FRONT.M	Tray1,VT98	14	1.0			Sample					
17	1201013-28	ALCOHOLS_FRONT.M	Tray1,VT98	15	1.0			Sample					
18	H2O	ALCOHOLS_FRONT.M	Tray1,VT98	1	1.0			Sample					
19	IBL2	ALCOHOLS_FRONT.M	Tray1,VT98	1	1.0	water		Sample					
20	CCV2	ALCOHOLS_FRONT.M	Tray1,VT98	2	1.0	ALCoH-111122-ACM		Sample					
21	H2O	ALCOHOLS_FRONT.M	Tray1,VT98	1	1.0	water		Sample					

Vial 1: IBL1

GERSTEL

Repeat 2 times Increment Vial/Data File Increment Sample Name

OK Cancel Help

Injector: Front Vial 1 - H2O

Start | untitled - Paint | AG3-6890N (online): Mai... | AG3-6890N (offline): Dat... | Minesweeper | C:\Chem32\1\DATA\120... | Maestro Sequence Ta... | 8:11 AM

DIM0213954 DIM0214230

Maestro Sequence Table 1 - 120130_ALCOHOL_BACK.S

Syringe: 10ul
Current MPS Syringe: 10ul

Injector: Front (Front) / Back (Rear)

Cut Copy Paste Insert Append Delete Import All Settings

Use PrepAhead

	Sample Name	Method	Tray	Vial	Volume	Sample Info	Filename	Type	Cal Level	Update RF	Update RT	Interval	Amount
1	H2O	ALCOHOLS_BACK.M	Tray1,VT98	1	0.8	water		Sample					
2	IBL1	ALCOHOLS_BACK.M	Tray1,VT98	1	0.8	water		Sample					
3	CCV1	ALCOHOLS_BACK.M	Tray1,VT98	2	0.8	ALCal4-111122-ACM		Sample					
4	H2O	ALCOHOLS_BACK.M	Tray1,VT98	1	0.8	water		Sample					
5	BA23001-BLK1	ALCOHOLS_BACK.M	Tray1,VT98	3	0.8	water		Sample					
6	BA23001-BS1	ALCOHOLS_BACK.M	Tray1,VT98	4	0.8			Sample					
7	1201013-07	ALCOHOLS_BACK.M	Tray1,VT98	5	0.8			Sample					
8	1201013-09	ALCOHOLS_BACK.M	Tray1,VT98	6	0.8			Sample					
9	1201013-12	ALCOHOLS_BACK.M	Tray1,VT98	7	0.8			Sample					
10	1201013-13	ALCOHOLS_BACK.M	Tray1,VT98	8	0.8			Sample					
11	1201013-14	ALCOHOLS_BACK.M	Tray1,VT98	9	0.8			Sample					
12	1201013-15	ALCOHOLS_BACK.M	Tray1,VT98	10	0.8			Sample					
13	1201013-16	ALCOHOLS_BACK.M	Tray1,VT98	11	0.8			Sample					
14	1201013-17	ALCOHOLS_BACK.M	Tray1,VT98	12	0.8			Sample					
15	BA23001-MS1	ALCOHOLS_BACK.M	Tray1,VT98	13	0.8			Sample					
16	BA23001-MSD1	ALCOHOLS_BACK.M	Tray1,VT98	14	0.8			Sample					
17	1201013-20	ALCOHOLS_BACK.M	Tray1,VT98	15	0.8			Sample					
18	H2O	ALCOHOLS_BACK.M	Tray1,VT98	1	0.8			Sample					
19	IBL2	ALCOHOLS_BACK.M	Tray1,VT98	1	0.8	water		Sample					
20	CCV2	ALCOHOLS_BACK.M	Tray1,VT98	2	0.8	ALCal4-111122-ACM		Sample					
21	H2O	ALCOHOLS_BACK.M	Tray1,VT98	1	0.8	water		Sample					

Vial 1: IBL1

GERSTEL Repeat 2 times Increment Vial/Data File Increment Sample Name OK Cancel Help

Injector: Rear Vial 1 - H2O

Start untitled - Paint AG3-6890N (online): Met... AG3-6890N (offline): Dat... Minesweeper Maestro Sequence Ta... 7:34 AM

DIM0213954 DIM0214232

Maestro Sequence Table 1 - 120131_ALCOHOL_FRONT.S

Syringe: 10ul — Current MPS Syringe: 10ul

Injector: Front (Front) / Back (Rear)

Cut | Copy | Paste | Insert | Append | Delete | Import | All | Settings

Use Prep-Ahead

	Sample Name	Method	Tray	Vial	Volume	Sample Info	Filename	Type	Cal Level	Update RF	Update RT	Interval	Amount
1	H2O	ALCOHOLS_FRONT.M	Tray1,VT98	1	1.0	water		Sample					
2	IBL1	ALCOHOLS_FRONT.M	Tray1,VT98	1	1.0	water		Sample					
3	CCV1	ALCOHOLS_FRONT.M	Tray1,VT98	2	1.0	ALCaM-111122-ACM		Sample					
4	H2O	ALCOHOLS_FRONT.M	Tray1,VT98	1	1.0	water		Sample					
5	BA23103-BLK1	ALCOHOLS_FRONT.M	Tray1,VT98	3	1.0	water		Sample					
6	BA23103-BS1	ALCOHOLS_FRONT.M	Tray1,VT98	4	1.0			Sample					
7	1201013-29	ALCOHOLS_FRONT.M	Tray1,VT98	5	1.0			Sample					
8	1201013-30	ALCOHOLS_FRONT.M	Tray1,VT98	6	1.0			Sample					
9	1201013-31	ALCOHOLS_FRONT.M	Tray1,VT98	7	1.0			Sample					
10	BA23103-MS1	ALCOHOLS_FRONT.M	Tray1,VT98	8	1.0			Sample					
11	BA23103-MSD1	ALCOHOLS_FRONT.M	Tray1,VT98	9	1.0			Sample					
12	1201013-32	ALCOHOLS_FRONT.M	Tray1,VT98	10	1.0			Sample					
13	1201013-33	ALCOHOLS_FRONT.M	Tray1,VT98	11	1.0			Sample					
14	1201013-34	ALCOHOLS_FRONT.M	Tray1,VT98	12	1.0			Sample					
15	1201013-35	ALCOHOLS_FRONT.M	Tray1,VT98	13	1.0			Sample					
16	1201013-36	ALCOHOLS_FRONT.M	Tray1,VT98	14	1.0			Sample					
17	H2O	ALCOHOLS_FRONT.M	Tray1,VT98	1	1.0			Sample					
18	IBL2	ALCOHOLS_FRONT.M	Tray1,VT98	1	1.0	water		Sample					
19	CCV2	ALCOHOLS_FRONT.M	Tray1,VT98	2	1.0	ALCaM-111122-ACM		Sample					
20	H2O	ALCOHOLS_FRONT.M	Tray1,VT98	1	1.0	water		Sample					

GERSTEL — Repeat 2 times — Increment Vial/Data File — Increment Sample Name — OK — Cancel — Help

Injector: Front — Mal 1 - H2O

Start | untitled - Paint | AG3-6890N (online): Met... | AG3-6890N (offline): Det... | Minesweeper | C:\Chem32\1\DATA\120... | Maestro Sequence Ta... | 12:29 PM

DIM0213954 DIM0214234

Maestro Sequence Table 1 - 1201131_ALCOHOL_BACK.S

Syringe: 10ul — Current MPS Syringe: 10ul

Injector: Front (Front) / Back (Rear)

Cut | Copy | Paste | Insert | Append | Delete | Import | All | Settings

Use PrepAhead

	Sample Name	Method	Tray	Vial	Volume	Sample Info	Filename	Type	Cal Level	Update RF	Update RT	Interval	Amount
1	H2O	ALCOHOLS_BACK.M	Tray1,VT98	1	0.8	water		Sample					
2	IBL1	ALCOHOLS_BACK.M	Tray1,VT98	1	0.8	water		Sample					
3	CCV1	ALCOHOLS_BACK.M	Tray1,VT98	2	0.8	ALCoM-111122-ACM		Sample					
4	H2O	ALCOHOLS_BACK.M	Tray1,VT98	1	0.8	water		Sample					
5	BA23103-BLK1	ALCOHOLS_BACK.M	Tray1,VT98	3	0.8	water		Sample					
6	BA23103-BS1	ALCOHOLS_BACK.M	Tray1,VT98	4	0.8			Sample					
7	1201013-29	ALCOHOLS_BACK.M	Tray1,VT98	5	0.8			Sample					
8	1201013-30	ALCOHOLS_BACK.M	Tray1,VT98	6	0.8			Sample					
9	1201013-31	ALCOHOLS_BACK.M	Tray1,VT98	7	0.8			Sample					
10	BA23103-MS1	ALCOHOLS_BACK.M	Tray1,VT98	8	0.8			Sample					
11	BA23103-MSD1	ALCOHOLS_BACK.M	Tray1,VT98	9	0.8			Sample					
12	1201013-32	ALCOHOLS_BACK.M	Tray1,VT98	10	0.8			Sample					
13	1201013-33	ALCOHOLS_BACK.M	Tray1,VT98	11	0.8			Sample					
14	1201013-34	ALCOHOLS_BACK.M	Tray1,VT98	12	0.8			Sample					
15	1201013-35	ALCOHOLS_BACK.M	Tray1,VT98	13	0.8			Sample					
16	1201013-36	ALCOHOLS_BACK.M	Tray1,VT98	14	0.8			Sample					
17	H2O	ALCOHOLS_BACK.M	Tray1,VT98	1	0.8			Sample					
18	IBL2	ALCOHOLS_BACK.M	Tray1,VT98	1	0.8	water		Sample					
19	CCV2	ALCOHOLS_BACK.M	Tray1,VT98	2	0.8	ALCoM-111122-ACM		Sample					
20	H2O	ALCOHOLS_BACK.M	Tray1,VT98	1	0.8	water		Sample					

GERSTEL — Repeat 2 times — Increment Vial/Data File — Increment Sample Name — OK — Cancel — Help

Injector: Rear — Vial 1 - H2O

Start | untitled - Paint | AG3-6890N (online): Met... | AG3-6890N (offline): Me... | Minesweeper | C:\Chem32\1\DATA\120... | Maestro Sequence Ta... | 5:06 PM

DIM0213954 DIM0214236

WASTE DILUTION PREPARATION BENCH SHEET

BA23103 **bch_waste.rpt**

LabNumber	Container ID	Collection Date	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	ExtractionComments
1201013-29	I	01/26/12 09:13	1	1	N/A	N/A	N/A	N/A	71 Drinking Water
1201013-30	I	01/27/12 09:40	1	1					71 Drinking Water
1201013-31	I	01/27/12 12:09	1	1					71 Drinking Water
1201013-32	I	01/27/12 13:18	1	1					71 Drinking Water
1201013-33	I	01/26/12 13:23	1	1					71 Drinking Water
1201013-34	I	01/27/12 11:40	1	1					71 Drinking Water
1201013-35	I	01/26/12 17:13	1	1					71 Drinking Water
1201013-36	I	01/26/12 19:15	1	1					71 Drinking Water
BA23103-BLK1	N/A	01/31/12 09:16	1	1					
BA23103-BS1		01/31/12 09:16	10	10	1100766		100		
BA23103-MS1		01/27/12 12:09	10	10	1100766	1201013-31	100		
BA23103-MSD1		01/27/12 12:09	10	10	1100766	1201013-31	100		

(No Surrogate)

WASTE DILUTION PREPARATION BENCH SHEET

BA23103 **bch_waste.rpt**

Project: DAS R33907

Work Order No: 1201013

Site Name: Dimock Residential Groundwater

Analysis: Alcohols by EPA 8015D

Location: Analyst

Prepared: 01/31/12 09:16

SOP#: 203

Analyst: ACM

Matrix: Water

Extraction Solvent: N/A		DI Water Pass: X Am		Balance Logbook #: N/A
Barcode #: N/A		Reagent Purity Check: X Am		Comments:
QC Info	Standard ID#	Conc µg/mL	Volume Added mL	
Surrogate Spike	N/A	N/A	N/A	
Matrix Spike	1100766	10,000	0.100	

Printed: 1/31/2012 12:17:07PM

WASTE DILUTION PREPARATION BENCH SHEET BA22701 bch_waste.rpt

LabNumber	Container ID	Collection Date	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	ExtractionComments
1201013-01	I	01/23/12 14:42	1	1	N/A	N/A	N/A	N/A	71 Drinking Water
1201013-03	D	01/23/12 17:47	1	1					71 Drinking Water
1201013-05	I	01/23/12 19:07	1	1					71 Drinking Water
BA22701-BLK1	N/A	01/26/12 08:00	1	1					
BA22701-BS1		01/26/12 08:00	10	10	1100766		100		
BA22701-MS1		01/23/12 17:47	10	10	1100766	1201013-03	100		
BA22701-MSD1		01/23/12 17:47	10	10	1100766	1201013-03	100		

(No Surrogate)

WASTE DILUTION PREPARATION BENCH SHEET

BA22701 **bch_waste.rpt**

Project: DAS R33907

Work Order No: 1201013

Site Name: Dimock Residential Groundwater

Analysis: Alcohols by EPA 8015D

Location: EPA #3 Shelf 8C

Prepared: 01/26/12 15:00

SOP#: 203

Analyst: ACM

Matrix: Water

Extraction Solvent: No Extraction Involved		**DI Water Pass:** X Aen	**Balance Logbook #:** N/A
Barcode #: N/A		**Reagent Purity Check:** X Aen	**Comments:** Direct Az injection
QC Info	**Standard ID#**	**Conc µg/mL**	**Volume Added mL**
Surrogate Spike	N/A	N/A	N/A
Matrix Spike	1100766	10,000	0.1

Printed: 1/27/2012 9:57:55AM

WASTE DILUTION PREPARATION BENCH SHEET

BA23001 **bch_waste.rpt**

LabNumber	Container ID	Collection Date	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	ExtractionComments
1201013-07	K	01/24/12 12:11	1	1	N/A	N/A	N/A	N/A	71 Drinking Water
1201013-09	K	01/24/12 14:33	1	1					71 Drinking Water
1201013-12	I	01/25/12 10:01	1	1					71 Drinking Water
1201013-13	I	01/25/12 12:58	1	1					71 Drinking Water
1201013-14	I	01/25/12 12:59	1	1					71 Drinking Water
1201013-15	I	01/25/12 16:31	1	1					71 Drinking Water
1201013-16	I	01/26/12 11:35	1	1					71 Drinking Water
1201013-17	I	01/26/12 15:30	1	1					71 Drinking Water
1201013-28	Q	01/25/12 11:46	1	1					71 Drinking Water
BA23001-BLK1	N/A	01/30/12 07:02	1	1					
BA23001-BS1		01/30/12 07:02	10	10	1100766		100		
BA23001-MS1		01/26/12 15:30	10	10	1100766	1201013-17	100		
BA23001-MSD1		01/26/12 15:30	10	10	1100766	1201013-17	100		

(No Surrogate)

WASTE DILUTION PREPARATION BENCH SHEET

BA23001 **bch_waste.rpt**

Project: DAS R33907

Work Order No: 1201013

Site Name: Dimock Residential Groundwater

Analysis: Alcohols by EPA 8015D

Location: Analyst

Prepared: 01/30/12 07:02

SOP#: 203

Analyst: ACM

Matrix: Water

Extraction Solvent: No extraction		DI Water Pass: X Acm		Balance Logbook #: N/A
Barcode #: N/A		Reagent Purity Check: X Acm		Comments: Direct Aq injection
QC Info	Standard ID#	Conc µg/mL	Volume Added mL	
Surrogate Spike	N/A	N/A	N/A	
Matrix Spike	1100766	10,000	0.100	

Printed: 1/30/2012 7:04:56AM

Inst Maint Logbook (SNB 289)

1-26-12 HP624 column was destroyed from injecting ethylene
Acn glycol into it. I found that this column is no longer
manufactured so I will be using a DB-1701 w/
a similar coating. Retention times were previously
found to be very close between these two columns.
Also the guard column has become too brittle to
use, therefore the instrument is now configured with
two columns one from the front inlet to front detector
(Stabilwax) and one from the back inlet to the
back detector (DB-1701).

1-27-12 New RT windows established for Stabilwax
Acn column.

Restek Stabilwax									
	10ppm	25ppm	50ppm	100ppm	250ppm	500ppm	SCV	Std Dev	3X Std Dev
Methanol	1.518	1.520	1.520	1.513	1.517	1.517	1.517	0.002	0.007
Ethanol	1.740	1.742	1.742	1.736	1.739	1.742	1.739	0.002	0.007
1-Propanol	2.516	2.518	2.517	2.512	2.519	2.533	2.513	0.007	0.021
2-Butanol	2.697	2.697	2.690	2.686	2.741	2.763	2.686	0.031	0.092
1-Butanol	4.772	4.773	4.775	4.767	4.773	4.781	4.769	0.004	0.013

All RT windows remain at .0.03 min except 2-butanol
which will be changed to 0.092

1-27-12 Syringe plunger broke. Replaced it
Acn

1/31/12 Adjusted RT's on back column

AM

RT-1701									
	10ppm	25ppm	50ppm	100ppm	250ppm	500ppm	SCV	Std Dev	3X Std Dev
Methanol	2.221	2.224	2.217	2.227	2.222	2.219	2.225	0.003	0.010
Ethanol	2.428	2.432	2.422	2.435	2.424	2.422	2.427	0.005	0.015
1-Propanol	3.085	3.089	3.079	3.093	3.082	3.079	3.083	0.005	0.016
2-Butanol	3.403	3.406	3.398	3.409	3.394	3.397	3.396	0.006	0.017
1-Butanol	4.402	4.404	4.399	4.405	4.393	4.399	4.395	0.004	0.013

-All RT windows adjusted to ± 0.03 min.

125 Market Street
New Haven, CT 06513 US

Tel (203) 786-5290 Fax (203) 786-5287
Web www.accustandard.com

AccuStandard, Inc.

CERTIFICATE OF ANALYSIS

CATALOG NO: S-10969
DESCRIPTION: Custom Alcohol Mix
LOT NO: B8060148
SOLVENT: Water

DATE CERTIFIED: Jun 13, 2008
EXPIRATION: Jun 13, 2018
SAMPLE SIZE: 1 mL
STORAGE CONDITION: Ambient
HAZARDS: POISON

[X] Included on ISO/IEC 17025 Scope of Accreditation
[X] Included on ISO Guide 34 Scope of Accreditation

5 Components	CAS #	Purity % (GC/FID)	Prepared Concentration[1] (mg/mL)	Certified Analyte Concentration[2] (mg/mL)
Methanol	67-56-1	100	10.01	10.01
Ethanol	64-17-5	100	10.01	10.01
1-Propanol	71-23-8	99	10.01	9.91
1-Butanol	71-36-3	100	10.00	10.00
sec-Butanol	78-92-2	98.9	10.00	9.89

Rec'd
6-17-08 by AT
Am

Please note:
A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix. AccuStandard follows U.S. conventions in reporting numerical values on both certificates and labels: a comma (,) is used to separate units of one-thousand or greater; a period (.) is used as a decimal place marker.

1. All weights are traceable through NIST, Test No. 822/272103-05
2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty calculated for this product is ±2% which is the Combined Uncertainty uc(y). It represents an estimated standard deviation equal to the positive square root of the total variance of the uncertainty of components. The Expanded Uncertainty is U which is Uc(y) *K where K is the coverage factor at the 95% confidence level (K=2).

Certified by: [redacted]

For use in routine laboratory analysis. Refer to the MSDS for more information.

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001.

QR-ORG1HO-001
Rev 06/05

Alteration of any information contained herein without written permission from AccuStandard strictly prohibited.

Certificate of Analysis

ULTRA SCIENTIFIC
Analytical Solutions

Custom Standard

Product Number: CUS-5033 **Page:** 1 of 1

Lot Number: CH-3603 **Lot Issue Date:** 08-Nov-2011 **Expiration Date:** 31-Dec-2013

This Certified Reference Material (RM) was manufactured and verified in accordance with ULTRA Scientific's ISO 9001 registered quality system. A review of the gravimetric preparation data by our ISO 17025 accredited laboratory serves to verify the concentration of each analyte. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
ethanol	000064-17-5	RM03898-01	10050 ± 50 µg/mL
methanol	000067-56-1	RM02298-01	10050 ± 50 µg/mL
1-propanol	000071-23-8	RM00988-02	10048 ± 50 µg/mL
1-butanol	000071-36-3	RM01813-0	10050 ± 50 µg/mL
2-butanol	000078-92-2	RM01299-0	10050 ± 50 µg/mL

Matrix: water (low TOC, < 50 ppb)

Storage: Store at < 4° C, Do Not Freeze

Rec'd
11-10-11
Am
5

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

A2LA ACCREDITED
ISO 17025:2005 Accredited A2LA Cert. No. 0851-01

ISO 9001:2008 Registered TUV USA, Inc. Cert. No. 09-1009

250 Smith Street, North Kingstown, RI 02852 USA
401-294-9400 Fax: 295-2330
wwww.ultrasci.com

[redacted]
Quality Assurance Manager

Alcohol Cal Stds

Exp 11-22-12

ID	Std	I Conc	I Vol	F Vol	F Conc
ALCal1-111122-ACN	CH3C03-111122	10,000 ppm	10 mL	10 mL	10 ppm
ALCal2-111122-ACN			25		25
ALCal3-111122-ACN			50		50
ALCal4-111122-ACN			100		100
ALCal5-111122-ACN			250		250
ALCal6-111122-ACN			500		500

Reagent Purity Check: OK ACN | In Water 18Ω

CUS-5033
Lot: CH-3603
Exp: 12/31/2013
ULTRA 1 mL
Custom Standard
-Quote#102811-106
5 analyte(s) at 10,000 µg/mL in water
(low TOC, < 50 ppb)
250 Smith St, No Kingstown, RI 02852 USA

opened 11-22-11 AP
11-22-12 AW

ALSCV-111122-ACN exp 11-22-12 (110076C)

Std	I Conc	I Vol	F Vol	F Conc
B8060148-111122	10,000 ppm	100 µL	10 mL	100 ppm

Reagent Purity Check: OK ACN | in Water 18Ω

AccuStandard
S-10969
Custom Alcohol Mix
10 mg/mL in Water
Lot: B8060148
Exp: Jun 13, 2018
~~CH00350~~ 1/10/12 1 mL
rec 6/17/08 5 comps.
POISON
FOR LABORATORY USE ONLY
open 11-22-11
exp 11-22-12
STORAGE Ambient ACN

Florisil Phenol CHK Std in Hexane | FPhen Chk-111209-ACN | exp 5-10-1

Std	I Conc	I Vol	F Vol	F Conc
A084784-111110	1000 ppm	5 µL	50 mL	100 ppb

Reagent Purity Check: OK ACN In Hexane 12765

~~Pest Surrogate Intermediate~~ PestSurrInt-111221-ACN, Exp 2-8-1

Std	I Conc	I Vol	F Vol	F Conc
1000432	100/200 ppm	400 µL		

A 12-21-11

Case File Contents

Alcohols

Alcohols by EPA 8015D

WO 1201013

Dimock Residential Groundwater

DAS R33907

Calibration Data

Instrument Method
Front Column

Method Information

Method: C:\CHEM32\1\METHODS\ALCOHOLS_FRONT.M
Modified: 1/26/2012 at 1:39:57 PM

FID method for Alcohol analysis Front Inlet

Method Audit Trail

Operator : ACM
Date : 1/26/2012 7:24:03 AM
Change Info: This method was created at 1/26/2012 7:24:03 AM and based on method C:\CHEM32\1\METHODS\ALCOHOLS_BACK.M

Operator : ACM
Date : 1/26/2012 7:24:06 AM
Change Info: Method saved. User comment: ""

Operator : ACM
Date : 1/26/2012 9:24:29 AM
Change Info: Method saved. User comment: ""

Operator : ACM
Date : 1/26/2012 10:19:31 AM
Change Info: Method saved. User comment: ""

Operator : ACM
Date : 1/26/2012 11:41:43 AM
Change Info: Method saved. User comment: ""

Operator : ACM
Date : 1/26/2012 1:30:06 PM
Change Info: Method saved. User comment: ""

Operator : ACM
Date : 1/26/2012 1:39:57 PM
Change Info: Method saved. User comment: ""

Run Time Checklist

Pre-Run Cmd/Macro:	off
Data Acquisition:	on
Standard Data Analysis:	on
Customized Data Analysis:	off
Save GLP Data:	off
Post-Run Cmd/Macro:	off

method: C:\CHEM32\1\METHODS\ALCOHOLS_FRONT.M
Modified on: 1/26/2012 at 1:39:57 PM
Save Method with Data: off

Injection Source and Location

Injection Source: Manual ← Injection source is Gerstel autosampler. AN 1-27-12

Injection Location: Front

==========

6890 GC METHOD

==========

OVEN
Initial temp: 60 'C (On)
Initial time: 1.00 min
Ramps:

#	Rate	Final temp	Final time
1	3.00	86	0.00
2	0.0(Off)		

Post temp: 60 'C
Post time: 0.00 min
Run time: 9.67 min

Maximum temp: 200 'C
Equilibration time: 1.00 min

FRONT INLET (SPLIT/SPLITLESS)
Mode: Pulsed Splitless
Initial temp: 230 'C (On)
Pressure: 3.19 psi (On)
Pulse pressure: 15.0 psi
Pulse time: 0.30 min
Purge flow: 50.0 mL/min
Purge time: 0.30 min
Total flow: 56.7 mL/min
Gas saver: Off
Gas type: Helium

BACK INLET (SPLIT/SPLITLESS)
Mode: Splitless
Initial temp: 230 'C (On)
Pressure: 3.20 psi (On)
Purge flow: 50.0 mL/min
Purge time: 1.00 min
Total flow: 57.0 mL/min
Gas saver: Off
Gas type: Helium

COLUMN 1
Capillary Column
Model Number: Restek Stabilwax
Stabilwax
Max temperature: 260 'C
Nominal length: 30.0 m
Nominal diameter: 530.00 um
Nominal film thickness: 0.50 um
Mode: constant flow
Initial flow: 4.0 mL/min
Nominal init pressure: 3.19 psi
Average velocity: 30 cm/sec
Inlet: Front Inlet
Outlet: Front Detector
Outlet pressure: ambient

COLUMN 2
Capillary Column
Model Number: Restek 19095V-423
HP-624
Max temperature: 260 'C
Nominal length: 30.0 m
Nominal diameter: 530.00 um
Nominal film thickness: 3.00 um
Mode: constant pressure
Pressure: 3.20 psi
Nominal initial flow: 3.9 mL/min
Average velocity: 30 cm/sec
Inlet: Back Inlet
Outlet: Back Detector
Outlet pressure: ambient

AN

FRONT DETECTOR (FID)
Temperature: 250 'C (On)
Hydrogen flow: 40.0 mL/min (On)
Air flow: 450.0 mL/min (On)
Mode: Constant column+makeup flow
Combined flow: 35.0 mL/min
Makeup flow: On
Makeup Gas Type: Nitrogen

BACK DETECTOR (FID)
Temperature: 250 'C (On)
Hydrogen flow: 40.0 mL/min (On)
Air flow: 450.0 mL/min (On)
Mode: Constant column+makeup flow
Combined flow: 35.0 mL/min
Makeup flow: On
Makeup Gas Type: Nitrogen

DIM0213954 DIM0214256

method: C:\CHEM32\1\METHODS\ALCOHOLS_FRONT.M
Modified on: 1/26/2012 at 1:39:57 PM

Flame: On
Electrometer: On
Lit offset: 2.0

SIGNAL 1
Data rate: 20 Hz
Type: front detector
Save Data: On
Zero: 0.0 (Off)
Range: 0
Fast Peaks: Off
Attenuation: 0

COLUMN COMP 1
Derive from front detector

Flame: On
Electrometer: On
Lit offset: 2.0

SIGNAL 2
Data rate: 20 Hz
Type: back detector
Save Data: On
Zero: 0.0 (Off)
Range: 0
Fast Peaks: Off
Attenuation: 0

COLUMN COMP 2
Derive from back detector

POST RUN
Post Time: 0.00 min

TIME TABLE

Time	Specifier	Parameter & Setpoint

GC Injector

Front Injector:
No parameters specified

Back Injector:
No parameters specified

Calibration Table

Alcohols

Calib. Data Modified : 2/4/2012 10:31:06 AM

Rel. Reference Window : 0.000 %
Abs. Reference Window : 0.030 min
Rel. Non-ref. Window : 0.000 %
Abs. Non-ref. Window : 0.030 min
Uncalibrated Peaks : not reported
Partial Calibration : Yes, identified peaks are recalibrated
Correct All Ret. Times: No, only for identified peaks

Curve Type : Linear
Origin : Ignored
Weight : Equal

- Fcal Front Column

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

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

Signal 1: FID1 A,
Signal 2: FID2 B,

RetTime [min]	Sig	Lvl	Amount [ug/mL]	Area	Amt/Area	Ref	Grp	Name
1.513	1	1	10.00000	31.96298	3.12862e-1			Methanol
		2	25.00000	79.98569	3.12556e-1			
		3	50.00000	163.90118	3.05062e-1			
		4	100.00000	330.92081	3.02187e-1			
		5	250.00000	818.31055	3.05507e-1			
		6	500.00000	1920.95190	2.60288e-1			
1.736	1	1	10.00000	83.38012	1.19933e-1			Ethanol
		2	25.00000	215.69475	1.15905e-1			
		3	50.00000	443.07431	1.12848e-1			
		4	100.00000	863.82367	1.15764e-1			
		5	250.00000	2215.14941	1.12859e-1			
		6	500.00000	4588.53760	1.08967e-1			
2.512	1	1	10.00000	64.15280	1.55878e-1			1-Propanol
		2	25.00000	164.31691	1.52145e-1			
		3	50.00000	342.64206	1.45925e-1			
		4	100.00000	683.20758	1.46368e-1			
		5	250.00000	1727.10632	1.44751e-1			
2.686	1	1	10.00000	123.92375	8.06948e-2			sec-Butanol
		2	25.00000	323.12463	7.73695e-2			
		3	50.00000	664.54584	7.52394e-2			
		4	100.00000	1308.31335	7.64343e-2			
		5	250.00000	3295.47778	7.58615e-2			

Method C:\CHEM32\1\METHODS\ALC_QUANT_120126.M

RetTime [min]	Sig	Lvl	Amount [ug/mL]	Area	Amt/Area	Ref	Grp	Name
		6	500.00000	5736.55176	8.71604e-2			
4.781	1	1	10.00000	95.84042	1.04340e-1			1-Butanol
		2	25.00000	251.62195	9.93554e-2			
		3	50.00000	523.88934	9.54400e-2			
		4	100.00000	1030.44666	9.70453e-2			
		5	250.00000	2603.50293	9.60245e-2			
		6	500.00000	5429.77197	9.20849e-2			

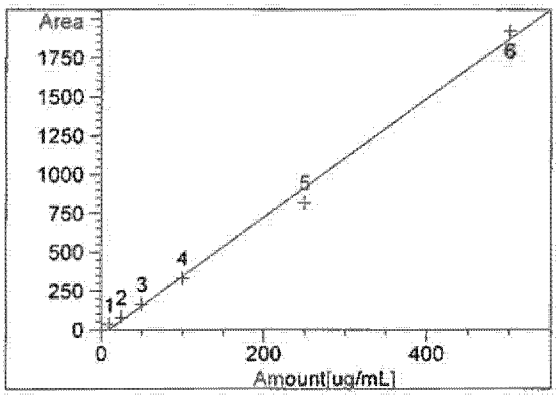
More compound-specific settings:

Compound: sec-Butanol
Time Window : From 2.677 min To 2.877 min

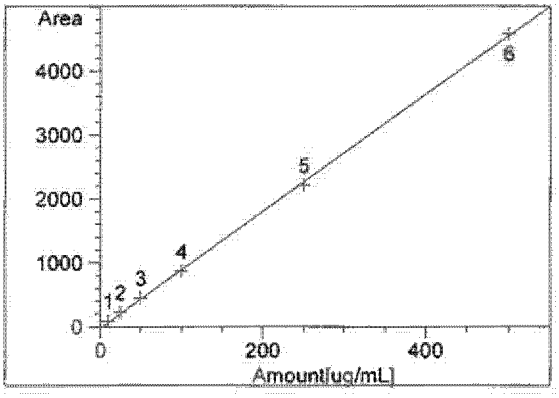
Peak Sum Table

No Entries in table

Calibration Curves



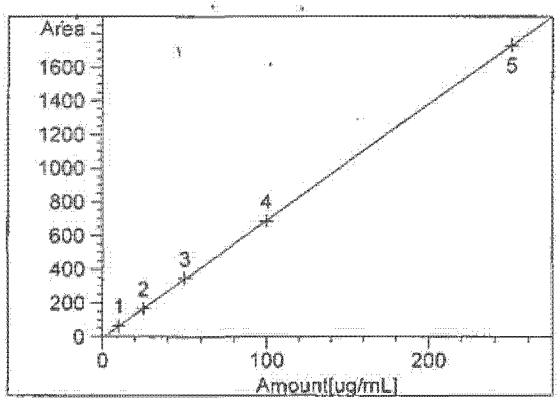
Methanol at exp. RT: 1.517
FID1 A,
Correlation: 0.99735
Residual Std. Dev.: 59.03028
Formula: y = mx + b
m: 3.81754
b: -37.22760
x: Amount
y: Area



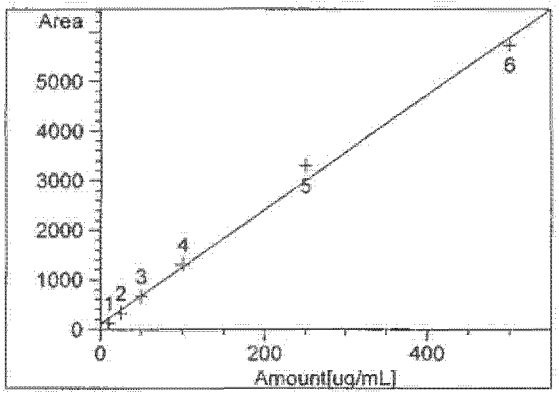
Ethanol at exp. RT: 1.742
FID1 A,
Correlation: 0.99984
Residual Std. Dev.: 34.65132
Formula: y = mx + b
m: 9.17845
b: -28.69923
x: Amount
y: Area

OK
Checked
w/Excel

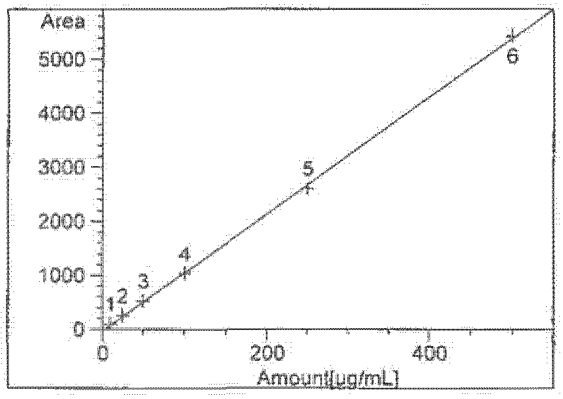
ACM



1-Propanol at exp. RT: 2.533
FID1 A,
Correlation: 0.99999
Residual Std. Dev.: 2.97317
Formula: y = mx + b
m: 6.93228
b: -6.82344
x: Amount
y: Area



sec-Butanol at exp. RT: 2.763
FID1 A,
Correlation: 0.99732
Residual Std. Dev.: 179.75176
Formula: y = mx + b
m: 11.55937
b: 107.32072
x: Amount
y: Area



1-Butanol at exp. RT: 4.781
FID1 A,
Correlation: 0.99980
Residual Std. Dev.: 45.93492
Formula: y = mx + b
m: 10.85449
b: -35.64571
x: Amount
y: Area

==========

Integration Events

Non signal specific Integration Events

Event	Value
Tangent Skim Mode	Standard
Tail Peak Skim Height Ratio	500000000.000
Front Peak Skim Height Ratio	5000000000.000
Skim Valley Ratio	5000000000.000
Baseline Correction	Classical
Peak to Valley Ratio	5000.000

Default Integration Event Table "Event"

Event	Value	Time
Initial Slope Sensitivity	1.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.700	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_TCD"

Event	Value	Time
Initial Slope Sensitivity	100.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_ADC"

Event	Value	Time
Initial Slope Sensitivity	20.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

— not used

AM 1-27-12

Detector Default Integration Event Table "Event_ECD"

Event	Value	Time
Initial Slope Sensitivity	100.000	Initial
Initial Peak Width	0.080	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_NPD"

Event	Value	Time
Initial Slope Sensitivity	500.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_FPD"

Event	Value	Time
Initial Slope Sensitivity	50.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

not used
Av
1-27-12

Detector Default Integration Event Table "Event_uECD"

Event	Value	Time
Initial Slope Sensitivity	500.000	Initial
Initial Peak Width	0.080	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_FID"

Event	Value	Time
Initial Slope Sensitivity	1.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	10.000	Initial
Initial Height Reject	10.000	Initial
Initial Shoulders	OFF	Initial

Signal Specific Integration Event Table "Event_FID2B"

Event	Value	Time
Initial Slope Sensitivity	1.000	Initial
Initial Peak Width	0.076	Initial
Initial Area Reject	0.520	Initial
Initial Height Reject	0.057	Initial
Initial Shoulders	OFF	Initial

Signal Specific Integration Event Table "Event_FID1A"

Event	Value	Time
Initial Slope Sensitivity	0.679	Initial
Initial Peak Width	0.066	Initial
Initial Area Reject	30.000	Initial
Initial Height Reject	3.000	Initial
Initial Shoulders	OFF	Initial

Apply Method's Manual Integration Events: No

Acm

Calibration Table

Alcohols

copied from ALC_QUANT_FRONT_120120.M - RTs adjusted to compensate for slight RT shift. AL 1-31-12

Calib. Data Modified : 1/31/2012 7:42:32 AM

Rel. Reference Window : 0.000 %
Abs. Reference Window : 0.030 min
Rel. Non-ref. Window : 0.000 %
Abs. Non-ref. Window : 0.030 min
Uncalibrated Peaks : not reported
Partial Calibration : Yes, identified peaks are recalibrated
Correct All Ret. Times: No, only for identified peaks

Curve Type : Linear
Origin : Ignored
Weight : Equal

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

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

Signal 1: FID1 A,
Signal 2: FID2 B,

RetTime [min]	Sig	Lvl	Amount [ug/mL]	Area	Amt/Area	Ref	Grp	Name
1.527	1	1	10.00000	31.96298	3.12862e-1			Methanol
		2	25.00000	79.98569	3.12556e-1			
		3	50.00000	163.90118	3.05062e-1			
		4	100.00000	330.92081	3.02187e-1			
		5	250.00000	818.31055	3.05507e-1			
		6	500.00000	1920.95190	2.60288e-1			
1.749	1	1	10.00000	83.38012	1.19933e-1			Ethanol
		2	25.00000	215.69475	1.15905e-1			
		3	50.00000	443.07431	1.12848e-1			
		4	100.00000	863.82367	1.15764e-1			
		5	250.00000	2215.14941	1.12859e-1			
		6	500.00000	4588.53760	1.08967e-1			
2.527	1	1	10.00000	64.15280	1.55878e-1			1-Propanol
		2	25.00000	164.31691	1.52145e-1			
		3	50.00000	342.64206	1.45925e-1			
		4	100.00000	683.20758	1.46368e-1			
		5	250.00000	1727.10632	1.44751e-1			
2.755	1	1	10.00000	123.92375	8.06948e-2			2-Butanol
		2	25.00000	323.12463	7.73695e-2			
		3	50.00000	664.54584	7.52394e-2			
		4	100.00000	1308.31335	7.64343e-2			
		5	250.00000	3295.47778	7.58615e-2			

AL

RetTime [min]	Sig	Lvl	Amount [ug/mL]	Area	Amt/Area	Ref	Grp	Name
		6	500.00000	5736.55176	8.71604e-2			
4.776	1	1	10.00000	95.84042	1.04340e-1			1-Butanol
		2	25.00000	251.62195	9.93554e-2			
		3	50.00000	523.88934	9.54400e-2			
		4	100.00000	1030.44666	9.70453e-2			
		5	250.00000	2603.50293	9.60245e-2			
		6	500.00000	5429.77197	9.20849e-2			

More compound-specific settings:

Compound: 2-Butanol
Time Window : From 2.709 min To 2.801 min

Peak Sum Table

No Entries in table

Calibration Table

Alcohols

- copied from ALC_QUANT_FRONT_120120.M Retention times adjusted to compensate for slight shift. AM 2-1-12

Calib. Data Modified : 2/1/2012 7:17:05 AM

Rel. Reference Window : 0.000 %
Abs. Reference Window : 0.030 min
Rel. Non-ref. Window : 0.000 %
Abs. Non-ref. Window : 0.030 min
Uncalibrated Peaks : not reported
Partial Calibration : Yes, identified peaks are recalibrated
Correct All Ret. Times: No, only for identified peaks

Curve Type : Linear
Origin : Ignored
Weight : Equal

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

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

Signal 1: FID1 A,
Signal 2: FID2 B,

RetTime [min]	Sig	Lvl	Amount [ug/mL]	Area	Amt/Area	Ref	Grp	Name
1.532	1	1	10.00000	31.96298	3.12862e-1			Methanol
		2	25.00000	79.98569	3.12556e-1			
		3	50.00000	163.90118	3.05062e-1			
		4	100.00000	330.92081	3.02187e-1			
		5	250.00000	818.31055	3.05507e-1			
		6	500.00000	1920.95190	2.60288e-1			
1.754	1	1	10.00000	83.38012	1.19933e-1			Ethanol
		2	25.00000	215.69475	1.15905e-1			
		3	50.00000	443.07431	1.12848e-1			
		4	100.00000	863.82367	1.15764e-1			
		5	250.00000	2215.14941	1.12859e-1			
		6	500.00000	4588.53760	1.08967e-1			
2.525	1	1	10.00000	64.15280	1.55878e-1			1-Propanol
		2	25.00000	164.31691	1.52145e-1			
		3	50.00000	342.64206	1.45925e-1			
		4	100.00000	683.20758	1.46368e-1			
		5	250.00000	1727.10632	1.44751e-1			
2.756	1	1	10.00000	123.92375	8.06948e-2			2-Butanol
		2	25.00000	323.12463	7.73695e-2			
		3	50.00000	664.54584	7.52394e-2			
		4	100.00000	1308.31335	7.64343e-2			
		5	250.00000	3295.47778	7.58615e-2			

Method C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120131.M

RetTime [min]	Sig	Lvl	Amount [ug/mL]	Area	Amt/Area	Ref	Grp	Name
		6	500.00000	5736.55176	8.71604e-2			
4.789	1	1	10.00000	95.84042	1.04340e-1			1-Butanol
		2	25.00000	251.62195	9.93554e-2			
		3	50.00000	523.88934	9.54400e-2			
		4	100.00000	1030.44666	9.70453e-2			
		5	250.00000	2603.50293	9.60245e-2			
		6	500.00000	5429.77197	9.20849e-2			

More compound-specific settings:

Compound: 2-Butanol
Time Window : From 2.601 min To 2.802 min

Peak Sum Table

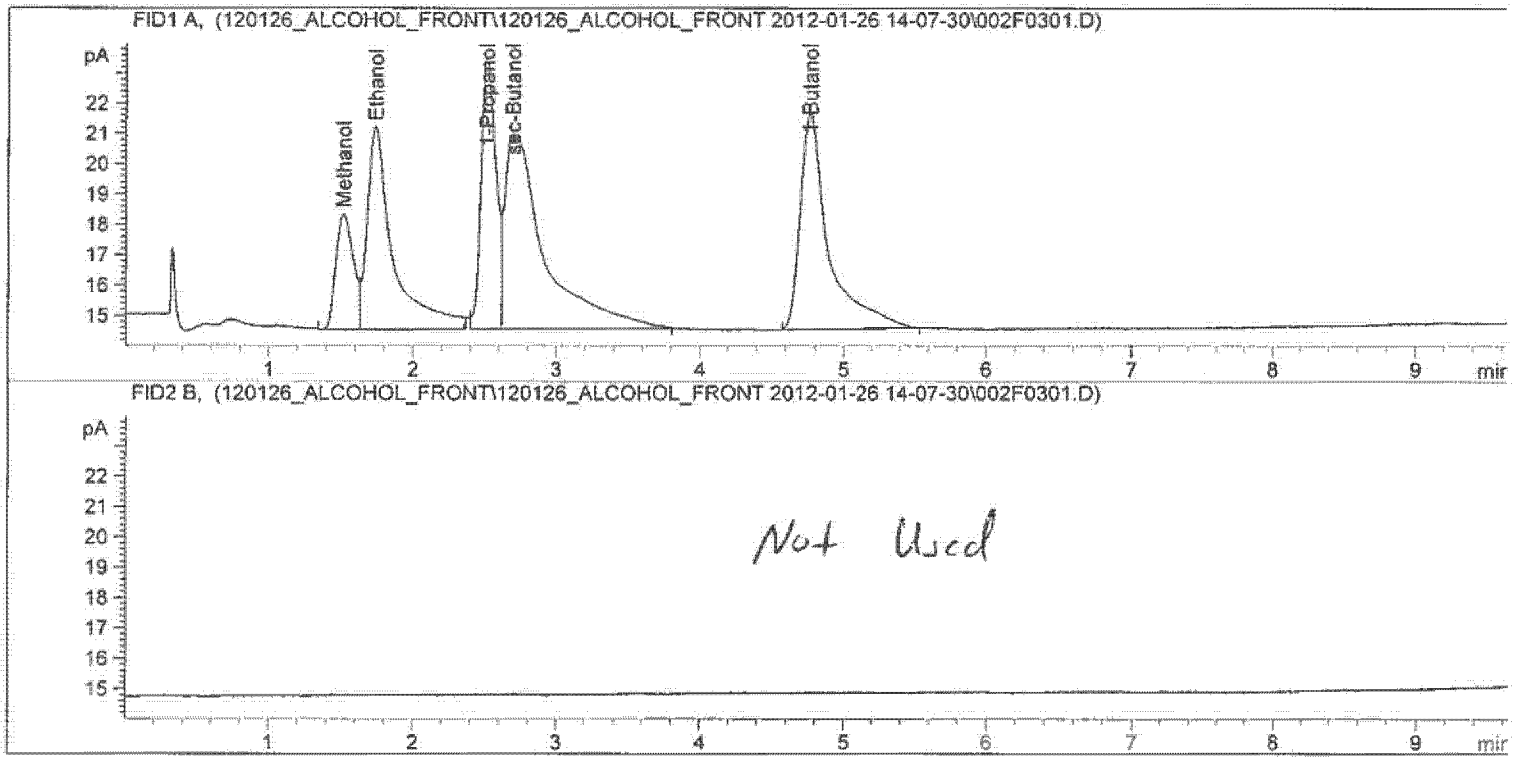
No Entries in table

Sample Name: Cal 1

Acq. Operator	: ACM	Seq. Line :	3
Acq. Instrument	: AG3-6890N	Location :	Vial 2
Injection Date	: 1/26/2012 2:37:53 PM	Inj :	1
		Inj Volume :	1 µl

