Case File Contents

Alcohols

Alcohols by EPA 8015D

WO 1202004

Dimock Residential Groundwater

DAS R33907

Summary of Results / Project Information

DIM0209516

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

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

ANALYTICAL REPORT FOR SAMPLES

Station ID	Laboratory ID	Matrix	Date Sampled	Date Received
HW48	1202004-01	Drinking Water	2/08/12 16:06	2/10/12 11:20
HW48z	1202004-03	Drinking Water	2/08/12 16:06	2/10/12 11:20
HW21	1202004-06	Drinking Water	2/09/12 10:53	2/10/12 11:20
HW21z	1202004-08	Drinking Water	2/09/12 10:53	2/10/12 11:20
HW23-P	1202004-11	Drinking Water	2/08/12 15:39	2/10/12 11:20
HW22	1202004-13	Drinking Water	2/09/12 10:42	2/10/12 11:20
HW23	1202004-15	Drinking Water	2/08/12 15:42	2/10/12 11:20
HW22-P	1202004-17	Drinking Water	2/09/12 10:50	2/10/12 11:20
HW36n	1202004-21	Drinking Water	2/10/12 10:53	2/11/12 10:04
HW49	1202004-22	Drinking Water	2/09/12 14:11	2/11/12 10:04
HW16-P	1202004-23	Drinking Water	2/10/12 11:37	2/11/12 10:04
HW54-P	1202004-24	Drinking Water	2/10/12 14:30	2/11/12 10:04
FB14	1202004-25	Water	2/09/12 13:36	2/11/12 10:04
HW16z	1202004-26	Drinking Water	2/10/12 11:22	2/11/12 10:04
HW16	1202004-27	Drinking Water	2/10/12 11:21	2/11/12 10:04
HW44	1202004-28	Drinking Water	2/09/12 14:49	2/11/12 10:04
HW49-P	1202004-29	Drinking Water	2/09/12 14:26	2/11/12 10:04
HW36n-P	1202004-30	Drinking Water	2/10/12 11:02	2/11/12 10:04
FB15	1202004-31	Water	2/10/12 11:21	2/11/12 10:04
HW54	1202004-32	Drinking Water	2/10/12 14:08	2/11/12 10:04

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Site Name: Dimock Residential Groundwater
Station ID: HW48
Sample Matrix: Drinking Water
Project #: DAS R33907
Lab ID: 1202004-01
Date Collected: 02/08/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	02/13/12	02/13/12 10:13	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	02/13/12	02/13/12 10:13	EPA 8015D/R3QA203
Ethanol	U		10.0	1	02/13/12	02/13/12 10:13	EPA 8015D/R3QA203
Methanol	U		10.0	1	02/13/12	02/13/12 10:13	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	02/13/12	02/13/12 10:13	EPA 8015D/R3QA203

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Site Name: Dimock Residential Groundwater	**Project #:** DAS R33907
Station ID: HW48z	**Lab ID:** 1202004-03
Sample Matrix: Drinking Water	**Date Collected:** 02/08/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	02/13/12	02/13/12 10:54	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	02/13/12	02/13/12 10:54	EPA 8015D/R3QA203
Ethanol	U		10.0	1	02/13/12	02/13/12 10:54	EPA 8015D/R3QA203
Methanol	U		10.0	1	02/13/12	02/13/12 10:54	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	02/13/12	02/13/12 10:54	EPA 8015D/R3QA203

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Site Name: Dimock Residential Groundwater
Project #: DAS R33907
Station ID: HW21
Lab ID: 1202004-06
Sample Matrix: Drinking Water
Date Collected: 02/09/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	02/13/12	02/13/12 11:08	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	02/13/12	02/13/12 11:08	EPA 8015D/R3QA203
Ethanol	U		10.0	1	02/13/12	02/13/12 11:08	EPA 8015D/R3QA203
Methanol	U		10.0	1	02/13/12	02/13/12 11:08	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	02/13/12	02/13/12 11:08	EPA 8015D/R3QA203

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Site Name: Dimock Residential Groundwater	**Project #:** DAS R33907
Station ID: HW21z	**Lab ID:** 1202004-08
Sample Matrix: Drinking Water	**Date Collected:** 02/09/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	02/13/12	02/13/12 11:22	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	02/13/12	02/13/12 11:22	EPA 8015D/R3QA203
Ethanol	U		10.0	1	02/13/12	02/13/12 11:22	EPA 8015D/R3QA203
Methanol	U		10.0	1	02/13/12	02/13/12 11:22	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	02/13/12	02/13/12 11:22	EPA 8015D/R3QA203

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Site Name: Dimock Residential Groundwater	**Project #:** DAS R33907
Station ID: HW23-P	**Lab ID:** 1202004-11
Sample Matrix: Drinking Water	**Date Collected:** 02/08/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	02/13/12	02/13/12 11:35	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	02/13/12	02/13/12 11:35	EPA 8015D/R3QA203
Ethanol	U		10.0	1	02/13/12	02/13/12 11:35	EPA 8015D/R3QA203
Methanol	U		10.0	1	02/13/12	02/13/12 11:35	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	02/13/12	02/13/12 11:35	EPA 8015D/R3QA203

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Site Name: Dimock Residential Groundwater	**Project #:** DAS R33907
Station ID: HW22	**Lab ID:** 1202004-13
Sample Matrix: Drinking Water	**Date Collected:** 02/09/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	02/13/12	02/13/12 11:49	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	02/13/12	02/13/12 11:49	EPA 8015D/R3QA203
Ethanol	U		10.0	1	02/13/12	02/13/12 11:49	EPA 8015D/R3QA203
Methanol	U		10.0	1	02/13/12	02/13/12 11:49	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	02/13/12	02/13/12 11:49	EPA 8015D/R3QA203

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Site Name: Dimock Residential Groundwater	**Project #:** DAS R33907
Station ID: HW23	**Lab ID:** 1202004-15
Sample Matrix: Drinking Water	**Date Collected:** 02/08/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	02/13/12	02/13/12 12:03	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	02/13/12	02/13/12 12:03	EPA 8015D/R3QA203
Ethanol	U		10.0	1	02/13/12	02/13/12 12:03	EPA 8015D/R3QA203
Methanol	U		10.0	1	02/13/12	02/13/12 12:03	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	02/13/12	02/13/12 12:03	EPA 8015D/R3QA203

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Site Name: Dimock Residential Groundwater
Station ID: HW22-P
Sample Matrix: Drinking Water
Project #: DAS R33907
Lab ID: 1202004-17
Date Collected: 02/09/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	02/13/12	02/13/12 12:17	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	02/13/12	02/13/12 12:17	EPA 8015D/R3QA203
Ethanol	U		10.0	1	02/13/12	02/13/12 12:17	EPA 8015D/R3QA203
Methanol	U		10.0	1	02/13/12	02/13/12 12:17	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	02/13/12	02/13/12 12:17	EPA 8015D/R3QA203

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Site Name: Dimock Residential Groundwater
Project #: DAS R33907
Station ID: HW36n
Lab ID: 1202004-21
Sample Matrix: Drinking Water
Date Collected: 02/10/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	02/13/12	02/13/12 12:30	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	02/13/12	02/13/12 12:30	EPA 8015D/R3QA203
Ethanol	U		10.0	1	02/13/12	02/13/12 12:30	EPA 8015D/R3QA203
Methanol	U		10.0	1	02/13/12	02/13/12 12:30	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	02/13/12	02/13/12 12:30	EPA 8015D/R3QA203

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Site Name: Dimock Residential Groundwater	**Project #:** DAS R33907
Station ID: HW49	**Lab ID:** 1202004-22
Sample Matrix: Drinking Water	**Date Collected:** 02/09/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	02/13/12	02/13/12 12:44	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	02/13/12	02/13/12 12:44	EPA 8015D/R3QA203
Ethanol	U		10.0	1	02/13/12	02/13/12 12:44	EPA 8015D/R3QA203
Methanol	U		10.0	1	02/13/12	02/13/12 12:44	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	02/13/12	02/13/12 12:44	EPA 8015D/R3QA203

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Site Name: Dimock Residential Groundwater	**Project #:** DAS R33907
Station ID: HW16-P	**Lab ID:** 1202004-23
Sample Matrix: Drinking Water	**Date Collected:** 02/10/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	02/13/12	02/13/12 12:58	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	02/13/12	02/13/12 12:58	EPA 8015D/R3QA203
Ethanol	U		10.0	1	02/13/12	02/13/12 12:58	EPA 8015D/R3QA203
Methanol	U		10.0	1	02/13/12	02/13/12 12:58	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	02/13/12	02/13/12 12:58	EPA 8015D/R3QA203

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Site Name: Dimock Residential Groundwater	**Project #:** DAS R33907
Station ID: HW54-P	**Lab ID:** 1202004-24
Sample Matrix: Drinking Water	**Date Collected:** 02/10/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	02/13/12	02/13/12 14:06	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	02/13/12	02/13/12 14:06	EPA 8015D/R3QA203
Ethanol	U		10.0	1	02/13/12	02/13/12 14:06	EPA 8015D/R3QA203
Methanol	U		10.0	1	02/13/12	02/13/12 14:06	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	02/13/12	02/13/12 14:06	EPA 8015D/R3QA203

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Site Name: Dimock Residential Groundwater
Project #: DAS R33907
Station ID: FB14
Lab ID: 1202004-25
Sample Matrix: Water
Date Collected: 02/09/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	02/13/12	02/13/12 14:20	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	02/13/12	02/13/12 14:20	EPA 8015D/R3QA203
Ethanol	U		10.0	1	02/13/12	02/13/12 14:20	EPA 8015D/R3QA203
Methanol	U		10.0	1	02/13/12	02/13/12 14:20	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	02/13/12	02/13/12 14:20	EPA 8015D/R3QA203

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Site Name: Dimock Residential Groundwater
Project #: DAS R33907
Station ID: HW16z
Lab ID: 1202004-26
Sample Matrix: Drinking Water
Date Collected: 02/10/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	02/13/12	02/13/12 14:34	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	02/13/12	02/13/12 14:34	EPA 8015D/R3QA203
Ethanol	U		10.0	1	02/13/12	02/13/12 14:34	EPA 8015D/R3QA203
Methanol	U		10.0	1	02/13/12	02/13/12 14:34	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	02/13/12	02/13/12 14:34	EPA 8015D/R3QA203

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Site Name: Dimock Residential Groundwater
Station ID: HW16
Sample Matrix: Drinking Water
Project #: DAS R33907
Lab ID: 1202004-27
Date Collected: 02/10/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	02/13/12	02/13/12 14:48	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	02/13/12	02/13/12 14:48	EPA 8015D/R3QA203
Ethanol	U		10.0	1	02/13/12	02/13/12 14:48	EPA 8015D/R3QA203
Methanol	U		10.0	1	02/13/12	02/13/12 14:48	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	02/13/12	02/13/12 14:48	EPA 8015D/R3QA203

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Site Name: Dimock Residential Groundwater	**Project #:** DAS R33907
Station ID: HW44	**Lab ID:** 1202004-28
Sample Matrix: Drinking Water	**Date Collected:** 02/09/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	02/13/12	02/13/12 15:01	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	02/13/12	02/13/12 15:01	EPA 8015D/R3QA203
Ethanol	U		10.0	1	02/13/12	02/13/12 15:01	EPA 8015D/R3QA203
Methanol	U		10.0	1	02/13/12	02/13/12 15:01	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	02/13/12	02/13/12 15:01	EPA 8015D/R3QA203

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Site Name: Dimock Residential Groundwater
Station ID: HW49-P
Sample Matrix: Drinking Water
Project #: DAS R33907
Lab ID: 1202004-29
Date Collected: 02/09/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	02/13/12	02/13/12 15:15	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	02/13/12	02/13/12 15:15	EPA 8015D/R3QA203
Ethanol	U		10.0	1	02/13/12	02/13/12 15:15	EPA 8015D/R3QA203
Methanol	U		10.0	1	02/13/12	02/13/12 15:15	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	02/13/12	02/13/12 15:15	EPA 8015D/R3QA203

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Site Name: Dimock Residential Groundwater
Station ID: HW36n-P
Sample Matrix: Drinking Water
Project #: DAS R33907
Lab ID: 1202004-30
Date Collected: 02/10/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	02/13/12	02/13/12 15:29	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	02/13/12	02/13/12 15:29	EPA 8015D/R3QA203
Ethanol	U		10.0	1	02/13/12	02/13/12 15:29	EPA 8015D/R3QA203
Methanol	U		10.0	1	02/13/12	02/13/12 15:29	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	02/13/12	02/13/12 15:29	EPA 8015D/R3QA203

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Site Name: Dimock Residential Groundwater
Project #: DAS R33907
Station ID: FB15
Lab ID: 1202004-31
Sample Matrix: Water
Date Collected: 02/10/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	02/13/12	02/13/12 15:42	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	02/13/12	02/13/12 15:42	EPA 8015D/R3QA203
Ethanol	U		10.0	1	02/13/12	02/13/12 15:42	EPA 8015D/R3QA203
Methanol	U		10.0	1	02/13/12	02/13/12 15:42	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	02/13/12	02/13/12 15:42	EPA 8015D/R3QA203

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Site Name: Dimock Residential Groundwater	**Project #:** DAS R33907
Station ID: HW54	**Lab ID:** 1202004-32
Sample Matrix: Drinking Water	**Date Collected:** 02/10/2012

Alcohols
Targets

Analyte	Result ug/mL	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
1-Butanol	U		10.0	1	02/13/12	02/13/12 15:56	EPA 8015D/R3QA203
2-Butanol	U		10.0	1	02/13/12	02/13/12 15:56	EPA 8015D/R3QA203
Ethanol	U		10.0	1	02/13/12	02/13/12 15:56	EPA 8015D/R3QA203
Methanol	U		10.0	1	02/13/12	02/13/12 15:56	EPA 8015D/R3QA203
1-Propanol	U		10.0	1	02/13/12	02/13/12 15:56	EPA 8015D/R3QA203

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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 BB21301 - Alcohols										
Blank (BB21301-BLK1)				Prepared: 02/13/12 07:48		Analyzed: 02/13/12 09:46				
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 (BB21301-BS1)				Prepared: 02/13/12 07:48		Analyzed: 02/13/12 09:59				
1-Butanol	105	10.0	ug/mL	100.00		105	70-130			
2-Butanol	102	10.0	"	100.00		102	70-130			
Ethanol	102	10.0	"	100.00		102	70-130			
Methanol	94.4	10.0	"	100.00		94	70-130			
1-Propanol	102	10.0	"	100.00		102	70-130			
Matrix Spike (BB21301-MS1)		Source: 1202004-01		Prepared: 02/13/12 07:48		Analyzed: 02/13/12 10:27				
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	102	10.0	"	100.00	0.00	102	70-130			
Methanol	92.3	10.0	"	100.00	0.00	92	70-130			
1-Propanol	101	10.0	"	100.00	0.00	101	70-130			
Matrix Spike Dup (BB21301-MSD1)		Source: 1202004-01		Prepared: 02/13/12 07:48		Analyzed: 02/13/12 10:41				
1-Butanol	104	10.0	ug/mL	100.00	0.00	104	70-130	0.8	25	
2-Butanol	99.7	10.0	"	100.00	0.00	100	70-130	0.9	25	
Ethanol	98.4	10.0	"	100.00	0.00	98	70-130	3	25	
Methanol	95.8	10.0	"	100.00	0.00	96	70-130	4	25	
1-Propanol	100	10.0	"	100.00	0.00	100	70-130	1	25	

? 0.8 rounding error

OK rounding error in manual calc. Lims result is OK JS, 2/21

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
1202004-01	Alcohols by EPA 8015D		Status is Analyzed
1202004-03	Alcohols by EPA 8015D		Status is Analyzed
1202004-06	Alcohols by EPA 8015D		Status is Analyzed
1202004-08	Alcohols by EPA 8015D		Status is Analyzed
1202004-11	Alcohols by EPA 8015D		Status is Analyzed
1202004-13	Alcohols by EPA 8015D		Status is Analyzed
1202004-15	Alcohols by EPA 8015D		Status is Analyzed
1202004-17	Alcohols by EPA 8015D		Status is Analyzed
1202004-21	Alcohols by EPA 8015D		Status is Analyzed
1202004-22	Alcohols by EPA 8015D		Status is Analyzed
1202004-23	Alcohols by EPA 8015D		Status is Analyzed
1202004-24	Alcohols by EPA 8015D		Status is Analyzed
1202004-25	Alcohols by EPA 8015D		Status is Analyzed
1202004-26	Alcohols by EPA 8015D		Status is Analyzed
1202004-27	Alcohols by EPA 8015D		Status is Analyzed
1202004-28	Alcohols by EPA 8015D		Status is Analyzed
1202004-29	Alcohols by EPA 8015D		Status is Analyzed
1202004-30	Alcohols by EPA 8015D		Status is Analyzed
1202004-31	Alcohols by EPA 8015D		Status is Analyzed
1202004-32	Alcohols by EPA 8015D		Status is Analyzed

Appendix C

Manual Integration Summary Form

Site Name: Dimock Residential Groundwater Work Order Number: 1202004

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:

- 1 MI on back column on BB21301-BS1

Analyst: Adam Molnar Date: 2-21-12

Peer Reviewer: Joseph Slayton Date: 2-21-12

Rev. 5/4/11

BATCH NOTES

Case File Notes:
- Dimock (WO# 1202004)
- 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:

Front Column (Stabilwax)

2/7/12
ICAL - All compounds linear with R > 0.995.
SCV - pass.
CCV1 - Pass.
IBL1,2,3 - pass.

2/13/12
CCV1,2,3 - pass.
IBL1,2,3 - pass.

Back Column (RTX-1701)

2/7/12
ICAL - All compounds linear with R > 0.995.
SCV - pass.
CCV1 - Pass.
IBL1,2,3 - pass.

2/13/12
CCV1,2,3 - pass.
IBL1,2,3 - pass.

Extraction QC:
Front Column (Stabilwax)

BB21301
Blank1 - pass.
BS1 - pass.
MS1 - Pass.
MSD1 - Pass.

Back Column (RTX-1701)

BB21301
Blank1 - pass.
BS1 - pass.
MS1 - Pass.
MSD1 - Pass.

Sample Assignment Memo: WO# 1202004;Dimock Residential Groundwater / DAS R33907

[redacted] to: [redacted] R3 ESC-LB, Colleen Walling 02/10/2012 04:40 PM

Cc: [redacted]

Site Name and DAS/NSF#:	DAS R33907\Dimock Residential Groundwater
Work Order#:	1202004
Parameter(s):	8 Samples 8 Bottles- Alcohols by EPA 8015D
	8 Samples 8 Bottles- Anions By IC 300.0
	8 Samples 8 Bottles- Glycol by LC/MS/MS
	8 Samples 8 Bottles- Nitrite+Nitrate as Nitrogen
by EPA 353.2 FIA	
	8 Samples 24 Bottles- Oil & Grease 1664
	8 Samples 8 Bottles - SVOCs by CLP
Equivalent	
	8 Samples 8 Bottles- Total Dissolved Solids by
2540C	
	16 Samples 16 Bottles- Total Mercury by 245.1
	16 Samples 16 Bottles- Total Metals by 200.7
	16 Samples 16 Bottles- Total Metals by 200.8
	8 Samples 8 Bottles- Total Nitrogen by mod.
EPA 353.2 FIA.	
	8 Samples 8 Bottles- Total Phosphorus by
Bran&Lube 365.4	
	8 Samples 8 Bottles- Total Suspended Solids by
2540D	
	12 samples 36 Bottles- VOCs by CLP
Equivalent (trace)	
Number of Samples: 12 samples for VOCs.	20 total/ 8 Samples for each parameter to date
Temperature Blank:	1.0, 1.0, 3.0, 1.5, 1.5, 1.5, 1.5

pH: for Inorganic samples NPDES, SF, NSF: All preserved samples received with pH of 2 all unpreserved samples with a pH of 7.

pH: for organic PCB/Pest by Method 608:

Matrix: Water

Location: EPA #3 Shelf 2D
EPA #3 Shelf 8D

Due Date: 03/02/2012

Comments:

For Corrections/Omissions call Robin Costas.52659

****
Ex. 4 - CBI
LMES&S Chemist
Lockheed Martin Enterprise Solutions & Services
Environmental Science Center
701 Mapes Road
Ft. Meade, MD 20755-5350
Phone: 410.305.2861
Fax: 410.305.3095
****

Sample Assignment Memo for: Dimock Residential Groundwater; DAS R33907; WO#1202004
Kevin Martin to: R3 ESC-LB 02/11/2012 05:38 PM
Cc: Kevin Martin

Sample Assignment Memo for: Dimock Residential Groundwater; DAS R33907; WO#1202004

Parameter(s)	Matrix	Number of Samples	pH	Analyst	Location
Alcohols	AQ	12	-	AM	EPA #3 shelf 1B
Anions	AQ	12	**	RA	EPA #3 shelf 1C
Glycols	AQ	12*	-	JG	Analyst
Nitrite+Nitrate	AQ	12	**	JC	EPA #3 shelf 8B and cooler on shelf 1
Oil & Grease	AQ	12	**	RA/JC	EPA #3 shelf 7C and on cart (lower pa
SVOCs	AQ	12	**	EG/KP	EPA #3 shelf 2C
TDS	AQ	12	**	JC	EPA #3 shelf 2B and cooler on shelf 1
TSS	AQ	12	**	JC	EPA #3 cooler on shelf 1D
Mercury	AQ	24	**	SG	EPA #3 shelf 8C
Metals	AQ	24	**	RC/JD	EPA #3 shelf 8C
Total Nitrogen	AQ	12	**	JC	EPA #3 shelf 8B and cooler on shelf 1
Total Phos	AQ	12	**	RA/JC	EPA #3 shelf 8B and cooler on shelf 1
VOCs	AQ	17	-	SW/PZ	EPA #5 VOA

* Broken vial for Glycol
** Did not measure the pH

Temperature Blank: Cooler #1 was 4.0 °C Cooler #2 was 3.0 °C
Cooler #3 was 3.0 °C Cooler #4 was 3.0 °C
Cooler #5 was 4.0 °C Cooler #6 was 2.5 °C
Cooler #7 was 4.0 °C Cooler #8 was 4.0 °C
Cooler #9 was 4.0 °C Cooler #10 was 4.0 °
C
Cooler #11 was 5.0 °C Cooler #12
was 4.5 °C

Due Date: 3/3/12

Comments: This fills up this work order.

For Corrections/Omissions call Robin

Thank You,

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

WORK ORDER

Printed: 2/16/2012 10:03:41AM

1202004

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

Client: OSWER - Emergency Response
Project: DAS R33907
Final Report Due: 03/03/2012

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

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

Received By: [redacted]
Date Received: 02/10/12 11:20
Temperature Samples Received at 1°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# 1202004-01
Sample Name: HW48
Sample Type: SAM
Alcohols by EPA 8015D

Lab\Report Matrix Water\Drinking Water
Date Sampled 02/08/12 16:06
Expires: 02/15/12 16:06
Analysis Comments: 71 Drinking Water
Sample Comments:

Sample Logged In: 02/10/12 11:57
Sample Received: 02/10/12 11:20
Batched

Sample# 1202004-03
Sample Name: HW48z
Sample Type: SAM
Alcohols by EPA 8015D

Lab\Report Matrix Water\Drinking Water
Date Sampled 02/08/12 16:06
Expires: 02/15/12 16:06
Analysis Comments: 71 Drinking Water
Sample Comments:

Sample Logged In: 02/10/12 11:57
Sample Received: 02/10/12 11:20
Batched

Sample# 1202004-06
Sample Name: HW21
Sample Type: SAM
Alcohols by EPA 8015D

Lab\Report Matrix Water\Drinking Water
Date Sampled 02/09/12 10:53
Expires: 02/16/12 10:53
Analysis Comments: 71 Drinking Water
Sample Comments:

Sample Logged In: 02/10/12 11:57
Sample Received: 02/10/12 11:20
Batched

Sample# 1202004-08 **Sample Name:** HW21z **Sample Type:** SAM Alcohols by EPA 8015D	**Lab\Report Matrix** Water\Drinking Water **Date Sampled** 02/09/12 10:53 **Expires:** 02/16/12 10:53 **Analysis Comments:** 71 Drinking Water **Sample Comments:**	**Sample Logged In:** 02/10/12 11:57 **Sample Received:** 02/10/12 11:20 **Batched**
Sample# 1202004-11 **Sample Name:** HW23-P **Sample Type:** SAM Alcohols by EPA 8015D	**Lab\Report Matrix** Water\Drinking Water **Date Sampled** 02/08/12 15:39 **Expires:** 02/15/12 15:39 **Analysis Comments:** 71 Drinking Water **Sample Comments:**	**Sample Logged In:** 02/10/12 11:57 **Sample Received:** 02/10/12 11:20 **Batched**
Sample# 1202004-13 **Sample Name:** HW22 **Sample Type:** SAM Alcohols by EPA 8015D	**Lab\Report Matrix** Water\Drinking Water **Date Sampled** 02/09/12 10:42 **Expires:** 02/16/12 10:42 **Analysis Comments:** 71 Drinking Water **Sample Comments:**	**Sample Logged In:** 02/10/12 11:57 **Sample Received:** 02/10/12 11:20 **Batched**
Sample# 1202004-15 **Sample Name:** HW23 **Sample Type:** SAM Alcohols by EPA 8015D	**Lab\Report Matrix** Water\Drinking Water **Date Sampled** 02/08/12 15:42 **Expires:** 02/15/12 15:42 **Analysis Comments:** 71 Drinking Water **Sample Comments:**	**Sample Logged In:** 02/10/12 11:57 **Sample Received:** 02/10/12 11:20 **Batched**
Sample# 1202004-17 **Sample Name:** HW22-P **Sample Type:** SAM Alcohols by EPA 8015D	**Lab\Report Matrix** Water\Drinking Water **Date Sampled** 02/09/12 10:50 **Expires:** 02/16/12 10:50 **Analysis Comments:** 71 Drinking Water **Sample Comments:**	**Sample Logged In:** 02/10/12 11:57 **Sample Received:** 02/10/12 11:20 **Batched**
Sample# 1202004-21 **Sample Name:** HW36n **Sample Type:** SAM Alcohols by EPA 8015D	**Lab\Report Matrix** Water\Drinking Water **Date Sampled** 02/10/12 10:53 **Expires:** 02/17/12 10:53 **Analysis Comments:** 71 Drinking Water **Sample Comments:**	**Sample Logged In:** 02/11/12 14:15 **Sample Received:** 02/11/12 10:04 **Batched**
Sample# 1202004-22 **Sample Name:** HW49 **Sample Type:** SAM Alcohols by EPA 8015D	**Lab\Report Matrix** Water\Drinking Water **Date Sampled** 02/09/12 14:11 **Expires:** 02/16/12 14:11 **Analysis Comments:** 71 Drinking Water **Sample Comments:** Glycol vial broken in cooler	**Sample Logged In:** 02/11/12 14:15 **Sample Received:** 02/11/12 10:04 **Batched**
Sample# 1202004-23 **Sample Name:** HW16-P **Sample Type:** SAM Alcohols by EPA 8015D	**Lab\Report Matrix** Water\Drinking Water **Date Sampled** 02/10/12 11:37 **Expires:** 02/17/12 11:37 **Analysis Comments:** 71 Drinking Water **Sample Comments:**	**Sample Logged In:** 02/11/12 14:15 **Sample Received:** 02/11/12 10:04 **Batched**

Sample# 1202004-24 **Sample Name:** HW54-P **Sample Type:** SAM Alcohols by EPA 8015D	**Lab\Report Matrix** Water\Drinking Water **Date Sampled** 02/10/12 14:30 **Expires:** 02/17/12 14:30 **Analysis Comments:** 71 Drinking Water **Sample Comments:**	**Sample Logged In:** 02/11/12 14:15 **Sample Received:** 02/11/12 10:04 **Batched**
Sample# 1202004-25 **Sample Name:** FB14 **Sample Type:** SAM Alcohols by EPA 8015D	**Lab\Report Matrix** Water\Water **Date Sampled** 02/09/12 13:36 **Expires:** 02/16/12 13:36 **Analysis Comments:** 71 Drinking Water **Sample Comments:**	**Sample Logged In:** 02/11/12 14:15 **Sample Received:** 02/11/12 10:04 **Batched**
Sample# 1202004-26 **Sample Name:** HW16z **Sample Type:** SAM Alcohols by EPA 8015D	**Lab\Report Matrix** Water\Drinking Water **Date Sampled** 02/10/12 11:22 **Expires:** 02/17/12 11:22 **Analysis Comments:** 71 Drinking Water **Sample Comments:**	**Sample Logged In:** 02/11/12 14:15 **Sample Received:** 02/11/12 10:04 **Batched**
Sample# 1202004-27 **Sample Name:** HW16 **Sample Type:** SAM Alcohols by EPA 8015D	**Lab\Report Matrix** Water\Drinking Water **Date Sampled** 02/10/12 11:21 **Expires:** 02/17/12 11:21 **Analysis Comments:** 71 Drinking Water **Sample Comments:**	**Sample Logged In:** 02/11/12 14:15 **Sample Received:** 02/11/12 10:04 **Batched**
Sample# 1202004-28 **Sample Name:** HW44 **Sample Type:** SAM Alcohols by EPA 8015D	**Lab\Report Matrix** Water\Drinking Water **Date Sampled** 02/09/12 14:49 **Expires:** 02/16/12 14:49 **Analysis Comments:** 71 Drinking Water **Sample Comments:** QC for VOCs AND SVOCs	**Sample Logged In:** 02/11/12 14:15 **Sample Received:** 02/11/12 10:04 **Batched**
Sample# 1202004-29 **Sample Name:** HW49-P **Sample Type:** SAM Alcohols by EPA 8015D	**Lab\Report Matrix** Water\Drinking Water **Date Sampled** 02/09/12 14:26 **Expires:** 02/16/12 14:26 **Analysis Comments:** 71 Drinking Water **Sample Comments:**	**Sample Logged In:** 02/11/12 14:15 **Sample Received:** 02/11/12 10:04 **Batched**
Sample# 1202004-30 **Sample Name:** HW36n-P **Sample Type:** SAM Alcohols by EPA 8015D	**Lab\Report Matrix** Water\Drinking Water **Date Sampled** 02/10/12 11:02 **Expires:** 02/17/12 11:02 **Analysis Comments:** 71 Drinking Water **Sample Comments:** QC for VOCs	**Sample Logged In:** 02/11/12 14:15 **Sample Received:** 02/11/12 10:04 **Batched**
Sample# 1202004-31 **Sample Name:** FB15 **Sample Type:** SAM Alcohols by EPA 8015D	**Lab\Report Matrix** Water\Water **Date Sampled** 02/10/12 11:21 **Expires:** 02/17/12 11:21 **Analysis Comments:** 71 Drinking Water **Sample Comments:**	**Sample Logged In:** 02/11/12 14:15 **Sample Received:** 02/11/12 10:04 **Batched**

Sample#	1202004-32	**Lab\Report Matrix**	Water\Drinking Water	**Sample Logged In:**	02/11/12 14:15
Sample Name:	HW54	**Date Sampled**	02/10/12 14:08	**Sample Received:**	02/11/12 10:04
Sample Type:	SAM				
Alcohols by EPA 8015D		**Expires:**	02/17/12 14:08	**Batched**	
		Analysis Comments:	71 Drinking Water		
		Sample Comments:			

Case File Contents

Alcohols

Alcohols by EPA 8015D

WO 1202004

Dimock Residential Groundwater

DAS R33907

Log Book Copies, Run Logs

BB21301 bch_Alcohol.rpt

Project:	**DAS R33907**	**Location:**	**EPA #3 Shelf 1B** **EPA #3 Shelf 2D**
Work Order No:	**1202004**		
Site Name:	**Dimock Residential Groundwater**	**Client:**	**OSWER - Emergency Response**
Analysis:	**Alcohols by EPA 8015D**	**Account#:**	**2012T03N303DC6A3TARS00**
Matrix:	**Water**	**Method/SOP:**	**EPA 8015D/R3QA203**

Comments from WO:

Analyst: Adam Molnor		DI Water Check	
Preparation Date: 2-13-12		TOC < 25 ppb: ok Am	Conductivity ≥ 18Ω: ok Am
QC Info	Standard ID	Concentration	Volume Added
Matrix Spike	1200092	10,000 (µg/mL)	0.100 (mL)
Reagent Purity Check: OK Am			
Comments: Prep date is the date the MS/MSD and BS were prepared.			

EPA Region 3 - OASQA - ALCOHOL SAMPLE PREPARATION BENCH SHEET

BB21301 **bch_Alcohol.rpt**

LabNumber	Container ID	Sample Type	Collection Date	Initial	Final (mL)	Spike1	Source ID	ul Spike	ExtractionComments
1202004-01	I	SAM	02/08/12 16:06	1	1	N/A	N/A	N/A	71 Drinking Water
1202004-03	I	SAM	02/08/12 16:06	1	1				71 Drinking Water
1202004-06	I	SAM	02/09/12 10:53	1	1				71 Drinking Water
1202004-08	I	SAM	02/09/12 10:53	1	1				71 Drinking Water
1202004-11	I	SAM	02/08/12 15:39	1	1				71 Drinking Water
1202004-13	I	SAM	02/09/12 10:42	1	1				71 Drinking Water
1202004-15	I	SAM	02/08/12 15:42	1	1				71 Drinking Water
1202004-17	I	SAM	02/09/12 10:50	1	1				71 Drinking Water
1202004-21	I	SAM	02/10/12 10:53	1	1				71 Drinking Water
1202004-22	I	SAM	02/09/12 14:11	1	1				71 Drinking Water
1202004-23	I	SAM	02/10/12 11:37	1	1				71 Drinking Water
1202004-24	I	SAM	02/10/12 14:30	1	1				71 Drinking Water
1202004-25	I	SAM	02/09/12 13:36	1	1				71 Drinking Water
1202004-26	I	SAM	02/10/12 11:22	1	1				71 Drinking Water
1202004-27	I	SAM	02/10/12 11:21	1	1				71 Drinking Water
1202004-28	I	SAM	02/09/12 14:49	1	1				71 Drinking Water
1202004-29	I	SAM	02/09/12 14:26	1	1				71 Drinking Water
1202004-30	I	SAM	02/10/12 11:02	1	1				71 Drinking Water
1202004-31	I	SAM	02/10/12 11:21	1	1				71 Drinking Water
1202004-32	I	SAM	02/10/12 14:08	1	1				71 Drinking Water
BB21301-BLK1	N/A	QC	02/13/12 07:48	1	1		-		
BB21301-BS1		QC	02/13/12 07:48	10	10	1200092	-	100	

EPA Region 5 CLP QA ALCOHOL SAMPLE PREPARATION BENCH SHEET

BB21301 **bch_Alcohol.rpt**

LabNumber	Container ID	Sample Type	Collection Date	Initial	Final (mL)	Spike1	Source ID	ul Spike	ExtractionComments
BB21301-MS1	N/A	QC	02/08/12 16:06	10	10	1200092	1202004-01	100	
BB21301-MSD1	↓	QC	02/08/12 16:06	10	10	1200092	1202004-01	100	

ICAL Sequence for front Column

Maestro Sequence Table 1 - 120207_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

ICAL

	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	No Update	No 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	BB02705-BLK1	ALCOHOLS_FRONT.M	Tray1,VT98	9	1.0	water		Sample					
14	BB02705-BS1	ALCOHOLS_FRONT.M	Tray1,VT98	10	1.0			Sample					
15	12002001-20	ALCOHOLS_FRONT.M	Tray1,VT98	11	1.0			Sample					
16	BB02705-MS1	ALCOHOLS_FRONT.M	Tray1,VT98	12	1.0			Sample					
17	BB02705-MSD1	ALCOHOLS_FRONT.M	Tray1,VT98	13	1.0			Sample					
18	1202001-24	ALCOHOLS_FRONT.M	Tray1,VT98	14	1.0			Sample					
19	1202001-26	ALCOHOLS_FRONT.M	Tray1,VT98	15	1.0			Sample					
20	1202001-28	ALCOHOLS_FRONT.M	Tray1,VT98	16	1.0			Sample					
21	1202001-30	ALCOHOLS_FRONT.M	Tray1,VT98	17	1.0			Sample					
22	1202001-32	ALCOHOLS_FRONT.M	Tray1,VT98	18	1.0			Sample					
23	H2O	ALCOHOLS_FRONT.M	Tray1,VT98	1	1.0	water		Sample					
24	IBL3	ALCOHOLS_FRONT.M	Tray1,VT98	1	1.0	water		Sample					
25	CCV1	ALCOHOLS_FRONT.M	Tray1,VT98	5	1.0	ALCal4-111122-ACM		Sample					
26	H2O	ALCOHOLS_FRONT.M	Tray1,VT98	1	1.0	water		Sample					

GERSTEL — Repeat 7 times — Increment Vial/Data File — Increment Sample Name — OK — Cancel — Help

Modified — Injector: Front — Vial 15: 1202001-26

Start — Minesweeper — AG3-6890N (online): Me... — AG3-6890N (offline): Da... — Untitled - Paint — Control Panel — Maestro Sequence Ta... — 10:07 AM

DIM0209516 DIM0209560

Maestro Sequence Table 1 - 120213_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

AL JS 2/21/12

	Sample Name	Method	Tray	Vial	Volume	Sample Info	Filename	Type	Cal Level	Update RF	Update RT	Interval	Amou
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	ALCal4-111122-ACM		Sample					
4	H2O	ALCOHOLS_FRONT.M	Tray1,VT98	1	1.0	water		Sample					
5	BB21301-BLK1	ALCOHOLS_FRONT.M	Tray1,VT98	3	1.0	water		Sample					
6	BB21301-BS1	ALCOHOLS_FRONT.M	Tray1,VT98	4	1.0			Sample					
7	1202004-01	ALCOHOLS_FRONT.M	Tray1,VT98	5	1.0			Sample					
8	BB21301-MS1	ALCOHOLS_FRONT.M	Tray1,VT98	6	1.0			Sample					
9	BB21301-MSD1	ALCOHOLS_FRONT.M	Tray1,VT98	7	1.0			Sample					
10	1202004-03	ALCOHOLS_FRONT.M	Tray1,VT98	8	1.0			Sample					
11	1202004-06	ALCOHOLS_FRONT.M	Tray1,VT98	9	1.0			Sample					
12	1202004-08	ALCOHOLS_FRONT.M	Tray1,VT98	10	1.0			Sample					
13	1202004-11	ALCOHOLS_FRONT.M	Tray1,VT98	11	1.0			Sample					
14	1202004-13	ALCOHOLS_FRONT.M	Tray1,VT98	12	1.0			Sample					
15	1202004-15	ALCOHOLS_FRONT.M	Tray1,VT98	13	1.0			Sample					
16	1202004-17	ALCOHOLS_FRONT.M	Tray1,VT98	14	1.0			Sample					
17	1202004-21	ALCOHOLS_FRONT.M	Tray1,VT98	15	1.0			Sample					
18	1202004-22	ALCOHOLS_FRONT.M	Tray1,VT98	16	1.0			Sample					
19	1202004-23	ALCOHOLS_FRONT.M	Tray1,VT98	17	1.0			Sample					
20	H2O	ALCOHOLS_FRONT.M	Tray1,VT98	1	1.0	water		Sample					
21	IBL2	ALCOHOLS_FRONT.M	Tray1,VT98	1	1.0	water		Sample					
22	CCV2	ALCOHOLS_FRONT.M	Tray1,VT98	2	1.0	ALCal4-111122-ACM		Sample					
23	H2O	ALCOHOLS_FRONT.M	Tray1,VT98	1	1.0	water		Sample					
24	1202004-24	ALCOHOLS_FRONT.M	Tray1,VT98	18	1.0			Sample					
25	1202004-25	ALCOHOLS_FRONT.M	Tray1,VT98	19	1.0			Sample					
26	1202004-26	ALCOHOLS_FRONT.M	Tray1,VT98	20	1.0			Sample					
27	1202004-27	ALCOHOLS_FRONT.M	Tray1,VT98	21	1.0			Sample					
28	1202004-28	ALCOHOLS_FRONT.M	Tray1,VT98	22	1.0			Sample					
29	1202004-29	ALCOHOLS_FRONT.M	Tray1,VT98	23	1.0			Sample					
30	1202004-30	ALCOHOLS_FRONT.M	Tray1,VT98	24	1.0			Sample					
31	1202004-31	ALCOHOLS_FRONT.M	Tray1,VT98	25	1.0			Sample					
32	1202004-32	ALCOHOLS_FRONT.M	Tray1,VT98	26	1.0			Sample					
33	H2O	ALCOHOLS_FRONT.M	Tray1,VT98	1	1.0	water		Sample					
34	IBL3	ALCOHOLS_FRONT.M	Tray1,VT98	1	1.0	water		Sample					
35	CCV3	ALCOHOLS_FRONT.M	Tray1,VT98	2	1.0	ALCal4-111122-ACM		Sample					

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

Injector: Front — Vial 1 - H2O

Start | Minesweeper | AG3-6890N (online): Met... | AG3-6890N (offline): Me... | untitled - Paint | C:\Chem32\1\SEQUENCE | Maestro Sequence Ta... | 4:52 PM

DIM0209516 DIM0209562

Maestro Sequence Table 1 - 120213_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	Amou
3	CCV1	ALCOHOLS_FRONT.M	Tray1,VT98	2	1.0	ALCal4-111122-ACM		Sample					
4	H2O	ALCOHOLS_FRONT.M	Tray1,VT98	1	1.0	water		Sample					
5	BB21301-BLK1	ALCOHOLS_FRONT.M	Tray1,VT98	3	1.0	water		Sample					
6	BB21301-BS1	ALCOHOLS_FRONT.M	Tray1,VT98	4	1.0			Sample					
7	1202004-01	ALCOHOLS_FRONT.M	Tray1,VT98	5	1.0			Sample					
8	BB21301-MS1	ALCOHOLS_FRONT.M	Tray1,VT98	6	1.0			Sample					
9	BB21301-MSD1	ALCOHOLS_FRONT.M	Tray1,VT98	7	1.0			Sample					
10	1202004-03	ALCOHOLS_FRONT.M	Tray1,VT98	8	1.0			Sample					
11	1202004-06	ALCOHOLS_FRONT.M	Tray1,VT98	9	1.0			Sample					
12	1202004-08	ALCOHOLS_FRONT.M	Tray1,VT98	10	1.0			Sample					
13	1202004-11	ALCOHOLS_FRONT.M	Tray1,VT98	11	1.0			Sample					
14	1202004-13	ALCOHOLS_FRONT.M	Tray1,VT98	12	1.0			Sample					
15	1202004-15	ALCOHOLS_FRONT.M	Tray1,VT98	13	1.0			Sample					
16	1202004-17	ALCOHOLS_FRONT.M	Tray1,VT98	14	1.0			Sample					
17	1202004-21	ALCOHOLS_FRONT.M	Tray1,VT98	15	1.0			Sample					
18	1202004-22	ALCOHOLS_FRONT.M	Tray1,VT98	16	1.0			Sample					
19	1202004-23	ALCOHOLS_FRONT.M	Tray1,VT98	17	1.0			Sample					
20	H2O	ALCOHOLS_FRONT.M	Tray1,VT98	1	1.0	water		Sample					
21	IBL2	ALCOHOLS_FRONT.M	Tray1,VT98	1	1.0	water		Sample					
22	CCV2	ALCOHOLS_FRONT.M	Tray1,VT98	2	1.0	ALCal4-111122-ACM		Sample					
23	H2O	ALCOHOLS_FRONT.M	Tray1,VT98	1	1.0	water		Sample					
24	1202004-24	ALCOHOLS_FRONT.M	Tray1,VT98	18	1.0			Sample					
25	1202004-25	ALCOHOLS_FRONT.M	Tray1,VT98	19	1.0			Sample					
26	1202004-26	ALCOHOLS_FRONT.M	Tray1,VT98	20	1.0			Sample					
27	1202004-27	ALCOHOLS_FRONT.M	Tray1,VT98	21	1.0			Sample					
28	1202004-28	ALCOHOLS_FRONT.M	Tray1,VT98	22	1.0			Sample					
29	1202004-29	ALCOHOLS_FRONT.M	Tray1,VT98	23	1.0			Sample					
30	1202004-30	ALCOHOLS_FRONT.M	Tray1,VT98	24	1.0			Sample					
31	1202004-31	ALCOHOLS_FRONT.M	Tray1,VT98	25	1.0			Sample					
32	1202004-32	ALCOHOLS_FRONT.M	Tray1,VT98	26	1.0			Sample					
33	H2O	ALCOHOLS_FRONT.M	Tray1,VT98	1	1.0	water		Sample					
34	IBL3	ALCOHOLS_FRONT.M	Tray1,VT98	1	1.0	water		Sample					
35	CCV3	ALCOHOLS_FRONT.M	Tray1,VT98	2	1.0	ALCal4-111122-ACM		Sample					
36	H2O	ALCOHOLS_FRONT.M	Tray1,VT98	1	1.0	water		Sample					

Vial 3: BB21301-BLK1

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

Injector: Front — Vial 1: H2O

Start | Minesweeper | AG3-6890N (online): Mot... | AG3-6890N (offline): Me... | untitled - Paint | C:\Chem32\1\SEQUENCE | Maestro Sequence Ta... | 4:52 PM

DIM0209516 DIM0209564

ICAL Sequence for Back Column

Maestro Sequence Table 1 - 120207_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

pc 2/21/12 33

ICAL

	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	No Update		
4	Cal 2	ALCOHOLS_BACK.M	Tray1,VT98	3	0.8	ALCal2-111122-ACM		Calibration	2	No Update	Vial 2: Cal 1		
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	BB20705-BLK1	ALCOHOLS_BACK.M	Tray1,VT98	9	0.8	water		Sample					
14	BB20705-B51	ALCOHOLS_BACK.M	Tray1,VT98	10	0.8			Sample					
15	12002001-20	ALCOHOLS_BACK.M	Tray1,VT98	11	0.8			Sample					
16	BB20705-MS1	ALCOHOLS_BACK.M	Tray1,VT98	12	0.8			Sample					
17	BB20705-MSD	ALCOHOLS_BACK.M	Tray1,VT98	13	0.8			Sample					
18	1202001-22	ALCOHOLS_BACK.M	Tray1,VT98	19	0.8			Sample					
19	1202001-23	ALCOHOLS_BACK.M	Tray1,VT98	20	0.8			Sample					
20	1202001-24	ALCOHOLS_BACK.M	Tray1,VT98	14	0.8			Sample					
21	1202001-26	ALCOHOLS_BACK.M	Tray1,VT98	15	0.8			Sample					
22	1202001-28	ALCOHOLS_BACK.M	Tray1,VT98	16	0.8			Sample					
23	1202001-30	ALCOHOLS_BACK.M	Tray1,VT98	17	0.8			Sample					
24	1202001-32	ALCOHOLS_BACK.M	Tray1,VT98	18	0.8			Sample					
25	1202001-43	ALCOHOLS_BACK.M	Tray1,VT98	21	0.8			Sample					
26	1202001-44	ALCOHOLS_BACK.M	Tray1,VT98	22	0.8			Sample					
27	1202001-45	ALCOHOLS_BACK.M	Tray1,VT98	23	0.8			Sample					
28	1202001-46	ALCOHOLS_BACK.M	Tray1,VT98	24	0.8			Sample					
29	H2O	ALCOHOLS_BACK.M	Tray1,VT98	1	0.8	water		Sample					
30	IBL3	ALCOHOLS_BACK.M	Tray1,VT98	1	0.8	water		Sample					
31	CCV1	ALCOHOLS_BACK.M	Tray1,VT98	5	0.8	ALCal4-111122-ACM		Sample					
32	H2O	ALCOHOLS_BACK.M	Tray1,VT98	1	0.8	water		Sample					

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

Injector: Rear Vial 1 - H2O

Start Minesweeper AG3-6890N (online) - Met... AG3-6890N (offline) - Dat... Untitled - Paint Maestro Sequence Ta... 7:25 AM

DIM0209516 DIM0209566

1202004 1-32

Maestro Sequence Table 1 - 120213_ALCOHOL_BACK.5

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	Amou
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	BB21301-BLK1	ALCOHOLS_BACK.M	Tray1,VT98	3	0.8	water		Sample					
6	BB21301-BS1	ALCOHOLS_BACK.M	Tray1,VT98	4	0.8			Sample					
7	1202004-01	ALCOHOLS_BACK.M	Tray1,VT98	5	0.8			Sample					
8	BB21301-MS1	ALCOHOLS_BACK.M	Tray1,VT98	6	0.8			Sample					
9	BB21301-MSD1	ALCOHOLS_BACK.M	Tray1,VT98	7	0.8			Sample					
10	1202004-03	ALCOHOLS_BACK.M	Tray1,VT98	8	0.8			Sample					
11	1202004-06	ALCOHOLS_BACK.M	Tray1,VT98	9	0.8			Sample					
12	1202004-08	ALCOHOLS_BACK.M	Tray1,VT98	10	0.8			Sample					
13	1202004-11	ALCOHOLS_BACK.M	Tray1,VT98	11	0.8			Sample					
14	1202004-13	ALCOHOLS_BACK.M	Tray1,VT98	12	0.8			Sample					
15	1202004-15	ALCOHOLS_BACK.M	Tray1,VT98	13	0.8			Sample					
16	1202004-17	ALCOHOLS_BACK.M	Tray1,VT98	14	0.8			Sample					
17	1202004-21	ALCOHOLS_BACK.M	Tray1,VT98	15	0.8			Sample					
18	1202004-22	ALCOHOLS_BACK.M	Tray1,VT98	16	0.8			Sample					
19	1202004-23	ALCOHOLS_BACK.M	Tray1,VT98	17	0.8			Sample					
20	H2O	ALCOHOLS_BACK.M	Tray1,VT98	1	0.8	water		Sample					
21	IBL2	ALCOHOLS_BACK.M	Tray1,VT98	1	0.8	water		Sample					
22	CCV2	ALCOHOLS_BACK.M	Tray1,VT98	2	0.8	ALCal4-111122-ACM		Sample					
23	H2O	ALCOHOLS_BACK.M	Tray1,VT98	1	0.8	water		Sample					
24	1202004-24	ALCOHOLS_BACK.M	Tray1,VT98	18	0.8			Sample					
25	1202004-25	ALCOHOLS_BACK.M	Tray1,VT98	19	0.8			Sample					
26	1202004-26	ALCOHOLS_BACK.M	Tray1,VT98	20	0.8			Sample					
27	1202004-27	ALCOHOLS_BACK.M	Tray1,VT98	21	0.8			Sample					
28	1202004-28	ALCOHOLS_BACK.M	Tray1,VT98	22	0.8			Sample					
29	1202004-29	ALCOHOLS_BACK.M	Tray1,VT98	23	0.8			Sample					
30	1202004-30	ALCOHOLS_BACK.M	Tray1,VT98	24	0.8			Sample					
31	1202004-31	ALCOHOLS_BACK.M	Tray1,VT98	25	0.8			Sample					
32	1202004-32	ALCOHOLS_BACK.M	Tray1,VT98	26	0.8			Sample					
33	H2O	ALCOHOLS_BACK.M	Tray1,VT98	1	0.8	water		Sample					
34	IBL3	ALCOHOLS_BACK.M	Tray1,VT98	1	0.8	water		Sample					
35	CCV3	ALCOHOLS_BACK.M	Tray1,VT98	2	0.8	ALCal4-111122-ACM		Sample					
36	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 | Minesweeper | AG3-6890N (online): Met... | AG3-6890N (offline): Det... | untitled - Paint | Control Panel | Maestro Sequence Ta... | 6:47 AM

DIM0209516 DIM0209568

2nd list to have complete xaux

JS 2/21/12

Maestro Sequence Table 1 - 120213_ALCOHOL_BACK.S

Syringe: 10ul — Current MPS Syringe: 10ul

Injector: Front (Front) / Back (Rear)

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

RAL JS 2/21/12

Use PrepAhead

	Sample Name	Method	Tray	Vial	Volume	Sample Info	Filename	Type	Cal Level	Update RF	Update RT	Interval	Amou
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	BB21301-BLK1	ALCOHOLS_BACK.M	Tray1,VT98	3	0.8	water		Sample					
6	BB21301-BS1	ALCOHOLS_BACK.M	Tray1,VT98	4	0.8			Sample					
7	1202004-01	ALCOHOLS_BACK.M	Tray1,VT98	5	0.8			Sample					
8	BB21301-MS1	ALCOHOLS_BACK.M	Tray1,VT98	6	0.8			Sample					
9	BB21301-MSD1	ALCOHOLS_BACK.M	Tray1,VT98	7	0.8			Sample					
10	1202004-03	ALCOHOLS_BACK.M	Tray1,VT98	8	0.8			Sample					
11	1202004-06	ALCOHOLS_BACK.M	Tray1,VT98	9	0.8			Sample					
12	1202004-08	ALCOHOLS_BACK.M	Tray1,VT98	10	0.8			Sample					
13	1202004-11	ALCOHOLS_BACK.M	Tray1,VT98	11	0.8			Sample					
14	1202004-13	ALCOHOLS_BACK.M	Tray1,VT98	12	0.8			Sample					
15	1202004-15	ALCOHOLS_BACK.M	Tray1,VT98	13	0.8			Sample					
16	1202004-17	ALCOHOLS_BACK.M	Tray1,VT98	14	0.8			Sample					
17	1202004-21	ALCOHOLS_BACK.M	Tray1,VT98	15	0.8			Sample					
18	1202004-22	ALCOHOLS_BACK.M	Tray1,VT98	16	0.8			Sample					
19	1202004-23	ALCOHOLS_BACK.M	Tray1,VT98	17	0.8			Sample					
20	H2O	ALCOHOLS_BACK.M	Tray1,VT98	1	0.8	water		Sample					
21	IBL2	ALCOHOLS_BACK.M	Tray1,VT98	1	0.8	water		Sample					
22	CCV2	ALCOHOLS_BACK.M	Tray1,VT98	2	0.8	ALCal4-111122-ACM		Sample					
23	H2O	ALCOHOLS_BACK.M	Tray1,VT98	1	0.8	water		Sample					
24	1202004-24	ALCOHOLS_BACK.M	Tray1,VT98	18	0.8			Sample					
25	1202004-25	ALCOHOLS_BACK.M	Tray1,VT98	19	0.8			Sample					
26	1202004-26	ALCOHOLS_BACK.M	Tray1,VT98	20	0.8			Sample					
27	1202004-27	ALCOHOLS_BACK.M	Tray1,VT98	21	0.8			Sample					
28	1202004-28	ALCOHOLS_BACK.M	Tray1,VT98	22	0.8			Sample					
29	1202004-29	ALCOHOLS_BACK.M	Tray1,VT98	23	0.8			Sample					
30	1202004-30	ALCOHOLS_BACK.M	Tray1,VT98	24	0.8			Sample					
31	1202004-31	ALCOHOLS_BACK.M	Tray1,VT98	25	0.8			Sample					
32	1202004-32	ALCOHOLS_BACK.M	Tray1,VT98	26	0.8			Sample					
33	H2O	ALCOHOLS_BACK.M	Tray1,VT98	1	0.8	water		Sample					
34	IBL3	ALCOHOLS_BACK.M	Tray1,VT98	1	0.8	water		Sample					
35	CCV3	ALCOHOLS_BACK.M	Tray1,VT98	2	0.8	ALCal4-111122-ACM		Sample					
36	H2O	ALCOHOLS_BACK.M	Tray1,VT98		0.8	water		Sample					

Vial 23: 1202004-29

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

Modified — Injector: Rear — Vial: - H2O

Start | Minesweeper | AG3-6890N (online): Met... | AG3-6890N (offline): Det... | untitled - Paint | Control Panel | Maestro Sequence Ta... | 8:47 AM

DIM0209516 DIM0209570

Inst. Maint Logbook

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

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.

Am

Alcohol Cal Stds (*) Exp 11-22-12

ID	Std	IConc	IVol	FVol	FConc
ALCal1-111122-Acn	CH3603-111122	10,000ppm	10mL	10mL	10ppm
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

(*) Used in this case file

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
Expiration Date 11-22-12 Acn

ALSCV-111122-Acn exp 11-22-12 (*) (110076C)

Std	IConc	IVol	FVol	FConc
B8060148-111122	10,000ppm	100µL	10mL	100ppm

Reagent Purity Check: ok Acn | in Water 18Ω

AccuStandard 125 Market St. · New Haven, CT 06513 · USA Tel: 203-786-5290 · www.accustandard.com
S-10969
Custom Alcohol Mix
10 mg/mL in Water
Lot: B8060148
Exp: Jun 13, 2018
~~0800350~~ 1/22/12 1 mL
rec 6/17/08 5 comps.
FOR LABORATORY USE ONLY
open 11-22-11
exp 11-22-12
STORAGE Ambient Acn
POISON [redacted]

Florisil Phenol Chk Std in Hexane | FPhenChk-111209-Acn | exp 5-10-12

Std	IConc	IVol	FVol	FConc
A084784-111110	1000 ppm	5µL	50mL	100ppb

Reagent Purity Check: OK Acn In Hexane 12765

~~Pest Surrogate Intermediate PestSurrInt-111221-Acn, Exp: 2-8-12~~

~~Std IConc IVol FVol FConc~~

~~1000432 100/200ppm 400µL~~

A 12-21-11

DIM02095

1016/1260 SCV - 120126 - Am Exp 3-1-12

Std	Iconc	Ivol	Fvol	Fconc
CF0785-120126	100ppm	100uL	10mL	1ppm
CG3829-120126	↓	↓	↓	↓
SurrInt-110901-Am	10ppm	100uL	↓	0.1ppm

Reagent Purity Check: OK In Hexane 12698

PP-281-1 Lot: CF-0785 Exp: 03/31/2017 ULTRA 1 mL Aroclor 1016 Solution 1 analyte(s) at 100 µg/mL in hexane 250 Smith St, No Kingstown, RI 02852 USA — Opened 7-26-12 Am Exp 7-26-12

PP-361-1 Lot: CG-3829 Exp: 12/31/2014 ULTRA 1 mL Aroclor 1260 Solution 1 analyte(s) at 100 µg/mL in hexane 250 Smith St, No Kingstown, RI 02852 USA — Opened 7-26-12 Am Exp 7-26-12

Methanol Retention time Check Std. Exp 7-26-12

Std	Iconc	Ivol	Fvol	Fconc
MeOH(neat)	neat	10uL	100mL	100ppm

Reagent Purity Chk. OK Am In Water 18Ω

Reagent Purity Check: OK Am In Water 18Ω

Ethanol Retention time Check Std. Exp 7-26-12

Std	Iconc	Ivol	Fvol	Fconc
EtOH	neat	10uL	100mL	100ppm

Reagent Purity Check: OK Am In Water 18Ω

1-Propanol Retention Time Check Std. Exp 7-26-12.

