

Quantitative Analysis for Ethanol & Qualitative Analysis for Other Volatiles

Analytical Method(s): 1.0

Device: Hamilton MICROLAB Liquid Processor/Dilutor Serial Number: ML600GB9897

Volatiles Quality Assurance Controls Run Date(s): 10/21/2021

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Jul-23	1907006	0.0764	0.0688-0.0840	0.0765 g/100cc g/100cc g/100cc
Level 2	Jul-23	1907007	0.2170	0.1953-0.2387	0.2098 g/100cc 0.2102 g/100cc g/100cc
Multi-Component mixture:		Lot #	FN06041902		ok
Curve Fit:		Column 1	0.99982	Column2	0.99955

Ethanol Calibration Reference Material

Calibrator level	Target Value	Acceptable Range	Column 1	Column 2	Precision	Mean
50	0.050	0.045 - 0.055	0.0531	0.0546	0.002	0.0538
100	0.100	0.090 - 0.110	0.0990	0.0992	0.0002	0.0991
200	0.200	0.180 - 0.220	0.1972	0.1957	0.0015	0.1964
300	0.300	0.270 - 0.330	0.2989	0.2973	0.0016	0.2981
400	0.400	0.360 - 0.440			0	#DIV/0!
500	0.500	0.450 - 0.550	0.5015	0.5029	0.0014	0.5022

Aqueous Controls

Control level	Target Value	Acceptable Range	Overall Results
80	0.080	0.076 - 0.084	0.082 g/100cc

REVIEWED
By RCutler at 10:24 am, Oct 27, 2021

Worklist: 5309

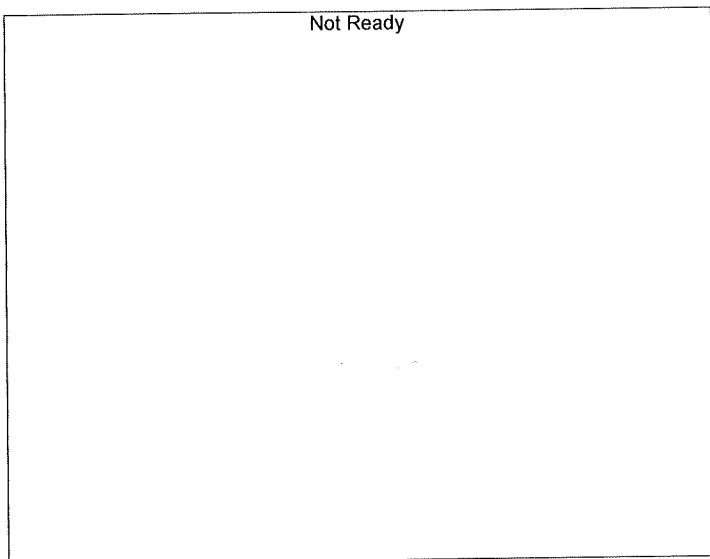
<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
P2021-3144	1	BCK	Alcohol Analysis	
P2021-3146	1	BCK	Alcohol Analysis	
P2021-3147	1	BCK	Alcohol Analysis	
P2021-3245	1	BCK	Alcohol Analysis	
P2021-3258	1	BCK	Alcohol Analysis	
P2021-3259	1	BCK	Alcohol Analysis	
P2021-3344	2	BCK	Alcohol Analysis	
P2021-3355	1	BCK	Alcohol Analysis	
P2021-3371	1	BCK	Alcohol Analysis	
P2021-3372	1	BCK	Alcohol Analysis	
P2021-3373	1	BCK	Alcohol Analysis	
P2021-3373	2	BCK	Alcohol Analysis	
P2021-3374	1	BCK	Alcohol Analysis	
P2021-3378	1	BCK	Alcohol Analysis	
P2021-3394	1	BCK	Alcohol Analysis	
P2021-3397	1	BCK	Alcohol Analysis	
P2021-3400	1	BCK	Alcohol Analysis	
P2021-3401	1	BCK	Alcohol Analysis	
P2021-3403	1	BCK	Alcohol Analysis	