Acq. Method : C:\CHEM32\1\DATA\120126_ALCOHOL_FRONT\120126_ALCOHOL_FRONT 2012-01-26 14-07-30\ALCOHOLS_FRONT.M
Last changed : 1/26/2012 1:39:57 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_120126.M
Last changed : 1/27/2012 8:22:15 AM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : ALCal1-111122-ACM



External Standard Report

Sorted By : Signal
Calib. Data Modified : 1/27/2012 8:21:45 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.518	BV	31.96298	5.67043e-1	18.12440		Methanol
1.740	VB	83.38012	1.46451e-1	12.21113		Ethanol
2.516	BV	64.15280	1.59596e-1	10.23851		1-Propanol

Sample Name: Cal 1

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.697	VB	123.92375	1.15904e-2	1.43633		sec-Butanol
4.772	BB	95.84042	1.26393e-1	12.11353		1-Butanol
Totals :				54.12389		

Signal 2: FID2 B,

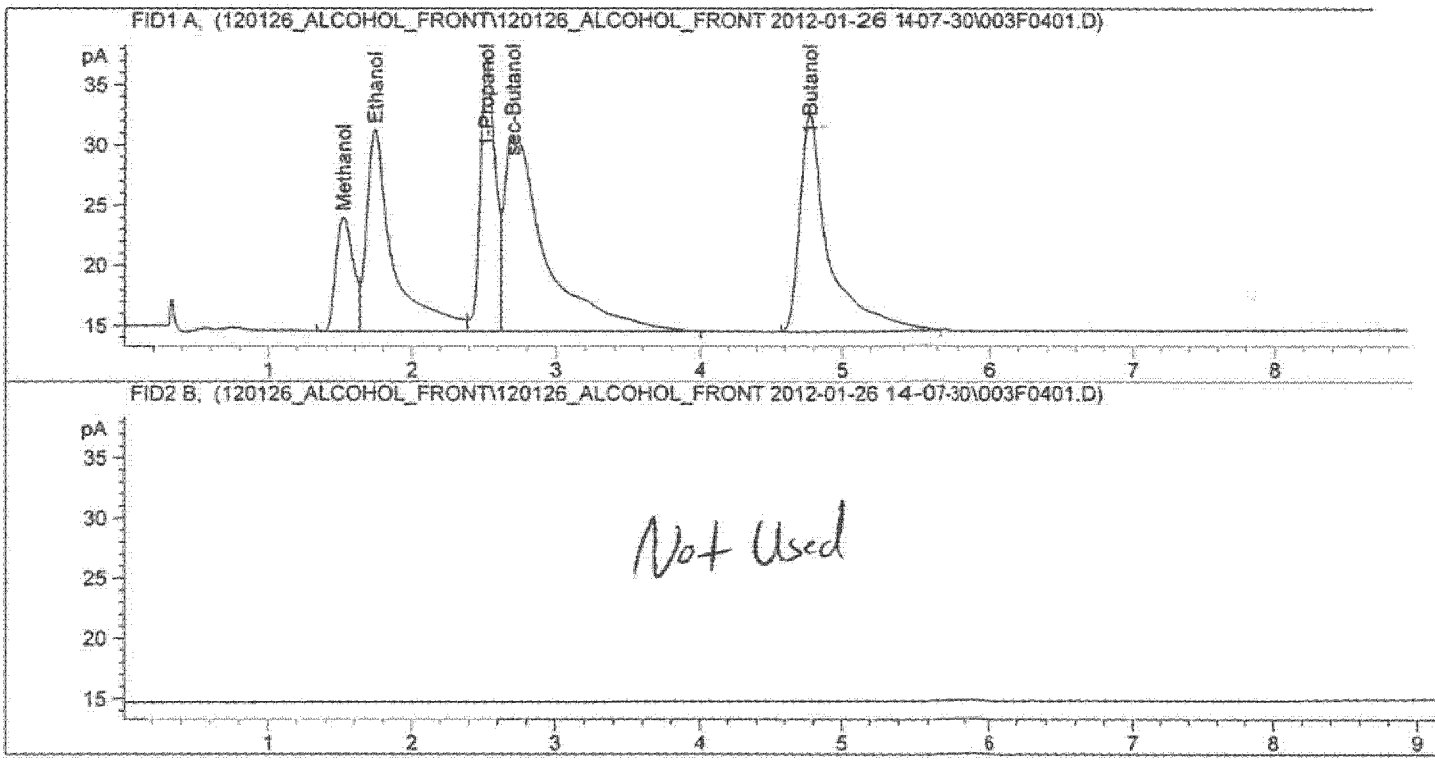
*** End of Report ***

Data File C:\CHEM32\...6_ALCOHOL_FRONT\120126_ALCOHOL_FRONT 2012-01-26 14-07-30\003F0
Sample Name: Cal 2

Acq. Operator	: ACM	Seq. Line :	4
Acq. Instrument	: AG3-6890N	Location :	Vial 3
Injection Date	: 1/26/2012 2:51:42 PM	Inj :	1
		Inj Volume :	1 µl

Acq. Method : C:\CHEM32\1\DATA\120126_ALCOHOL_FRONT\120126_ALCOHOL_FRONT 2012-0 07-30\ALCOHOLS_FRONT.M
Last changed : 1/26/2012 1:39:57 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_120126.M
Last changed : 1/27/2012 8:22:15 AM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : ALCal2-111122-ACM



External Standard Report

Sorted By : Signal
Calib. Data Modified : 1/27/2012 8:21:45 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

An

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.520	BV	79.98569	3.83867e-1	30.70389		Methanol
1.742	VV	215.69475	1.23447e-1	26.62692		Ethanol
2.518	VV	164.31691	1.50243e-1	24.68745		1-Propanol

AG3-6890N 1/27/2012 8:44:44 AM ACM

Data File C:\CHEM32\...6_ALCOHOL_FRONT\120126_ALCOHOL_FRONT 2012-01-26 14-07-30\002F0301.D
Sample Name: Cal 1

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.697	VB	123.92375	1.15904e-2	1.43633		sec-Butanol
4.772	BB	95.84042	1.26393e-1	12.11353		1-Butanol

Totals : 54.12389

Signal 2: FID2 B,

*** End of Report ***

Data File C:\CHEM32\...6_ALCOHOL_FRONT\120126_ALCOHOL_FRONT 2012-01-26 14-07-30\003F0401.D
Sample Name: Cal 2

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.697	VB	323.12463	5.77770e-2	18.66917		sec-Butanol
4.773	BB	251.62195	1.05179e-1	26.46533		1-Butanol

Totals : 127.15276

Signal 2: FID2 B,

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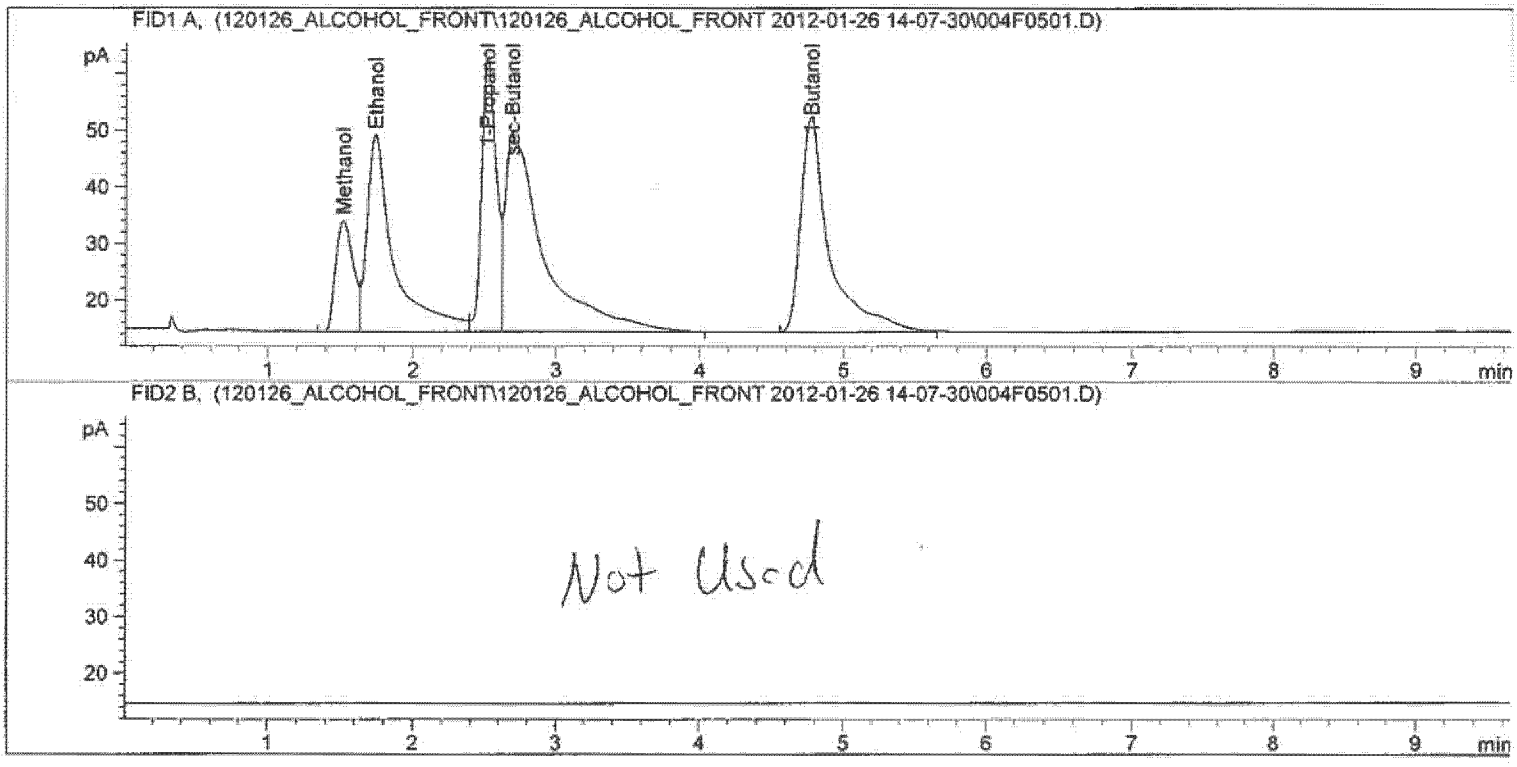
*** End of Report ***

Am

Data File C:\CHEM32\...6_ALCOHOL_FRONT\120126_ALCOHOL_FRONT 2012-01-26 14-07-30\004F0501.D
Sample Name: Cal 3

Acq. Operator	: ACM	Seq. Line :	5
Acq. Instrument	: AG3-6890N	Location :	Vial 4
Injection Date	: 1/26/2012 3:05:33 PM	Inj :	1
		Inj Volume :	1 µl
Acq. Method	: C:\CHEM32\1\DATA\120126_ALCOHOL_FRONT\120126_ALCOHOL_FRONT 2012-01-26 14-07-30\ALCOHOLS_FRONT.M		
Last changed	: 1/26/2012 1:39:57 PM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_120126.M		
Last changed	: 1/27/2012 8:22:15 AM by ACM		
Method Info	: FID method for Alcohol analysis		

Sample Info : ALCal3-111122-ACM



External Standard Report

Sorted By : Signal
Calib. Data Modified : 1/27/2012 8:21:45 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Am

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.520	BV	163.90118	3.21446e-1	52.68546		Methanol
1.742	VV	443.07431	1.16008e-1	51.40010		Ethanol ok calcd w/ excl
2.517	VV	342.64206	1.47125e-1	50.41132		1-Propanol

Data File C:\CHEM32\...6_ALCOHOL_FRONT\120126_ALCOHOL_FRONT 2012-01-26 14-07-30\004F0501.D
Sample Name: Cal 3

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.690	VB	664.54584	7.25390e-2	48.20548		sec-Butanol
4.775	BV	523.88934	9.83962e-2	51.54872		1-Butanol

Totals : 254.25109

Signal 2: FID2 B,

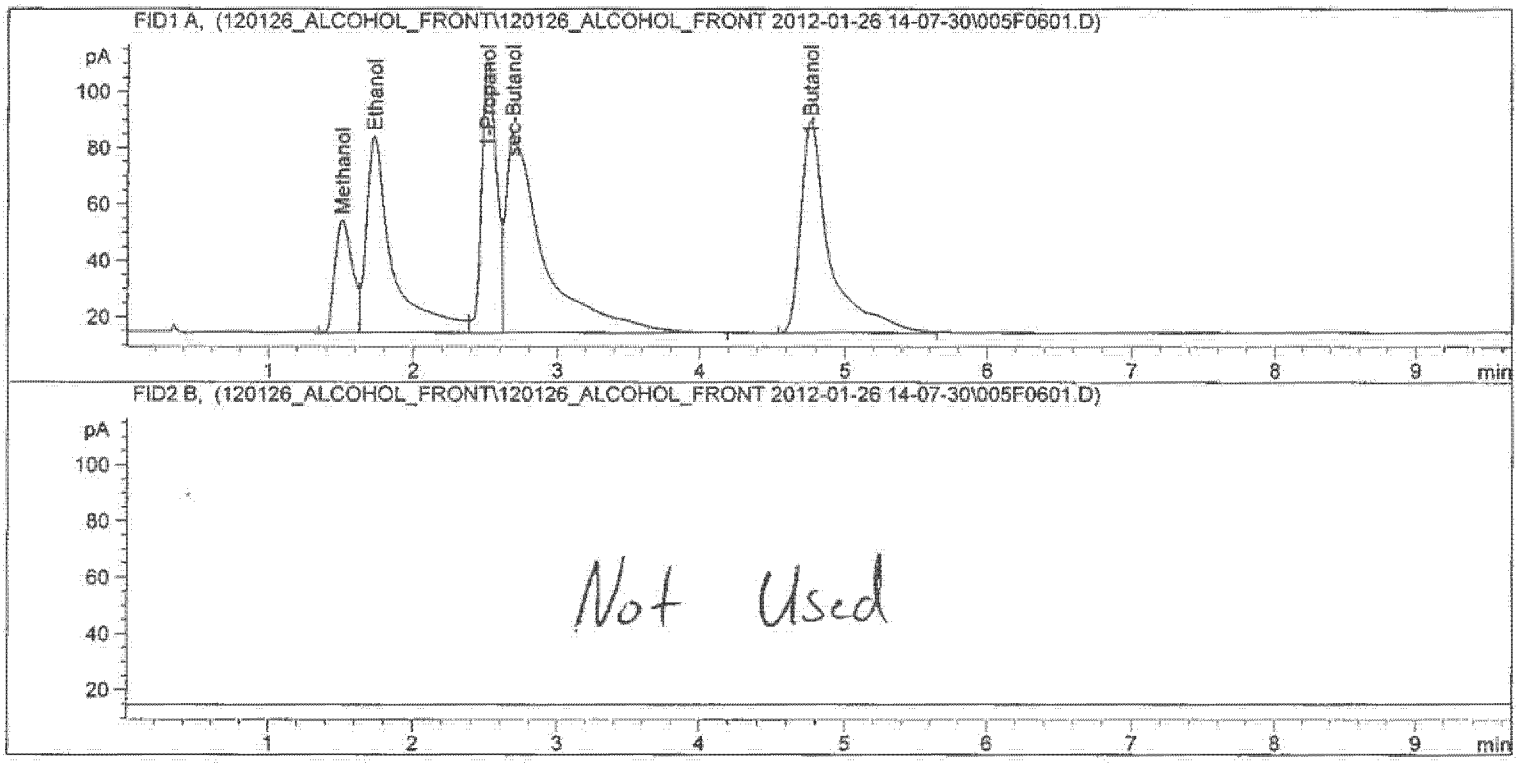
*** End of Report ***

Data File C:\CHEM32\...6_ALCOHOL_FRONT\120126_ALCOHOL_FRONT 2012-01-26 14-07-30\005F0601.D
Sample Name: Cal 4

Acq. Operator	: ACM	Seq. Line :	6
Acq. Instrument	: AG3-6890N	Location :	Vial 5
Injection Date	: 1/26/2012 3:19:24 PM	Inj :	1
		Inj Volume :	1 µl

Acq. Method : C:\CHEM32\1\DATA\120126_ALCOHOL_FRONT\120126_ALCOHOL_FRONT 2012-01-26 14-07-30\ALCOHOLS_FRONT.M
Last changed : 1/26/2012 1:39:57 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_120126.M
Last changed : 1/27/2012 8:22:15 AM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : ALCal4-111122-ACM



External Standard Report

Sorted By : Signal
Calib. Data Modified : 1/27/2012 8:21:45 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Acr

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.513	BV	330.92081	2.91417e-1	96.43606		Methanol
1.736	VV	863.82367	1.12571e-1	97.24108		Ethanol
2.512	VV	683.20758	1.45693e-1	99.53879		1-Propanol

ok checked w/ excel

Data File C:\CHEM32\...6_ALCOHOL_FRONT\120126_ALCOHOL_FRONT 2012-01-26 14-07-30\005F0601.D
Sample Name: Cal 4

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.686	VB	1308.31335	7.94135e-2	103.89774		sec-Butanol
4.767	BV	1030.44666	9.53147e-2	98.21672		1-Butanol

Totals : 495.33040

Signal 2: FID2 B,

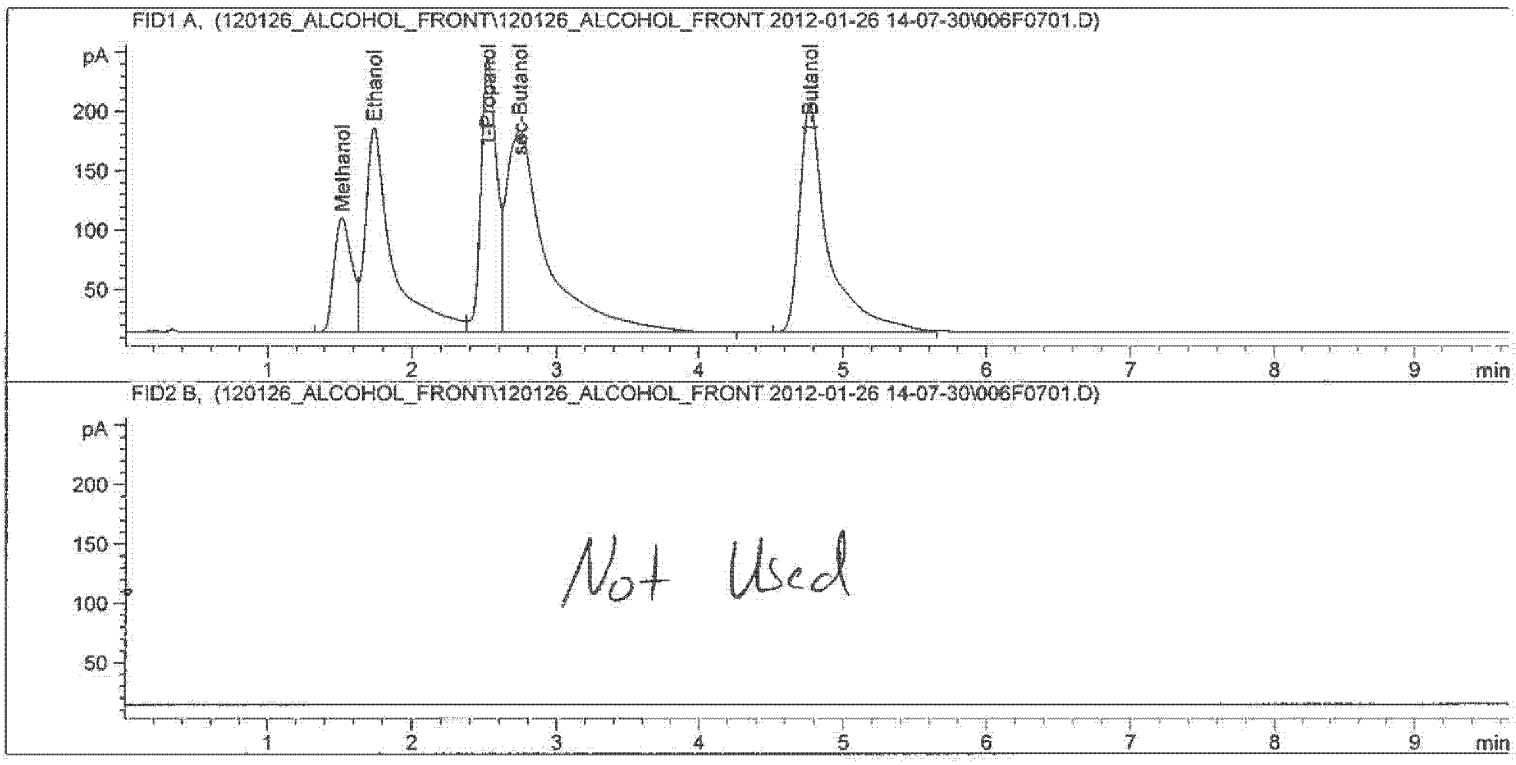
*** End of Report ***

Data \CHEM32\...6_ALCOHOL_FRONT\120126_ALCOHOL_FRONT 2012-01-26 14-07-30\006F0701.D
Sample Name: Cal 5

Acq. Operator	: ACM	Seq. Line	: 7
Acq. Instrument	: AG3-6890N	Location	: Vial 6
Injection Date	: 1/26/2012 3:33:13 PM	Inj	: 1
		Inj Volume	: 1 µl

Acq. Method : C:\CHEM32\1\DATA\120126_ALCOHOL_FRONT\120126_ALCOHOL_FRONT 2012-01-26 14-07-30\ALCOHOLS_FRONT.M
Last changed : 1/26/2012 1:39:57 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_120126.M
Last changed : 1/27/2012 8:22:15 AM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : ALCal5-111122-ACM



External Standard Report

Sorted By : Signal
Calib. Data Modified : 1/27/2012 8:21:45 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Am

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.517	VV	818.31055	2.73866e-1	224.10726		Methanol
1.739	VV	2215.14941	1.10362e-1	244.46911		Ethanol
2.519	VV	1727.10632	1.44823e-1	250.12393		1-Propanol

ok checked w/ excel

Data F\...\CHEM32\...6_ALCOHOL_FRONT\120126_ALCOHOL_FRONT 2012-01-26 14-07-30\006F0701.D
Sample Name: Cal 5

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.741	VB	3295.47778	8.36926e-2	275.80712		sec-Butanol
4.773	BV	2603.50293	9.33891e-2	243.13890		1-Butanol

Totals : 1237.64632

Signal 2: FID2 B,

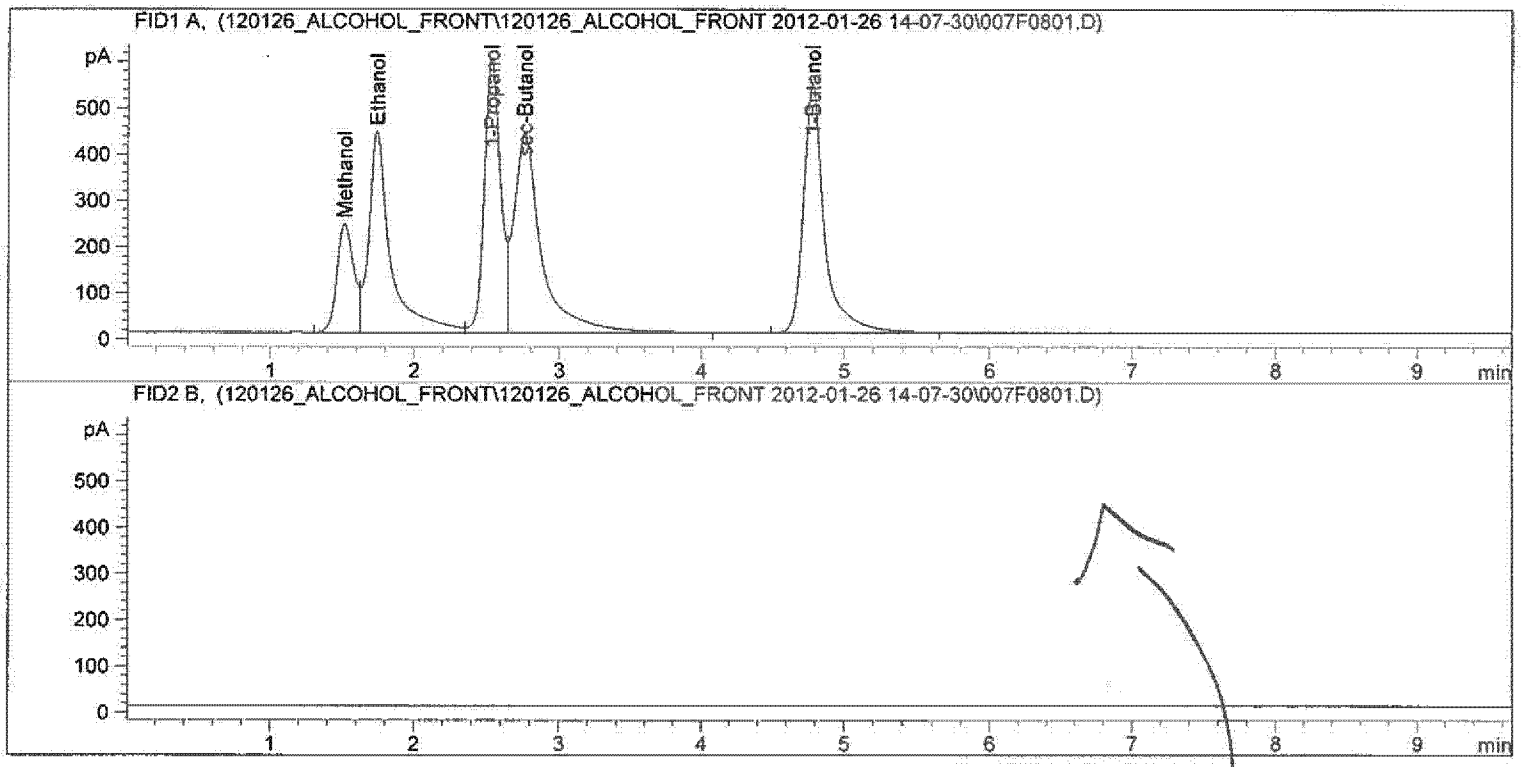
*** End of Report ***

Data File C:\CHEM32\...6_ALCOHOL_FRONT\120126_ALCOHOL_FRONT 2012-01-26 14-07-30\007F0801.D
Sample Name: Cal 6

Acq. Operator	: ACM	Seq. Line :	8
Acq. Instrument	: AG3-6890N	Location :	Vial 7
Injection Date	: 1/26/2012 3:47:02 PM	Inj :	1
		Inj Volume :	1 µl

Acq. Method : C:\CHEM32\1\DATA\120126_ALCOHOL_FRONT\120126_ALCOHOL_FRONT 2012-01-26 14-07-30\ALCOHOLS_FRONT.M
Last changed : 1/26/2012 1:39:57 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_120126.M
Last changed : 1/27/2012 8:22:15 AM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : ALCal6-111122-ACM



Not used

External Standard Report

Sorted By : Signal
Calib. Data Modified : 1/27/2012 8:21:45 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.517	VV	1920.95190	2.67025e-1	512.94293		Methanol
1.742	VV	4588.53760	1.09632e-1	503.05165		Ethanol
2.533	VV	4542.22510	1.44469e-1	656.21223		1-Propanol

An

Data File C:\CHEM32\...6_ALCOHOL_FRONT\120126_ALCOHOL_FRONT 2012-01-26 14-07-30\007F0801.D
Sample Name: Cal 6

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.763	VV	5736.55176	8.48914e-2	486.98416		sec-Butanol
4.781	BV	5429.77197	9.27326e-2	503.51679		1-Butanol

Totals : 2662.70777

Signal 2: FID2 B,

*** End of Report ***

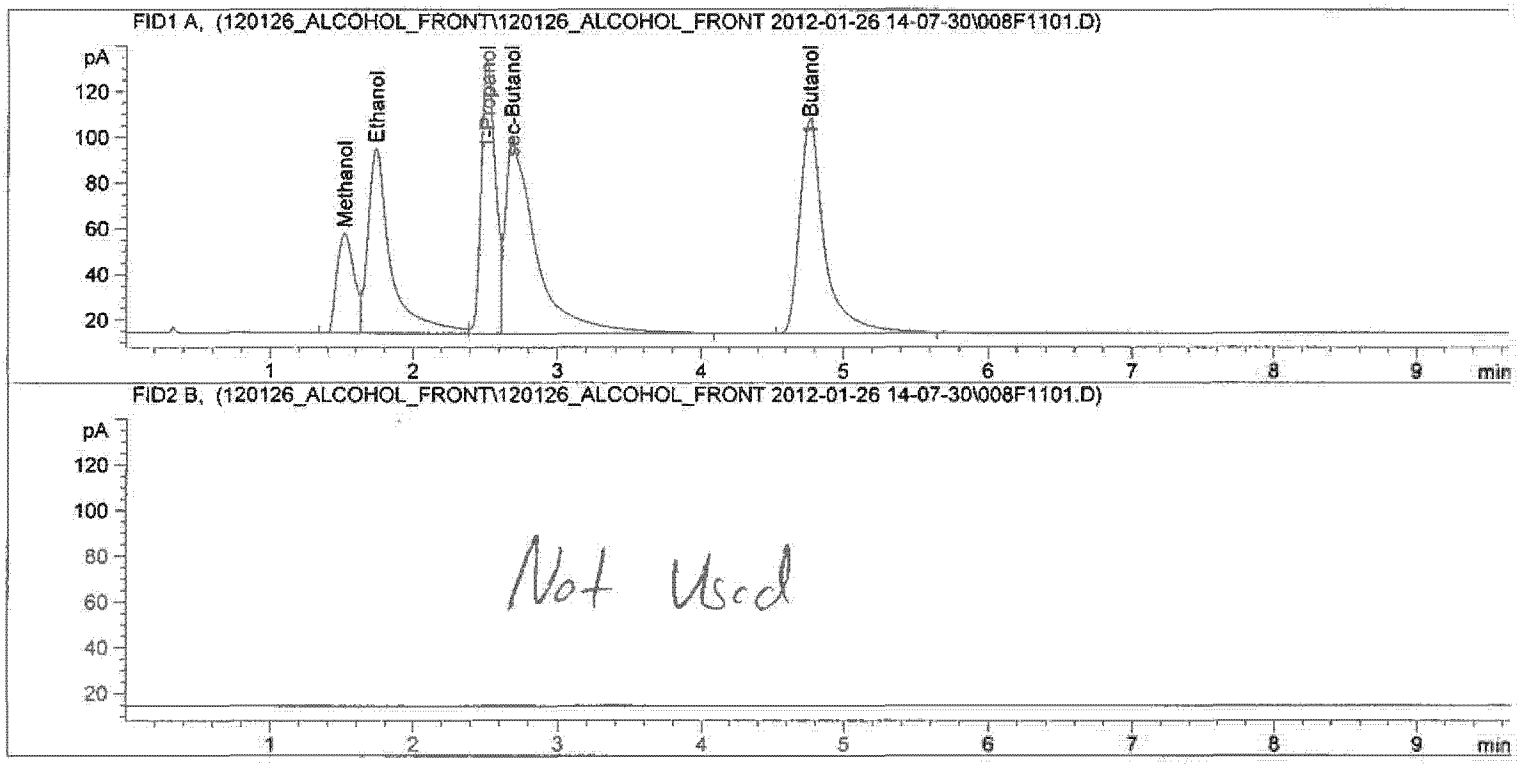
Cal level 6 for 1-propanol removed from cal curve. Quant limits are 10ppm - 250ppm for 1-propanol.
AN
1-27-12

Data File C:\CHEM32\...6_ALCOHOL_FRONT\120126_ALCOHOL_FRONT 2012-01-26 14-07-30\008F1101.D
Sample Name: SCV

Acq. Operator	: ACM	Seq. Line	: 11
Acq. Instrument	: AG3-6890N	Location	: Vial 8
Injection Date	: 1/26/2012 4:28:33 PM	Inj	: 1
		Inj Volume	: 1 µl

Acq. Method : C:\CHEM32\1\DATA\120126_ALCOHOL_FRONT\120126_ALCOHOL_FRONT 2012-01-26 14-07-30\ALCOHOLS_FRONT.M
Last changed : 1/26/2012 1:39:57 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_120126.M
Last changed : 1/27/2012 8:22:15 AM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : ALSCV-111122-ACM



External Standard Report

Sorted By : Signal
Calib. Data Modified : 1/27/2012 8:21:45 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%Diff
1.517	BV	362.18692	2.88873e-1	104.62619		Methanol	4.63%
1.739	VV	897.98401	1.12433e-1	100.96288		Ethanol	0.962%
2.513	VV	805.90540	1.45474e-1	117.23827		1-Propanol	17.2%

Data File C:\CHEM32\...6_ALCOHOL_FRONT\120126_ALCOHOL_FRONT 2012-01-26 14-07-30\008F1101.D
Sample Name: SCV

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	% D.Af
2.686	VB	1233.03162	7.89802e-2	97.38513		sec-Butanol	2.61
4.769	BV	1116.98376	9.50678e-2	106.18919		1-Butanol	6.19
Totals :				526.40166			

Signal 2: FID2 B,

*** End of Report ***

- passes all

Ar

Method Information

Method: C:\CHEM32\1\METHODS\ALCOHOLS_BACK.M
Modified: 1/27/2012 at 10:56:59 AM

FID method for Alcohol analysis back column

Method Audit Trail

Operator :
Date : 12/19/1995 12:05:58 PM
Change Info:

Instrument method
Back

Operator :
Date : 1/24/1996 11:14:29 AM
Change Info:

Operator :
Date : 1/24/1996 11:15:18 AM
Change Info:

Operator :
Date : 1/24/1996 11:21:15 AM
Change Info:

Operator :
Date : 10/26/2011 8:37:54 AM
Change Info: This method was created at 10/26/2011 8:37:54 AM and based on method C:\CHEM32\1\METHODS\FID_TCD.M

Operator :
Date : 10/26/2011 8:38:12 AM
Change Info: Alcohol method created from fid_tcd template

Operator :
Date : 10/26/2011 8:47:12 AM
Change Info: Adjusted MPS settings

Operator :
Date : 10/26/2011 9:54:02 AM
Change Info: Adjusted MPS params

Operator :
Date : 10/26/2011 9:56:07 AM
Change Info: updated oven program

Operator :
Date : 10/26/2011 11:19:22 AM
Change Info: test of gerstel params

Operator :
Date : 10/26/2011 12:40:26 PM
Change Info:

Operator :

method: C:\CHEM32\1\METHODS\ALCOHOLS_BACK.M
Modified on: 1/27/2012 at 10:56:59 AM
Date : 10/26/2011 1:45:28 PM
Change Info: adjusted makeup flow

Operator :
Date : 10/27/2011 7:17:33 AM
Change Info: changed oven eq time to 1min

Operator :
Date : 10/27/2011 7:20:24 AM
Change Info: updated injector params

Operator :
Date : 10/27/2011 8:18:30 AM
Change Info: adjusted oven params

Operator :
Date : 10/27/2011 9:22:01 AM
Change Info: added new column

Operator :
Date : 10/27/2011 9:54:36 AM
Change Info: adjusted oven params

Operator :
Date : 10/27/2011 10:05:35 AM
Change Info: adjusted oven program

Operator :
Date : 10/27/2011 10:49:19 AM
Change Info: adjusted oven program

Operator :
Date : 11/1/2011 7:08:52 AM
Change Info: Changed inj location

Operator :
Date : 11/3/2011 7:53:50 AM
Change Info: This method was created at 11/3/2011 7:53:50 AM and based on
method C:\CHEM32\1\METHODS\ALCOHOLS.M

Operator :
Date : 11/3/2011 7:53:58 AM
Change Info: changed inj location

Operator :
Date : 11/22/2011 8:36:26 AM
Change Info: updated instrument params

Operator :
Date : 11/25/2011 10:17:19 AM
Change Info: Method saved. User comment: "updated to new chemstation version"

Operator : ACM
Date : 1/6/2012 7:50:39 AM
Change Info: Method saved. User comment: ""

Operator : ACM
Date : 1/6/2012 7:52:22 AM
Change Info: Method saved. User comment: ""

method: C:\CHEM32\1\METHODS\ALCOHOLS_BACK.M
Modified on: 1/27/2012 at 10:56:59 AM
Operator : ACM
Date : 1/6/2012 8:29:35 AM
Change Info: Method saved. User comment: ""

Operator : ACM
Date : 1/6/2012 9:09:57 AM
Change Info: Method saved. User comment: ""

Operator : ACM
Date : 1/10/2012 10:08:15 AM
Change Info: Method saved. User comment: ""

Operator : ACM
Date : 1/25/2012 7:52:28 AM
Change Info: Method saved. User comment: "updated to conform to instument changes."

Operator : ACM
Date : 1/25/2012 2:32:21 PM
Change Info: Method saved. User comment: ""

Operator : ACM
Date : 1/25/2012 3:09:08 PM
Change Info: Method saved. User comment: ""

Operator : ACM
Date : 1/26/2012 9:40:50 AM
Change Info: Method saved. User comment: ""

Operator : ACM
Date : 1/27/2012 9:44:01 AM
Change Info: Method saved. User comment: ""

Operator : ACM
Date : 1/27/2012 9:45:12 AM
Change Info: Method saved. User comment: ""

Operator : ACM
Date : 1/27/2012 10:27:33 AM
Change Info: Method saved. User comment: ""

Operator : ACM
Date : 1/27/2012 10:41:25 AM
Change Info: Method saved. User comment: ""

Operator : ACM
Date : 1/27/2012 10:56:59 AM
Change Info: Method saved. User comment: ""

Acm

Run Time Checklist

Pre-Run Cmd/Macro: off

Data Acquisition: on

Standard Data Analysis: on

method: C:\CHEM32\1\METHODS\ALCOHOLS_BACK.M
Modified on: 1/27/2012 at 10:56:59 AM
Customized Data Analysis: off

Save GLP Data: off

Post-Run Cmd/Macro: off

Save Method with Data: off

Injection Source and Location

Injection Source: Manual – inj source is gerstel MPS autosampler

Injection Location: Back

AV
1-27-12

==========

6890 GC METHOD

==========

OVEN
Initial temp: 60 'C (On)
Initial time: 1.00 min
Ramps:

#	Rate	Final temp	Final time
1	3.00	86	0.00
2	0.0(Off)		

Post temp: 60 'C
Post time: 0.00 min
Run time: 9.67 min

Maximum temp: 200 'C
Equilibration time: 1.00 min

FRONT INLET (SPLIT/SPLITLESS)
Mode: Splitless
Initial temp: 230 'C (On)
Pressure: 3.20 psi (On)
Purge flow: 50.0 mL/min
Purge time: 0.30 min
Total flow: 56.7 mL/min
Gas saver: Off
Gas type: Helium

BACK INLET (SPLIT/SPLITLESS)
Mode: Splitless
Initial temp: 230 'C (On)
Pressure: 3.21 psi (On)
Purge flow: 50.0 mL/min
Purge time: 0.30 min
Total flow: 57.1 mL/min
Gas saver: Off
Gas type: Helium

COLUMN 1
Capillary Column
Model Number: Restek Stabilwax
Stabilwax
Max temperature: 260 'C
Nominal length: 30.0 m
Nominal diameter: 530.00 um
Nominal film thickness: 0.50 um
Mode: constant pressure
Pressure: 3.20 psi
Nominal initial flow: 4.0 mL/min
Average velocity: 30 cm/sec
Inlet: Front Inlet
Outlet: Front Detector
Outlet pressure: ambient

COLUMN 2
Capillary Column
Model Number: Restek RTX-1701
RTX-1701
Max temperature: 270 'C
Nominal length: 30.0 m
Nominal diameter: 530.00 um
Nominal film thickness: 1.00 um
Mode: constant flow
Initial flow: 4.0 mL/min
Nominal init pressure: 3.21 psi
Average velocity: 31 cm/sec
Inlet: Back Inlet
Outlet: Back Detector
Outlet pressure: ambient

FRONT DETECTOR (FID)
Temperature: 250 'C (On)
Hydrogen flow: 40.0 mL/min (On)

BACK DETECTOR (FID)
Temperature: 250 'C (On)
Hydrogen flow: 40.0 mL/min (On)

method: C:\CHEM32\1\METHODS\ALCOHOLS_BACK.M
Modified on: 1/27/2012 at 10:56:59 AM

Air flow: 450.0 mL/min (On)
Mode: Constant column+makeup flow
Combined flow: 35.0 mL/min
Makeup flow: On
Makeup Gas Type: Nitrogen
Flame: On
Electrometer: On
Lit offset: 2.0

Air flow: 450.0 mL/min (On)
Mode: Constant column+makeup flow
Combined flow: 35.0 mL/min
Makeup flow: On
Makeup Gas Type: Nitrogen
Flame: On
Electrometer: On
Lit offset: 2.0

SIGNAL 1
Data rate: 20 Hz
Type: front detector
Save Data: Off
Zero: 0.0 (Off)
Range: 0
Fast Peaks: Off
Attenuation: 0

SIGNAL 2
Data rate: 20 Hz
Type: back detector
Save Data: On
Zero: 0.0 (Off)
Range: 0
Fast Peaks: Off
Attenuation: 0

COLUMN COMP 1
Derive from front detector

COLUMN COMP 2
Derive from back detector

POST RUN
Post Time: 0.00 min

TIME TABLE

Time	Specifier	Parameter & Setpoint

GC Injector

Front Injector:
No parameters specified

Back Injector:
No parameters specified

method: C:\CHEM32\1\METHODS\ALCOHOLS_BACK.M
Modified on: 1/27/2012 at 10:56:59 AM

The Data Analysis Parameters of the used Method are :

Ar

Calibration Table

Alcohols

Calib. Data Modified : Friday, January 27, 2012 3:24:18 PM

Rel. Reference Window : 0.000 %
Abs. Reference Window : 0.030 min
Rel. Non-ref. Window : 0.000 %
Abs. Non-ref. Window : 0.030 min
Uncalibrated Peaks : not reported
Partial Calibration : Yes, identified peaks are recalibrated
Correct All Ret. Times: No, only for identified peaks

Curve Type : Linear
Origin : Ignored
Weight : Equal

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

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

Signal 1: FID1 A,
Signal 2: FID2 B,

RetTime [min]	Sig	Lvl	Amount [ug/mL]	Area	Amt/Area	Ref	Grp	Name
2.219	2	1	10.00000	24.64363	4.05784e-1			Methanol
		2	25.00000	63.61002	3.93020e-1			
		3	50.00000	140.18854	3.56663e-1			
		4	100.00000	229.83772	4.35090e-1			
		5	250.00000	615.98071	4.05857e-1			
		6	500.00000	1252.00574	3.99359e-1			
2.422	2	1	10.00000	44.15556	2.26472e-1			Ethanol
		2	25.00000	114.21368	2.18888e-1			
		3	50.00000	254.56573	1.96413e-1			
		4	100.00000	441.58127	2.26459e-1			
		5	250.00000	1116.84656	2.23845e-1			
		6	500.00000	2238.63184	2.23351e-1			
3.079	2	1	10.00000	49.19247	2.03283e-1			1-Propanol
		2	25.00000	128.37985	1.94735e-1			
		3	50.00000	294.01611	1.70059e-1			
		4	100.00000	496.73080	2.01316e-1			
		5	250.00000	1296.98914	1.92754e-1			
		6	500.00000	2595.55200	1.92637e-1			
3.397	2	1	10.00000	48.28953	2.07084e-1			2-Butanol
		2	25.00000	126.54375	1.97560e-1			
		3	50.00000	295.72617	1.69075e-1			
		4	100.00000	497.21616	2.01120e-1			

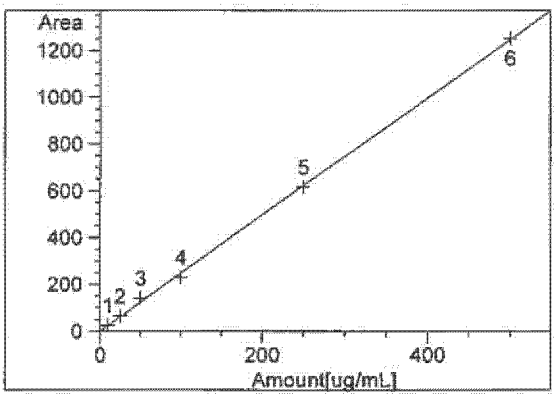
Method C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120127.M