Std	Iconc	Ivol	Fvol	Fconc
1-Propanol	(neat)	10uL	100mL	100ppm

B8060148-120204 (*) - Alcohols Matrix spike/2nd Std.
- vial opened on 2/4/12, exp 2/4/13.
conc 10mg/L (12000 92)

(*) = used in this case file

AccuStandard 125 Market St. • New Haven, CT 06513 • USA Tel. 203-786-5290 • www.accustandard.com FOR LABORATORY USE ONLY
S-10969 rec 6/12/08 1 mL
Custom Alcohol Mix 0800350
10 mg/mL in Water
Lot: B8060148 .5 comps.
Exp: Jun 13, 2018 STORAGE Ambient
POISON [redacted]

Am Exp 2/4/13 Opened 2/4/12

DIM02095

Analytical Standard Record
U.S. EPA Region 3
1200092

std_Org_analytical.rpt

Description:	ACM 111122 Custom Alcohol Mix Stock	Expires:	02/04/2013
Standard Type:	Analyte Spike	Prepared:	02/04/2012
Department:	ORGANIC- GC	Prepared By:	** Vendor **
Solvent:	Water	Vendor:	AccuStandard
Final Volume (mls):	1	Vendor Lot:	B8060148
Vials:	1	Received:	06/17/2008
Reagent Purity Checked	Aem	Mfgr Expiration:	06/13/2018

Storage: Ambient
Custom prepared standard.

Analyte	CAS Number	Concentration	Units
1-Butanol	71-36-3	10000	ug/mL
1-Propanol	71-23-8	10000	ug/mL
2-Butanol	78-92-2	10000	ug/mL
Ethanol	64-17-5	10000	ug/mL
Methanol	67-56-1	10000	ug/mL

- Sticker is in PNB 211

Am
2-16-12

DIM02095

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
3

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

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]
[redacted] QC Manager

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

CR-ORG/NO-001
Rev. 06/05

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

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

Case File Contents

Alcohols

Alcohols by EPA 8015D

WO 1202004

Dimock Residential Groundwater

DAS R33907

Calibration Data

M0209516

Instrument Method

Front

Method Information

Method: C:\CHEM32\1\METHODS\ALCOHOLS_FRONT.M
Modified: 1/31/2012 at 7:43:47 AM

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: ""

Operator : ACM
Date : 1/27/2012 9:09:23 AM
Change Info: Method saved. User comment: ""

ACM

Operator : ACM
Date : 1/27/2012 9:44:40 AM
Change Info: Method saved. User comment: ""

Operator : ACM
Date : 1/31/2012 7:43:47 AM
Change Info: Method saved. User comment: "removed signal 2 from quant report"

Run Time Checklist

Modified on: 1/31/2012 at 7:43:47 AM

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

Save Method with Data: off

Injection Source and Location

Injection Source: Manual ← inj source is Gerstel MPS autosampler

Injection Location: Front

2-1-12

==========

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: 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: 57.1 mL/min
Gas saver: Off
Gas type: Helium

ACM

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

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 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

Average velocity: 30 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)
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

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
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

SIGNAL 2
Data rate: 20 Hz
Type: back detector
Save Data: Off
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

Am

The Data Analysis Parameters of the used Method are :

Calibration Table

Alcohols

Calib. Data Modified : Thursday, February 09, 2012 8:16:16 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

- I Cal for 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)

AM 2-9-12

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

- used for all Samples on Front Column

AM 2-15-12

RetTime [min]	Sig	Lvl	Amount [ug/mL]	Area	Amt/Area	Ref	Grp	Name
1.513	1	1	10.00000	38.89928	2.57074e-1			Methanol
		2	25.00000	93.87627	2.66308e-1			
		3	50.00000	186.46002	2.68154e-1			
		4	100.00000	351.84988	2.84212e-1			
		5	250.00000	913.00793	2.73820e-1			
		6	500.00000	1882.80688	2.65561e-1			
1.738	1	1	10.00000	94.51188	1.05807e-1			Ethanol
		2	25.00000	234.97745	1.06393e-1			
		3	50.00000	468.15240	1.06803e-1			
		4	100.00000	929.56964	1.07577e-1			
		5	250.00000	2336.44116	1.07000e-1			
		6	500.00000	4582.42139	1.09113e-1			
2.528	1	1	10.00000	85.75124	1.16616e-1			1-Propanol
		2	25.00000	203.56302	1.22812e-1			
		3	50.00000	413.87625	1.20809e-1			
		4	100.00000	765.16553	1.30691e-1			
		5	250.00000	1987.11267	1.25811e-1			
		6	500.00000	4236.63770	1.18018e-1			
2.760	1	1	10.00000	124.97431	8.00164e-2			2-Butanol
		2	25.00000	314.13422	7.95838e-2			
		3	50.00000	638.17633	7.83483e-2			
		4	100.00000	1228.30212	8.14132e-2			

RetTime [min]	Sig	Lvl	Amount [ug/mL]	Area	Amt/Area	Ref	Grp	Name
		5	250.00000	3111.10181	8.03574e-2			
		6	500.00000	6195.79688	8.06999e-2			
4.774	1	1	10.00000	111.45800	8.97199e-2			1-Butanol
		2	25.00000	272.97894	9.15822e-2			
		3	50.00000	549.46362	9.09978e-2			
		4	100.00000	1060.74060	9.42738e-2			
		5	250.00000	2685.46436	9.30938e-2			
		6	500.00000	5446.19531	9.18072e-2			

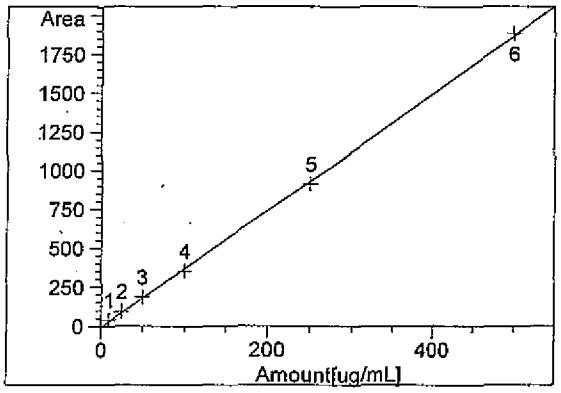
More compound-specific settings:

Compound: 2-Butanol
Time Window : From 2.605 min To 2.806 min

Peak Sum Table

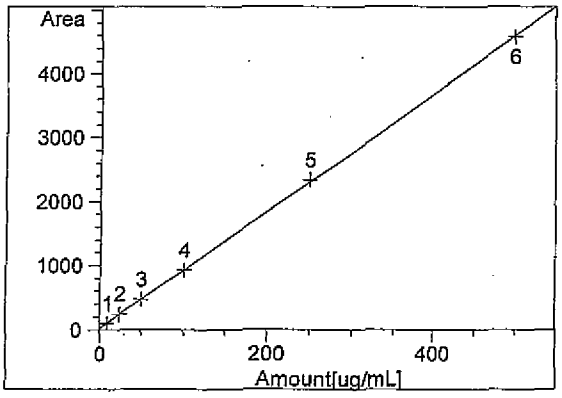
No Entries in table

Calibration Curves



Methanol at exp. RT: 1.513
FID1 A,
Correlation: 0.99982
Residual Std. Dev.: 15.23288
Formula: y = mx + b
m: 3.75868
b: -7.91091
x: Amount
y: Area

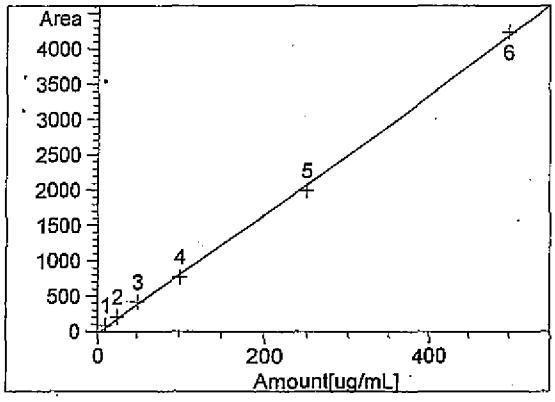
Ok
Checked w/ Excel



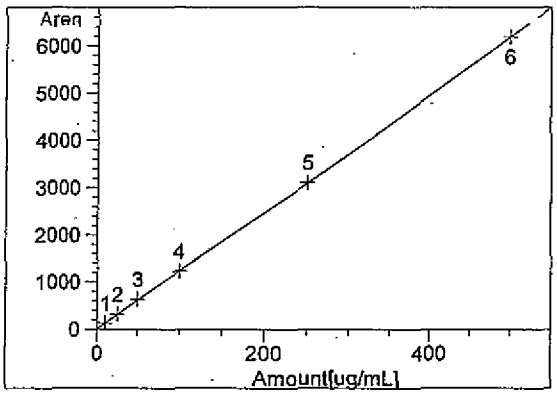
Ethanol at exp. RT: 1.738
FID1 A,
Correlation: 0.99996
Residual Std. Dev.: 18.45009
Formula: y = mx + b
m: 9.17204
b: 11.70248
x: Amount
y: Area

Ok
Checked w/ Excel

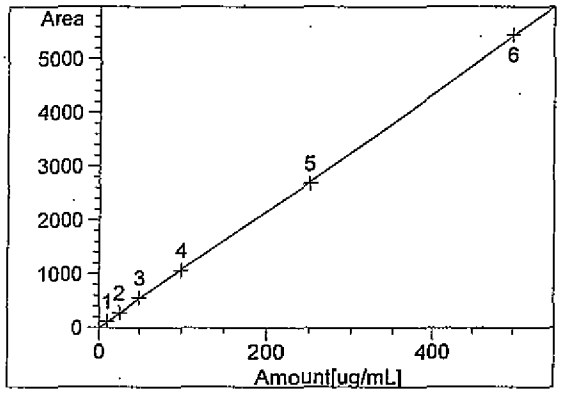
Am



1-Propanol at exp. RT: 2.528
FID1 A,
Correlation: 0.99941
Residual Std. Dev.: 61.43340
Formula: y = mx + b
m: 8.44106
b: -33.38142
x: Amount
y: Area



2 Butanol at exp. RT. 2.760
FID1 A,
Correlation: 0.99999
Residual Std. Dev.: 11.60199
Formula: y = mx + b
m: 12.38692
b: 5.11924
x: Amount
y: Area



1-Butanol at exp. RT: 4.774
FID1 A,
Correlation: 0.99996
Residual Std. Dev.: 20.30407
Formula: y = mx + b
m: 10.87616
b: -7.15098
x: Amount
y: Area

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Acm

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
An 2-9

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 Use
Jan 2-9

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

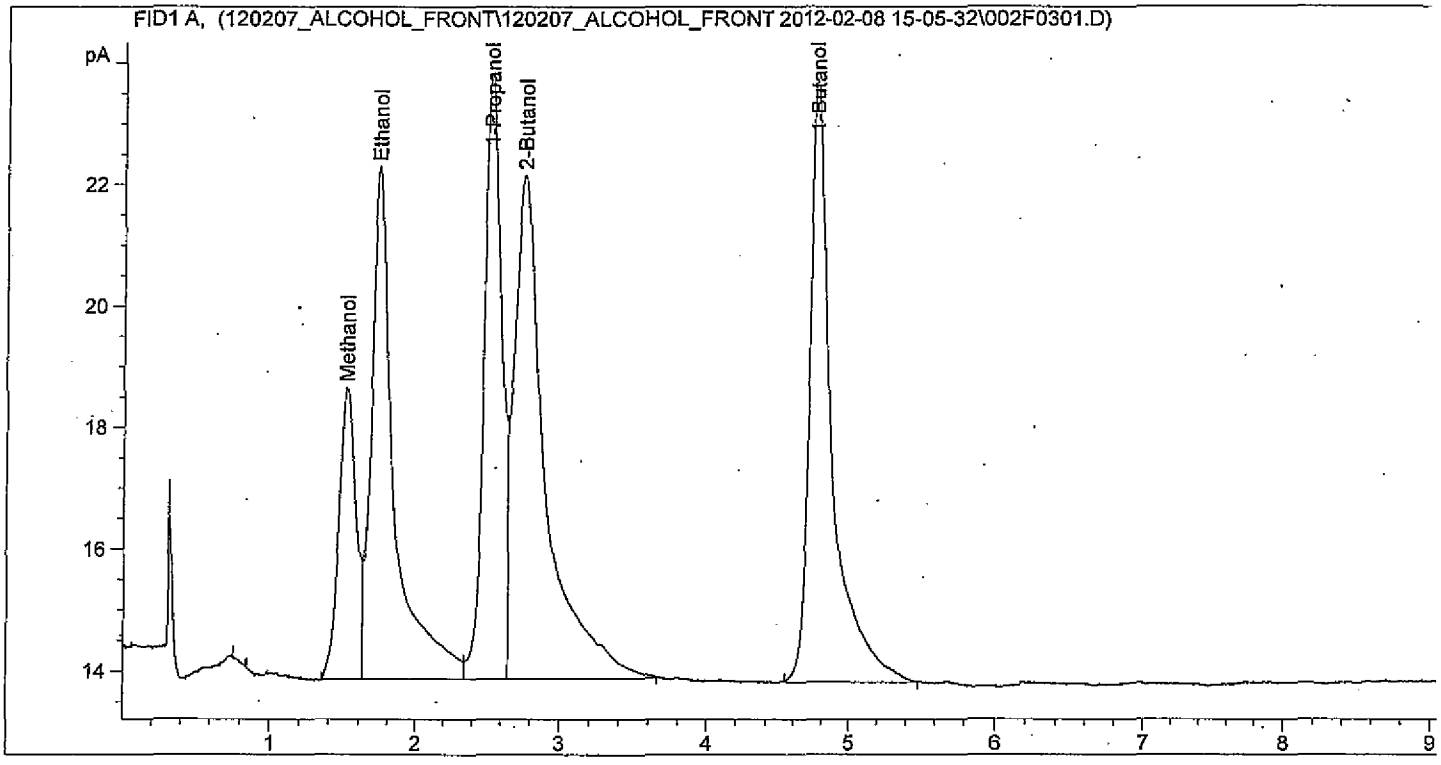
Apply Method's Manual Integration Events: No

Sample Name: Cal 1

Acq. Operator	: ACM	Seq. Line :	3
Acq. Instrument	: AG3-6890N	Location :	Vial 2
Injection Date	: 2/8/2012 3:36:08 PM	Inj :	1
		Inj Volume :	1 µl

Acq. Method : C:\CHEM32\1\DATA\120207_ALCOHOL_FRONT\120207_ALCOHOL_FRONT 2012-02-08 05-32\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120207.M
Last changed : 2/9/2012 7:58:30 AM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : ALCal1-111122-ACM



External Standard Report

Sorted By : Signal
Calib. Data Modified : Thursday, February 09, 2012 7:58:14 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Aim

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.517	BV	38.89928	3.20157e-1	12.45389		Methanol
1.742	VV	94.51188	9.55272e-2	9.02846		Ethanol
2.533	VV	85.75124	1.21153e-1	10.38905		1-Propanol

ok checked w/E

Sample Name: Cal 1

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.767	VB	124.97431	7.74234e-2	9.67594		2-Butanol
4.776	BB	111.45800	9.78432e-2	10.90541		1-Butanol

Totals : 52.45275

*** End of Report ***

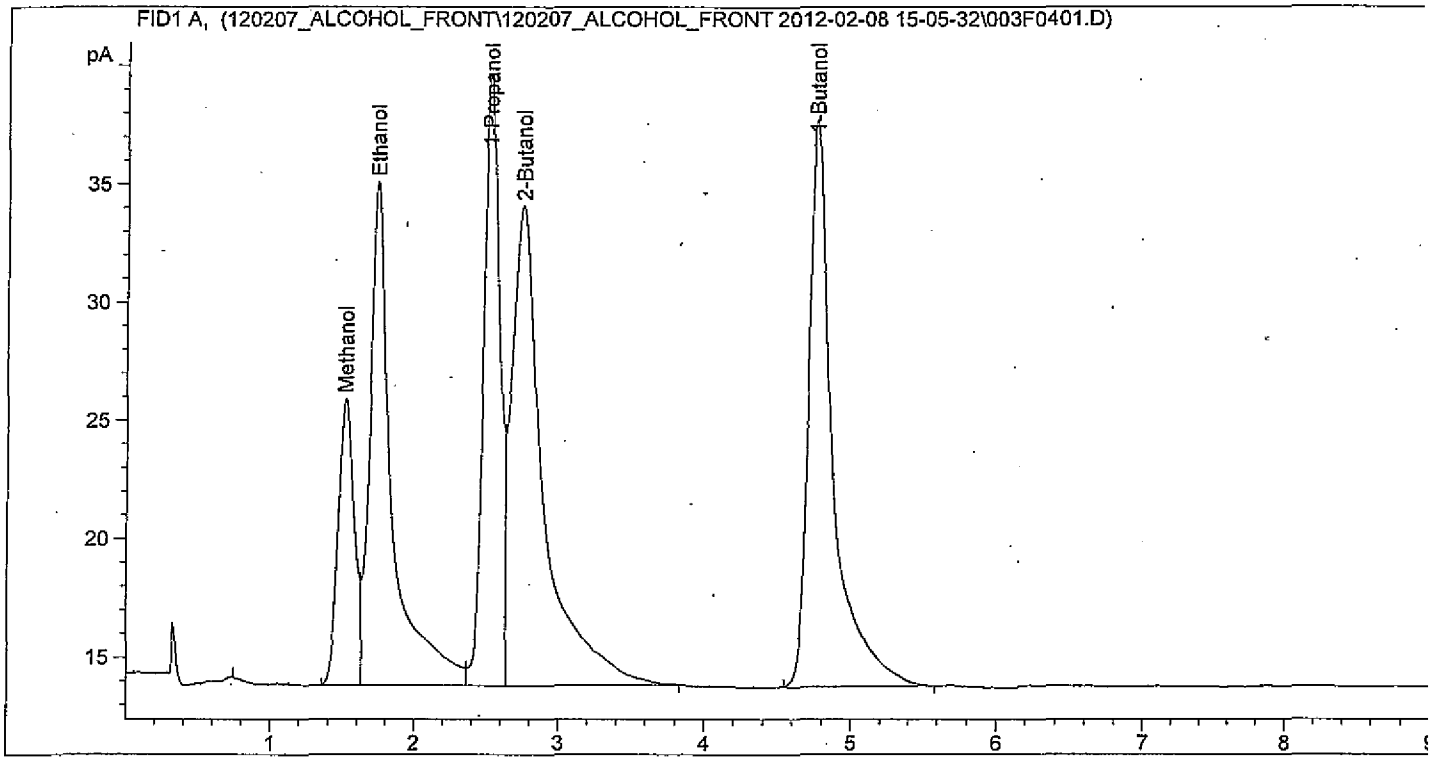
Ar

Sample Name: Cal 2

Acq. Operator	: ACM	Seq. Line :	4
Acq. Instrument	: AG3-6890N	Location :	Vial 3
Injection Date	: 2/8/2012 3:49:58 PM	Inj :	1
		Inj Volume :	1 µl

Acq. Method : C:\CHEM32\1\DATA\120207_ALCOHOL_FRONT\120207_ALCOHOL_FRONT 2012-02-08 05-32\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120207.M
Last changed : 2/9/2012 7:58:30 AM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : ALCal2-111122-ACM



External Standard Report

Sorted By : Signal
Calib. Data Modified : Thursday, February 09, 2012 7:58:14 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
1.514	BV	93.87627	2.88471e-1	27.08056		Methanol
1.739	VV	234.97745	1.03597e-1	24.34300		Ethanol — ok, checked w/ Ex
2.526	VV	203.56302	1.24281e-1	25.29907		1-Propanol

Sample Name: Cal 2

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.755	VB	314.13422	7.94147e-2	24.94688		2-Butanol
4.771	BB	272.97894	9.43528e-2	25.75633		1-Butanol

Totals : 127.42584

*** End of Report ***

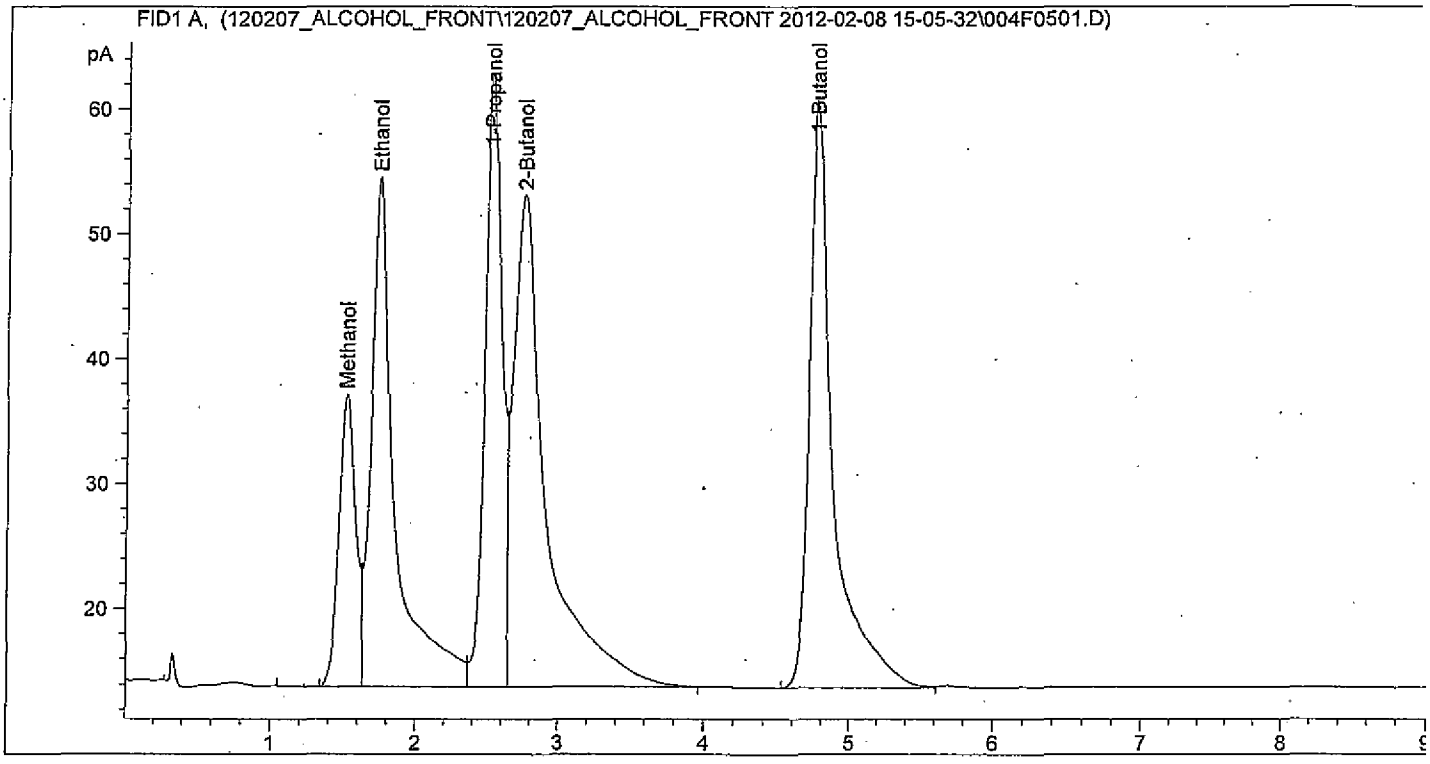
AM

Sample Name: Cal 3

Acq. Operator	: ACM	Seq. Line :	5
Acq. Instrument	: AG3-6890N	Location :	Vial 4
Injection Date	: 2/8/2012 4:03:46 PM	Inj :	1
		Inj Volume :	1 µl

Acq. Method : C:\CHEM32\1\DATA\120207_ALCOHOL_FRONT\120207_ALCOHOL_FRONT 2012-02-08 05-32\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120207.M
Last changed : 2/9/2012 7:58:30 AM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : ALCal3-111122-ACM



External Standard Report

Sorted By : Signal
Calib. Data Modified : Thursday, February 09, 2012 7:58:14 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	BV	186.46002	2.77339e-1	51.71255		Methanol
1.741	VV	468.15240	1.06302e-1	49.76536		Ethanol — ok, checked w/
2.529	VV	413.87625	1.25438e-1	51.91590		1-Propanol

Sample Name: Cal 3

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.761	VB	638.17633	8.00827e-2	51.10690		2-Butanol
4.773	BB	549.46362	9.31408e-2	51.17751		1-Butanol

Totals : 255.67822

*** End of Report ***

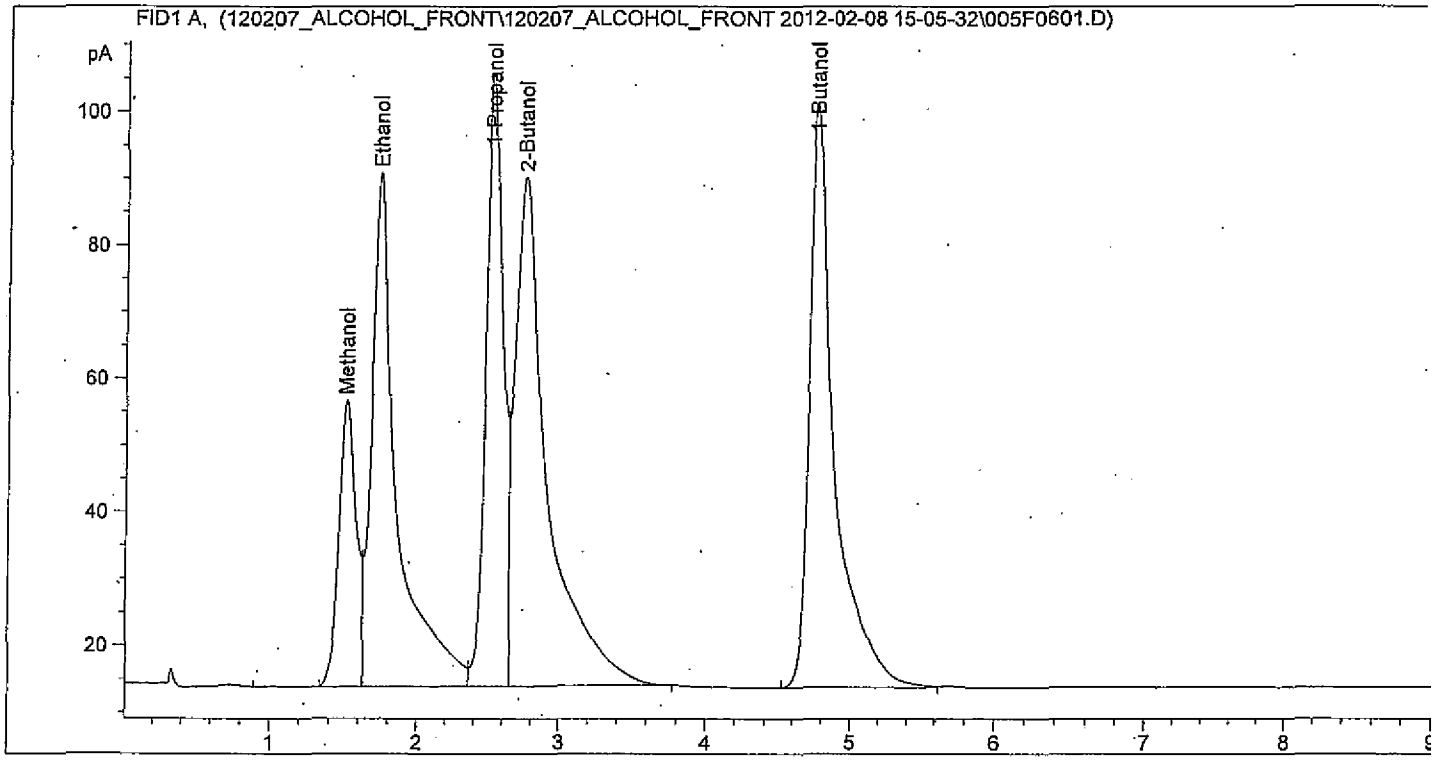
Am

Sample Name: Cal 4

Acq. Operator	: ACM	Seq. Line :	6
Acq. Instrument	: AG3-6890N	Location :	Vial 5
Injection Date	: 2/8/2012 4:17:36 PM	Inj :	1
		Inj Volume :	1 µl

Acq. Method : C:\CHEM32\1\DATA\120207_ALCOHOL_FRONT\120207_ALCOHOL_FRONT 2012-02-08 05-32\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120207.M
Last changed : 2/9/2012 7:58:30 AM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : ALCal4-111122-ACM



External Standard Report

Sorted By : Signal
Calib. Data Modified : Thursday, February 09, 2012 7:58:14 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
1.513	BV	351.84988	2.72033e-1	95.71467		Methanol
1.738	VV	929.56964	1.07654e-1	100.07228		Ethanol
2.528	VV	765.16553	1.25952e-1	96.37438		1-Propanol

ok, checked w/

Sample Name: Cal 4

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.760	VB	1228.30212	8.03939e-2	98.74794		2-Butanol
4.774	BB	1060.74060	9.25641e-2	98.18648		1-Butanol

Totals : 489.09575

*** End of Report ***

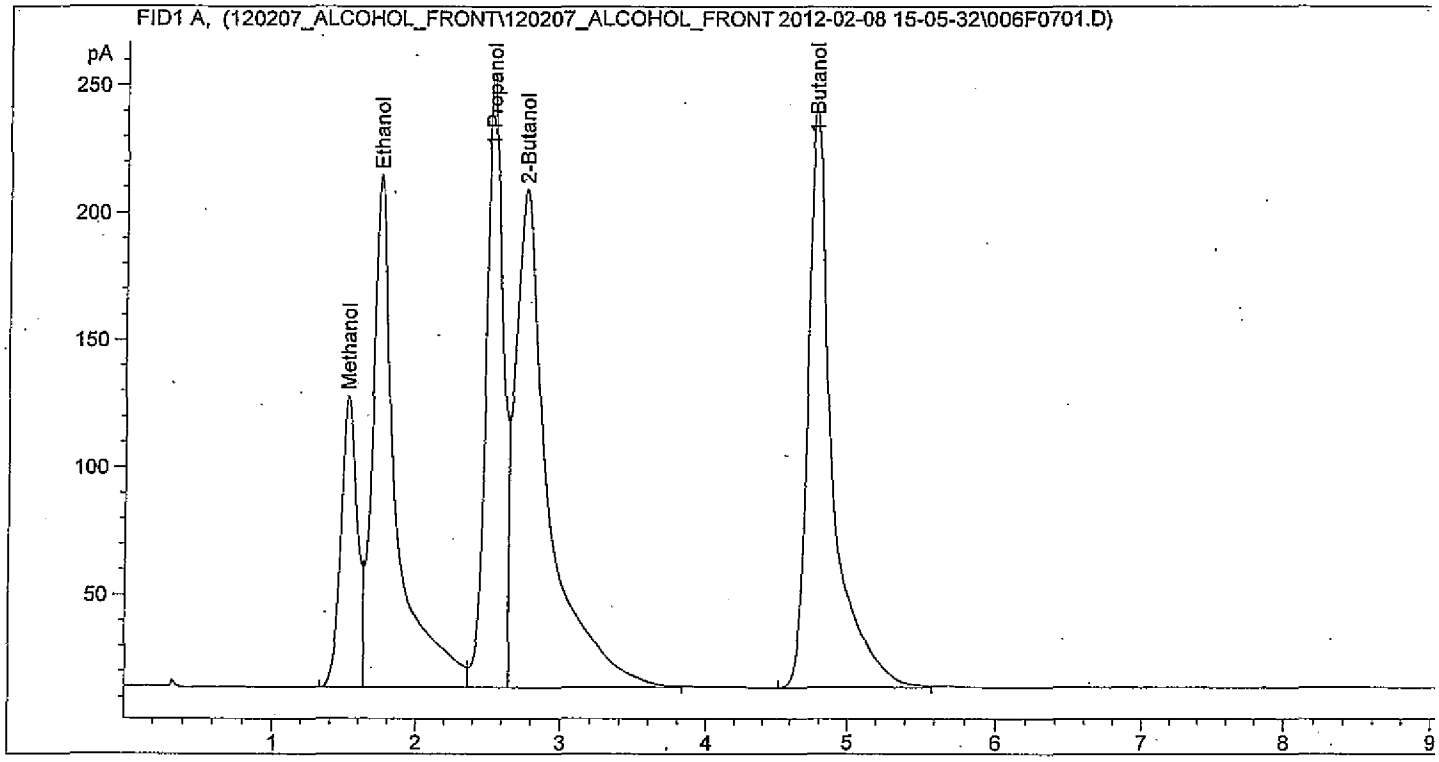
Acm

Sample Name: Cal 5

Acq. Operator	: ACM	Seq. Line :	7
Acq. Instrument	: AG3-6890N	Location :	Vial 6
Injection Date	: 2/8/2012 4:31:26 PM	Inj :	1
		Inj Volume :	1 µl

Acq. Method : C:\CHEM32\1\DATA\120207_ALCOHOL_FRONT\120207_ALCOHOL_FRONT 2012-02-08 05-32\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120207.M
Last changed : 2/9/2012 7:58:30 AM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : ALCal5-111122-ACM



External Standard Report

Sorted By : Signal
Calib. Data Modified : Thursday, February 09, 2012 7:58:14 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	913.00793	2.68356e-1	245.01124		Methanol
1.741	VV	2336.44116	1.08481e-1	253.45923		Ethanol
2.530	VV	1987.11267	1.26325e-1	251.02160		1-Propanol

Aem

ok, checked w/E

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.760	VV	3111.10181	8.05975e-2	250.74696		2-Butanol
4.777	BV	2685.46436	9.21891e-2	247.57048		1-Butanol

Totals : 1247.80952

*** End of Report ***

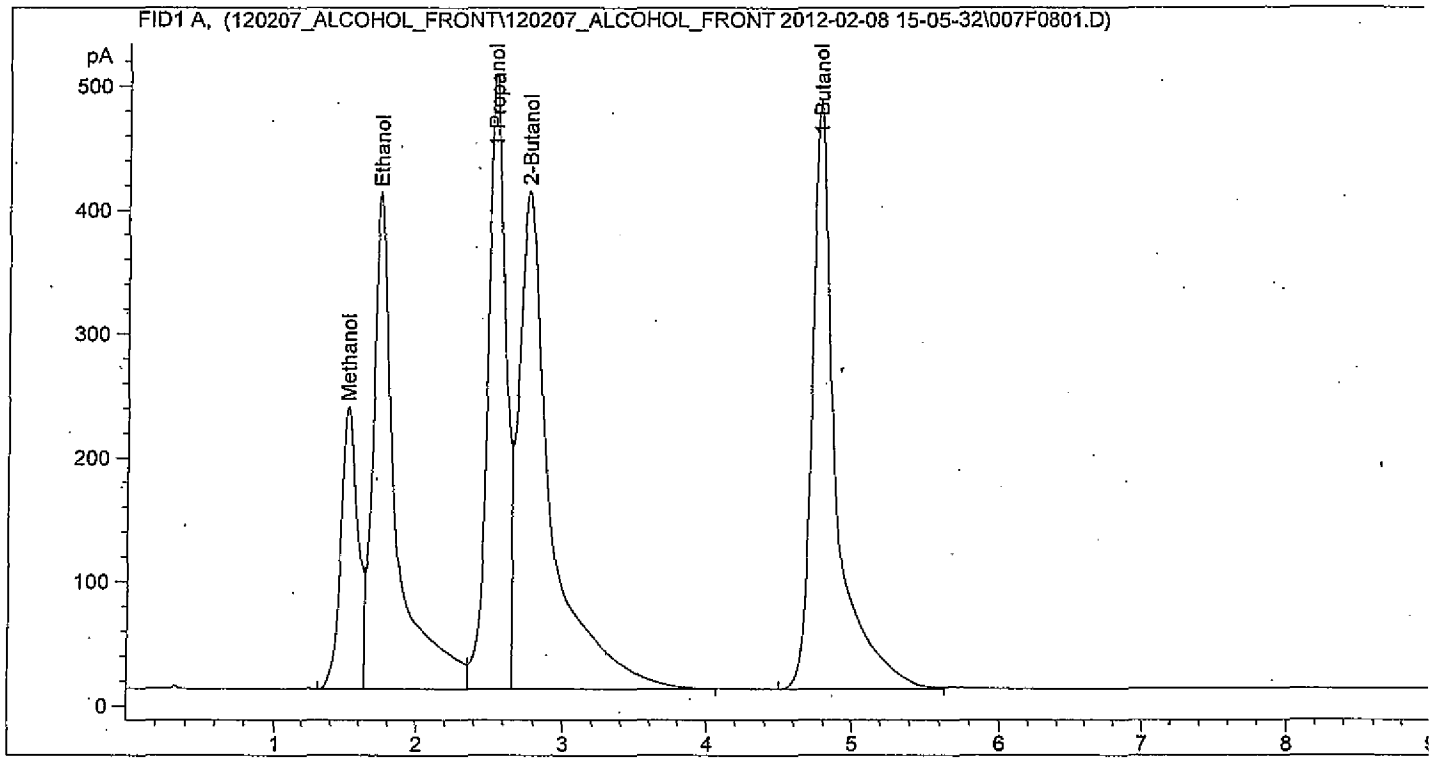
Acm

Sample Name: Cal 6

Acq. Operator	: ACM	Seq. Line	: 8
Acq. Instrument	: AG3-6890N	Location	: Vial 7
Injection Date	: 2/8/2012 4:45:11 PM	Inj	: 1
		Inj Volume	: 1 µl

Acq. Method : C:\CHEM32\1\DATA\120207_ALCOHOL_FRONT\120207_ALCOHOL_FRONT 2012-02-08 05-32\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120207.M
Last changed : 2/9/2012 7:58:30 AM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : ALCal6-111122-ACM



External Standard Report

Sorted By : Signal
Calib. Data Modified : Thursday, February 09, 2012 7:58:14 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
1.518	VV	1882.80688	2.67169e-1	503.02708		Methanol
1.743	VV	4582.42139	1.08749e-1	498.33167		Ethanol
2.537	VV	4236.63770	1.26449e-1	535.71705		1-Propanol

ok, checked w/ E

Sample Name: Cal 6

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.770	VV	6195.79688	8.06636e-2	499.77538		2-Butanol
4.784	BV	5446.19531	9.20650e-2	501.40379		1-Butanol
Totals :				2538.25497		

*** End of Report ***

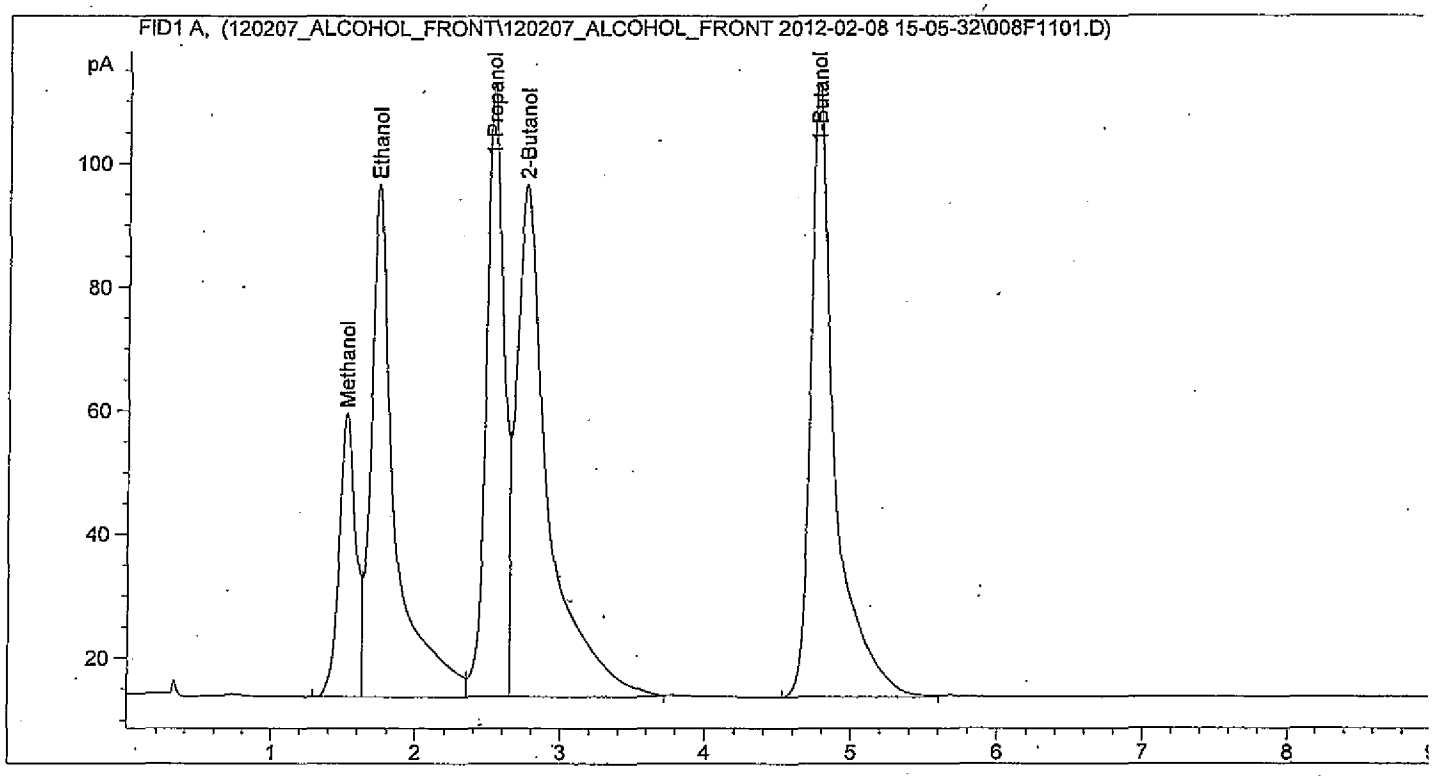
ACM

Sample Name: SCV

Acq. Operator	: ACM	Seq. Line	: 11
Acq. Instrument	: AG3-6890N	Location	: Vial 8
Injection Date	: 2/8/2012 5:26:41 PM	Inj	: 1
		Inj Volume	: 1 µl

Acq. Method : C:\CHEM32\1\DATA\120207_ALCOHOL_FRONT\120207_ALCOHOL_FRONT 2012-02-08 05-32\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120207.M
Last changed : 2/9/2012 8:16:45 AM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : ALSCV-111122-ACM



External Standard Report

Sorted By : Signal
Calib. Data Modified : Thursday, February 09, 2012 8:16:16 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	%D
1.520	VV	369.77991	2.71743e-1	100.48496		Methanol	0.485
1.744	VV	938.78253	1.07668e-1	101.07674		Ethanol	1.077
2.536	VV	835.64410	1.23201e-1	102.95213		1-Propanol	2.95

> pass

ok, checked w/ Excel

Sample Name: SCV

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%D
2.768	VV	1274.22742	8.04060e-2	102.45551		2-Butanol	2.46
4.779	BB	1153.26660	9.25144e-2	106.69371		1-Butanol	6.69

> pass

Totals : 513.66305

*** End of Report ***

all pass

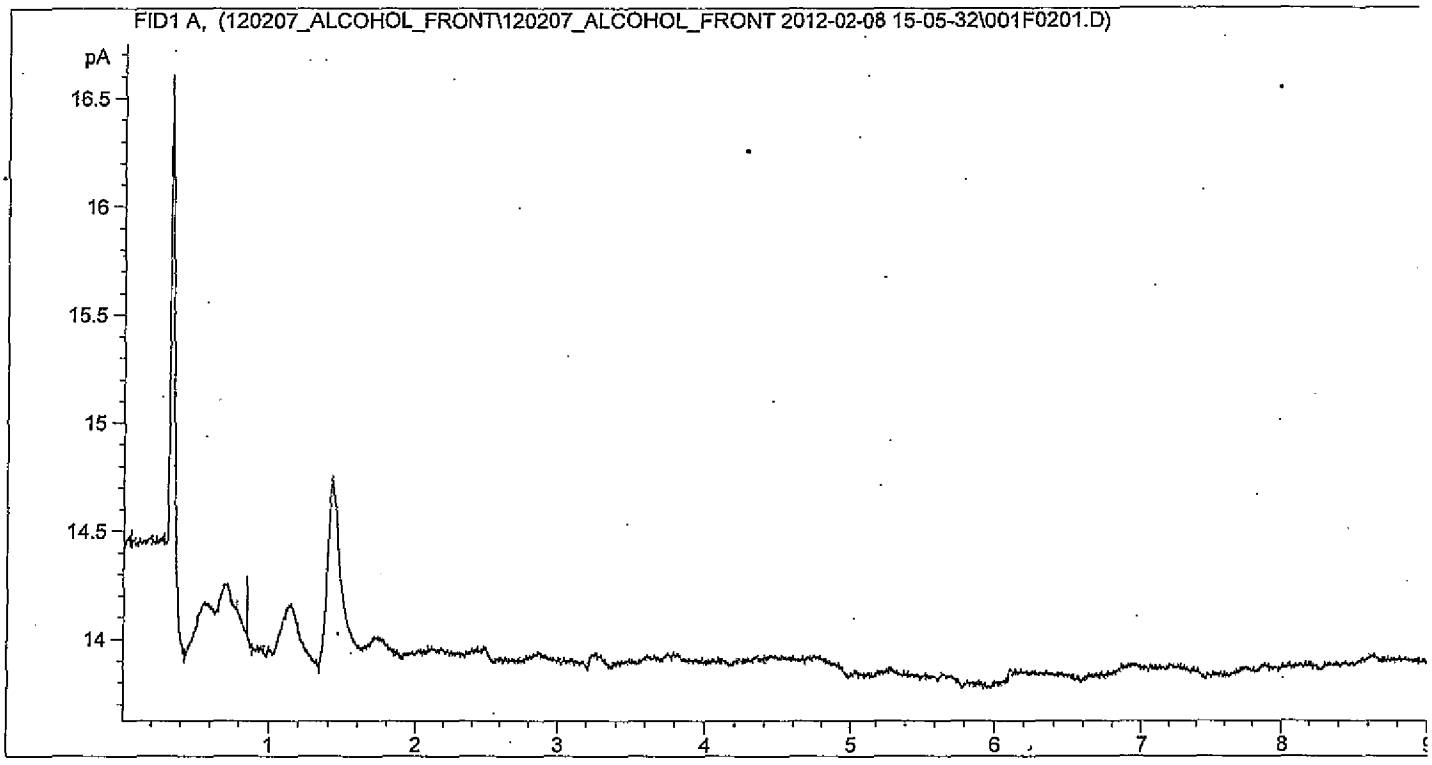
AL

Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 2/8/2012 3:22:19 PM

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

Acq. Method : C:\CHEM32\1\DATA\120207_ALCOHOL_FRONT\120207_ALCOHOL_FRONT 2012-02-08 05-32\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120207.M
Last changed : 2/9/2012 7:58:30 AM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : water



External Standard Report

Sorted By : Signal
Calib. Data Modified : Thursday, February 09, 2012 7:58:14 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
1.513		-	-	-		Methanol
1.738		-	-	-		Ethanol
2.528		-	-	-		1-Propanol

Sample Name: IBL1

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.760		-	-	-		2-Butanol
4.774		-	-	-		1-Butanol

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==========

Area Percent Report

==========

Sorted By : Signal
Calib. Data Modified : Thursday, February 09, 2012 7:58:14 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	1.513		0.0000	0.00000	0.00000	Methanol
2	1.738		0.0000	0.00000	0.00000	Ethanol
3	2.528		0.0000	0.00000	0.00000	1-Propanol
4	2.760		0.0000	0.00000	0.00000	2-Butanol
5	4.774		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

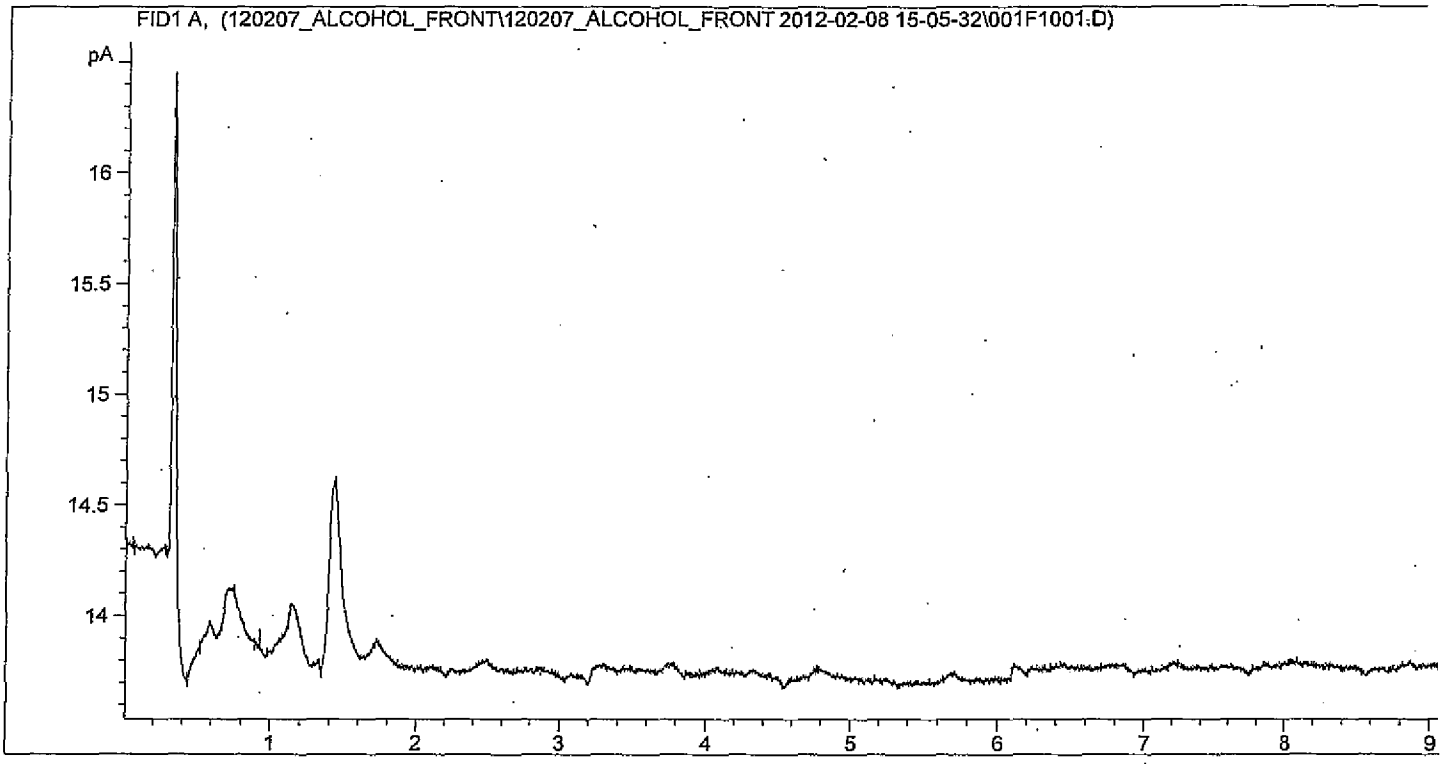
An

Sample Name: IBL2

Acq. Operator	: ACM	Seq. Line	: 10
Acq. Instrument	: AG3-6890N	Location	: Vial 1
Injection Date	: 2/8/2012 5:12:51 PM	Inj	: 1
		Inj Volume	: 1 µl

Acq. Method : C:\CHEM32\1\DATA\120207_ALCOHOL_FRONT\120207_ALCOHOL_FRONT 2012-02-08 05-32\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120207.M
Last changed : 2/9/2012 7:58:30 AM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : water



External Standard Report

Sorted By : Signal
Calib. Data Modified : Thursday, February 09, 2012 7:58:14 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
1.513		-	-	-		Methanol
1.738		-	-	-		Ethanol
2.528		-	-	-		1-Propanol

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.760		-	-	-		2-Butanol
4.774		-	-	-		1-Butanol

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

Area Percent Report

Sorted By : Signal
Calib. Data Modified : Thursday, February 09, 2012 7:58:14 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	1.513		0.0000	0.00000	0.00000	Methanol
2	1.738		0.0000	0.00000	0.00000	Ethanol
3	2.528		0.0000	0.00000	0.00000	1-Propanol
4	2.760		0.0000	0.00000	0.00000	2-Butanol
5	4.774		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

pass

Calibration Table

Alcohols

- ICAL run on 2-7-12
- This method copied from: ALC_QUANT_FRONT_120207.M.
- RTs adjusted to compensate for shift. An 2-16-12

Calib. Data Modified : 2/16/2012 8:27:21 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)

- Samples 1-32

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

RetTime [min]	Sig	Lvl	Amount [ug/mL]	Area	Amt/Area	Ref	Grp	Name
1.515	1	1	10.00000	38.89928	2.57074e-1			Methanol
		2	25.00000	93.87627	2.66308e-1			
		3	50.00000	186.46002	2.68154e-1			
		4	100.00000	351.84988	2.84212e-1			
		5	250.00000	913.00793	2.73820e-1			
		6	500.00000	1882.80688	2.65561e-1			
1.740	1	1	10.00000	94.51188	1.05807e-1			Ethanol
		2	25.00000	234.97745	1.06393e-1			
		3	50.00000	468.15240	1.06803e-1			
		4	100.00000	929.56964	1.07577e-1			
		5	250.00000	2336.44116	1.07000e-1			
		6	500.00000	4582.42139	1.09113e-1			
2.528	1	1	10.00000	85.75124	1.16616e-1			1-Propanol
		2	25.00000	203.56302	1.22812e-1			
		3	50.00000	413.87625	1.20809e-1			
		4	100.00000	765.16553	1.30691e-1			
		5	250.00000	1987.11267	1.25811e-1			
		6	500.00000	4236.63770	1.18018e-1			
2.761	1	1	10.00000	124.97431	8.00164e-2			2-Butanol
		2	25.00000	314.13422	7.95838e-2			
		3	50.00000	638.17633	7.83483e-2			
		4	100.00000	1228.30212	8.14132e-2			

RetTime [min]	Sig	Lvl	Amount [ug/mL]	Area	Amt/Area	Ref	Grp	Name
		5	250.00000	3111.10181	8.03574e-2			
		6	500.00000	6195.79688	8.06999e-2			
4.775	1	1	10.00000	111.45800	8.97199e-2			1-Butanol
		2	25.00000	272.97894	9.15822e-2			
		3	50.00000	549.46362	9.09978e-2			
		4	100.00000	1060.74060	9.42738e-2			
		5	250.00000	2685.46436	9.30938e-2			
		6	500.00000	5446.19531	9.18072e-2			

More compound-specific settings:

Compound: 2-Butanol
Time Window : From 2.606 min To 2.807 min

Peak Sum Table

No Entries in table

Am

Method Information

Method: C:\CHEM32\1\METHODS\ALCOHOLS_BACK.M
Modified: 1/27/2012 at 3:30:25 PM

FID method for Alcohol analysis back column

Instrument Method

Method Audit Trail

Back

Operator :
Date : 12/19/1995 12:05:58 PM
Change Info:

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/
Change Info:

Methods

Operator :
Date : 10/26/
Change Info: This r /26/2011 8:37:54 AM and based on
method D_TCD.M

Back

Operator :
Date : 10/26/
Change Info: Alcoho d_tcd template

Operator :
Date : 10/26/
Change Info: Adjuste

Acn

Operator :
Date : 10/26/2
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 :

Modified on: 1/27/2012 at 3:30:25 PM
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

ACM

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: ""

Modified on: 1/27/2012 at 3:30:25 PM
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: ""

ACM

Operator : ACM
Date : 1/27/2012 10:56:59 AM
Change Info: Method saved. User comment: ""

Operator : ACM
Date : 1/27/2012 3:30:25 PM
Change Info: Method saved. User comment: ""