TS

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Calibration Table
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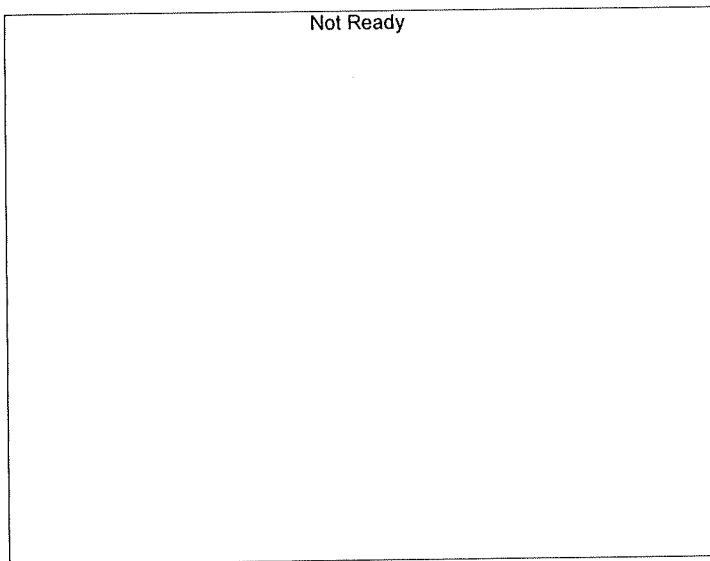
Laboratory: Pocatello
Instrument Name : GC2030-HS20

<<Data File>>
Method File :C:\LabSolutions\Data\2021\10-21-21 TSV\ALCOHOL.gcm ✓
Batch File :C:\LabSolutions\Data\2021\10-21-21 TSV\10-21-21_TS.gcb
Date Acquired :10/21/2021 12:58:37 PM
Date Created :10/21/2021 12:55:43 PM
Date Modified :10/26/2021 9:09:20 AM



Name : METHANOL
Detector Name: FID1
Function : $f(x)=0*x+0$
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

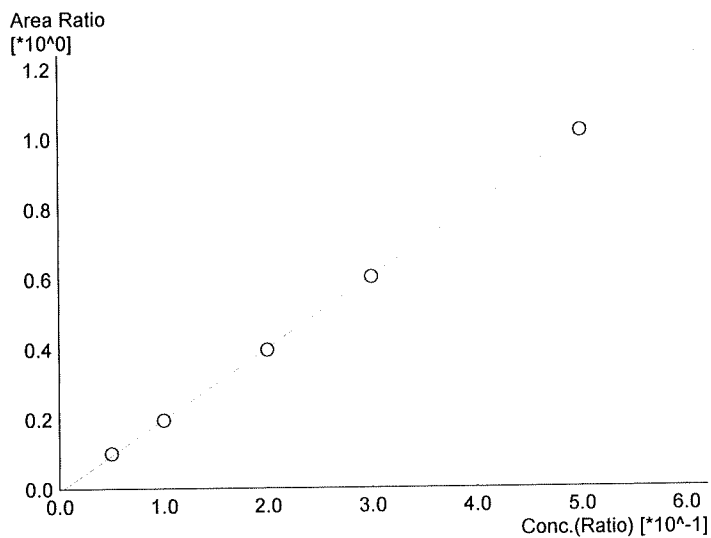
#	Conc.	Area	Std. Conc.
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Name : ACETALDEHYDE
Detector Name: FID1
Function : $f(x)=0*x+0$
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