RetTime [min]	Sig	Lvl	Amount [ug/mL]	Area	Amt/Area	Ref	Grp	Name
		5	250.00000	1311.43396	1.90631e-1			
		6	500.00000	2616.18872	1.91118e-1			
4.399	2	1	10.00000	51.01756	1.96011e-1			1-Butanol
		2	25.00000	131.78981	1.89696e-1			
		3	50.00000	314.21701	1.59126e-1			
		4	100.00000	525.17029	1.90414e-1			
		5	250.00000	1395.14221	1.79193e-1			
		6	500.00000	2781.46533	1.79761e-1			

Peak Sum Table

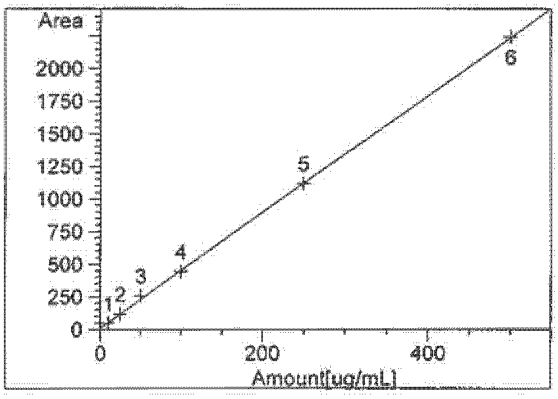
No Entries in table

Calibration Curves

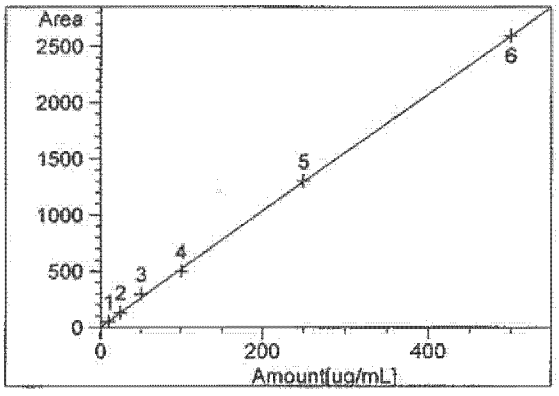


Methanol at exp. RT: 2.219
FID2 B,
Correlation: 0.99969
Residual Std. Dev.: 13.22794
Formula: y = mx + b
m: 2.49592
b: -1.23690
x: Amount
y: Area

ok checked w/ excel

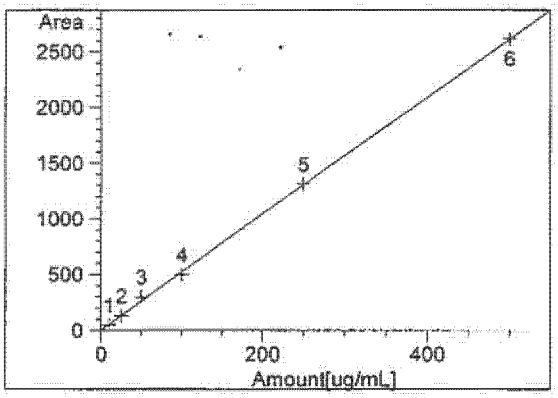


Ethanol at exp. RT: 2.422
FID2 B,
Correlation: 0.99988
Residual Std. Dev.: 14.45526
Formula: y = mx + b
m: 4.45867
b: 6.85646
x: Amount
y: Area

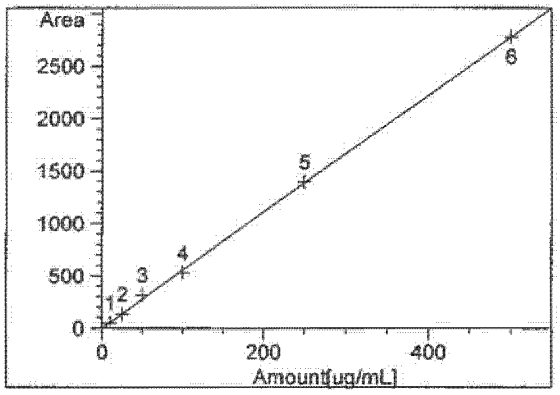


1-Propanol at exp. RT: 3.079
FID2 B,
Correlation: 0.99983
Residual Std. Dev.: 20.43211
Formula: y = mx + b
m: 5.18059
b: 2.83445
x: Amount
y: Area

An



2-Butanol at exp. RT: 3.397
FID2 B,
Correlation: 0.99981
Residual Std. Dev.: 21.68949
Formula: y = mx + b
m: 5.22851
b: 1.12331
x: Amount
y: Area



1-Butanol at exp. RT: 4.399
FID2 B,
Correlation: 0.99979
Residual Std. Dev.: 24.30219
Formula: y = mx + b
m: 5.56271
b: -3.89169e-1
x: Amount
y: Area

==========

Integration Events

Non signal specific Integration Events

Event	Value
Tangent Skim Mode	Standard
Tail Peak Skim Height Ratio	500000000.000
Front Peak Skim Height Ratio	5000000000.000
Skim Valley Ratio	5000000000.000
Baseline Correction	Classical
Peak to Valley Ratio	5000.000

Default Integration Event Table "Event"

Event	Value	Time
Initial Slope Sensitivity	1.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.700	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_TCD"

Event	Value	Time
Initial Slope Sensitivity	100.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_ADC"

Event	Value	Time
Initial Slope Sensitivity	20.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Not Used

A
1-27-12

DIM0213954 DIM0214326

Detector Default Integration Event Table "Event_ECD"

Event	Value	Time
Initial Slope Sensitivity	100.000	Initial
Initial Peak Width	0.080	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_NPD"

Event	Value	Time
Initial Slope Sensitivity	500.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_FPD"

Event	Value	Time
Initial Slope Sensitivity	50.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_uECD"

Event	Value	Time
Initial Slope Sensitivity	500.000	Initial
Initial Peak Width	0.080	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_FID"

Event	Value	Time
Initial Slope Sensitivity	1.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	10.000	Initial
Initial Height Reject	10.000	Initial
Initial Shoulders	OFF	Initial

Not Used

1-27-12

Signal Specific Integration Event Table "Event_FID1A"

Event	Value	Time
Initial Slope Sensitivity	0.679	Initial
Initial Peak Width	0.066	Initial
Initial Area Reject	0.698	Initial
Initial Height Reject	0.088	Initial
Initial Shoulders	OFF	Initial

Signal Specific Integration Event Table "Event_FID2B"

Event	Value	Time
Initial Slope Sensitivity	5.000	Initial
Initial Peak Width	0.076	Initial
Initial Area Reject	15.000	Initial
Initial Height Reject	4.000	Initial
Initial Shoulders	OFF	Initial

Apply Method's Manual Integration Events: No

Am

Calibration Table

Alcohols

Calib. Data Modified : 2/1/2012 7:43:27 AM

Copied from ALC_QUANT_BACK_120127.M, Retention time adjusted to compensate for slight shift. AM 2-1-12

Rel. Reference Window : 0.000 %
Abs. Reference Window : 0.030 min
Rel. Non-ref. Window : 0.000 %
Abs. Non-ref. Window : 0.030 min
Uncalibrated Peaks : not reported
Partial Calibration : Yes, identified peaks are recalibrated
Correct All Ret. Times: No, only for identified peaks

Curve Type : Linear
Origin : Ignored
Weight : Equal

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

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

Signal 1: FID1 A,
Signal 2: FID2 B,

RetTime [min]	Sig	Lvl	Amount [ug/mL]	Area	Amt/Area	Ref	Grp	Name
2.222	2	1	10.00000	24.64363	4.05784e-1			Methanol
		2	25.00000	63.61002	3.93020e-1			
		3	50.00000	140.18854	3.56663e-1			
		4	100.00000	229.83772	4.35090e-1			
		5	250.00000	615.98071	4.05857e-1			
		6	500.00000	1252.00574	3.99359e-1			
2.430	2	1	10.00000	44.15556	2.26472e-1			Ethanol
		2	25.00000	114.21368	2.18888e-1			
		3	50.00000	254.56573	1.96413e-1			
		4	100.00000	441.58127	2.26459e-1			
		5	250.00000	1116.84656	2.23845e-1			
		6	500.00000	2238.63184	2.23351e-1			
3.087	2	1	10.00000	49.19247	2.03283e-1			1-Propanol
		2	25.00000	128.37985	1.94735e-1			
		3	50.00000	294.01611	1.70059e-1			
		4	100.00000	496.73080	2.01316e-1			
		5	250.00000	1296.98914	1.92754e-1			
		6	500.00000	2595.55200	1.92637e-1			
3.405	2	1	10.00000	48.28953	2.07084e-1			2-Butanol
		2	25.00000	126.54375	1.97560e-1			
		3	50.00000	295.72617	1.69075e-1			
		4	100.00000	497.21616	2.01120e-1			

Method C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120131.M

RetTime [min]	Sig	Lvl	Amount [ug/mL]	Area	Amt/Area	Ref	Grp	Name
		5	250.00000	1311.43396	1.90631e-1			
		6	500.00000	2616.18872	1.91118e-1			
4.404	2	1	10.00000	51.01756	1.96011e-1			1-Butanol
		2	25.00000	131.78981	1.89696e-1			
		3	50.00000	314.21701	1.59126e-1			
		4	100.00000	525.17029	1.90414e-1			
		5	250.00000	1395.14221	1.79193e-1			
		6	500.00000	2781.46533	1.79761e-1			

Peak Sum Table

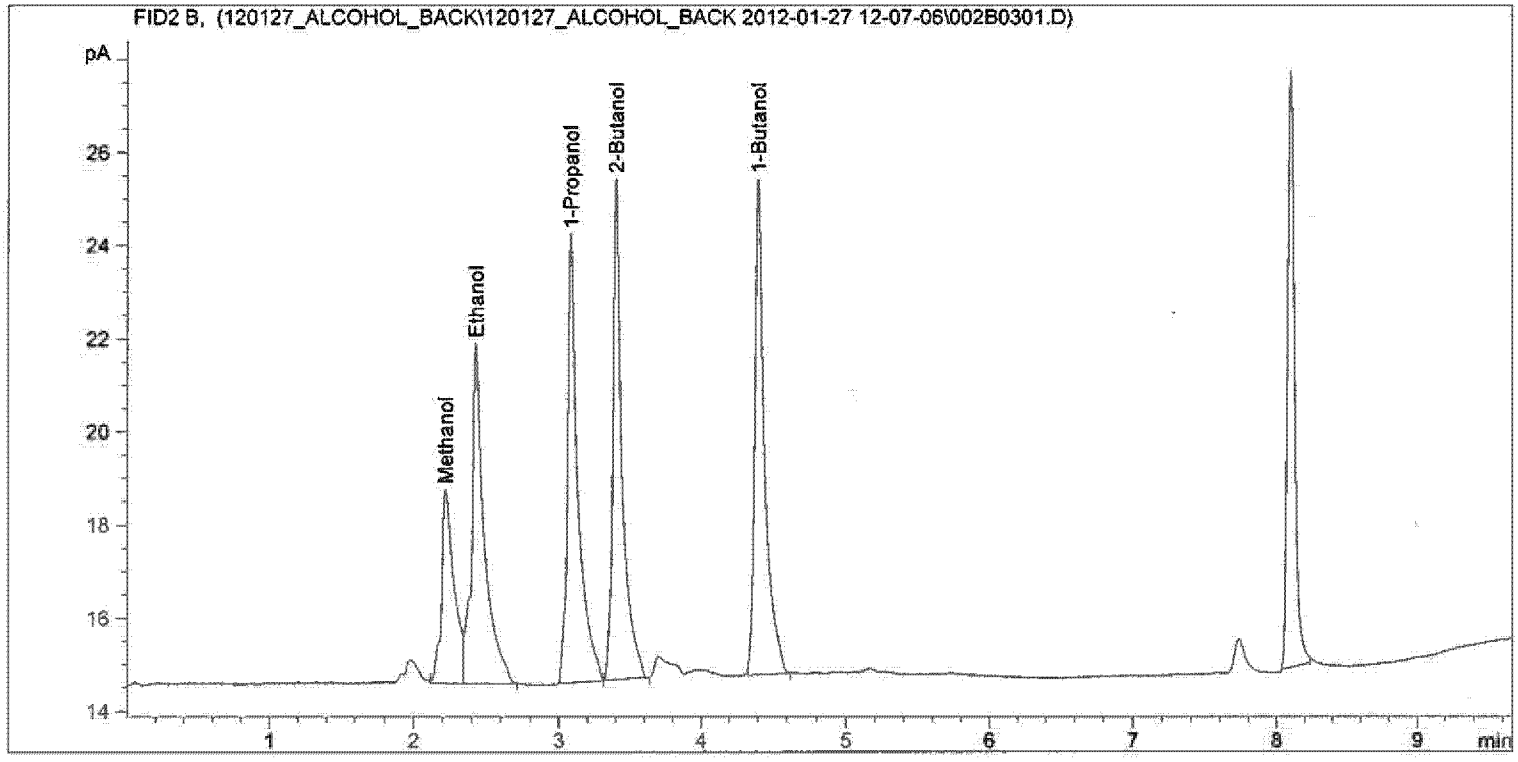
No Entries in table

Am

Data File C:\CHEM32\...127_ALCOHOL_BACK\120127_ALCOHOL_BACK 2012-01-27 12-07-06\002B0301.D
Sample Name: Cal 1

Acq. Operator	: ACM	Seq. Line :	3
Acq. Instrument	: AG3-6890N	Location :	Vial 2
Injection Date	: 1/27/2012 12:37:34 PM	Inj :	1
		Inj Volume :	0.8 µl
Acq. Method	: C:\CHEM32\1\DATA\120127_ALCOHOL_BACK\120127_ALCOHOL_BACK 2012-01-27 12-07-06\ALCOHOLS_BACK.M		
Last changed	: 1/27/2012 10:56:59 AM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120127.M		
Last changed	: 1/27/2012 3:25:45 PM by ACM		
Method Info	: FID method for Alcohol analysis		

Sample Info : ALCal1-111122-ACM



External Standard Report

Sorted By : Signal
Calib. Data Modified : Friday, January 27, 2012 3:24:18 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

ACM

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.221	VV	24.64363	4.20763e-1	10.36912		Methanol
2.428	VB	44.15556	1.89456e-1	8.36552		Ethanol
3.085	BV	49.19247	1.81906e-1	8.94840		1-Propanol

ok checked w/ excel

Data File C:\CHEM32\...127_ALCOHOL_BACK\120127_ALCOHOL_BACK 2012-01-27 12-07-06\002B0301.D
Sample Name: Cal 1

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
3.403	VB	48.28953	1.86810e-1	9.02096		2-Butanol
4.402	BB	51.01756	1.81140e-1	9.24130		1-Butanol

Totals : 45.94531

*** End of Report ***

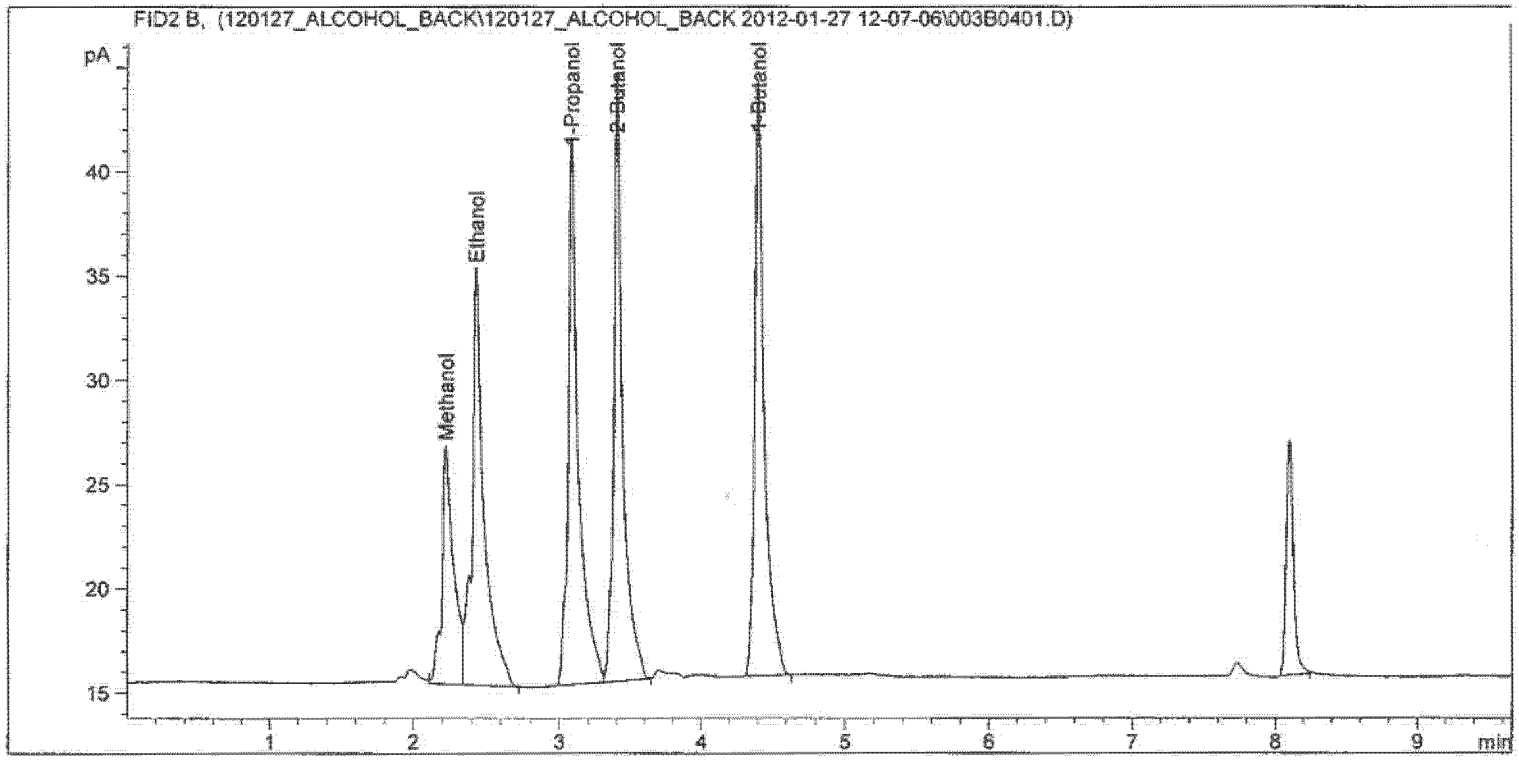
ACM

Data File C:\CHEM32\...127_ALCOHOL_BACK\120127_ALCOHOL_BACK 2012-01-27 12-07-06\003B0401.D
Sample Name: Cal 2

Acq. Operator	: ACM	Seq. Line :	4
Acq. Instrument	: AG3-6890N	Location :	Vial 3
Injection Date	: 1/27/2012 12:51:18 PM	Inj :	1
		Inj Volume :	0.8 µl

Acq. Method : C:\CHEM32\1\DATA\120127_ALCOHOL_BACK\120127_ALCOHOL_BACK 2012-01-27 12-07-06\ALCOHOLS_BACK.M
Last changed : 1/27/2012 10:56:59 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120127.M
Last changed : 1/27/2012 3:25:45 PM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : ALCal2-111122-ACM



External Standard Report

Sorted By : Signal
Calib. Data Modified : Friday, January 27, 2012 3:24:18 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

ACM

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.224	VV	63.61002	4.08444e-1	25.98114		Methanol
2.432	VB	114.21368	2.10818e-1	24.07831		Ethanol
3.089	BV	128.37985	1.88766e-1	24.23379		1-Propanol

transcribed w/ excel

Data File C:\CHEM32\...127_ALCOHOL_BACK\120127_ALCOHOL_BACK 2012-01-27 12-07-06\003B0401.D
Sample Name: Cal 2

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
3.406	VB	126.54375	1.89561e-1	23.98779		2-Butanol
4.404	BB	131.78981	1.80299e-1	23.76160		1-Butanol

Totals : 122.04263

*** End of Report ***

Acm

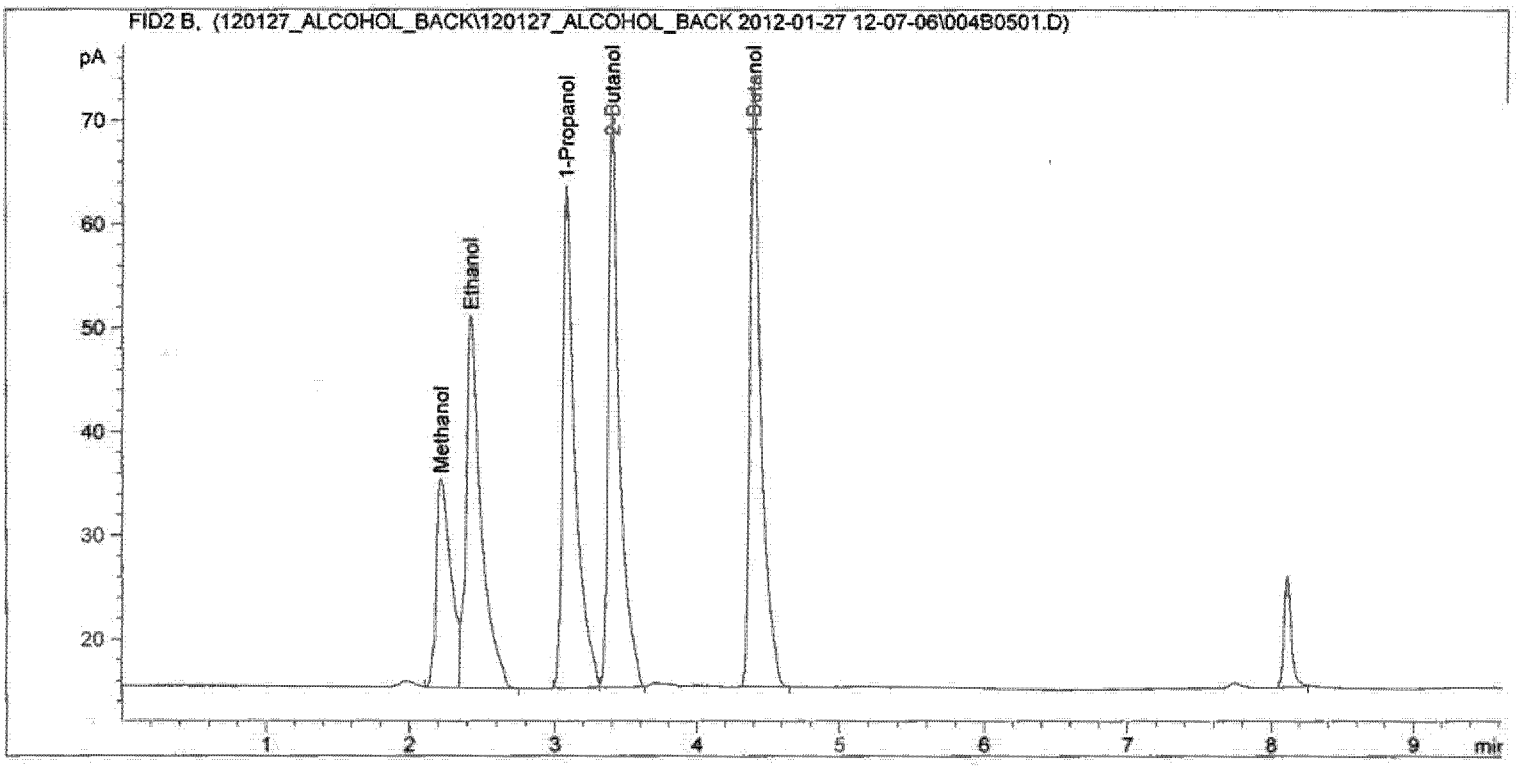
Data File C:\CHEM32\1\DATA\120127_ALCOHOL_BACK\...

Sample Name: Cal 3

Acq. Operator	: ACM	Seq. Line :	5
Acq. Instrument	: AG3-6890N	Location :	Vial 4
Injection Date	: 1/27/2012 1:05:03 PM	Inj :	1
		Inj Volume :	0.8 µl

Acq. Method : C:\CHEM32\1\DATA\120127_ALCOHOL_BACK\120127_ALCOHOL_BACK 2012-01-27 12-07-06\ALCOHOLS_BACK.M
Last changed : 1/27/2012 10:56:59 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120127.M
Last changed : 1/27/2012 3:25:45 PM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : ALCal3-111122-ACM



External Standard Report

Sorted By : Signal
Calib. Data Modified : Friday, January 27, 2012 3:24:18 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Acm

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.217	VV	140.18854	4.04188e-1	56.66259		Methanol
2.422	VB	254.56573	2.18241e-1	55.55677		Ethanol
3.079	BV	294.01611	1.91167e-1	56.20625		1-Propanol

Data File C:\CHEM32\...127_ALCOHOL_BACK\120127_ALCOHOL_BACK 2012-01-27 12-07-06\004B0501.D
Sample Name: Cal 3

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
3.398	VV	295.72617	1.90533e-1	56.34545		2-Butanol
4.399	BB	314.21701	1.79991e-1	56.55624		1-Butanol

Totals : 281.32730

*** End of Report ***

ACM

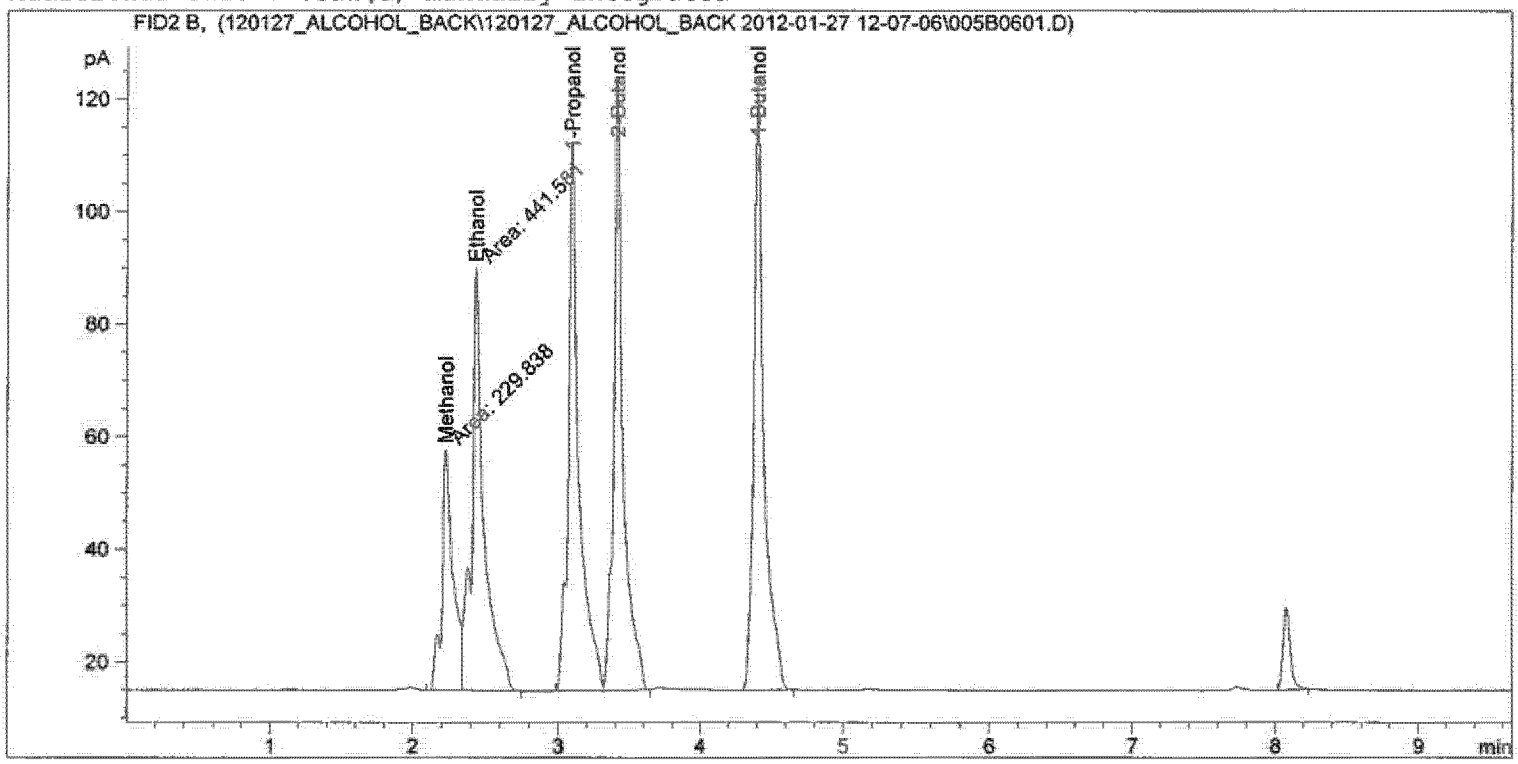
Data File C:\CHEM32\...127_ALCOHOL_BACK\120127_ALCOHOL_BACK 2012-01-27 12-07-06\005B0601.D
Sample Name: Cal 4

Acq. Operator	: ACM	Seq. Line :	6
Acq. Instrument	: AG3-6890N	Location :	Vial 5
Injection Date	: 1/27/2012 1:18:47 PM	Inj :	1
		Inj Volume :	0.8 µl

Acq. Method : C:\CHEM32\1\DATA\120127_ALCOHOL_BACK\120127_ALCOHOL_BACK 2012-01-27 12-07-06\ALCOHOLS_BACK.M
Last changed : 1/27/2012 10:56:59 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120127.M
Last changed : 1/27/2012 3:25:45 PM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : ALCal4-111122-ACM

Additional Info : Peak(s) manually integrated



External Standard Report

Sorted By : Signal
Calib. Data Modified : Friday, January 27, 2012 3:24:18 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.227	MF	229.83772	4.02810e-1	92.58084		Methanol
2.435	FM	441.58127	2.20800e-1	97.50102		Ethanol

Data File C:\CHEM32\...127_ALCOHOL_BACK\120127_ALCOHOL_BACK 2012-01-27 12-07-06\005B0601.D
Sample Name: Cal 4

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
3.093	BV	496.73080	1.91927e-1	95.33589		1-Propanol
3.409	VV	497.21616	1.90827e-1	94.88223		2-Butanol
4.405	BB	525.17029	1.79902e-1	94.47897		1-Butanol
Totals :				474.77895		

*** End of Report ***

AM

Cal 4 - MFI

AG3-6890N (offline): Data Analysis

File Method Sequence Graphics Integration Calibration Report Batch View RTLock RTSearch Abort Help

Signals Methods ALC_QUANT_BACK_120127.M

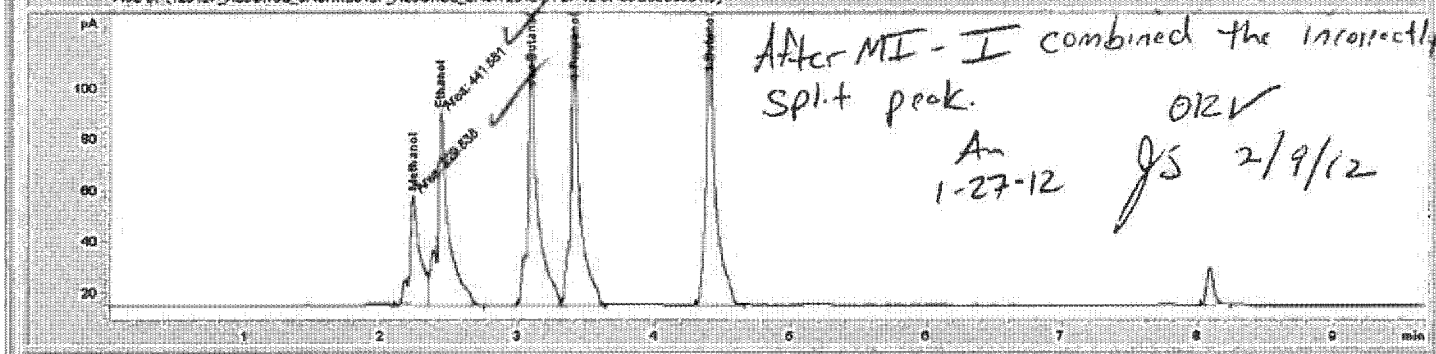
Use current method | Seq | Ready/Reprocess Data Mode

Line	Inj	Vial	Sample Name	Method Name	Sample Type	Cal Level	Sample Info	Man...	ISTD Amount	Multiplier	Dilution	Data File	Sa
1	1	Vial 1	H2O	ALCOHOLS_BACK.M	Sample		water	-	0	1	1	00180101.D	0
2	1	Vial 1	IBL1	ALCOHOLS_BACK.M	Sample		water	-	0	1	1	00180201.D	0
3	1	Vial 2	Cal 1	ALCOHOLS_BACK.M	Calibration	1	ALCal1-11112...	-	0	1	1	00280301.D	0
4	1	Vial 3	Cal 2	ALCOHOLS_BACK.M	Calibration	2	ALCal2-11112...	-	0	1	1	00380401.D	0
5	1	Vial 4	Cal 3	ALCOHOLS_BACK.M	Calibration	3	ALCal3-11112...	-	0	1	1	00480501.D	0
6	1	Vial 5	Cal 4	ALCOHOLS_BACK.M	Calibration	4	ALCal4-1111...	-	0	1	1	00580601.D	0
7	1	Vial 6	Cal 5	ALCOHOLS_BACK.M	Calibration	5	ALCal5-11112...	-	0	1	1	00680701.D	0
8	1	Vial 7	Cal 6	ALCOHOLS_BACK.M	Calibration	6	ALCal6-11112...	-	0	1	1	00780801.D	0
9	1	Vial 1	H2O	ALCOHOLS_BACK.M	Sample		water	-	0	1	1	00180901.D	0
10	1	Vial 1	IBL2	ALCOHOLS_BACK.M	Sample		water	-	0	1	1	00181001.D	0
11	1	Vial 8	SCV	ALCOHOLS_BACK.M	Sample		ALSCV-11112...	-	0	1	1	00881101.D	0
12	1	Vial 1	H2O	ALCOHOLS_BACK.M	Sample		water	-	0	1	1	00181201.D	0

Integration | Calibration | Signal

Report: Short | FID2 B, (120127...06\00580601.D)

FID2 B, (120127_ALCOHOL_BACK\120127_ALCOHOL_BACK 2012-01-27 12-07-06\00580601.D)



After MFI - I combined the incorrectly split peak.
Am 1-27-12
012 ✓
JS 2/9/12

File Information	
GC File	00580601.D
File Path	C:\CHEM32\1\DATA\120127_ALCOHOL_BACK\120127_ALCOHO
Date	27-Jan-12, 13:18:47
Sample	Cal 4
Sample Info	ALCal4-111122-ACM
Barcode	
Operator	ACM
Method	ALCOHOLS_BACK.M

#	Time	Area	Height	Width	Area%	Symmetry
1	2.227	229.8	42.8	0.0894	10.248	0.499
2	2.435	441.6	75.1	0.0979	19.689	0.563
3	3.093	496.7	97.1	0.0697	22.148	0.494
4	3.409	497.2	109	0.0632	22.170	0.55
5	4.405	525.2	107.9	0.0678	23.416	0.56
6	8.082	52.2	14.7	0.0545	2.328	0.774

Integration done.

Start | untitled - Paint | AG3-6890N (online): Met... | AG3-6890N (offline): ... | Minesweeper | 3:23 PM

DIM0213954

DIM0214352

Cal4 - MI1

AG3-6890N (offline): Data Analysis

File Method Sequence Graphics Integration Calibration Report Batch View RTLock RTSearch Abort Help

Signals Methods ALC_QUANT_BACK_120127.M

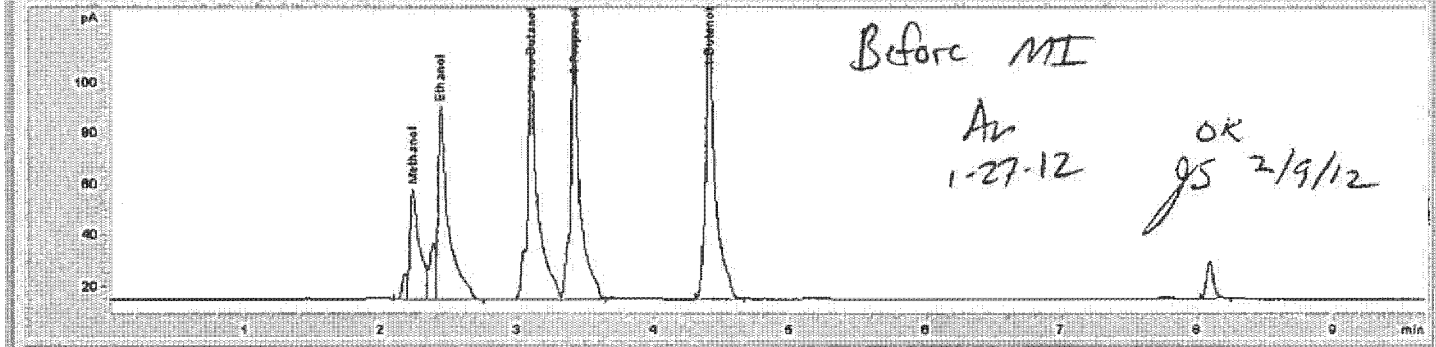
Use current method | Ready/Reprocess Data Mode

Line	Inj	Vial	Sample Name	Method Name	Sample Type	Cal Level	Sample Info	Man...	ISTD Amount	Multiplier	Dilution	Data File	Sa
1	1	Vial 1	H2O	ALCOHOLS_BACK.M	Sample		water	–	0	1	1	00180101.D	0
2	1	Vial 1	IBL1	ALCOHOLS_BACK.M	Sample		water	–	0	1	1	00180201.D	0
3	1	Vial 2	Cal 1	ALCOHOLS_BACK.M	Calibration	1	ALCal1-11112...	–	0	1	1	00280301.D	0
4	1	Vial 3	Cal 2	ALCOHOLS_BACK.M	Calibration	2	ALCal2-11112...	–	0	1	1	00380401.D	0
5	1	Vial 4	Cal 3	ALCOHOLS_BACK.M	Calibration	3	ALCal3-11112...	–	0	1	1	00480501.D	0
6	1	Vial 5	Cal 4	ALCOHOLS_BACK.M	Calibration	4	ALCal4-1111...	–	0	1	1	00580601.D	0
7	1	Vial 6	Cal 5	ALCOHOLS_BACK.M	Calibration	5	ALCal5-11112...	–	0	1	1	00680701.D	0
8	1	Vial 7	Cal 6	ALCOHOLS_BACK.M	Calibration	6	ALCal6-11112...	–	0	1	1	00780801.D	0
9	1	Vial 1	H2O	ALCOHOLS_BACK.M	Sample		water	–	0	1	1	00180901.D	0
10	1	Vial 1	IBL2	ALCOHOLS_BACK.M	Sample		water	–	0	1	1	00181001.D	0
11	1	Vial 8	SCV	ALCOHOLS_BACK.M	Sample		ALSCV-11112...	–	0	1	1	00881101.D	0
12	1	Vial 1	H2O	ALCOHOLS_BACK.M	Sample		water	–	0	1	1	00181201.D	0

Integration Calibration Signal

Report: Short | FID2 B, (120127...06\00580601.D)

FID2 B, (120127_ALCOHOL_BACK\120127_ALCOHOL_BACK 2012-01-27,12-07-08\00580601.D)



Before MI

Ar 1-27-12

OK gs 2/9/12

File Information	
GC-File	00580601.D
File Path	C:\CHEM32\1\DATA\120127_ALCOHOL_BACK\120127_ALCOHO
Date	27-Jan-12, 13:18:47
Sample	Cal 4
Sample Info	ALCal4-111122-ACM
Barcode	
Operator	ACM
Method	ALCOHOLS_BACK.M

#	Time	Area	Height	Width	Symmetry
1	2.172	23.9	9.9	0.0381	1.542
2	2.228	206.6	42.9	0.0682	0.359
3	2.38	63	21.9	0.0435	1.869
4	2.436	390.6	75.2	0.0651	0.315
5	3.093	496.7	97.1	0.0697	0.494
6	3.409	497.2	109	0.0632	0.55
7	4.405	525.2	107.9	0.0678	0.56
8	8.082	52.2	14.7	0.0545	0.774

Data Methods

Method and Run Co

Data Analysis

Report Layout

Start | untitled - Paint | AG3-6890N (online): Met... | AG3-6890N (offline): ... | Minesweeper | 3:22 PM

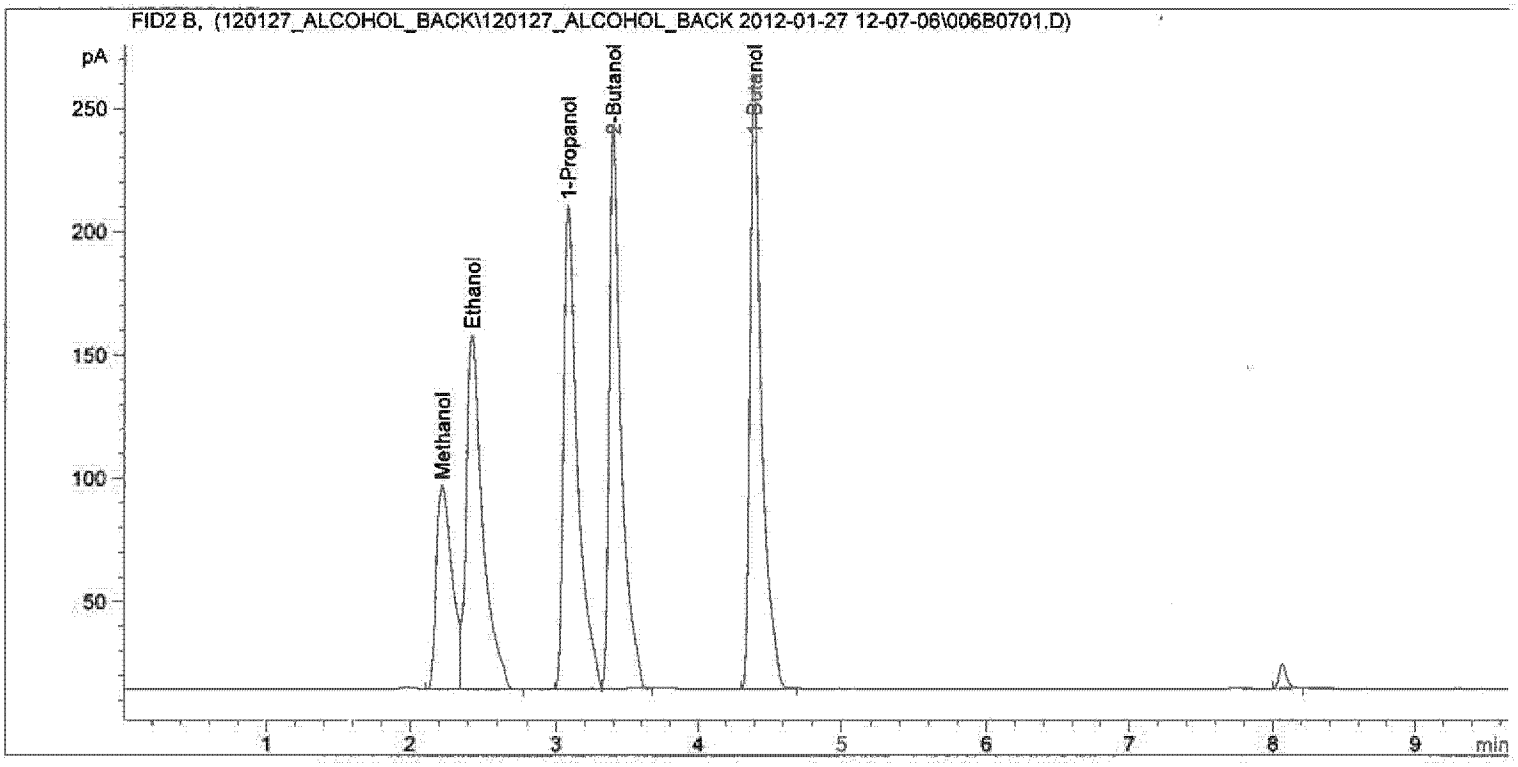
DIM0213954

DIM0214354

Data File C:\CHEM32\...127_ALCOHOL_BACK\120127_ALCOHOL_BACK 2012-01-27 12-07-06\006B0701.D
Sample Name: Cal 5

Acq. Operator	: ACM	Seq. Line :	7
Acq. Instrument	: AG3-6890N	Location :	Vial 6
Injection Date	: 1/27/2012 1:32:31 PM	Inj :	1
		Inj Volume :	0.8 µl
Acq. Method	: C:\CHEM32\1\DATA\120127_ALCOHOL_BACK\120127_ALCOHOL_BACK 2012-01-27 12-07-06\ALCOHOLS_BACK.M		
Last changed	: 1/27/2012 10:56:59 AM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120127.M		
Last changed	: 1/27/2012 3:25:45 PM by ACM		
Method Info	: FID method for Alcohol analysis		

Sample Info : ALCal5-111122-ACM



External Standard Report

Sorted By : Signal
Calib. Data Modified : Friday, January 27, 2012 3:24:18 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.222	VV	615.98071	4.01458e-1	247.29035		Methanol
2.424	VB	1116.84656	2.22905e-1	248.95098		Ethanol
3.082	BV	1296.98914	1.92606e-1	249.80825		1-Propanol

Data File C:\CHEM32\...127_ALCOHOL_BACK\120127_ALCOHOL_BACK 2012-01-27 12-07-06\006B0701.D
Sample Name: Cal 5