Run Time Checklist

Pre-Run Cmd/Macro: off

Modified on: 1/27/2012 at 3:30:25 PM

Data Acquisition: on

Standard Data Analysis: on

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 MPC Autosampler

Injection Location: Back

A 2-4-12

==========

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

Modified on: 1/27/2012 at 3:30:23 PM

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
Flame: On
Electrometer: On
Lit offset: 2.0

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
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

Am

The Data Analysis Parameters of the used Method are :

Calibration Table

Alcohols

Calib. Data Modified : 2/8/2012 3:58:12 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,

-ICal for Back column. AL 2-8-12

-Used for all Samples on back col AL 2-15-12

RetTime [min]	Sig	Lvl	Amount [ug/mL]	Area	Amt/Area	Ref	Grp	Name
2.217	2	1	10.00000	27.44858	3.64318e-1			Methanol
		2	25.00000	66.79855	3.74260e-1			
		3	50.00000	131.85947	3.79192e-1			
		4	100.00000	265.83853	3.76168e-1			
		5	250.00000	682.13995	3.66494e-1			
		6	500.00000	1306.01477	3.82844e-1			
2.423	2	1	10.00000	50.36656	1.98544e-1			Ethanol
		2	25.00000	124.34087	2.01060e-1			
		3	50.00000	220.52719	2.26729e-1			
		4	100.00000	480.79263	2.07990e-1			
		5	250.00000	1199.62500	2.08398e-1			
		6	500.00000	2393.84399	2.08869e-1			
3.079	2	1	10.00000	57.32992	1.74429e-1			1-Propanol
		2	25.00000	141.68523	1.76447e-1			
		3	50.00000	280.43372	1.78295e-1			
		4	100.00000	557.77588	1.79283e-1			
		5	250.00000	1403.36816	1.78143e-1			
		6	500.00000	2778.73364	1.79938e-1			
3.398	2	1	10.00000	59.74878	1.67367e-1			2-Butanol
		2	25.00000	144.68230	1.72792e-1			
		3	50.00000	284.38565	1.75818e-1			
		4	100.00000	563.10858	1.77586e-1			

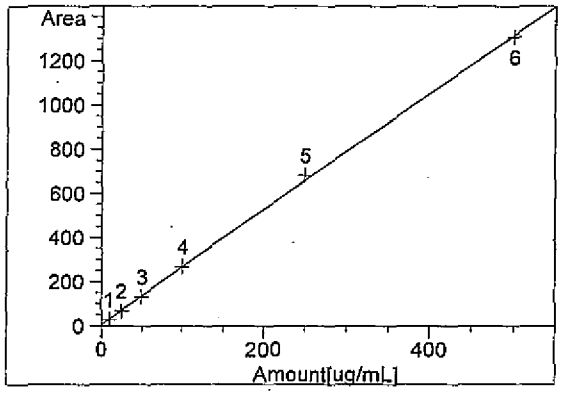
DIM0209516 DIM0209622

RetTime [min]	Lvl Sig		Amount [ug/mL]	Area	Amt/Area	Ref	Grp	Name
		5	250.00000	1414.84827	1.76697e-1			
		6	500.00000	2815.14697	1.77611e-1			
4.397	2	1	10.00000	62.57820	1.59800e-1			1-Butanol
		2	25.00000	153.98088	1.62358e-1			
		3	50.00000	300.25687	1.66524e-1			
		4	100.00000	602.23804	1.66047e-1			
		5	250.00000	1514.18140	1.65106e-1			
		6	500.00000	3006.44849	1.66309e-1			

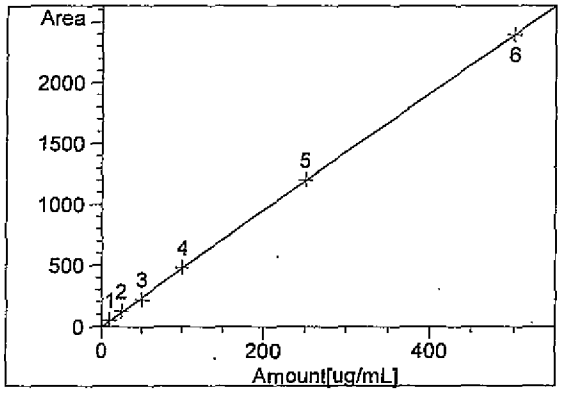
Peak Sum Table

No Entries in table

Calibration Curves

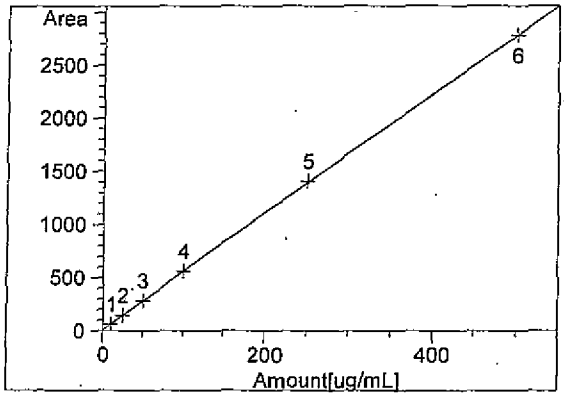


Methanol at exp. RT: 2.217
FID2 B,
Correlation: 0.99975
Residual Std. Dev.: 12.40575
Formula: y = mx + b
m: 2.62293
b: 4.61059
x: Amount
y: Area



Ethanol at exp. RT: 2.423
FID2 B,
Correlation: 0.99995
Residual Std. Dev.: 9.73531
Formula: y = mx + b
m: 4.79416
b: -2.17465
x: Amount
y: Area

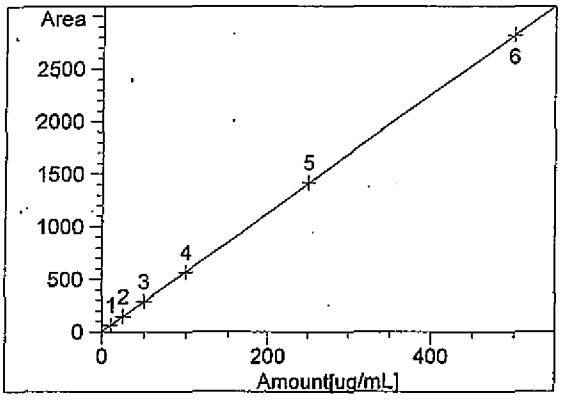
ok
checked w/ Excel



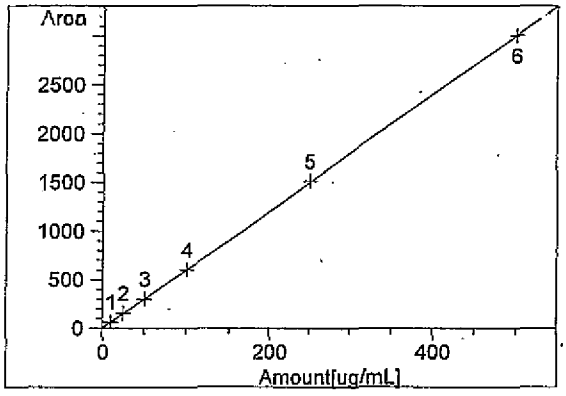
1-Propanol at exp. RT: 3.079
FID2 B,
Correlation: 0.99999
Residual Std. Dev.: 5.65438
Formula: y = mx + b
m: 5.55924
b: 3.57330
x: Amount
y: Area

ok
checked w/ Excel

ACM



2-Butanol at exp. RT: 3.398
FID2 B,
Correlation: 1.00000
Residual Std. Dev.: 2.94018
Formula: y = mx + b
m: 5.62674
b: 3.48598
x: Amount
y: Area



1-Butanol at exp. RT: 4.397
FID2 B,
Correlation: 0.99999
Residual Std. Dev.: 4.70450
Formula: y = mx + b
m: 6.01392
b: 2.77818
x: Amount
y: Area

Am

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
2-8-12

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

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

A 2-8-12

Not closed

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

ACM

Sample Name: Std 1

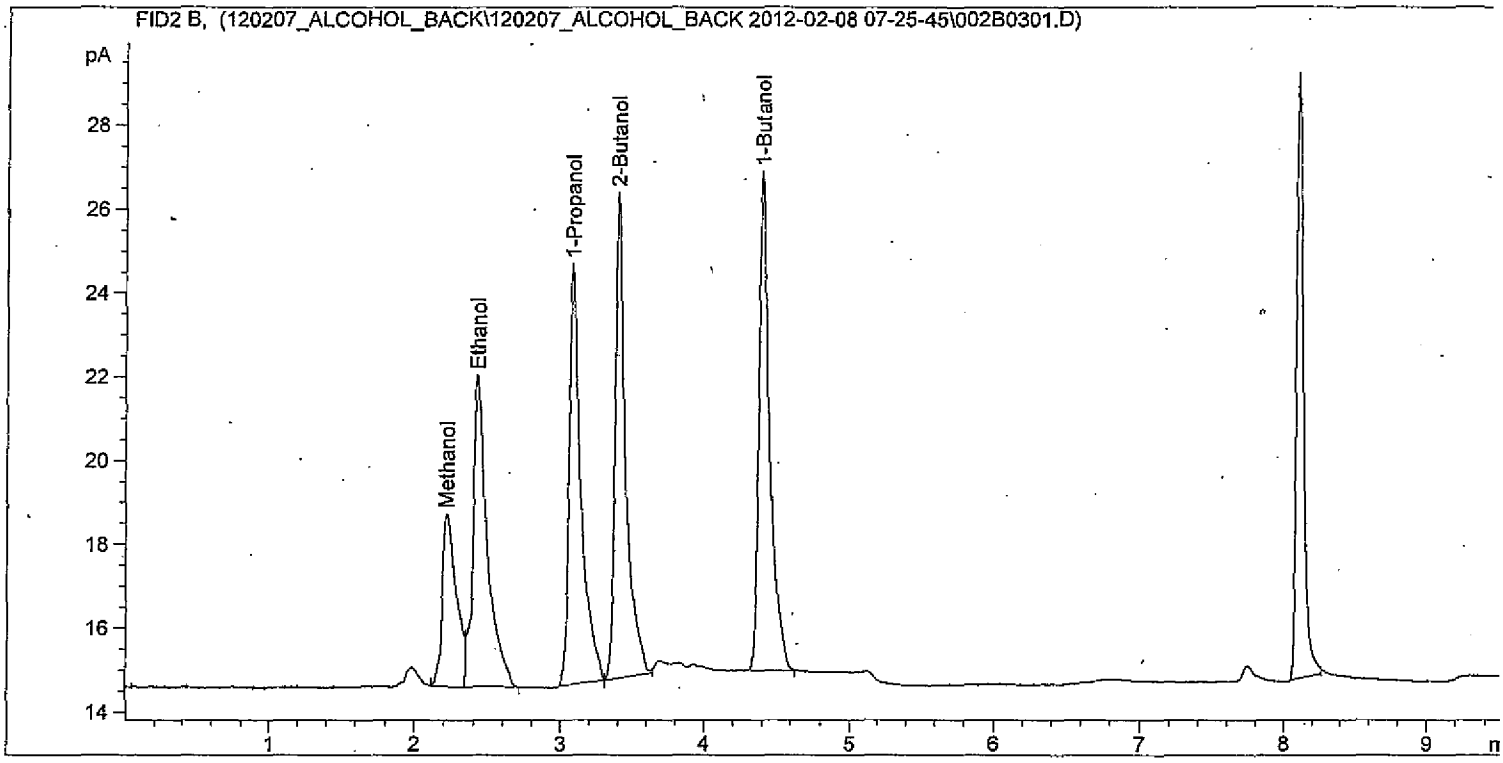
==========

Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 2/8/2012 7:56:15 AM

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

Acq. Method : C:\CHEM32\1\DATA\120207_ALCOHOL_BACK\120207_ALCOHOL_BACK 2012-02-08 07-25-45\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120207.M
Last changed : 2/8/2012 3:58:17 PM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : ALCall-111122-ACM



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External Standard Report

==========

Sorted By : Signal
Calib. Data Modified : 2/8/2012 3:58:12 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	27.44858	3.17214e-1	8.70706		Methanol
2.423	VB	50.36656	2.17593e-1	10.95941		Ethanol
3.080	BV	57.32992	1.68669e-1	9.66978		1-Propanol

ok checked w/ Excel

ımple Name: Cal 1

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
3.399	VB	59.74878	1.67354e-1	9.99918		2-Butanol
4.399	BB	62.57820	1.58899e-1	9.94360		1-Butanol
Totals :				49.27904		

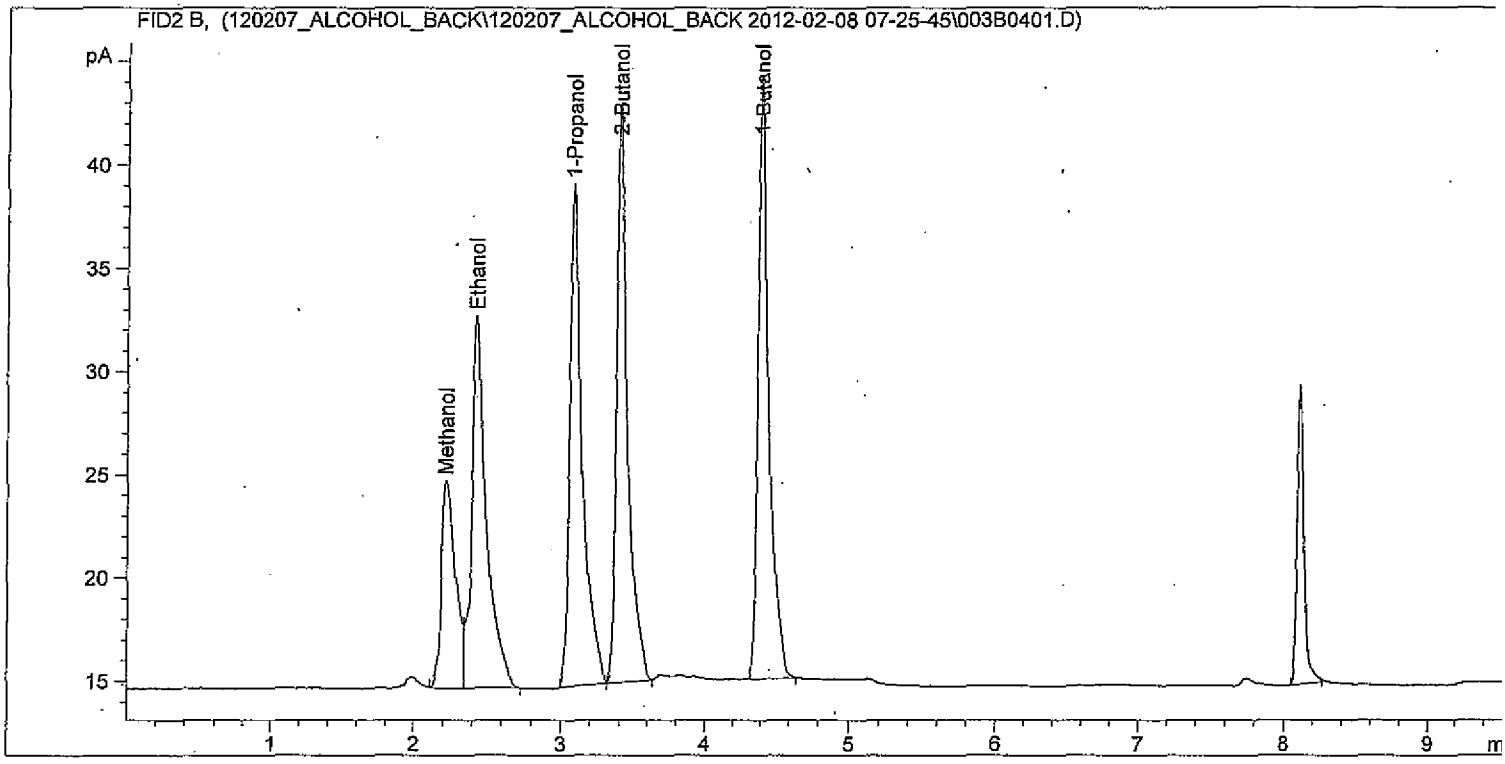
*** End of Report ***

ample Name: Cal 2

Acq. Operator	: ACM	Seq. Line :	4
Acq. Instrument	: AG3-6890N	Location :	Vial 3
Injection Date	: 2/8/2012 8:09:58 AM	Inj :	1
		Inj Volume :	0.8 µl

Acq. Method : C:\CHEM32\1\DATA\120207_ALCOHOL_BACK\120207_ALCOHOL_BACK 2012-02-08 07-25-45\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120207.M
Last changed : 2/8/2012 3:58:17 PM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : ALCal2-111122-ACM



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/8/2012 3:58:12 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
2.217	VV	66.79855	3.54939e-1	23.70938		Methanol
2.423	VB	124.34087	2.12235e-1	26.38948		Ethanol
3.080	BV	141.68523	1.75344e-1	24.84368		1-Propanol

ok checked w/ Excel

ample Name: Cal 2

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
3.399	VV	144.68230	1.73441e-1	25.09379		2-Butanol
4.398	BB	153.98088	1.63281e-1	25.14212		1-Butanol

Totals : 125.17846

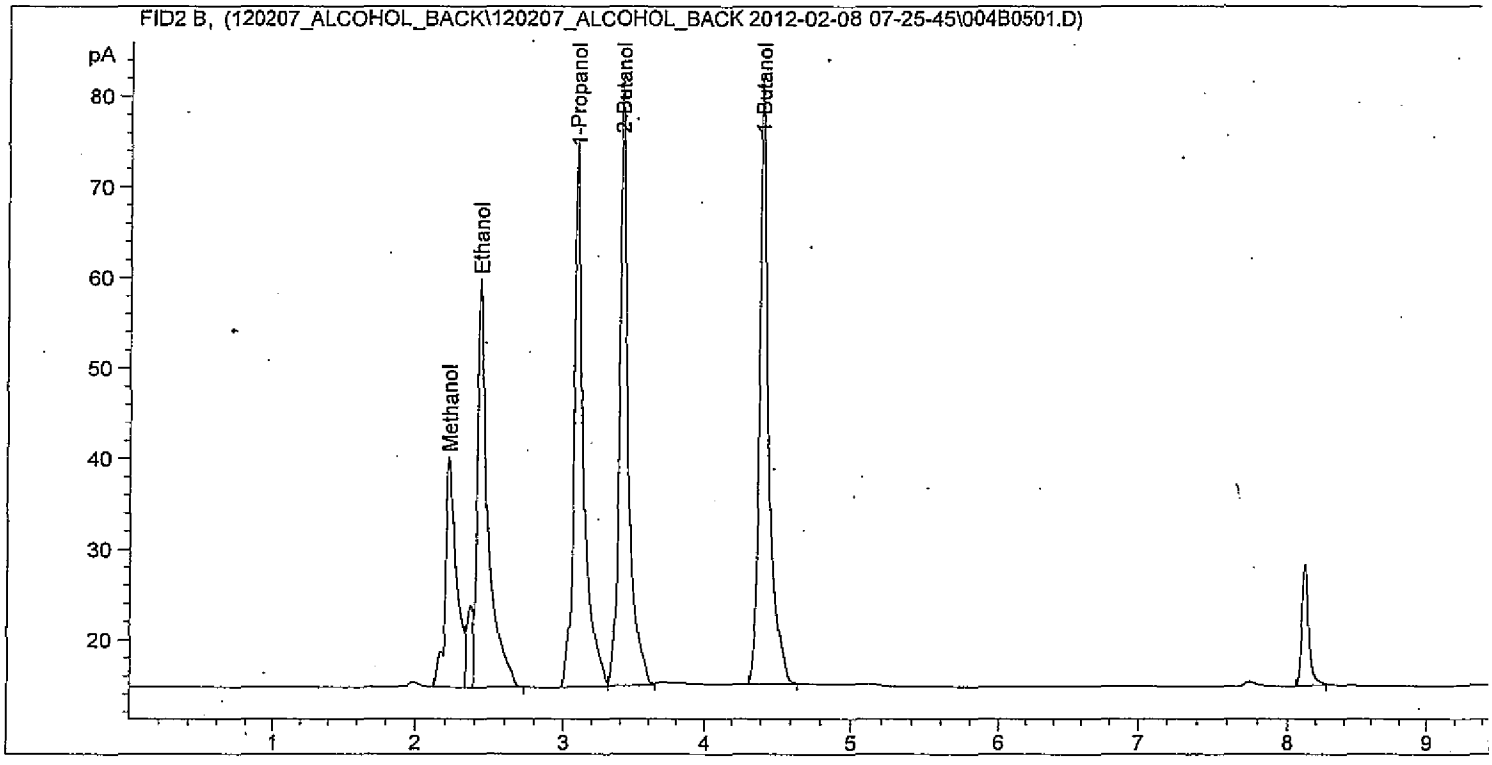
*** End of Report ***

Sample Name: Cal 3

Acq. Operator	: ACM	Seq. Line :	5
Acq. Instrument	: AG3-6890N	Location :	Vial 4
Injection Date	: 2/8/2012 8:23:42 AM	Inj :	1
		Inj Volume :	0.8 µl

Acq. Method : C:\CHEM32\1\DATA\120207_ALCOHOL_BACK\120207_ALCOHOL_BACK 2012-02-08 07-25-45\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120207.M
Last changed : 2/8/2012 3:58:17 PM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : ALCal3-111122-ACM



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/8/2012 3:58:12 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	BV	131.85947	3.67923e-1	48.51408		Methanol
2.429	VB	220.52719	2.10644e-1	46.45269		Ethanol
3.086	BV	280.43372	1.77589e-1	49.80187		1-Propanol

ok checked w/ Excel

ample Name: Cal 3

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
3.405	VB	284.38565	1.75544e-1	49.92225		2-Butanol
4.402	BB	300.25687	1.64742e-1	49.46503		1-Butanol

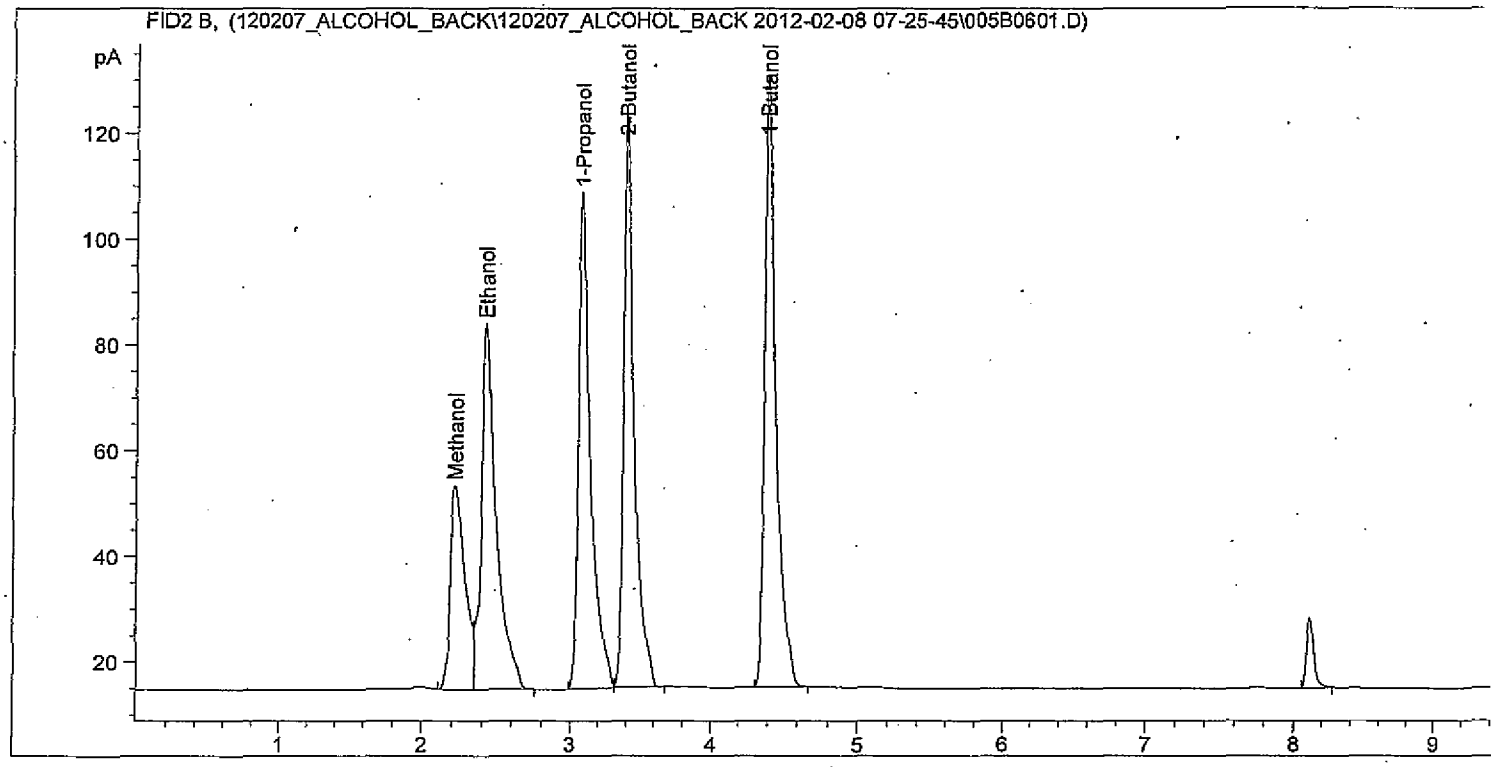
Totals : 244.15592

*** End of Report ***

Am

Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 2/8/2012 8:37:25 AM
Seq. Line : 6
Location : Vial 5
Inj : 1
Inj Volume : 0.8 µl
Acq. Method : C:\CHEM32\1\DATA\120207_ALCOHOL_BACK\120207_ALCOHOL_BACK 2012-02-08 07-25-45\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120207.M
Last changed : 2/8/2012 3:58:17 PM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : ALCal4-111122-ACM



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/8/2012 3:58:12 PM
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
2.217	VV	265.83853	3.74641e-1	99.59407		Methanol
2.423	VB	480.79263	2.09530e-1	100.74065		Ethanol
3.079	BV	557.77588	1.78728e-1	99.69040		1-Propanol

ok, checked w/Ex

ample Name: Cal 4

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
3.398	VB	563.10858	1.76622e-1	99.45764		2-Butanol
4.397	BB	602.23804	1.65514e-1	99.67873		1-Butanol

Totals : 499.16150

*** End of Report ***

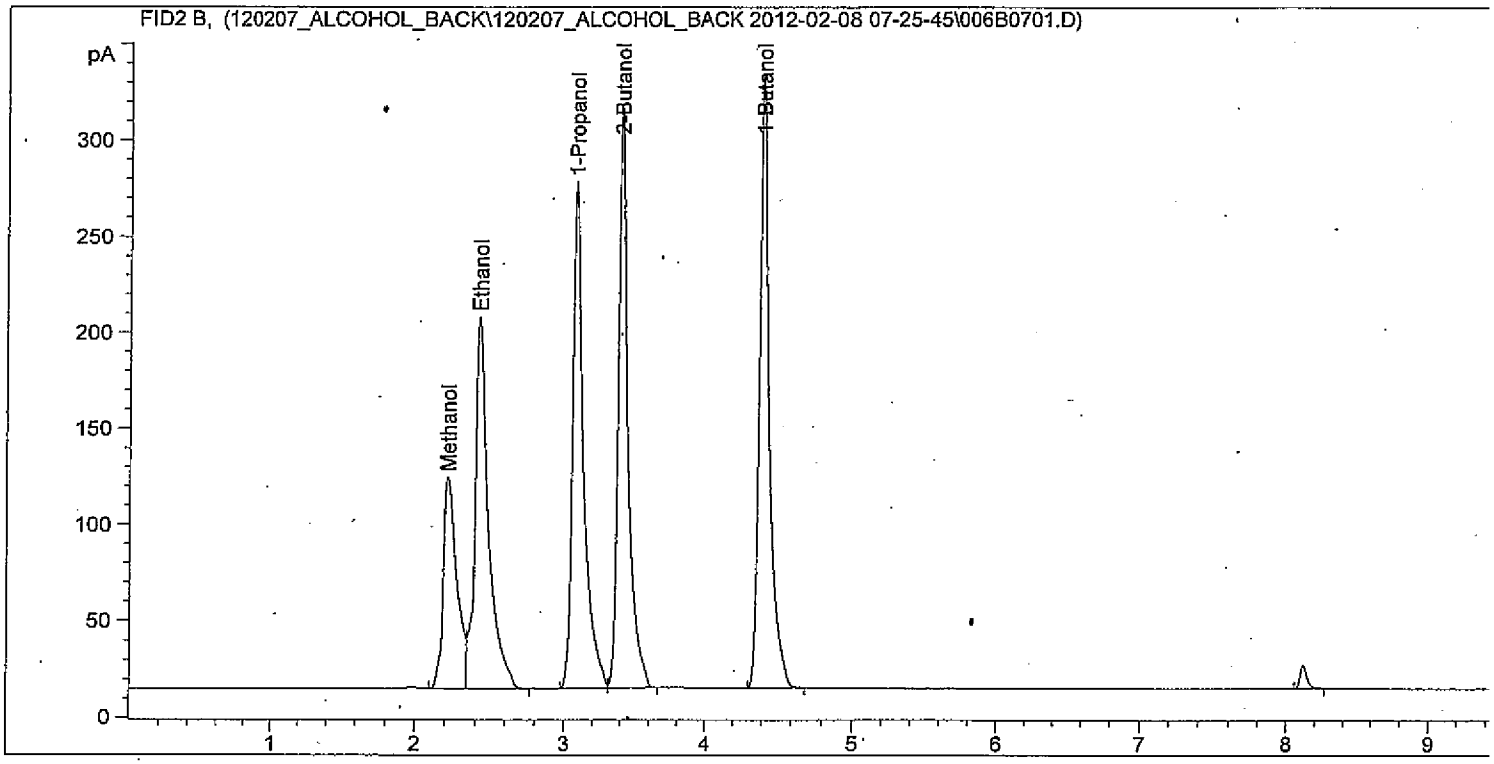
ample Name: Cal 5

Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 2/8/2012 8:51:09 AM

Seq. Line : 7
Location : Vial 6
Inj : 1
Inj Volume : 0.8 µl

Acq. Method : C:\CHEM32\1\DATA\120207_ALCOHOL_BACK\120207_ALCOHOL_BACK 2012-02-08 07-25-45\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120207.M
Last changed : 2/8/2012 3:58:17 PM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : ALCal5-111122-ACM



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/8/2012 3:58:12 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
2.216	VV	682.13995	3.78677e-1	258.31046		Methanol
2.423	VB	1199.62500	2.08965e-1	250.67967		Ethanol
3.079	BV	1403.36816	1.79423e-1	251.79621		1-Propanol

ok, checked w/ Excel

mple Name: Cal 5

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
3.399	VB	1414.84827	1.77285e-1	250.83113		2-Butanol
4.398	BB	1514.18140	1.65976e-1	251.31750		1-Butanol

Totals : 1262.93497

*** End of Report ***

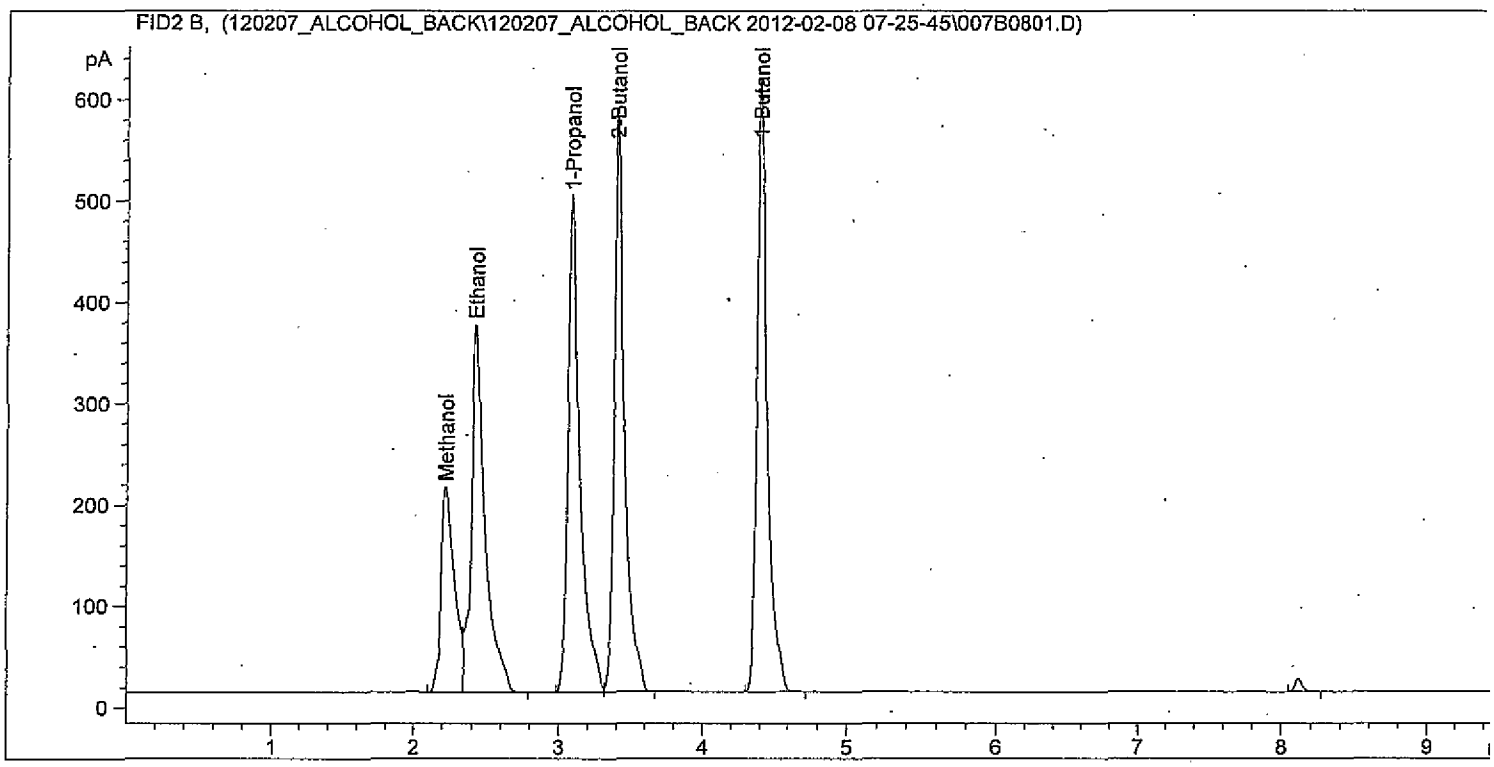
Am

Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 2/8/2012 9:04:53 AM

Seq. Line : 8
Location : Vial 7
Inj : 1
Inj Volume : 0.8 µl

Acq. Method : C:\CHEM32\1\DATA\120207_ALCOHOL_BACK\120207_ALCOHOL_BACK 2012-02-08 07-25-45\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120207.M
Last changed : 2/8/2012 3:58:17 PM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : ALCal6-111122-ACM



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/8/2012 3:58:12 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
2.217	VV	1306.01477	3.79908e-1	496.16494		Methanol
2.423	VB	2393.84399	2.08776e-1	499.77811		Ethanol
3.081	BV	2778.73364	1.79649e-1	499.19805		1-Propanol

ok checked w/ Excel

mple Name: Cal 6

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
3.400	VB	2815.14697	1.77503e-1	499.69601		2-Butanol
4.400	BB	3006.44849	1.66127e-1	499.45302		1-Butanol
Totals :				2494.29012		

*** End of Report ***

Ah

ıple Name: SCV

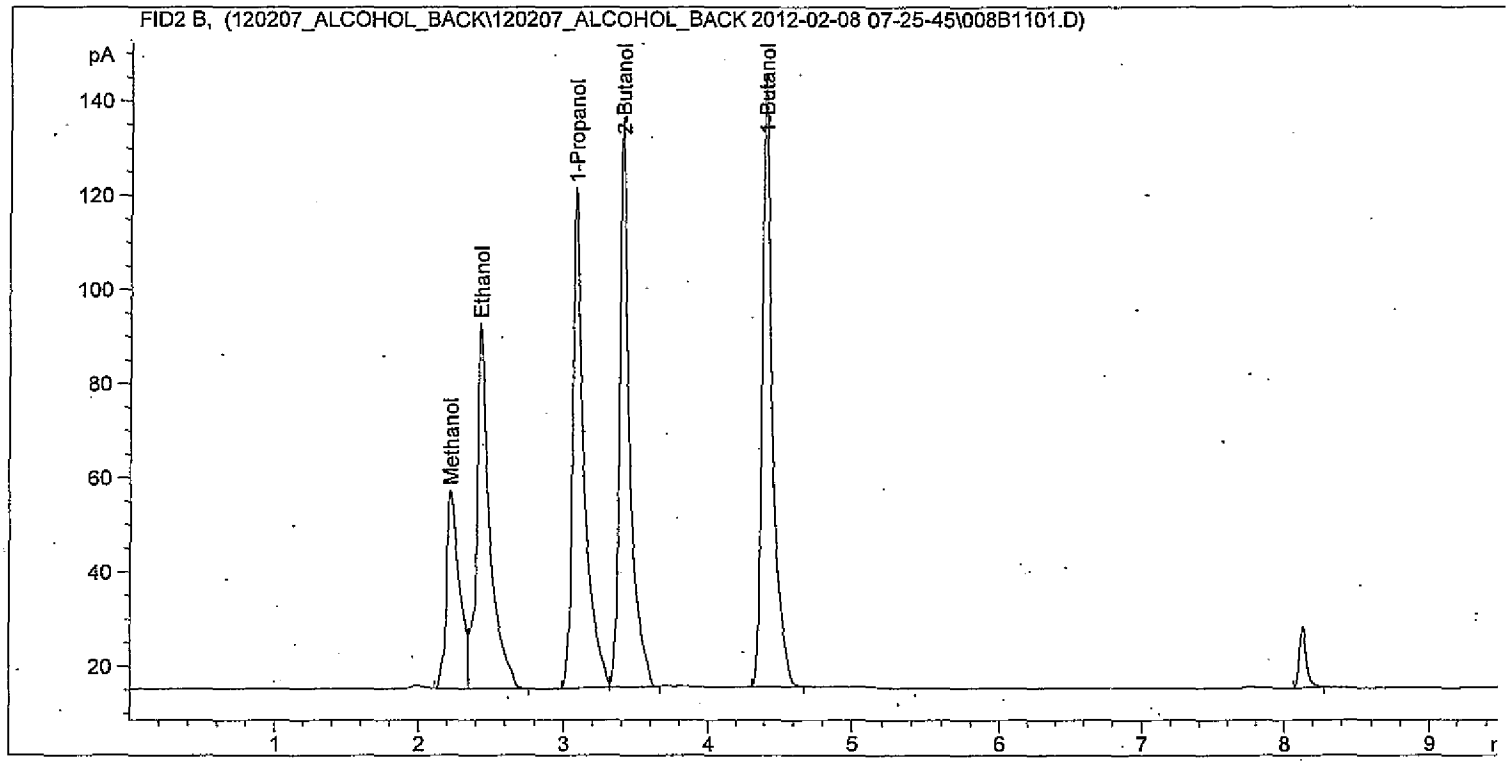
==========

Acq: Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 2/8/2012 9:46:03 AM

Seq. Line : 11
Location : Vial 8
Inj : 1
Inj Volume : 0.8 µl

Acq. Method : C:\CHEM32\1\DATA\120207_ALCOHOL_BACK\120207_ALCOHOL_BACK 2012-02-08 07-25-45\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120207.M
Last changed : 2/8/2012 3:58:17 PM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : ALSCV-111122-ACM



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 2/8/2012 3:58:12 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
2.218	VV	255.85493	3.74383e-1	95.78779		Methanol	4.21
2.425	VB	486.77585	2.09519e-1	101.98867		Ethanol	1.99
3.082	BV	571.14246	1.78755e-1	102.09479		1-Propanol	2.09

> pass

ok, checked w/ Excel

mple Name: SCV

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%D
3.401	VB	576.15894	1.76647e-1	101.77699		2-Butanol	1.78
4.400	BB	635.26672	1.65554e-1	105.17077		1-Butanol	5.17
Totals :				506.81901			

> pass

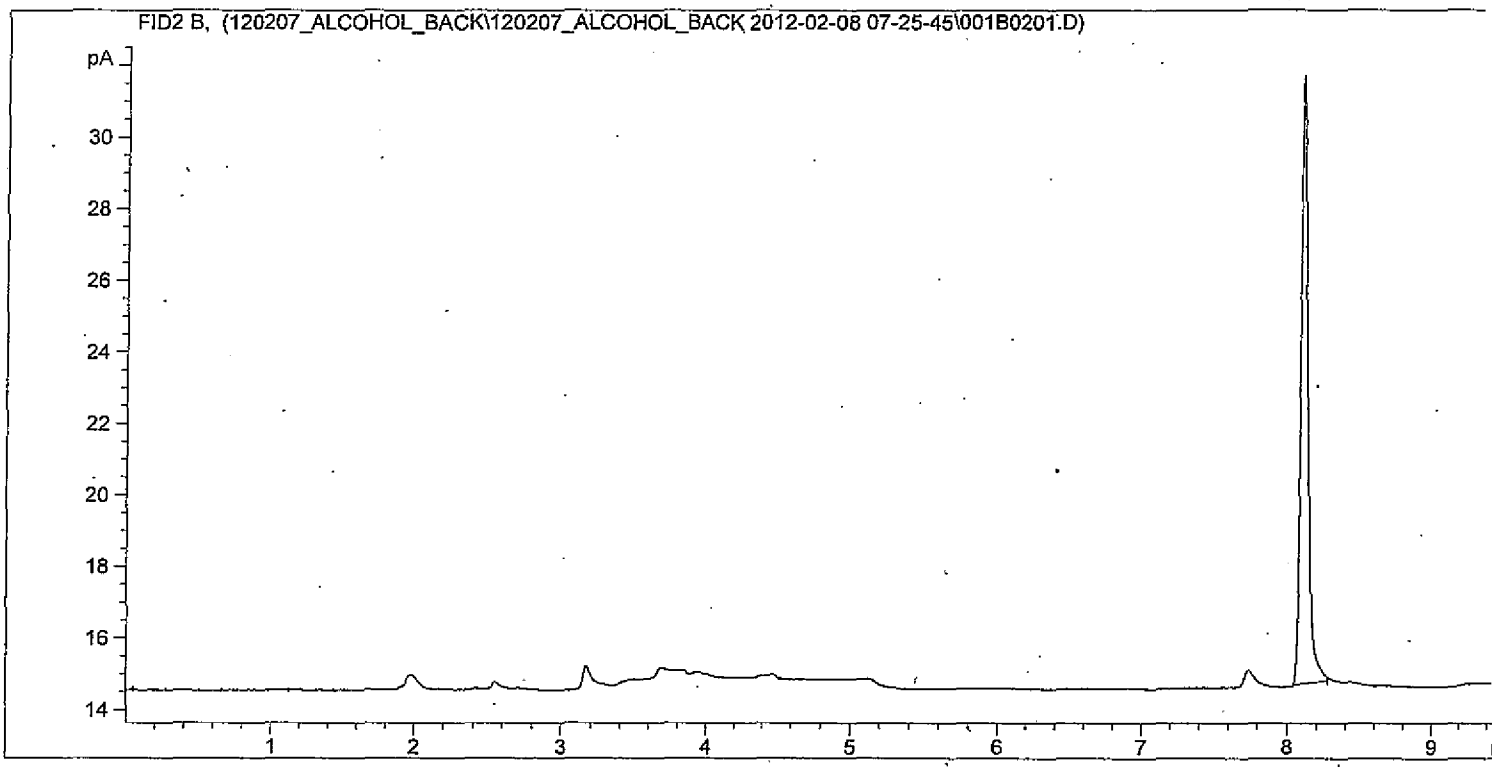
*** End of Report ***

— all pass

Acm

Acq. Operator : ACM
Seq. Line : 2
Acq. Instrument : AG3-6890N
Location : Vial 1
Injection Date : 2/8/2012 7:42:31 AM
Inj : 1
Inj Volume : 0.8 µl
Acq. Method : C:\CHEM32\1\DATA\120207_ALCOHOL_BACK\120207_ALCOHOL_BACK 2012-02-08 07-25-45\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120207.M
Last changed : 2/8/2012 3:58:17 PM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : water



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/8/2012 3:58:12 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		-	-	-		Methanol
2.423		-	-	-		Ethanol
3.079		-	-	-		1-Propanol

DIM0209516 DIM0209642

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
3.398		-	-	-		2-Butanol
4.397		-	-	-		1-Butanol

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

Area Percent Report

Sorted By : Signal
Calib. Data Modified : 2/8/2012 3:58:12 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	2.217		0.0000	0.00000	0.00000	Methanol
2	2.423		0.0000	0.00000	0.00000	Ethanol
3	3.079		0.0000	0.00000	0.00000	1-Propanol
4	3.398		0.0000	0.00000	0.00000	2-Butanol
5	4.397		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

Am

ample Name: 1BL2

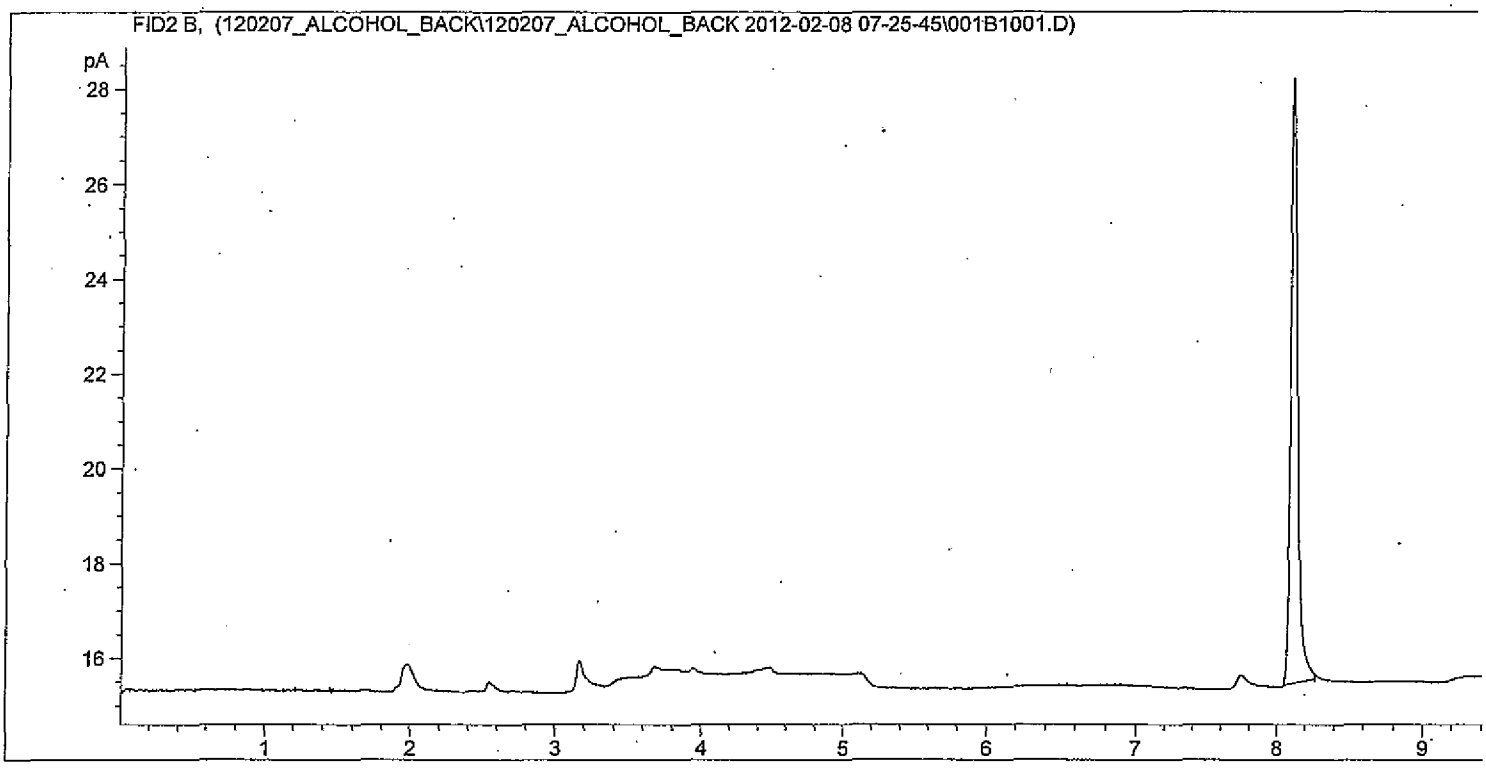
==========

Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 2/8/2012 9:32:20 AM

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

Acq. Method : C:\CHEM32\1\DATA\120207_ALCOHOL_BACK\120207_ALCOHOL_BACK 2012-02-08 07-25 45\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120207.M
Last changed : 2/8/2012 3:58:17 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 : 2/8/2012 3:58:12 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
2.217		-	-	-		Methanol
2.423		-	-	-		Ethanol
3.079		-	-	-		1-Propanol

mple Name: IBL2

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
3.398		-	-	-		2-Butanol
4.397		-	-	-		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 : 2/8/2012 3:58:12 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	2.217		0.0000	0.00000	0.00000	Methanol
2	2.423		0.0000	0.00000	0.00000	Ethanol
3	3.079		0.0000	0.00000	0.00000	1-Propanol
4	3.398		0.0000	0.00000	0.00000	2-Butanol
5	4.397		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

Calibration Table

Alcohols

Calib. Data Modified : 2/15/2012 3:48:43 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

- ICAL run on 2-7-12
- copied from: ALC_QUANT_BACK_120207.M
- RTs adjusted to compensate for slight shift

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,

- Samples 1-32

An 2-16-12

RetTime [min]	Lvl Sig		Amount [ug/mL]	Area	Amt/Area	Ref	Grp	Name
2.217	2	1	10.00000	27.44858	3.64318e-1			Methanol
		2	25.00000	66.79855	3.74260e-1			
		3	50.00000	131.85947	3.79192e-1			
		4	100.00000	265.83853	3.76168e-1			
		5	250.00000	682.13995	3.66494e-1			
		6	500.00000	1306.01477	3.82844e-1			
2.425	2	1	10.00000	50.36656	1.98544e-1			Ethanol
		2	25.00000	124.34087	2.01060e-1			
		3	50.00000	220.52719	2.26729e-1			
		4	100.00000	480.79263	2.07990e-1			
		5	250.00000	1199.62500	2.08398e-1			
		6	500.00000	2393.84399	2.08869e-1			
3.079	2	1	10.00000	57.32992	1.74429e-1			1-Propanol
		2	25.00000	141.68523	1.76447e-1			
		3	50.00000	280.43372	1.78295e-1			
		4	100.00000	557.77588	1.79283e-1			
		5	250.00000	1403.36816	1.78143e-1			
		6	500.00000	2778.73364	1.79938e-1			
3.401	2	1	10.00000	59.74878	1.67367e-1			2-Butanol
		2	25.00000	144.68230	1.72792e-1			
		3	50.00000	284.38565	1.75818e-1			
		4	100.00000	563.10858	1.77586e-1			

Method C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120213.M

RetTime [min]	Sig	Lvl	Amount [ug/mL]	Area	Amt/Area	Ref	Grp	Name
		5	250.00000	1414.84827	1.76697e-1			
		6	500.00000	2815.14697	1.77611e-1			
4.399	2	1	10.00000	62.57820	1.59800e-1			1-Butanol
		2	25.00000	153.98088	1.62358e-1			
		3	50.00000	300.25687	1.66524e-1			
		4	100.00000	602.23804	1.66047e-1			
		5	250.00000	1514.18140	1.65106e-1			
		6	500.00000	3006.44849	1.66309e-1			

Peak Sum Table

No Entries in table

ACM

Case File Contents

Alcohols

Alcohols by EPA 8015D

WO 1202004

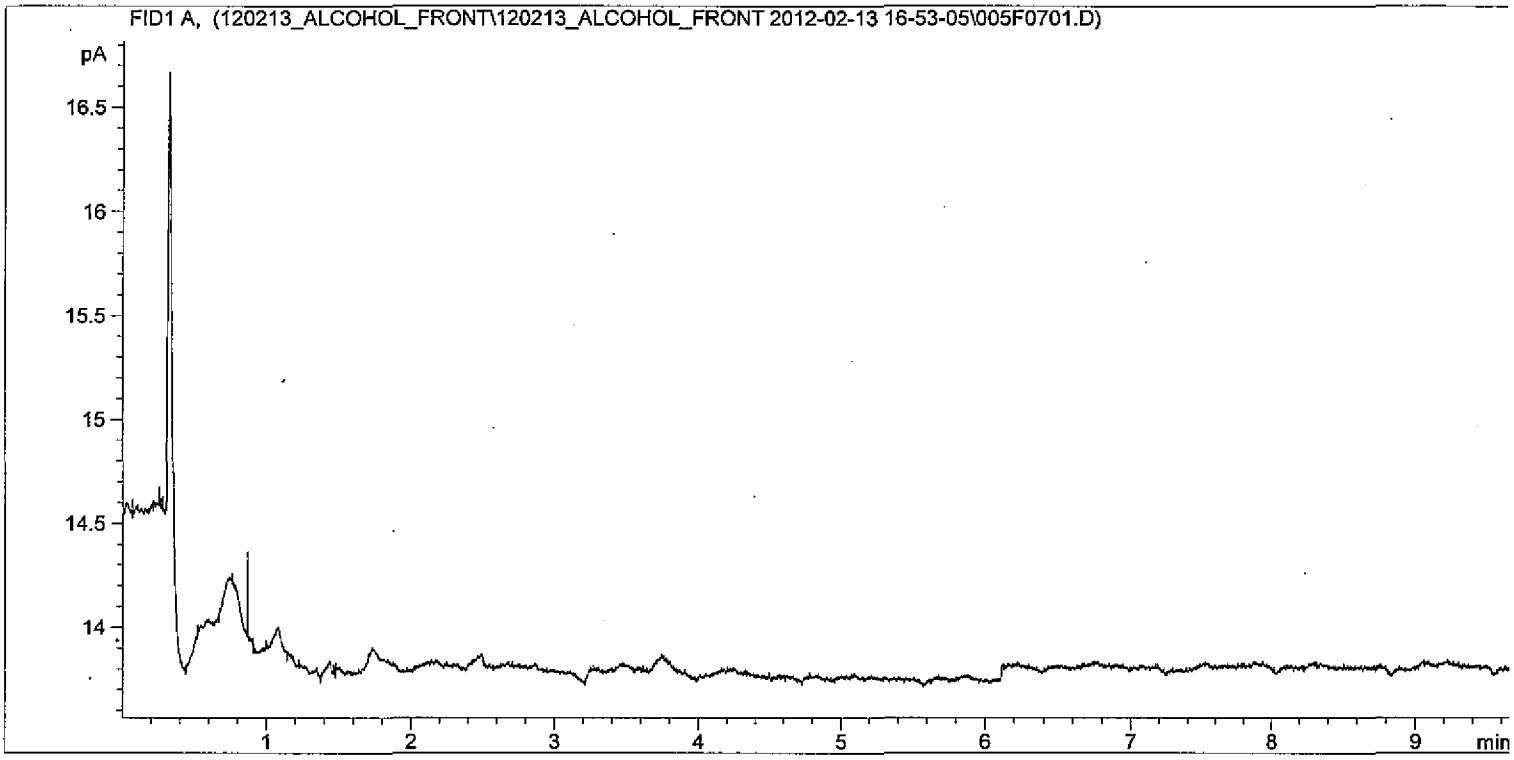
Dimock Residential Groundwater

DAS R33907

Sample Data

Data File C:\CHEM32\...3_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\005F0701.D
Sample Name: 1202004-01

Acq. Operator	: ACM	Seq. Line :	7
Acq. Instrument	: AG3-6890N	Location :	Vial 5
Injection Date	: 2/13/2012 6:19:10 PM	Inj :	1
		Inj Volume :	1 µl
Acq. Method	: C:\CHEM32\1\DATA\120213_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\ALCOHOLS_FRONT.M		
Last changed	: 1/31/2012 7:43:47 AM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120213.M		
Last changed	: 2/16/2012 8:27:30 AM by ACM		
Method Info	: FID method for Alcohol analysis		



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/16/2012 8:27:21 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Aem

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.515		-	-	-		Methanol
1.740		-	-	-		Ethanol
2.528		-	-	-		1-Propanol
2.761		-	-	-		2-Butanol
4.775		-	-	-		1-Butanol

N/D

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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

Area Percent Report

==========

Sorted By : Signal
Calib. Data Modified : 2/16/2012 8:27:21 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	1.515		0.0000	0.00000	0.00000	Methanol
2	1.740		0.0000	0.00000	0.00000	Ethanol
3	2.528		0.0000	0.00000	0.00000	1-Propanol
4	2.761		0.0000	0.00000	0.00000	2-Butanol
5	4.775		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==========