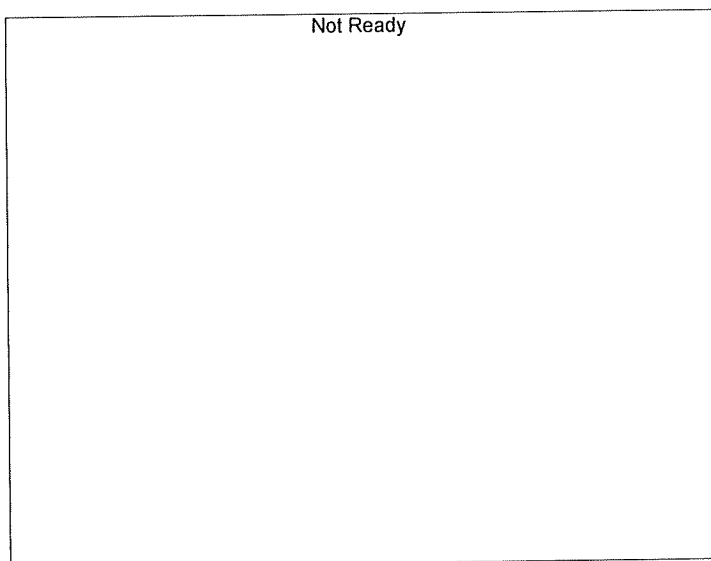
#	Conc.	Area	Std. Conc.
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TS



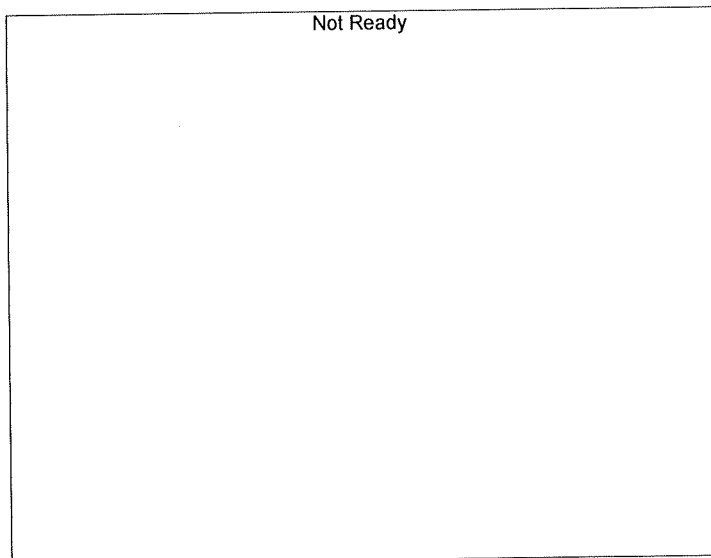
Name : ETHANOL
 Detector Name: FID1
 Function : $f(x)=2.04192*x-0.00749203$
 R² value= 0.9998296 ✓
 FitType: Linear
 ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
1	0.050	15039	0.0531
2	0.100	30822	0.0990
3	0.200	62461	0.1972
4	0.300	95447	0.2989
5	0.500	155626	0.5015



Name : ISOPROPYL ALCOHOL
 Detector Name: FID1
 Function : $f(x)=0*x+0$
 R² value= 0
 FitType: Linear
 ZeroThrough: Not Through

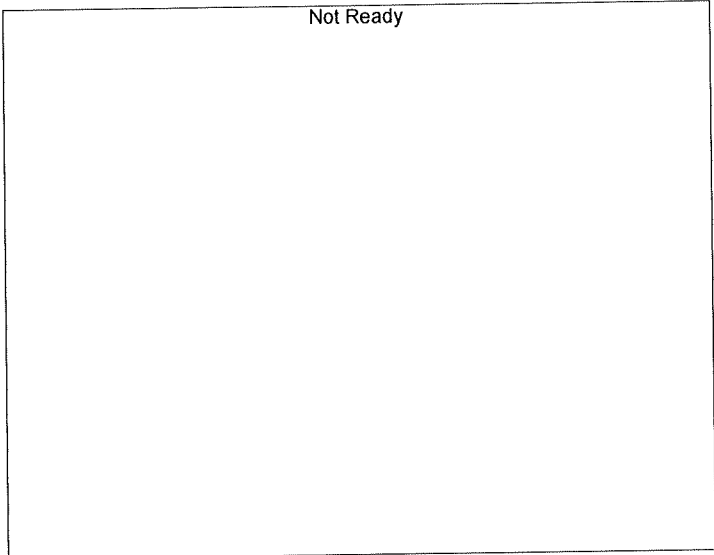
#	Conc.	Area	Std. Conc.
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Name : ACETONE
 Detector Name: FID1
 Function : $f(x)=0*x+0$
 R² value= 0
 FitType: Linear
 ZeroThrough: Not Through