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
3.394	VB	1311.43396	1.91095e-1	250.60873		2-Butanol
4.393	BB	1395.14221	1.79819e-1	250.87241		1-Butanol

Totals : 1247.53072

*** End of Report ***

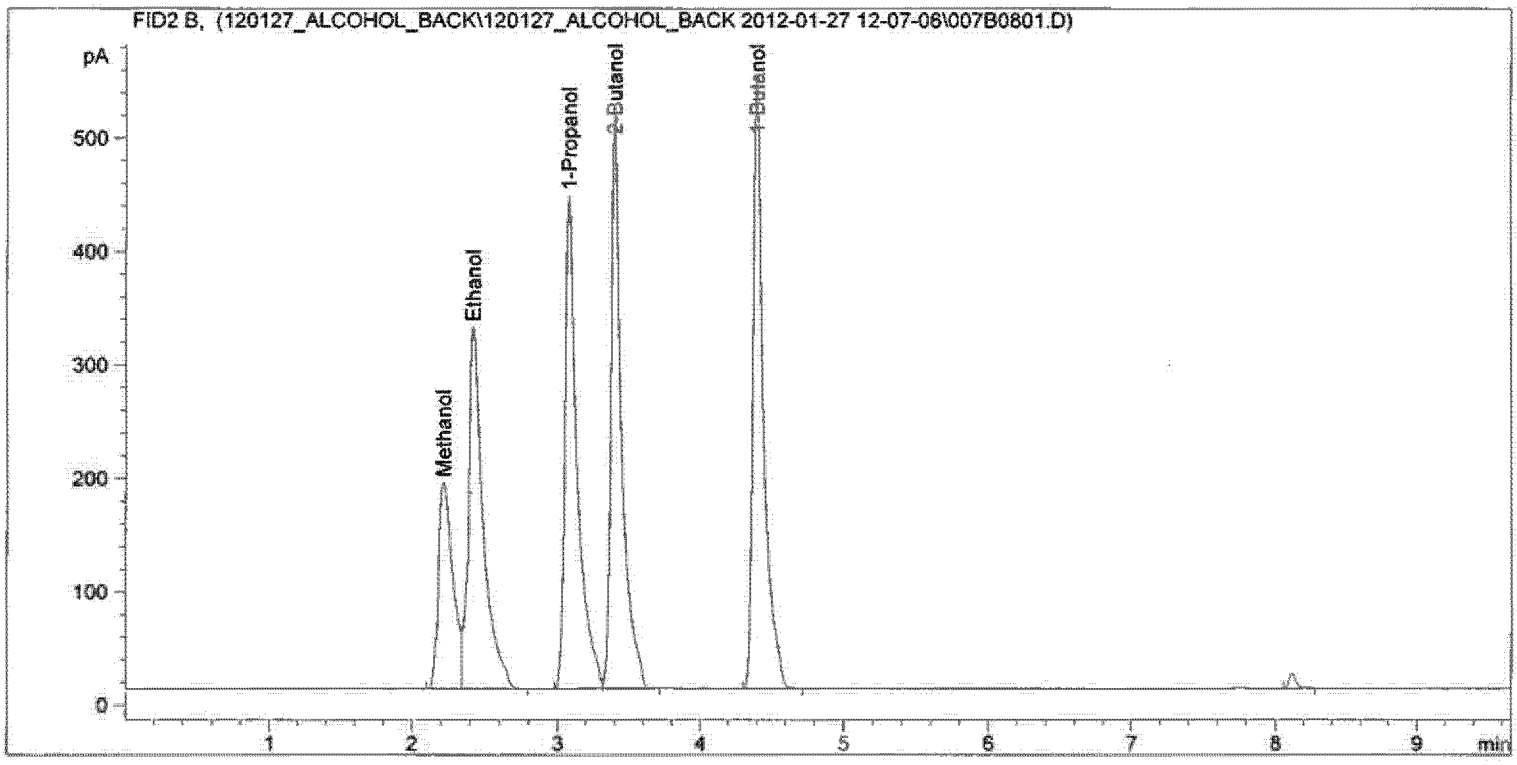
Am

Data File C:\CHEM32\...127_ALCOHOL_BACK\120127_ALCOHOL_BACK 2012-01-27 12-07-06\007B0801.D
Sample Name: Cal 6

Acq. Operator	: ACM	Seq. Line :	8
Acq. Instrument	: AG3-6890N	Location :	Vial 7
Injection Date	: 1/27/2012 1:46:15 PM	Inj :	1
		Inj Volume :	0.8 µl

Acq. Method : C:\CHEM32\1\DATA\120127_ALCOHOL_BACK\120127_ALCOHOL_BACK 2012-01-27 12-07-06\ALCOHOLS_BACK.M
Last changed : 1/27/2012 10:56:59 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120127.M
Last changed : 1/27/2012 3:25:45 PM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : ALCal6-111122-ACM



External Standard Report

Sorted By : Signal
Calib. Data Modified : Friday, January 27, 2012 3:24:18 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.219	VV	1252.00574	4.01049e-1	502.11596		Methanol
2.422	VB	2238.63184	2.23595e-1	500.54740		Ethanol
3.079	BV	2595.55200	1.92817e-1	500.46741		1-Propanol

Data File C:\CHEM32\...127_ALCOHOL_BACK\120127_ALCOHOL_BACK 2012-01-27 12-07-06\007B0801.D
Sample Name: Cal 6

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
3.397	VB	2616.18872	1.91177e-1	500.15484		2-Butanol
4.399	BB	2781.46533	1.79794e-1	500.08947		1-Butanol

Totals : 2503.37508

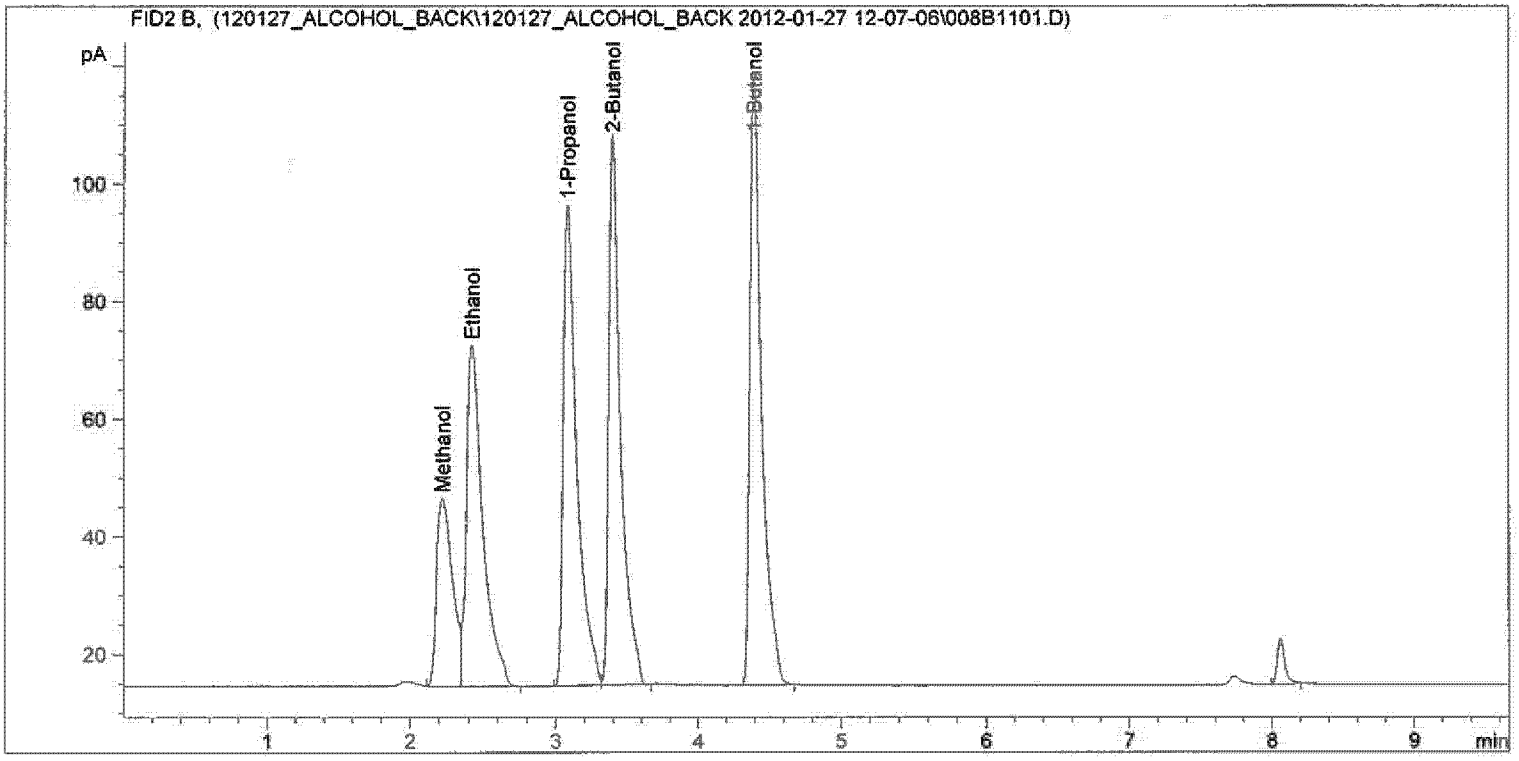
*** End of Report ***

Data File C:\CHEM32\...127_ALCOHOL_BACK\120127_ALCOHOL_BACK 2012-01-27 12-07-06\008B1101.D
Sample Name: SCV

Acq. Operator	: ACM	Seq. Line	: 11
Acq. Instrument	: AG3-6890N	Location	: Vial 8
Injection Date	: 1/27/2012 2:27:27 PM	Inj	: 1
		Inj Volume	: 0.8 µl

Acq. Method : C:\CHEM32\1\DATA\120127_ALCOHOL_BACK\120127_ALCOHOL_BACK 2012-01-27 12-07-06\ALCOHOLS_BACK.M
Last changed : 1/27/2012 10:56:59 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120127.M
Last changed : 1/27/2012 3:25:45 PM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : ALSCV-111122-ACM



External Standard Report

Sorted By : Signal
Calib. Data Modified : Friday, January 27, 2012 3:24:18 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%Diff
2.225	VV	240.36511	4.02715e-1	96.79867		Methanol	3.20
2.427	VB	451.03845	2.20873e-1	99.62210		Ethanol	0.378
3.083	BV	536.76306	1.92009e-1	103.06324		1-Propanol	3.06

Data File C:\CHEM32\...127_ALCOHOL_BACK\120127_ALCOHOL_BACK 2012-01-27 12-07-06\008B1101.D
Sample Name: SCV

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%D
3.396	VB	541.13885	1.90862e-1	103.28284		2-Butanol	3.28
4.395	BB	595.24792	1.79886e-1	107.07671		1-Butanol	7.08
Totals :				509.84357			

*** End of Report ***

All pass

DIM0213954 DIM0214366

Case File Contents

Alcohols

Alcohols by EPA 8015D

WO 1201013

Dimock Residential Groundwater

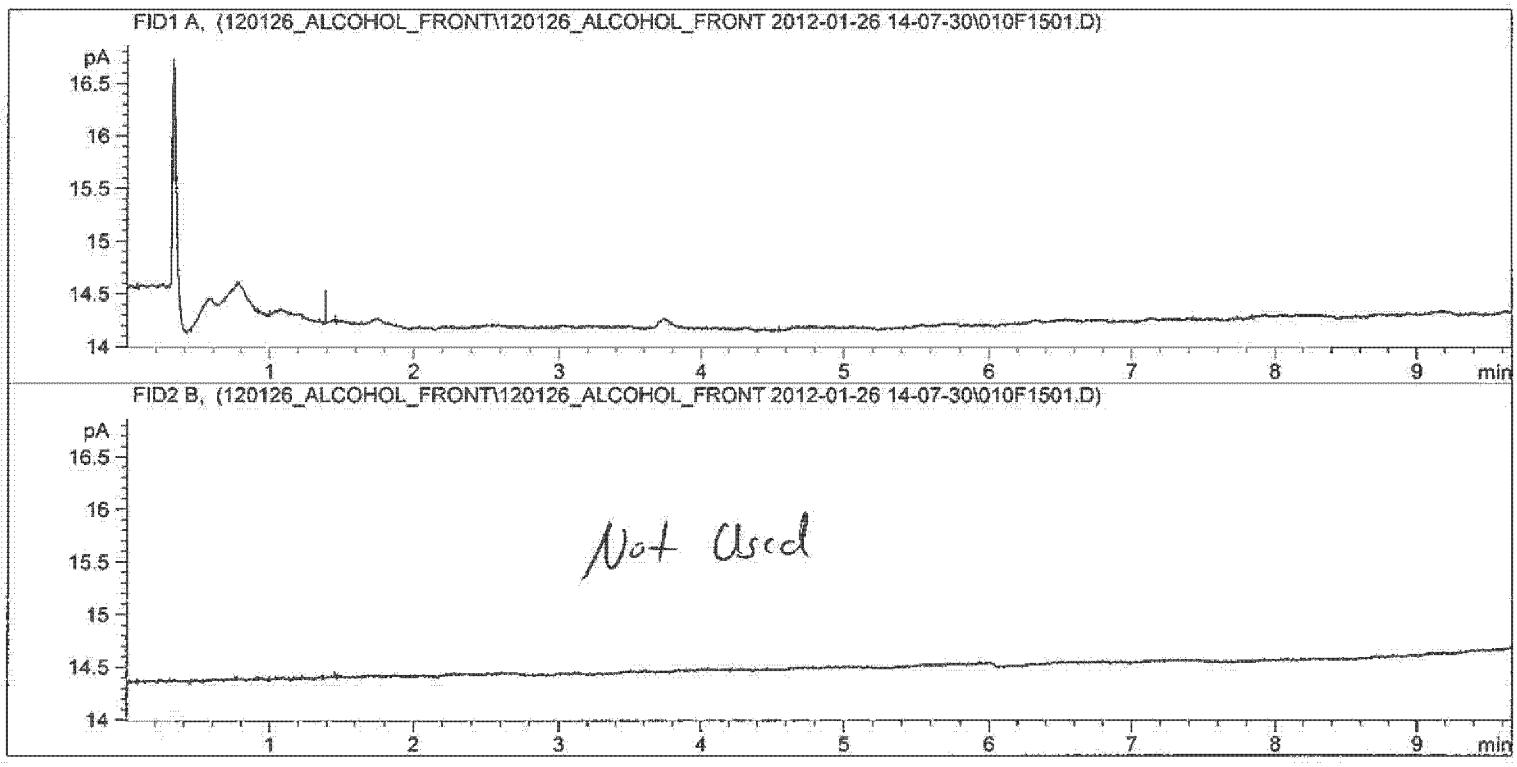
DAS R33907

Sample Data

Data File C:\CHEM32\...6_ALCOHOL_FRONT\120126_ALCOHOL_FRONT 2012-01-26 14-07-30\010F1501.D
Sample Name: 1201013-01

Acq. Operator	: ACM	Seq. Line	: 15
Acq. Instrument	: AG3-6890N	Location	: Vial 10
Injection Date	: 1/26/2012 5:23:49 PM	Inj	: 1
		Inj Volume	: 1 µl

Acq. Method : C:\CHEM32\1\DATA\120126_ALCOHOL_FRONT\120126_ALCOHOL_FRONT 2012-01-26 14-07-30\ALCOHOLS_FRONT.M
Last changed : 1/26/2012 1:39:57 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_120126.M
Last changed : 1/27/2012 8:22:15 AM by ACM
Method Info : FID method for Alcohol analysis



External Standard Report

Sorted By : Signal
Calib. Data Modified : 1/27/2012 8:21:45 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

N/D

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.517		-	-	-		Methanol
1.742		-	-	-		Ethanol
2.533		-	-	-		1-Propanol
2.763		-	-	-		sec-Butanol
4.781		-	-	-		1-Butanol

Am

Totals : 0.00000

Signal 2: FID2 B,

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==========

Area Percent Report

==========

Sorted By : Signal
Calib. Data Modified : 1/27/2012 8:21:45 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.517		0.0000	0.00000	0.00000	Methanol
2	1.742		0.0000	0.00000	0.00000	Ethanol
3	2.533		0.0000	0.00000	0.00000	1-Propanol
4	2.763		0.0000	0.00000	0.00000	sec-Butanol
5	4.781		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

Signal 2: FID2 B,

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

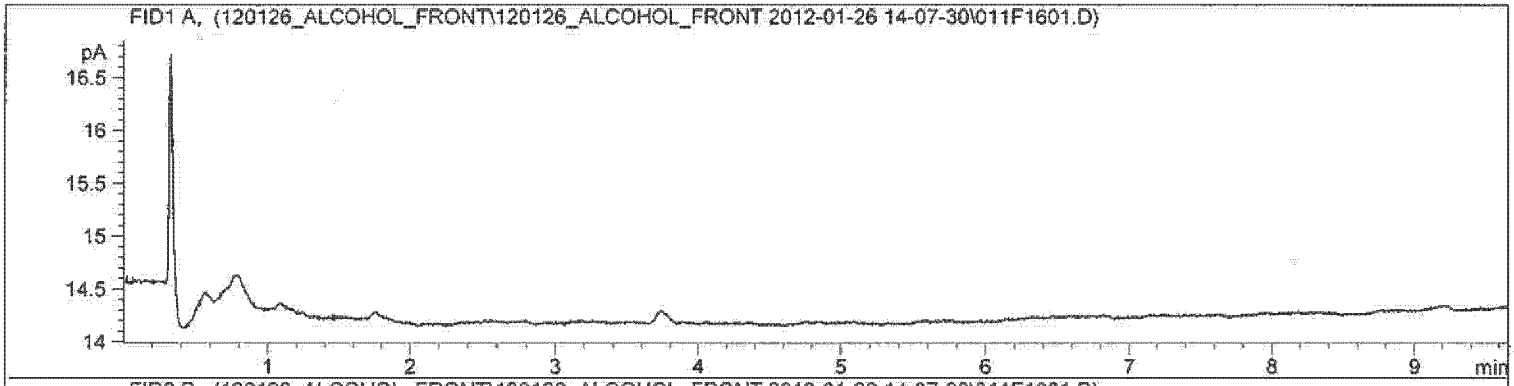
==========

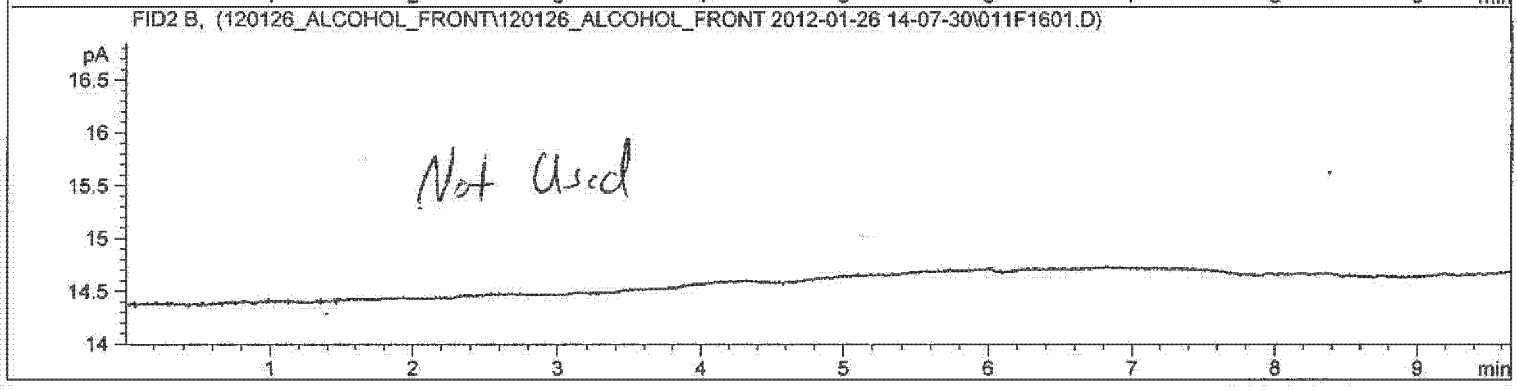
*** End of Report ***

Not Used
A
1-27-12

Data File C:\CHEM32\...6_ALCOHOL_FRONT\120126_ALCOHOL_FRONT 2012-01-26 14-07-30\011F1601.D
Sample Name: 1201013-03

Acq. Operator	: ACM	Seq. Line :	16
Acq. Instrument	: AG3-6890N	Location :	Vial 11
Injection Date	: 1/26/2012 5:37:39 PM	Inj :	1
		Inj Volume :	1 µl
Acq. Method	: C:\CHEM32\1\DATA\120126_ALCOHOL_FRONT\120126_ALCOHOL_FRONT 2012-01-26 14-07-30\ALCOHOLS_FRONT.M		
Last changed	: 1/26/2012 1:39:57 PM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC QUANT 120126.M		
Last changed	: 1/27/2012 8:22:15 AM by ACM		
Method Info	: FID method for Alcohol analysis		





External Standard Report

Sorted By : Signal
Calib. Data Modified : 1/27/2012 8:21:45 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

N/D

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.517		-	-	-		Methanol
1.742		-	-	-		Ethanol
2.533		-	-	-		1-Propanol
2.763		-	-	-		sec-Butanol
4.781		-	-	-		1-Butanol

AM

Totals : 0.00000

Signal 2: FID2 B,

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==========

Area Percent Report

==========

Sorted By : Signal
Calib. Data Modified : 1/27/2012 8:21:45 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.517		0.0000	0.00000	0.00000	Methanol
2	1.742		0.0000	0.00000	0.00000	Ethanol
3	2.533		0.0000	0.00000	0.00000	1-Propanol
4	2.763		0.0000	0.00000	0.00000	sec-Butanol
5	4.781		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

Signal 2: FID2 B,

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==========

*** End of Report ***

Not Used

Am

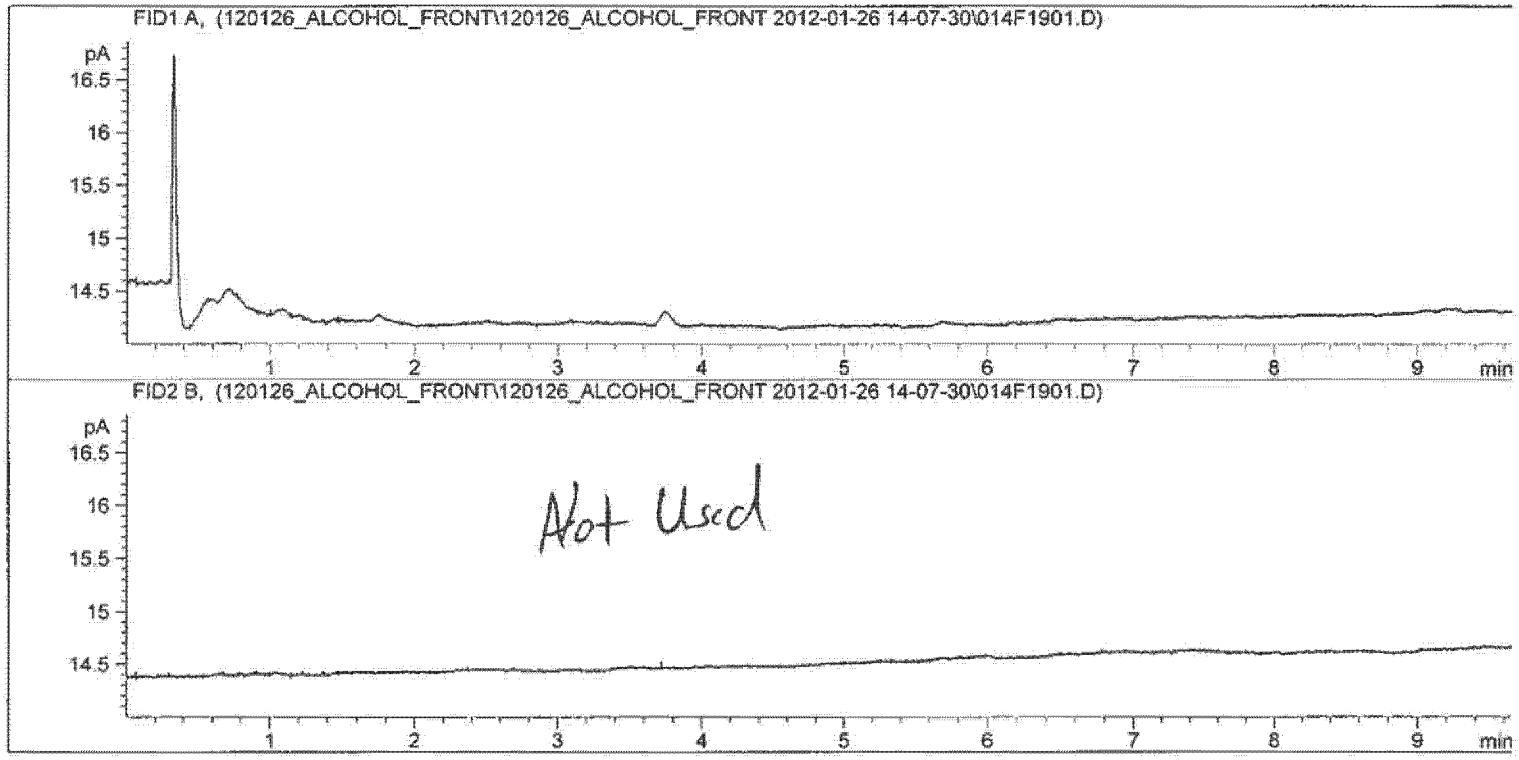
Data File C:\CHEM32\...6_ALCOHOL_FRONT\120126_ALCOHOL_FRONT 2012-01-26 14-07-30\014F1901.D
Sample Name: 1201013-05

==========

Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 1/26/2012 6:19:11 PM

Seq. Line : 19
Location : Vial 14
Inj : 1
Inj Volume : 1 µl

Acq. Method : C:\CHEM32\1\DATA\120126_ALCOHOL_FRONT\120126_ALCOHOL_FRONT 2012-01-26 14-07-30\ALCOHOLS_FRONT.M
Last changed : 1/26/2012 1:39:57 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_120126.M
Last changed : 1/27/2012 8:22:15 AM by ACM
Method Info : FID method for Alcohol analysis



==========

External Standard Report

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Sorted By : Signal
Calib. Data Modified : 1/27/2012 8:21:45 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

N/D

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.517		-	-	-		Methanol
1.742		-	-	-		Ethanol
2.533		-	-	-		1-Propanol
2.763		-	-	-		sec-Butanol
4.781		-	-	-		1-Butanol

Data File C:\CHEM32\...6_ALCOHOL_FRONT\120126_ALCOHOL_FRONT 2012-01-26 14-07-30\014F1901.D
Sample Name: 1201013-05

Totals : 0.00000

Signal 2: FID2 B,

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==========
==========
Area Percent Report
==========

Sorted By : Signal
Calib. Data Modified : 1/27/2012 8:21:45 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.517		0.0000	0.00000	0.00000	Methanol
2	1.742		0.0000	0.00000	0.00000	Ethanol
3	2.533		0.0000	0.00000	0.00000	1-Propanol
4	2.763		0.0000	0.00000	0.00000	sec-Butanol
5	4.781		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

Signal 2: FID2 B,

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

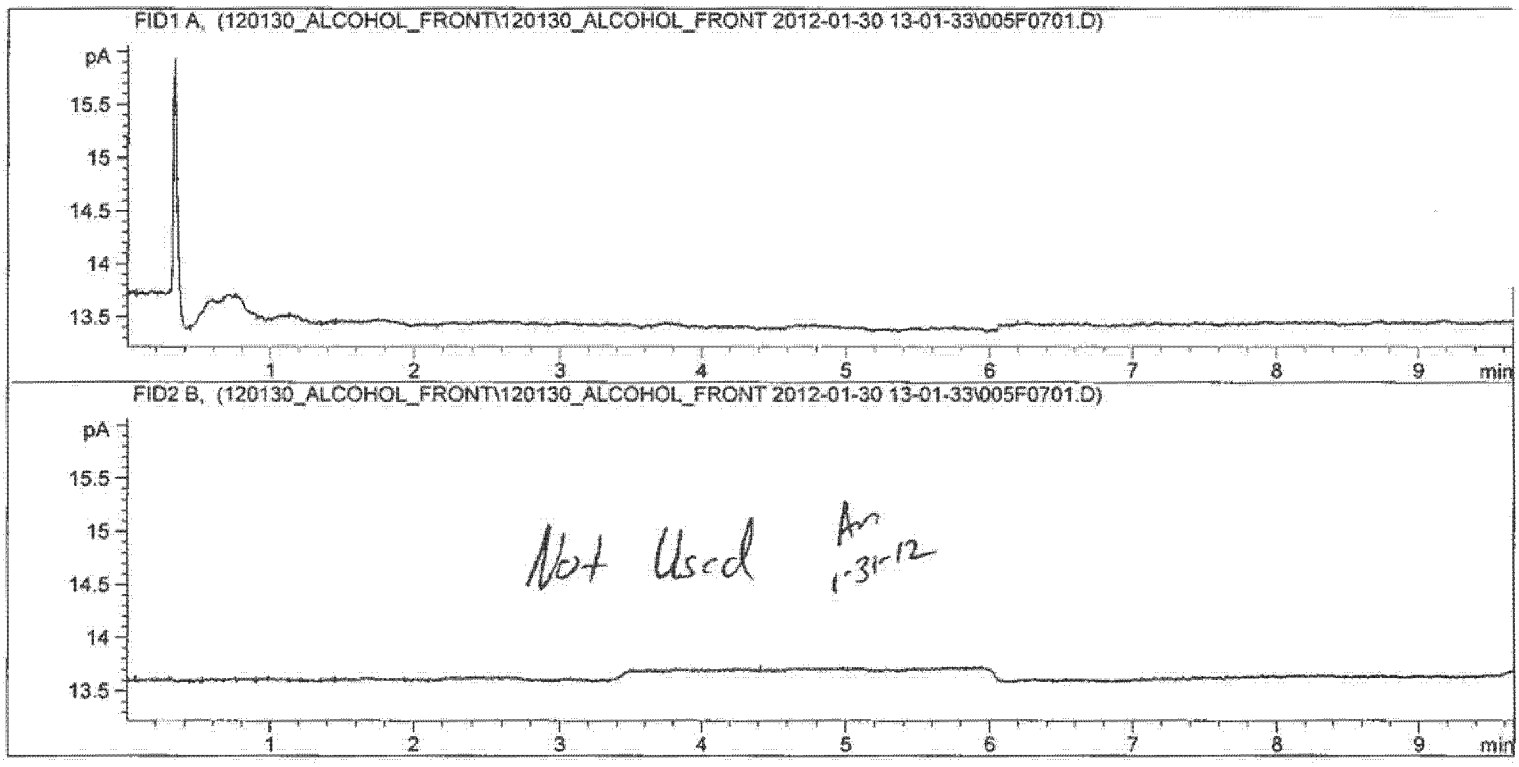
==========
*** End of Report ***

Not Used

An

Data File C:\CHEM32\...0_ALCOHOL_FRONT\120130_ALCOHOL_FRONT 2012-01-30 13-01-33\005F0701.D
Sample Name: 1201013-07

Acq. Operator	: ACM	Seq. Line :	7
Acq. Instrument	: AG3-6890N	Location :	Vial 5
Injection Date	: 1/30/2012 2:27:22 PM	Inj :	1
		Inj Volume :	1 µl
Acq. Method	: C:\CHEM32\1\DATA\120130_ALCOHOL_FRONT\120130_ALCOHOL_FRONT 2012-01-30 13-01-33\ALCOHOLS_FRONT.M		
Last changed	: 1/27/2012 9:44:40 AM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120130.M		
Last changed	: 1/31/2012 7:42:39 AM by ACM		
Method Info	: FID method for Alcohol analysis		



Not Used An 1-31-12

External Standard Report

Sorted By : Signal
Calib. Data Modified : 1/31/2012 7:42:32 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

An

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.527		-	-	-		Methanol
1.749		-	-	-		Ethanol
2.527		-	-	-		1-Propanol
2.755		-	-	-		2-Butanol
4.776		-	-	-		1-Butanol

N/D

Data File C:\CHEM32\...0_ALCOHOL_FRONT\120130_ALCOHOL_FRONT 2012-01-30 13-01-3
Sample Name: 1201013-07

Totals : 0.00000

Signal 2: FID2 B,

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report
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Sorted By : Signal
Calib. Data Modified : 1/31/2012 7:42:32 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.527		0.0000	0.00000	0.00000	Methanol
2	1.749		0.0000	0.00000	0.00000	Ethanol
3	2.527		0.0000	0.00000	0.00000	1-Propanol
4	2.755		0.0000	0.00000	0.00000	2-Butanol
5	4.776		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

Signal 2: FID2 B,

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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

Data File C:\CHEM32\...0_ALCOHOL_FRONT\120130_ALCOHOL_FRONT 2012-01-30 13-01-33\006F0801.D
Sample Name: 1201013-09

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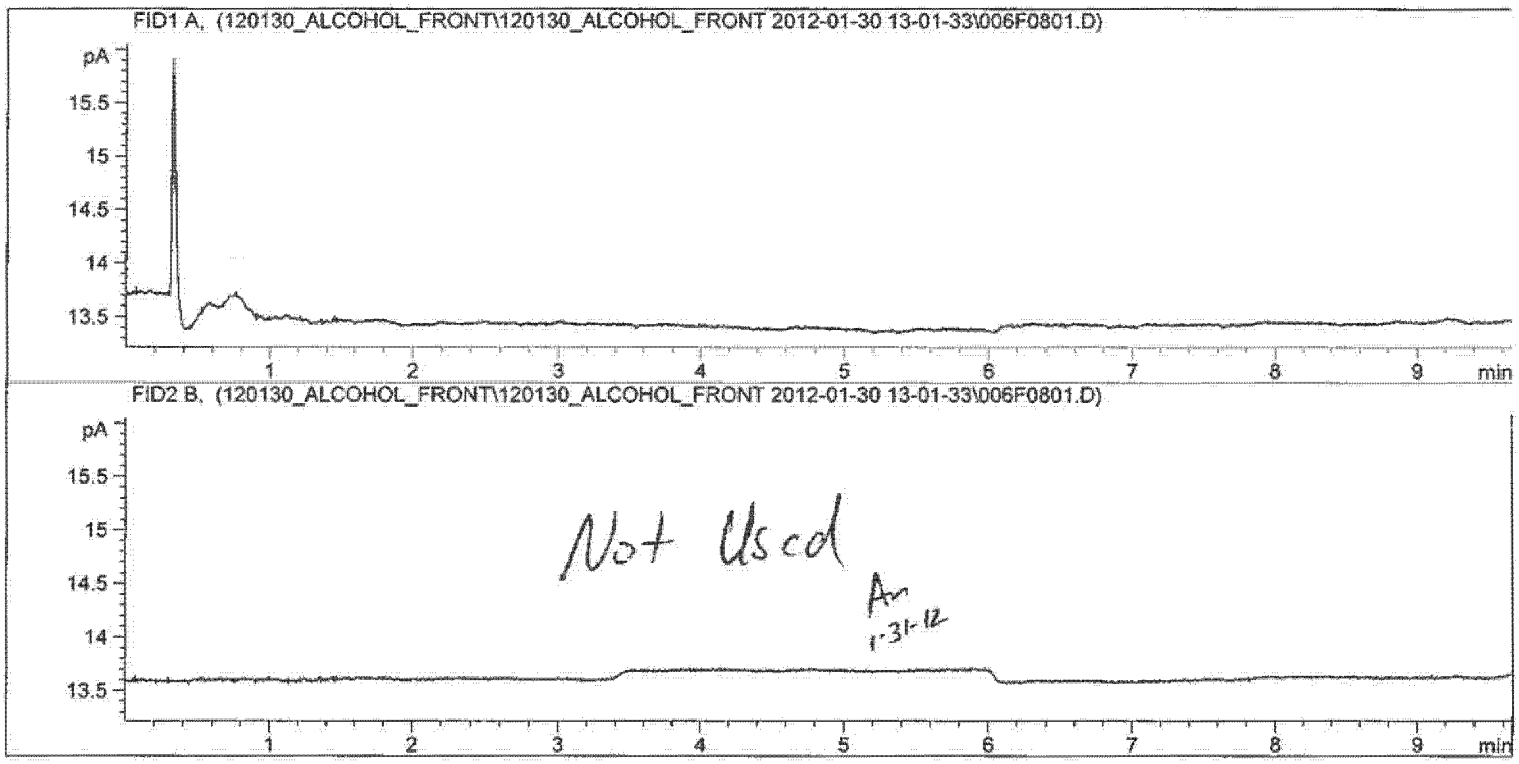
Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 1/30/2012 2:41:12 PM
Seq. Line : 8
Location : Vial 6
Inj : 1
Inj Volume : 1 µl
Acq. Method : C:\CHEM32\1\DATA\120130_ALCOHOL_FRONT\120130_ALCOHOL_FRONT 2012-01-30 13-01-33\ALCOHOLS_FRONT.M
Last changed : 1/27/2012 9:44:40 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120130.M
Last changed : 1/31/2012 7:42:39 AM by ACM
Method Info : FID method for Alcohol analysis



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 1/31/2012 7:42:32 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

N/D

Signal 1: FID1 A,

AM

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.527		-	-	-		Methanol
1.749		-	-	-		Ethanol
2.527		-	-	-		1-Propanol
2.755		-	-	-		2-Butanol
4.776		-	-	-		1-Butanol

Totals : 0.00000

Signal 2: FID2 B,

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 1/31/2012 7:42:32 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.527		0.0000	0.00000	0.00000	Methanol
2	1.749		0.0000	0.00000	0.00000	Ethanol
3	2.527		0.0000	0.00000	0.00000	1-Propanol
4	2.755		0.0000	0.00000	0.00000	2-Butanol
5	4.776		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

Signal 2: FID2 B,

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

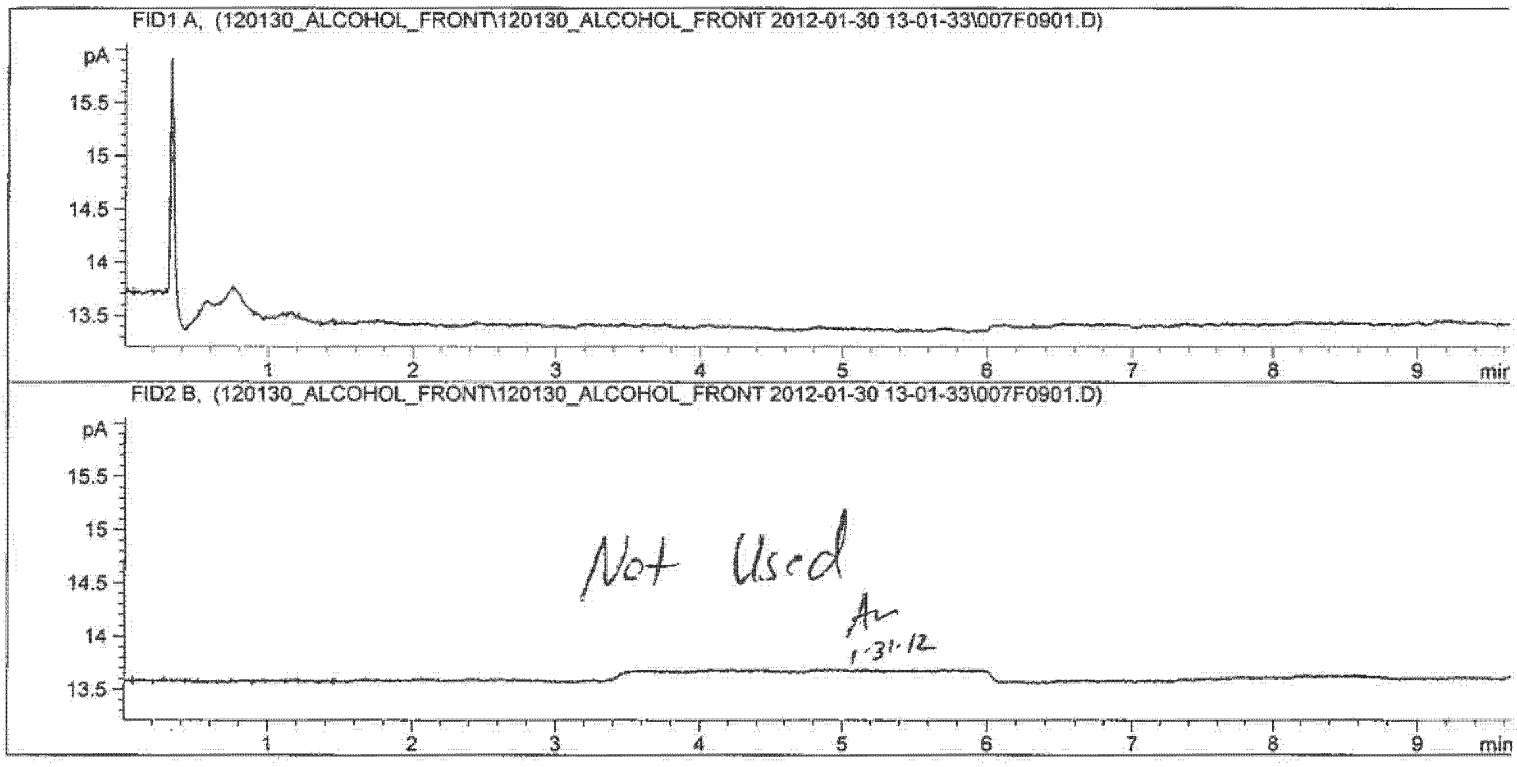
==========

*** End of Report ***

Data File C:\CHEM32\...0_ALCOHOL_FRONT\120130_ALCOHOL_FRONT 2012-01-30 13-01-33\007F0901.D
Sample Name: 1201013-12

Acq. Operator	: ACM	Seq. Line :	9
Acq. Instrument	: AG3-6890N	Location :	Vial 7
Injection Date	: 1/30/2012 2:55:01 PM	Inj :	1
		Inj Volume :	1 µl

Acq. Method : C:\CHEM32\1\DATA\120130_ALCOHOL_FRONT\120130_ALCOHOL_FRONT 2012-01-30 13-01-33\ALCOHOLS_FRONT.M
Last changed : 1/27/2012 9:44:40 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120130.M
Last changed : 1/31/2012 7:42:39 AM by ACM
Method Info : FID method for Alcohol analysis



Not Used
AM
1-31-12

External Standard Report

Sorted By : Signal
Calib. Data Modified : 1/31/2012 7:42:32 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

N/D

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.527		-	-	-		Methanol
1.749		-	-	-		Ethanol
2.527		-	-	-		1-Propanol
2.755		-	-	-		2-Butanol
4.776		-	-	-		1-Butanol

AM

Totals : 0.00000

Signal 2: FID2 B,

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 1/31/2012 7:42:32 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.527		0.0000	0.00000	0.00000	Methanol
2	1.749		0.0000	0.00000	0.00000	Ethanol
3	2.527		0.0000	0.00000	0.00000	1-Propanol
4	2.755		0.0000	0.00000	0.00000	2-Butanol
5	4.776		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

Signal 2: FID2 B,

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

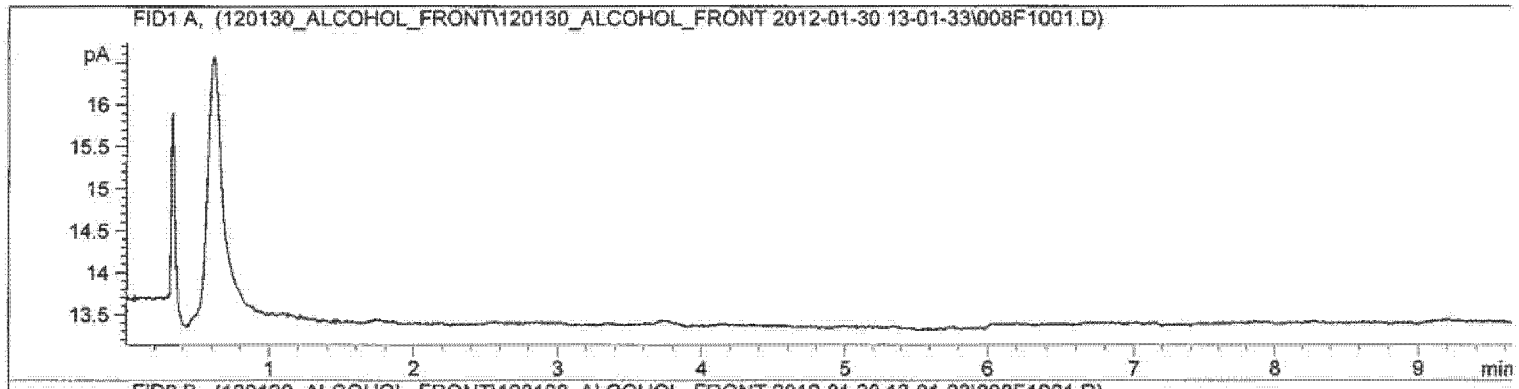
==========

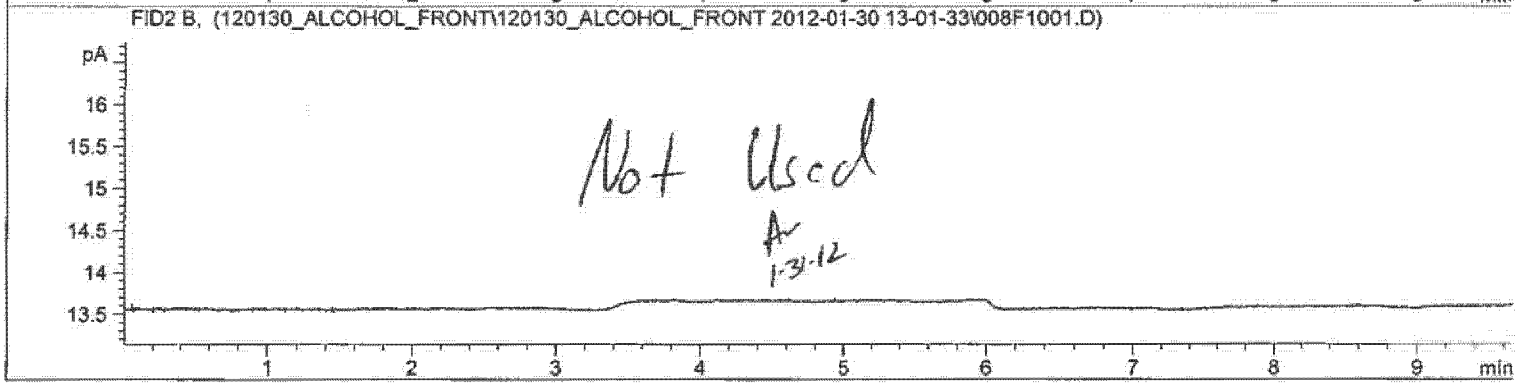
*** End of Report ***

Data File C:\CHEM32\...0_ALCOHOL_FRONT\120130_ALCOHOL_FRONT 2012-01-30 13-01-33\008F1001.D
Sample Name: 1201013-13