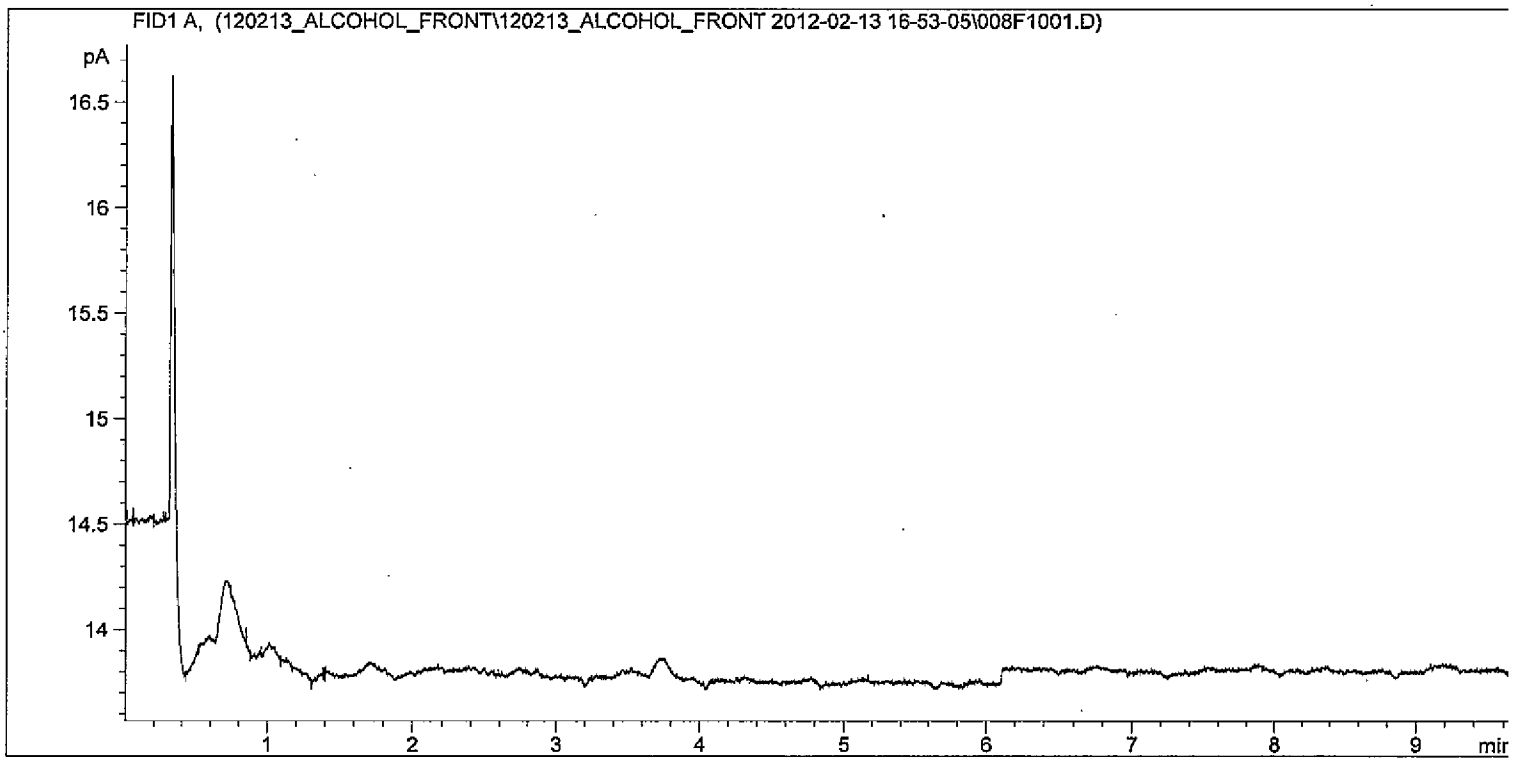
*** End of Report ***

Am

Data File C:\CHEM32\...3_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\008F1001.D
Sample Name: 1202004-03

==========

Acq. Operator : ACM
Seq. Line : 10
Acq. Instrument : AG3-6890N
Location : Vial 8
Injection Date : 2/13/2012 7:00:40 PM
Inj : 1
Inj Volume : 1 µl
Acq. Method : C:\CHEM32\1\DATA\120213_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120213.M
Last changed : 2/16/2012 8:27:30 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 : 2/16/2012 8:27:21 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
1.515		-	-	-		Methanol
1.740		-	-	-		Ethanol
2.528		-	-	-		1-Propanol
2.761		-	-	-		2-Butanol
4.775		-	-	-		1-Butanol

N/D

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 : 2/16/2012 8:27:21 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	1.515		0.0000	0.00000	0.00000	Methanol
2	1.740		0.0000	0.00000	0.00000	Ethanol
3	2.528		0.0000	0.00000	0.00000	1-Propanol
4	2.761		0.0000	0.00000	0.00000	2-Butanol
5	4.775		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 ***

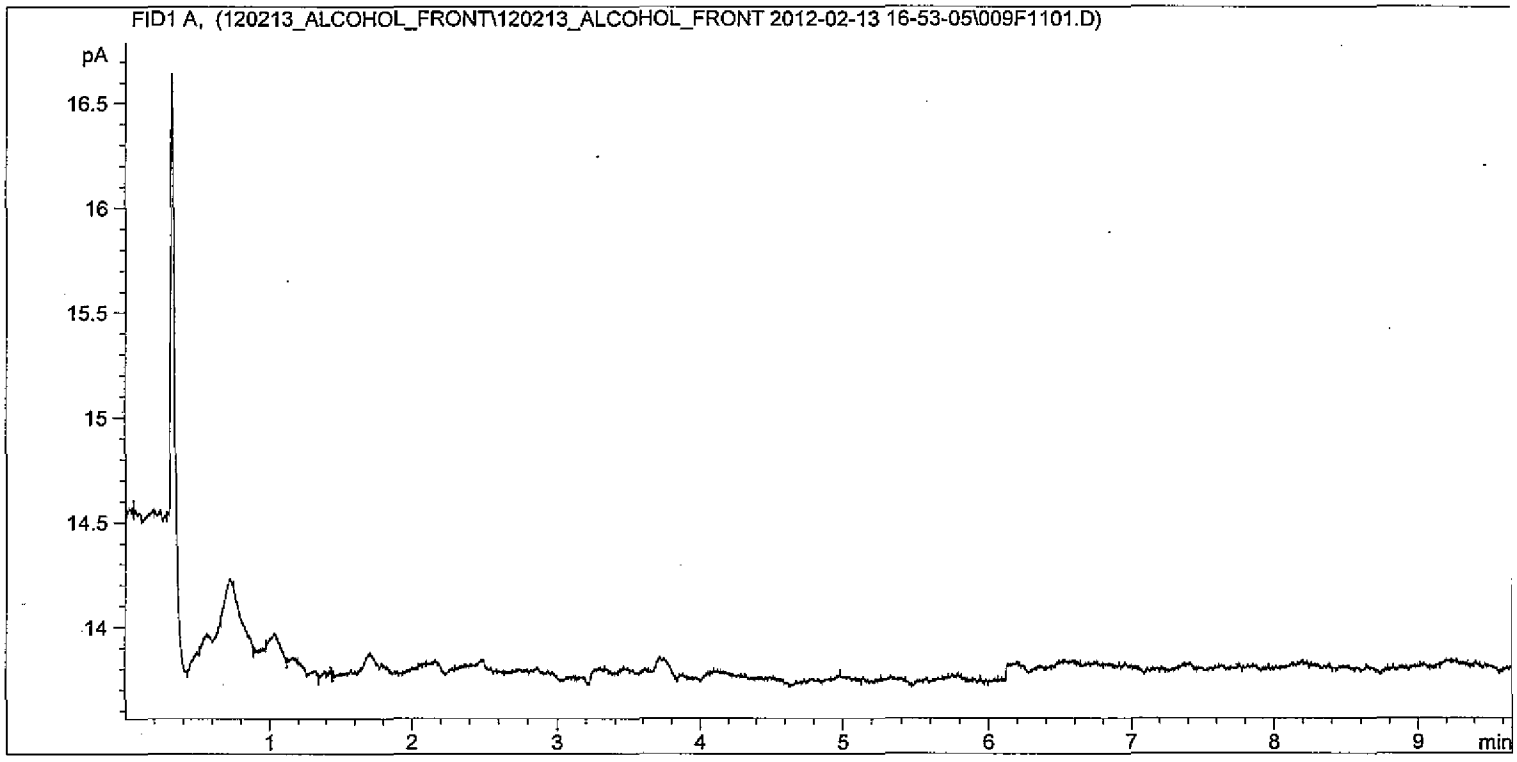
Am

DIM0209516 DIM0209654

Data File C:\CHEM32\...3_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\009F1101.D
Sample Name: 1202004-06

Acq. Operator	: ACM	Seq. Line :	11
Acq. Instrument	: AG3-6890N	Location :	Vial 9
Injection Date	: 2/13/2012 7:14:30 PM	Inj :	1
		Inj Volume :	1 µl

Acq. Method : C:\CHEM32\1\DATA\120213_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120213.M
Last changed : 2/16/2012 8:27:30 AM by ACM
Method Info : FID method for Alcohol analysis



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/16/2012 8:27:21 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
1.515		-	-	-		Methanol
1.740		-	-	-		Ethanol
2.528		-	-	-		1-Propanol
2.761		-	-	-		2-Butanol
4.775		-	-	-		1-Butanol

N/D

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==========

Area Percent Report

==========

Sorted By : Signal
Calib. Data Modified : 2/16/2012 8:27:21 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	1.515		0.0000	0.00000	0.00000	Methanol
2	1.740		0.0000	0.00000	0.00000	Ethanol
3	2.528		0.0000	0.00000	0.00000	1-Propanol
4	2.761		0.0000	0.00000	0.00000	2-Butanol
5	4.775		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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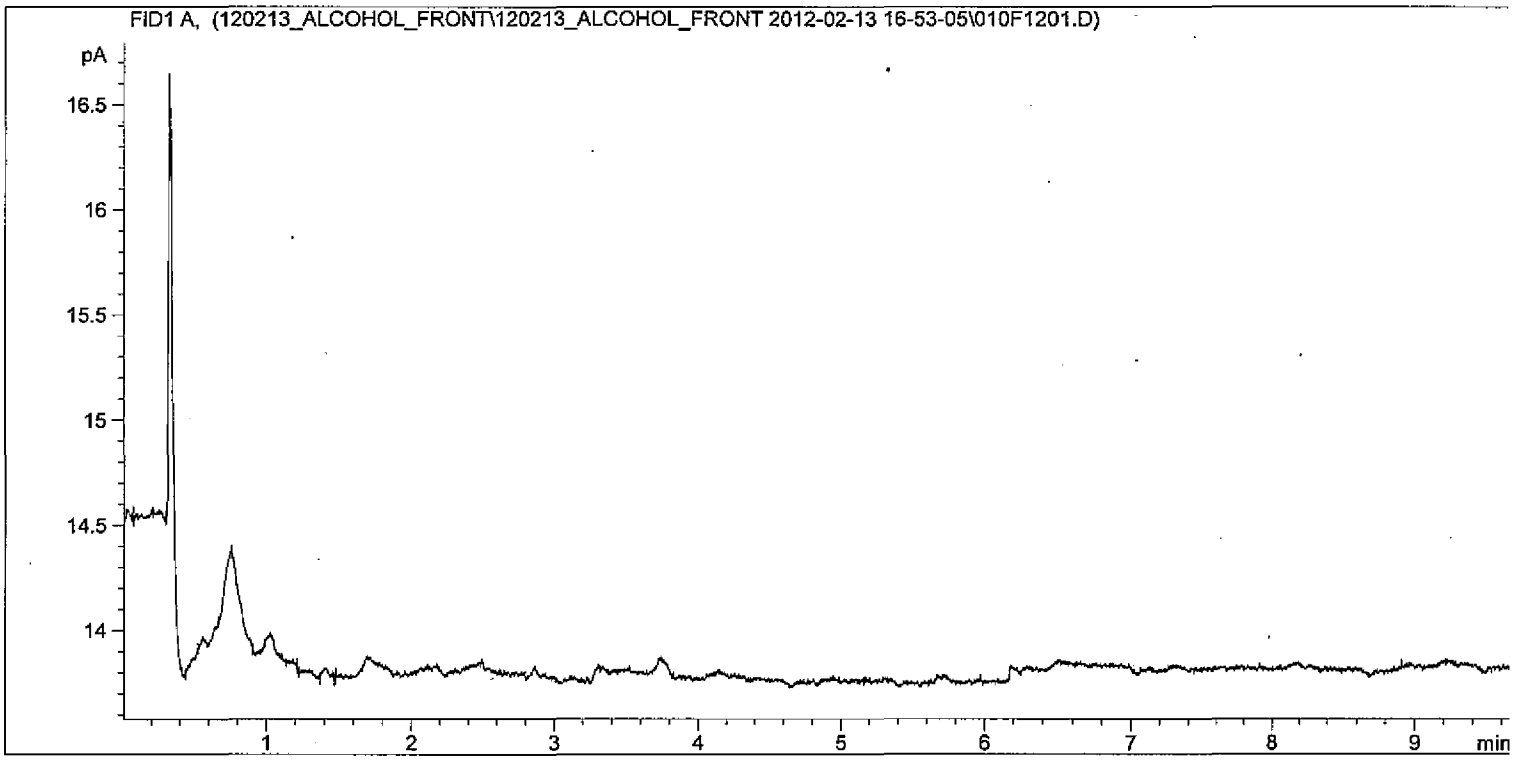
*** End of Report ***

Acm

Data File C:\CHEM32\...3_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\010F1201.D
Sample Name: 1202004-08

==========

Acq. Operator : ACM
Seq. Line : 12
Acq. Instrument : AG3-6890N
Location : Vial 10
Injection Date : 2/13/2012 7:28:19 PM
Inj : 1
Inj Volume : 1 µl
Acq. Method : C:\CHEM32\1\DATA\120213_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120213.M
Last changed : 2/16/2012 8:27:30 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 : 2/16/2012 8:27:21 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
1.515		-	-	-		Methanol
1.740		-	-	-		Ethanol
2.528		-	-	-		1-Propanol
2.761		-	-	-		2-Butanol
4.775		-	-	-		1-Butanol

N/D

DIM0209516
DIM0209657

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 : 2/16/2012 8:27:21 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	1.515		0.0000	0.00000	0.00000	Methanol
2	1.740		0.0000	0.00000	0.00000	Ethanol
3	2.528		0.0000	0.00000	0.00000	1-Propanol
4	2.761		0.0000	0.00000	0.00000	2-Butanol
5	4.775		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

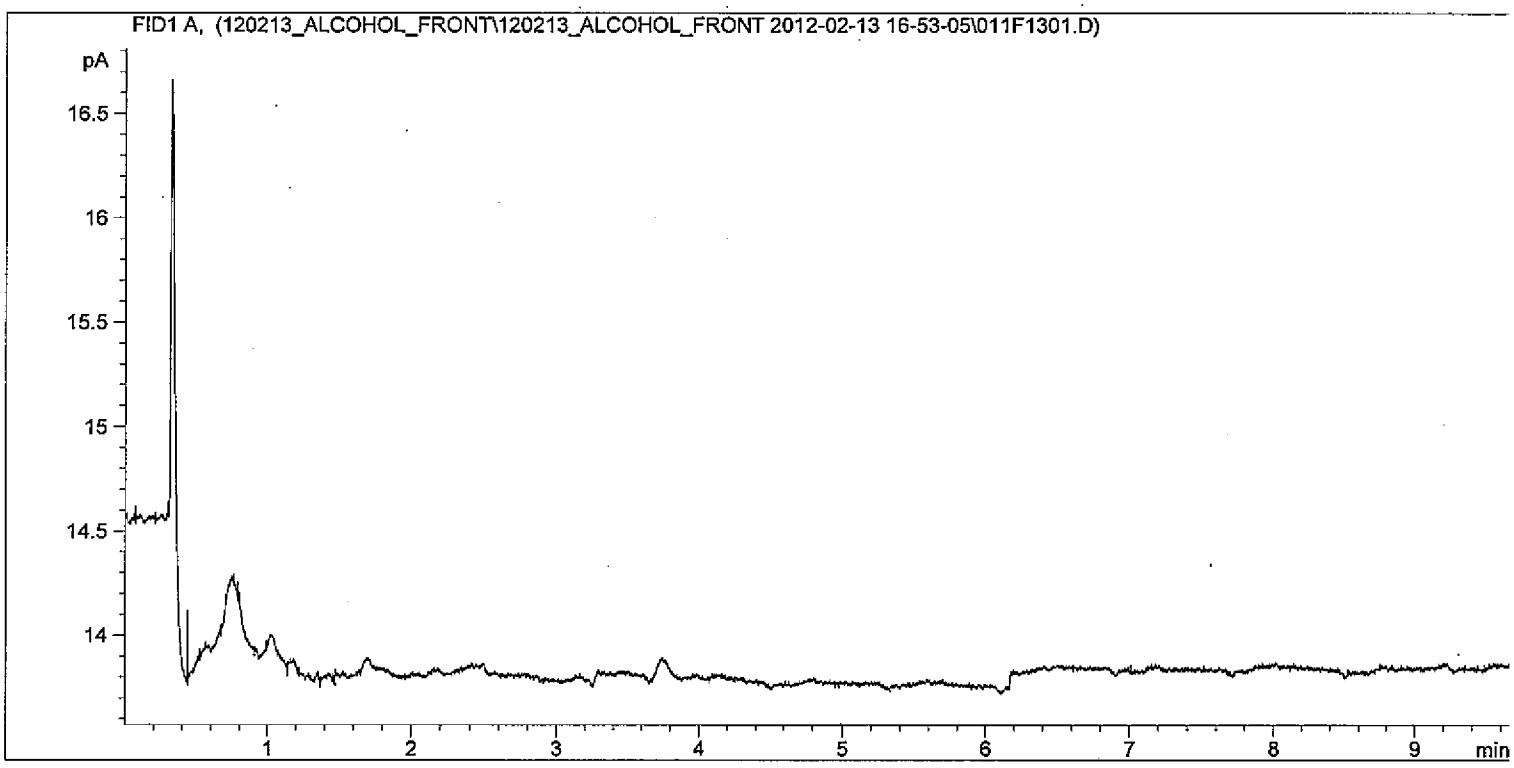
==========
*** End of Report ***

Am

Data File C:\CHEM32\...3_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\011F1301.D
Sample Name: 1202004-11

==========

Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 2/13/2012 7:42:08 PM
Seq. Line : 13
Location : Vial 11
Inj : 1
Inj Volume : 1 µl
Acq. Method : C:\CHEM32\1\DATA\120213_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120213.M
Last changed : 2/16/2012 8:27:30 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 : 2/16/2012 8:27:21 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
1.515		-	-	-		Methanol
1.740		-	-	-		Ethanol
2.528		-	-	-		1-Propanol
2.761		-	-	-		2-Butanol
4.775		-	-	-		1-Butanol

N/D

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 : 2/16/2012 8:27:21 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	1.515		0.0000	0.00000	0.00000	Methanol
2	1.740		0.0000	0.00000	0.00000	Ethanol
3	2.528		0.0000	0.00000	0.00000	1-Propanol
4	2.761		0.0000	0.00000	0.00000	2-Butanol
5	4.775		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

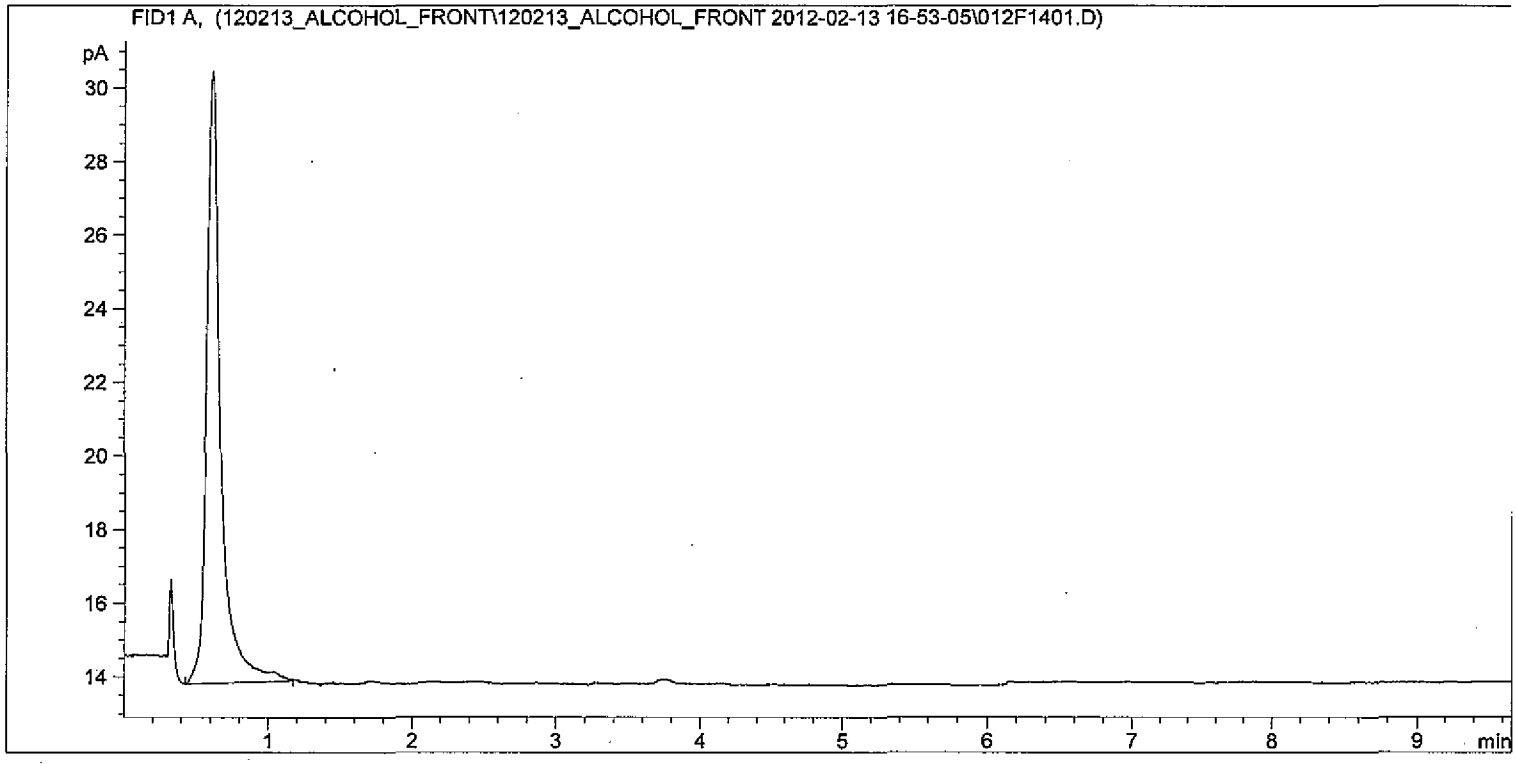
==========
*** End of Report ***

Am

Data File C:\CHEM32\...3_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\012F1401.D
Sample Name: 1202004-13

Acq. Operator	: ACM	Seq. Line	: 14
Acq. Instrument	: AG3-6890N	Location	: Vial 12
Injection Date	: 2/13/2012 7:55:57 PM	Inj	: 1
		Inj Volume	: 1 µl

Acq. Method : C:\CHEM32\1\DATA\120213_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120213.M
Last changed : 2/16/2012 8:27:30 AM by ACM
Method Info : FID method for Alcohol analysis



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/16/2012 8:27:21 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
1.515		-	-	-		Methanol
1.740		-	-	-		Ethanol
2.528		-	-	-		1-Propanol
2.761		-	-	-		2-Butanol
4.775		-	-	-		1-Butanol

N/D

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 : 2/16/2012 8:27:21 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	1.515		0.0000	0.00000	0.00000	Methanol
2	1.740		0.0000	0.00000	0.00000	Ethanol
3	2.528		0.0000	0.00000	0.00000	1-Propanol
4	2.761		0.0000	0.00000	0.00000	2-Butanol
5	4.775		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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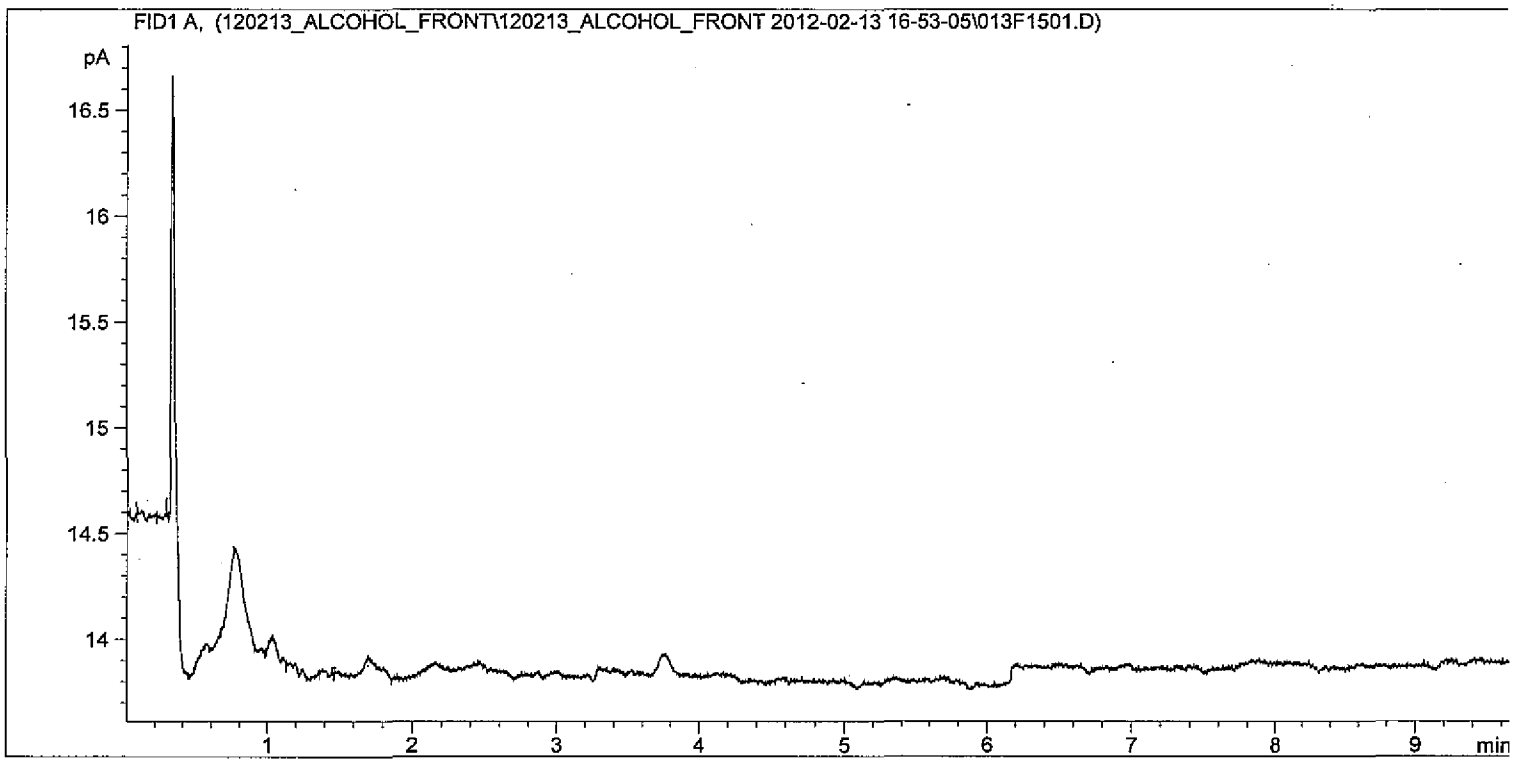
*** End of Report ***

Acm

Data File C:\CHEM32\...3_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\013F1501.D
Sample Name: 1202004-15

==========

Acq. Operator : ACM
Seq. Line : 15
Acq. Instrument : AG3-6890N
Location : Vial 13
Injection Date : 2/13/2012 8:09:48 PM
Inj : 1
Inj Volume : 1 µl
Acq. Method : C:\CHEM32\1\DATA\120213_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120213.M
Last changed : 2/16/2012 8:27:30 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 : 2/16/2012 8:27:21 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
1.515		-	-	-		Methanol
1.740		-	-	-		Ethanol
2.528		-	-	-		1-Propanol
2.761		-	-	-		2-Butanol
4.775		-	-	-		1-Butanol

N/D

DIM0209516 DIM0209663

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 : 2/16/2012 8:27:21 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	1.515		0.0000	0.00000	0.00000	Methanol
2	1.740		0.0000	0.00000	0.00000	Ethanol
3	2.528		0.0000	0.00000	0.00000	1-Propanol
4	2.761		0.0000	0.00000	0.00000	2-Butanol
5	4.775		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 ***

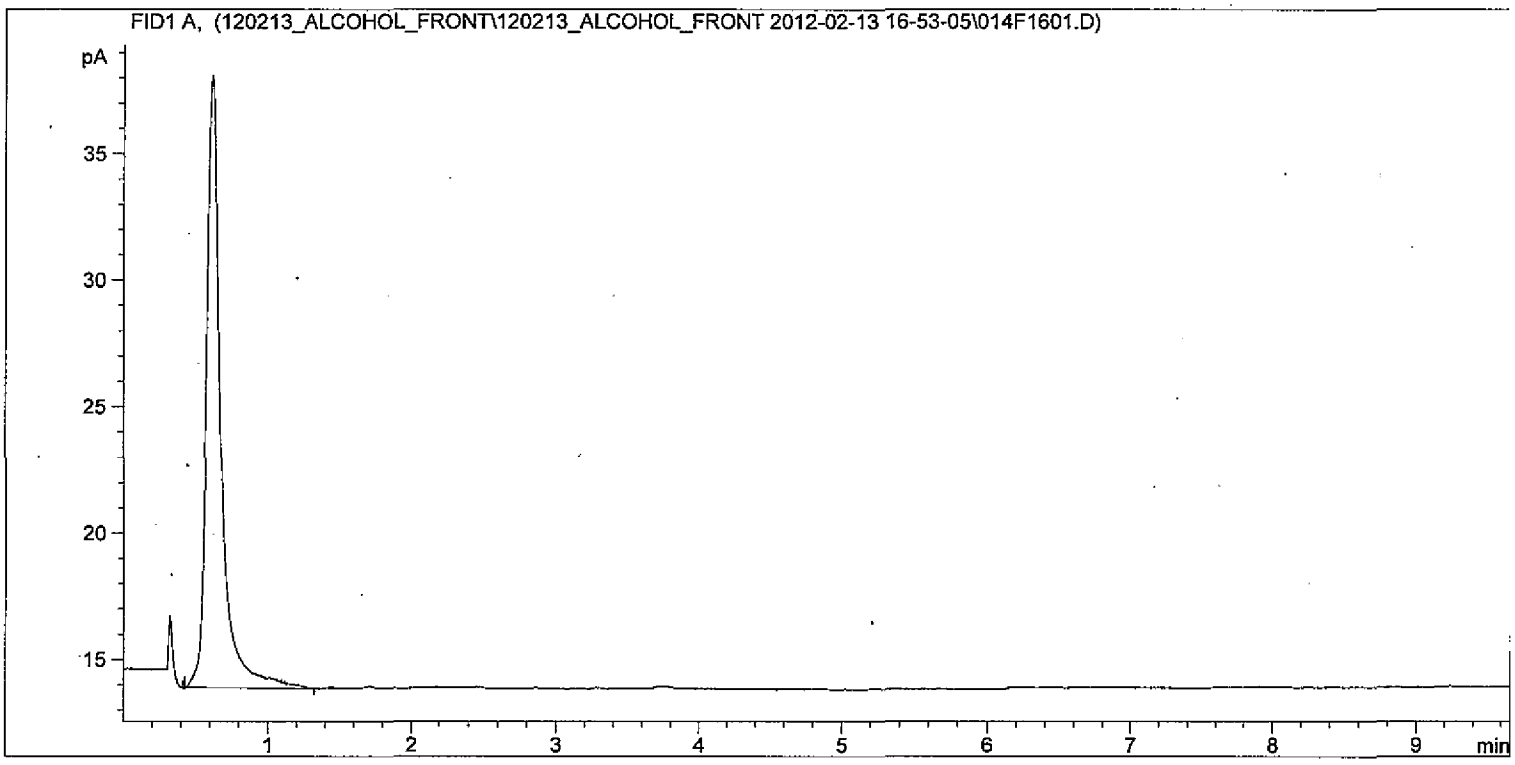
Am

DIM0209516 DIM0209664

Data File C:\CHEM32\...3_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\014F1601.D
Sample Name: 1202004-17

Acq. Operator	: ACM	Seq. Line	: 16
Acq. Instrument	: AG3-6890N	Location	: Vial 14
Injection Date	: 2/13/2012 8:23:37 PM	Inj	: 1
		Inj Volume	: 1 µl

Acq. Method : C:\CHEM32\1\DATA\120213_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120213.M
Last changed : 2/16/2012 8:27:30 AM by ACM
Method Info : FID method for Alcohol analysis



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/16/2012 8:27:21 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
1.515		-	-	-		Methanol
1.740		-	-	-		Ethanol
2.528		-	-	-		1-Propanol
2.761		-	-	-		2-Butanol
4.775		-	-	-		1-Butanol

N/D

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 : 2/16/2012 8:27:21 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	1.515		0.0000	0.00000	0.00000	Methanol
2	1.740		0.0000	0.00000	0.00000	Ethanol
3	2.528		0.0000	0.00000	0.00000	1-Propanol
4	2.761		0.0000	0.00000	0.00000	2-Butanol
5	4.775		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 ***

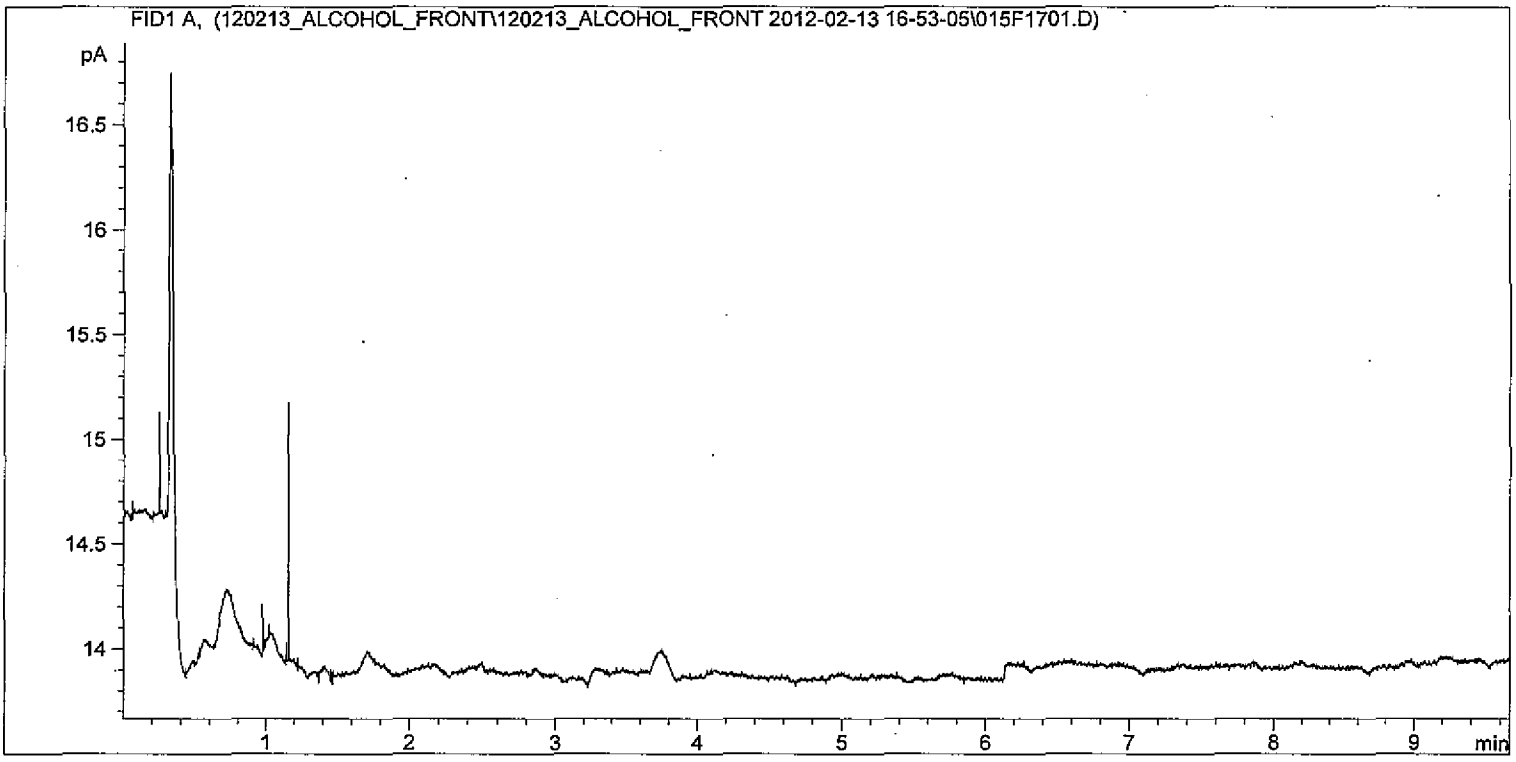
ACM

DIM0209516 DIM0209666

Data File C:\CHEM32\...3_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\015F1701.D
Sample Name: 1202004-21

==========

Acq. Operator : ACM
Seq. Line : 17
Acq. Instrument : AG3-6890N
Location : Vial 15
Injection Date : 2/13/2012 8:37:26 PM
Inj : 1
Inj Volume : 1 µl
Acq. Method : C:\CHEM32\1\DATA\120213_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120213.M
Last changed : 2/16/2012 8:27:30 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 : 2/16/2012 8:27:21 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
1.515		-	-	-		Methanol
1.740		-	-	-		Ethanol
2.528		-	-	-		1-Propanol
2.761		-	-	-		2-Butanol
4.775		-	-	-		1-Butanol

N/D

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 : 2/16/2012 8:27:21 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	1.515		0.0000	0.00000	0.00000	Methanol
2	1.740		0.0000	0.00000	0.00000	Ethanol
3	2.528		0.0000	0.00000	0.00000	1-Propanol
4	2.761		0.0000	0.00000	0.00000	2-Butanol
5	4.775		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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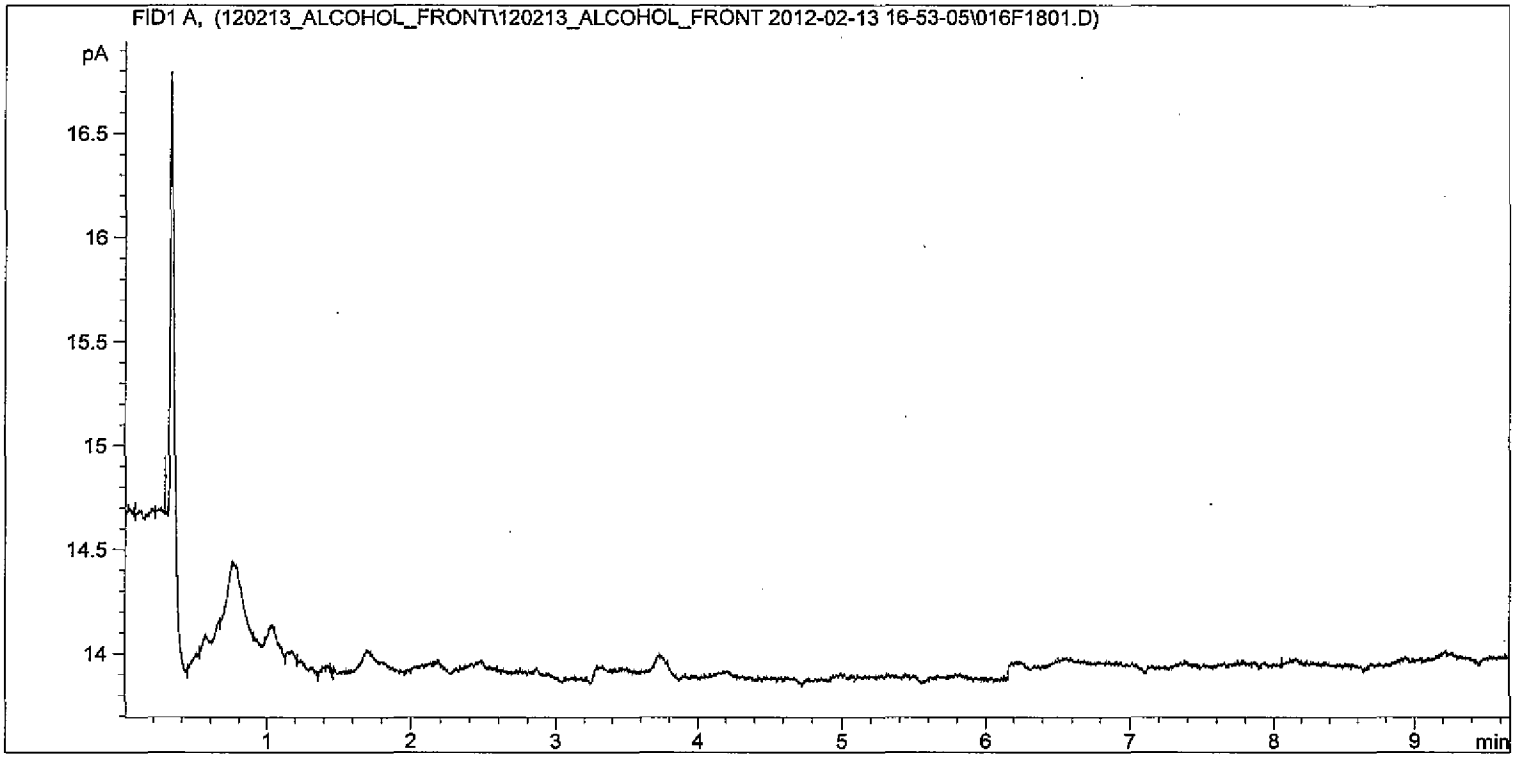
*** End of Report ***

Am

Data File C:\CHEM32\...3_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\016F1801.D
Sample Name: 1202004-22

==========

Acq. Operator : ACM
Seq. Line : 18
Acq. Instrument : AG3-6890N
Location : Vial 16
Injection Date : 2/13/2012 8:51:17 PM
Inj : 1
Inj Volume : 1 µl
Acq. Method : C:\CHEM32\1\DATA\120213_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120213.M
Last changed : 2/16/2012 8:27:30 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 : 2/16/2012 8:27:21 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
1.515		-	-	-		Methanol
1.740		-	-	-		Ethanol
2.528		-	-	-		1-Propanol
2.761		-	-	-		2-Butanol
4.775		-	-	-		1-Butanol

N/D

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 : 2/16/2012 8:27:21 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	1.515		0.0000	0.00000	0.00000	Methanol
2	1.740		0.0000	0.00000	0.00000	Ethanol
3	2.528		0.0000	0.00000	0.00000	1-Propanol
4	2.761		0.0000	0.00000	0.00000	2-Butanol
5	4.775		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 ***

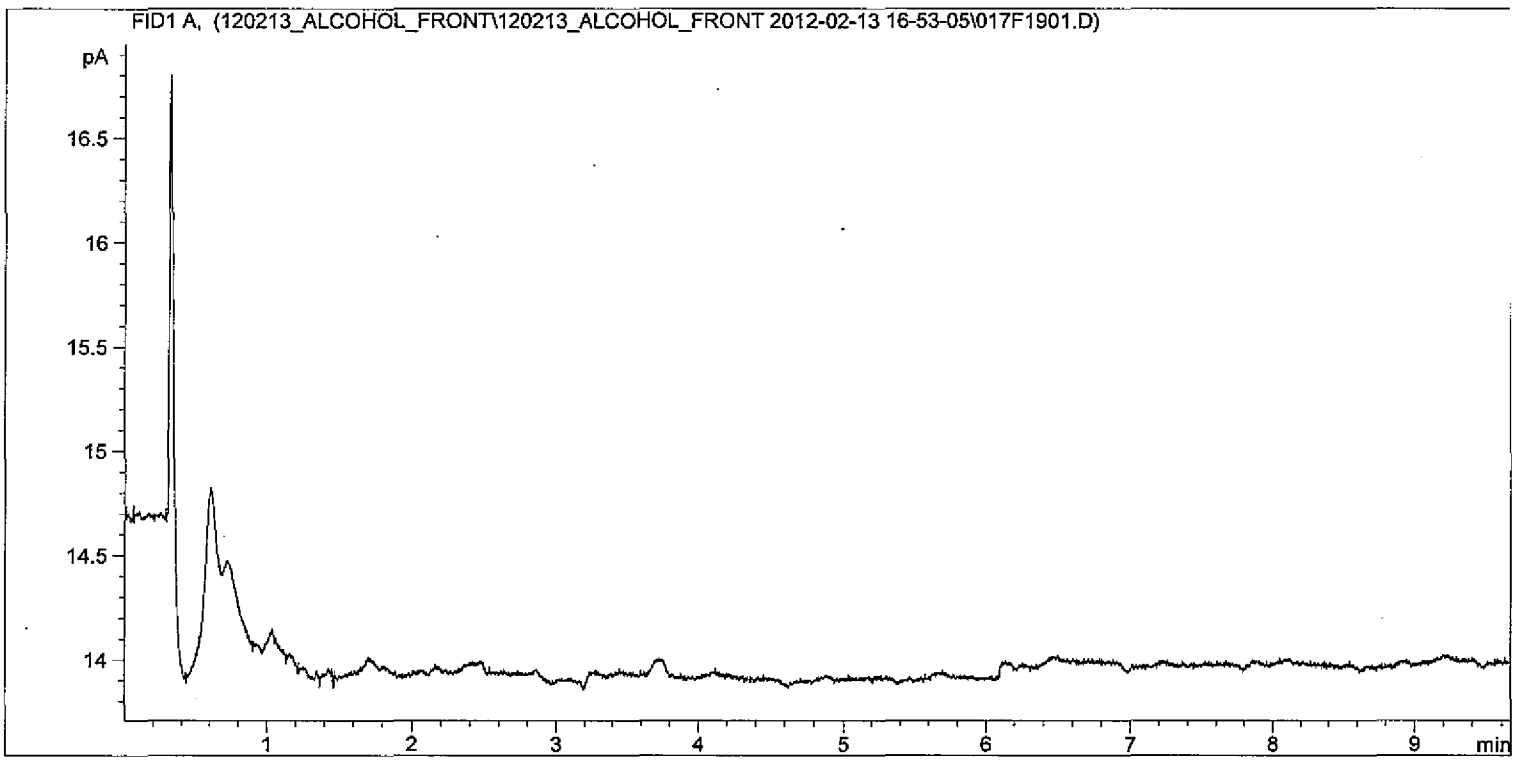
ACM

DIM0209516 DIM0209670

Data File C:\CHEM32\...3_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\017F1901.D
Sample Name: 1202004-23

Acq. Operator	: ACM	Seq. Line :	19
Acq. Instrument	: AG3-6890N	Location :	Vial 17
Injection Date	: 2/13/2012 9:05:05 PM	Inj :	1
		Inj Volume :	1 µl

Acq. Method : C:\CHEM32\1\DATA\120213_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120213.M
Last changed : 2/16/2012 8:27:30 AM by ACM
Method Info : FID method for Alcohol analysis



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/16/2012 8:27:21 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
1.515		-	-	-		Methanol
1.740		-	-	-		Ethanol
2.528		-	-	-		1-Propanol
2.761		-	-	-		2-Butanol
4.775		-	-	-		1-Butanol

N/D

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 : 2/16/2012 8:27:21 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	1.515		0.0000	0.00000	0.00000	Methanol
2	1.740		0.0000	0.00000	0.00000	Ethanol
3	2.528		0.0000	0.00000	0.00000	1-Propanol
4	2.761		0.0000	0.00000	0.00000	2-Butanol
5	4.775		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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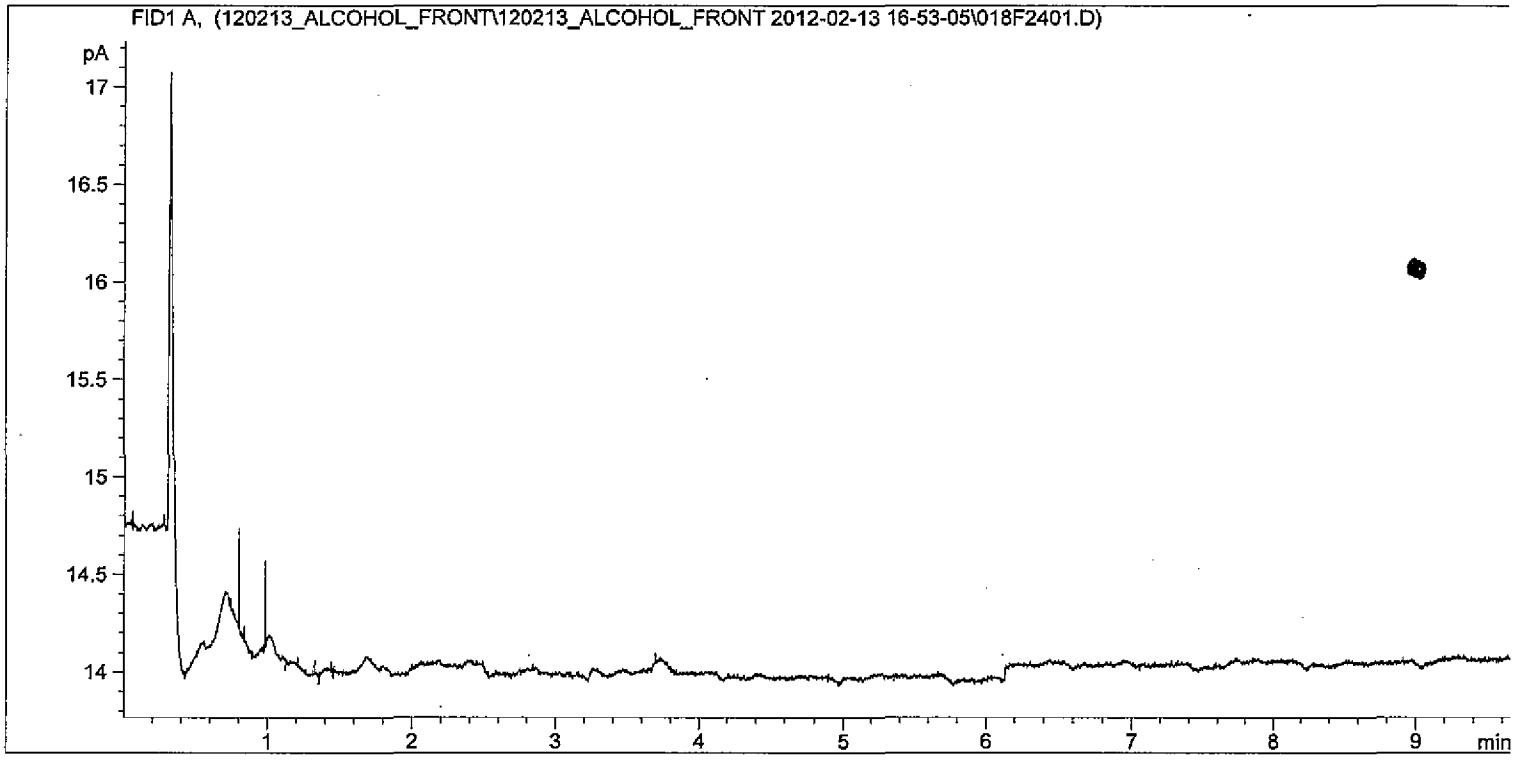
*** End of Report ***

ACM

Data File C:\CHEM32\...3_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\018F2401.D
Sample Name: 1202004-24

Acq. Operator	: ACM	Seq. Line :	24
Acq. Instrument	: AG3-6890N	Location :	Vial 18
Injection Date	: 2/13/2012 10:14:15 PM	Inj :	1
		Inj Volume :	1 µl

Acq. Method : C:\CHEM32\1\DATA\120213_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120213.M
Last changed : 2/16/2012 8:27:30 AM by ACM
Method Info : FID method for Alcohol analysis



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/16/2012 8:27:21 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
1.515		-	-	-		Methanol
1.740		-	-	-		Ethanol
2.528		-	-	-		1-Propanol
2.761		-	-	-		2-Butanol
4.775		-	-	-		1-Butanol

ND

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 : 2/16/2012 8:27:21 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	1.515		0.0000	0.00000	0.00000	Methanol
2	1.740		0.0000	0.00000	0.00000	Ethanol
3	2.528		0.0000	0.00000	0.00000	1-Propanol
4	2.761		0.0000	0.00000	0.00000	2-Butanol
5	4.775		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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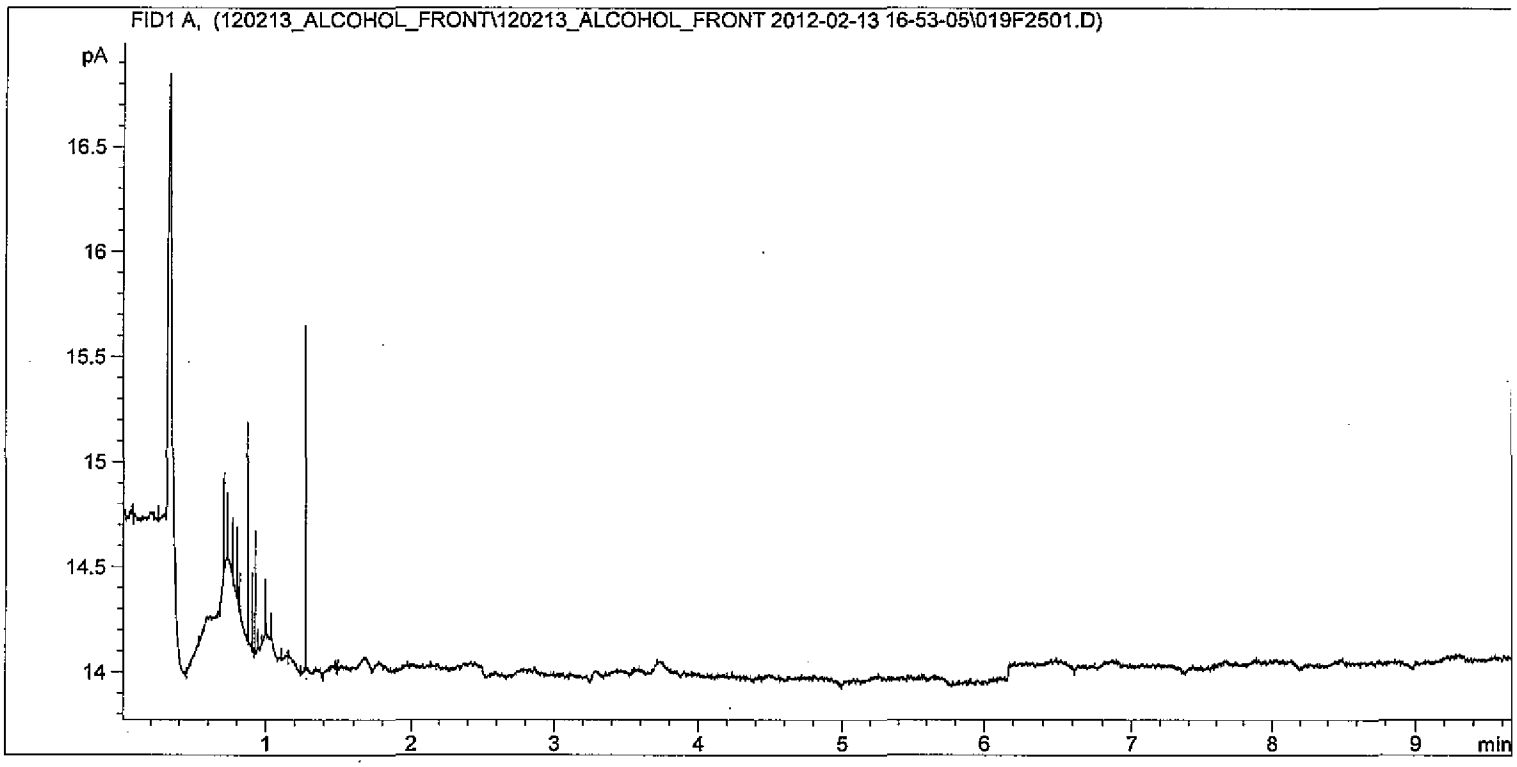
*** End of Report ***

Acm

Data File C:\CHEM32\...3_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\019F2501.D
Sample Name: 1202004-25

Acq. Operator	: ACM	Seq. Line :	25
Acq. Instrument	: AG3-6890N	Location :	Vial 19
Injection Date	: 2/13/2012 10:28:05 PM	Inj :	1
		Inj Volume :	1 µl
Acq. Method	: C:\CHEM32\1\DATA\120213_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\ALCOHOLS_FRONT.M		
Last changed	: 1/31/2012 7:43:47 AM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120213.M		
Last changed	: 2/16/2012 8:27:30 AM by ACM		
Method Info	: FID method for Alcohol analysis		



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/16/2012 8:27:21 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
1.515		-	-	-		Methanol
1.740		-	-	-		Ethanol
2.528		-	-	-		1-Propanol
2.761		-	-	-		2-Butanol
4.775		-	-	-		1-Butanol

N|D

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 : 2/16/2012 8:27:21 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	1.515		0.0000	0.00000	0.00000	Methanol
2	1.740		0.0000	0.00000	0.00000	Ethanol
3	2.528		0.0000	0.00000	0.00000	1-Propanol
4	2.761		0.0000	0.00000	0.00000	2-Butanol
5	4.775		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