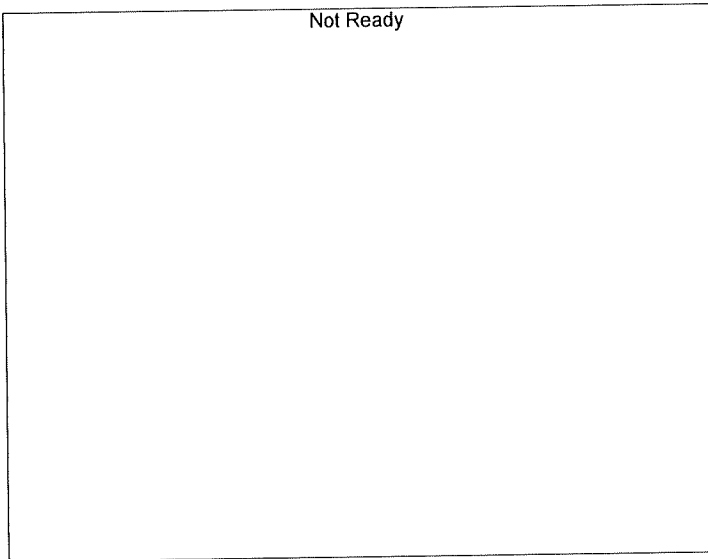
#	Conc.	Area	Std. Conc.
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TS



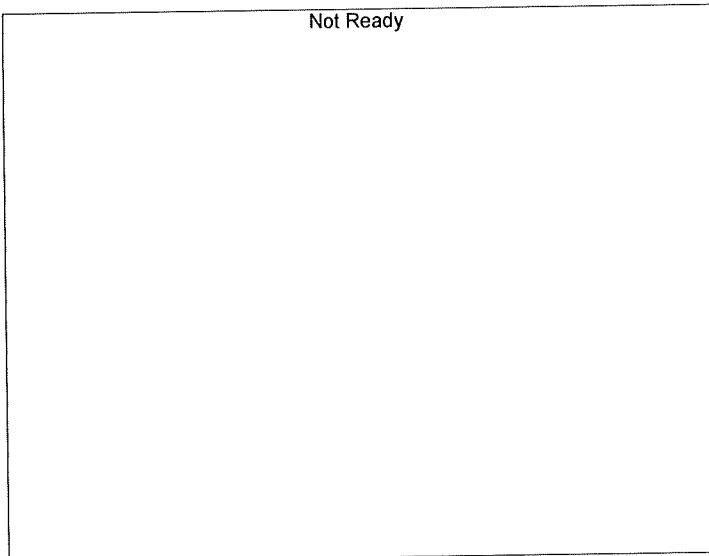
Name : FLUORINATED HYDROCARBONS
Detector Name: FID1
Function : $f(x)=0*x+0$
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
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Name : ACETALDEHYDE
Detector Name: FID2
Function : $f(x)=0*x+0$
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