Acq. Operator	: ACM	Seq. Line :	10
Acq. Instrument	: AG3-6890N	Location :	Vial 8
Injection Date	: 1/30/2012 3:08:51 PM	Inj :	1
		Inj Volume :	1 µl

Acq. Method : C:\CHEM32\1\DATA\120130_ALCOHOL_FRONT\120130_ALCOHOL_FRONT 2012-01-30 13-01-33\ALCOHOLS_FRONT.M
Last changed : 1/27/2012 9:44:40 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120130.M
Last changed : 1/31/2012 7:42:39 AM by ACM
Method Info : FID method for Alcohol analysis





Not Used
AV
1-31-12

External Standard Report

Sorted By : Signal
Calib. Data Modified : 1/31/2012 7:42:32 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

AV

Signal 1: FID1 A,

N/D

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.527		-	-	-		Methanol
1.749		-	-	-		Ethanol
2.527		-	-	-		1-Propanol
2.755		-	-	-		2-Butanol
4.776		-	-	-		1-Butanol

Totals : 0.00000

Signal 2: FID2 B,

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 1/31/2012 7:42:32 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.527		0.0000	0.00000	0.00000	Methanol
2	1.749		0.0000	0.00000	0.00000	Ethanol
3	2.527		0.0000	0.00000	0.00000	1-Propanol
4	2.755		0.0000	0.00000	0.00000	2-Butanol
5	4.776		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

Signal 2: FID2 B,

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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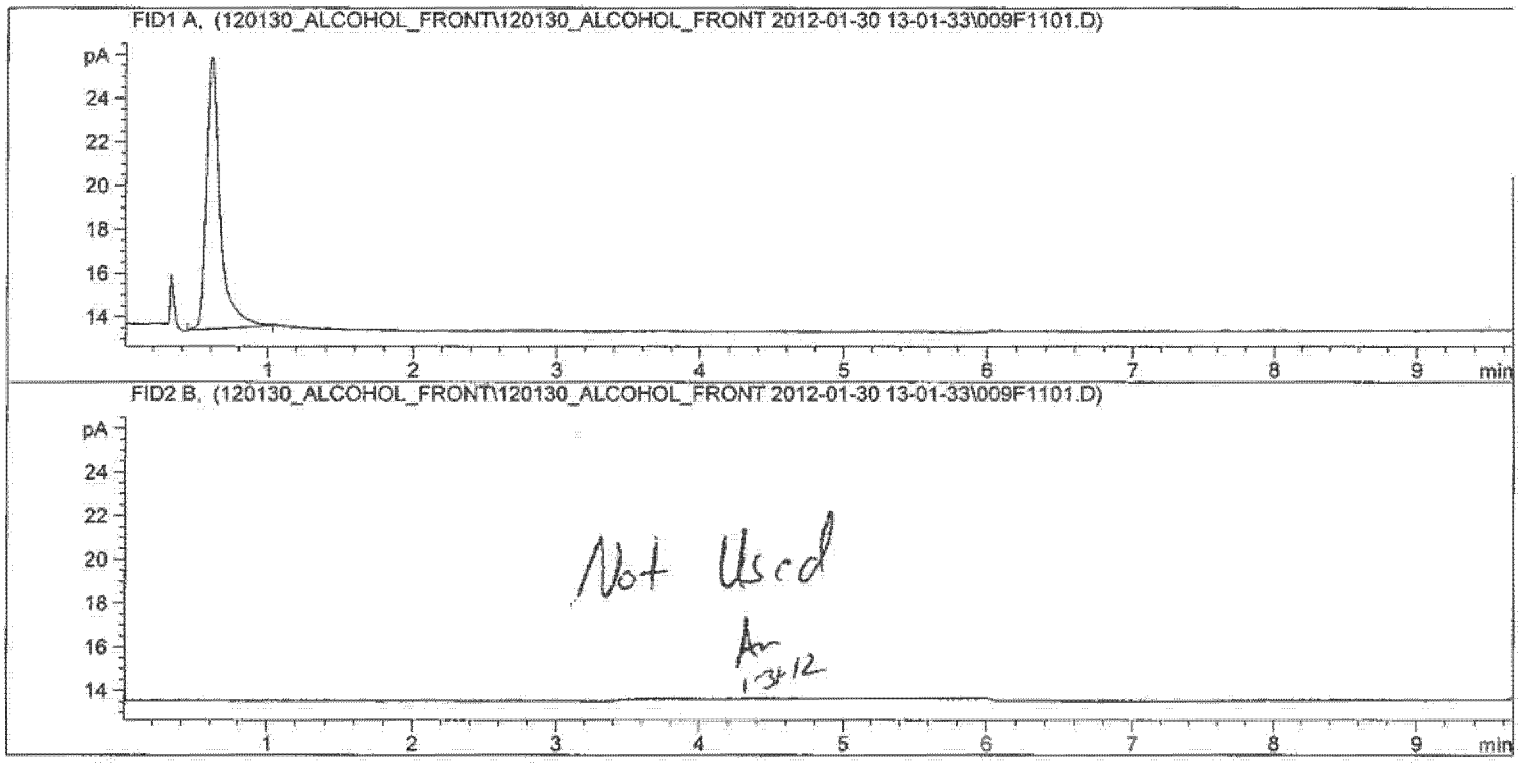
*** End of Report ***

AN

Data File C:\CHEM32\...0_ALCOHOL_FRONT\120130_ALCOHOL_FRONT 2012-01-30 13-01-33\009F1101.D
Sample Name: 1201013-14

Acq. Operator	: ACM	Seq. Line :	11
Acq. Instrument	: AG3-6890N	Location :	Vial 9
Injection Date	: 1/30/2012 3:22:40 PM	Inj :	1
		Inj Volume :	1 µl

Acq. Method : C:\CHEM32\1\DATA\120130_ALCOHOL_FRONT\120130_ALCOHOL_FRONT 2012-01-30 13-01-33\ALCOHOLS_FRONT.M
Last changed : 1/27/2012 9:44:40 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120130.M
Last changed : 1/31/2012 7:42:39 AM by ACM
Method Info : FID method for Alcohol analysis



External Standard Report

Sorted By : Signal
Calib. Data Modified : 1/31/2012 7:42:32 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.527		-	-	-		Methanol
1.749		-	-	-		Ethanol
2.527		-	-	-		1-Propanol
2.755		-	-	-		2-Butanol
4.776		-	-	-		1-Butanol

Totals : 0.00000

Signal 2: FID2 B,

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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==========
Area Percent Report
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Sorted By : Signal
Calib. Data Modified : 1/31/2012 7:42:32 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.527		0.0000	0.00000	0.00000	Methanol
2	1.749		0.0000	0.00000	0.00000	Ethanol
3	2.527		0.0000	0.00000	0.00000	1-Propanol
4	2.755		0.0000	0.00000	0.00000	2-Butanol
5	4.776		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

Signal 2: FID2 B,

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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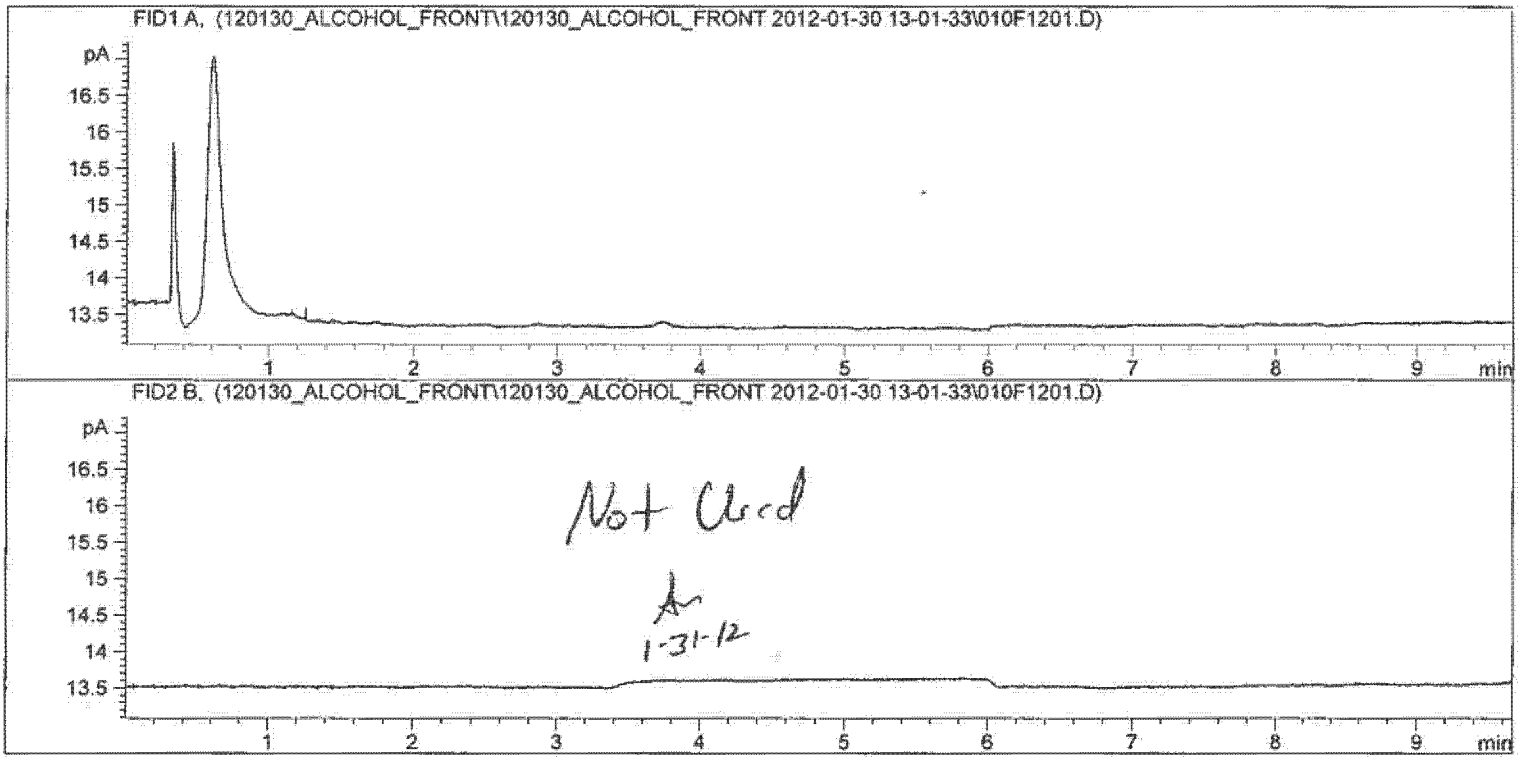
*** End of Report ***

Am

Data File C:\CHEM32\...0_ALCOHOL_FRONT\120130_ALCOHOL_FRONT 2012-01-30 13-01-33\010F1201.D
Sample Name: 1201013-15

Acq. Operator	: ACM	Seq. Line :	12
Acq. Instrument	: AG3-6890N	Location :	Vial 10
Injection Date	: 1/30/2012 3:36:30 PM	Inj :	1
		Inj Volume :	1 µl

Acq. Method : C:\CHEM32\1\DATA\120130_ALCOHOL_FRONT\120130_ALCOHOL_FRONT 2012-01-30 13-01-33\ALCOHOLS_FRONT.M
Last changed : 1/27/2012 9:44:40 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120130.M
Last changed : 1/31/2012 7:42:39 AM by ACM
Method Info : FID method for Alcohol analysis



External Standard Report

Sorted By : Signal
Calib. Data Modified : 1/31/2012 7:42:32 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.527		-	-	-		Methanol
1.749		-	-	-		Ethanol
2.527		-	-	-		1-Propanol
2.755		-	-	-		2-Butanol
4.776		-	-	-		1-Butanol

N/D

Totals : 0.00000

Signal 2: FID2 B,

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 1/31/2012 7:42:32 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.527		0.0000	0.00000	0.00000	Methanol
2	1.749		0.0000	0.00000	0.00000	Ethanol
3	2.527		0.0000	0.00000	0.00000	1-Propanol
4	2.755		0.0000	0.00000	0.00000	2-Butanol
5	4.776		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

Signal 2: FID2 B,

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==========

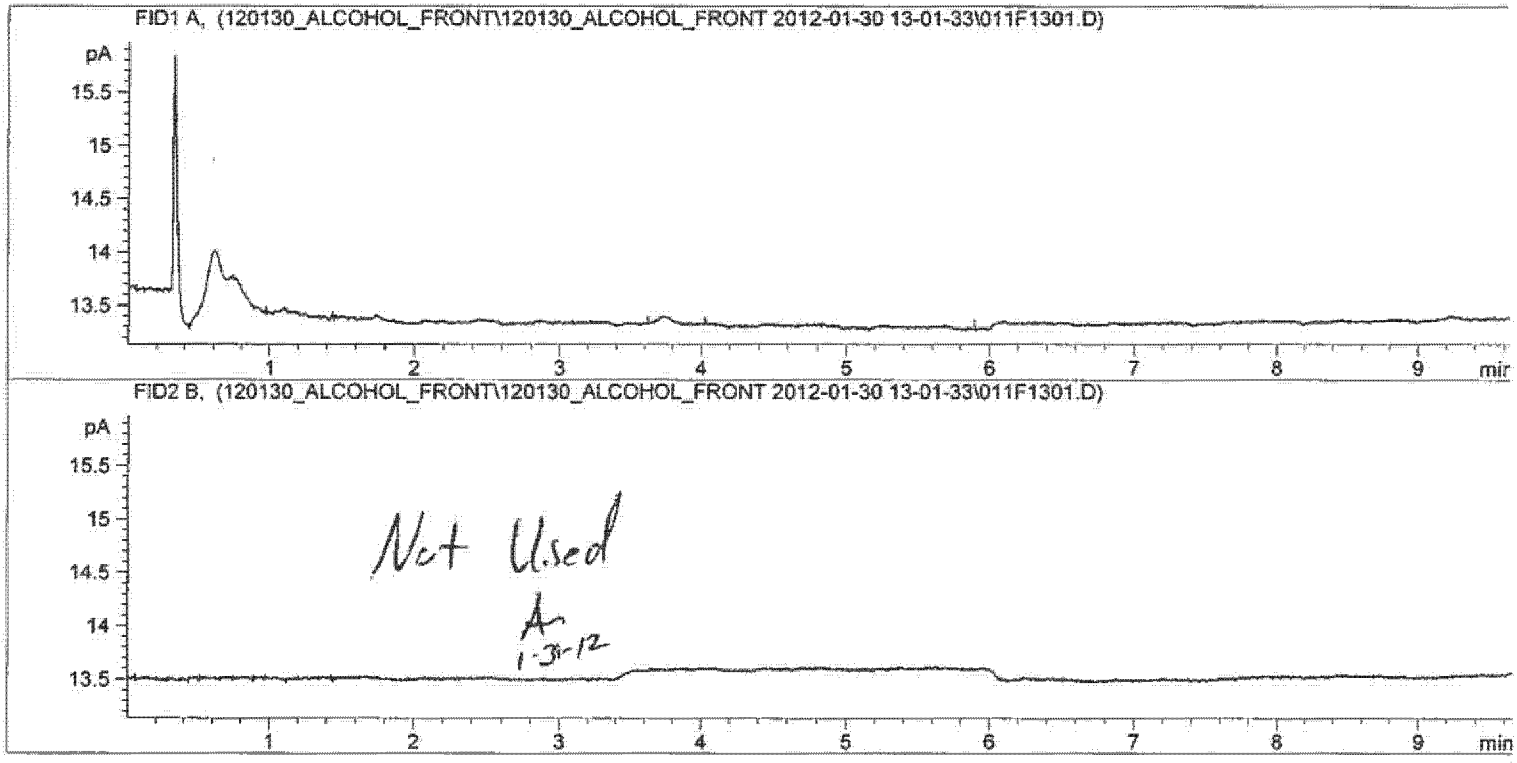
*** End of Report ***

Ken

Data File C:\CHEM32\...0_ALCOHOL_FRONT\120130_ALCOHOL_FRONT 2012-01-30 13-01-33\011F1301.D
Sample Name: 1201013-16

Acq. Operator	: ACM	Seq. Line	: 13
Acq. Instrument	: AG3-6890N	Location	: Vial 11
Injection Date	: 1/30/2012 3:50:19 PM	Inj	: 1
		Inj Volume	: 1 µl

Acq. Method : C:\CHEM32\1\DATA\120130_ALCOHOL_FRONT\120130_ALCOHOL_FRONT 2012-01-30 13-01-33\ALCOHOLS_FRONT.M
Last changed : 1/27/2012 9:44:40 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120130.M
Last changed : 1/31/2012 7:42:39 AM by ACM
Method Info : FID method for Alcohol analysis



Not Used
A
1-31-12

External Standard Report

Sorted By : Signal
Calib. Data Modified : 1/31/2012 7:42:32 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

N/D

Signal 1: FID1 A,

Am

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.527		-	-	-		Methanol
1.749		-	-	-		Ethanol
2.527		-	-	-		1-Propanol
2.755		-	-	-		2-Butanol
4.776		-	-	-		1-Butanol

Totals : 0.00000

Signal 2: FID2 B,

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

==========

Sorted By : Signal
Calib. Data Modified : 1/31/2012 7:42:32 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.527		0.0000	0.00000	0.00000	Methanol
2	1.749		0.0000	0.00000	0.00000	Ethanol
3	2.527		0.0000	0.00000	0.00000	1-Propanol
4	2.755		0.0000	0.00000	0.00000	2-Butanol
5	4.776		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

Signal 2: FID2 B,

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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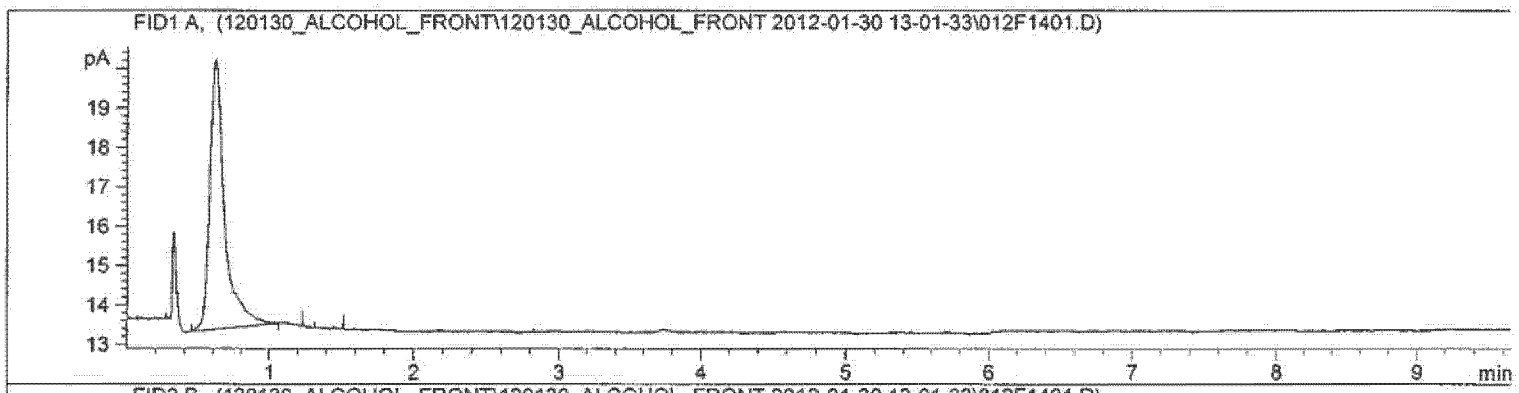
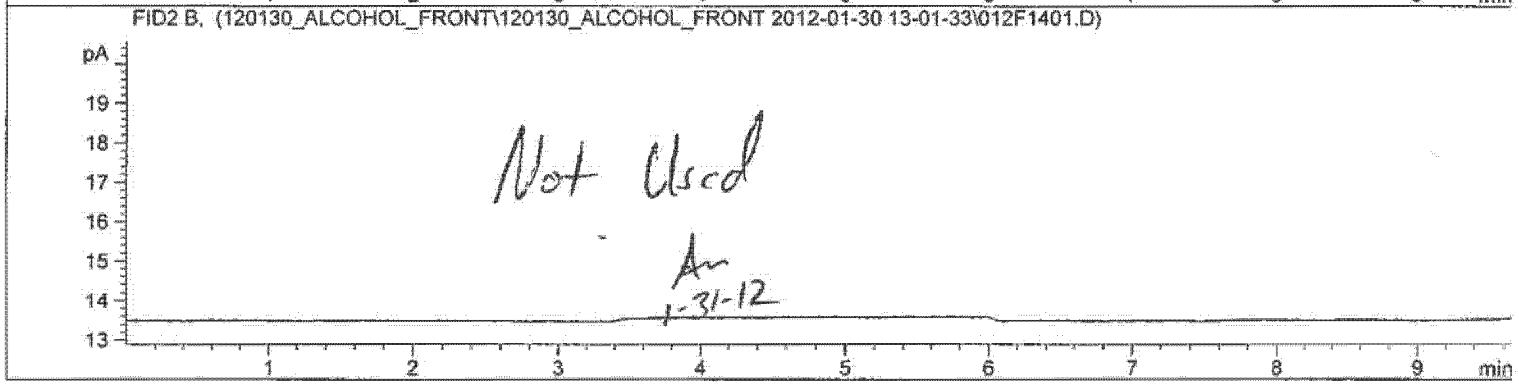
*** End of Report ***

DIM0213954 DIM0214408

Data File C:\CHEM32\...0_ALCOHOL_FRONT\120130_ALCOHOL_FRONT 2012-01-30 13-01-33\012F1401.D
Sample Name: 1201013-17

Acq. Operator	: ACM	Seq. Line	: 14
Acq. Instrument	: AG3-6890N	Location	: Vial 12
Injection Date	: 1/30/2012 4:04:09 PM	Inj	: 1
		Inj Volume	: 1 µl
Acq. Method	: C:\CHEM32\1\DATA\120130_ALCOHOL_FRONT\120130_ALCOHOL_FRONT 2012-01-30 13-01-33\ALCOHOLS_FRONT.M		
Last changed	: 1/27/2012 9:44:40 AM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120130.M		
Last changed	: 1/31/2012 7:42:39 AM by ACM		
Method Info	: FID method for Alcohol analysis		





External Standard Report

Sorted By : Signal
Calib. Data Modified : 1/31/2012 7:42:32 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.527		-	-	-		Methanol
1.749		-	-	-		Ethanol
2.527		-	-	-		1-Propanol
2.755		-	-	-		2-Butanol
4.776		-	-	-		1-Butanol

N/D

Totals : 0.00000

Signal 2: FID2 B,

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==========
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Area Percent Report
==========

Sorted By : Signal
Calib. Data Modified : 1/31/2012 7:42:32 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.527		0.0000	0.00000	0.00000	Methanol
2	1.749		0.0000	0.00000	0.00000	Ethanol
3	2.527		0.0000	0.00000	0.00000	1-Propanol
4	2.755		0.0000	0.00000	0.00000	2-Butanol
5	4.776		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

Signal 2: FID2 B,

1 Warnings or Errors :

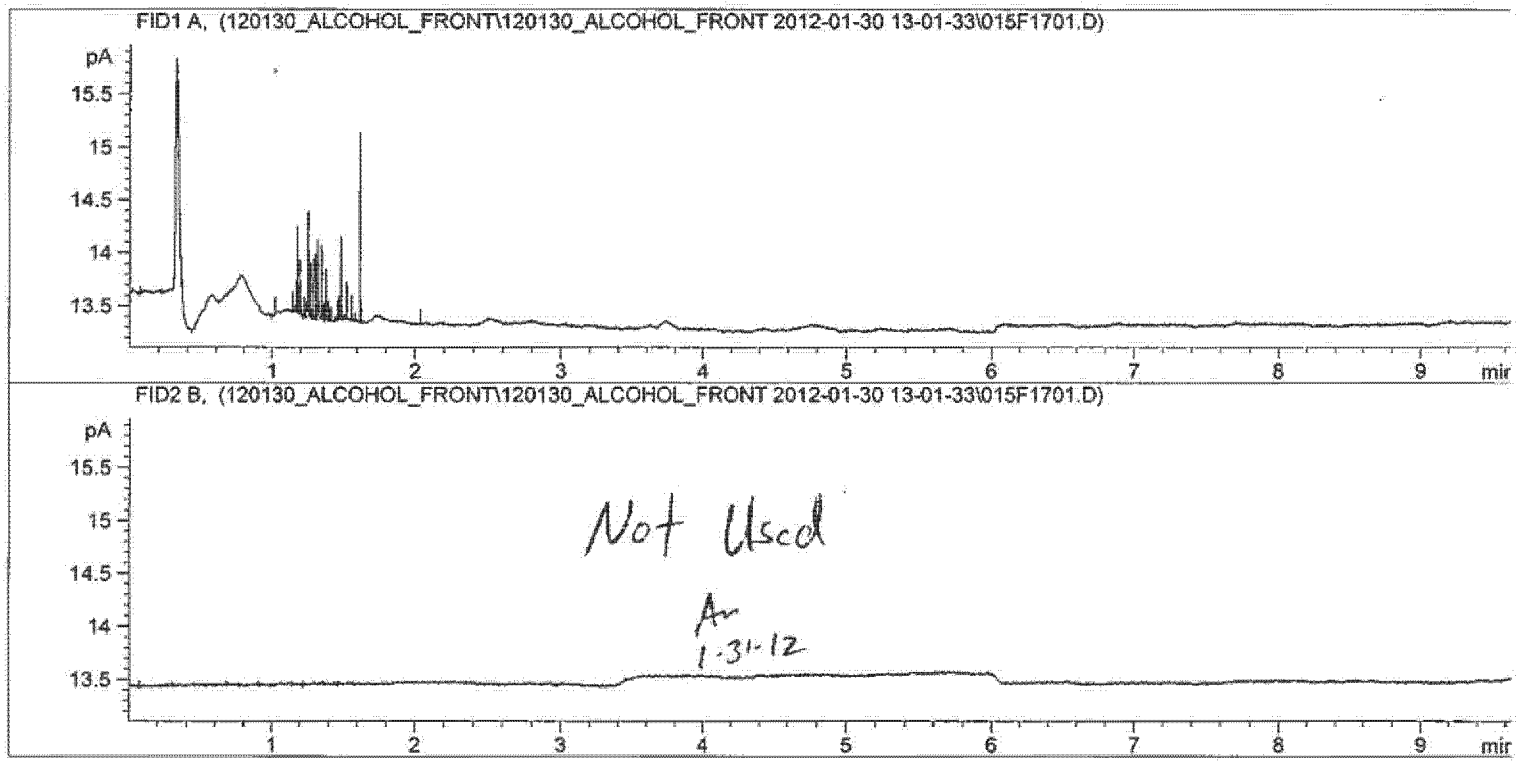
Warning : Calibrated compound(s) not found

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

Am

Data File C:\CHEM32\...0_ALCOHOL_FRONT\120130_ALCOHOL_FRONT 2012-01-30 13-01-33\015F1701.D
Sample Name: 1201013-28

Acq. Operator	: ACM	Seq. Line	: 17
Acq. Instrument	: AG3-6890N	Location	: Vial 15
Injection Date	: 1/30/2012 4:45:39 PM	Inj	: 1
		Inj Volume	: 1 µl
Acq. Method	: C:\CHEM32\1\DATA\120130_ALCOHOL_FRONT\120130_ALCOHOL_FRONT 2012-01-30 13-01-33\ALCOHOLS_FRONT.M		
Last changed	: 1/27/2012 9:44:40 AM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120130.M		
Last changed	: 1/31/2012 7:46:56 AM by ACM (modified after loading)		
Method Info	: FID method for Alcohol analysis		



External Standard Report

Sorted By : Signal
Calib. Data Modified : 1/31/2012 7:46:58 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.527		-	-	-		Methanol
1.749		-	-	-		Ethanol
2.527		-	-	-		1-Propanol
2.755		-	-	-		2-Butanol
4.776		-	-	-		1-Butanol

N/D

Data File C:\CHEM32\...0_ALCOHOL_FRONT\120130_ALCOHOL_FRONT 2012-01-30 13-01-33\015F1701.D
Sample Name: 1201013-28

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
Totals :				0.00000		

Signal 2: FID2 B,

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

Sorted By : Signal
Calib. Data Modified : 1/31/2012 7:46:58 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.527		0.0000	0.00000	0.00000	Methanol
2	1.749		0.0000	0.00000	0.00000	Ethanol
3	2.527		0.0000	0.00000	0.00000	1-Propanol
4	2.755		0.0000	0.00000	0.00000	2-Butanol
5	4.776		0.0000	0.00000	0.00000	1-Butanol
Totals :				0.00000	0.0000	

Signal 2: FID2 B,

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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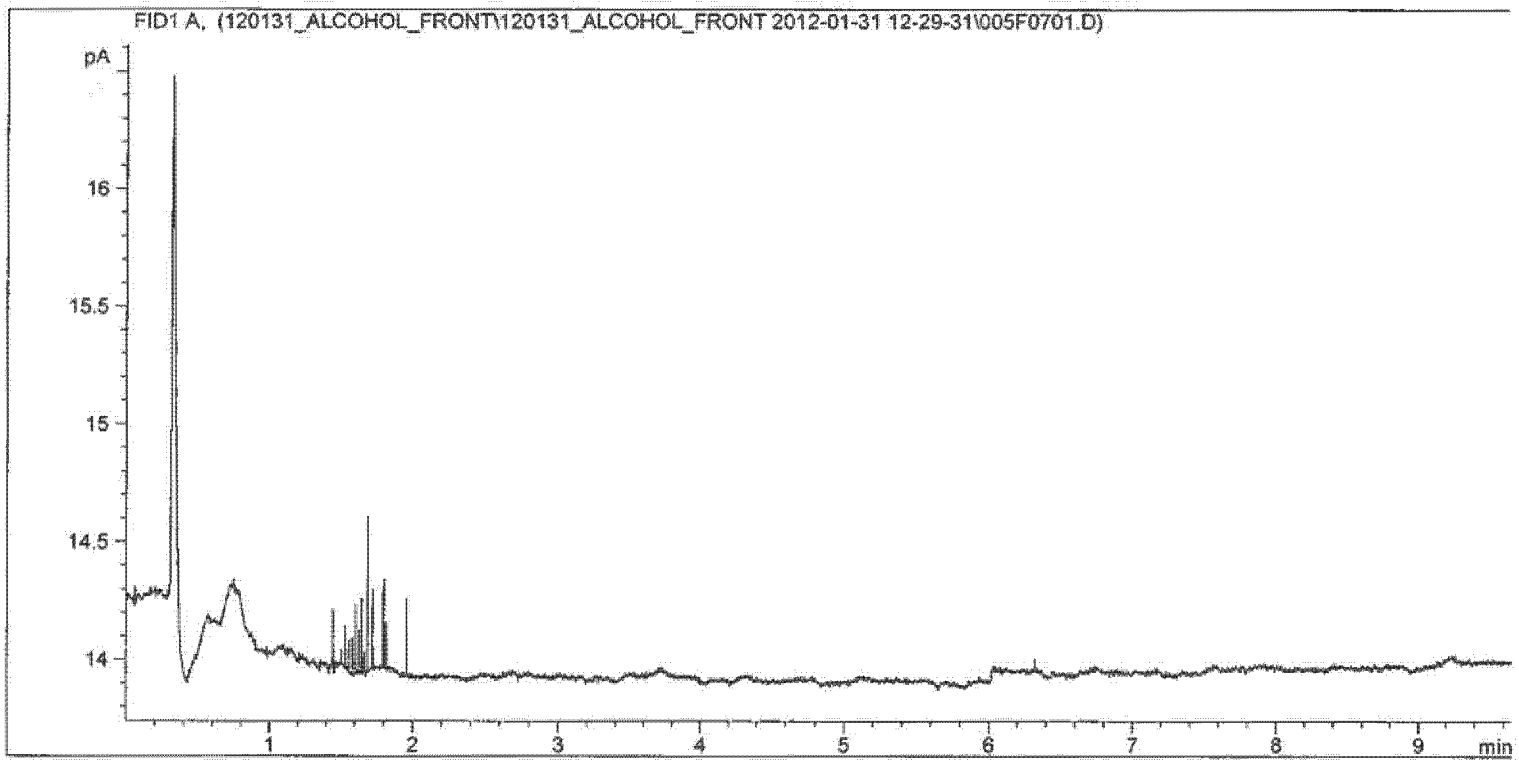
*** End of Report ***

Data File C:\CHEM32\...1_ALCOHOL_FRONT\120131_ALCOHOL_FRONT 2012-01-31 12-29-31\005F0701.D
Sample Name: 1201013-29

Acq. Operator	: ACM	Seq. Line :	7
Acq. Instrument	: AG3-6890N	Location :	Vial 5
Injection Date	: 1/31/2012 1:55:52 PM	Inj :	1
		Inj Volume :	1 µl

Acq. Method : C:\CHEM32\1\DATA\120131_ALCOHOL_FRONT\120131_ALCOHOL_FRONT 2012-01-31 12-29-31\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120131.M
Last changed : 2/1/2012 7:18:25 AM by ACM
(modified after loading)
Method Info : FID method for Alcohol analysis



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/1/2012 7:18:27 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

ACM

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.532		-	-	-		Methanol
1.754		-	-	-		Ethanol
2.525		-	-	-		1-Propanol
2.756		-	-	-		2-Butanol
4.789		-	-	-		1-Butanol

Data File C:\CHEM32\...1_ALCOHOL_FRONT\120131_ALCOHOL_FRONT 2012-01-31 12-29-31\005F0701.D
Sample Name: 1201013-29

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
Totals :				0.00000		

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 2/1/2012 7:18:27 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.532		0.0000	0.00000	0.00000	Methanol
2	1.754		0.0000	0.00000	0.00000	Ethanol
3	2.525		0.0000	0.00000	0.00000	1-Propanol
4	2.756		0.0000	0.00000	0.00000	2-Butanol
5	4.789		0.0000	0.00000	0.00000	1-Butanol
Totals :				0.00000	0.0000	

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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*** End of Report ***

Data File C:\CHEM32\...1_ALCOHOL_FRONT\120131_ALCOHOL_FRONT 2012-01-31 12-29-31\006F0801.D
Sample Name: 1201013-30

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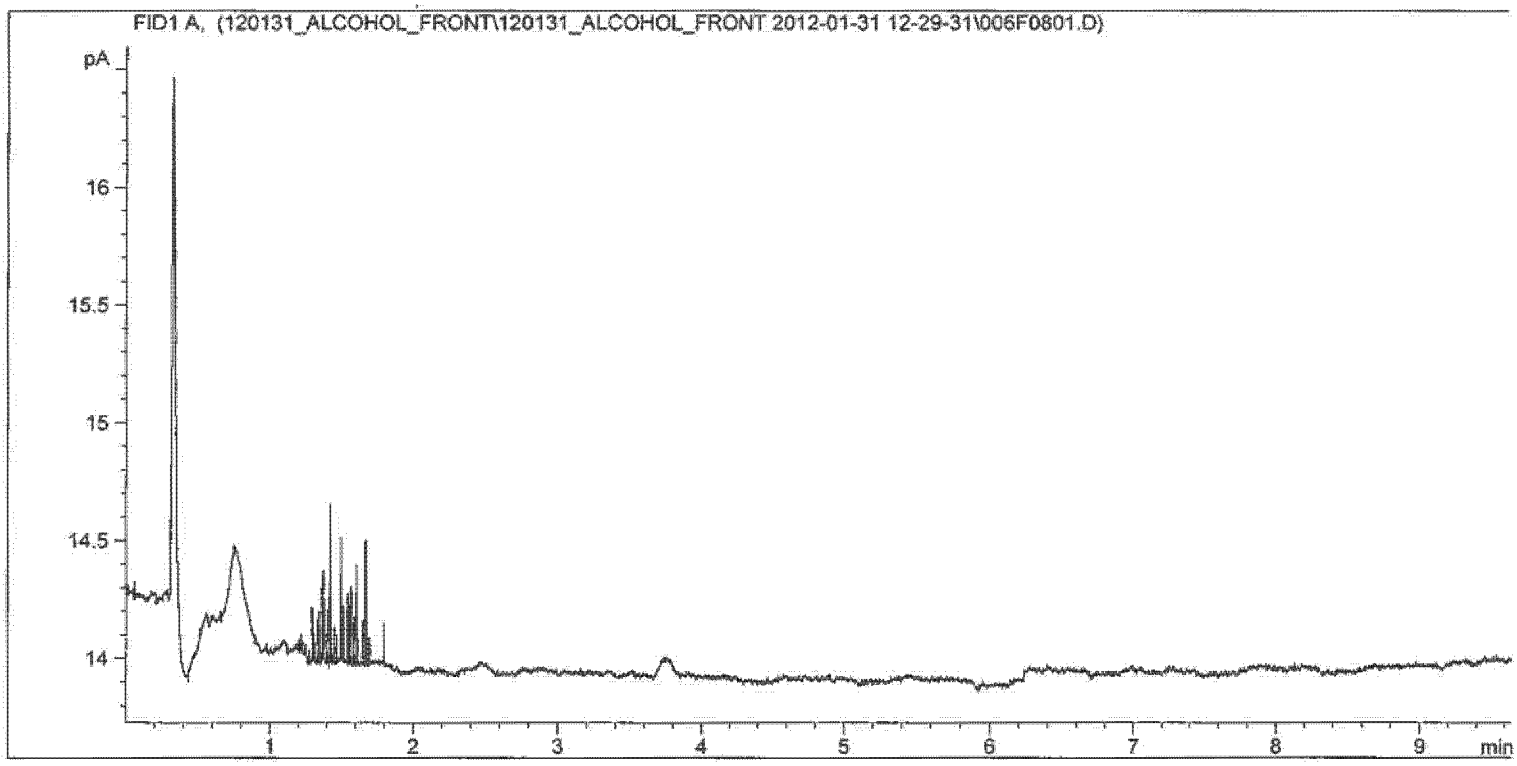
Acq. Operator : ACM
Seq. Line : 8
Acq. Instrument : AG3-6890N
Location : Vial 6
Injection Date : 1/31/2012 2:09:42 PM
Inj : 1
Inj Volume : 1 µl
Acq. Method : C:\CHEM32\1\DATA\120131_ALCOHOL_FRONT\120131_ALCOHOL_FRONT 2012-01-31 12-29-31\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120131.M
Last changed : 2/1/2012 7:18:25 AM by ACM
(modified after loading)
Method Info : FID method for Alcohol analysis



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 2/1/2012 7:18:27 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.532		-	-	-		Methanol
1.754		-	-	-		Ethanol
2.525		-	-	-		1-Propanol
2.756		-	-	-		2-Butanol
4.789		-	-	-		1-Butanol

Data File C:\CHEM32\...1_ALCOHOL_FRONT\120131_ALCOHOL_FRONT 2012-01-31 12-29-31\006F0801.D
Sample Name: 1201013-30

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
Totals :				0.00000		

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 2/1/2012 7:18:27 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.532		0.0000	0.00000	0.00000	Methanol
2	1.754		0.0000	0.00000	0.00000	Ethanol
3	2.525		0.0000	0.00000	0.00000	1-Propanol
4	2.756		0.0000	0.00000	0.00000	2-Butanol
5	4.789		0.0000	0.00000	0.00000	1-Butanol
Totals :				0.00000	0.0000	

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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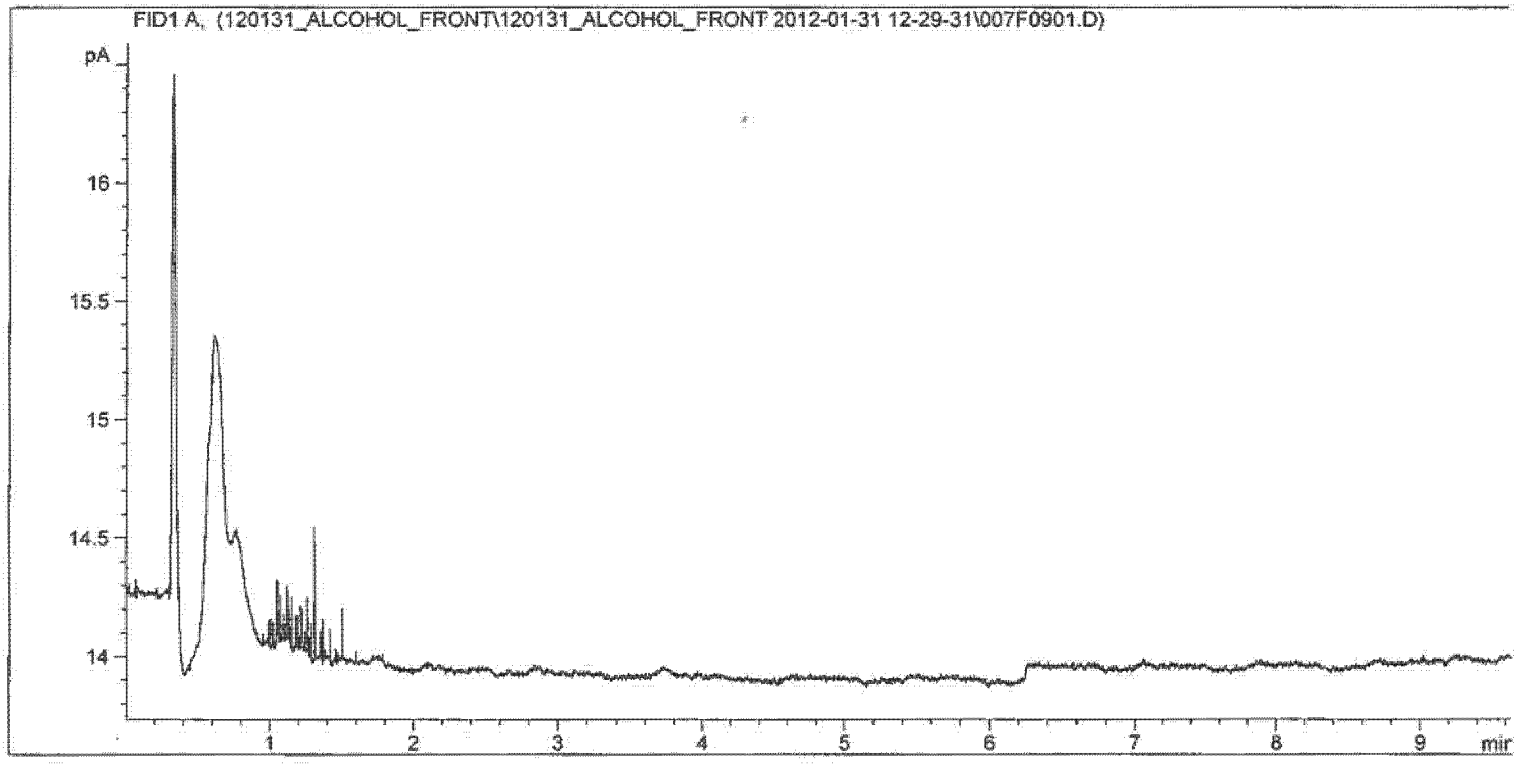
*** End of Report ***

Am

Data File C:\CHEM32\...1_ALCOHOL_FRONT\120131_ALCOHOL_FRONT 2012-01-31 12-29-31\007F0901.D
Sample Name: 1201013-31

Acq. Operator	: ACM	Seq. Line :	9
Acq. Instrument	: AG3-6890N	Location :	Vial 7
Injection Date	: 1/31/2012 2:23:32 PM	Inj :	1
		Inj Volume :	1 µl

Acq. Method : C:\CHEM32\1\DATA\120131_ALCOHOL_FRONT\120131_ALCOHOL_FRONT 2012-01-31 12-29-31\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120131.M
Last changed : 2/1/2012 7:18:25 AM by ACM
(modified after loading)
Method Info : FID method for Alcohol analysis



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/1/2012 7:18:27 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.532		-	-	-		Methanol
1.754		-	-	-		Ethanol
2.525		-	-	-		1-Propanol
2.756		-	-	-		2-Butanol
4.789		-	-	-		1-Butanol

Acm

Data File C:\CHEM32\...1_ALCOHOL_FRONT\120131_ALCOHOL_FRONT 2012-01-31 12-29-31\007F0901.D
Sample Name: 1201013-31