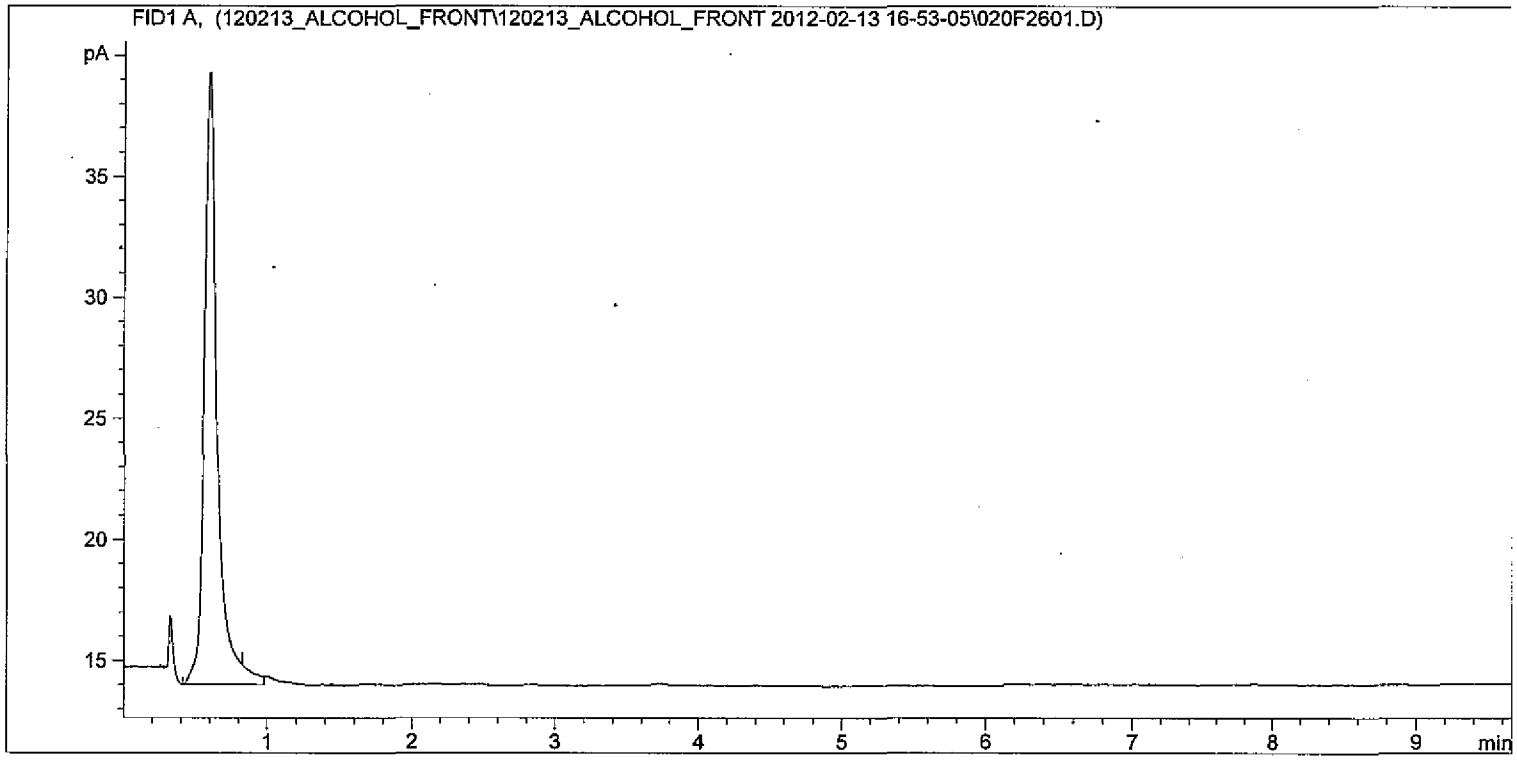
==========
*** End of Report ***

AM

DIM0209516 DIM0209676

Data File C:\CHEM32\...3_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\020F2601.D
Sample Name: 1202004-26

Acq. Operator	: ACM	Seq. Line :	26
Acq. Instrument	: AG3-6890N	Location :	Vial 20
Injection Date	: 2/13/2012 10:41:54 PM	Inj :	1
		Inj Volume :	1 µl
Acq. Method	: C:\CHEM32\1\DATA\120213_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\ALCOHOLS_FRONT.M		
Last changed	: 1/31/2012 7:43:47 AM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120213.M		
Last changed	: 2/16/2012 8:27:30 AM by ACM		
Method Info	: FID method for Alcohol analysis		



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/16/2012 8:27:21 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Aem

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.515		-	-	-		Methanol
1.740		-	-	-		Ethanol
2.528		-	-	-		1-Propanol
2.761		-	-	-		2-Butanol
4.775		-	-	-		1-Butanol

N/D

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 : 2/16/2012 8:27:21 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	1.515		0.0000	0.00000	0.00000	Methanol
2	1.740		0.0000	0.00000	0.00000	Ethanol
3	2.528		0.0000	0.00000	0.00000	1-Propanol
4	2.761		0.0000	0.00000	0.00000	2-Butanol
5	4.775		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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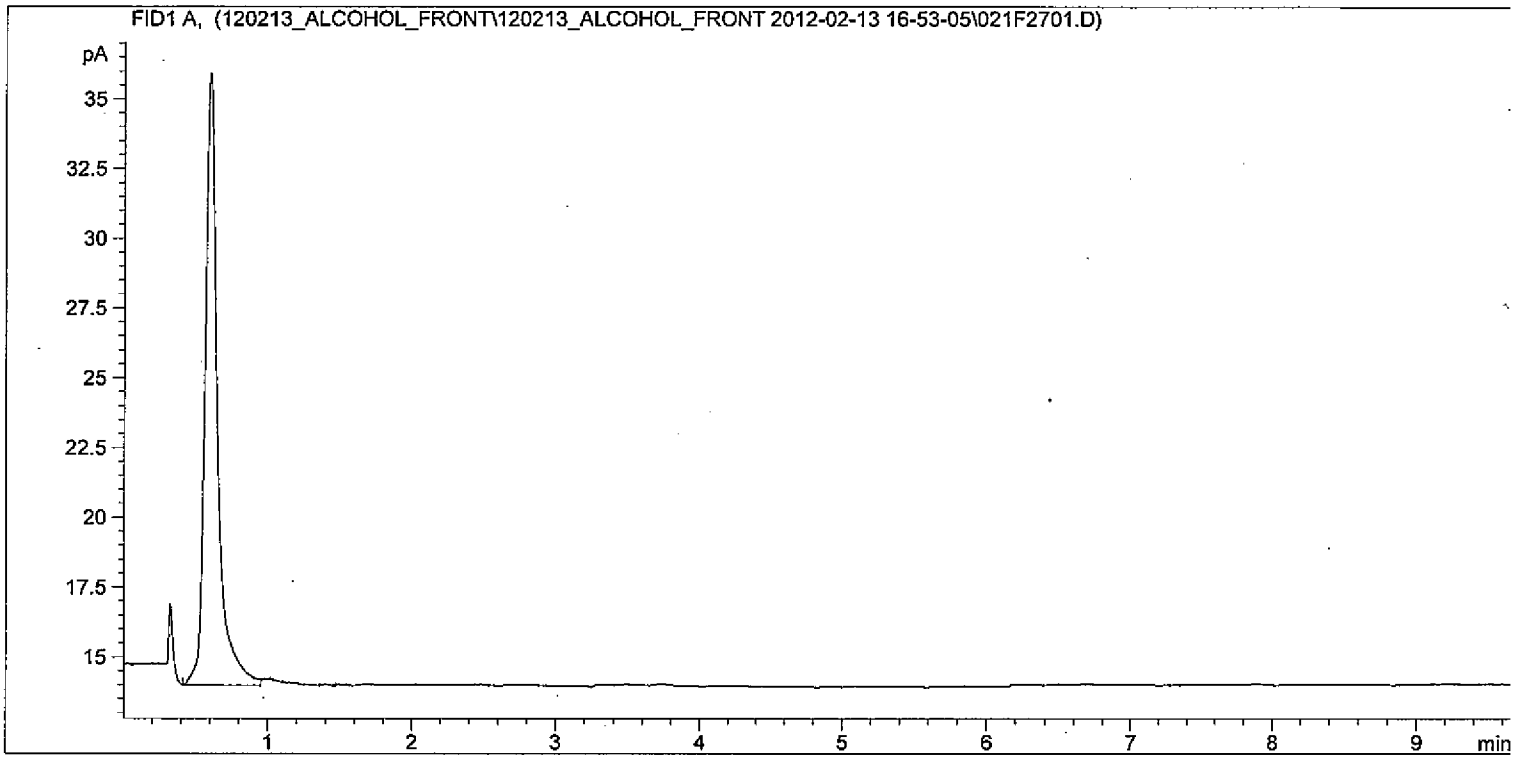
*** End of Report ***

Acm

Data File C:\CHEM32\...3_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\021F2701.D
Sample Name: 1202004-27

Acq. Operator	: ACM	Seq. Line	: 27
Acq. Instrument	: AG3-6890N	Location	: Vial 21
Injection Date	: 2/13/2012 10:55:43 PM	Inj	: 1
		Inj Volume	: 1 µl
Acq. Method	: C:\CHEM32\1\DATA\120213_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\ALCOHOLS_FRONT.M		
Last changed	: 1/31/2012 7:43:47 AM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120213.M		
Last changed	: 2/16/2012 8:27:30 AM by ACM		
Method Info	: FID method for Alcohol analysis		



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/16/2012 8:27:21 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
1.515		-	-	-		Methanol
1.740		-	-	-		Ethanol
2.528		-	-	-		1-Propanol
2.761		-	-	-		2-Butanol
4.775		-	-	-		1-Butanol

N/D

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 : 2/16/2012 8:27:21 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	1.515		0.0000	0.00000	0.00000	Methanol
2	1.740		0.0000	0.00000	0.00000	Ethanol
3	2.528		0.0000	0.00000	0.00000	1-Propanol
4	2.761		0.0000	0.00000	0.00000	2-Butanol
5	4.775		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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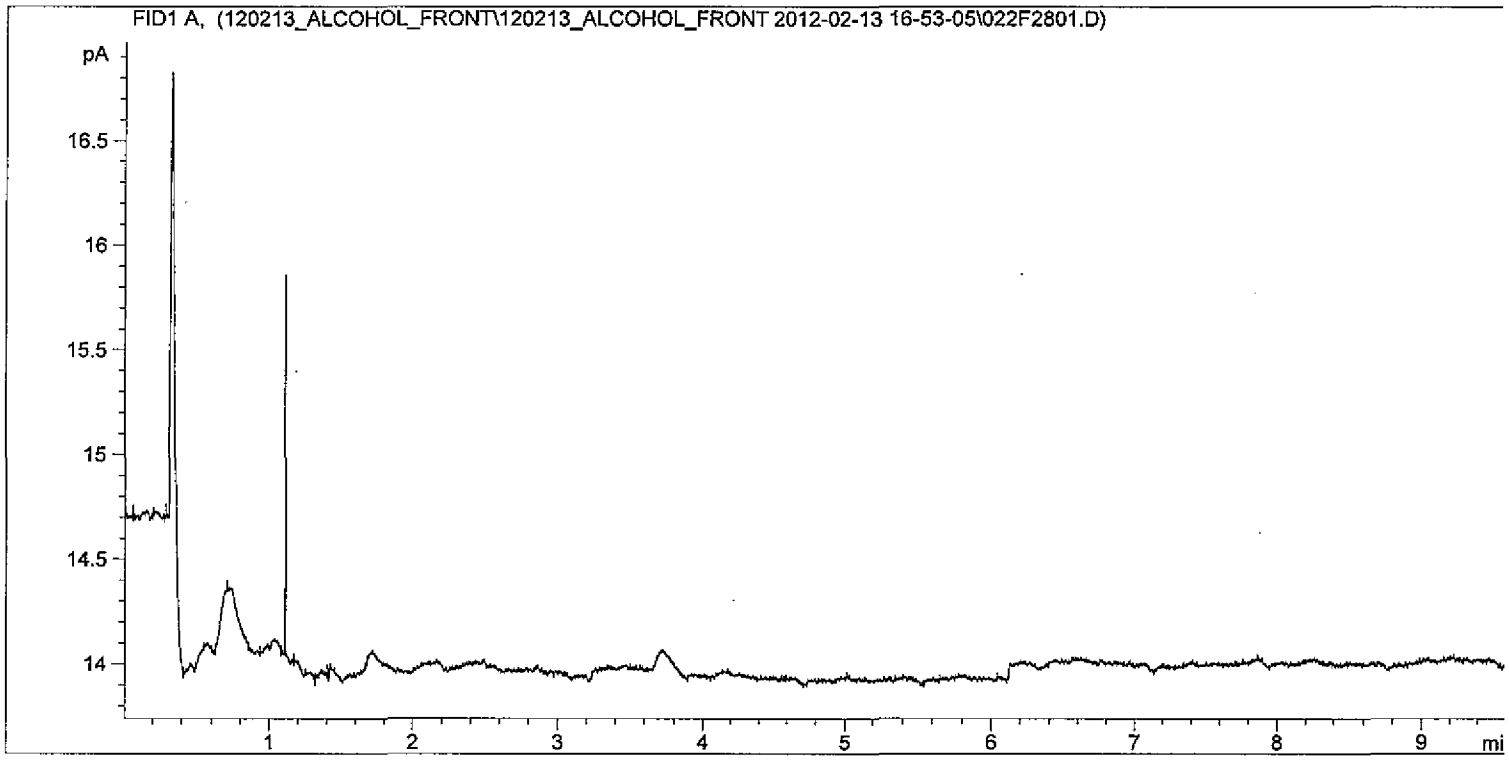
*** End of Report ***

Aem

Data File C:\CHEM32\...3_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\022F2801.D
Sample Name: 1202004-28

==========

Acq. Operator : ACM
Seq. Line : 28
Acq. Instrument : AG3-6890N
Location : Vial 22
Injection Date : 2/13/2012 11:09:33 PM
Inj : 1
Inj Volume : 1 µl
Acq. Method : C:\CHEM32\1\DATA\120213_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120213.M
Last changed : 2/16/2012 8:27:30 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 : 2/16/2012 8:27:21 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Acm

Signal 1: FID1 A,

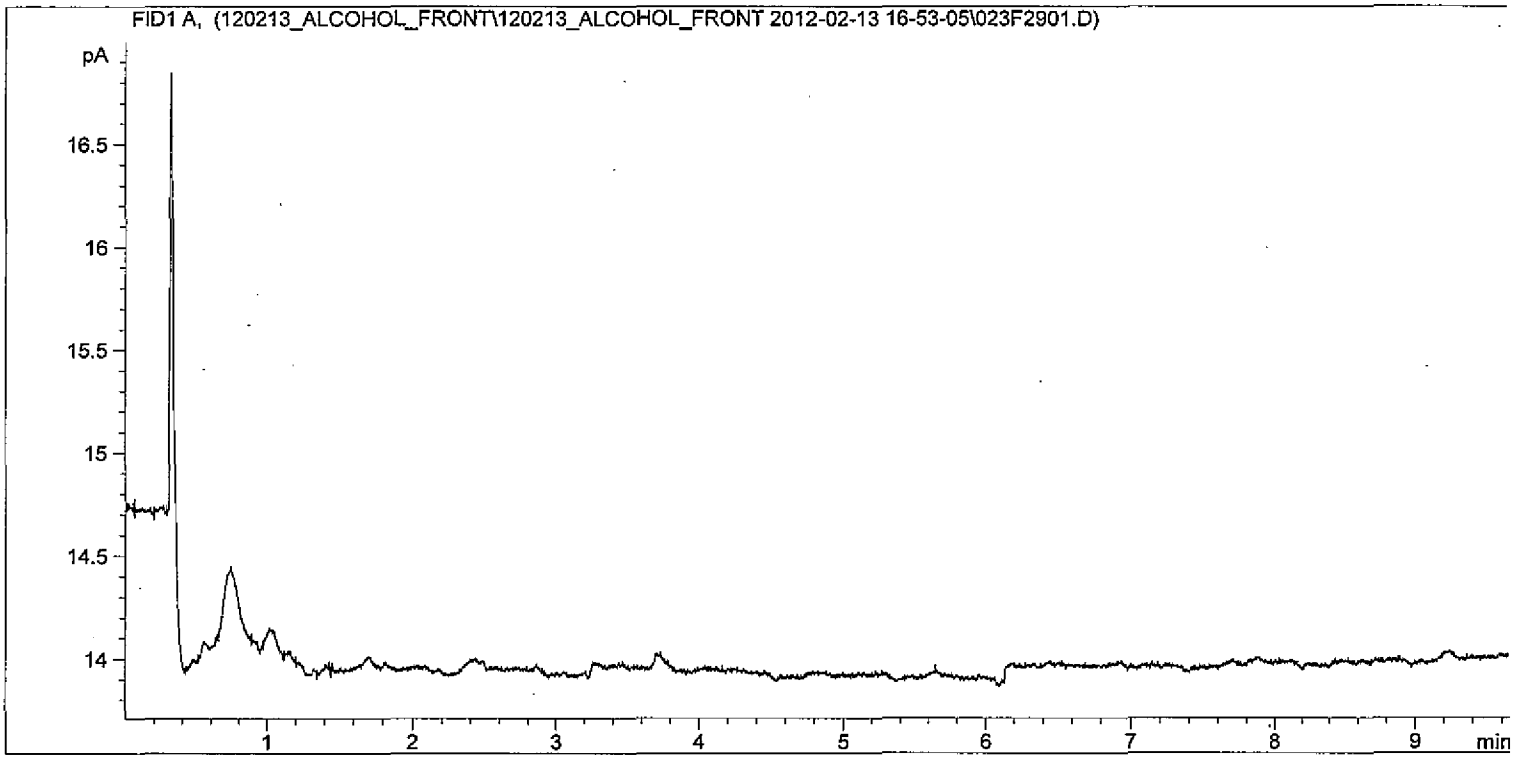
RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
1.515		-	-	-		Methanol
1.740		-	-	-		Ethanol
2.528		-	-	-		1-Propanol
2.761		-	-	-		2-Butanol
4.775		-	-	-		1-Butanol

N/D

Data File C:\CHEM32\...3_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\023F2901.D
Sample Name: 1202004-29

==========

Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 2/13/2012 11:23:22 PM
Seq. Line : 29
Location : Vial 23
Inj : 1
Inj Volume : 1 µl
Acq. Method : C:\CHEM32\1\DATA\120213_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120213.M
Last changed : 2/16/2012 8:27:30 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 : 2/16/2012 8:27:21 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
1.515		-	-	-		Methanol
1.740		-	-	-		Ethanol
2.528		-	-	-		1-Propanol
2.761		-	-	-		2-Butanol
4.775		-	-	-		1-Butanol

ND

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 : 2/16/2012 8:27:21 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	1.515		0.0000	0.00000	0.00000	Methanol
2	1.740		0.0000	0.00000	0.00000	Ethanol
3	2.528		0.0000	0.00000	0.00000	1-Propanol
4	2.761		0.0000	0.00000	0.00000	2-Butanol
5	4.775		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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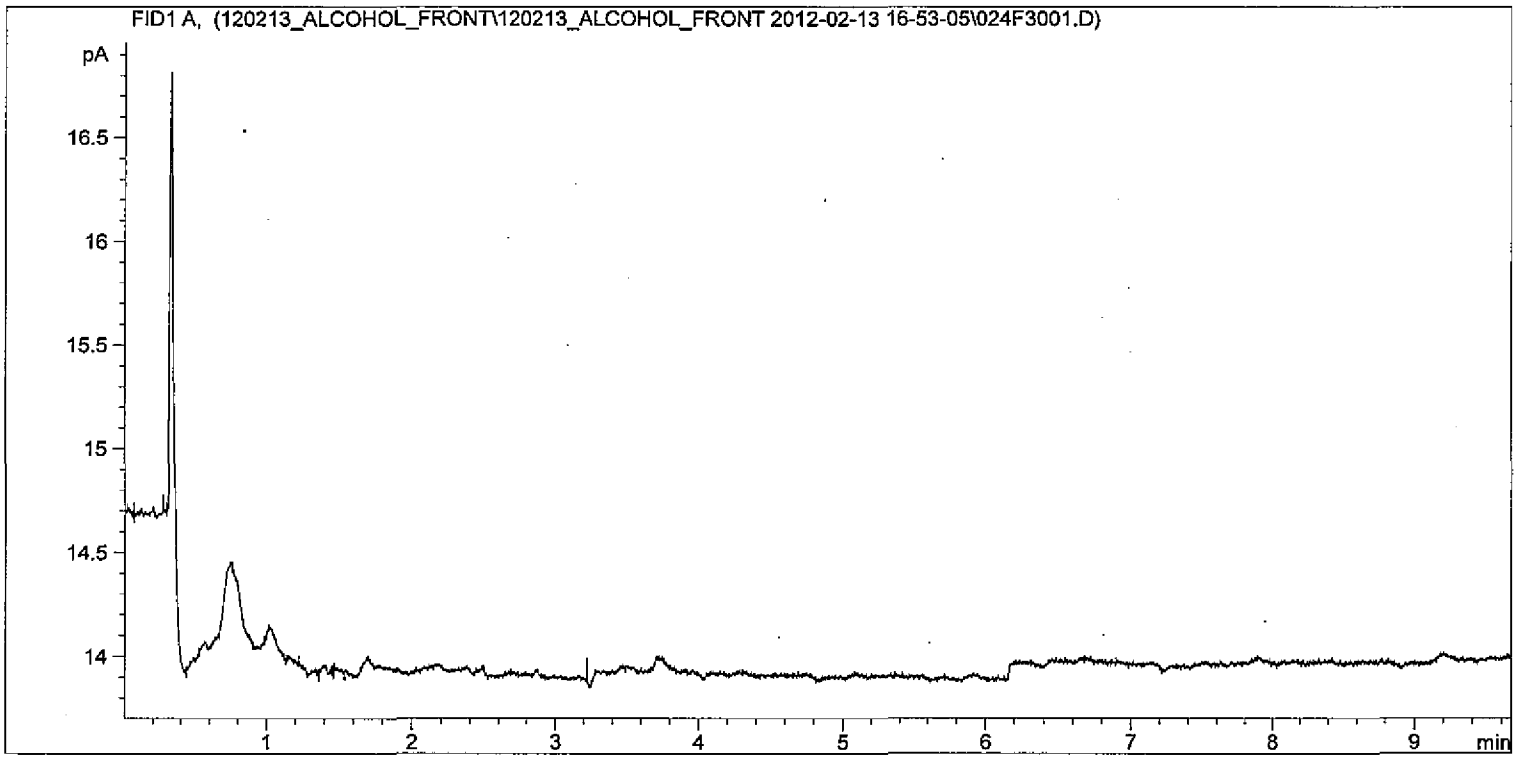
*** End of Report ***

Acm

Data File C:\CHEM32\...3_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\024F3001.D
Sample Name: 1202004-30

==========

Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 2/13/2012 11:37:11 PM
Seq. Line : 30
Location : Vial 24
Inj : 1
Inj Volume : 1 µl
Acq. Method : C:\CHEM32\1\DATA\120213_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120213.M
Last changed : 2/16/2012 8:27:30 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 : 2/16/2012 8:27:21 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
1.515		-	-	-		Methanol
1.740		-	-	-		Ethanol
2.528		-	-	-		1-Propanol
2.761		-	-	-		2-Butanol
4.775		-	-	-		1-Butanol

N/D

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 : 2/16/2012 8:27:21 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	1.515		0.0000	0.00000	0.00000	Methanol
2	1.740		0.0000	0.00000	0.00000	Ethanol
3	2.528		0.0000	0.00000	0.00000	1-Propanol
4	2.761		0.0000	0.00000	0.00000	2-Butanol
5	4.775		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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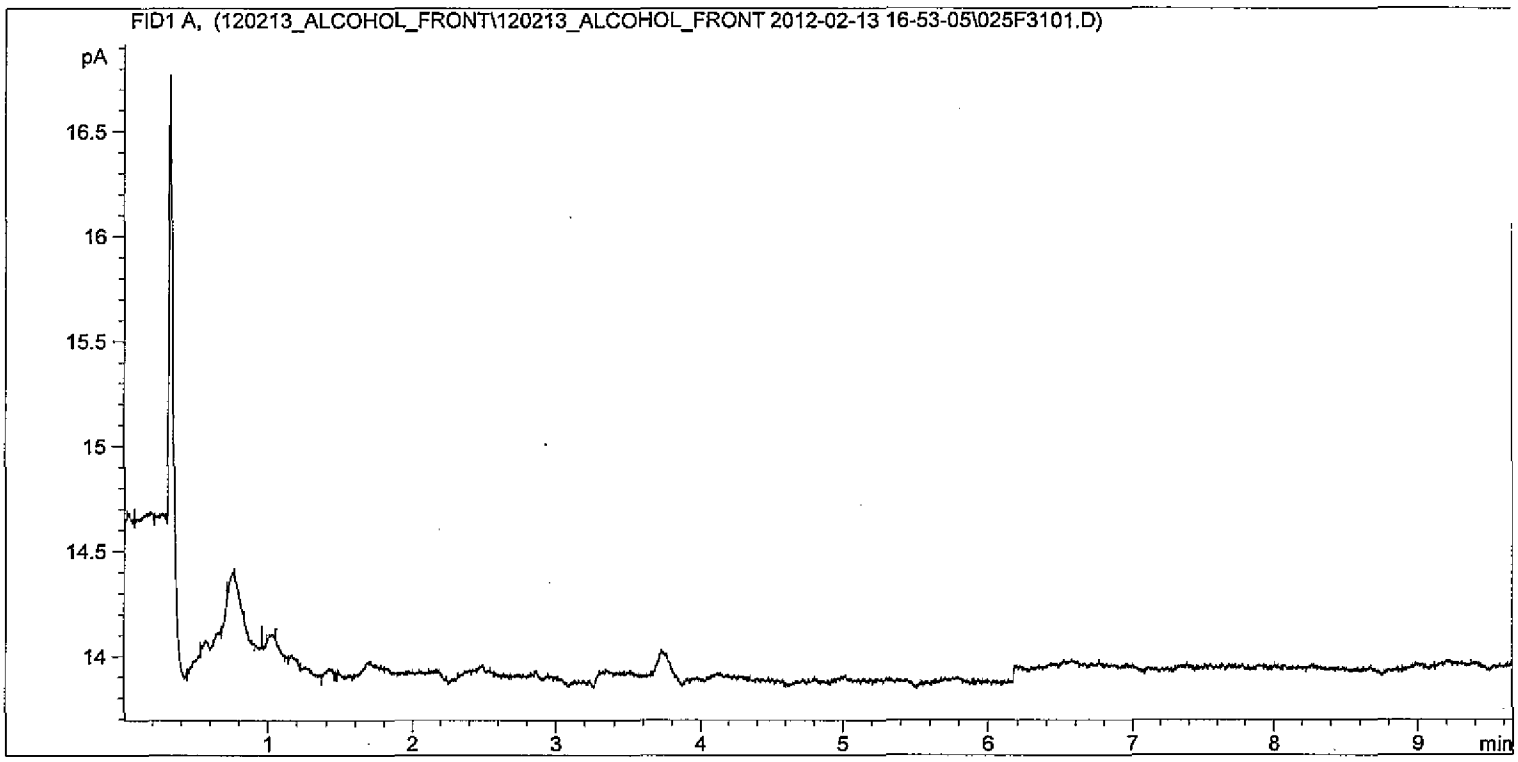
*** End of Report ***

Acm

Data File C:\CHEM32\...3_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\025F3101.D
Sample Name: 1202004-31

Acq. Operator	: ACM	Seq. Line :	31
Acq. Instrument	: AG3-6890N	Location :	Vial 25
Injection Date	: 2/13/2012 11:51:01 PM	Inj :	1
		Inj Volume :	1 µl
Acq. Method	: C:\CHEM32\1\DATA\120213_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\ALCOHOLS_FRONT.M		
Last changed	: 1/31/2012 7:43:47 AM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120213.M		
Last changed	: 2/16/2012 8:27:30 AM by ACM		
Method Info	: FID method for Alcohol analysis		



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/16/2012 8:27:21 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
1.515		-	-	-		Methanol
1.740		-	-	-		Ethanol
2.528		-	-	-		1-Propanol
2.761		-	-	-		2-Butanol
4.775		-	-	-		1-Butanol

N/D

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 : 2/16/2012 8:27:21 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	1.515		0.0000	0.00000	0.00000	Methanol
2	1.740		0.0000	0.00000	0.00000	Ethanol
3	2.528		0.0000	0.00000	0.00000	1-Propanol
4	2.761		0.0000	0.00000	0.00000	2-Butanol
5	4.775		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==========

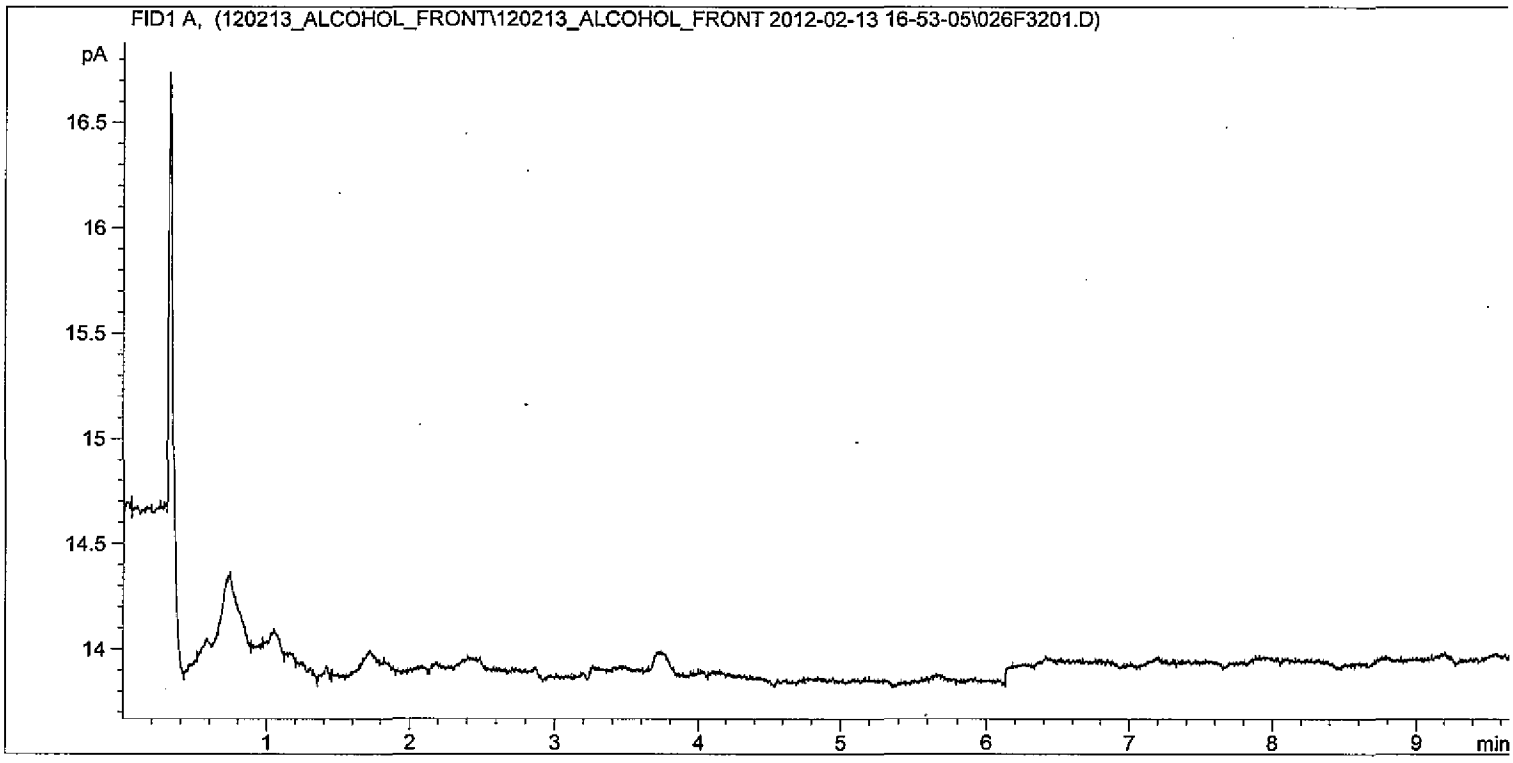
*** End of Report ***

ACM

Data File C:\CHEM32\...3_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\026F3201.D
Sample Name: 1202004-32

==========

Acq. Operator : ACM
Seq. Line : 32
Acq. Instrument : AG3-6890N
Location : Vial 26
Injection Date : 2/14/2012 12:04:50 AM
Inj : 1
Inj Volume : 1 µl
Acq. Method : C:\CHEM32\1\DATA\120213_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120213.M
Last changed : 2/16/2012 8:27:30 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 : 2/16/2012 8:27:21 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
1.515		-	-	-		Methanol
1.740		-	-	-		Ethanol
2.528		-	-	-		1-Propanol
2.761		-	-	-		2-Butanol
4.775		-	-	-		1-Butanol

N/D

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 : 2/16/2012 8:27:21 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	1.515		0.0000	0.00000	0.00000	Methanol
2	1.740		0.0000	0.00000	0.00000	Ethanol
3	2.528		0.0000	0.00000	0.00000	1-Propanol
4	2.761		0.0000	0.00000	0.00000	2-Butanol
5	4.775		0.0000	0.00000	0.00000	1-Butanol

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

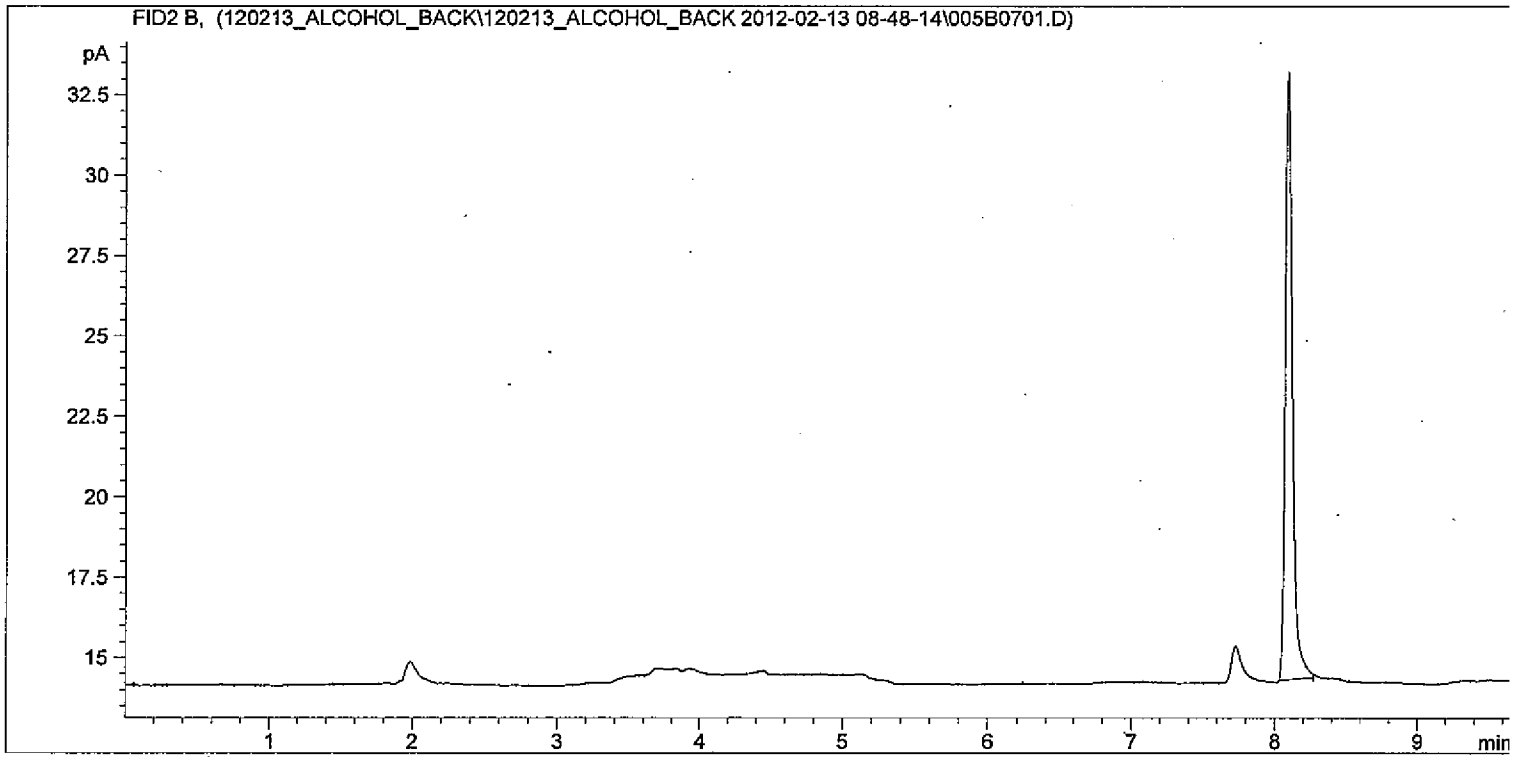
==========
*** End of Report ***

ACM

Data File C:\CHEM32\...213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\005B0701.D
Sample Name: 1202004-01

==========

Acq. Operator : ACM
Seq. Line : 7
Acq. Instrument : AG3-6890N
Location : Vial 5
Injection Date : 2/13/2012 10:13:36 AM
Inj : 1
Inj Volume : 0.8 µl
Acq. Method : C:\CHEM32\1\DATA\120213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120213.M
Last changed : 2/16/2012 8:53:24 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 : 2/15/2012 3:48:43 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
2.217		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.079		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N/D

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 : 2/15/2012 3:48:43 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	2.217		0.0000	0.00000	0.00000	Methanol
2	2.425		0.0000	0.00000	0.00000	Ethanol
3	3.079		0.0000	0.00000	0.00000	1-Propanol
4	3.401		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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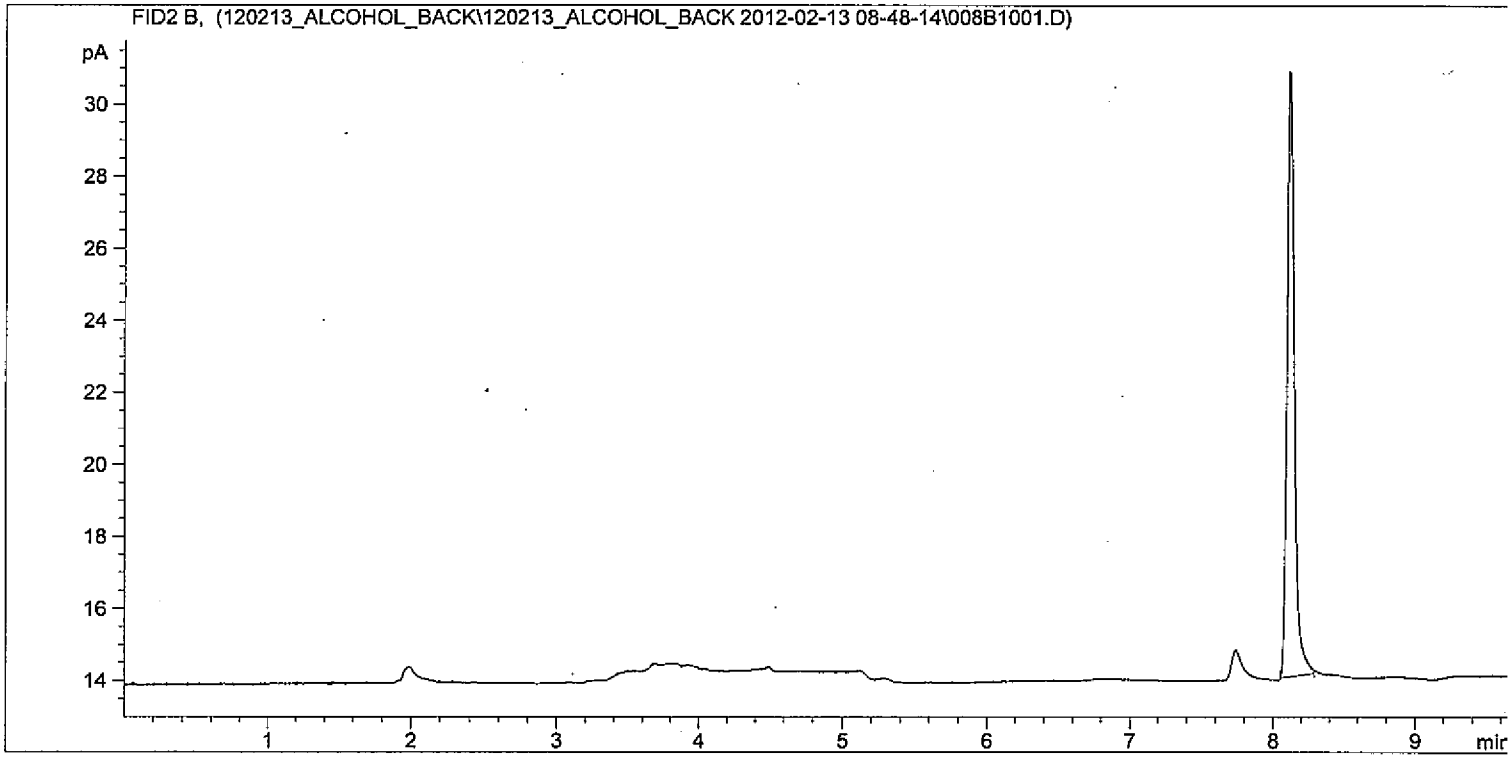
*** End of Report ***

Am

Data File C:\CHEM32\...213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\008B1001.D
Sample Name: 1202004-03

==========

Acq. Operator : ACM
Seq. Line : 10
Acq. Instrument : AG3-6890N
Location : Vial 8
Injection Date : 2/13/2012 10:54:44 AM
Inj : 1
Inj Volume : 0.8 µl
Acq. Method : C:\CHEM32\1\DATA\120213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120213.M
Last changed : 2/16/2012 8:53:24 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 : 2/15/2012 3:48:43 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		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.079		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N/D

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 : 2/15/2012 3:48:43 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	2.217		0.0000	0.00000	0.00000	Methanol
2	2.425		0.0000	0.00000	0.00000	Ethanol
3	3.079		0.0000	0.00000	0.00000	1-Propanol
4	3.401		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

==========

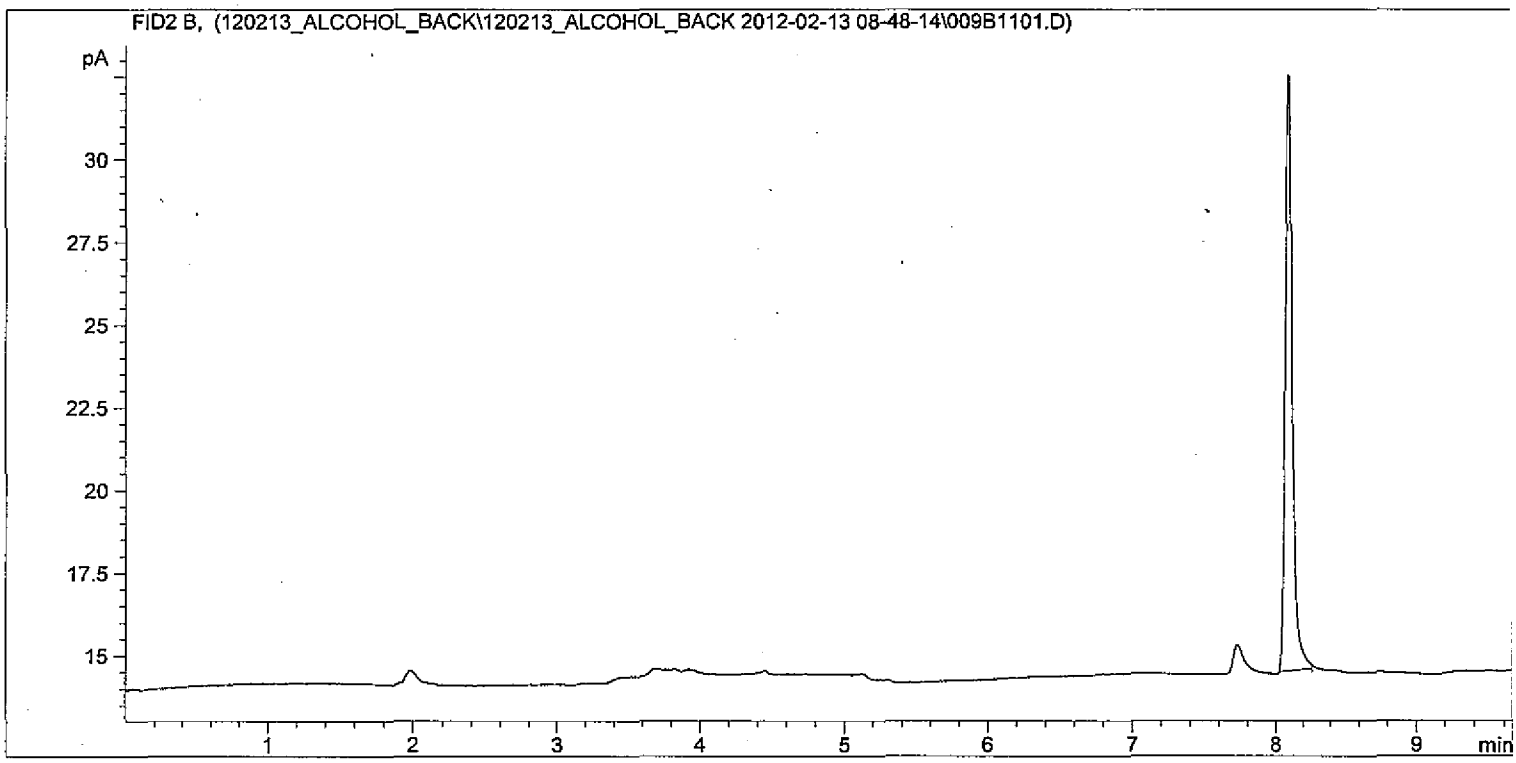
*** End of Report ***

Am

Data File C:\CHEM32\...213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\009B1101.D
Sample Name: 1202004-06

==========

Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 2/13/2012 11:08:28 AM
Seq. Line : 11
Location : Vial 9
Inj : 1
Inj Volume : 0.8 µl
Acq. Method : C:\CHEM32\1\DATA\120213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120213.M
Last changed : 2/16/2012 8:53:24 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 : 2/15/2012 3:48:43 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
2.217		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.079		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N/D

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 : 2/15/2012 3:48:43 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	2.217		0.0000	0.00000	0.00000	Methanol
2	2.425		0.0000	0.00000	0.00000	Ethanol
3	3.079		0.0000	0.00000	0.00000	1-Propanol
4	3.401		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

==========

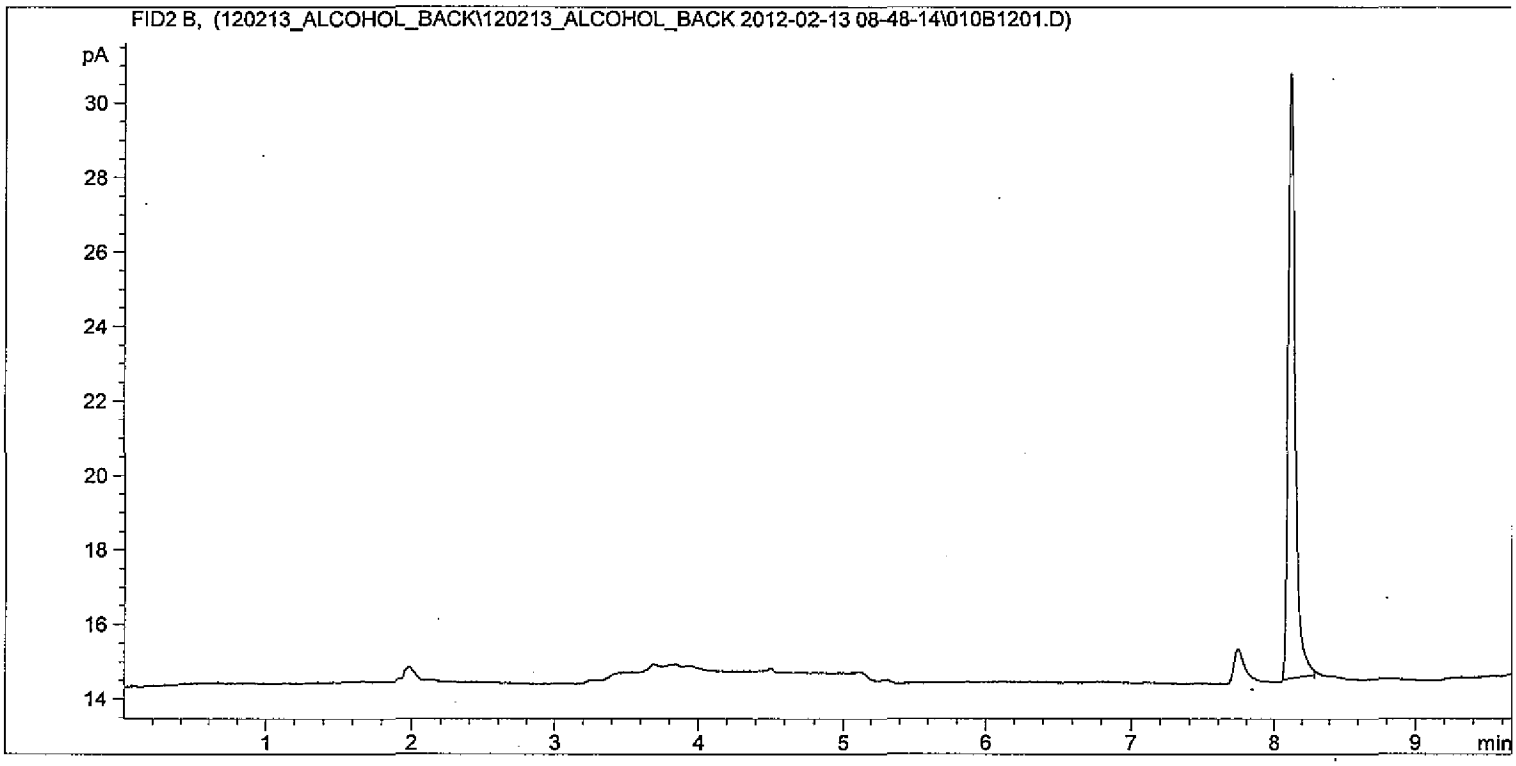
*** End of Report ***

Acm

Data File C:\CHEM32\...213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\010B1201.D
Sample Name: 1202004-08

==========

Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 2/13/2012 11:22:13 AM
Seq. Line : 12
Location : Vial 10
Inj : 1
Inj Volume : 0.8 µl
Acq. Method : C:\CHEM32\1\DATA\120213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120213.M
Last changed : 2/16/2012 8:53:24 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 : 2/15/2012 3:48:43 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		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.079		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N/D

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 : 2/15/2012 3:48:43 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	2.217		0.0000	0.00000	0.00000	Methanol
2	2.425		0.0000	0.00000	0.00000	Ethanol
3	3.079		0.0000	0.00000	0.00000	1-Propanol
4	3.401		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

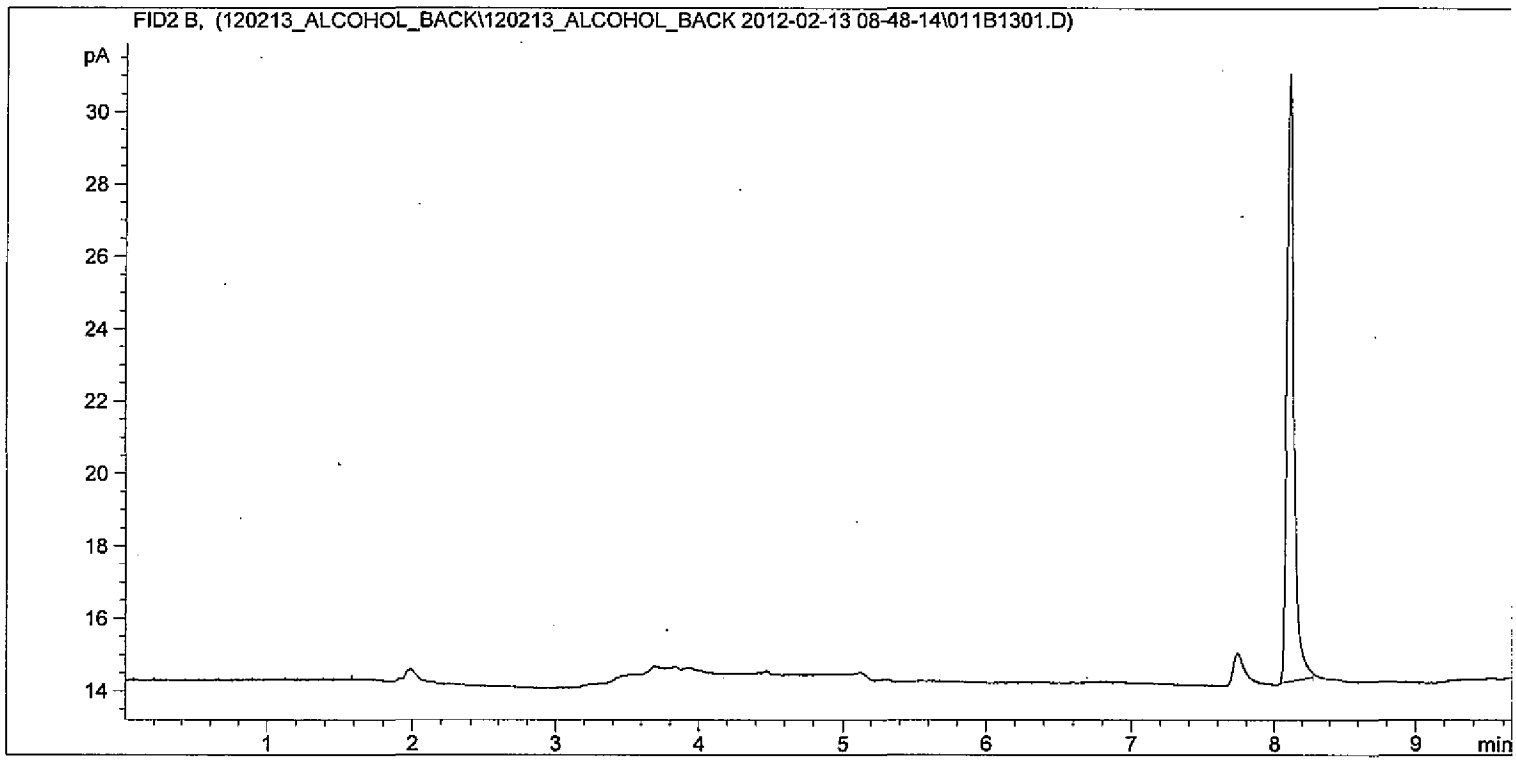
==========

*** End of Report ***

ACM

Data File C:\CHEM32\...213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\011B1301.D
Sample Name: 1202004-11

Acq. Operator	: ACM	Seq. Line :	13
Acq. Instrument	: AG3-6890N	Location :	Vial 11
Injection Date	: 2/13/2012 11:35:56 AM	Inj :	1
		Inj Volume :	0.8 µl
Acq. Method	: C:\CHEM32\1\DATA\120213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\ALCOHOLS_BACK.M		
Last changed	: 1/27/2012 3:30:25 PM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120213.M		
Last changed	: 2/16/2012 8:53:24 AM by ACM		
Method Info	: FID method for Alcohol analysis		



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/15/2012 3:48:43 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		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.079		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N/D