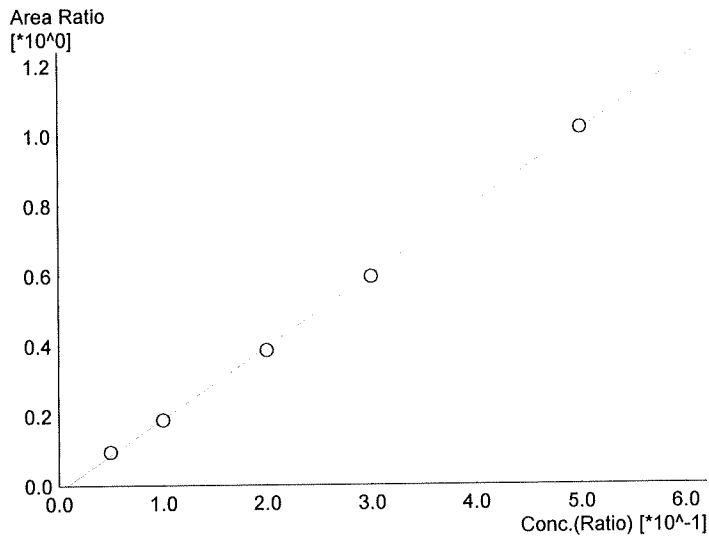
#	Conc.	Area	Std. Conc.
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Name : METHANOL
Detector Name: FID2
Function : $f(x)=0*x+0$
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

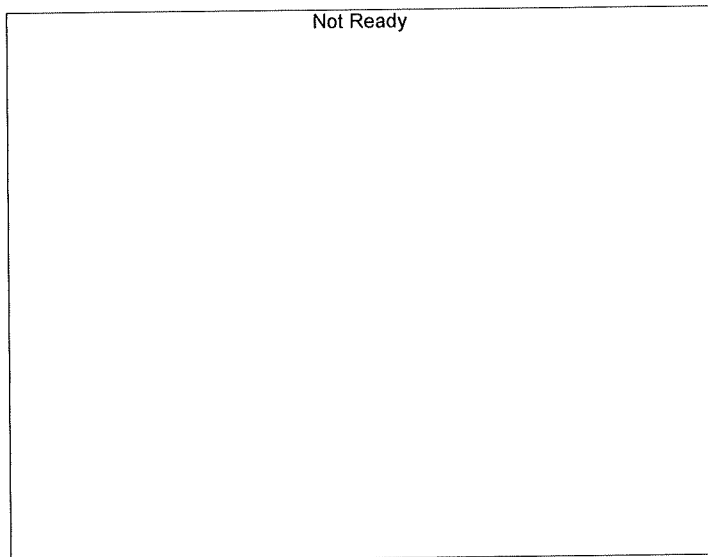
#	Conc.	Area	Std. Conc.
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TS



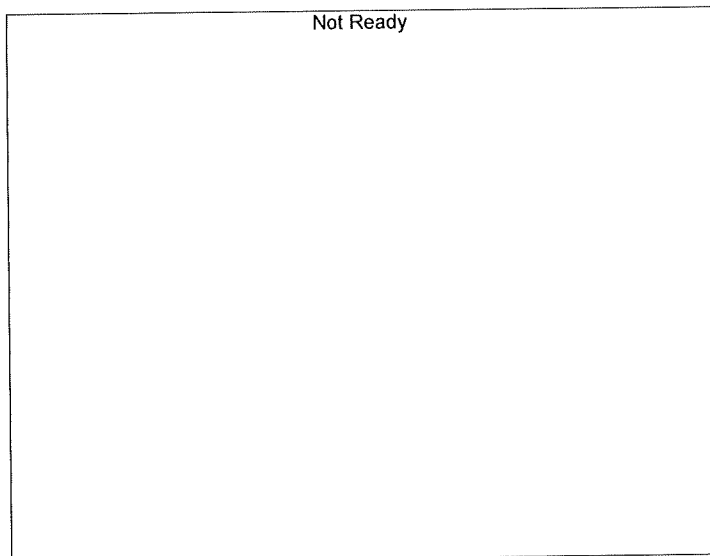
Name : ETHANOL
 Detector Name: FID2
 Function : $f(x)=2.05642*x-0.0168793$
 R^2 value= 0.9995578 ✓
 FitType: Linear
 ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
1	0.050	14930	0.0546
2	0.100	31069	0.0992
3	0.200	63738	0.1957
4	0.300	98026	0.2973
5	0.500	162145	0.5029