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
Totals :				0.00000		

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report
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Sorted By : Signal
Calib. Data Modified : 2/1/2012 7:18:27 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.532		0.0000	0.00000	0.00000	Methanol
2	1.754		0.0000	0.00000	0.00000	Ethanol
3	2.525		0.0000	0.00000	0.00000	1-Propanol
4	2.756		0.0000	0.00000	0.00000	2-Butanol
5	4.789		0.0000	0.00000	0.00000	1-Butanol
Totals :				0.00000	0.0000	

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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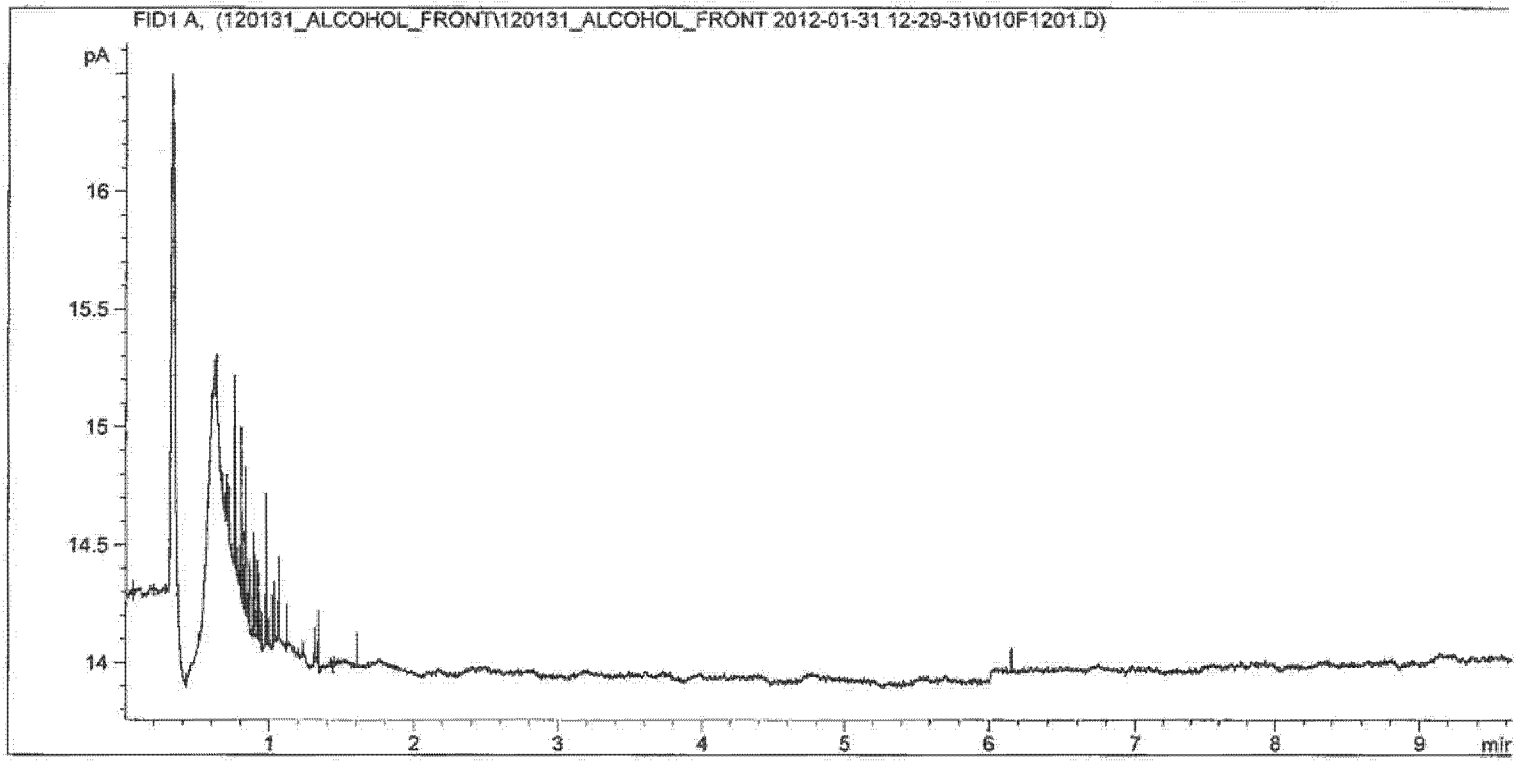
*** End of Report ***

Data File C:\CHEM32\...1_ALCOHOL_FRONT\120131_ALCOHOL_FRONT 2012-01-31 12-29-31\010F1201.D
Sample Name: 1201013-32

Acq. Operator	: ACM	Seq. Line :	12
Acq. Instrument	: AG3-6890N	Location :	Vial 10
Injection Date	: 1/31/2012 3:05:04 PM	Inj :	1
		Inj Volume :	1 µl

Acq. Method : C:\CHEM32\1\DATA\120131_ALCOHOL_FRONT\120131_ALCOHOL_FRONT 2012-01-31 12-29-31\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120131.M
Last changed : 2/1/2012 7:20:03 AM by ACM
(modified after loading)
Method Info : FID method for Alcohol analysis



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/1/2012 7:20:03 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Acm

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.532		-	-	-		Methanol
1.754		-	-	-		Ethanol
2.525		-	-	-		1-Propanol
2.756		-	-	-		2-Butanol
4.789		-	-	-		1-Butanol

Data File C:\CHEM32\...1_ALCOHOL_FRONT\120131_ALCOHOL_FRONT 2012-01-31 12-29-31\010F1201.D
Sample Name: 1201013-32

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
Totals :				0.00000		

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 2/1/2012 7:20:03 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.532		0.0000	0.00000	0.00000	Methanol
2	1.754		0.0000	0.00000	0.00000	Ethanol
3	2.525		0.0000	0.00000	0.00000	1-Propanol
4	2.756		0.0000	0.00000	0.00000	2-Butanol
5	4.789		0.0000	0.00000	0.00000	1-Butanol
Totals :				0.00000	0.0000	

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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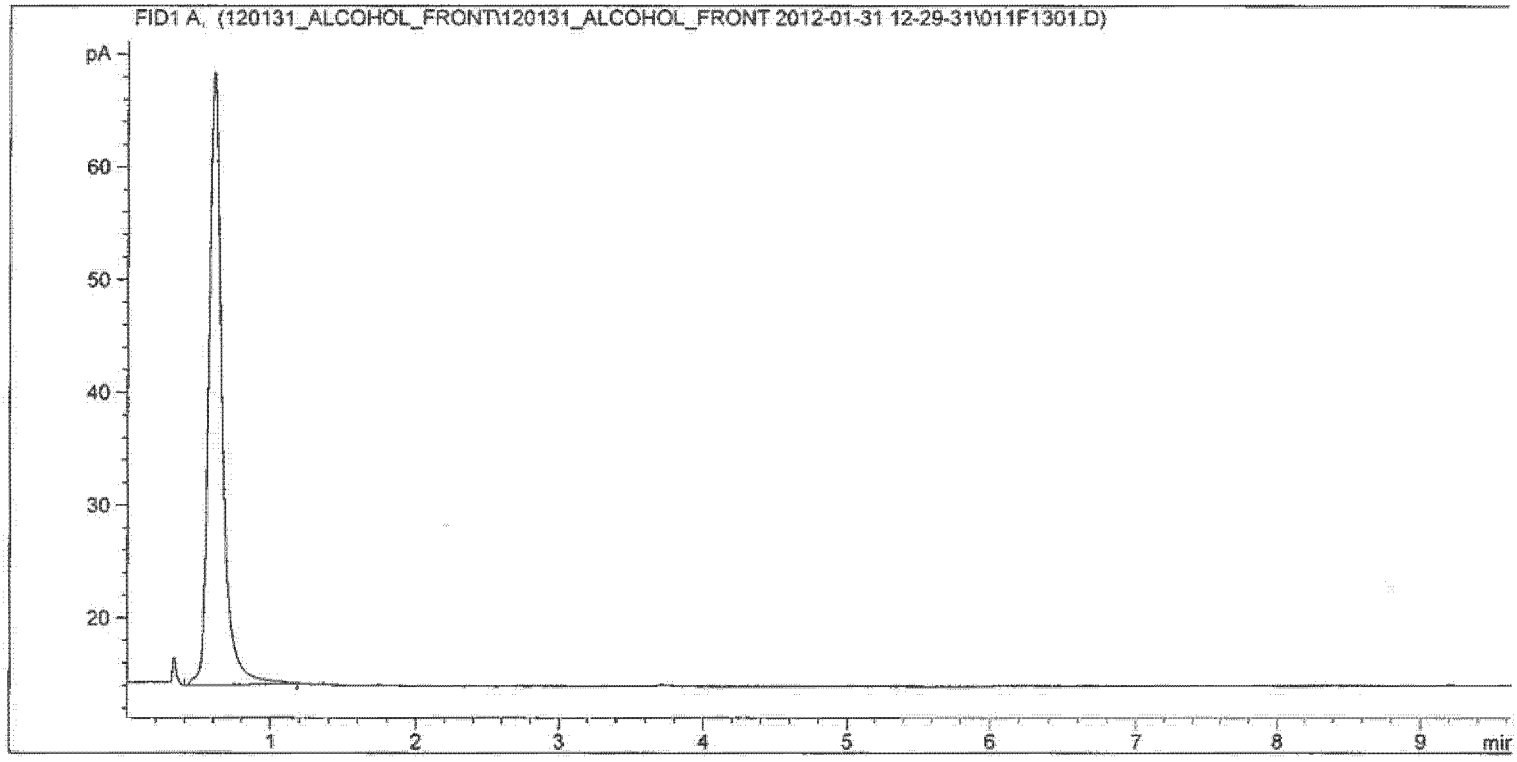
*** End of Report ***

Acm

Data File C:\CHEM32\...1_ALCOHOL_FRONT\120131_ALCOHOL_FRONT 2012-01-31 12-29-31\011F1301.D
Sample Name: 1201013-33

Acq. Operator	: ACM	Seq. Line :	13
Acq. Instrument	: AG3-6890N	Location :	Vial 11
Injection Date	: 1/31/2012 3:18:55 PM	Inj :	1
		Inj Volume :	1 µl

Acq. Method : C:\CHEM32\1\DATA\120131_ALCOHOL_FRONT\120131_ALCOHOL_FRONT 2012-01-31 12-29-31\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120131.M
Last changed : 2/1/2012 7:20:03 AM by ACM
(modified after loading)
Method Info : FID method for Alcohol analysis



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/1/2012 7:20:03 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.532		-	-	-		Methanol
1.754		-	-	-		Ethanol
2.525		-	-	-		1-Propanol
2.756		-	-	-		2-Butanol
4.789		-	-	-		1-Butanol

Data File C:\CHEM32\...1_ALCOHOL_FRONT\120131_ALCOHOL_FRONT 2012-01-31 12-29-31\011F1301.D
Sample Name: 1201013-33

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
Totals :				0.00000		

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 2/1/2012 7:20:03 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.532		0.0000	0.00000	0.00000	Methanol
2	1.754		0.0000	0.00000	0.00000	Ethanol
3	2.525		0.0000	0.00000	0.00000	1-Propanol
4	2.756		0.0000	0.00000	0.00000	2-Butanol
5	4.789		0.0000	0.00000	0.00000	1-Butanol
Totals :				0.00000	0.0000	

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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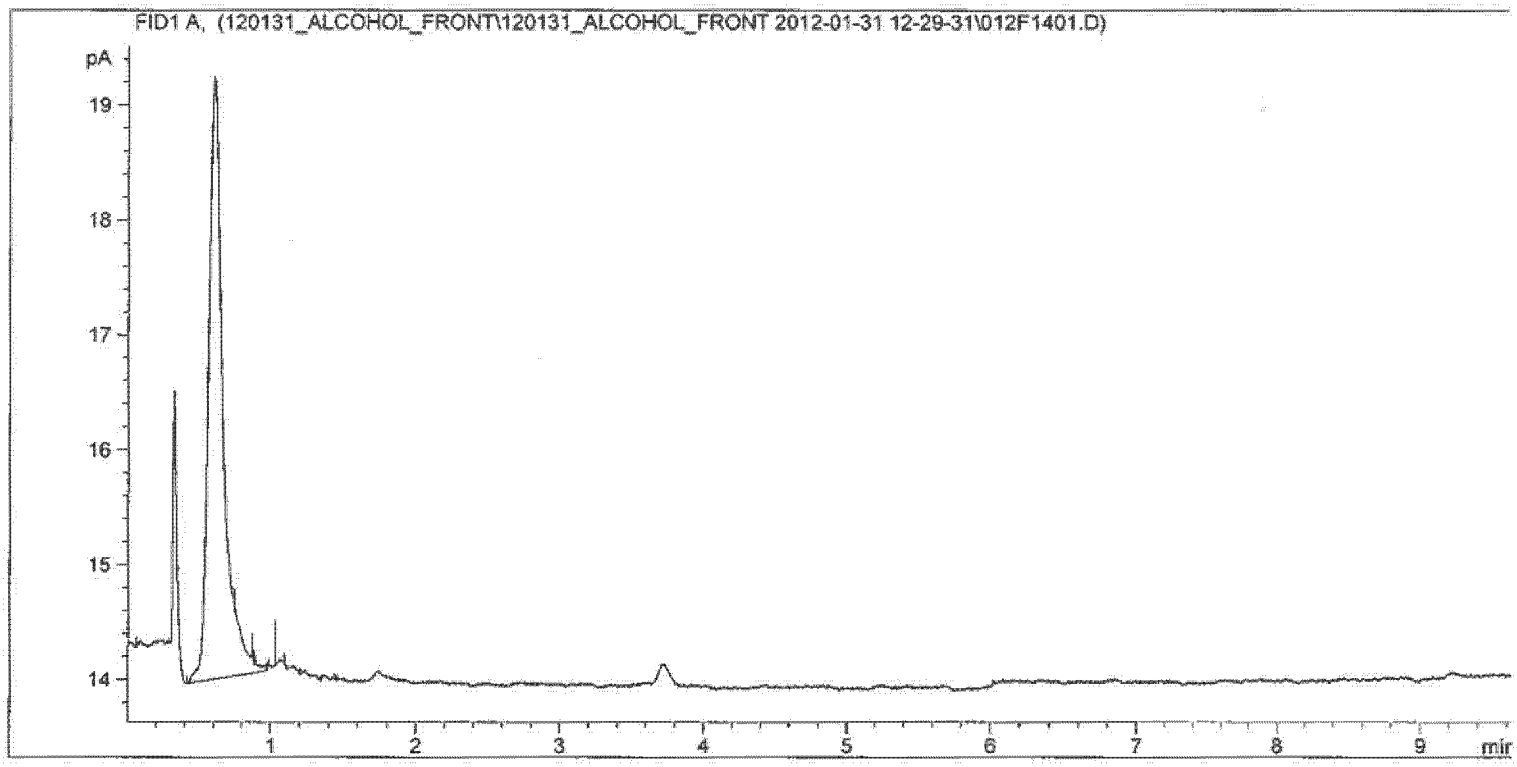
*** End of Report ***

Av

Data File C:\CHEM32\...1_ALCOHOL_FRONT\120131_ALCOHOL_FRONT 2012-01-31 12-29-31\012F1401.D
Sample Name: 1201013-34

==========

Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 1/31/2012 3:32:46 PM
Seq. Line : 14
Location : Vial 12
Inj : 1
Inj Volume : 1 µl
Acq. Method : C:\CHEM32\1\DATA\120131_ALCOHOL_FRONT\120131_ALCOHOL_FRONT 2012-01-31 12-29-31\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120131.M
Last changed : 2/1/2012 7:20:03 AM by ACM
(modified after loading)
Method Info : FID method for Alcohol analysis



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 2/1/2012 7:20:03 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.532		-	-	-		Methanol
1.754		-	-	-		Ethanol
2.525		-	-	-		1-Propanol
2.756		-	-	-		2-Butanol
4.789		-	-	-		1-Butanol

Data File C:\CHEM32\...1_ALCOHOL_FRONT\120131_ALCOHOL_FRONT 2012-01-31 12-29-31\012F1401.D
Sample Name: 1201013-34

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
Totals :				0.00000		

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 2/1/2012 7:20:03 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.532		0.0000	0.00000	0.00000	Methanol
2	1.754		0.0000	0.00000	0.00000	Ethanol
3	2.525		0.0000	0.00000	0.00000	1-Propanol
4	2.756		0.0000	0.00000	0.00000	2-Butanol
5	4.789		0.0000	0.00000	0.00000	1-Butanol
Totals :				0.00000	0.0000	

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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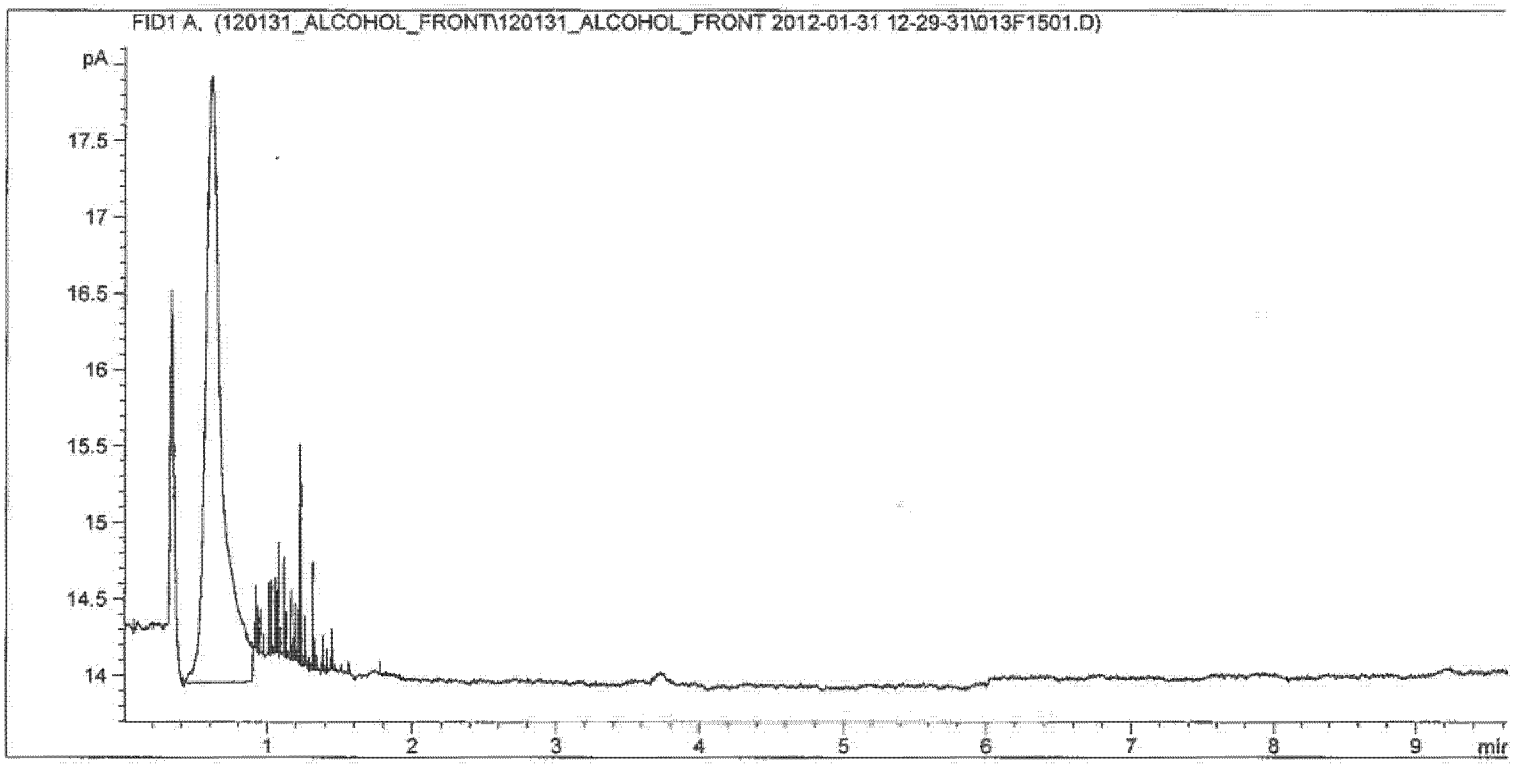
*** End of Report ***

Data File C:\CHEM32\...1_ALCOHOL_FRONT\120131_ALCOHOL_FRONT 2012-01-31 12-29-31\013F1501.D
Sample Name: 1201013-35

Acq. Operator	: ACM	Seq. Line :	15
Acq. Instrument	: AG3-6890N	Location :	Vial 13
Injection Date	: 1/31/2012 3:46:37 PM	Inj :	1
		Inj Volume :	1 µl

Acq. Method : C:\CHEM32\1\DATA\120131_ALCOHOL_FRONT\120131_ALCOHOL_FRONT 2012-01-31 12-29-31\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120131.M
Last changed : 2/1/2012 7:20:03 AM by ACM
(modified after loading)
Method Info : FID method for Alcohol analysis



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/1/2012 7:20:03 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.532		-	-	-		Methanol
1.754		-	-	-		Ethanol
2.525		-	-	-		1-Propanol
2.756		-	-	-		2-Butanol
4.789		-	-	-		1-Butanol

Data File C:\CHEM32\...1_ALCOHOL_FRONT\120131_ALCOHOL_FRONT 2012-01-31 12-29-31\013F1501.D
Sample Name: 1201013-35

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
Totals :				0.00000		

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 2/1/2012 7:20:03 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.532		0.0000	0.00000	0.00000	Methanol
2	1.754		0.0000	0.00000	0.00000	Ethanol
3	2.525		0.0000	0.00000	0.00000	1-Propanol
4	2.756		0.0000	0.00000	0.00000	2-Butanol
5	4.789		0.0000	0.00000	0.00000	1-Butanol
Totals :				0.00000	0.0000	

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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*** End of Report ***

Data File C:\CHEM32\...1_ALCOHOL_FRONT\120131_ALCOHOL_FRONT 2012-01-31 12-29-31\014F1601.D
Sample Name: 1201013-36

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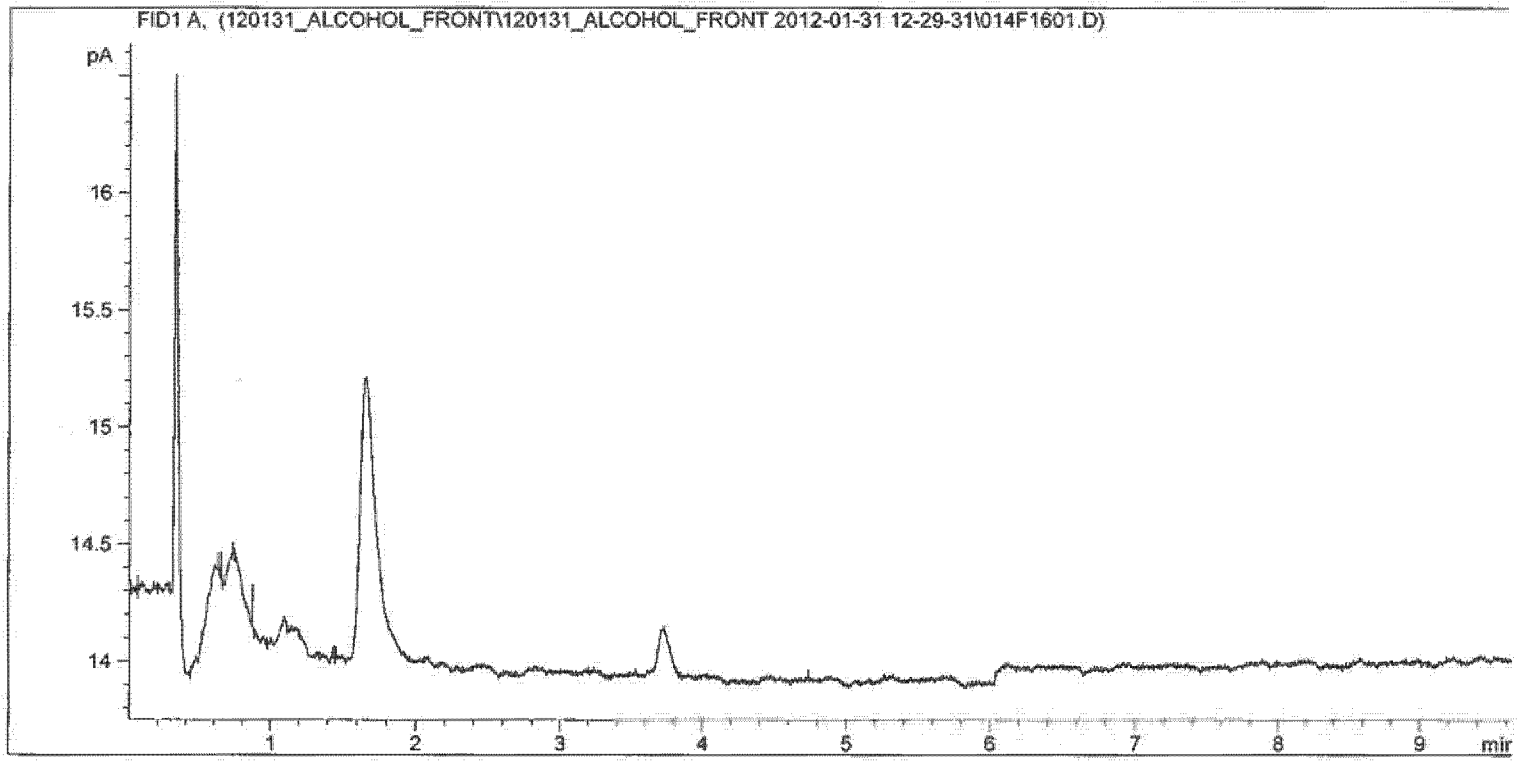
Acq. Operator : ACM
Seq. Line : 16
Acq. Instrument : AG3-6890N
Location : Vial 14
Injection Date : 1/31/2012 4:00:28 PM
Inj : 1
Inj Volume : 1 µl
Acq. Method : C:\CHEM32\1\DATA\120131_ALCOHOL_FRONT\120131_ALCOHOL_FRONT 2012-01-31 12-29-31\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120131.M
Last changed : 2/1/2012 7:20:03 AM by ACM
(modified after loading)
Method Info : FID method for Alcohol analysis



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 2/1/2012 7:20:03 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.532		-	-	-		Methanol
1.754		-	-	-		Ethanol
2.525		-	-	-		1-Propanol
2.756		-	-	-		2-Butanol
4.789		-	-	-		1-Butanol

Data File C:\CHEM32\...1_ALCOHOL_FRONT\120131_ALCOHOL_FRONT 2012-01-31 12-29-31\014F1601.D
Sample Name: 1201013-36

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
Totals :				0.00000		

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==========

Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 2/1/2012 7:20:03 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.532		0.0000	0.00000	0.00000	Methanol
2	1.754		0.0000	0.00000	0.00000	Ethanol
3	2.525		0.0000	0.00000	0.00000	1-Propanol
4	2.756		0.0000	0.00000	0.00000	2-Butanol
5	4.789		0.0000	0.00000	0.00000	1-Butanol
Totals :				0.00000	0.0000	

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==========

*** End of Report ***

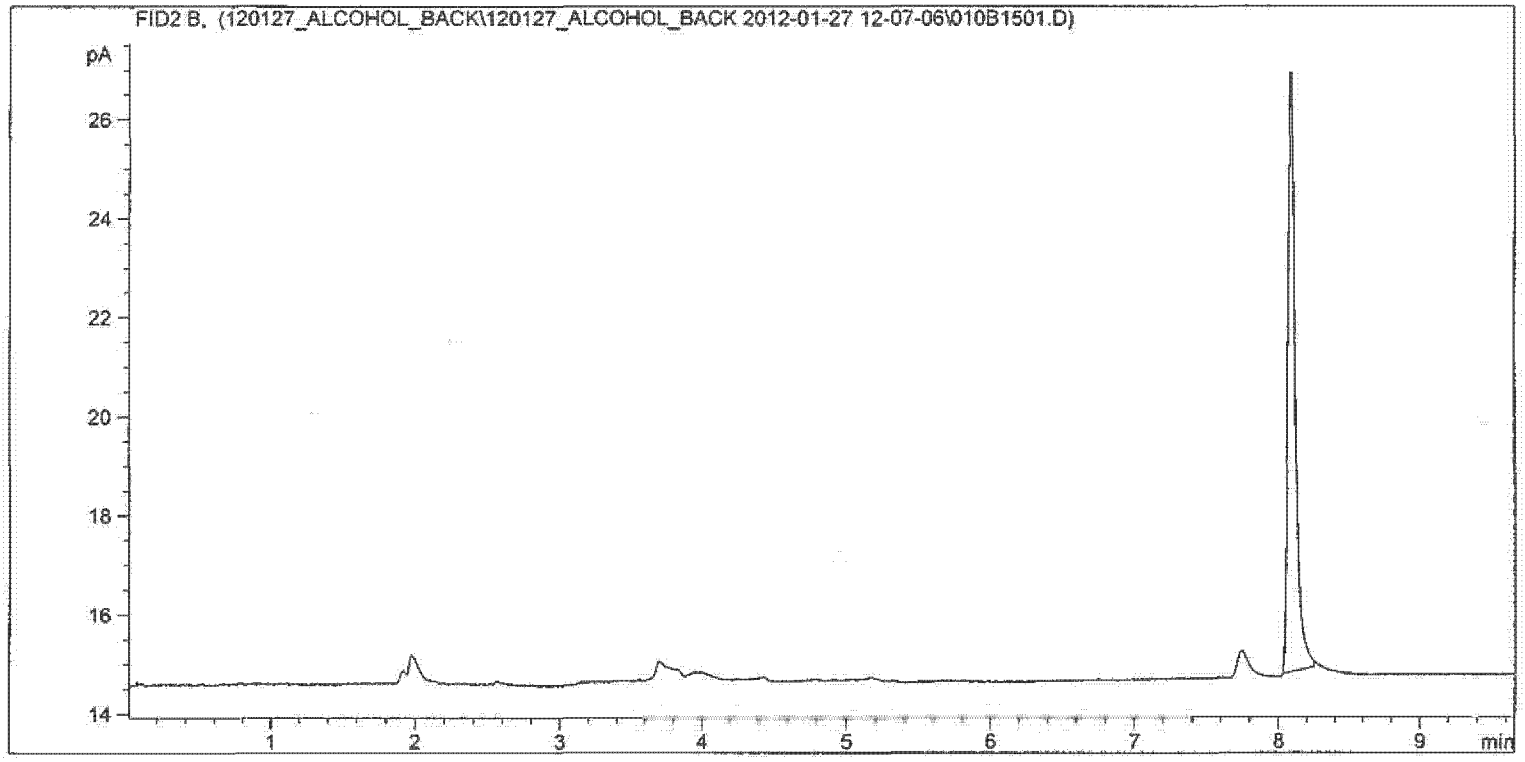
Data File C:\CHEM32\...127_ALCOHOL_BACK\120127_ALCOHOL_BACK 2012-01-27 12-07-06\010B1501.D
Sample Name: 1201013-01

==========

Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 1/27/2012 3:22:20 PM

Seq. Line : 15
Location : Vial 10
Inj : 1
Inj Volume : 0.8 µl

Acq. Method : C:\CHEM32\1\DATA\120127_ALCOHOL_BACK\120127_ALCOHOL_BACK 2012-01-27 12-07-06\ALCOHOLS_BACK.M
Last changed : 1/27/2012 10:56:59 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120127.M
Last changed : 1/27/2012 3:32:38 PM by ACM
Method Info : FID method for Alcohol analysis



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : Friday, January 27, 2012 3:24:18 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

N/D

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.219		-	-	-		Methanol
2.422		-	-	-		Ethanol
3.079		-	-	-		1-Propanol
3.397		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

AG3-6890N 1/27/2012 3:32:46 PM ACM

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report
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Sorted By : Signal
Calib. Data Modified : Friday, January 27, 2012 3:24:18 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.219		0.0000	0.00000	0.00000	Methanol
2	2.422		0.0000	0.00000	0.00000	Ethanol
3	3.079		0.0000	0.00000	0.00000	1-Propanol
4	3.397		0.0000	0.00000	0.00000	2-Butanol
5	4.399		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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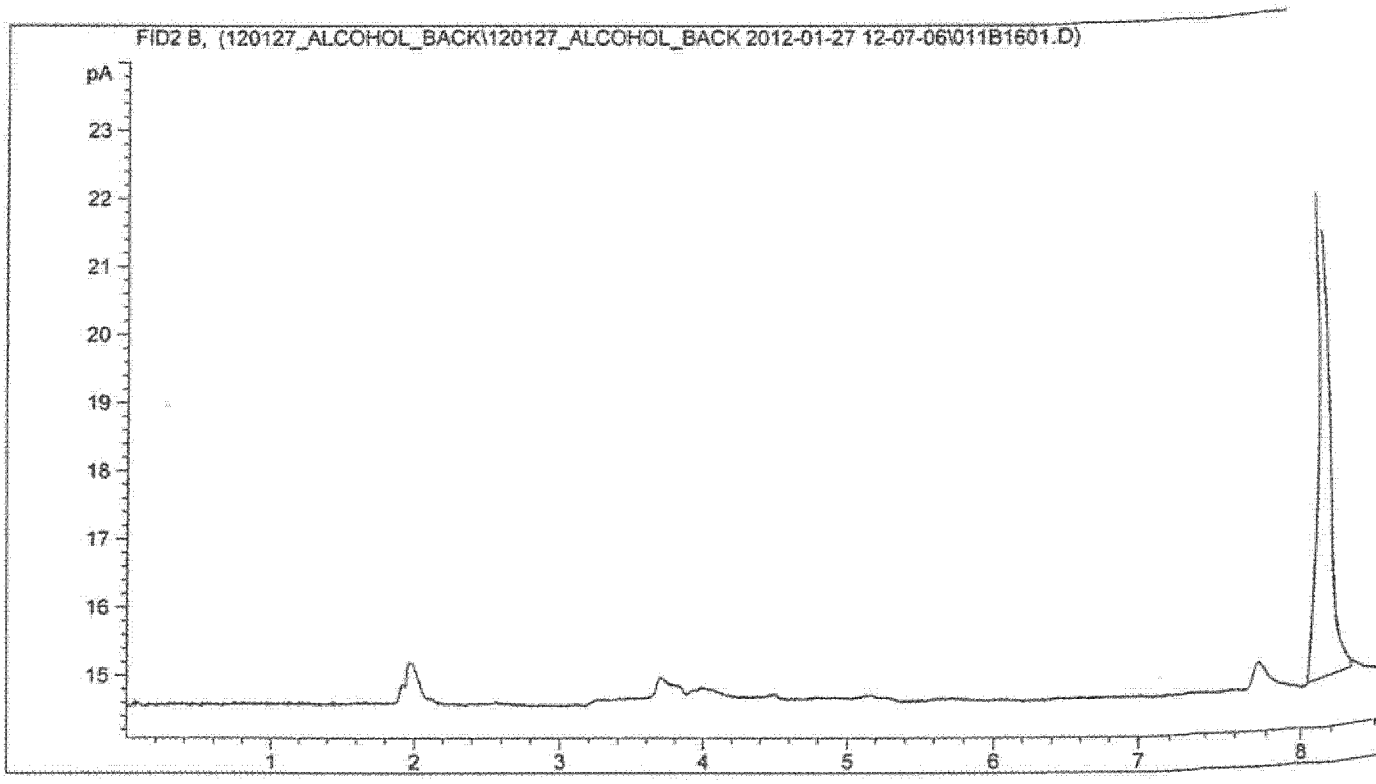
*** End of Report ***

Az

Data File C:\CHEM32\...127_ALCOHOL_BACK\120127_ALCOHOL_BACK 2012-01-27 12-07-06
Sample Name: 1201013-03

Acq. Operator	: ACM	Seq. Line :	16
Acq. Instrument	: AG3-6890N	Location :	Vial 11
Injection Date	: 1/27/2012 3:36:06 PM	Inj :	1
		Inj Volume :	0.8 µl
Acq. Method	: C:\CHEM32\1\DATA\120127_ALCOHOL_BACK\120127_ALCOHOL_BACK 2012-01-27 12-07-06\ALCOHOLS_BACK.M		
Last changed	: 1/27/2012 10:56:59 AM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120127.M		
Last changed	: 1/27/2012 3:32:38 PM by ACM		
Method Info	: FID method for Alcohol analysis		



External Standard Report

Sorted By : Signal
Calib. Data Modified : Friday, January 27, 2012 3:24:18 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

N/D

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.219		-	-	-		Methanol
2.422		-	-	-		Ethanol
3.079		-	-	-		1-Propanol
3.397		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

Am

Data File C:\CHEM32\...127_ALCOHOL_BACK\120127_ALCOHOL_BACK 2012-01-27 12-07-06\011B1601.D
Sample Name: 1201013-03

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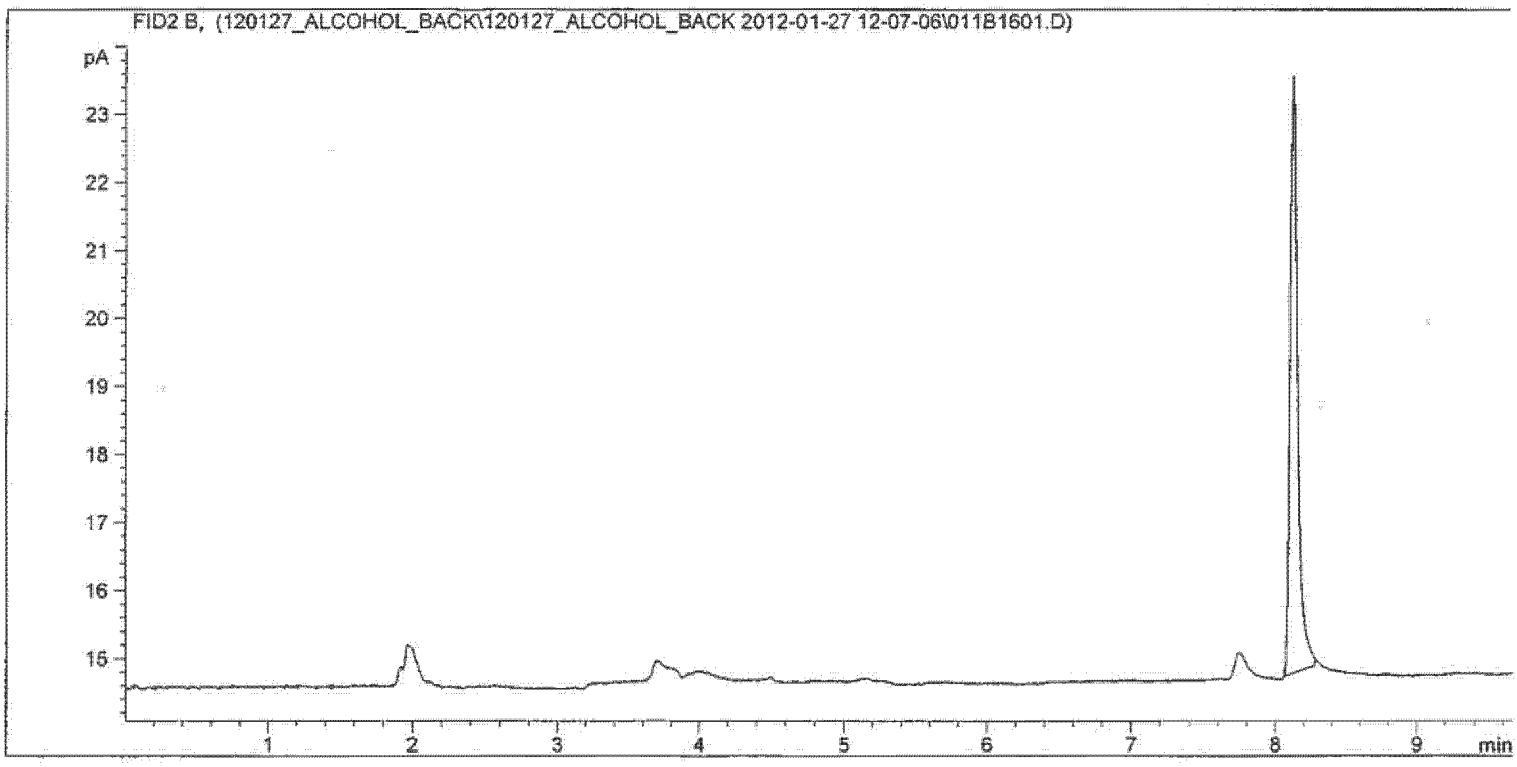
Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 1/27/2012 3:36:06 PM

Seq. Line : 16
Location : Vial 11
Inj : 1
Inj Volume : 0.8 µl

Acq. Method : C:\CHEM32\1\DATA\120127_ALCOHOL_BACK\120127_ALCOHOL_BACK 2012-01-27 12-07-06\ALCOHOLS_BACK.M
Last changed : 1/27/2012 10:56:59 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120127.M
Last changed : 1/27/2012 3:32:38 PM by ACM
Method Info : FID method for Alcohol analysis



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : Friday, January 27, 2012 3:24:18 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

N|D

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.219		-	-	-		Methanol
2.422		-	-	-		Ethanol
3.079		-	-	-		1-Propanol
3.397		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

Am

DIM0213954 DIM0214454

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : Friday, January 27, 2012 3:24:18 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.219		0.0000	0.00000	0.00000	Methanol
2	2.422		0.0000	0.00000	0.00000	Ethanol
3	3.079		0.0000	0.00000	0.00000	1-Propanol
4	3.397		0.0000	0.00000	0.00000	2-Butanol
5	4.399		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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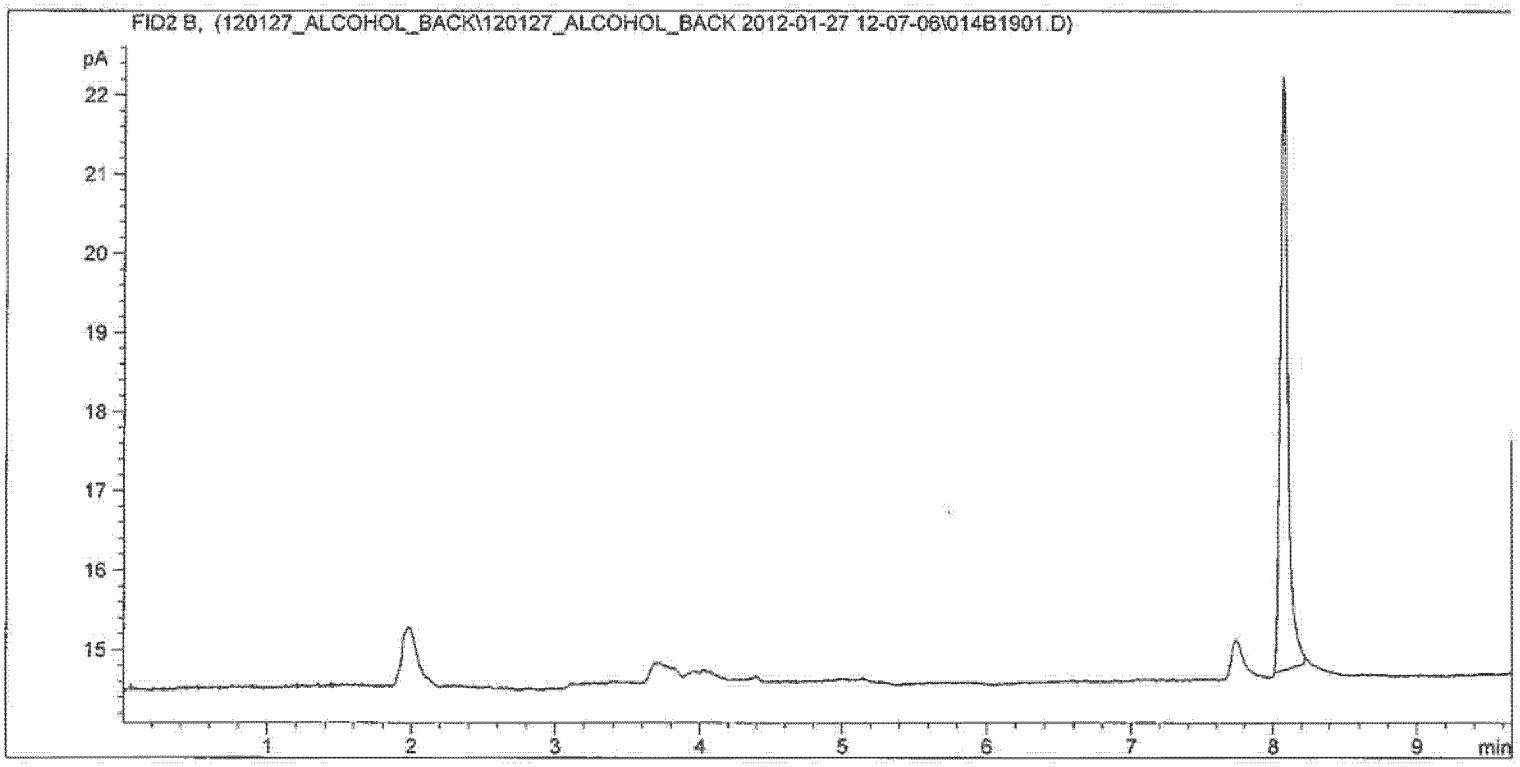
*** End of Report ***

Data File C:\CHEM32\...127_ALCOHOL_BACK\120127_ALCOHOL_BACK 2012-01-27 12-07-06\014B1901.D
Sample Name: 1201013-05

Acq. Operator	: ACM	Seq. Line :	19
Acq. Instrument	: AG3-6890N	Location :	Vial 14
Injection Date	: 1/27/2012 4:17:21 PM	Inj :	1
		Inj Volume :	0.8 µl
Acq. Method	: C:\CHEM32\1\DATA\120127_ALCOHOL_BACK\120127_ALCOHOL_BACK 2012-01-27 12-07-06\ALCOHOLS_BACK.M		
Last changed	: 1/27/2012 10:56:59 AM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120127.M		
Last changed	: 1/27/2012 3:32:38 PM by ACM		
Method Info	: FID method for Alcohol analysis		