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 : 2/15/2012 3:48:43 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	2.217		0.0000	0.00000	0.00000	Methanol
2	2.425		0.0000	0.00000	0.00000	Ethanol
3	3.079		0.0000	0.00000	0.00000	1-Propanol
4	3.401		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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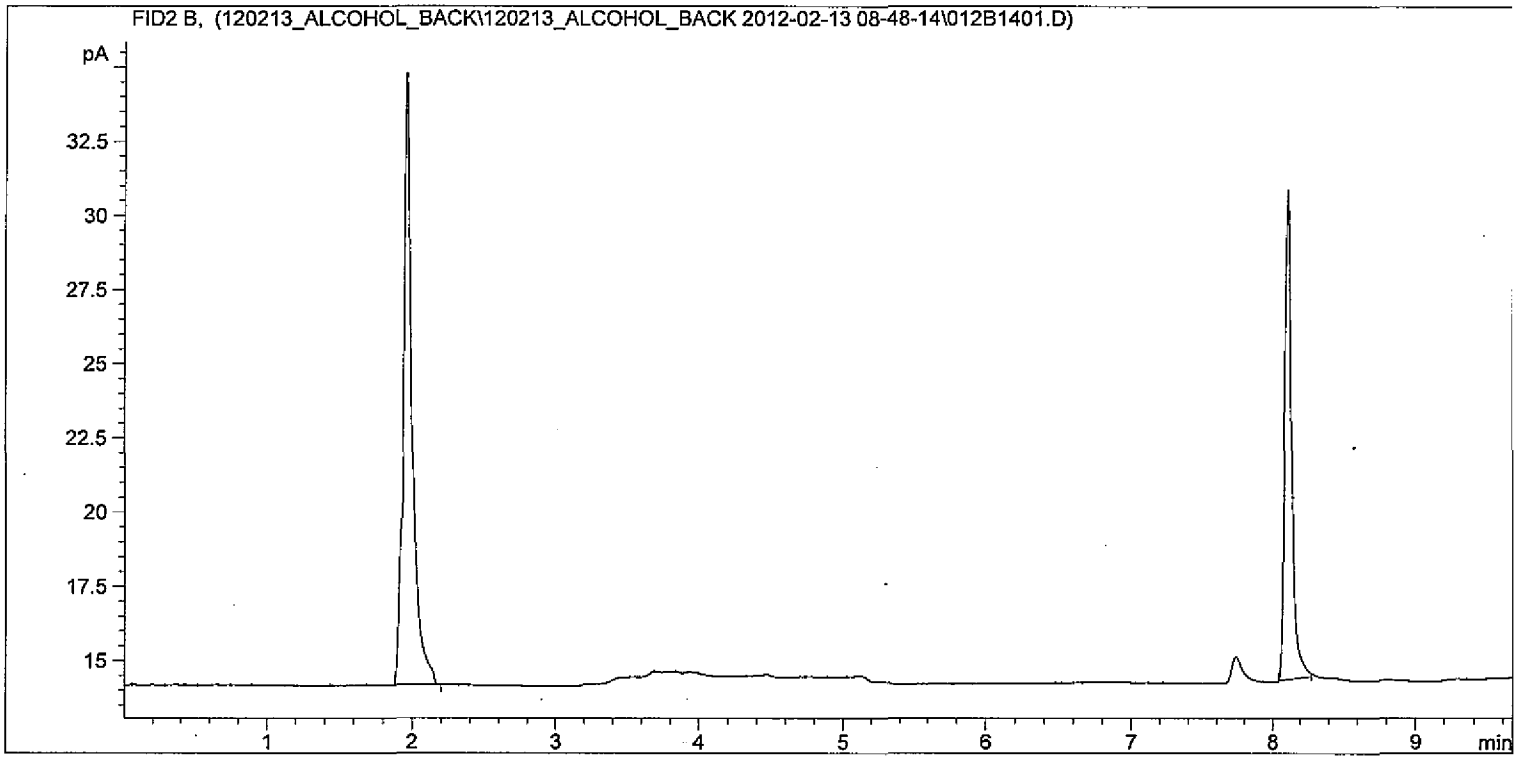
*** End of Report ***

Acm

Data File C:\CHEM32\...213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\012B1401.D
Sample Name: 1202004-13

Acq. Operator	: ACM	Seq. Line :	14
Acq. Instrument	: AG3-6890N	Location :	Vial 12
Injection Date	: 2/13/2012 11:49:40 AM	Inj :	1
		Inj Volume :	0.8 µl
Acq. Method	: C:\CHEM32\1\DATA\120213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\ALCOHOLS_BACK.M		
Last changed	: 1/27/2012 3:30:25 PM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120213.M		
Last changed	: 2/16/2012 8:53:24 AM by ACM		
Method Info	: FID method for Alcohol analysis		



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/15/2012 3:48:43 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		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.079		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N/D

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 : 2/15/2012 3:48:43 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	2.217		0.0000	0.00000	0.00000	Methanol
2	2.425		0.0000	0.00000	0.00000	Ethanol
3	3.079		0.0000	0.00000	0.00000	1-Propanol
4	3.401		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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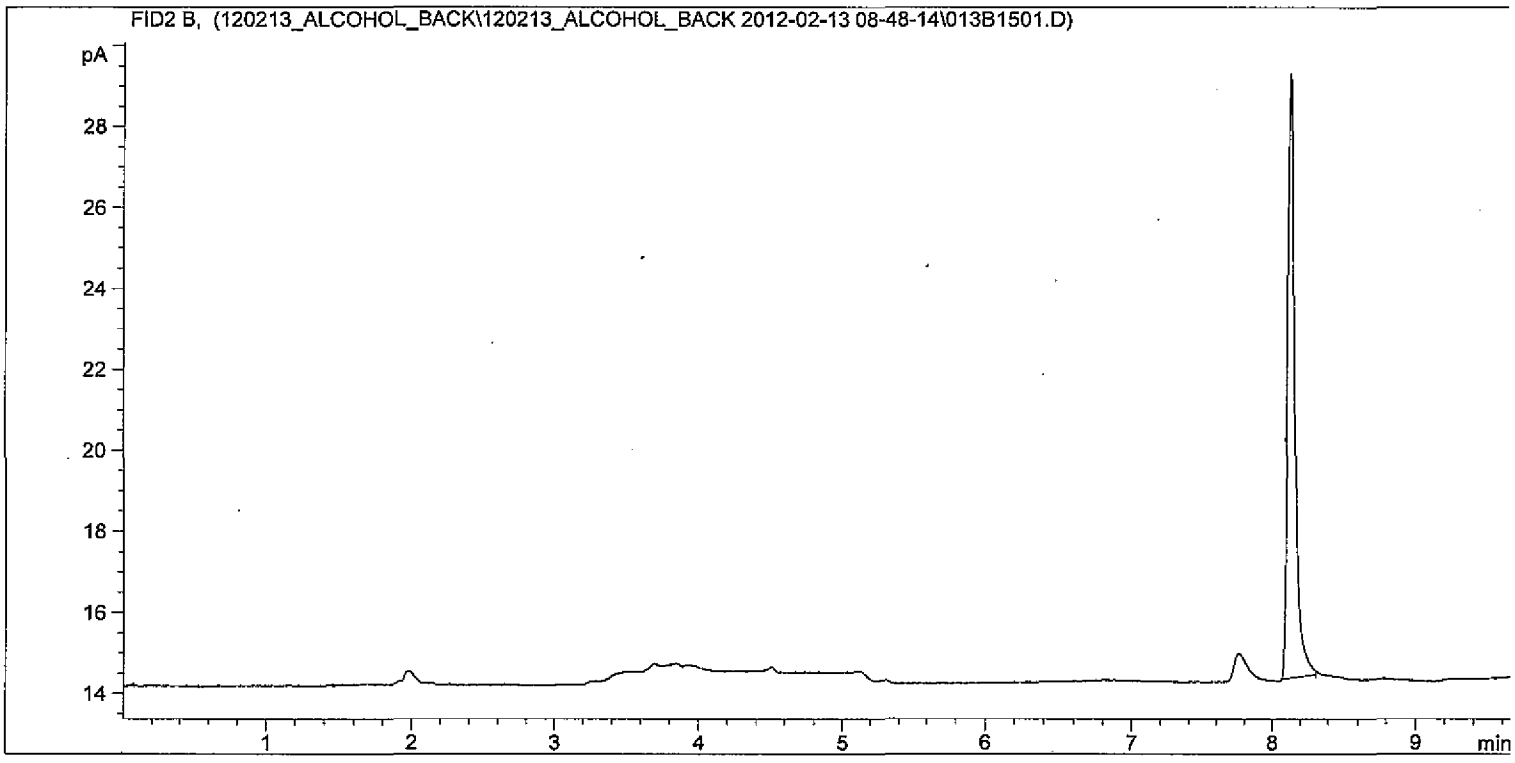
*** End of Report ***

Acm

Data File C:\CHEM32\...213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\013B1501.D
Sample Name: 1202004-15

==========

Acq. Operator : ACM
Seq. Line : 15
Acq. Instrument : AG3-6890N
Location : Vial 13
Injection Date : 2/13/2012 12:03:24 PM
Inj : 1
Inj Volume : 0.8 µl
Acq. Method : C:\CHEM32\1\DATA\120213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120213.M
Last changed : 2/16/2012 8:53:24 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 : 2/15/2012 3:48:43 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		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.079		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N/D

Data File C:\CHEM32\...213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\013B1501.D
Sample Name: 1202004-15

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 : 2/15/2012 3:48:43 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	2.217		0.0000	0.00000	0.00000	Methanol
2	2.425		0.0000	0.00000	0.00000	Ethanol
3	3.079		0.0000	0.00000	0.00000	1-Propanol
4	3.401		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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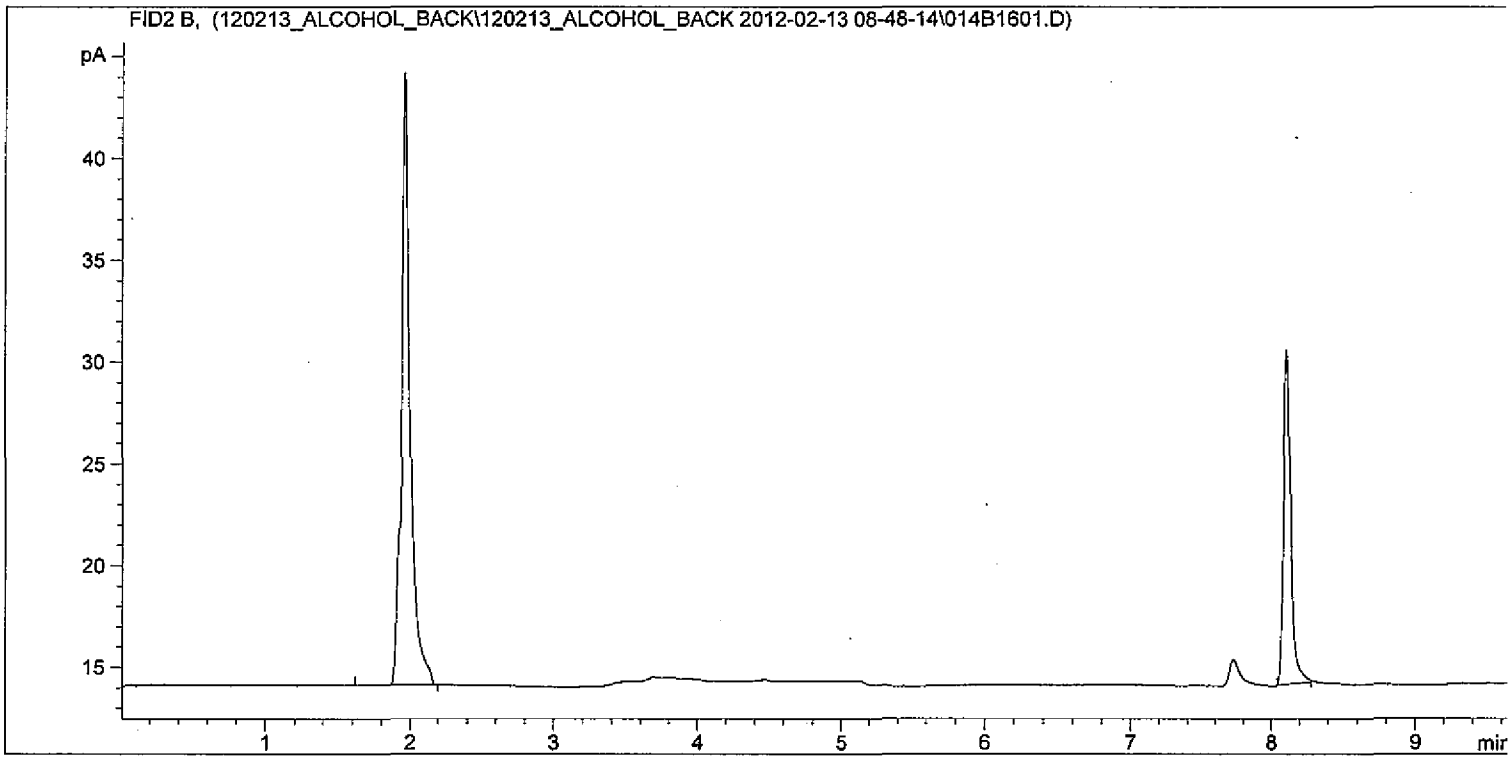
*** End of Report ***

Acm

Data File C:\CHEM32\...213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\014B1601.D
Sample Name: 1202004-17

==========

Acq. Operator : ACM
Seq. Line : 16
Acq. Instrument : AG3-6890N
Location : Vial 14
Injection Date : 2/13/2012 12:17:07 PM
Inj : 1
Inj Volume : 0.8 µl
Acq. Method : C:\CHEM32\1\DATA\120213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120213.M
Last changed : 2/16/2012 8:53:24 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 : 2/15/2012 3:48:43 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		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.079		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N|D

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 : 2/15/2012 3:48:43 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	2.217		0.0000	0.00000	0.00000	Methanol
2	2.425		0.0000	0.00000	0.00000	Ethanol
3	3.079		0.0000	0.00000	0.00000	1-Propanol
4	3.401		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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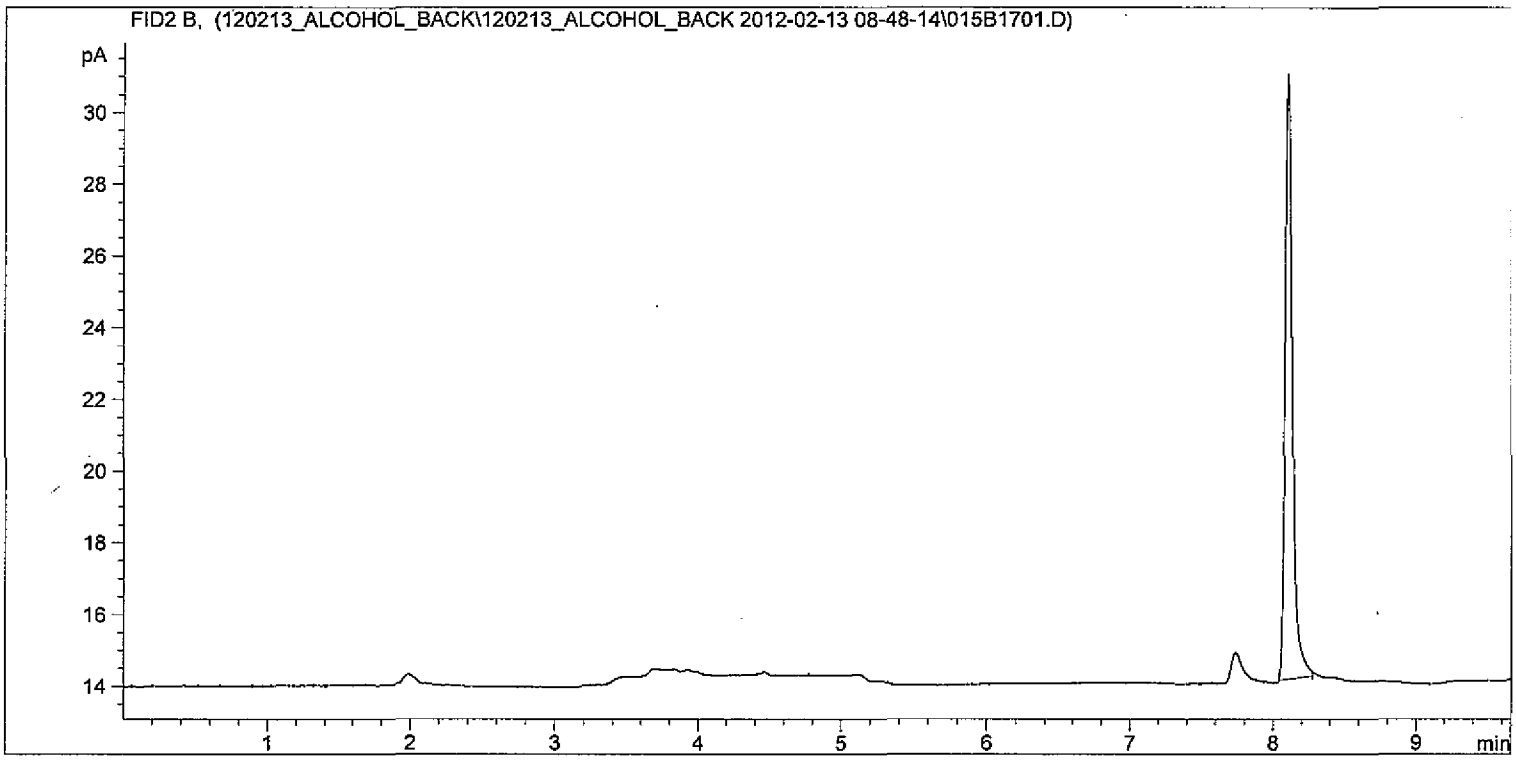
*** End of Report ***

ACM

Data File C:\CHEM32\...213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\015B1701.D
Sample Name: 1202004-21

==========

Acq. Operator : ACM
Seq. Line : 17
Acq. Instrument : AG3-6890N
Location : Vial 15
Injection Date : 2/13/2012 12:30:51 PM
Inj : 1
Inj Volume : 0.8 µl
Acq. Method : C:\CHEM32\1\DATA\120213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120213.M
Last changed : 2/16/2012 8:53:24 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 : 2/15/2012 3:48:43 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		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.079		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N/D

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 : 2/15/2012 3:48:43 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	2.217		0.0000	0.00000	0.00000	Methanol
2	2.425		0.0000	0.00000	0.00000	Ethanol
3	3.079		0.0000	0.00000	0.00000	1-Propanol
4	3.401		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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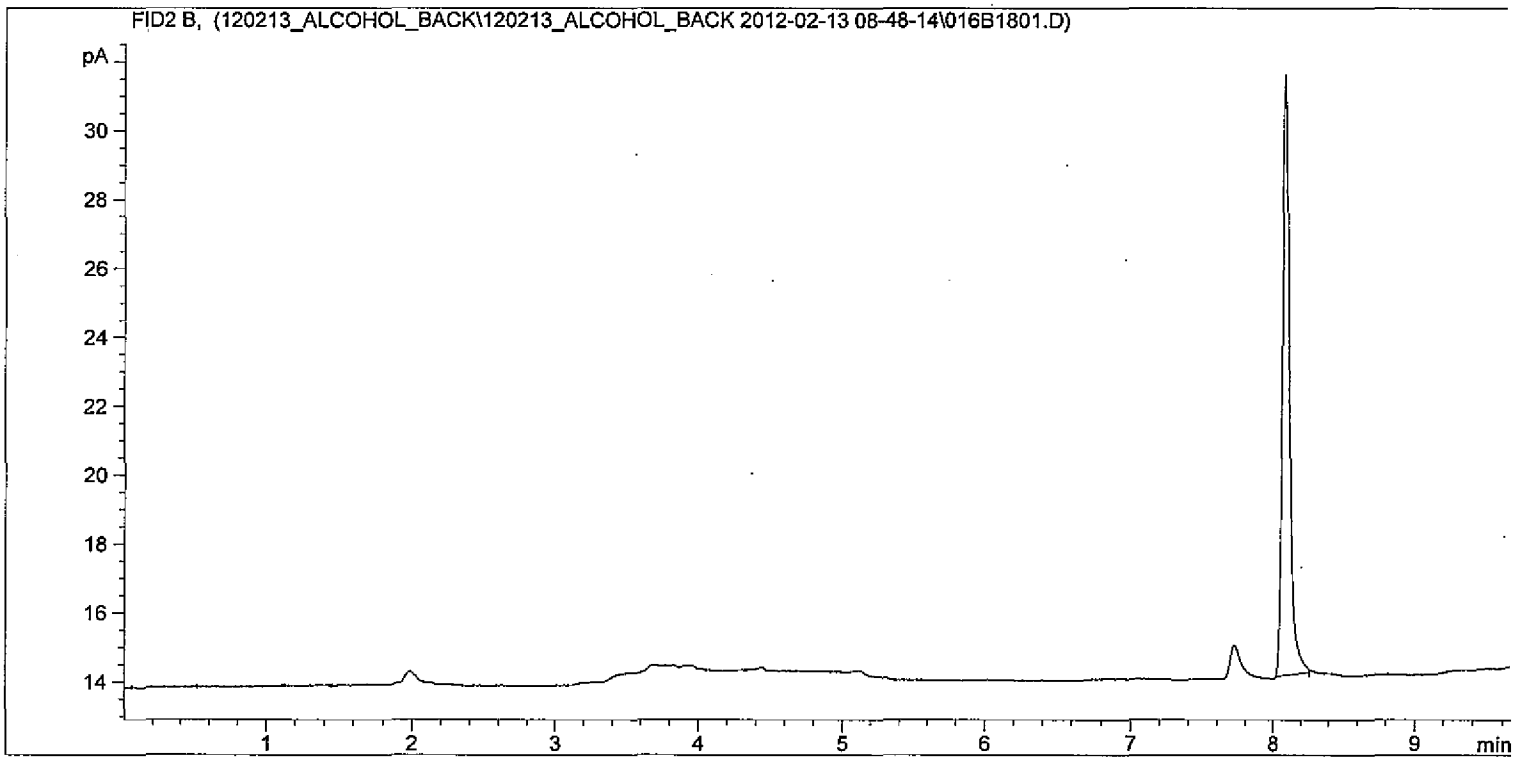
*** End of Report ***

ACM

Data File C:\CHEM32\...213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\016B1801.D
Sample Name: 1202004-22

==========

Acq. Operator : ACM
Seq. Line : 18
Acq. Instrument : AG3-6890N
Location : Vial 16
Injection Date : 2/13/2012 12:44:35 PM
Inj : 1
Inj Volume : 0.8 µl
Acq. Method : C:\CHEM32\1\DATA\120213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120213.M
Last changed : 2/16/2012 8:53:24 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 : 2/15/2012 3:48:43 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		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.079		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N/D

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 : 2/15/2012 3:48:43 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	2.217		0.0000	0.00000	0.00000	Methanol
2	2.425		0.0000	0.00000	0.00000	Ethanol
3	3.079		0.0000	0.00000	0.00000	1-Propanol
4	3.401		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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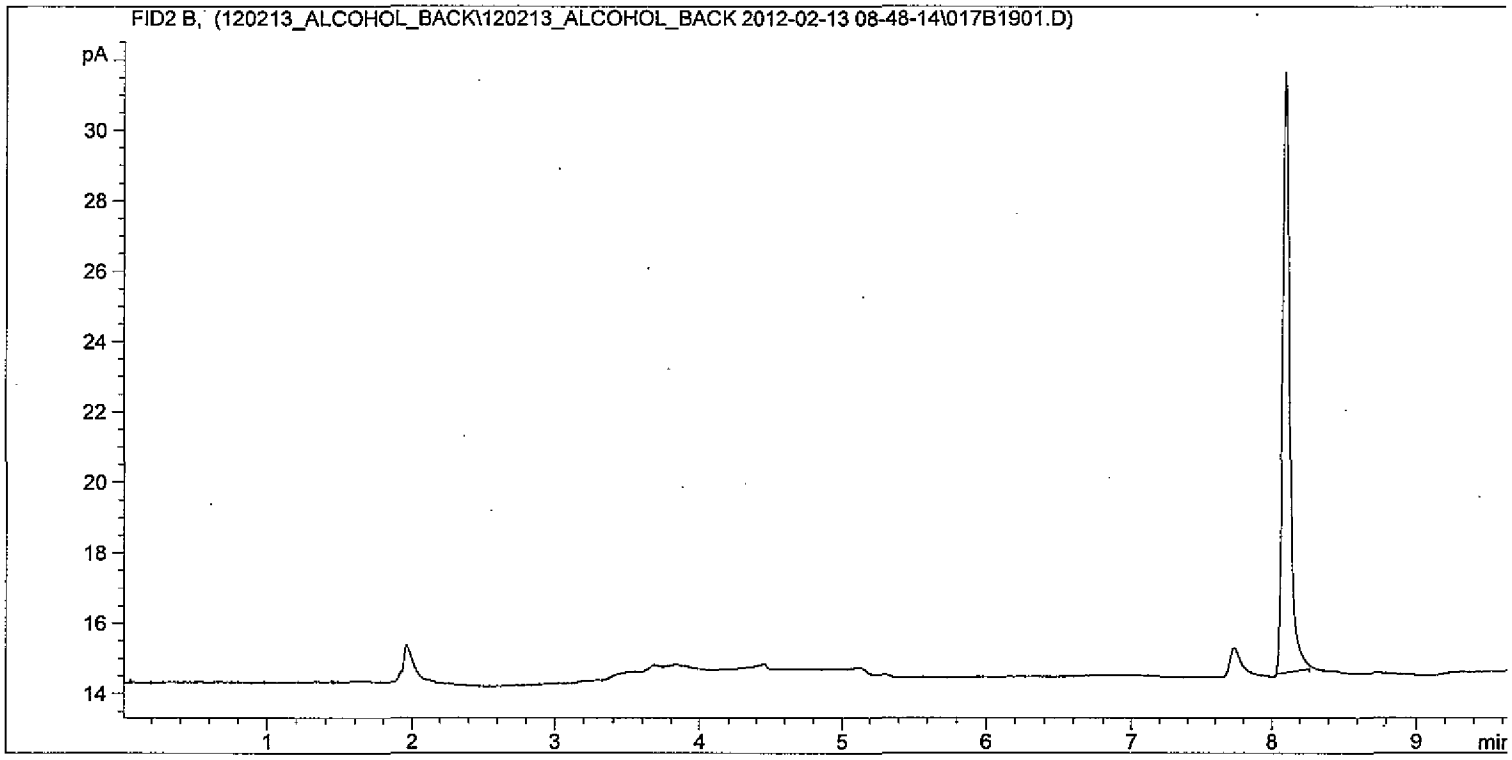
*** End of Report ***

Acm

Data File C:\CHEM32\...213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\017B1901.D
Sample Name: 1202004-23

==========

Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 2/13/2012 12:58:19 PM
Seq. Line : 19
Location : Vial 17
Inj : 1
Inj Volume : 0.8 µl
Acq. Method : C:\CHEM32\1\DATA\120213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120213.M
Last changed : 2/16/2012 8:53:24 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 : 2/15/2012 3:48:43 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		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.079		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N/D

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 : 2/15/2012 3:48:43 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	2.217		0.0000	0.00000	0.00000	Methanol
2	2.425		0.0000	0.00000	0.00000	Ethanol
3	3.079		0.0000	0.00000	0.00000	1-Propanol
4	3.401		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

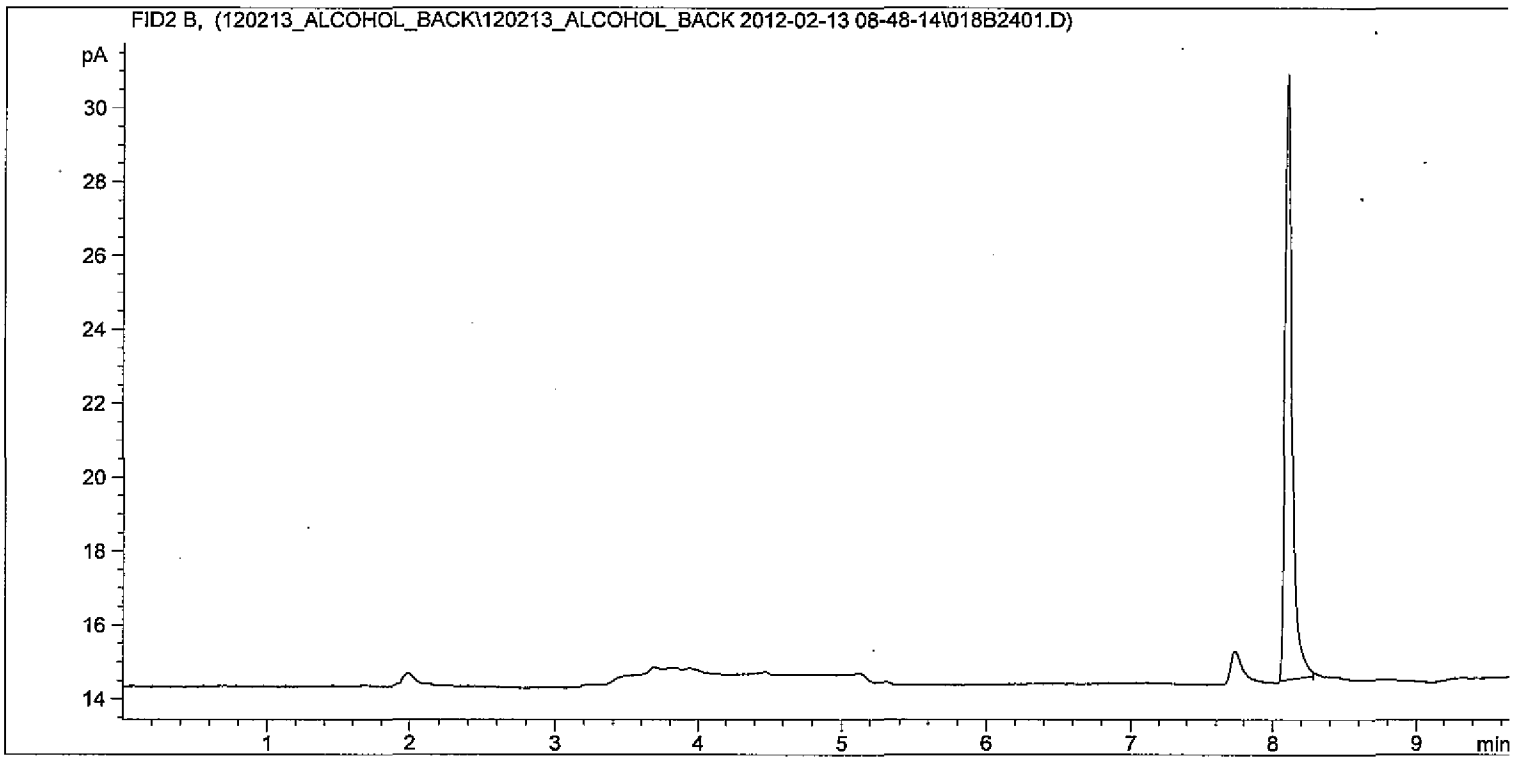
==========

*** End of Report ***

ACM

Data File C:\CHEM32\...213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\018B2401.D
Sample Name: 1202004-24

Acq. Operator	: ACM	Seq. Line :	24
Acq. Instrument	: AG3-6890N	Location :	Vial 18
Injection Date	: 2/13/2012 2:06:56 PM	Inj :	1
		Inj Volume :	0.8 µl
Acq. Method	: C:\CHEM32\1\DATA\120213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\ALCOHOLS_BACK.M		
Last changed	: 1/27/2012 3:30:25 PM by ACM		
Analysis Method	: C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120213.M		
Last changed	: 2/16/2012 8:53:24 AM by ACM		
Method Info	: FID method for Alcohol analysis		



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/15/2012 3:48:43 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		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.079		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N/D

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 : 2/15/2012 3:48:43 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	2.217		0.0000	0.00000	0.00000	Methanol
2	2.425		0.0000	0.00000	0.00000	Ethanol
3	3.079		0.0000	0.00000	0.00000	1-Propanol
4	3.401		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

==========

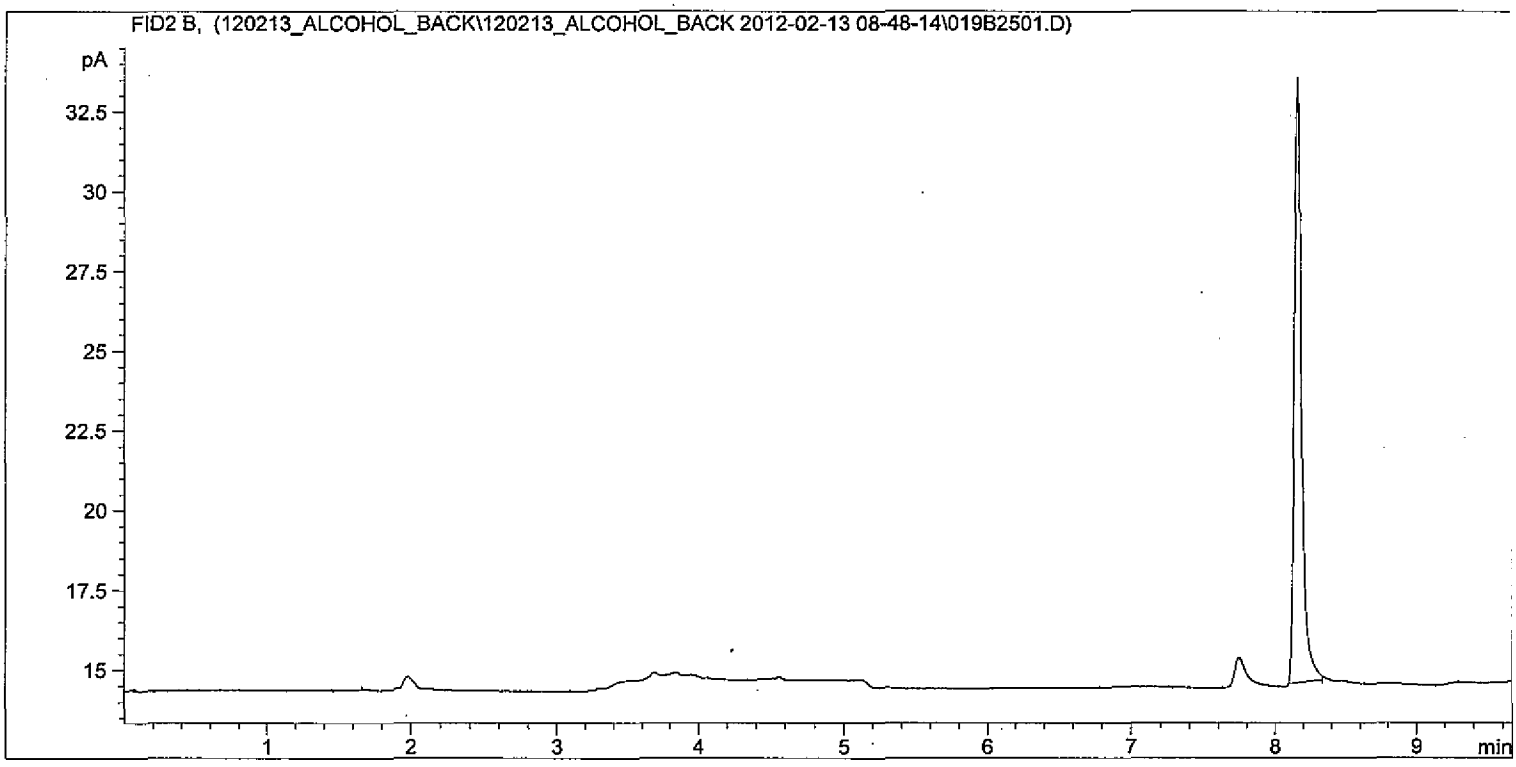
*** End of Report ***

Acm

Data File C:\CHEM32\...213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\019B2501.D
Sample Name: 1202004-25

==========

Acq. Operator : ACM
Seq. Line : 25
Acq. Instrument : AG3-6890N
Location : Vial 19
Injection Date : 2/13/2012 2:20:39 PM
Inj : 1
Inj Volume : 0.8 µl
Acq. Method : C:\CHEM32\1\DATA\120213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120213.M
Last changed : 2/16/2012 8:53:24 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 : 2/15/2012 3:48:43 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		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.079		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N/D

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 : 2/15/2012 3:48:43 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	2.217		0.0000	0.00000	0.00000	Methanol
2	2.425		0.0000	0.00000	0.00000	Ethanol
3	3.079		0.0000	0.00000	0.00000	1-Propanol
4	3.401		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

==========

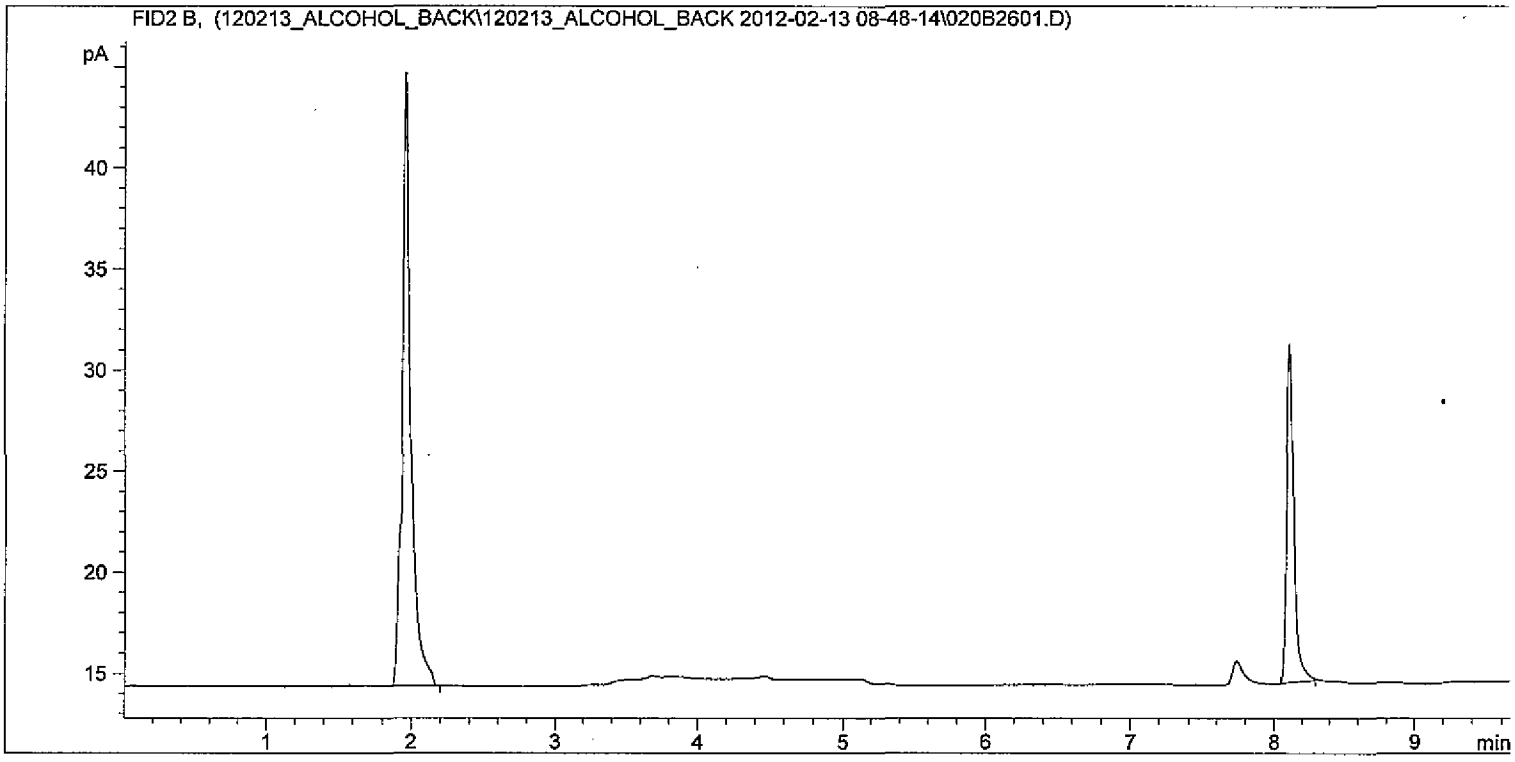
*** End of Report ***

ACM

Data File C:\CHEM32\...213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\020B2601.D
Sample Name: 1202004-26

Acq. Operator	: ACM	Seq. Line	: 26
Acq. Instrument	: AG3-6890N	Location	: Vial 20
Injection Date	: 2/13/2012 2:34:22 PM	Inj	: 1
		Inj Volume	: 0.8 µl

Acq. Method : C:\CHEM32\1\DATA\120213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120213.M
Last changed : 2/16/2012 8:53:24 AM by ACM
Method Info : FID method for Alcohol analysis



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/15/2012 3:48:43 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		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.079		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N|D

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 : 2/15/2012 3:48:43 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	2.217		0.0000	0.00000	0.00000	Methanol
2	2.425		0.0000	0.00000	0.00000	Ethanol
3	3.079		0.0000	0.00000	0.00000	1-Propanol
4	3.401		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

==========

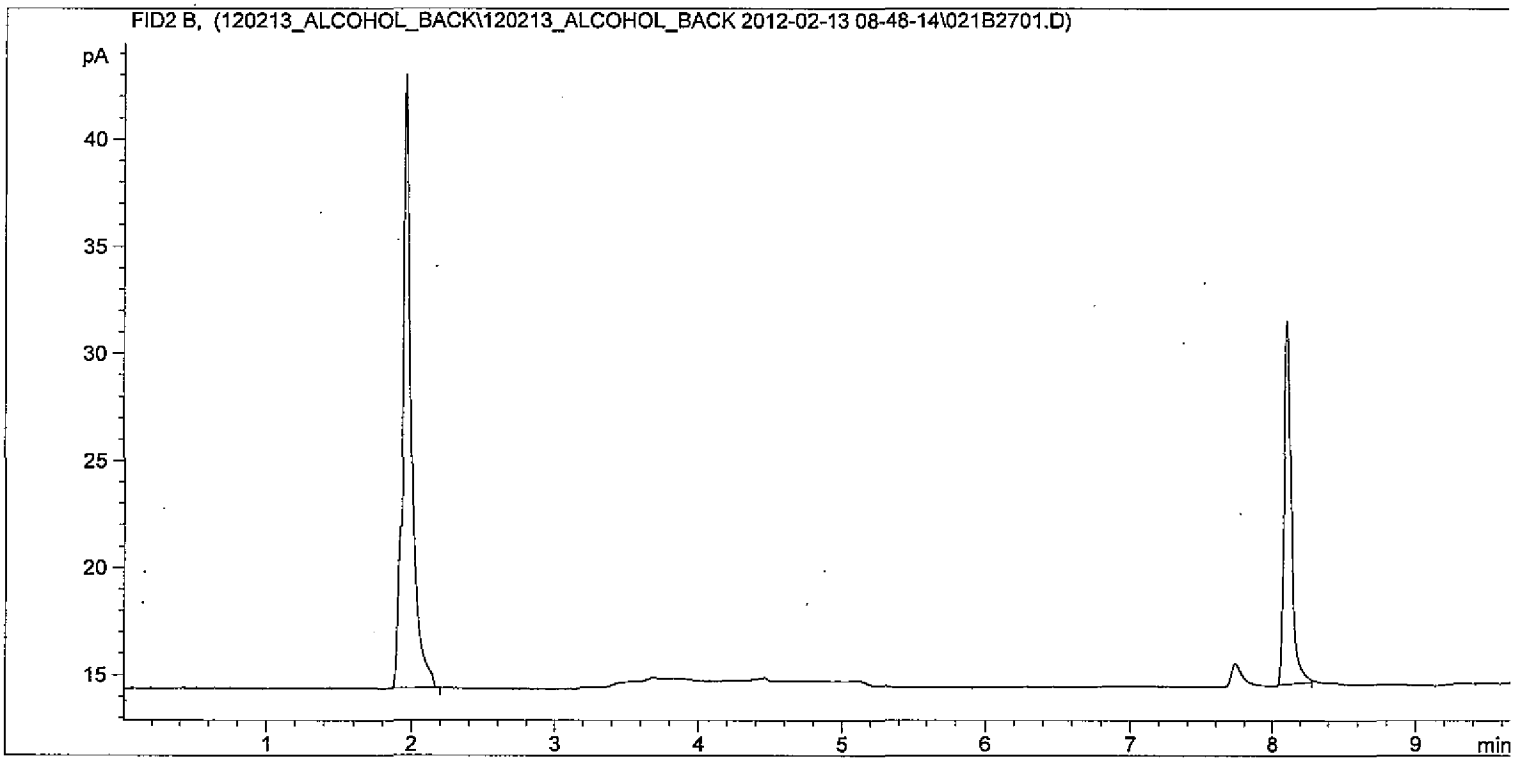
*** End of Report ***

ACM

Data File C:\CHEM32\...213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\021B2701.D
Sample Name: 1202004-27

==========

Acq. Operator : ACM
Seq. Line : 27
Acq. Instrument : AG3-6890N
Location : Vial 21
Injection Date : 2/13/2012 2:48:05 PM
Inj : 1
Inj Volume : 0.8 µl
Acq. Method : C:\CHEM32\1\DATA\120213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120213.M
Last changed : 2/16/2012 8:53:24 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 : 2/15/2012 3:48:43 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		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.079		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N/D

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 : 2/15/2012 3:48:43 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	2.217		0.0000	0.00000	0.00000	Methanol
2	2.425		0.0000	0.00000	0.00000	Ethanol
3	3.079		0.0000	0.00000	0.00000	1-Propanol
4	3.401		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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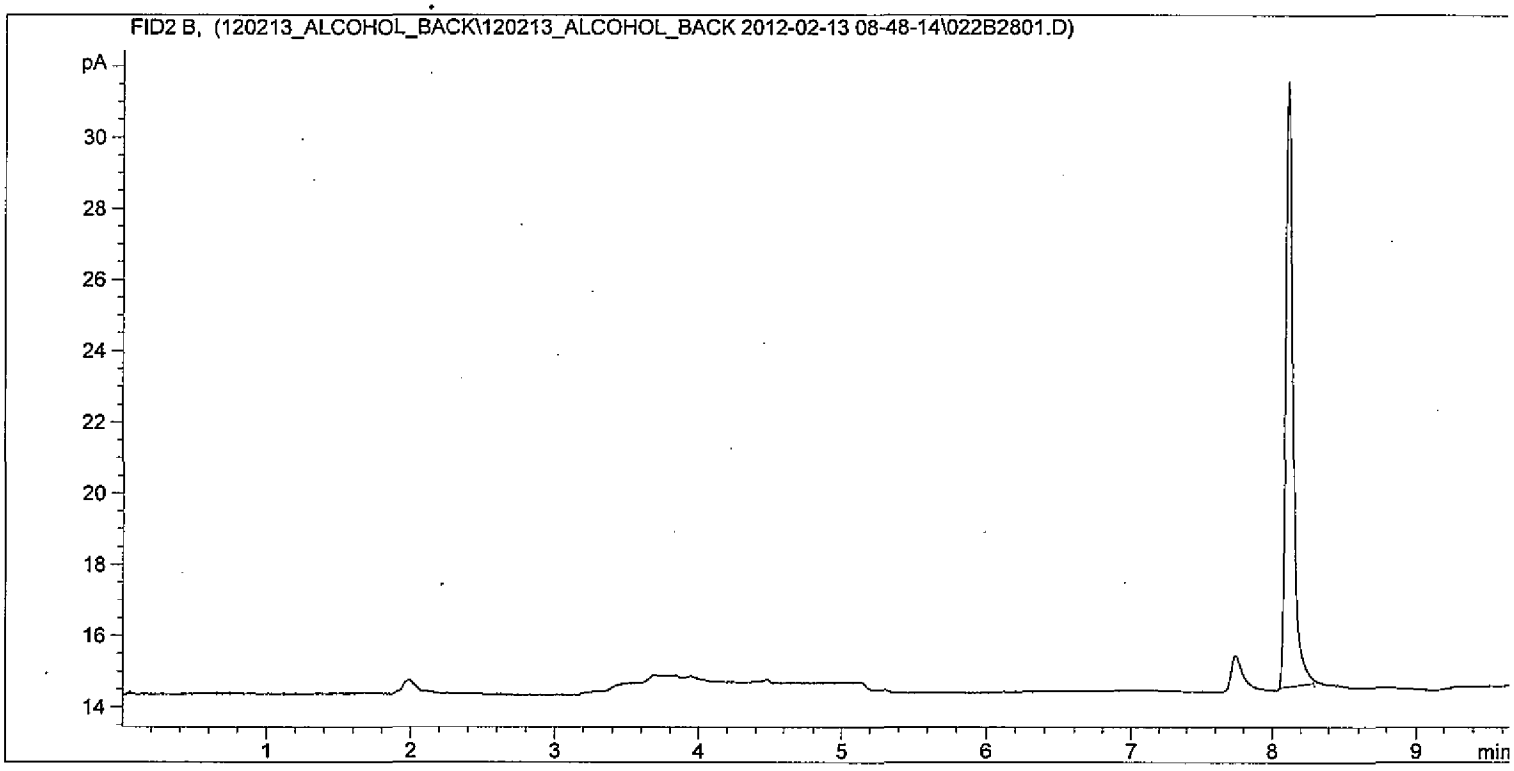
*** End of Report ***

ACM

Data File C:\CHEM32\...213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\022B2801.D
Sample Name: 1202004-28

Acq. Operator	: ACM	Seq. Line	: 28
Acq. Instrument	: AG3-6890N	Location	: Vial 22
Injection Date	: 2/13/2012 3:01:49 PM	Inj	: 1
		Inj Volume	: 0.8 µl

Acq. Method : C:\CHEM32\1\DATA\120213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120213.M
Last changed : 2/16/2012 8:53:24 AM by ACM
Method Info : FID method for Alcohol analysis



External Standard Report

Sorted By : Signal
Calib. Data Modified : 2/15/2012 3:48:43 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		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.079		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

ND

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 : 2/15/2012 3:48:43 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	2.217		0.0000	0.00000	0.00000	Methanol
2	2.425		0.0000	0.00000	0.00000	Ethanol
3	3.079		0.0000	0.00000	0.00000	1-Propanol
4	3.401		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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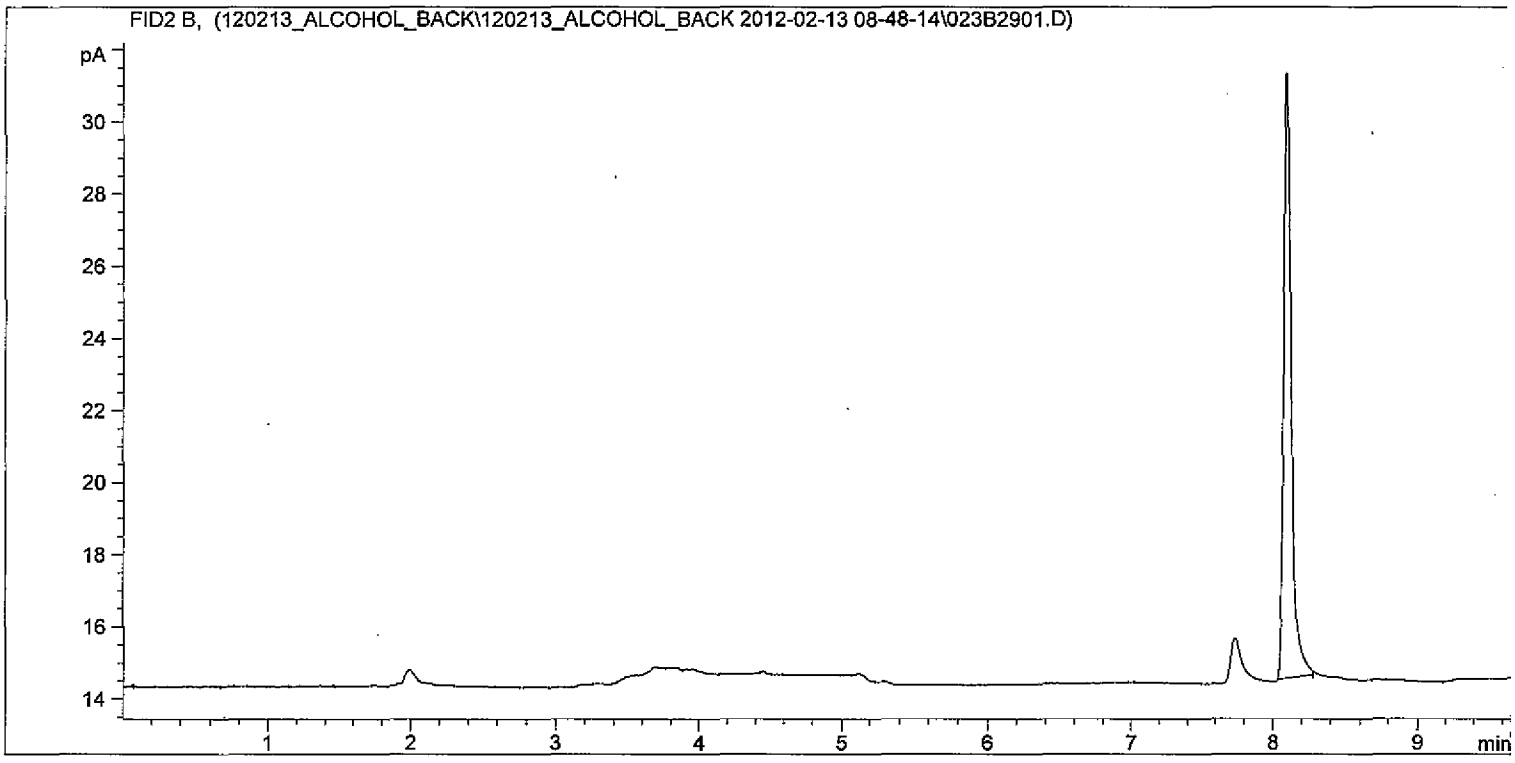
*** End of Report ***

ACM

Data File C:\CHEM32\...213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\023B2901.D
Sample Name: 1202004-29

==========

Acq. Operator : ACM
Seq. Line : 29
Acq. Instrument : AG3-6890N
Location : Vial 23
Injection Date : 2/13/2012 3:15:29 PM
Inj : 1
Inj Volume : 0.8 µl
Acq. Method : C:\CHEM32\1\DATA\120213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120213.M
Last changed : 2/16/2012 8:53:24 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 : 2/15/2012 3:48:43 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		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.079		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N/D

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 : 2/15/2012 3:48:43 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	2.217		0.0000	0.00000	0.00000	Methanol
2	2.425		0.0000	0.00000	0.00000	Ethanol
3	3.079		0.0000	0.00000	0.00000	1-Propanol
4	3.401		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

==========

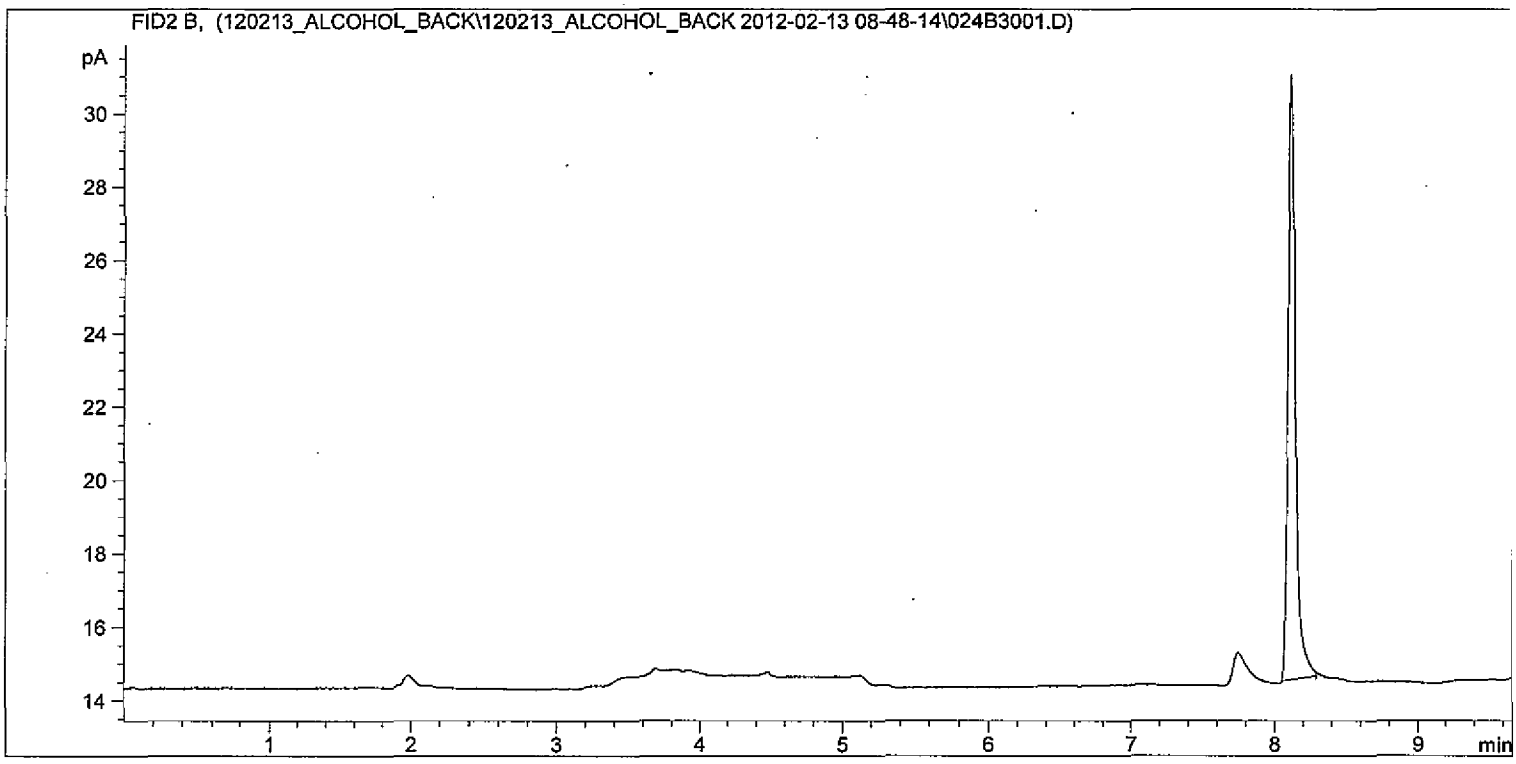
*** End of Report ***

ACM

Data File C:\CHEM32\...213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\024B3001.D
Sample Name: 1202004-30

==========

Acq. Operator : ACM
Seq. Line : 30
Acq. Instrument : AG3-6890N
Location : Vial 24
Injection Date : 2/13/2012 3:29:13 PM
Inj : 1
Inj Volume : 0.8 µl
Acq. Method : C:\CHEM32\1\DATA\120213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120213.M
Last changed : 2/16/2012 8:53:24 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 : 2/15/2012 3:48:43 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		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.079		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N/D