Name : ACETONE
 Detector Name: FID2
 Function : $f(x)=0*x+0$
 R^2 value= 0
 FitType: Linear
 ZeroThrough: Not Through

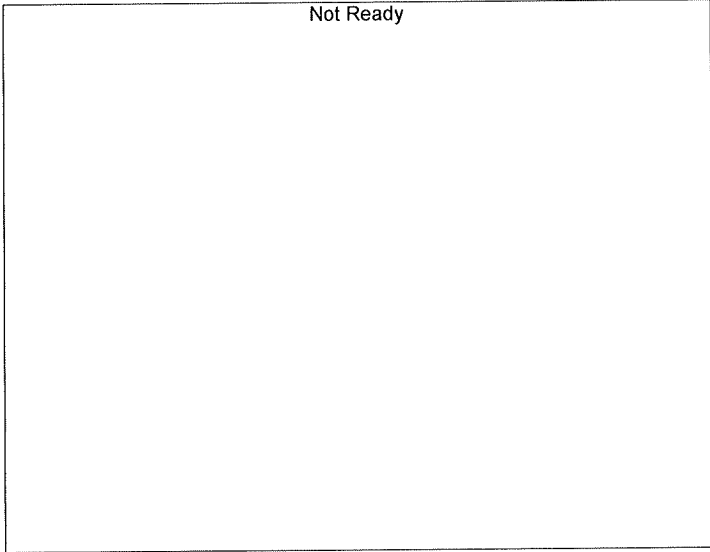
#	Conc.	Area	Std. Conc.
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Name : ISOPROPYL ALCOHOL
 Detector Name: FID2
 Function : $f(x)=0*x+0$
 R^2 value= 0
 FitType: Linear
 ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
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TS