External Standard Report

Sorted By : Signal
Calib. Data Modified : Friday, January 27, 2012 3:24:18 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

N/D

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.219		-	-	-		Methanol
2.422		-	-	-		Ethanol
3.079		-	-	-		1-Propanol
3.397		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

An

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : Friday, January 27, 2012 3:24:18 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.219		0.0000	0.00000	0.00000	Methanol
2	2.422		0.0000	0.00000	0.00000	Ethanol
3	3.079		0.0000	0.00000	0.00000	1-Propanol
4	3.397		0.0000	0.00000	0.00000	2-Butanol
5	4.399		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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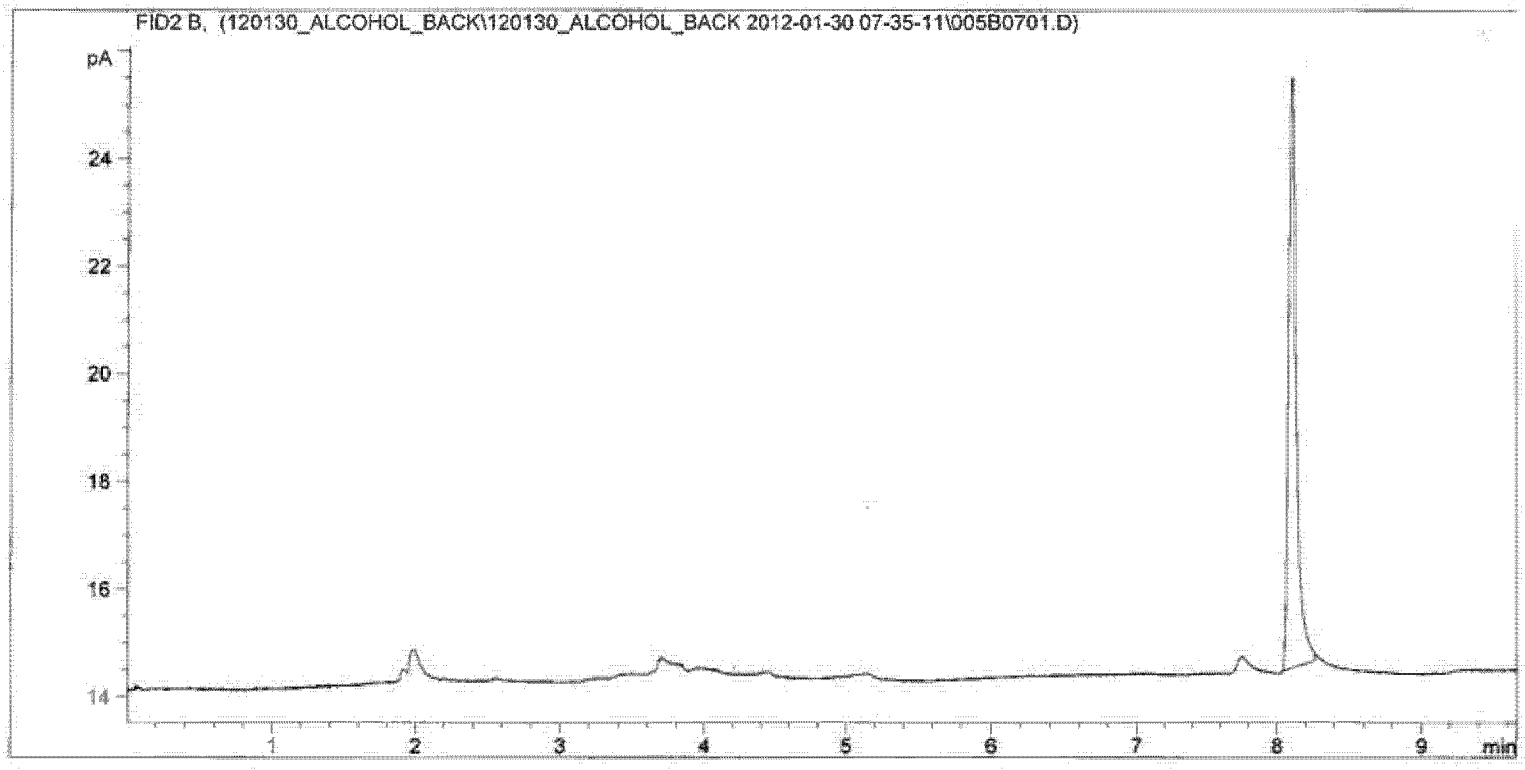
*** End of Report ***

DIM0213954 DIM0214460

Data File C:\CHEM32\...130_ALCOHOL_BACK\120130_ALCOHOL_BACK 2012-01-30 07-35-11\005B0701.D
Sample Name: 1201013-07

Acq. Operator	: ACM	Seq. Line :	7
Acq. Instrument	: AG3-6890N	Location :	Vial 5
Injection Date	: 1/30/2012 9:00:27 AM	Inj :	1
		Inj Volume :	0.8 µl
Acq. Method	: C:\CHEM32\1\DATA\120130_ALCOHOL_BACK\120130_ALCOHOL_BACK 2012-01-30 07-35-11\ALCOHOLS_BACK.M		
Last changed	: 1/27/2012 3:30:25 PM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120127.M		
Last changed	: 1/31/2012 7:20:10 AM by ACM		
Method Info	: FID method for Alcohol analysis		



External Standard Report

Sorted By : Signal
Calib. Data Modified : 1/31/2012 7:19:29 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

ACM

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.224		-	-	-		Methanol
2.431		-	-	-		Ethanol
3.088		-	-	-		1-Propanol
3.406		-	-	-		2-Butanol
4.404		-	-	-		1-Butanol

N/D

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 1/31/2012 7:19:29 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.224		0.0000	0.00000	0.00000	Methanol
2	2.431		0.0000	0.00000	0.00000	Ethanol
3	3.088		0.0000	0.00000	0.00000	1-Propanol
4	3.406		0.0000	0.00000	0.00000	2-Butanol
5	4.404		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

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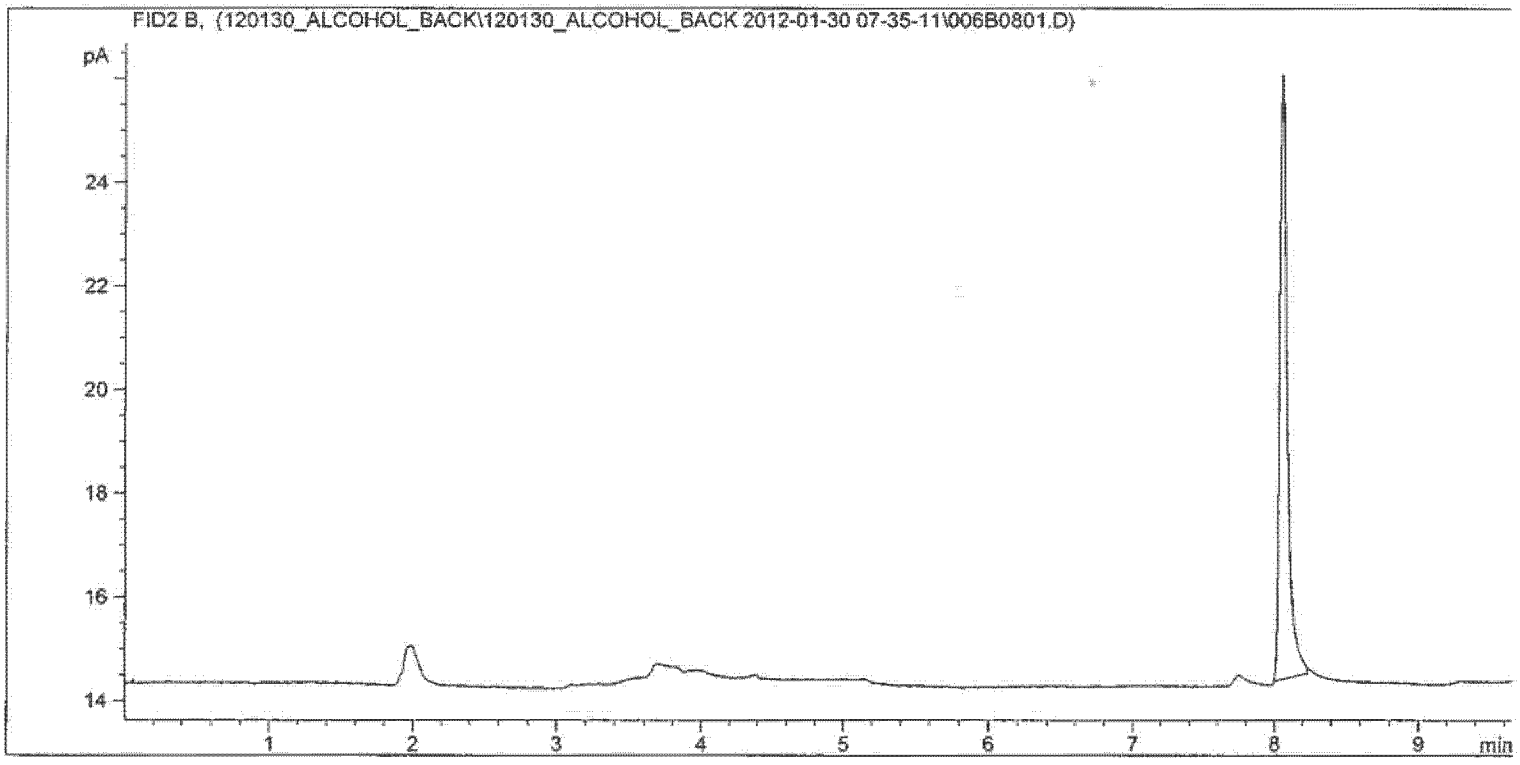
*** End of Report ***

Am

Data File C:\CHEM32\...130_ALCOHOL_BACK\120130_ALCOHOL_BACK 2012-01-30 07-35-11\006B0801.D
Sample Name: 1201013-09

Acq. Operator	: ACM	Seq. Line :	8
Acq. Instrument	: AG3-6890N	Location :	Vial 6
Injection Date	: 1/30/2012 9:14:08 AM	Inj :	1
		Inj Volume :	0.8 µl
Acq. Method	: C:\CHEM32\1\DATA\120130_ALCOHOL_BACK\120130_ALCOHOL_BACK 2012-01-30 07-35-11\ALCOHOLS_BACK.M		
Last changed	: 1/27/2012 3:30:25 PM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120127.M		
Last changed	: 1/31/2012 7:20:10 AM by ACM		
Method Info	: FID method for Alcohol analysis		



External Standard Report

Sorted By : Signal
Calib. Data Modified : 1/31/2012 7:19:29 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Am

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.224		-	-	-		Methanol
2.431		-	-	-		Ethanol
3.088		-	-	-		1-Propanol
3.406		-	-	-		2-Butanol
4.404		-	-	-		1-Butanol

N/D

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

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Area Percent Report
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Sorted By : Signal
Calib. Data Modified : 1/31/2012 7:19:29 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.224		0.0000	0.00000	0.00000	Methanol
2	2.431		0.0000	0.00000	0.00000	Ethanol
3	3.088		0.0000	0.00000	0.00000	1-Propanol
4	3.406		0.0000	0.00000	0.00000	2-Butanol
5	4.404		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

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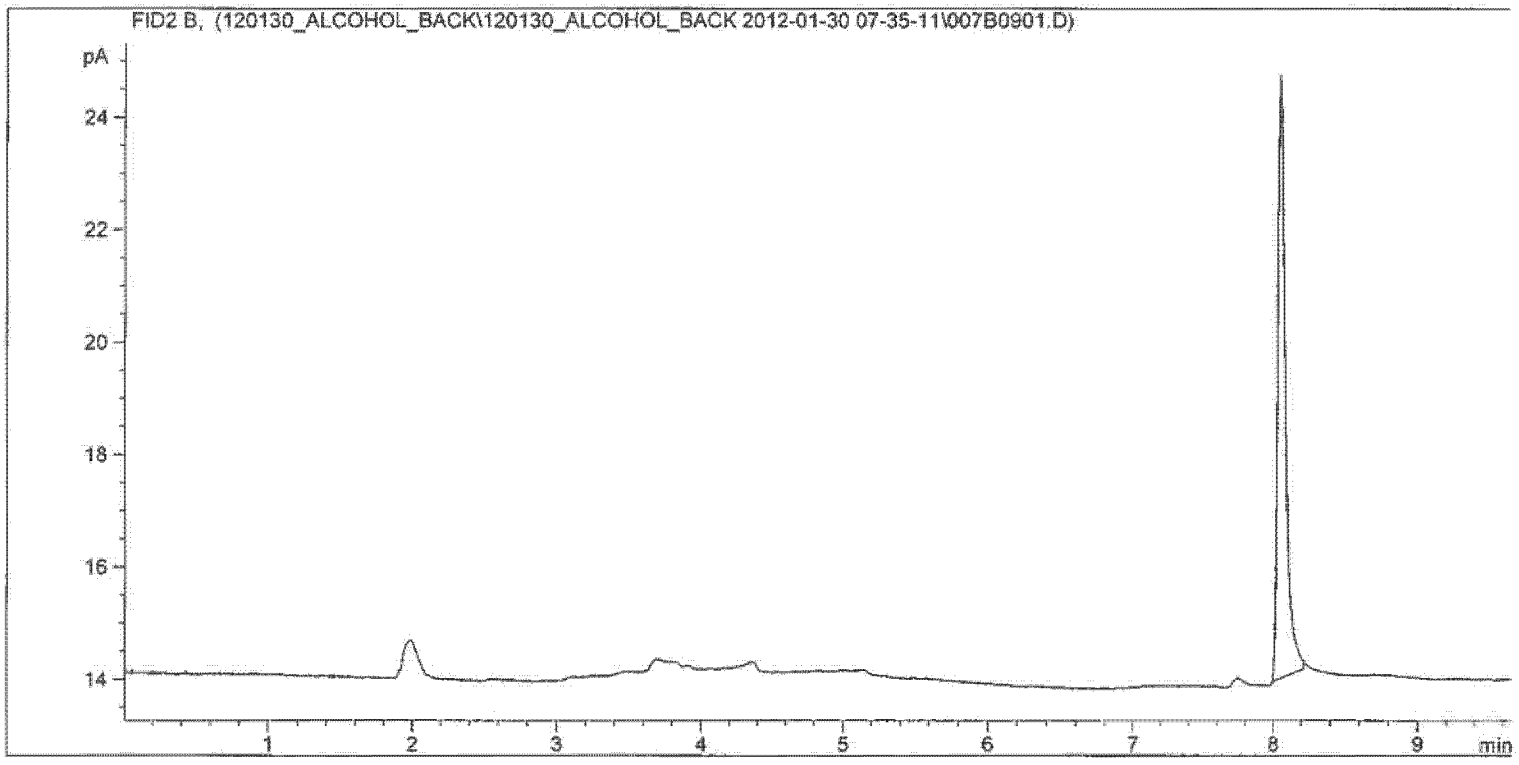
*** End of Report ***

AM

Data File C:\CHEM32\...130_ALCOHOL_BACK\120130_ALCOHOL_BACK 2012-01-30 07-35-11\007B0901.D
Sample Name: 1201013-12

Acq. Operator	: ACM	Seq. Line :	9
Acq. Instrument	: AG3-6890N	Location :	Vial 7
Injection Date	: 1/30/2012 9:27:52 AM	Inj :	1
		Inj Volume :	0.8 µl
Acq. Method	: C:\CHEM32\1\DATA\120130_ALCOHOL_BACK\120130_ALCOHOL_BACK 2012-01-30 07-35-11\ALCOHOLS_BACK.M		
Last changed	: 1/27/2012 3:30:25 PM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120127.M		
Last changed	: 1/31/2012 7:20:10 AM by ACM		
Method Info	: FID method for Alcohol analysis		



External Standard Report

Sorted By : Signal
Calib. Data Modified : 1/31/2012 7:19:29 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.224		-	-	-		Methanol
2.431		-	-	-		Ethanol
3.088		-	-	-		1-Propanol
3.406		-	-	-		2-Butanol
4.404		-	-	-		1-Butanol

N/D

Am

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 1/31/2012 7:19:29 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.224		0.0000	0.00000	0.00000	Methanol
2	2.431		0.0000	0.00000	0.00000	Ethanol
3	3.088		0.0000	0.00000	0.00000	1-Propanol
4	3.406		0.0000	0.00000	0.00000	2-Butanol
5	4.404		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

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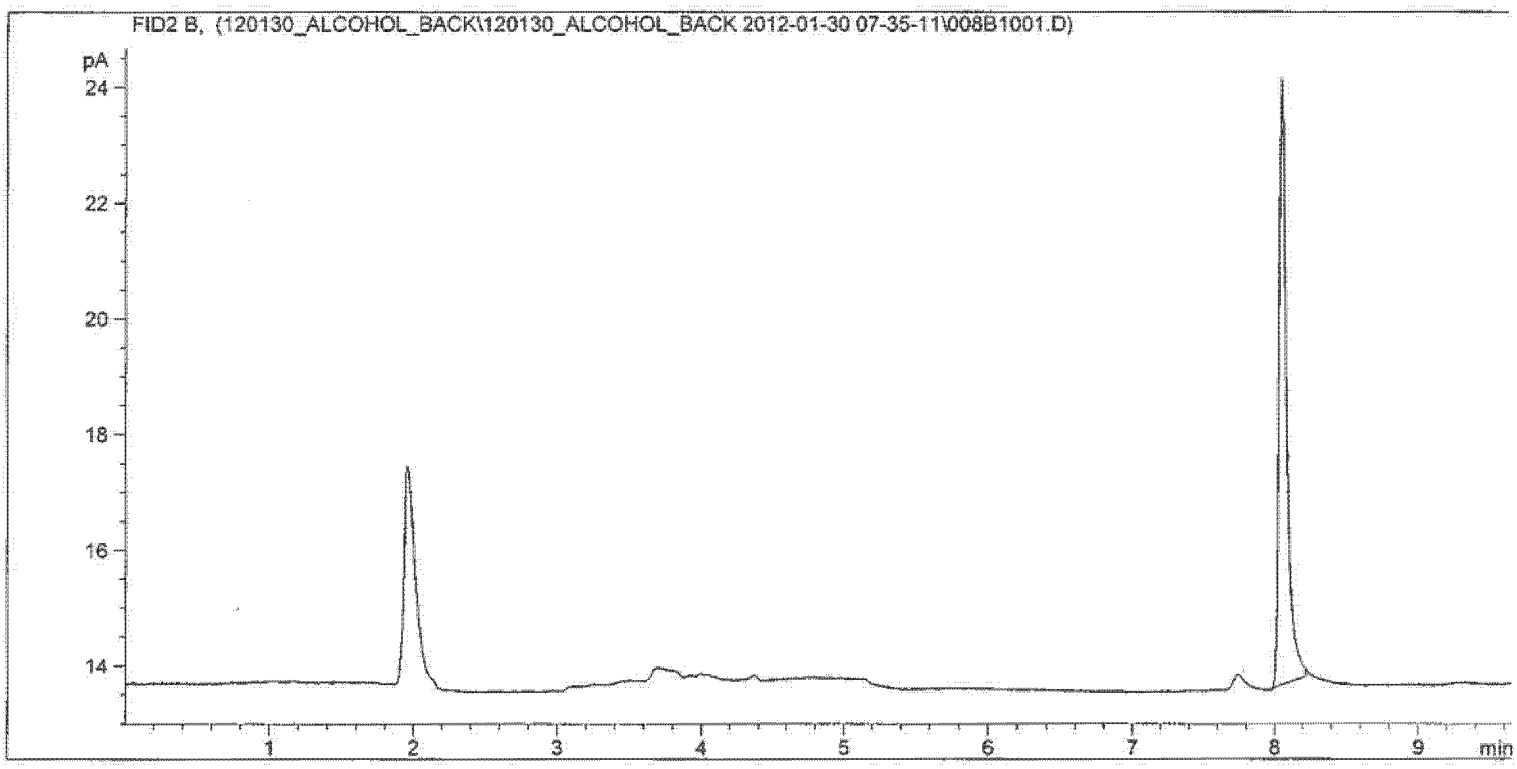
*** End of Report ***

Aten

Data File C:\CHEM32\...130_ALCOHOL_BACK\120130_ALCOHOL_BACK 2012-01-30 07-35-11\008B1001.D
Sample Name: 1201013-13

Acq. Operator	: ACM	Seq. Line :	10
Acq. Instrument	: AG3-6890N	Location :	Vial 8
Injection Date	: 1/30/2012 9:41:35 AM	Inj :	1
		Inj Volume :	0.8 µl
Acq. Method	: C:\CHEM32\1\DATA\120130_ALCOHOL_BACK\120130_ALCOHOL_BACK 2012-01-30 07-35-11\ALCOHOLS_BACK.M		
Last changed	: 1/27/2012 3:30:25 PM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120127.M		
Last changed	: 1/31/2012 7:20:10 AM by ACM		
Method Info	: FID method for Alcohol analysis		



External Standard Report

Sorted By : Signal
Calib. Data Modified : 1/31/2012 7:19:29 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.224		-	-	-		Methanol
2.431		-	-	-		Ethanol
3.088		-	-	-		1-Propanol
3.406		-	-	-		2-Butanol
4.404		-	-	-		1-Butanol

N/D

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 1/31/2012 7:19:29 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.224		0.0000	0.00000	0.00000	Methanol
2	2.431		0.0000	0.00000	0.00000	Ethanol
3	3.088		0.0000	0.00000	0.00000	1-Propanol
4	3.406		0.0000	0.00000	0.00000	2-Butanol
5	4.404		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

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*** End of Report ***

An

Data File C:\CHEM32\...130_ALCOHOL_BACK\120130_ALCOHOL_BACK 2012-01-30 07-35-11\009B1101.D
Sample Name: 1201013-14

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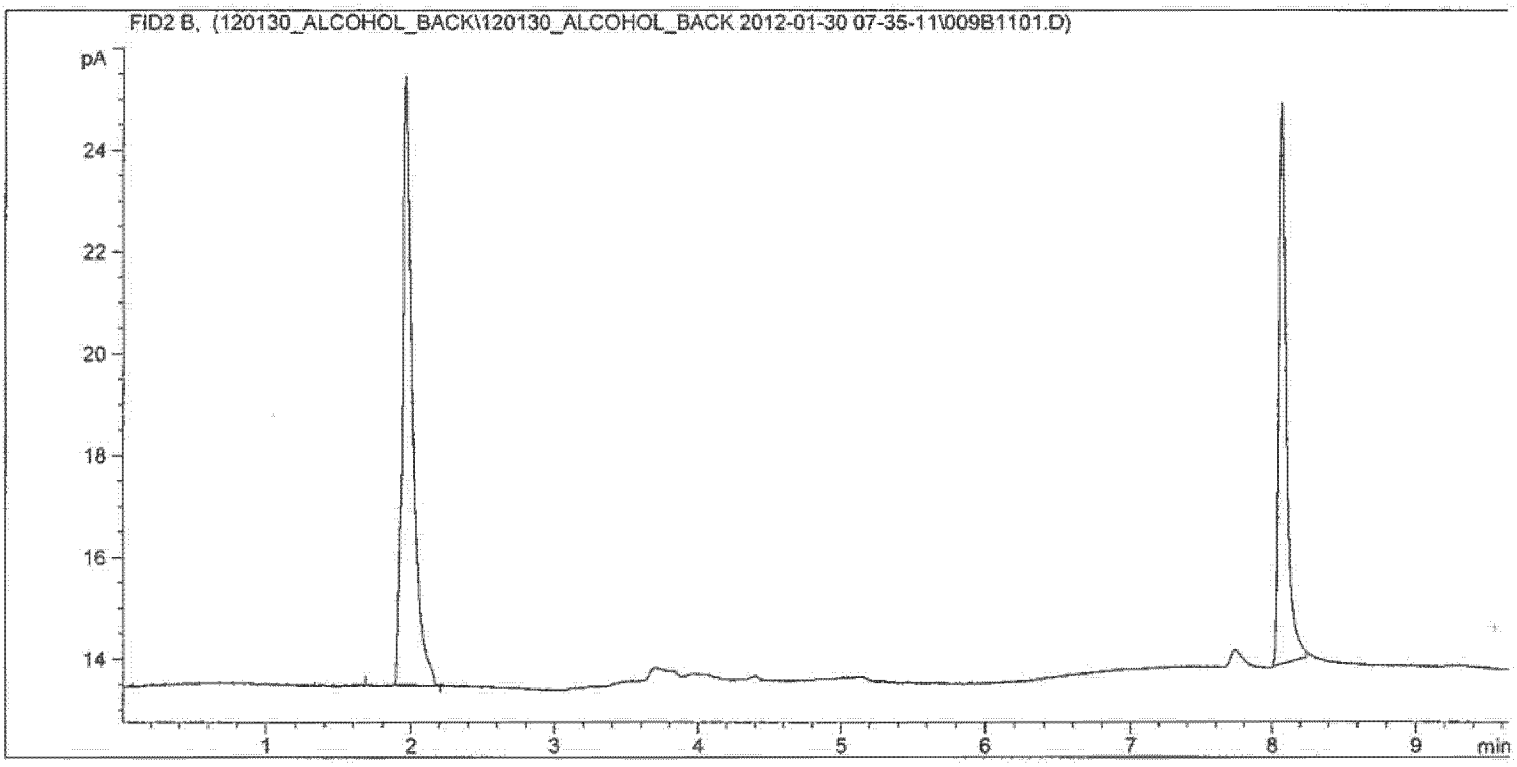
Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 1/30/2012 9:55:19 AM
Seq. Line : 11
Location : Vial 9
Inj : 1
Inj Volume : 0.8 µl
Acq. Method : C:\CHEM32\1\DATA\120130_ALCOHOL_BACK\120130_ALCOHOL_BACK 2012-01-30 07-35-11\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120127.M
Last changed : 1/31/2012 7:20:10 AM by ACM
Method Info : FID method for Alcohol analysis



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 1/31/2012 7:19:29 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.224		-	-	-		Methanol
2.431		-	-	-		Ethanol
3.088		-	-	-		1-Propanol
3.406		-	-	-		2-Butanol
4.404		-	-	-		1-Butanol

Ar

N|D

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 1/31/2012 7:19:29 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.224		0.0000	0.00000	0.00000	Methanol
2	2.431		0.0000	0.00000	0.00000	Ethanol
3	3.088		0.0000	0.00000	0.00000	1-Propanol
4	3.406		0.0000	0.00000	0.00000	2-Butanol
5	4.404		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

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*** End of Report ***

Data File C:\CHEM32\...130_ALCOHOL_BACK\120130_ALCOHOL_BACK 2012-01-30 07-35-11\010B1201.D
Sample Name: 1201013-15

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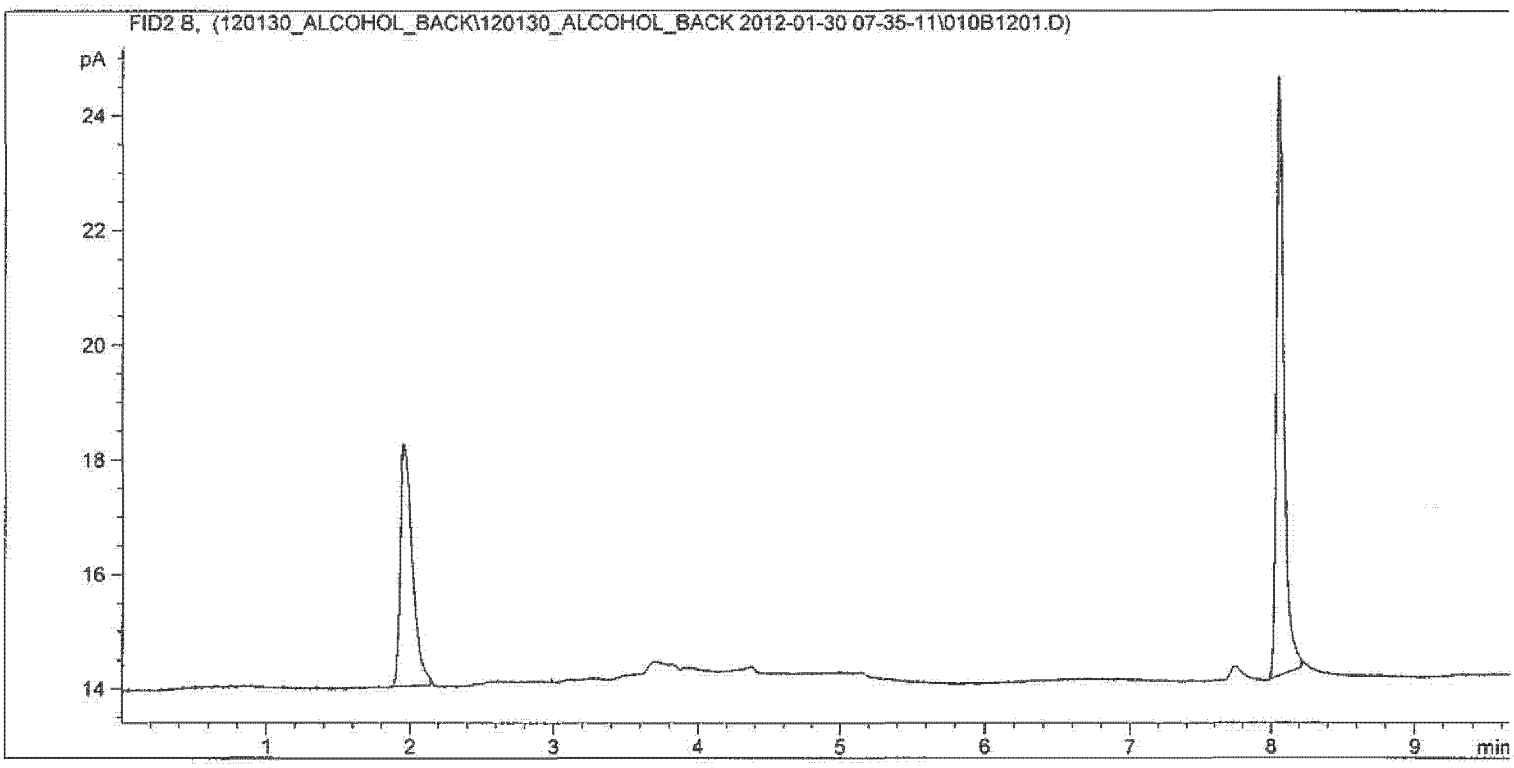
Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 1/30/2012 10:08:59 AM
Seq. Line : 12
Location : Vial 10
Inj : 1
Inj Volume : 0.8 µl
Acq. Method : C:\CHEM32\1\DATA\120130_ALCOHOL_BACK\120130_ALCOHOL_BACK 2012-01-30 07-35-11\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120127.M
Last changed : 1/31/2012 7:20:10 AM by ACM
Method Info : FID method for Alcohol analysis



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 1/31/2012 7:19:29 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

N|D

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.224		-	-	-		Methanol
2.431		-	-	-		Ethanol
3.088		-	-	-		1-Propanol
3.406		-	-	-		2-Butanol
4.404		-	-	-		1-Butanol

Am

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 1/31/2012 7:19:29 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.224		0.0000	0.00000	0.00000	Methanol
2	2.431		0.0000	0.00000	0.00000	Ethanol
3	3.088		0.0000	0.00000	0.00000	1-Propanol
4	3.406		0.0000	0.00000	0.00000	2-Butanol
5	4.404		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

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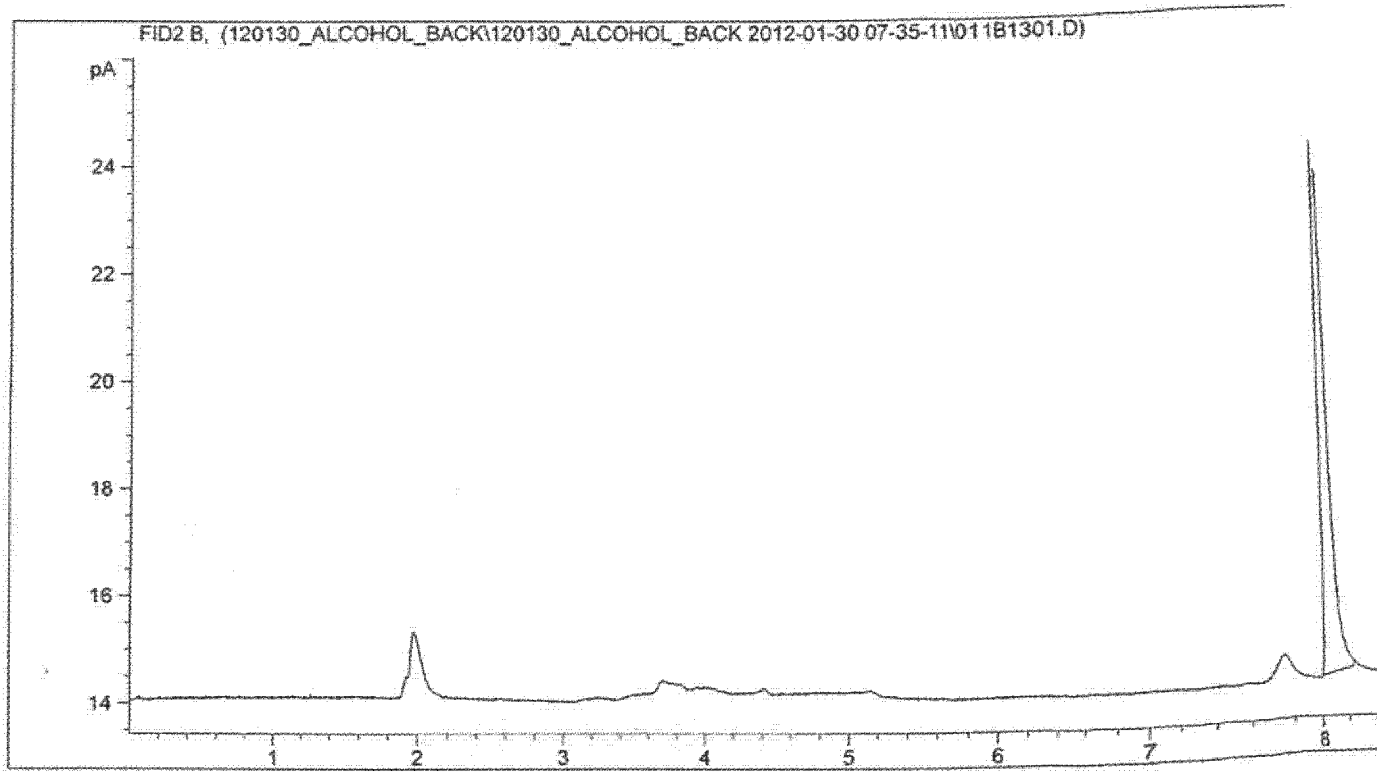
*** End of Report ***

Data File C:\CHEM32\...130_ALCOHOL_BACK\120130_ALCOHOL_BACK 2012-01-30 07-35-11
Sample Name: 1201013-16

Acq. Operator	: ACM	Seq. Line :	13
Acq. Instrument	: AG3-6890N	Location :	Vial 11
Injection Date	: 1/30/2012 10:22:40 AM	Inj :	1
		Inj Volume :	0.8 µl
Acq. Method	: C:\CHEM32\1\DATA\120130_ALCOHOL_BACK\120130_ALCOHOL_BACK 20 11\ALCOHOLS_BACK.M		
Last changed	: 1/27/2012 3:30:25 PM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120127.M		
Last changed	: 1/31/2012 7:20:10 AM by ACM		
Method Info	: FID method for Alcohol analysis		



External Standard Report

Sorted By : Signal
Calib. Data Modified : 1/31/2012 7:19:29 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

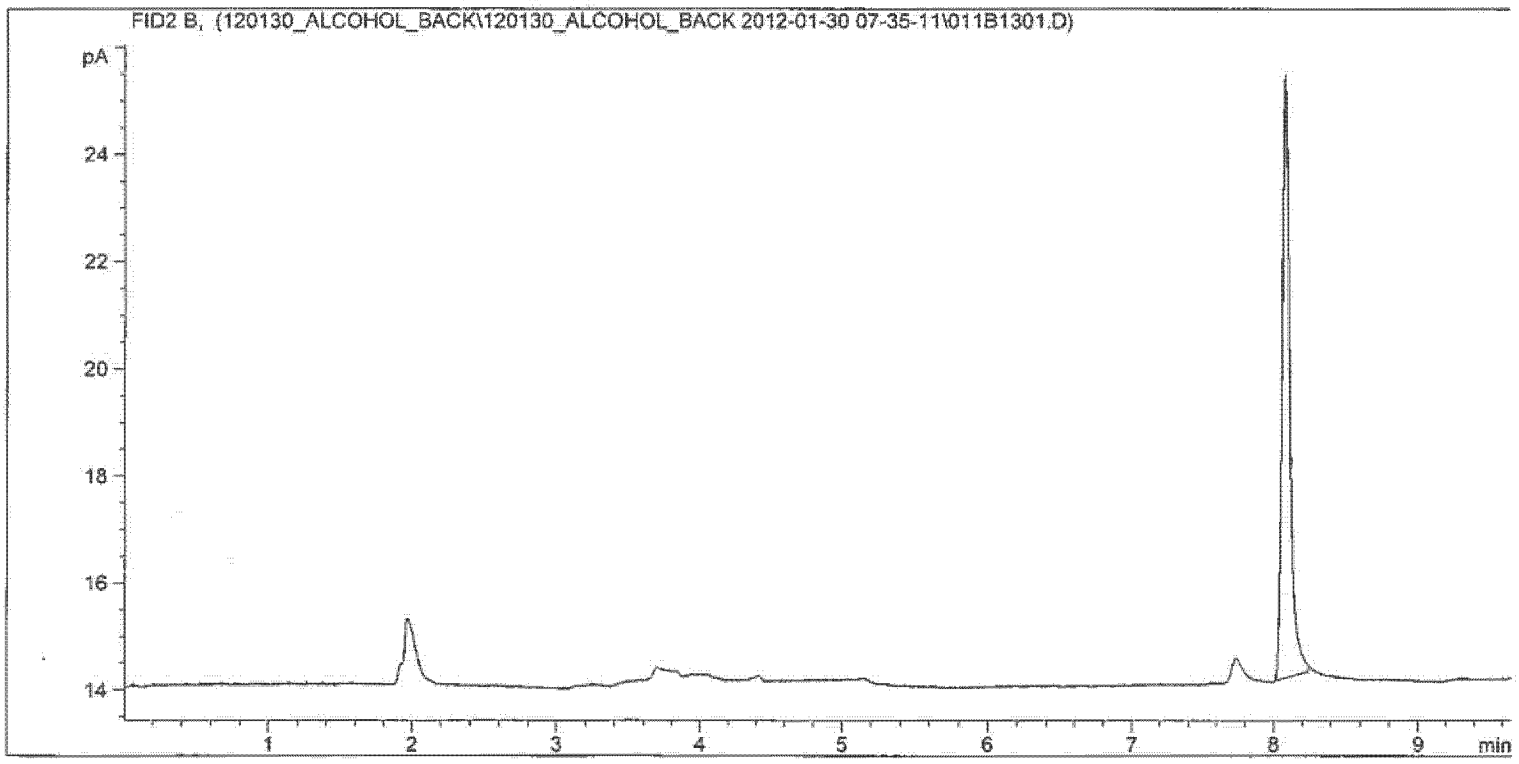
RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.224		-	-	-		Methanol
2.431		-	-	-		Ethanol
3.088		-	-	-		1-Propanol
3.406		-	-	-		2-Butanol
4.404		-	-	-		1-Butanol

Acr

N|C

Data File C:\CHEM32\...130_ALCOHOL_BACK\120130_ALCOHOL_BACK 2012-01-30 07-35-11\011B1301.D
Sample Name: 1201013-16

Acq. Operator	: ACM	Seq. Line	: 13
Acq. Instrument	: AG3-6890N	Location	: Vial 11
Injection Date	: 1/30/2012 10:22:40 AM	Inj	: 1
		Inj Volume	: 0.8 µl
Acq. Method	: C:\CHEM32\1\DATA\120130_ALCOHOL_BACK\120130_ALCOHOL_BACK 2012-01-30 07-35-11\ALCOHOLS_BACK.M		
Last changed	: 1/27/2012 3:30:25 PM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120127.M		
Last changed	: 1/31/2012 7:20:10 AM by ACM		
Method Info	: FID method for Alcohol analysis		



External Standard Report

Sorted By : Signal
Calib. Data Modified : 1/31/2012 7:19:29 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Am

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.224		-	-	-		Methanol
2.431		-	-	-		Ethanol
3.088		-	-	-		1-Propanol
3.406		-	-	-		2-Butanol
4.404		-	-	-		1-Butanol

N/D

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 1/31/2012 7:19:29 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.224		0.0000	0.00000	0.00000	Methanol
2	2.431		0.0000	0.00000	0.00000	Ethanol
3	3.088		0.0000	0.00000	0.00000	1-Propanol
4	3.406		0.0000	0.00000	0.00000	2-Butanol
5	4.404		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

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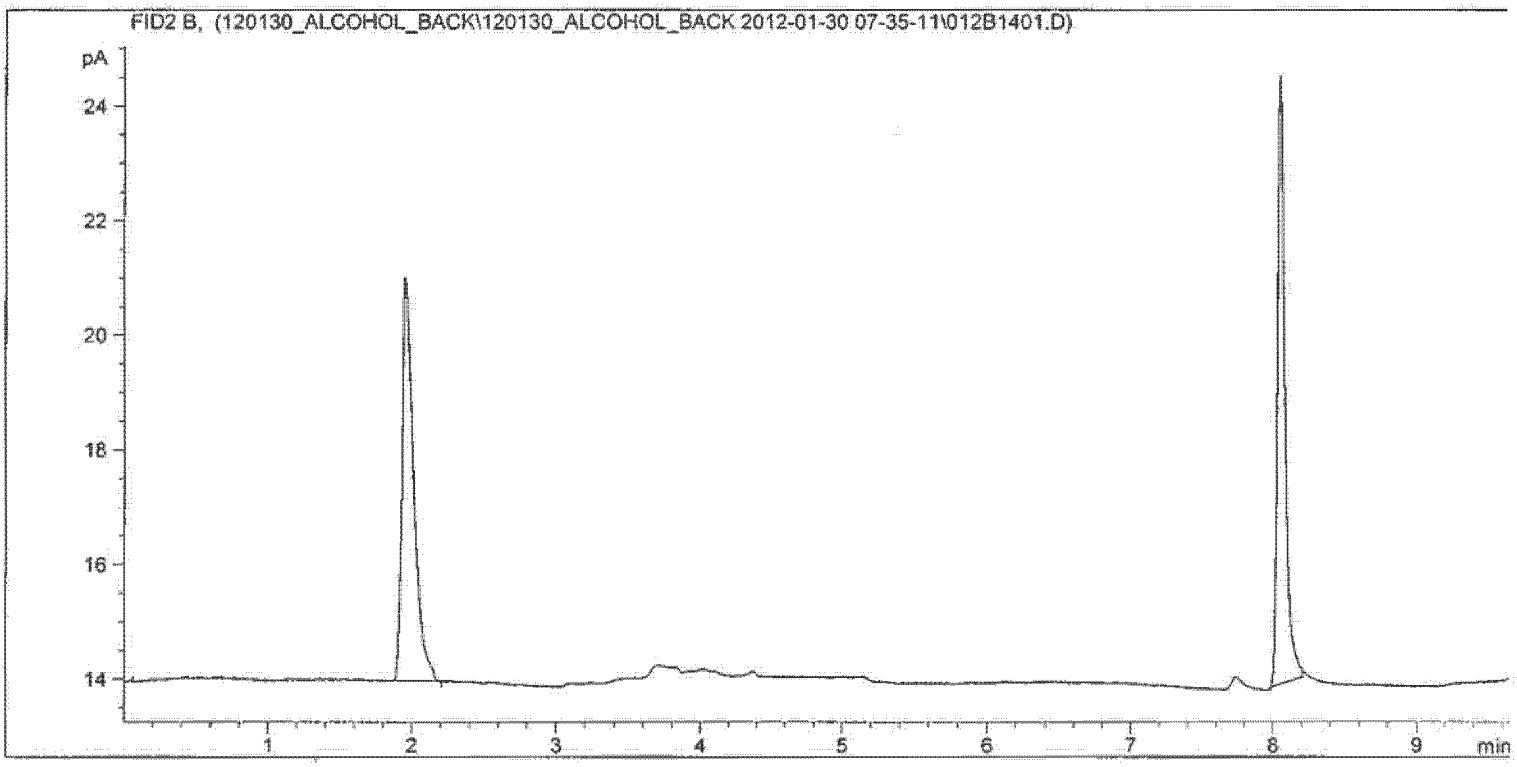
*** End of Report ***

ACM

Acq. Operator	: ACM	Seq. Line	: 14
Acq. Instrument	: AG3-6890N	Location	: Vial 12
Injection Date	: 1/30/2012 10:36:26 AM	Inj	: 1
		Inj Volume	: 0.8 µl
Acq. Method	: C:\CHEM32\1\DATA\120130_ALCOHOL_BACK\120130_ALCOHOL_BACK 2012-01-30 07-35-11\ALCOHOLS_BACK.M		
Last changed	: 1/27/2012 3:30:25 PM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120127.M		
Last changed	: 1/31/2012 7:20:10 AM by ACM		
Method Info	: FID method for Alcohol analysis		



External Standard Report

Sorted By : Signal
Calib. Data Modified : 1/31/2012 7:19:29 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Am