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 : 2/15/2012 3:48:43 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	2.217		0.0000	0.00000	0.00000	Methanol
2	2.425		0.0000	0.00000	0.00000	Ethanol
3	3.079		0.0000	0.00000	0.00000	1-Propanol
4	3.401		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

==========

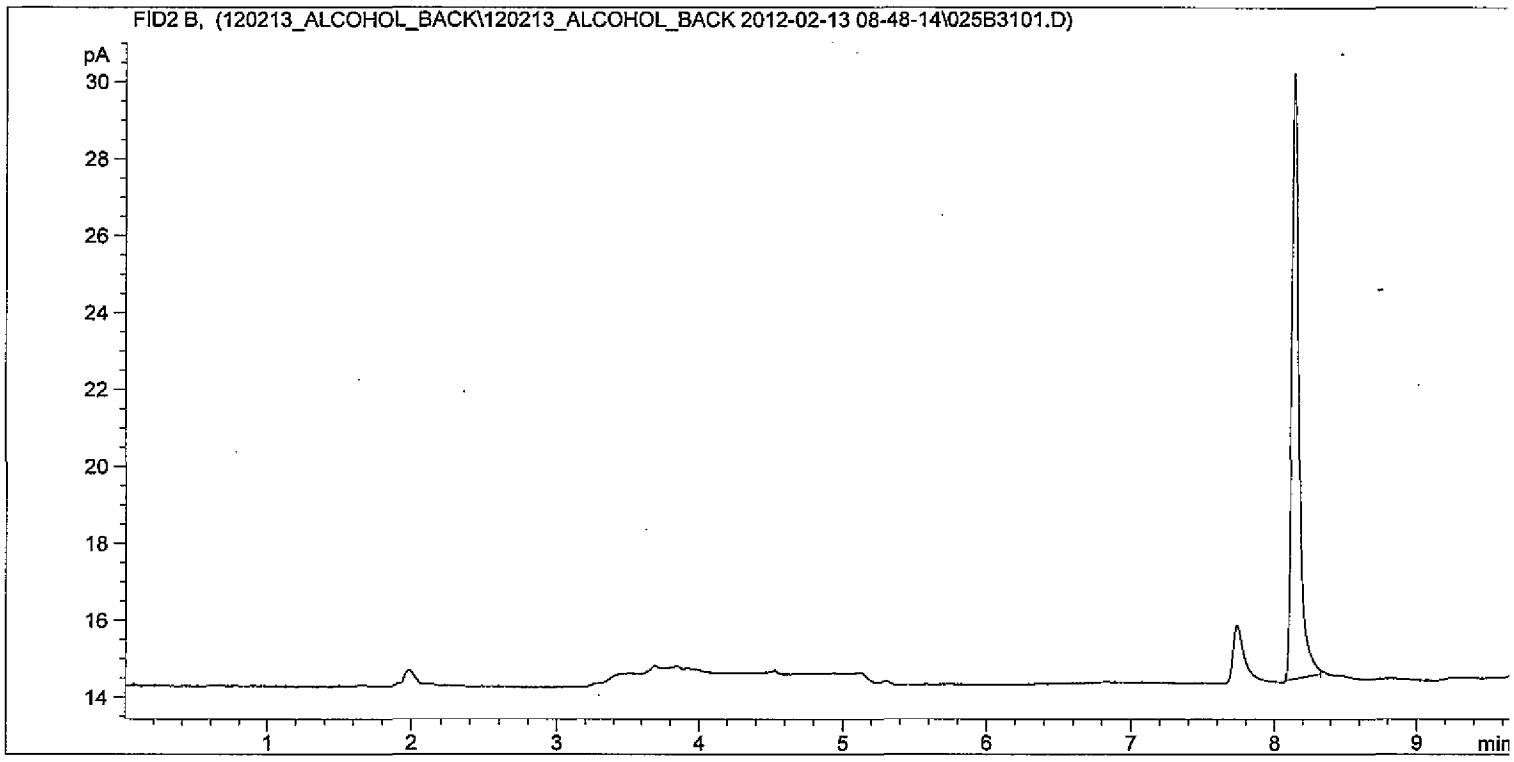
*** End of Report ***

ACM

Data File C:\CHEM32\...213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\025B3101.D
Sample Name: 1202004-31

==========

Acq. Operator : ACM
Seq. Line : 31
Acq. Instrument : AG3-6890N
Location : Vial 25
Injection Date : 2/13/2012 3:42:58 PM
Inj : 1
Inj Volume : 0.8 µl
Acq. Method : C:\CHEM32\1\DATA\120213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120213.M
Last changed : 2/16/2012 8:53:24 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 : 2/15/2012 3:48:43 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		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.079		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N/D

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 : 2/15/2012 3:48:43 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	2.217		0.0000	0.00000	0.00000	Methanol
2	2.425		0.0000	0.00000	0.00000	Ethanol
3	3.079		0.0000	0.00000	0.00000	1-Propanol
4	3.401		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

==========

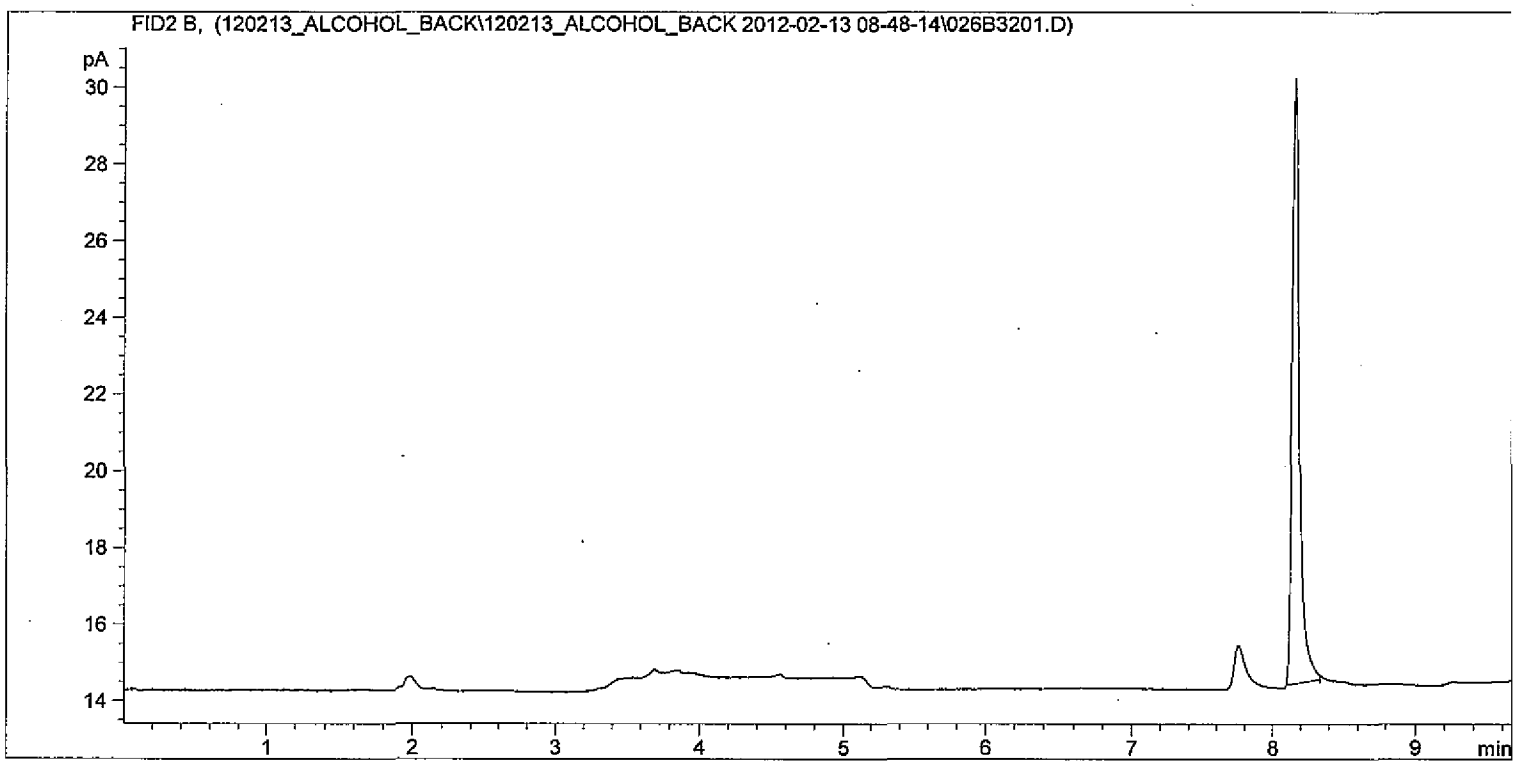
*** End of Report ***

ACM

Data File C:\CHEM32\...213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\026B3201.D
Sample Name: 1202004-32

==========

Acq. Operator : ACM
Seq. Line : 32
Acq. Instrument : AG3-6890N
Location : Vial 26
Injection Date : 2/13/2012 3:56:43 PM
Inj : 1
Inj Volume : 0.8 µl
Acq. Method : C:\CHEM32\1\DATA\120213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120213.M
Last changed : 2/16/2012 8:53:24 AM by ACM
Method Info : FID method for Alcohol analysis



==========

External Standard Report

==========

Sorted By : Signal
Calib. Data Modified : 2/15/2012 3:48:43 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		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.079		-	-	-		1-Propanol
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

N/D

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==========

Area Percent Report

==========

Sorted By : Signal
Calib. Data Modified : 2/15/2012 3:48:43 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	2.217		0.0000	0.00000	0.00000	Methanol
2	2.425		0.0000	0.00000	0.00000	Ethanol
3	3.079		0.0000	0.00000	0.00000	1-Propanol
4	3.401		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 ***

ACM

Case File Contents

Alcohols

Alcohols by EPA 8015D

WO 1202004

Dimock Residential Groundwater

DAS R33907

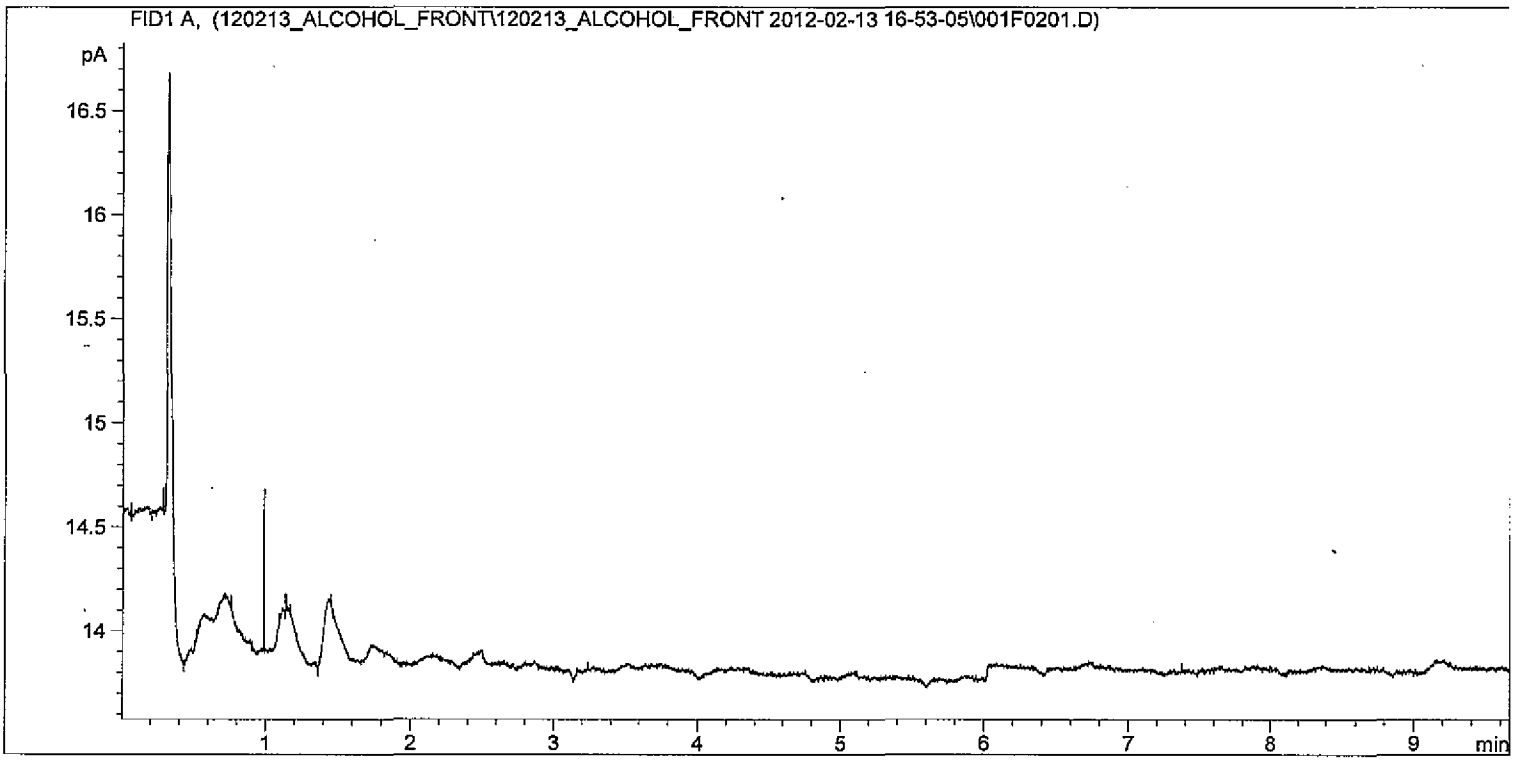
Quality Control Data

Data File C:\CHEM32\...3_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\001F0201.D
Sample Name: IBL1

==========

Acq. Operator : ACM
Seq. Line : 2
Acq. Instrument : AG3-6890N
Location : Vial 1
Injection Date : 2/13/2012 5:10:04 PM
Inj : 1
Inj Volume : 1 µl
Acq. Method : C:\CHEM32\1\DATA\120213_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120213.M
Last changed : 2/16/2012 8:27:30 AM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : water



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External Standard Report

==========

Sorted By : Signal
Calib. Data Modified : 2/16/2012 8:27:21 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
1.515		-	-	-		Methanol
1.740		-	-	-		Ethanol
2.528		-	-	-		1-Propanol

Data File C:\CHEM32\...3_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\001F0201.D
Sample Name: IBL1

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.761		-	-	-		2-Butanol
4.775		-	-	-		1-Butanol

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==========

Area Percent Report

==========

Sorted By : Signal
Calib. Data Modified : 2/16/2012 8:27:21 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	1.515		0.0000	0.00000	0.00000	Methanol
2	1.740		0.0000	0.00000	0.00000	Ethanol
3	2.528		0.0000	0.00000	0.00000	1-Propanol
4	2.761		0.0000	0.00000	0.00000	2-Butanol
5	4.775		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 ***

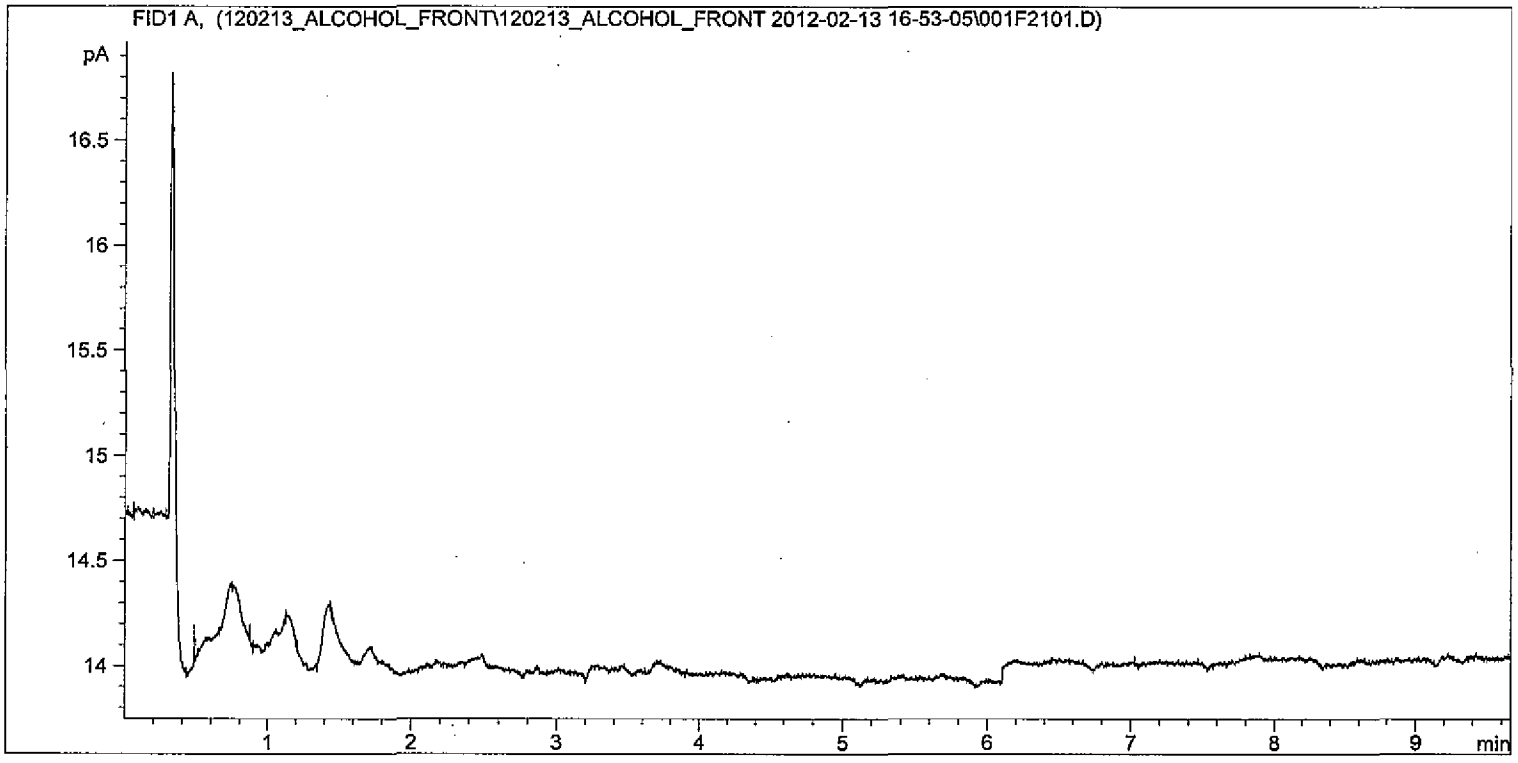
pass

Acm

==========

Acq. Operator : ACM
Seq. Line : 21
Acq. Instrument : AG3-6890N
Location : Vial 1
Injection Date : 2/13/2012 9:32:46 PM
Inj : 1
Inj Volume : 1 µl
Acq. Method : C:\CHEM32\1\DATA\120213_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120213.M
Last changed : 2/16/2012 8:27:30 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 : 2/16/2012 8:27:21 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
1.515		-	-	-		Methanol
1.740		-	-	-		Ethanol
2.528		-	-	-		1-Propanol

Data File C:\CHEM32\...3_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\001F2101.D
Sample Name: IBL2

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.761		-	-	-		2-Butanol
4.775		-	-	-		1-Butanol

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==========

Area Percent Report

==========

Sorted By : Signal
Calib. Data Modified : 2/16/2012 8:27:21 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	1.515		0.0000	0.00000	0.00000	Methanol
2	1.740		0.0000	0.00000	0.00000	Ethanol
3	2.528		0.0000	0.00000	0.00000	1-Propanol
4	2.761		0.0000	0.00000	0.00000	2-Butanol
5	4.775		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

Am

Data File C:\CHEM32\...3_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\001F3401.D
Sample Name: IBL3

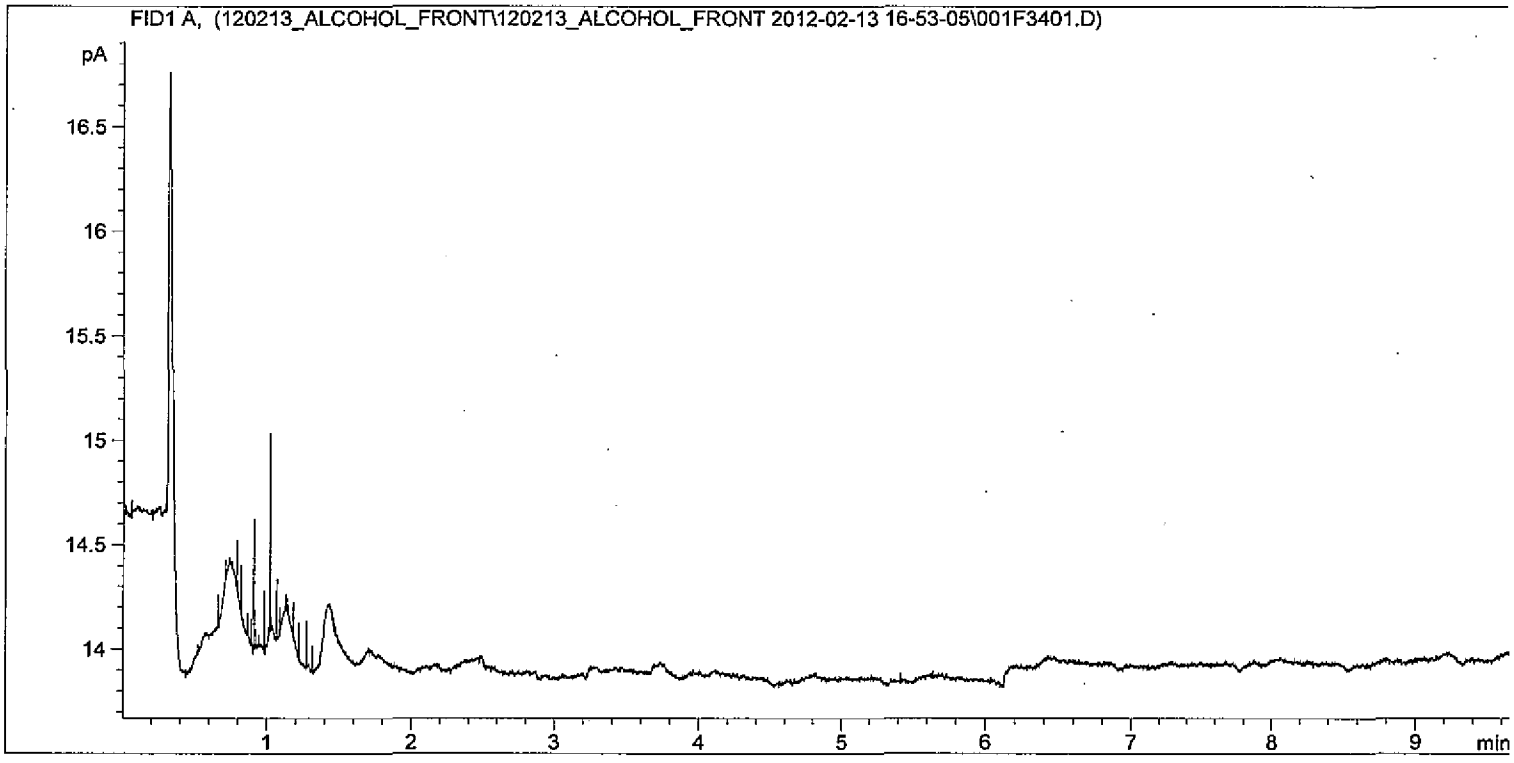
==========

Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 2/14/2012 12:32:31 AM

Seq. Line : 34
Location : Vial 1
Inj : 1
Inj Volume : 1 µl

Acq. Method : C:\CHEM32\1\DATA\120213_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120213.M
Last changed : 2/16/2012 8:27:30 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 : 2/16/2012 8:27:21 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
1.515		-	-	-		Methanol
1.740		-	-	-		Ethanol
2.528		-	-	-		1-Propanol

Data File C:\CHEM32\...3_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\001F3401.D
Sample Name: IBL3

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.761		-	-	-		2-Butanol
4.775		-	-	-		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 : 2/16/2012 8:27:21 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	1.515		0.0000	0.00000	0.00000	Methanol
2	1.740		0.0000	0.00000	0.00000	Ethanol
3	2.528		0.0000	0.00000	0.00000	1-Propanol
4	2.761		0.0000	0.00000	0.00000	2-Butanol
5	4.775		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

Am

Data File:C:\CHEM32\...3_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\002F0301.D
Sample Name: CCV1

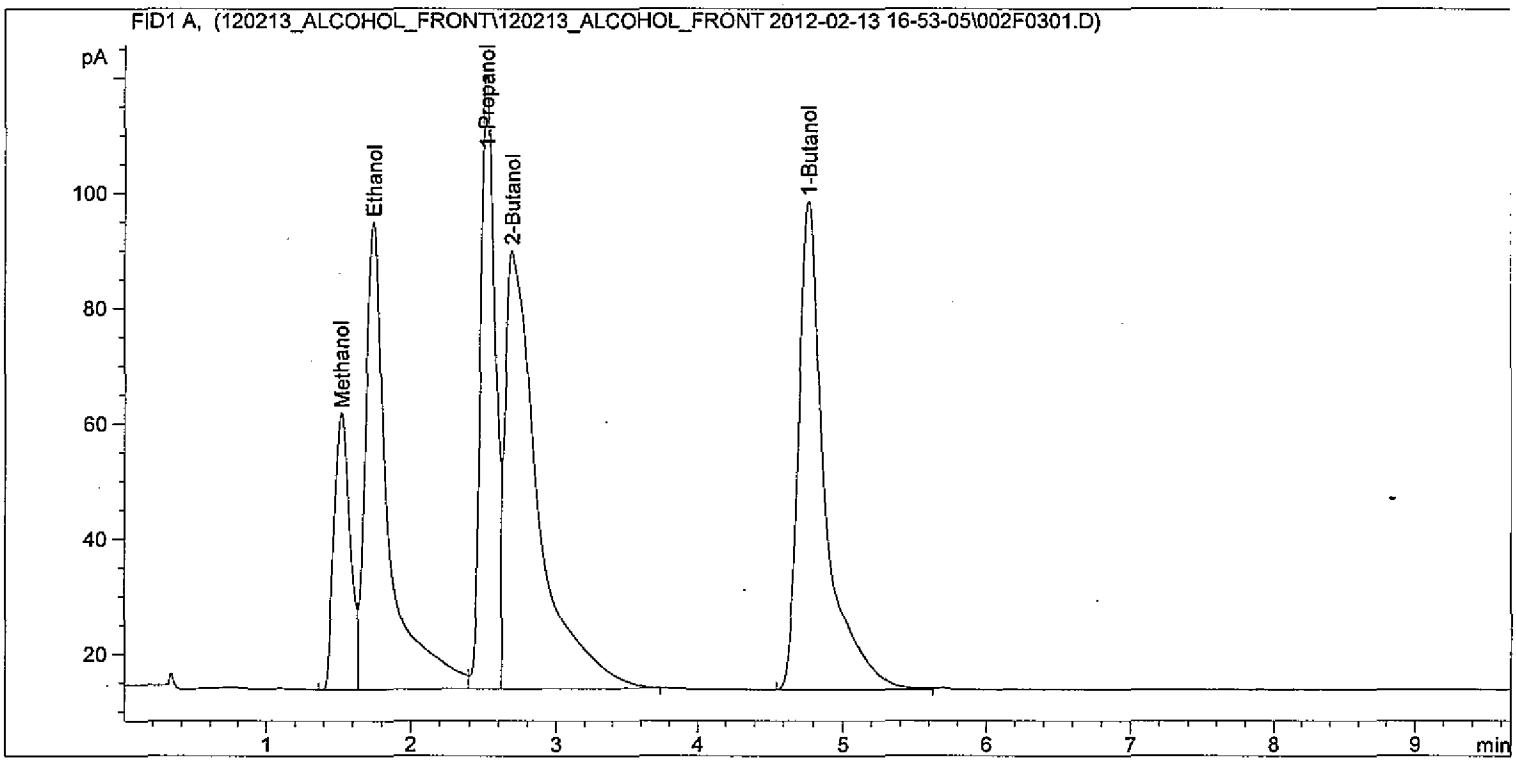
==========

Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 2/13/2012 5:23:51 PM

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

Acq. Method : C:\CHEM32\1\DATA\120213_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120213.M
Last changed : 2/16/2012 8:27:30 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 : 2/16/2012 8:27:21 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	%D
1.520	VV	369.37872	2.71749e-1	100.37823		Methanol	0.378
1.742	VV	897.22668	1.07605e-1	96.54603		Ethanol	3.45
2.514	VV	732.57574	1.23867e-1	90.74178		1-Propanol	9.26

pass

Data File: C:\CHEM32\...3_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\002F0301.D
Sample Name: CCV1

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%D
2.689	VB	1224.71814	8.03929e-2	98.45861		2-Butanol	1.54
4.767	BB	1046.34338	9.25726e-2	96.86274		1-Butanol	3.14

> pass

Totals : 482.98738

*** End of Report ***

all pass

An

Data File C:\CHEM32\...3_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\002F2201.D
Sample Name: CCV2

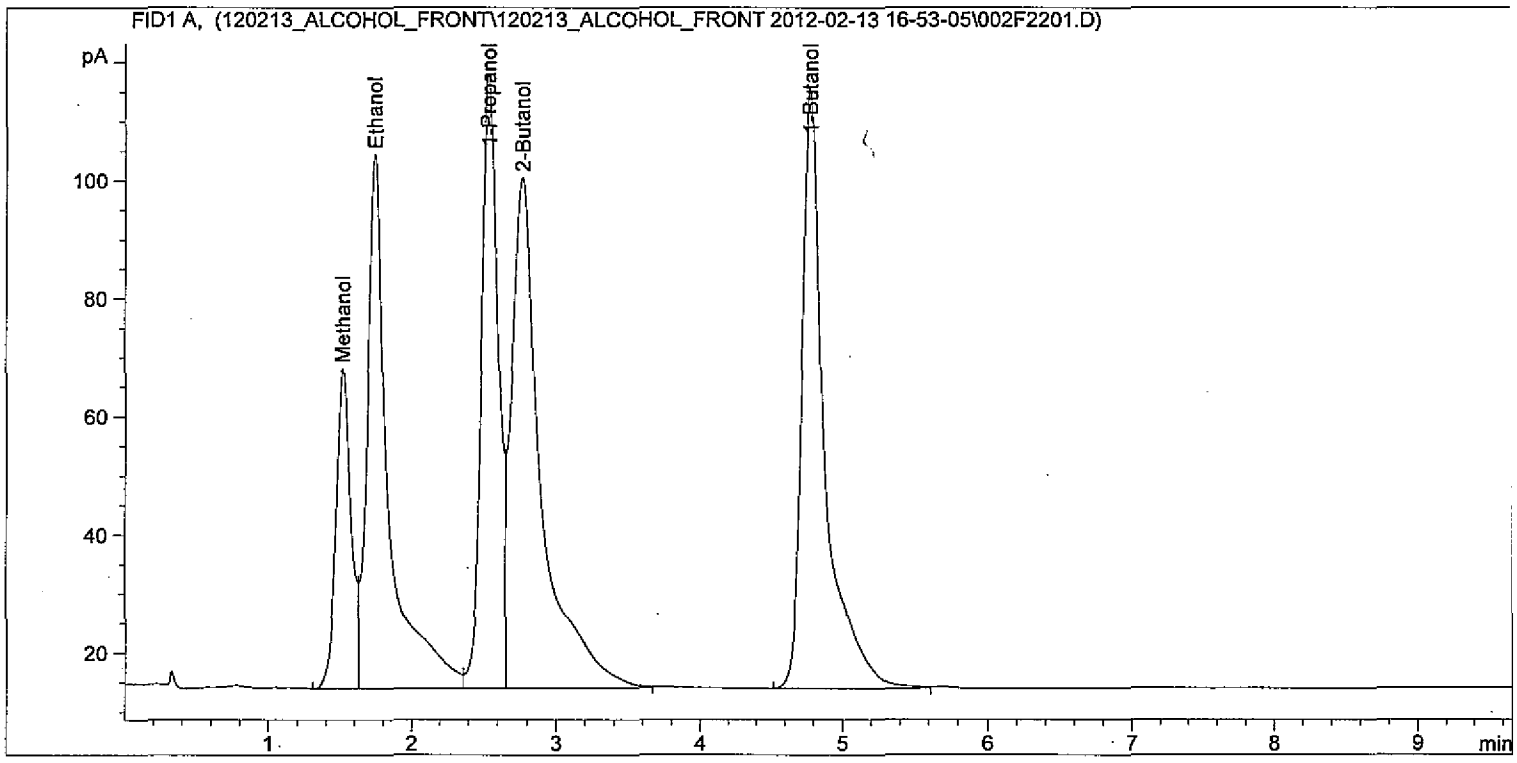
==========

Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 2/13/2012 9:46:37 PM

Seq. Line : 22
Location : Vial 2
Inj : 1
Inj Volume : 1 µl

Acq. Method : C:\CHEM32\1\DATA\120213_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120213.M
Last changed : 2/16/2012 8:27:30 AM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : ALCal4-111122-ACM



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External Standard Report

==========

Sorted By : Signal
Calib. Data Modified : 2/16/2012 8:27:21 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	%D
1.519	VV	403.38611	2.71268e-1	109.42592		Methanol	9.42
1.744	VV	951.03687	1.07685e-1	102.41279		Ethanol	2.41
2.535	VV	846.04272	1.23143e-1	104.18404		1-Propanol	4.18

pass

Data File C:\CHEM32\...3_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\002F2201.D
Sample Name: CCV2

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%D
2.768	VV	1239.27734	8.03968e-2	99.63398		2-Butanol	0.366
4.778	BB	1110.75989	9.25362e-2	102.78547		1-Butanol	2.78

> pass

Totals : 518.44219

*** End of Report ***

all pass

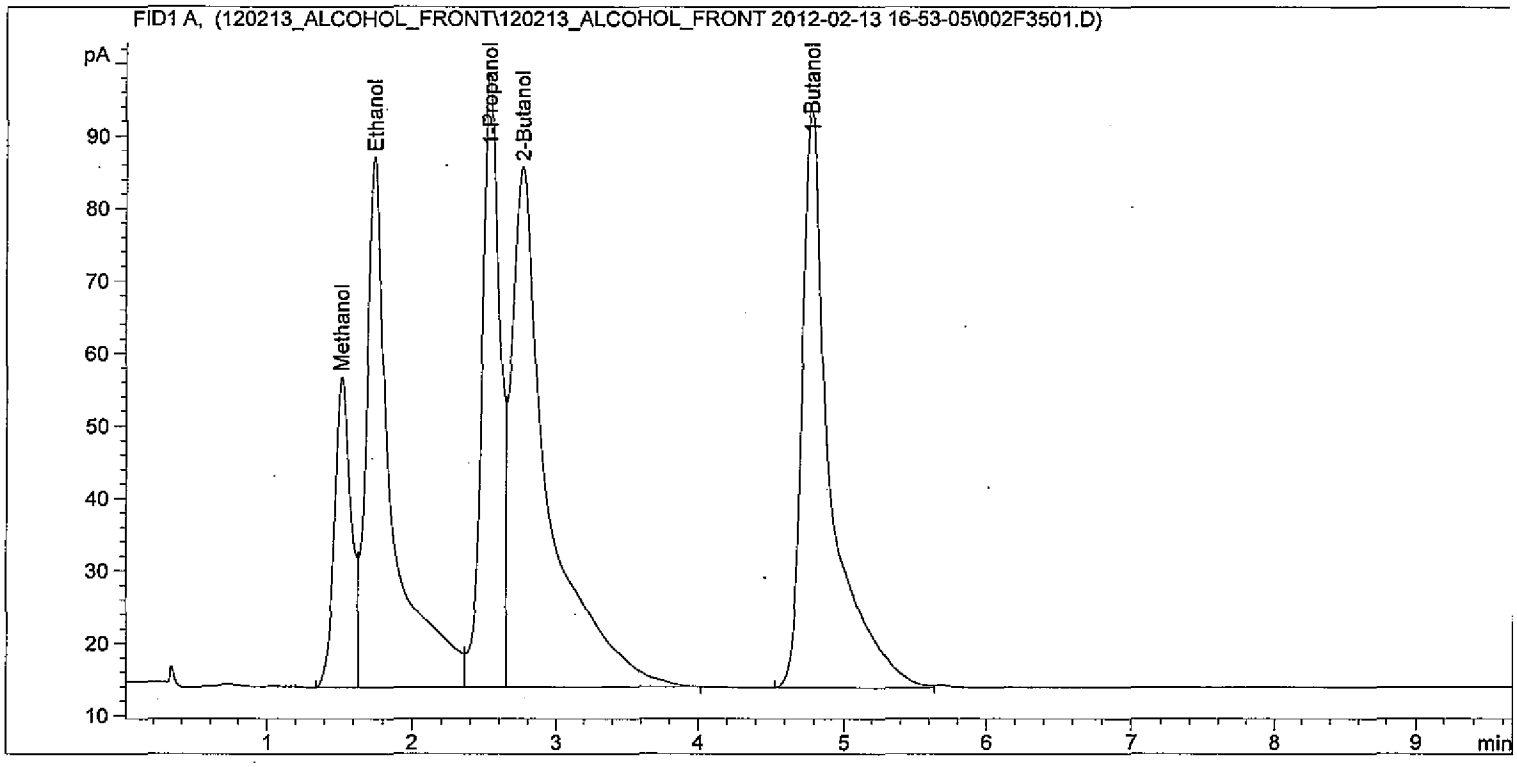
Am

Data File C:\CHEM32\...3_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\002F3501.D
Sample Name: CCV3

==========

Acq. Operator : ACM
Seq. Line : 35
Acq. Instrument : AG3-6890N
Location : Vial 2
Injection Date : 2/14/2012 12:46:21 AM
Inj : 1
Inj Volume : 1 µl
Acq. Method : C:\CHEM32\1\DATA\120213_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120213.M
Last changed : 2/16/2012 8:27:30 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 : 2/16/2012 8:27:21 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	BV	340.75433	2.72227e-1	92.76269		Methanol	7.24
1.740	VV	896.17218	1.07603e-1	96.43106		Ethanol	3.57
2.529	VV	724.61810	1.23926e-1	89.79905		1-Propanol	10.2

Acm

> pass

Data File C:\CHEM32\...3_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\002F3501.D
Sample Name: CCV3

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%D
2.761	VB	1298.60217	8.04121e-2	104.42329		2-Butanol	4.42
4.775	BV	1051.12952	9.25698e-2	97.30280		1-Butanol	2.70

> pass

Totals : 480.71888

*** End of Report ***

all pass

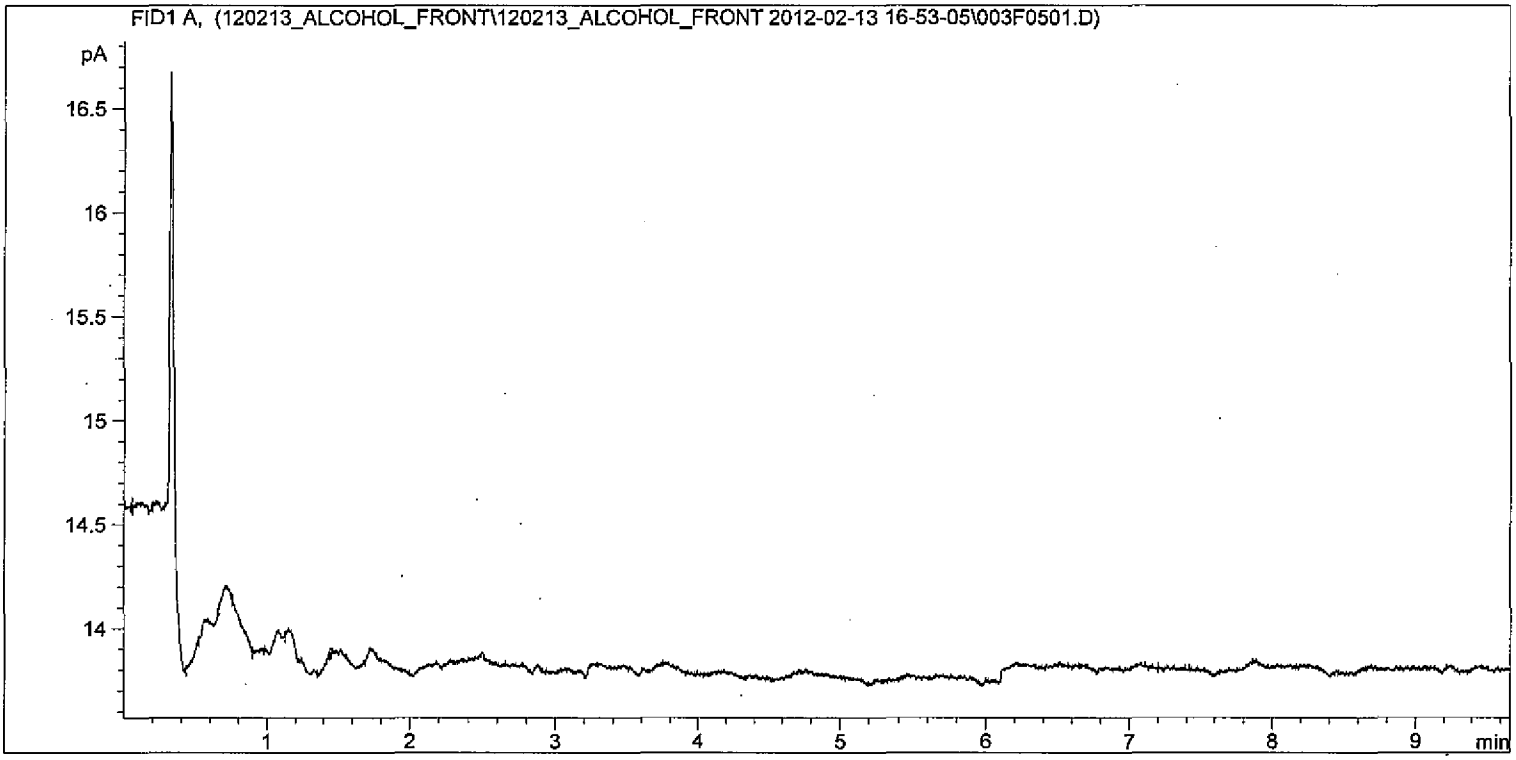
Am

Data File C:\CHEM32\...3_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\003F0501.D
Sample Name: BB21301-BLK1

==========

Acq. Operator : ACM
Seq. Line : 5
Acq. Instrument : AG3-6890N
Location : Vial 3
Injection Date : 2/13/2012 5:51:31 PM
Inj : 1
Inj Volume : 1 µl
Acq. Method : C:\CHEM32\1\DATA\120213_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120213.M
Last changed : 2/16/2012 8:27:30 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 : 2/16/2012 8:27:21 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
1.515		-	-	-		Methanol
1.740		-	-	-		Ethanol
2.528		-	-	-		1-Propanol

Data File C:\CHEM32\...3_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\003F0501.D
Sample Name: BB21301-BLK1

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
2.761		-	-	-		2-Butanol
4.775		-	-	-		1-Butanol

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==========

Area Percent Report

==========

Sorted By : Signal
Calib. Data Modified : 2/16/2012 8:27:21 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	1.515		0.0000	0.00000	0.00000	Methanol
2	1.740		0.0000	0.00000	0.00000	Ethanol
3	2.528		0.0000	0.00000	0.00000	1-Propanol
4	2.761		0.0000	0.00000	0.00000	2-Butanol
5	4.775		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 ***

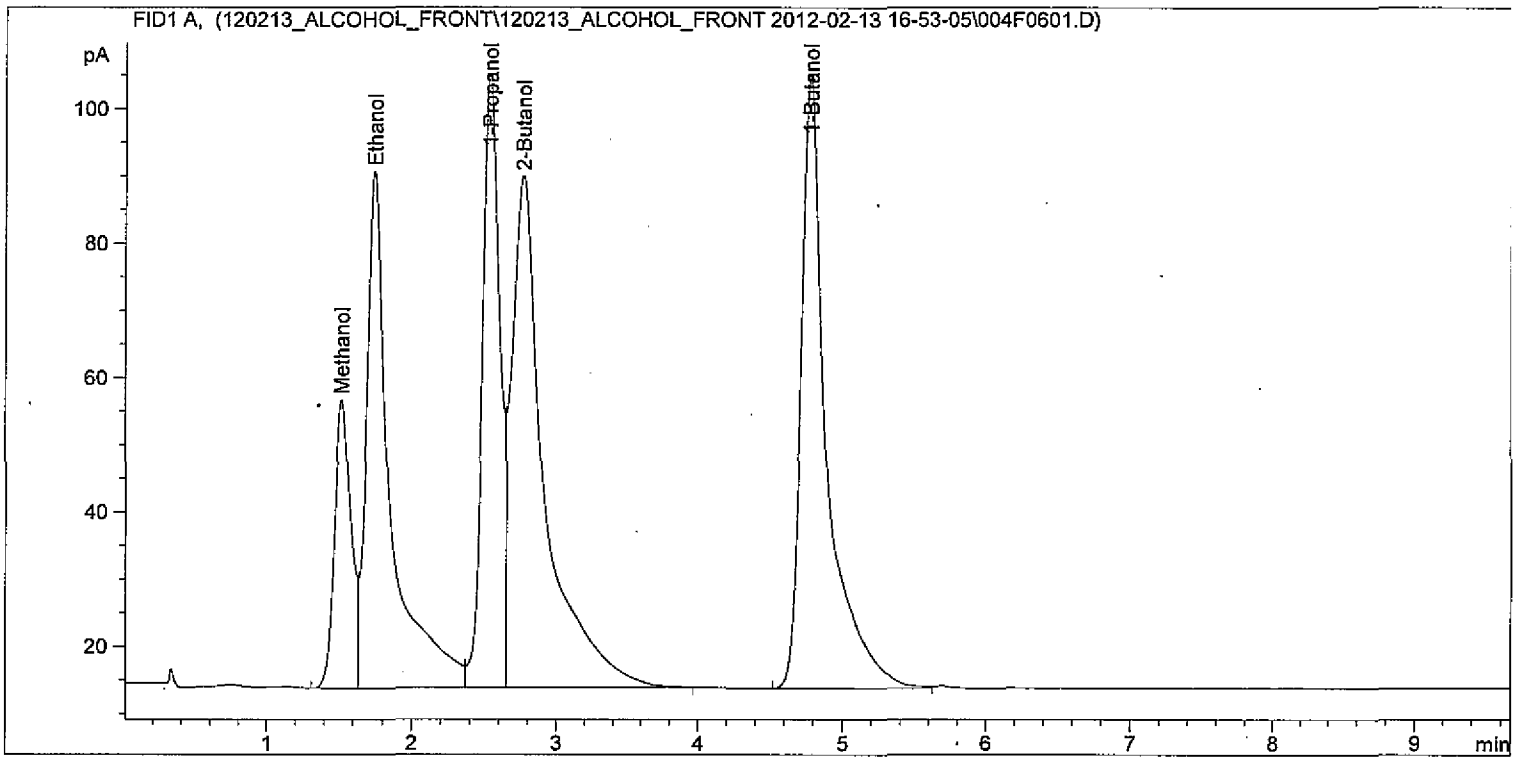
pass

Acm

Data File C:\CHEM32\...3_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\004F0601.D
Sample Name: BB21301-BS1

==========

Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 2/13/2012 6:05:21 PM
Seq. Line : 6
Location : Vial 4
Inj : 1
Inj Volume : 1 µl
Acq. Method : C:\CHEM32\1\DATA\120213_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120213.M
Last changed : 2/16/2012 8:27:30 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 : 2/16/2012 8:27:21 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
1.519	VV	338.88690	2.72261e-1	92.26585		Methanol	92.3
1.744	VV	886.42609	1.07588e-1	95.36847		Ethanol	95.4
2.532	VV	764.79156	1.23639e-1	94.55834		1-Propanol	94.6
2.765	VB	1229.05225	8.03941e-2	98.80850		2-Butanol	98.8
4.778	BB	1090.57190	9.25471e-2	100.92930		1-Butanol	100.9

pass

Totals : 481.93046

==========

*** End of Report ***

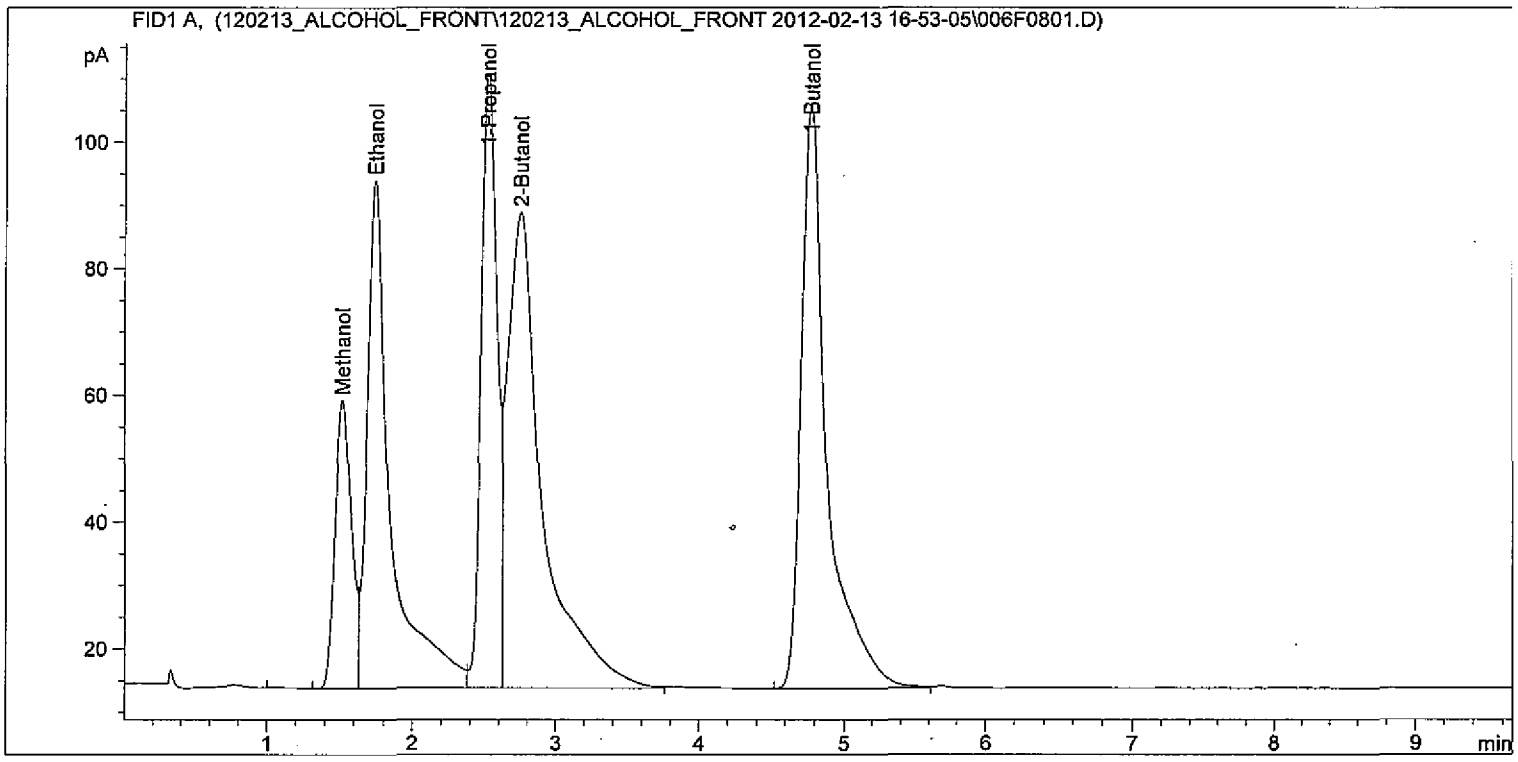
all pass

Acm

Data File C:\CHEM32\...3_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\006F0801.D
Sample Name: BB21301-MS1

==========

Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 2/13/2012 6:33:00 PM
Seq. Line : 8
Location : Vial 6
Inj : 1
Inj Volume : 1 µl
Acq. Method : C:\CHEM32\1\DATA\120213_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120213.M
Last changed : 2/16/2012 8:27:30 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 : 2/16/2012 8:27:21 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
1.519	VV	354.10916	2.71995e-1	96.31575		Methanol	96.3
1.743	VV	910.52240	1.07626e-1	97.99562		Ethanol	98.0
2.523	VV	750.35767	1.23739e-1	92.84838		1-Propanol	92.8
2.754	VB	1276.75183	8.04066e-2	102.65930		2-Butanol	102.6
4.771	BB	1114.08948	9.25344e-2	103.09160		1-Butanol	103.1

pass

Totals : 492.91065

==========

*** End of Report ***

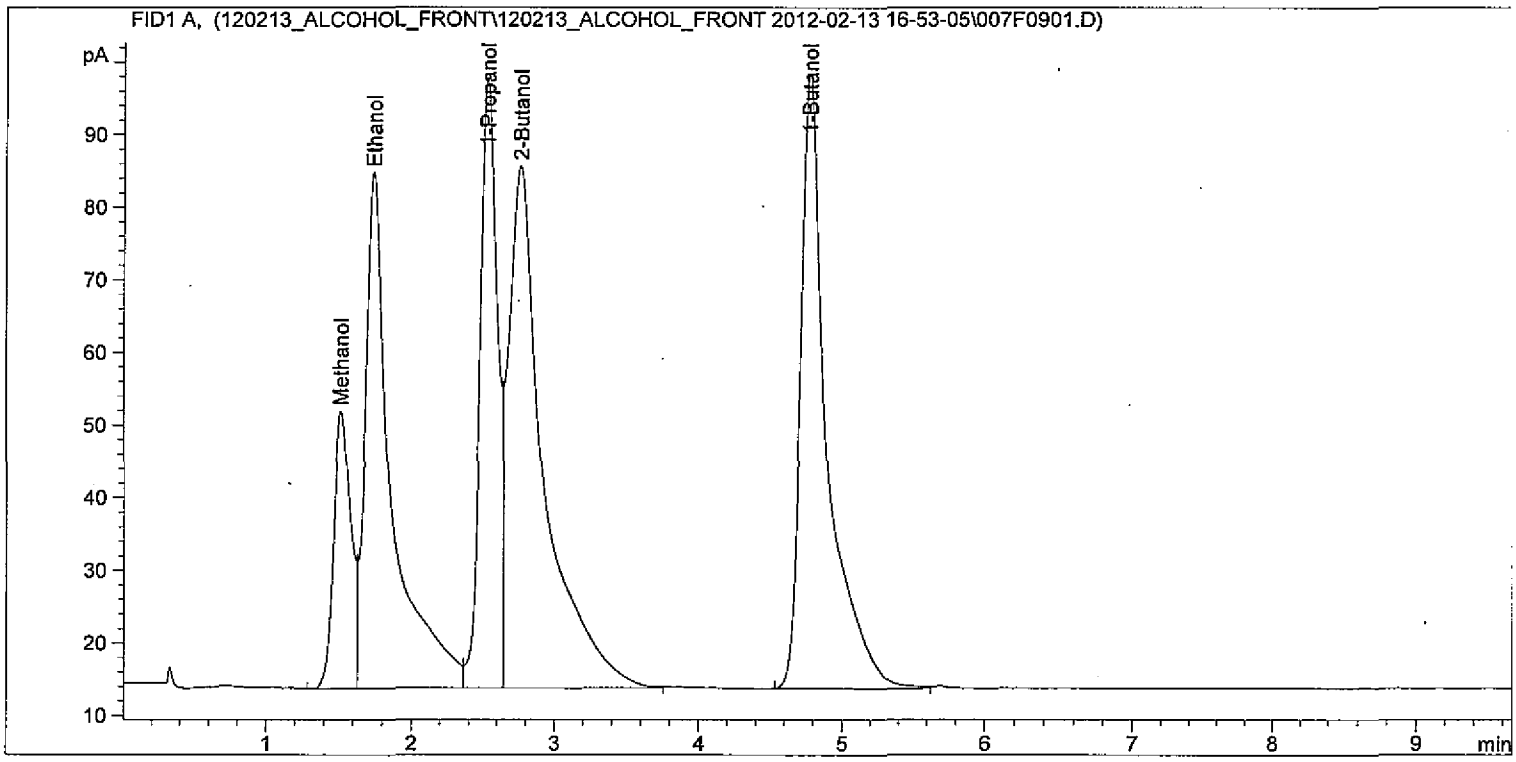
all pass

Acm

Data File C:\CHEM32\...3_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\007F0901.D
Sample Name: BB21301-MSD1