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.224		-	-	-		Methanol
2.431		-	-	-		Ethanol
3.088		-	-	-		1-Propanol
3.406		-	-	-		2-Butanol
4.404		-	-	-		1-Butanol

N|D

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 1/31/2012 7:19:29 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.224		0.0000	0.00000	0.00000	Methanol
2	2.431		0.0000	0.00000	0.00000	Ethanol
3	3.088		0.0000	0.00000	0.00000	1-Propanol
4	3.406		0.0000	0.00000	0.00000	2-Butanol
5	4.404		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

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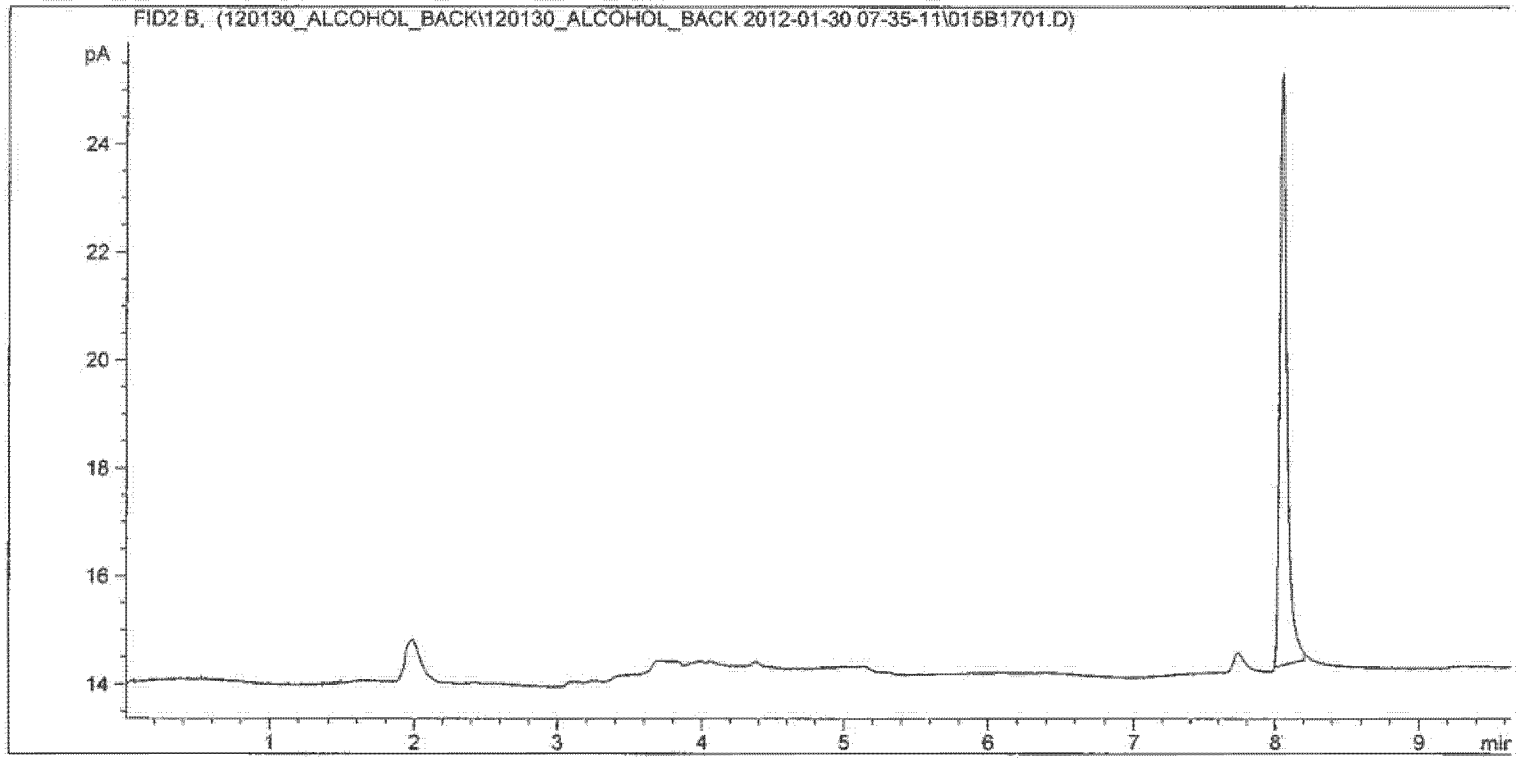
*** End of Report ***

Data File C:\CHEM32\...130_ALCOHOL_BACK\120130_ALCOHOL_BACK 2012-01-30 07-35-11\015B1701.D
Sample Name: 1201013-28

Acq. Operator	: ACM	Seq. Line	: 17
Acq. Instrument	: AG3-6890N	Location	: Vial 15
Injection Date	: 1/30/2012 11:17:37 AM	Inj	: 1
		Inj Volume	: 0.8 µl
Acq. Method	: C:\CHEM32\1\DATA\120130_ALCOHOL_BACK\120130_ALCOHOL_BACK 2012-01-30 07-35-11\ALCOHOLS_BACK.M		
Last changed	: 1/27/2012 3:30:25 PM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120127.M		
Last changed	: 1/31/2012 7:20:10 AM by ACM		
Method Info	: FID method for Alcohol analysis		



External Standard Report

Sorted By : Signal
Calib. Data Modified : 1/31/2012 7:19:29 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.224		-	-	-		Methanol
2.431		-	-	-		Ethanol
3.088		-	-	-		1-Propanol
3.406		-	-	-		2-Butanol
4.404		-	-	-		1-Butanol

Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 1/31/2012 7:19:29 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.224		0.0000	0.00000	0.00000	Methanol
2	2.431		0.0000	0.00000	0.00000	Ethanol
3	3.088		0.0000	0.00000	0.00000	1-Propanol
4	3.406		0.0000	0.00000	0.00000	2-Butanol
5	4.404		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

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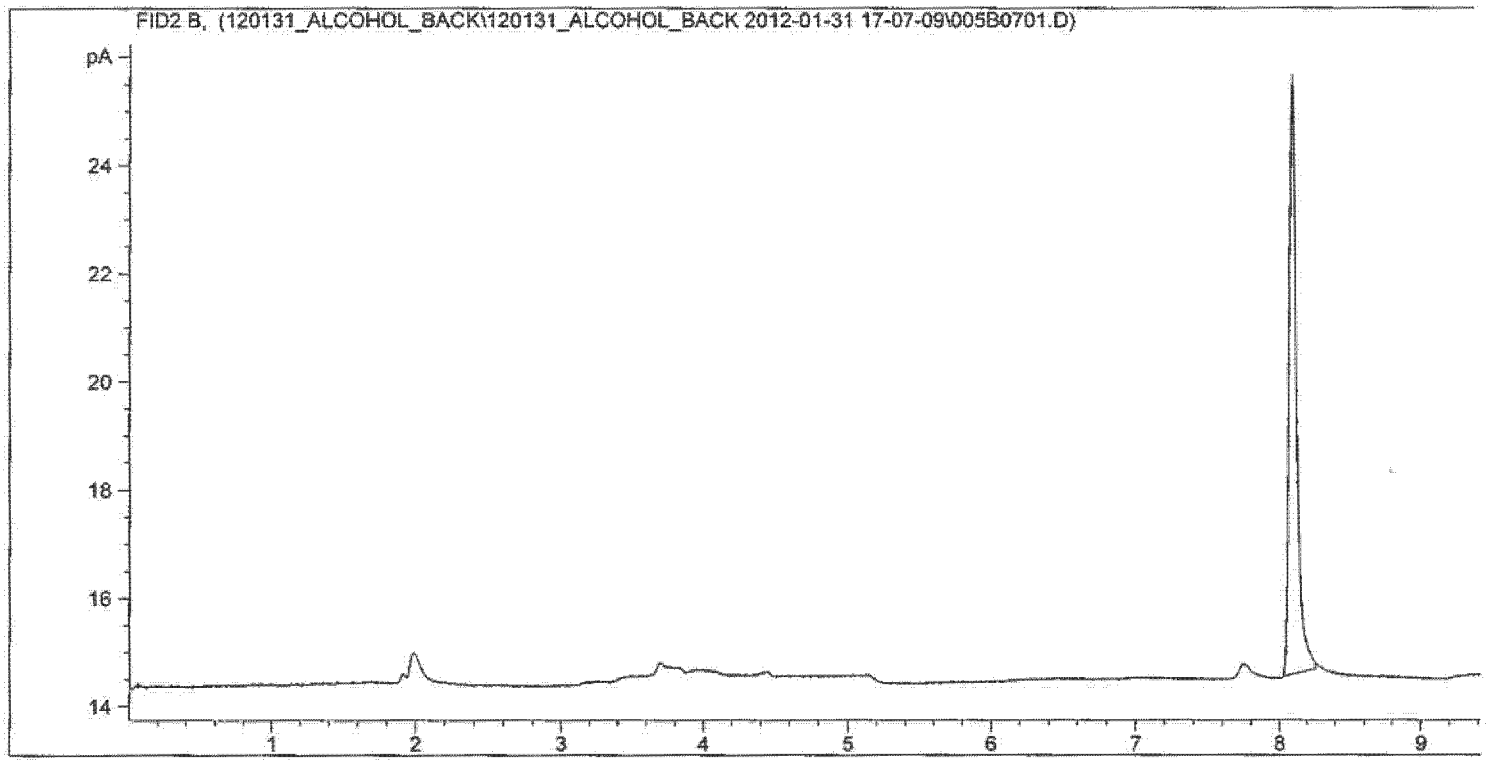
*** End of Report ***

Am

Data File C:\CHEM32\...131_ALCOHOL_BACK\120131_ALCOHOL_BACK 2012-01-31 17-07-09\005B0701.D
Sample Name: 1201013-29

Acq. Operator	: ACM	Seq. Line :	7
Acq. Instrument	: AG3-6890N	Location :	Vial 5
Injection Date	: 1/31/2012 6:32:29 PM	Inj :	1
		Inj Volume :	0.8 µl
Acq. Method	: C:\CHEM32\1\DATA\120131_ALCOHOL_BACK\120131_ALCOHOL_BACK 2012-01-31 17-07-09\ALCOHOLS_BACK.M		
Last changed	: 1/27/2012 3:30:25 PM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120131.M		
Last changed	: 2/1/2012 7:43:33 AM by ACM		
Method Info	: FID method for Alcohol analysis		



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/1/2012 7:43:27 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.222		-	-	-		Methanol
2.430		-	-	-		Ethanol
3.087		-	-	-		1-Propanol
3.405		-	-	-		2-Butanol
4.404		-	-	-		1-Butanol

Am

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 2/1/2012 7:43:27 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.222		0.0000	0.00000	0.00000	Methanol
2	2.430		0.0000	0.00000	0.00000	Ethanol
3	3.087		0.0000	0.00000	0.00000	1-Propanol
4	3.405		0.0000	0.00000	0.00000	2-Butanol
5	4.404		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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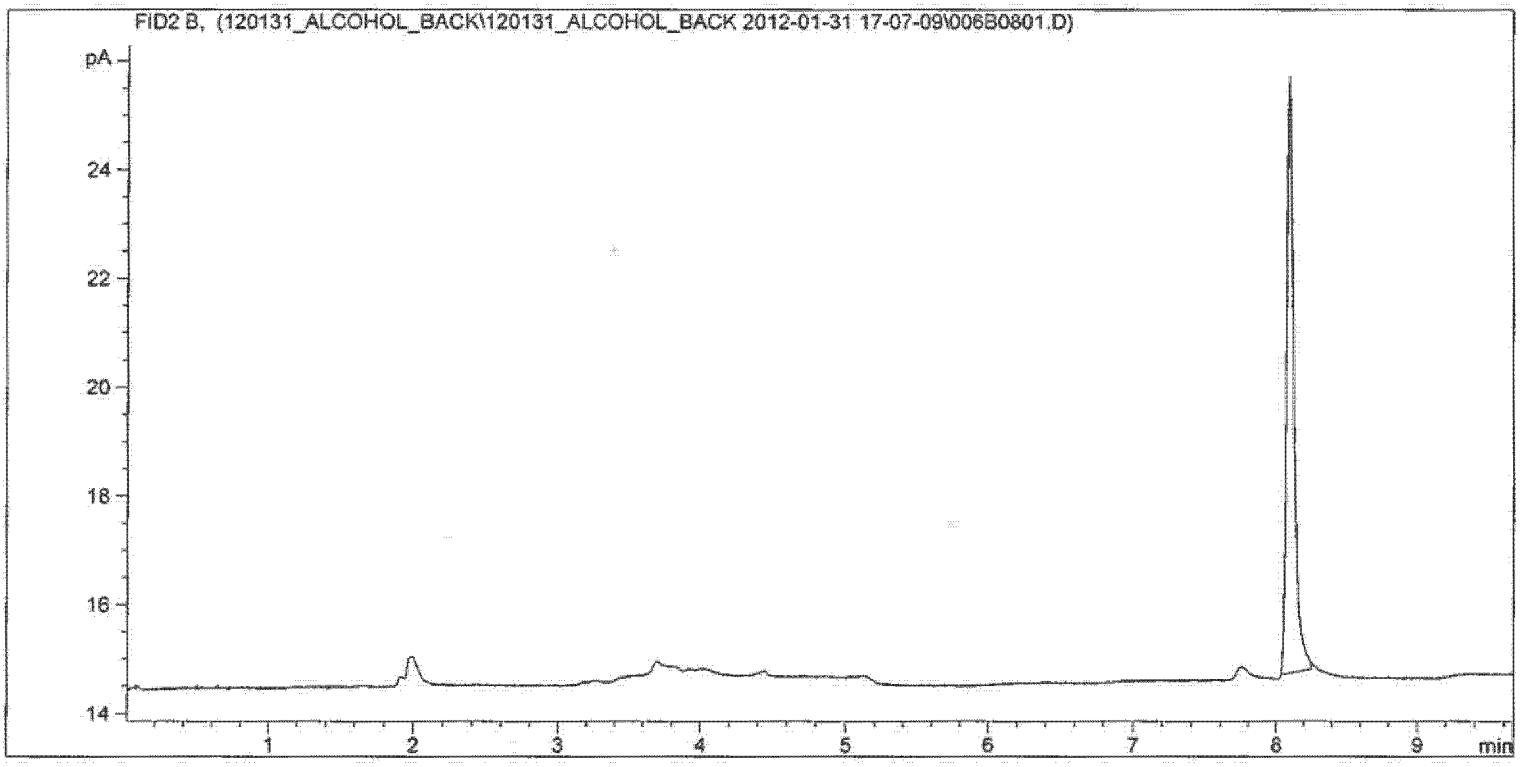
*** End of Report ***

Acq. Operator	: ACM	Seq. Line :	8
Acq. Instrument	: AG3-6890N	Location :	Vial 6
Injection Date	: 1/31/2012 6:46:13 PM	Inj :	1
		Inj Volume :	0.8 µl
Acq. Method	: C:\CHEM32\1\DATA\120131_ALCOHOL_BACK\120131_ALCOHOL_BACK 2012-01-31 17-07-09\ALCOHOLS_BACK.M		
Last changed	: 1/27/2012 3:30:25 PM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120131.M		
Last changed	: 2/1/2012 7:43:33 AM by ACM		
Method Info	: FID method for Alcohol analysis		



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/1/2012 7:43:27 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.222		-	-	-		Methanol
2.430		-	-	-		Ethanol
3.087		-	-	-		1-Propanol
3.405		-	-	-		2-Butanol
4.404		-	-	-		1-Butanol

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 2/1/2012 7:43:27 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.222		0.0000	0.00000	0.00000	Methanol
2	2.430		0.0000	0.00000	0.00000	Ethanol
3	3.087		0.0000	0.00000	0.00000	1-Propanol
4	3.405		0.0000	0.00000	0.00000	2-Butanol
5	4.404		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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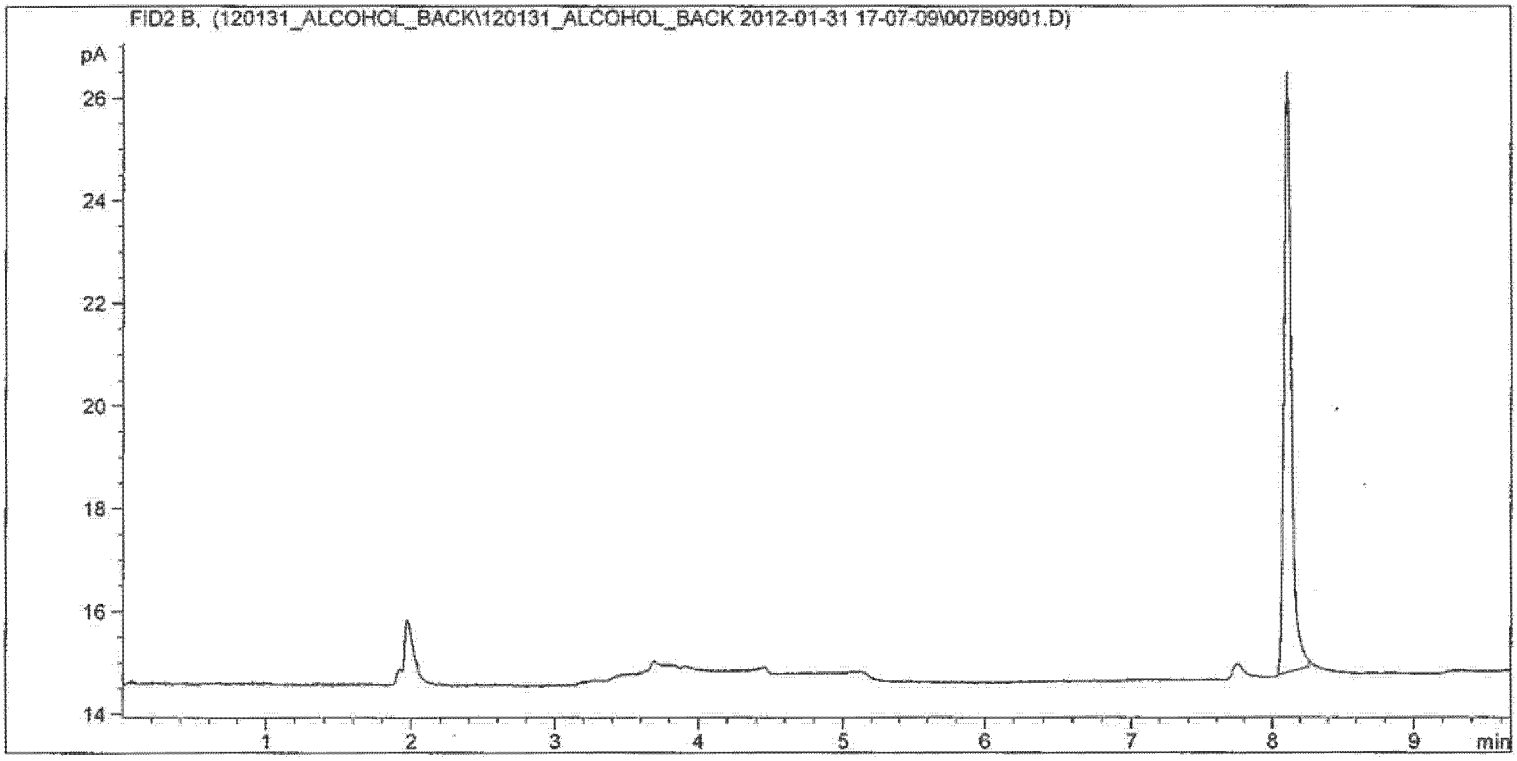
*** End of Report ***

AM

Data File C:\CHEM32\...131_ALCOHOL_BACK\120131_ALCOHOL_BACK 2012-01-31 17-07-09\007B0901.D
Sample Name: 1201013-31

Acq. Operator	: ACM	Seq. Line :	9
Acq. Instrument	: AG3-6890N	Location :	Vial 7
Injection Date	: 1/31/2012 6:59:56 PM	Inj :	1
		Inj Volume :	0.8 µl
Acq. Method	: C:\CHEM32\1\DATA\120131_ALCOHOL_BACK\120131_ALCOHOL_BACK 2012-01-31 17-07-09\ALCOHOLS_BACK.M		
Last changed	: 1/27/2012 3:30:25 PM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120131.M		
Last changed	: 2/1/2012 7:43:33 AM by ACM		
Method Info	: FID method for Alcohol analysis		



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/1/2012 7:43:27 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.222		-	-	-		Methanol
2.430		-	-	-		Ethanol
3.087		-	-	-		1-Propanol
3.405		-	-	-		2-Butanol
4.404		-	-	-		1-Butanol

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 2/1/2012 7:43:27 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.222		0.0000	0.00000	0.00000	Methanol
2	2.430		0.0000	0.00000	0.00000	Ethanol
3	3.087		0.0000	0.00000	0.00000	1-Propanol
4	3.405		0.0000	0.00000	0.00000	2-Butanol
5	4.404		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

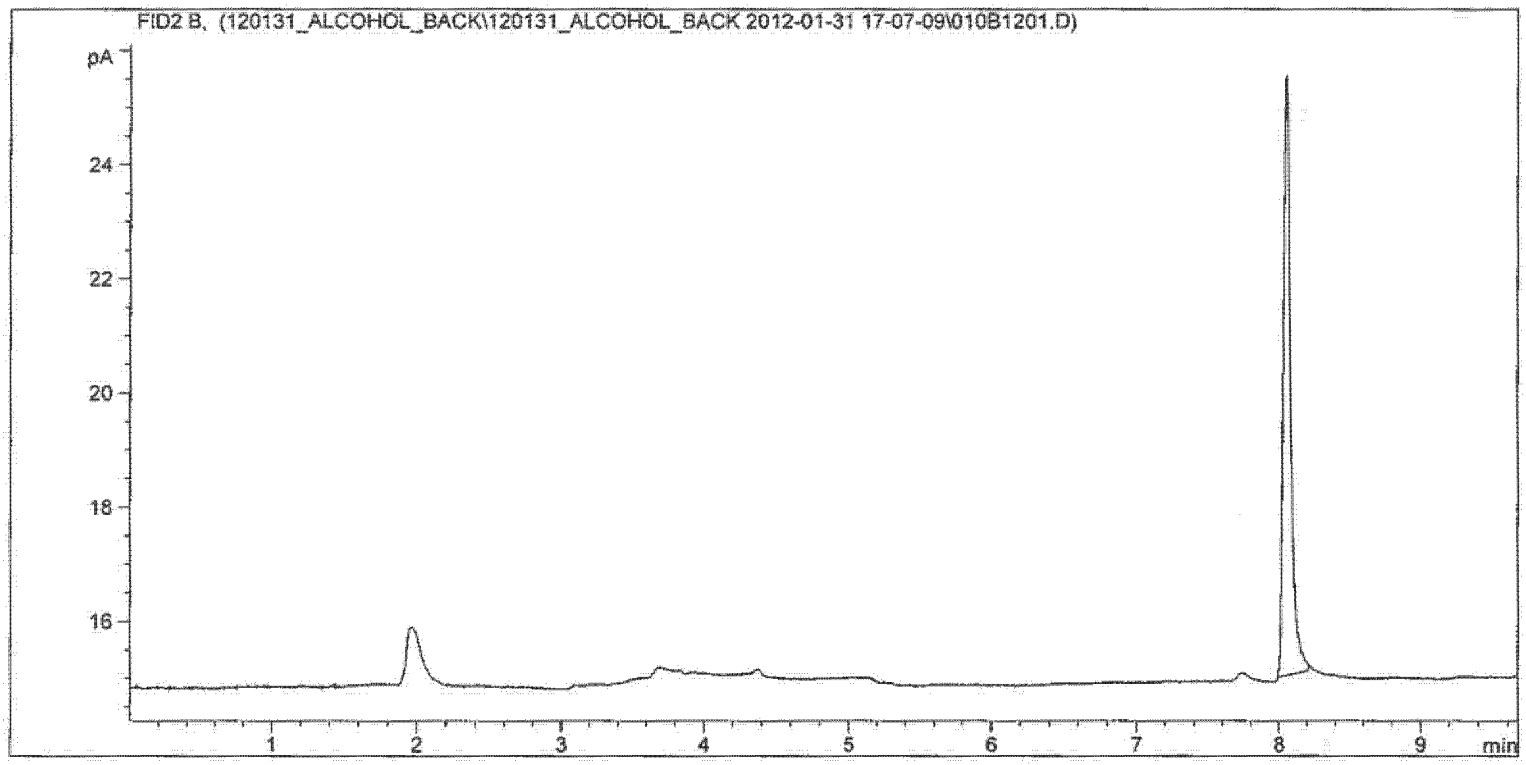
==========

*** End of Report ***

Data File C:\CHEM32\...131_ALCOHOL_BACK\120131_ALCOHOL_BACK 2012-01-31 17-07-09\010B1201.D
Sample Name: 1201013-32

Acq. Operator	: ACM	Seq. Line :	12
Acq. Instrument	: AG3-6890N	Location :	Vial 10
Injection Date	: 1/31/2012 7:41:07 PM	Inj :	1
		Inj Volume :	0.8 µl

Acq. Method : C:\CHEM32\1\DATA\120131_ALCOHOL_BACK\120131_ALCOHOL_BACK 2012-01-31 17-07-09\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120131.M
Last changed : 2/1/2012 7:43:33 AM by ACM
Method Info : FID method for Alcohol analysis



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/1/2012 7:43:27 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.222		-	-	-		Methanol
2.430		-	-	-		Ethanol
3.087		-	-	-		1-Propanol
3.405		-	-	-		2-Butanol
4.404		-	-	-		1-Butanol

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 2/1/2012 7:43:27 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.222		0.0000	0.00000	0.00000	Methanol
2	2.430		0.0000	0.00000	0.00000	Ethanol
3	3.087		0.0000	0.00000	0.00000	1-Propanol
4	3.405		0.0000	0.00000	0.00000	2-Butanol
5	4.404		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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*** End of Report ***

Data File C:\CHEM32\...131_ALCOHOL_BACK\120131_ALCOHOL_BACK 2012-01-31 17-07-09\011B1301.D
Sample Name: 1201013-33

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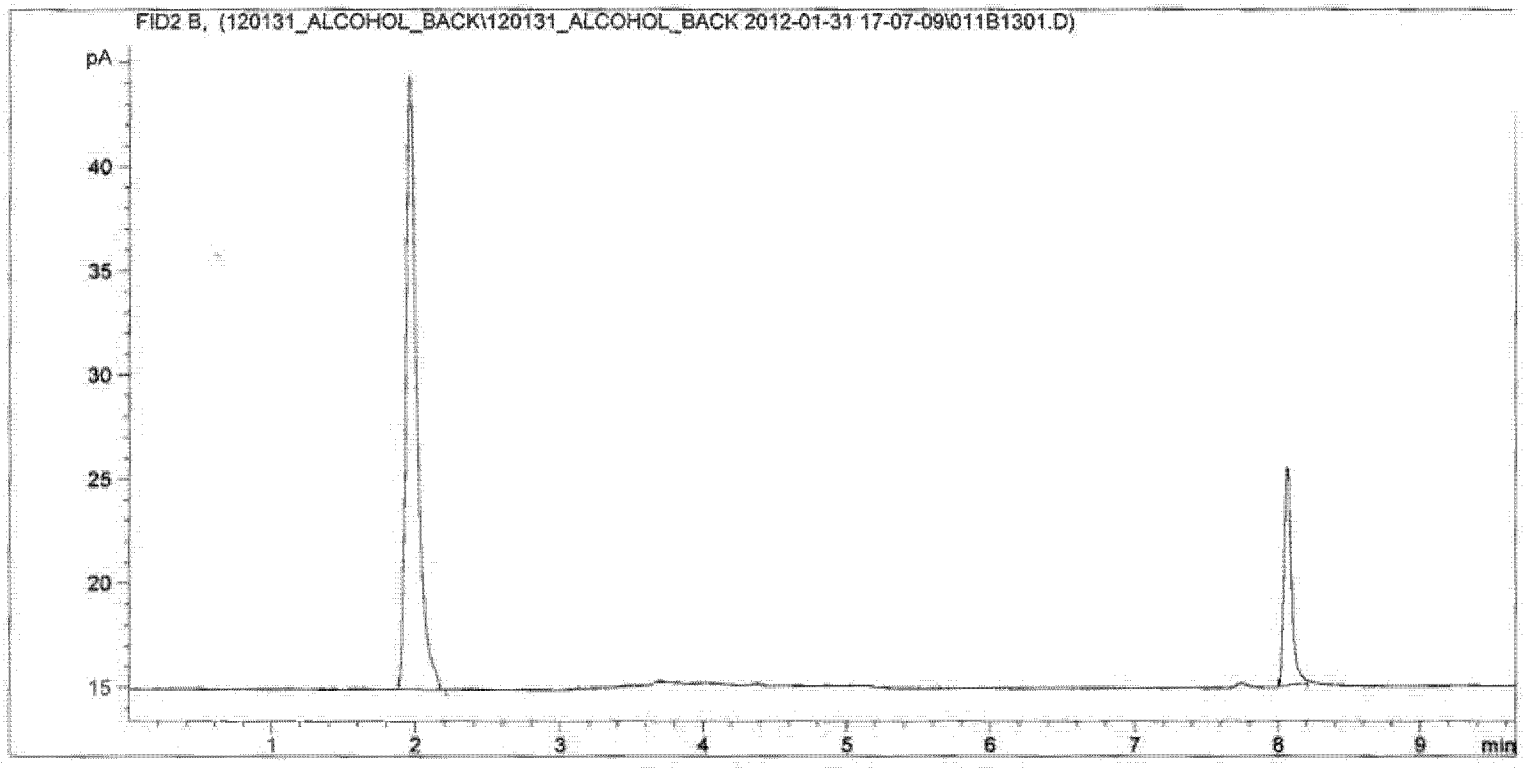
Acq. Operator : ACM
Seq. Line : 13
Acq. Instrument : AG3-6890N
Location : Vial 11
Injection Date : 1/31/2012 7:54:52 PM
Inj : 1
Inj Volume : 0.8 µl
Acq. Method : C:\CHEM32\1\DATA\120131_ALCOHOL_BACK\120131_ALCOHOL_BACK 2012-01-31 17-07-09\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120131.M
Last changed : 2/1/2012 7:43:33 AM by ACM
Method Info : FID method for Alcohol analysis



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 2/1/2012 7:43:27 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.222		-	-	-		Methanol
2.430		-	-	-		Ethanol
3.087		-	-	-		1-Propanol
3.405		-	-	-		2-Butanol
4.404		-	-	-		1-Butanol

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 2/1/2012 7:43:27 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.222		0.0000	0.00000	0.00000	Methanol
2	2.430		0.0000	0.00000	0.00000	Ethanol
3	3.087		0.0000	0.00000	0.00000	1-Propanol
4	3.405		0.0000	0.00000	0.00000	2-Butanol
5	4.404		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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*** End of Report ***

Data File C:\CHEM32\...131_ALCOHOL_BACK\120131_ALCOHOL_BACK 2012-01-31 17-07-09\012B1401.D
Sample Name: 1201013-34

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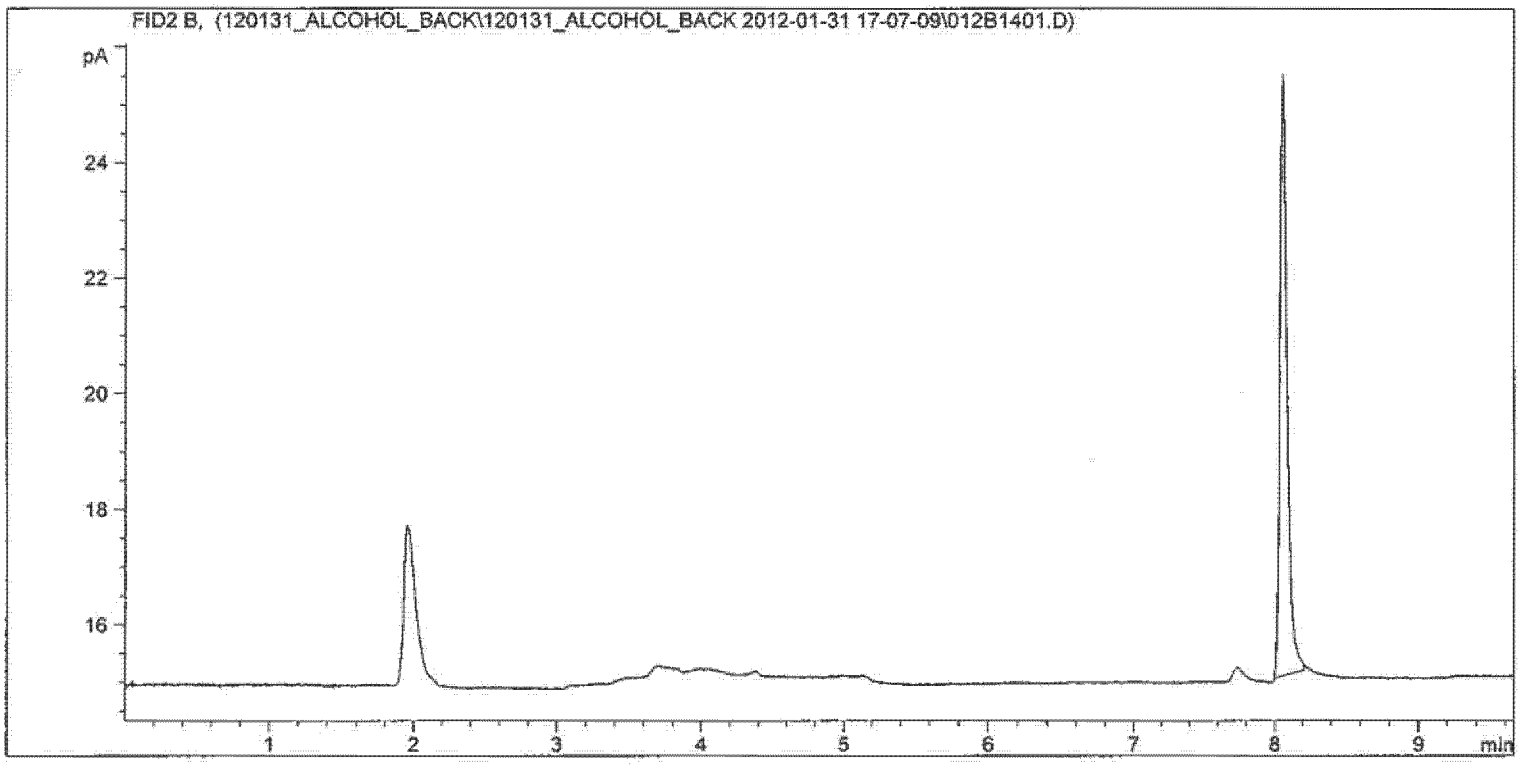
Acq. Operator : ACM
Seq. Line : 14
Acq. Instrument : AG3-6890N
Location : Vial 12
Injection Date : 1/31/2012 8:08:36 PM
Inj : 1
Inj Volume : 0.8 µl
Acq. Method : C:\CHEM32\1\DATA\120131_ALCOHOL_BACK\120131_ALCOHOL_BACK 2012-01-31 17-07-09\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120131.M
Last changed : 2/1/2012 7:43:33 AM by ACM
Method Info : FID method for Alcohol analysis



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 2/1/2012 7:43:27 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

ACM

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.222		-	-	-		Methanol
2.430		-	-	-		Ethanol
3.087		-	-	-		1-Propanol
3.405		-	-	-		2-Butanol
4.404		-	-	-		1-Butanol

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 2/1/2012 7:43:27 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.222		0.0000	0.00000	0.00000	Methanol
2	2.430		0.0000	0.00000	0.00000	Ethanol
3	3.087		0.0000	0.00000	0.00000	1-Propanol
4	3.405		0.0000	0.00000	0.00000	2-Butanol
5	4.404		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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*** End of Report ***

Data File C:\CHEM32\...131_ALCOHOL_BACK\120131_ALCOHOL_BACK 2012-01-31 17-07-09\013B1501.D
Sample Name: 1201013-35

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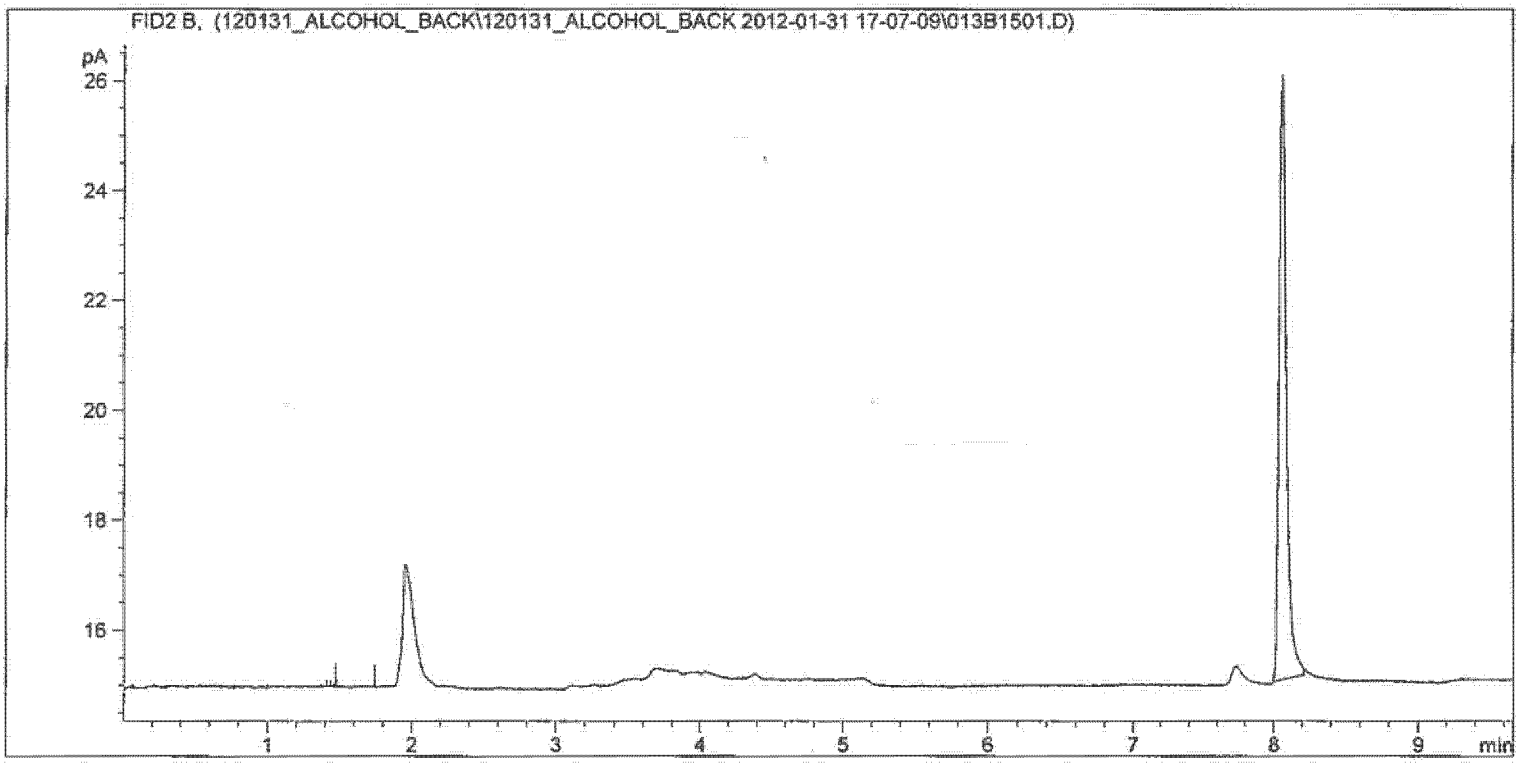
Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 1/31/2012 8:22:20 PM
Seq. Line : 15
Location : Vial 13
Inj : 1
Inj Volume : 0.8 µl
Acq. Method : C:\CHEM32\1\DATA\120131_ALCOHOL_BACK\120131_ALCOHOL_BACK 2012-01-31 17-07-09\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120131.M
Last changed : 2/1/2012 7:43:33 AM by ACM
Method Info : FID method for Alcohol analysis



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 2/1/2012 7:43:27 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.222		-	-	-		Methanol
2.430		-	-	-		Ethanol
3.087		-	-	-		1-Propanol
3.405		-	-	-		2-Butanol
4.404		-	-	-		1-Butanol

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 2/1/2012 7:43:27 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.222		0.0000	0.00000	0.00000	Methanol
2	2.430		0.0000	0.00000	0.00000	Ethanol
3	3.087		0.0000	0.00000	0.00000	1-Propanol
4	3.405		0.0000	0.00000	0.00000	2-Butanol
5	4.404		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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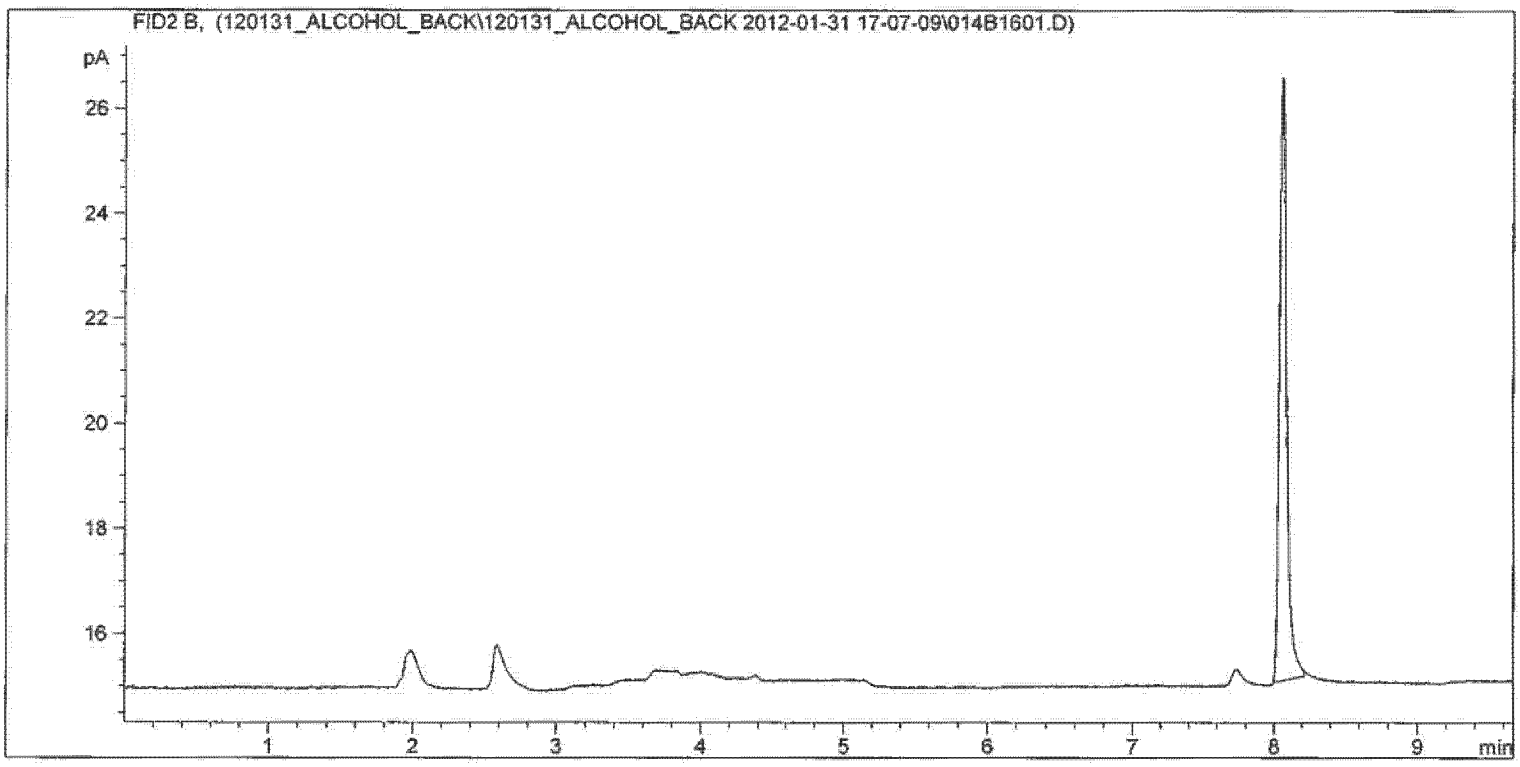
*** End of Report ***

Data File C:\CHEM32\...131_ALCOHOL_BACK\120131_ALCOHOL_BACK 2012-01-31 17-07-09\014B1601.D
Sample Name: 1201013-36

Acq. Operator	: ACM	Seq. Line :	16
Acq. Instrument	: AG3-6890N	Location :	Vial 14
Injection Date	: 1/31/2012 8:36:05 PM	Inj :	1
		Inj Volume :	0.8 µl
Acq. Method	: C:\CHEM32\1\DATA\120131_ALCOHOL_BACK\120131_ALCOHOL_BACK 2012-01-31 17-07-09\ALCOHOLS_BACK.M		
Last changed	: 1/27/2012 3:30:25 PM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120131.M		
Last changed	: 2/1/2012 7:43:33 AM by ACM		
Method Info	: FID method for Alcohol analysis		



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/1/2012 7:43:27 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.222		-	-	-		Methanol
2.430		-	-	-		Ethanol
3.087		-	-	-		1-Propanol
3.405		-	-	-		2-Butanol
4.404		-	-	-		1-Butanol

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 2/1/2012 7:43:27 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.222		0.0000	0.00000	0.00000	Methanol
2	2.430		0.0000	0.00000	0.00000	Ethanol
3	3.087		0.0000	0.00000	0.00000	1-Propanol
4	3.405		0.0000	0.00000	0.00000	2-Butanol
5	4.404		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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*** End of Report ***