==========

Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 2/13/2012 6:46:51 PM
Seq. Line : 9
Location : Vial 7
Inj : 1
Inj Volume : 1 µl
Acq. Method : C:\CHEM32\1\DATA\120213_ALCOHOL_FRONT\120213_ALCOHOL_FRONT 2012-02-13 16-53-05\ALCOHOLS_FRONT.M
Last changed : 1/31/2012 7:43:47 AM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_FRONT_120213.M
Last changed : 2/16/2012 8:27:30 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 : 2/16/2012 8:27:21 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	315.24634	2.72727e-1	85.97626		Methanol	86.0
1.740	VV	902.71832	1.07614e-1	97.14477		Ethanol	97.1
2.528	VV	713.90393	1.24008e-1	88.52976		1-Propanol	88.5
2.762	VB	1243.51648	8.03980e-2	99.97620		2-Butanol	100.0
4.773	BB	1075.18823	9.25558e-2	99.51486		1-Butanol	99.5

pass

Totals : 471.14184

*** End ~~of~~ Report ***

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

$$MeOH = \left[\frac{|96.3 - 86.0|}{Avg(96.3, 86)}\right] 100 = \left[\frac{10.3}{91.15}\right] 100 = \underline{11.3\%}$$

$$EtOH = \left[\frac{|98.0 - 97.1|}{Avg(98, 97.1)}\right] 100 = \left[\frac{0.9}{97.55}\right] 100 = \underline{0.923\%}$$

$$1\text{-}Propanol = \left[\frac{|92.8 - 88.5|}{Avg(92.8, 88.5)}\right] 100 = \left[\frac{4.3}{90.65}\right] 100 = \underline{4.74\%}$$

$$2\text{-}Butanol = \left[\frac{|102.6 - 100.0|}{Avg.(102.6, 100)}\right] 100 = \left[\frac{2.6}{101.3}\right] 100 = \underline{2.57\%}$$

$$1\text{-}Butanol = \left[\frac{|103.1 - 99.5|}{Avg(103.1, 99.5)}\right] 100 = \left[\frac{3.6}{101.3}\right] 100 = \underline{3.55\%}$$

all pass

Acm

Data File C:\CHEM32\...213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\001B0201.D
Sample Name: IBL1

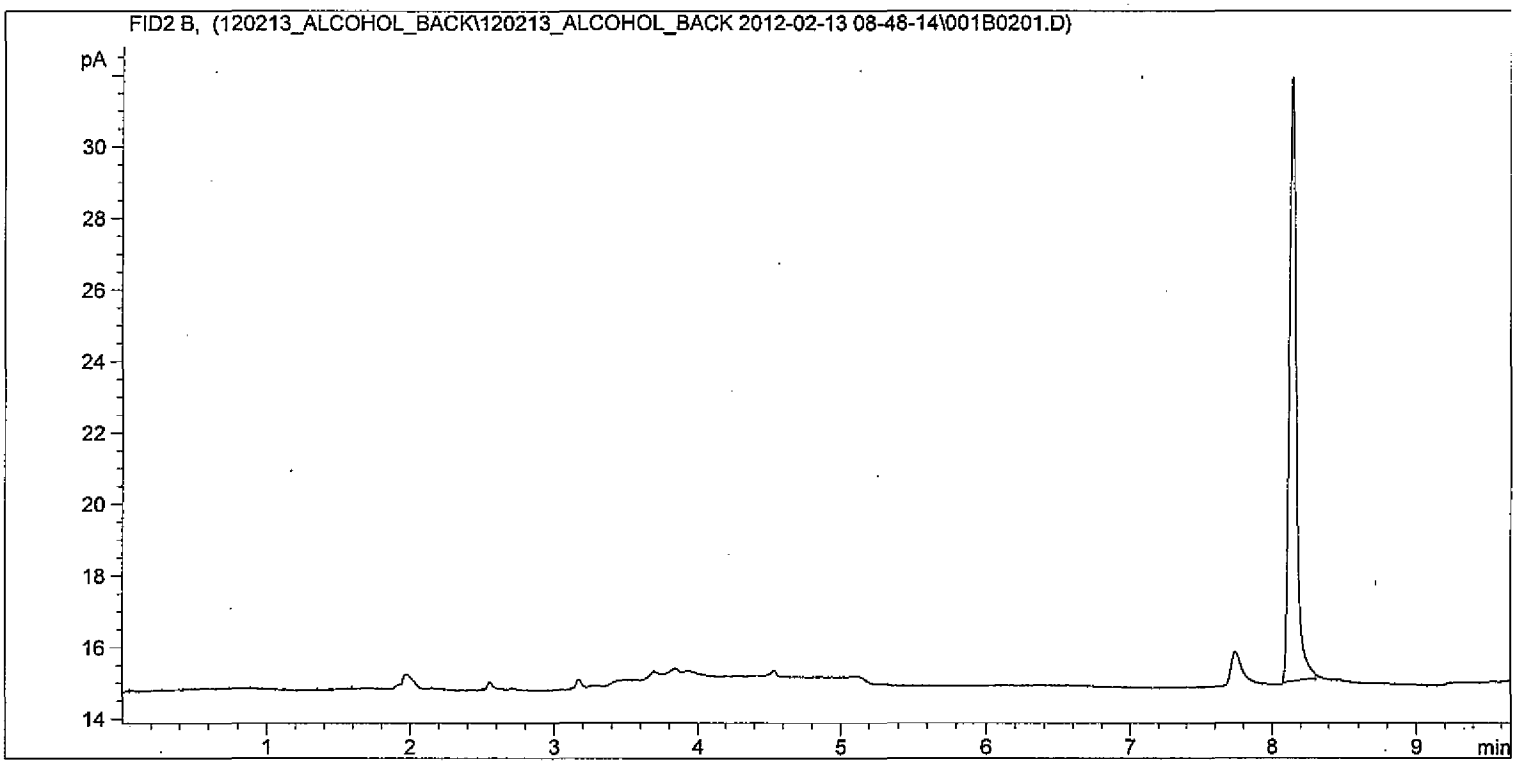
==========

Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 2/13/2012 9:05:04 AM

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

Acq. Method : C:\CHEM32\1\DATA\120213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120213.M
Last changed : 2/16/2012 8:53:24 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 : 2/15/2012 3:48:43 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		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.079		-	-	-		1-Propanol

Data File C:\CHEM32\...213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\001B0201.D
Sample Name: IBL1

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==========

Area Percent Report

==========

Sorted By : Signal
Calib. Data Modified : 2/15/2012 3:48:43 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	2.217		0.0000	0.00000	0.00000	Methanol
2	2.425		0.0000	0.00000	0.00000	Ethanol
3	3.079		0.0000	0.00000	0.00000	1-Propanol
4	3.401		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 ***

pass

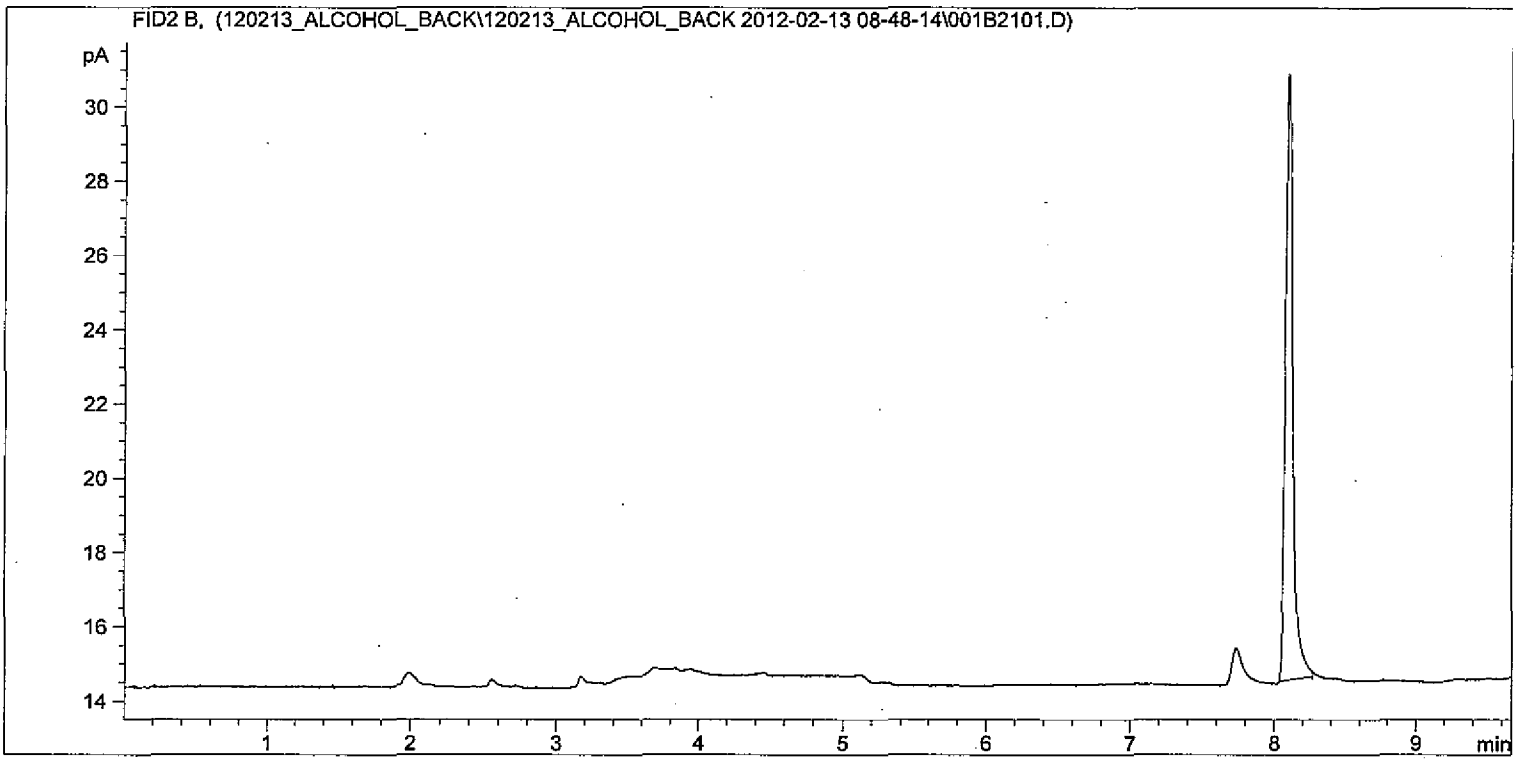
Acm

Data File C:\CHEM32\...213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\001B2101.D
Sample Name: IBL2

==========

Acq. Operator : ACM
Seq. Line : 21
Acq. Instrument : AG3-6890N
Location : Vial 1
Injection Date : 2/13/2012 1:25:45 PM
Inj : 1
Inj Volume : 0.8 µl
Acq. Method : C:\CHEM32\1\DATA\120213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120213.M
Last changed : 2/16/2012 8:53:24 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 : 2/15/2012 3:48:43 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		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.079		-	-	-		1-Propanol

Data File C:\CHEM32\...213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\001B2101.D
Sample Name: IBL2

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==========

Area Percent Report

==========

Sorted By : Signal
Calib. Data Modified : 2/15/2012 3:48:43 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	2.217		0.0000	0.00000	0.00000	Methanol
2	2.425		0.0000	0.00000	0.00000	Ethanol
3	3.079		0.0000	0.00000	0.00000	1-Propanol
4	3.401		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 ***

pass

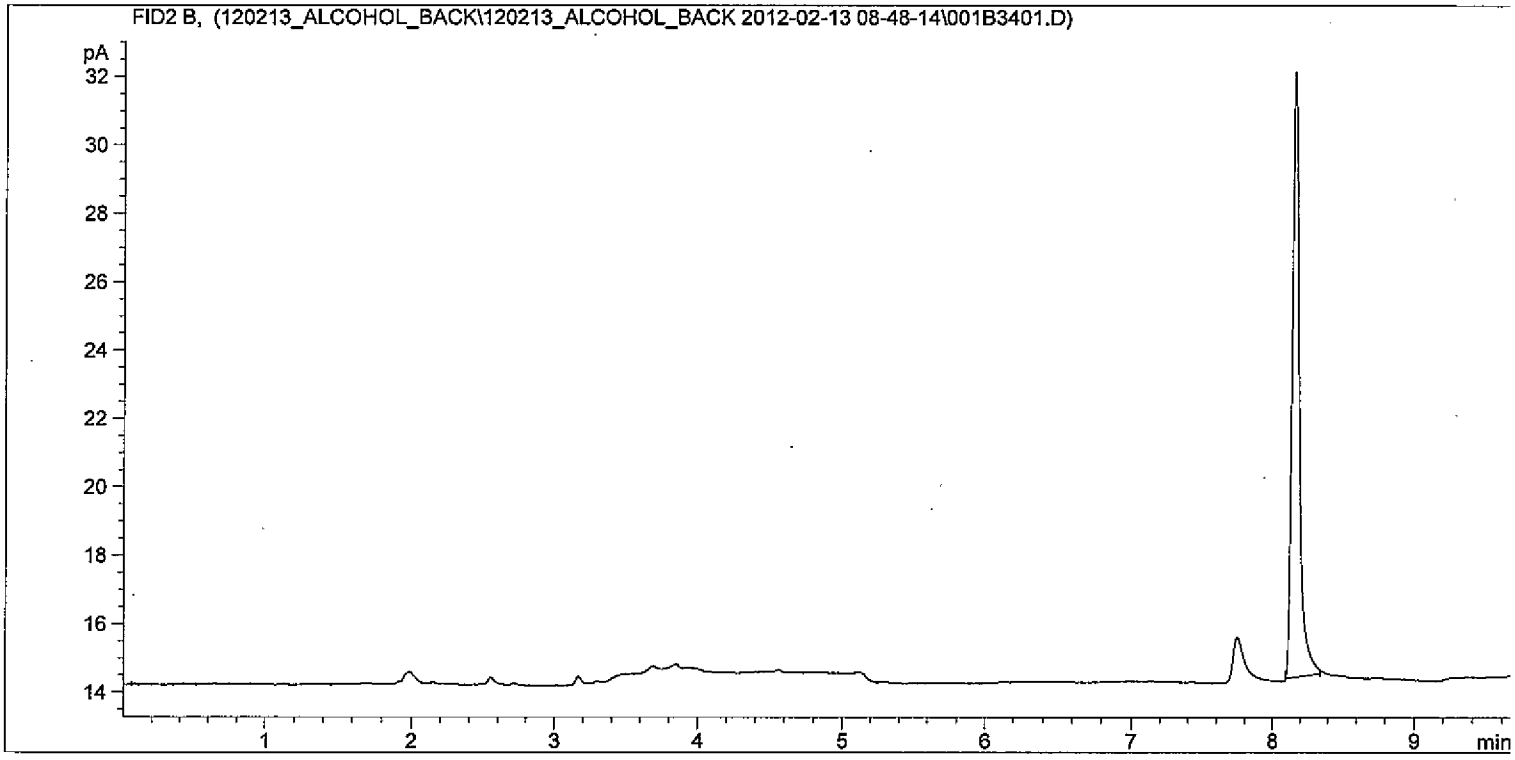
Aem

Data File C:\CHEM32\...213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\001B3401.D
Sample Name: IBL3

==========

Acq. Operator : ACM
Seq. Line : 34
Acq. Instrument : AG3-6890N
Location : Vial 1
Injection Date : 2/13/2012 4:24:10 PM
Inj : 1
Inj Volume : 0.8 µl
Acq. Method : C:\CHEM32\1\DATA\120213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120213.M
Last changed : 2/16/2012 8:53:24 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 : 2/15/2012 3:48:43 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		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.079		-	-	-		1-Propanol

Data File C:\CHEM32\...213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\001B3401:D
Sample Name: IBL3

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
3.401		-	-	-		2-Butanol
4.399		-	-	-		1-Butanol

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==========

Area Percent Report

==========

Sorted By : Signal
Calib. Data Modified : 2/15/2012 3:48:43 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	2.217		0.0000	0.00000	0.00000	Methanol
2	2.425		0.0000	0.00000	0.00000	Ethanol
3	3.079		0.0000	0.00000	0.00000	1-Propanol
4	3.401		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 ***

PASS

Aen

Data File C:\CHEM32\...213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\002B0301.D
Sample Name: CCV1

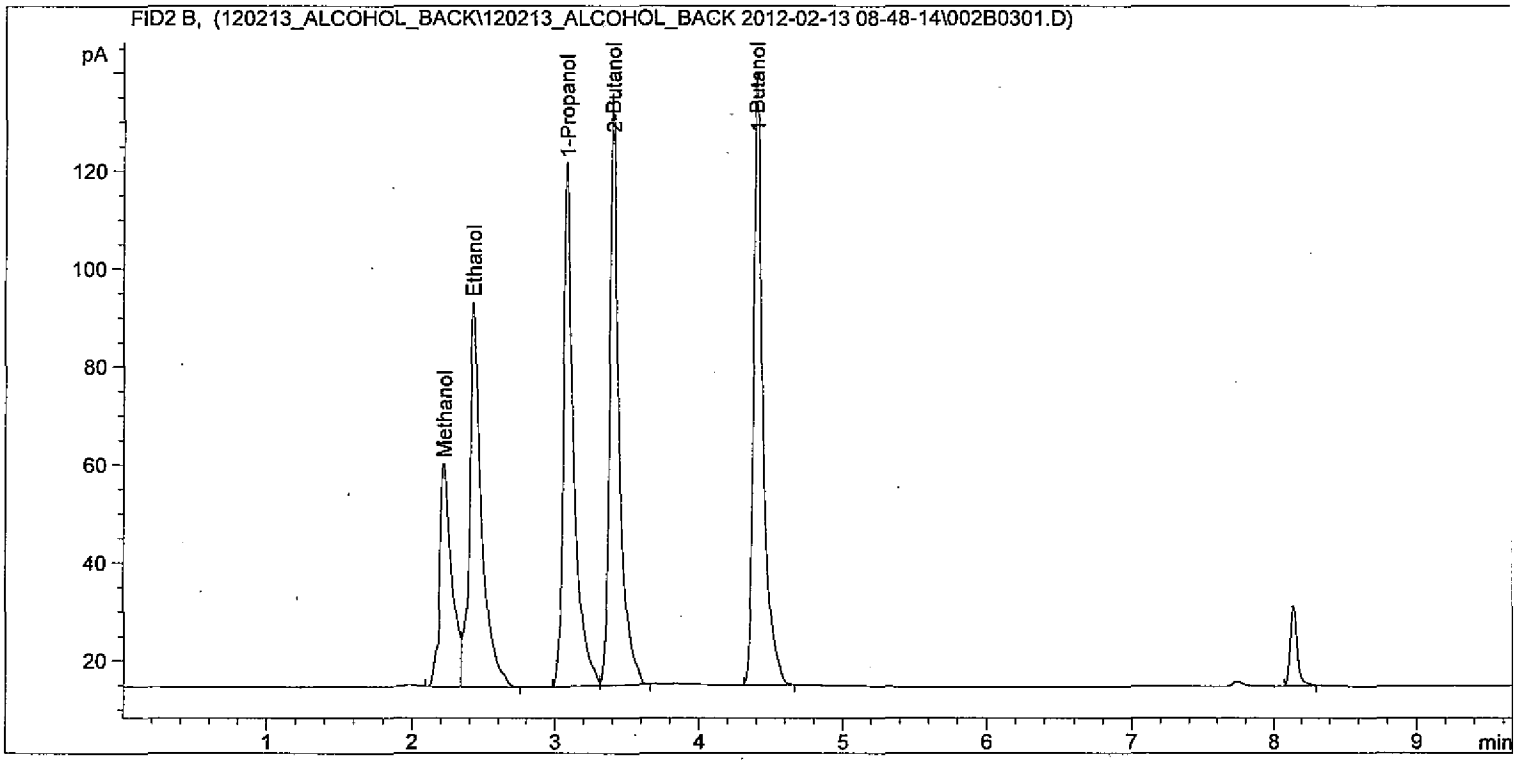
==========

Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 2/13/2012 9:18:47 AM

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

Acq. Method : C:\CHEM32\1\DATA\120213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120213.M
Last changed : 2/16/2012 8:53:24 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 : 2/15/2012 3:48:43 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	%D
2.219	VV	263.77765	3.74590e-1	98.80836		Methanol	1.19
2.426	VB	454.93335	2.09584e-1	95.34674		Ethanol	4.05
3.081	BV	535.13287	1.78680e-1	95.61736		1-Propanol	4.38

pass

Data File C:\CHEM32\...213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\002B0301.D
Sample Name: CCV1

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%D
3.402	VB	543.11285	1.76582e-1	95.90395		2-Butanol	4.10
4.401	BB	578.99823	1.65483e-1	95.81439		1-Butanol	4.18

> pass

Totals : 481.49080

*** End of Report ***

all pass

ACM

Data File C:\CHEM32\...213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\002B2201.D
Sample Name: CCV2

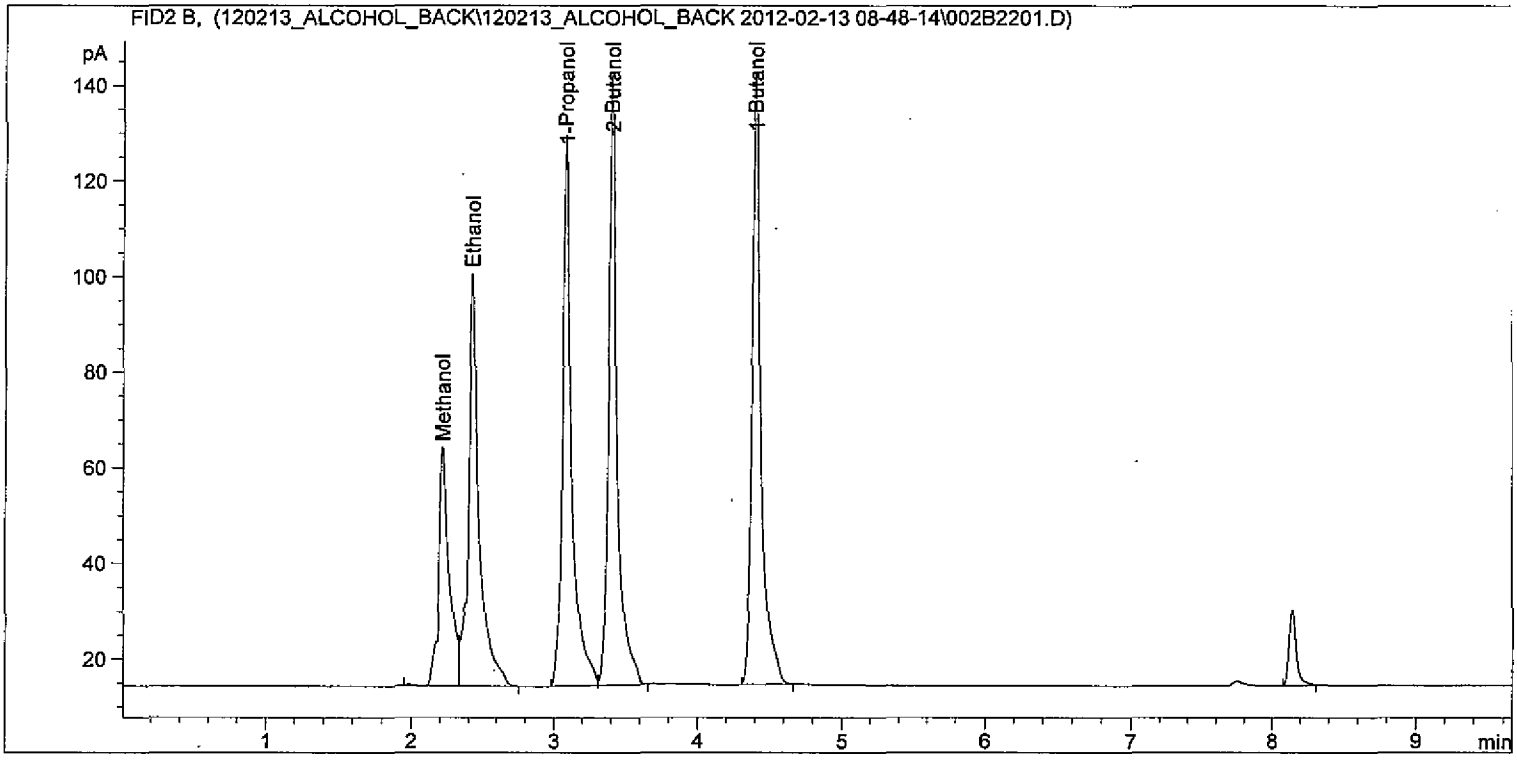
==========

Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 2/13/2012 1:39:29 PM

Seq. Line : 22
Location : Vial 2
Inj : 1
Inj Volume : 0.8 µl

Acq. Method : C:\CHEM32\1\DATA\120213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120213.M
Last changed : 2/16/2012 8:53:24 AM by ACM
Method Info : FID method for Alcohol analysis

Sample Info : ALCal4-111122-ACM



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External Standard Report

==========

Sorted By : Signal
Calib. Data Modified : 2/15/2012 3:48:43 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	%D
2.219	BV	253.98500	3.74333e-1	95.07487		Methanol	4.92
2.426	VB	441.23392	2.09615e-1	92.48922		Ethanol	7.51
3.081	BV	512.48682	1.78627e-1	91.54377		1-Propanol	8.46

pass

Data File C:\CHEM32\...213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\002B2201.D
Sample Name: CCV2

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%D
3.402	VB	517.68762	1.76526e-1	91.38531		2-Butanol	8.61
4.400	BB	551.50751	1.65443e-1	91.24321		1-Butanol	8.76

> pass

Totals : 461.73638

*** End of Report ***

all pass

Acm

Data File C:\CHEM32\...213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\002B3501.D
Sample Name: CCV3

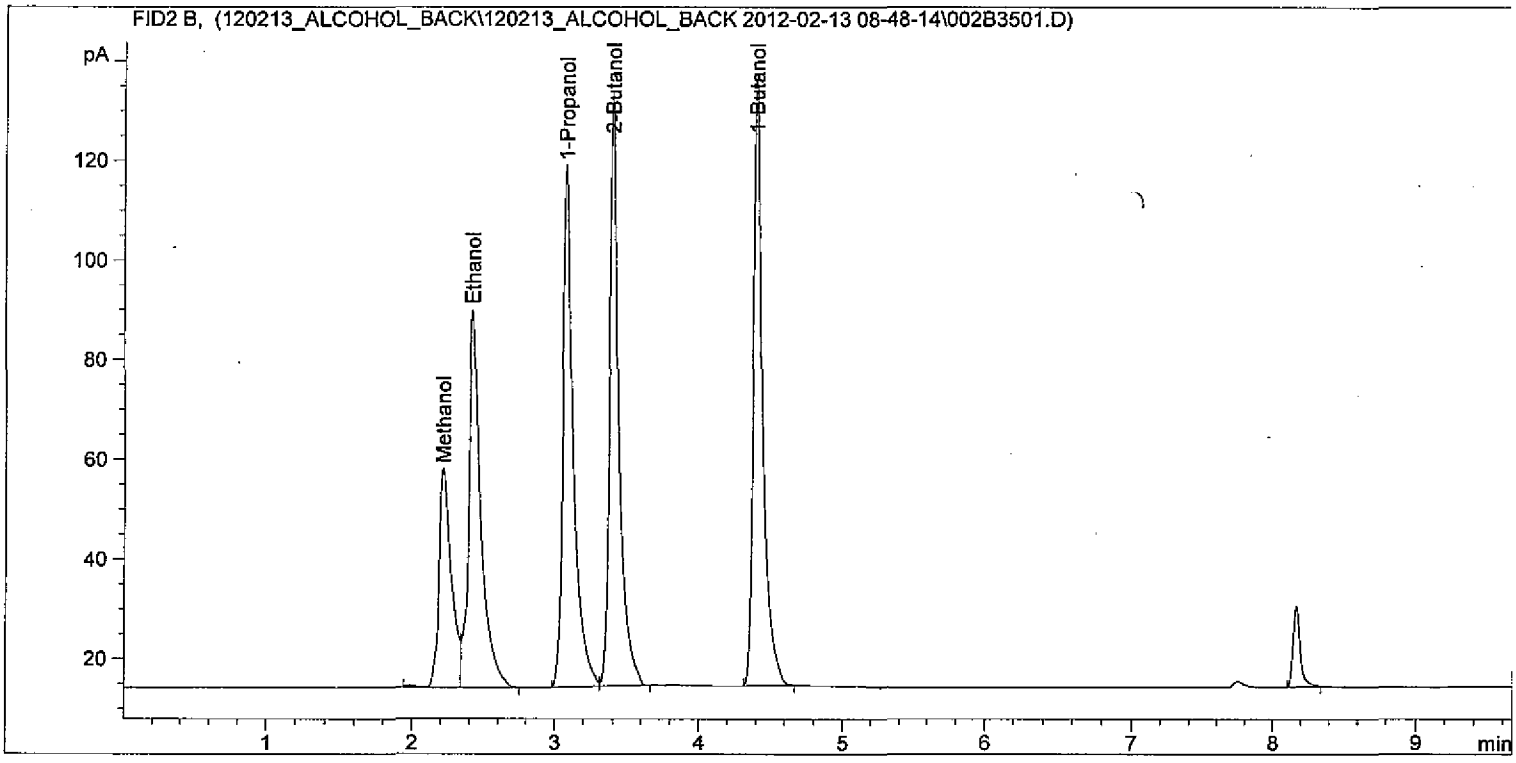
==========

Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 2/13/2012 4:37:54 PM

Seq. Line : 35
Location : Vial 2
Inj : 1
Inj Volume : 0.8 µl

Acq. Method : C:\CHEM32\1\DATA\120213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120213.M
Last changed : 2/16/2012 8:53:24 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 : 2/15/2012 3:48:43 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	%D
2.214	BV	266.49615	3.74658e-1	99.84480		Methanol	0.155
2.420	VB	446.34631	2.09603e-1	93.55560		Ethanol	6.44
3.075	BV	525.52563	1.78658e-1	93.88920		1-Propanol	6.11

> PASS

Data File C:\CHEM32\...213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\002B3501.D
Sample Name: CCV3

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name	%D
3.396	VB	532.39679	1.76559e-1	93.99946		2-Butanol	6.00
4.397	BB	567.62463	1.65467e-1	93.92318		1-Butanol	6.08
Totals :				475.21224			

> poss

*** End of Report ***

all poss

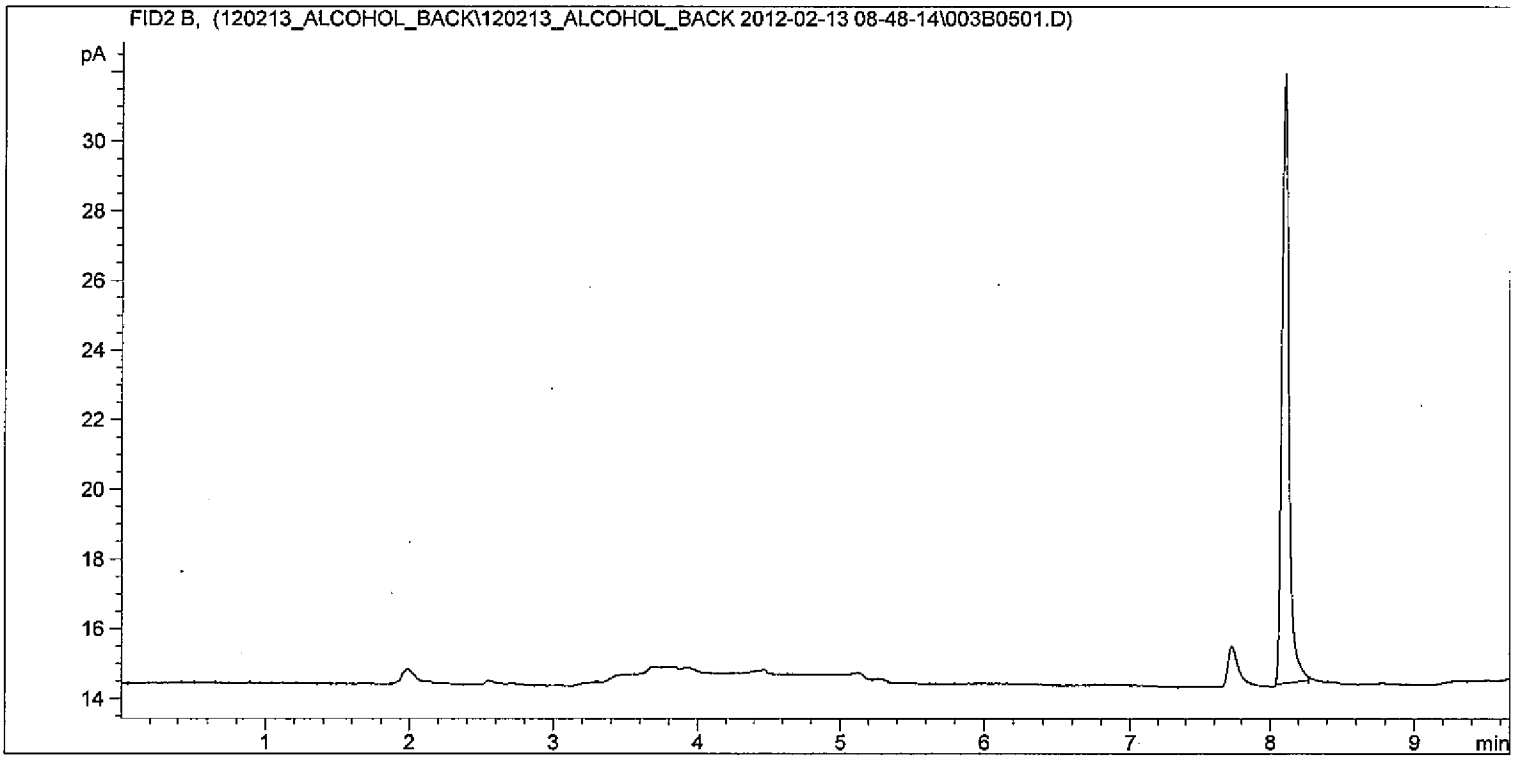
ACM

Data File C:\CHEM32\...213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\003B0501.D
Sample Name: BB21301-BLK1

==========

Acq. Operator : ACM
Seq. Line : 5
Acq. Instrument : AG3-6890N
Location : Vial 3
Injection Date : 2/13/2012 9:46:15 AM
Inj : 1
Inj Volume : 0.8 µl
Acq. Method : C:\CHEM32\1\DATA\120213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120213.M
Last changed : 2/16/2012 8:53:24 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 : 2/15/2012 3:48:43 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		-	-	-		Methanol
2.425		-	-	-		Ethanol
3.079		-	-	-		1-Propanol

Data File C:\CHEM32\...213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\003B0501.D
Sample Name: BB21301-BLK1

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
3.401		-	-	-		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 : 2/15/2012 3:48:43 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	2.217		0.0000	0.00000	0.00000	Methanol
2	2.425		0.0000	0.00000	0.00000	Ethanol
3	3.079		0.0000	0.00000	0.00000	1-Propanol
4	3.401		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 ***

Pass

Acn

Data File C:\CHEM32\...213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\004B0601.D
Sample Name: BB21301-BS1

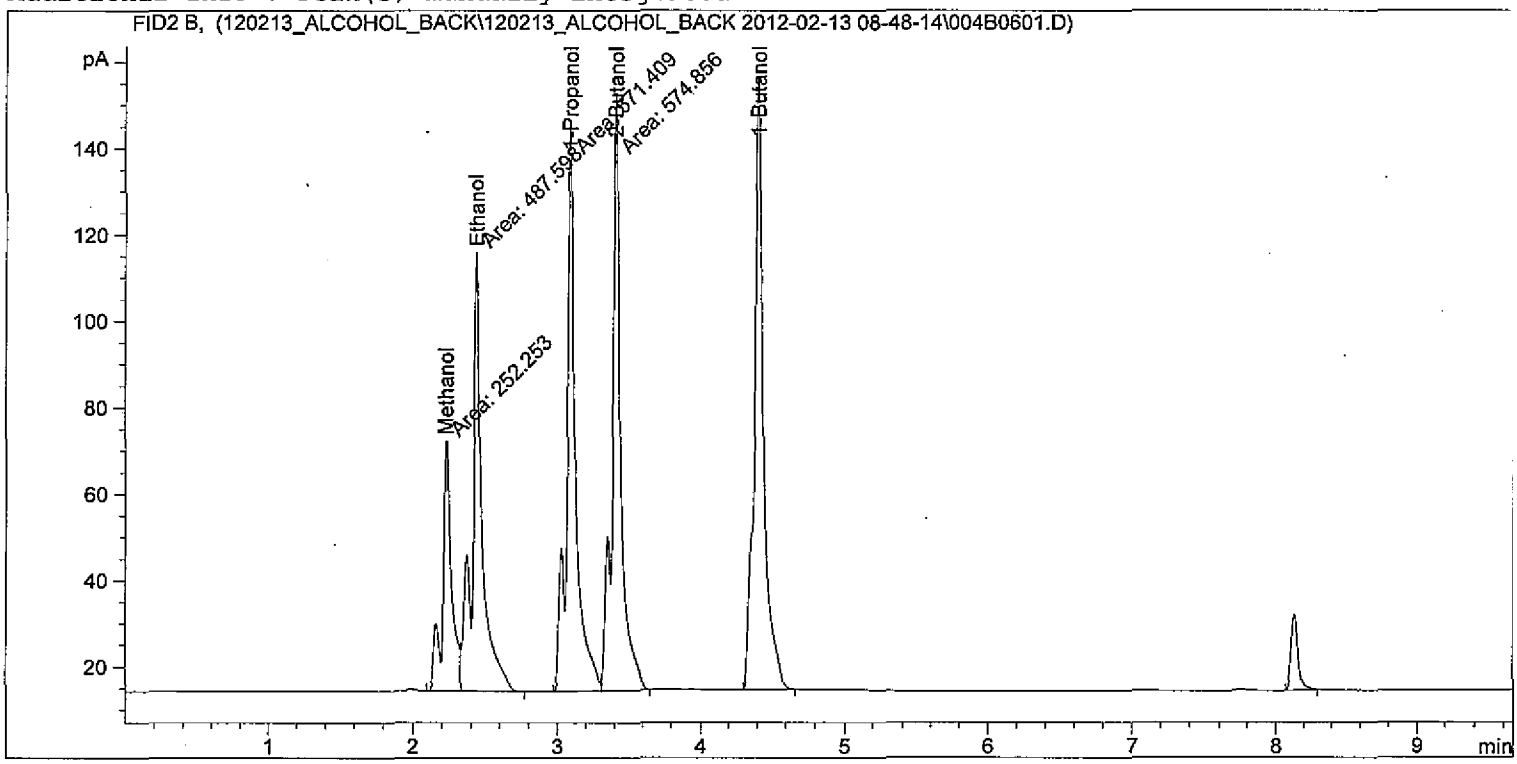
==========

Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 2/13/2012 9:59:58 AM

Seq. Line : 6
Location : Vial 4
Inj : 1
Inj Volume : 0.8 µl

Acq. Method : C:\CHEM32\1\DATA\120213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120213.M
Last changed : 2/16/2012 8:53:24 AM by ACM
Method Info : FID method for Alcohol analysis

Additional Info : Peak(s) manually integrated



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 2/15/2012 3:48:43 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	%Rec
2.229	MF	252.25304	3.74285e-1	94.41456		Methanol	94.4
2.437	FM	487.59848	2.09517e-1	102.16026		Ethanol	102.2
3.093	MF	571.40851	1.78756e-1	102.14265		1-Propanol	102.1
3.412	FM	574.85565	1.76645e-1	101.54537		2-Butanol	101.5
4.409	BB	633.07086	1.65551e-1	104.80564		1-Butanol	104.8

pass

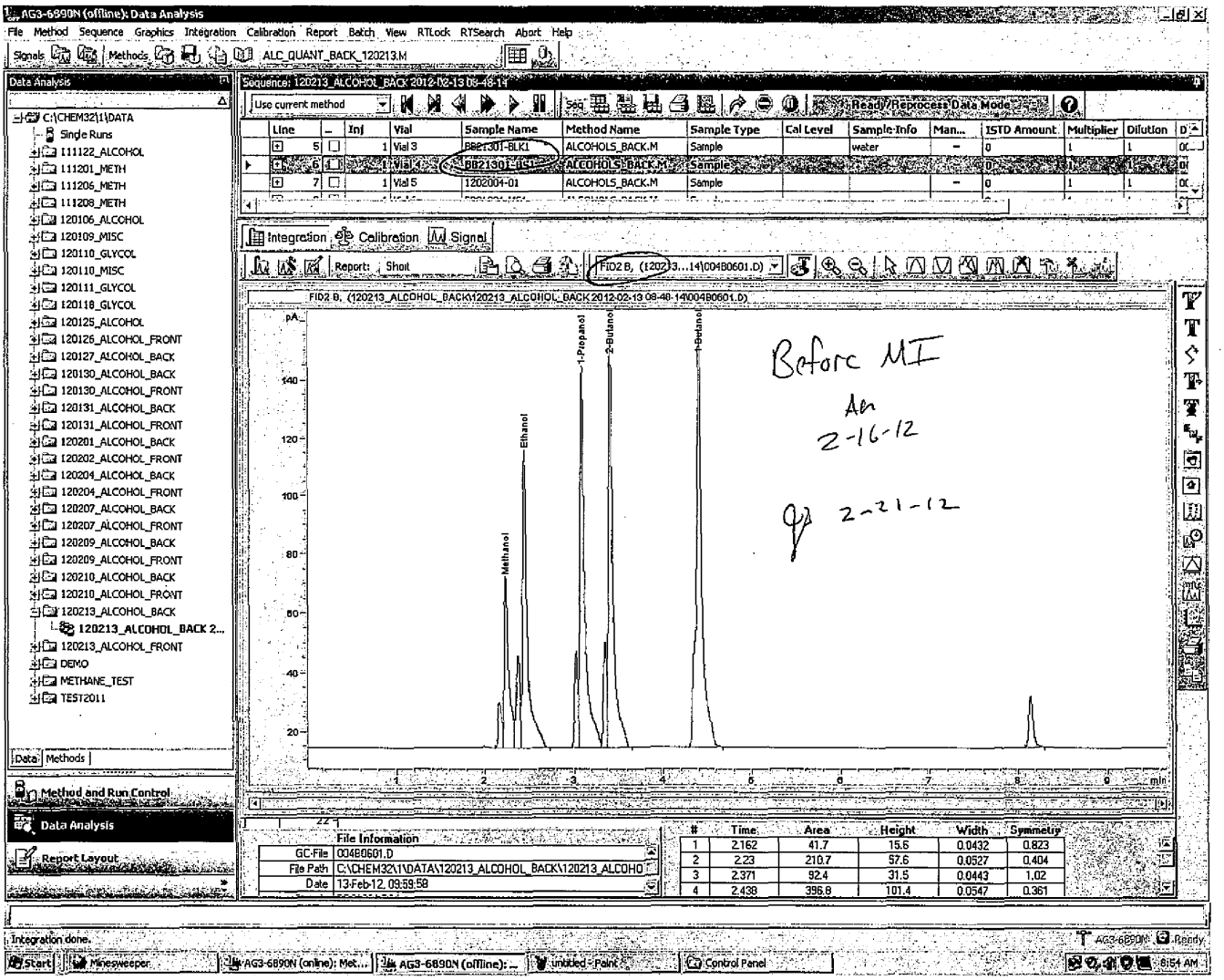
Data File C:\CHEM32\...213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\004B0601.D
Sample Name: BB21301-BS1

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [ug/mL]	Grp	Name
Totals :				505.06847		

*** End of Report ***

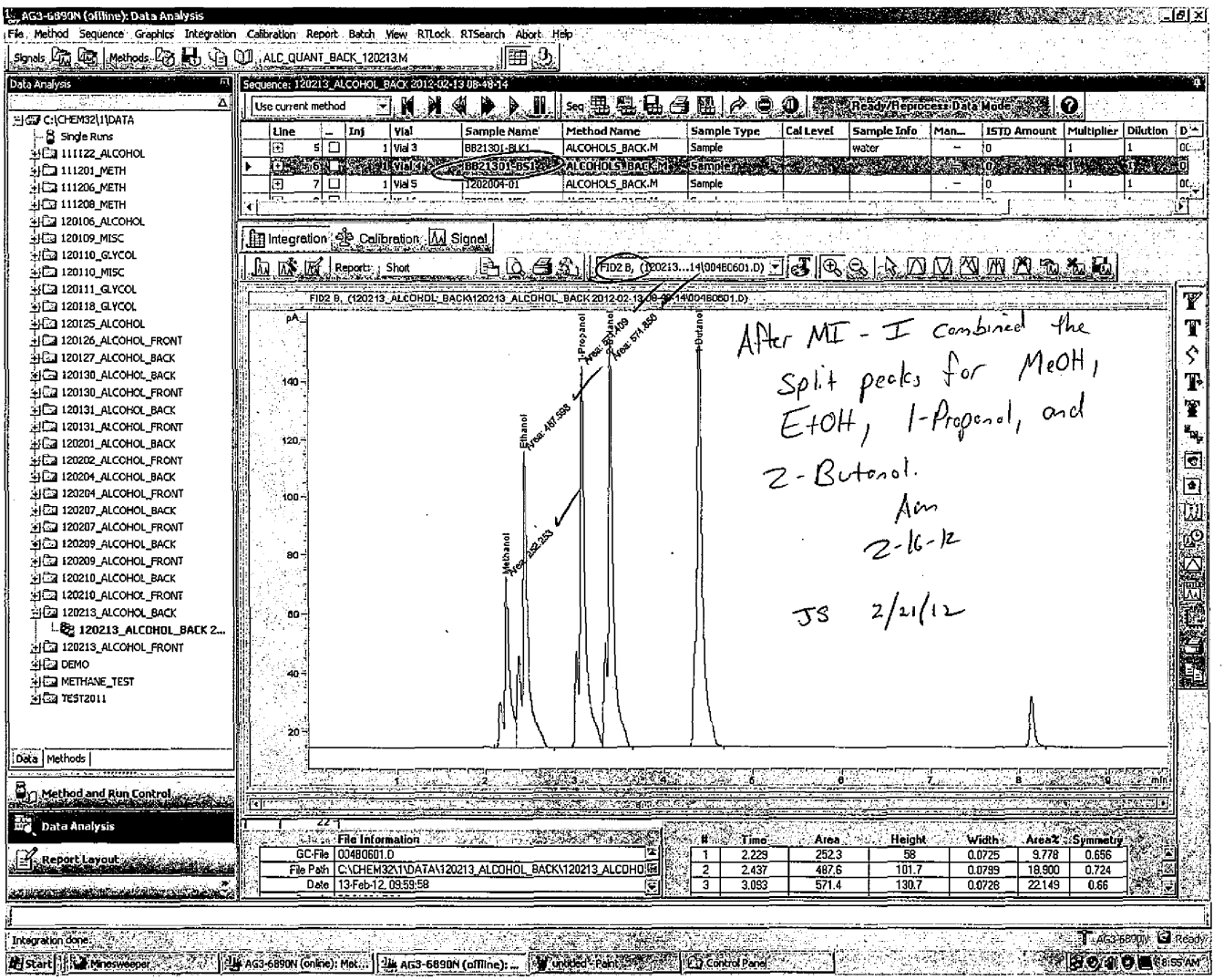
ACM

BB21301 BS1 — MI 1



DIM0209516 DIM0209767

BB21301 BS1 — MI 1



Data File C:\CHEM32\...213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\006B0801.D
Sample Name: BB21301-MS1

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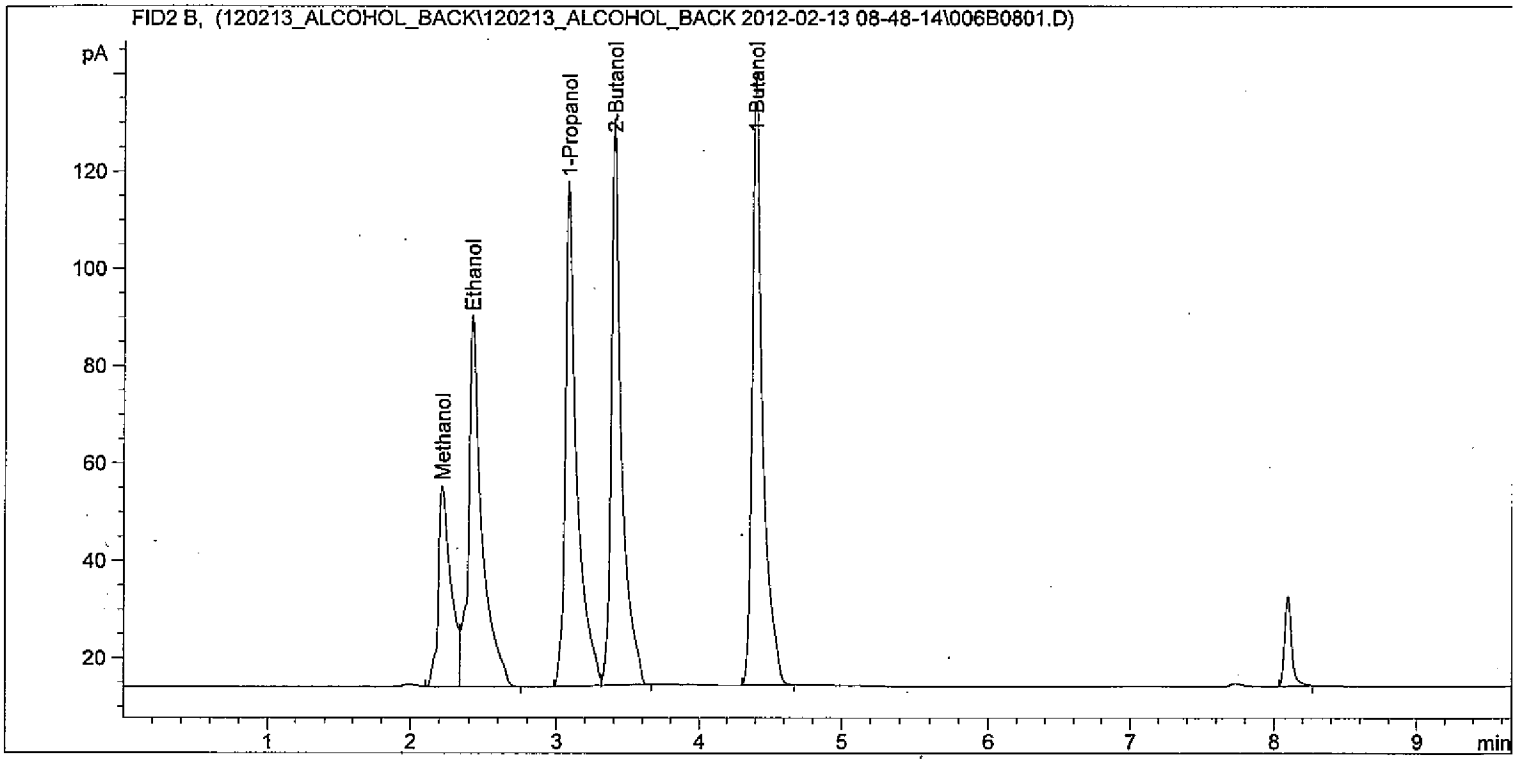
Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 2/13/2012 10:27:19 AM
Seq. Line : 8
Location : Vial 6
Inj : 1
Inj Volume : 0.8 µl
Acq. Method : C:\CHEM32\1\DATA\120213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120213.M
Last changed : 2/16/2012 8:53:24 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 : 2/15/2012 3:48:43 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	%Rec
2.216	VV	246.68939	3.74128e-1	92.29340		Methanol	92.3
2.424	VB	484.84229	2.09522e-1	101.58535		Ethanol	101.6
3.081	BV	567.50140	1.78748e-1	101.43984		1-Propanol	101.4
3.399	VB	569.07788	1.76634e-1	100.51852		2-Butanol	100.5
4.396	BB	631.36664	1.65549e-1	104.52226		1-Butanol	104.5

pass

Totals : 500.35937

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*** End of Report ***

pass all

Acm

Data File C:\CHEM32\...213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\007B0901.D
Sample Name: BB21301-MSD1

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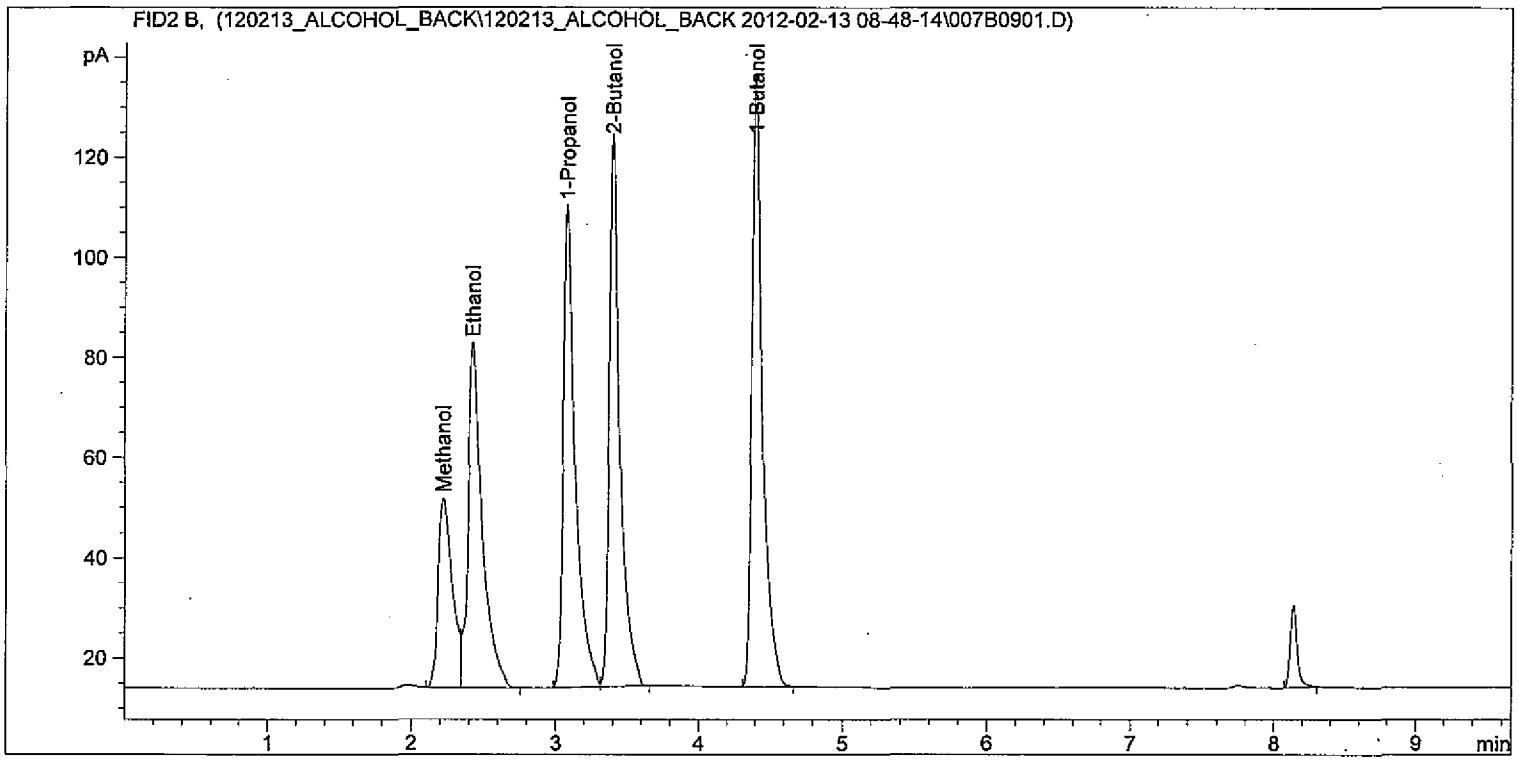
Acq. Operator : ACM
Acq. Instrument : AG3-6890N
Injection Date : 2/13/2012 10:41:02 AM

Seq. Line : 9
Location : Vial 7
Inj : 1
Inj Volume : 0.8 µl

Acq. Method : C:\CHEM32\1\DATA\120213_ALCOHOL_BACK\120213_ALCOHOL_BACK 2012-02-13 08-48-14\ALCOHOLS_BACK.M
Last changed : 1/27/2012 3:30:25 PM by ACM
Analysis Method : C:\CHEM32\1\METHODS\ALC_QUANT_BACK_120213.M
Last changed : 2/16/2012 8:53:24 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 : 2/15/2012 3:48:43 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
2.217	VV	255.99388	3.74387e-1	95.84077		Methanol	95.8
2.421	VB	469.73764	2.09553e-1	98.43472		Ethanol	98.4
3.077	BV	561.37811	1.78736e-1	100.33837		1-Propanol	100.3
3.396	VB	564.27655	1.76625e-1	99.66522		2-Butanol	99.7
4.397	BB	626.35352	1.65543e-1	103.68867		1-Butanol	103.7

pass

Totals : 497.96776

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*** End of Report ***

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

$$MeOH = \left[\frac{|95.8 - 92.3|}{Avg(95.8, 92.3)}\right]100 = \left[\frac{3.5}{94.05}\right]100 = 3.72\%$$

$$EtOH = \left[\frac{|101.6 - 98.4|}{Avg(101.6, 98.4)}\right]100 = \left[\frac{3.2}{100}\right]100 = 3.20\%$$

$$1\text{-Propanol} = \left[\frac{|101.4 - 100.3|}{Avg(101.4, 100.3)}\right]100 = \left[\frac{1.1}{100.85}\right]100 = 1.09\%$$

$$2\text{-Butanol} = \left[\frac{|100.5 - 99.7|}{Avg(100.5, 99.7)}\right]100 = \left[\frac{0.8}{100.1}\right]100 = 0.799\%$$

$$1\text{-Butanol} = \left[\frac{|104.5 - 103.7|}{Avg(104.5, 103.7)}\right]100 = \left[\frac{0.8}{104.1}\right]100 = 0.768\%$$

all pass

Acm