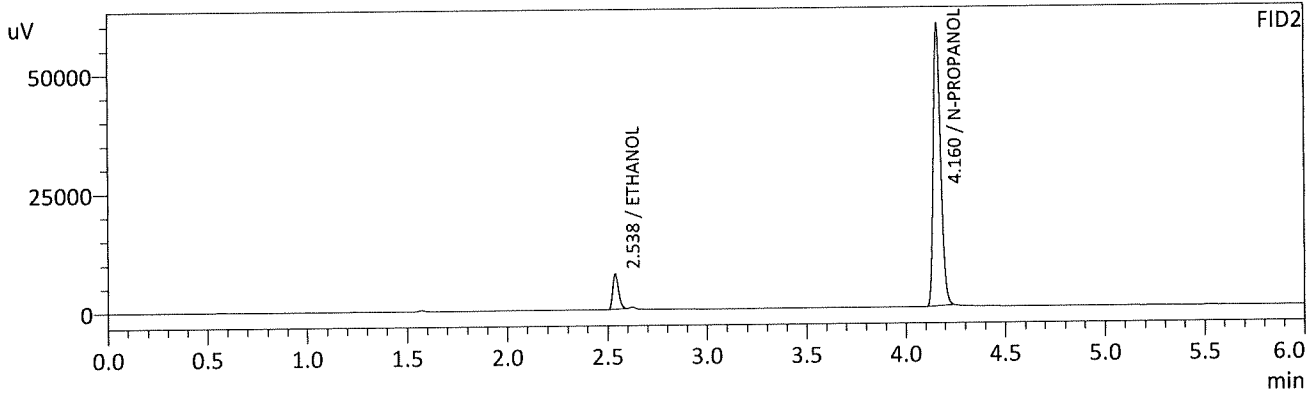
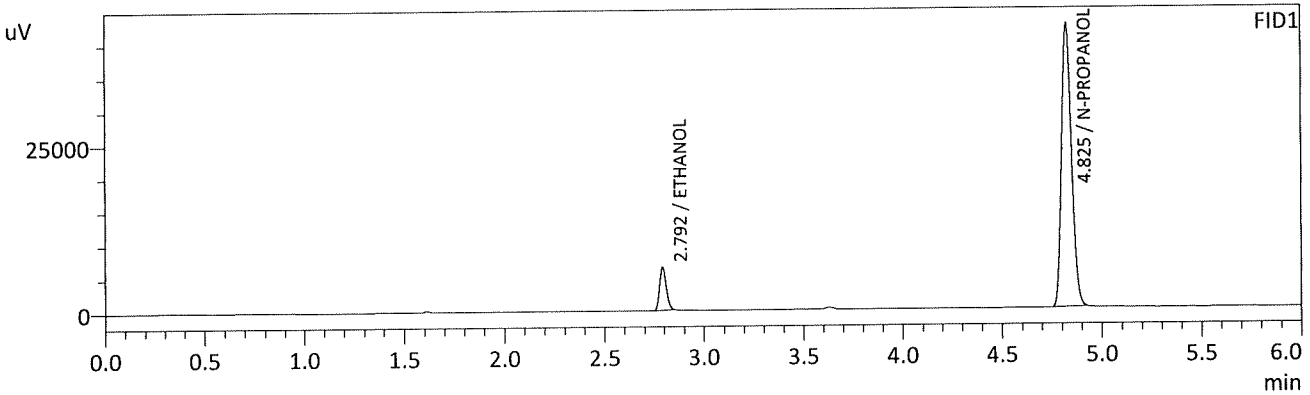


Name : FLUORINATED HYDROCARBONS
Detector Name: FID2
Function : $f(x)=0*x+0$
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
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TS

Sample Name : 0.050
 Vial # : 1
 Data Filename : 0.050_10212021_001.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 10-21-21_TS.gcb
 Date Acquired : 10/21/2021 12:23:19 PM
 Date Processed : 10/26/2021 9:09:15 AM
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FID1

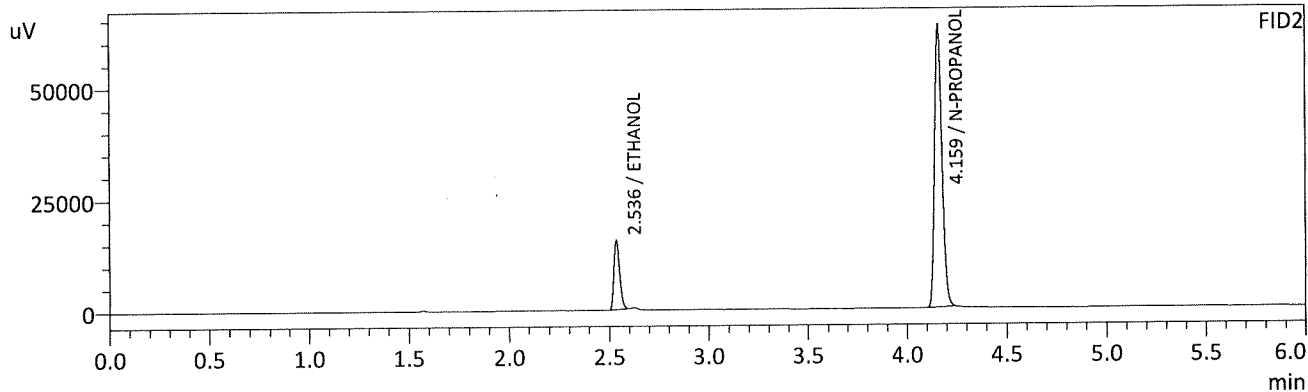
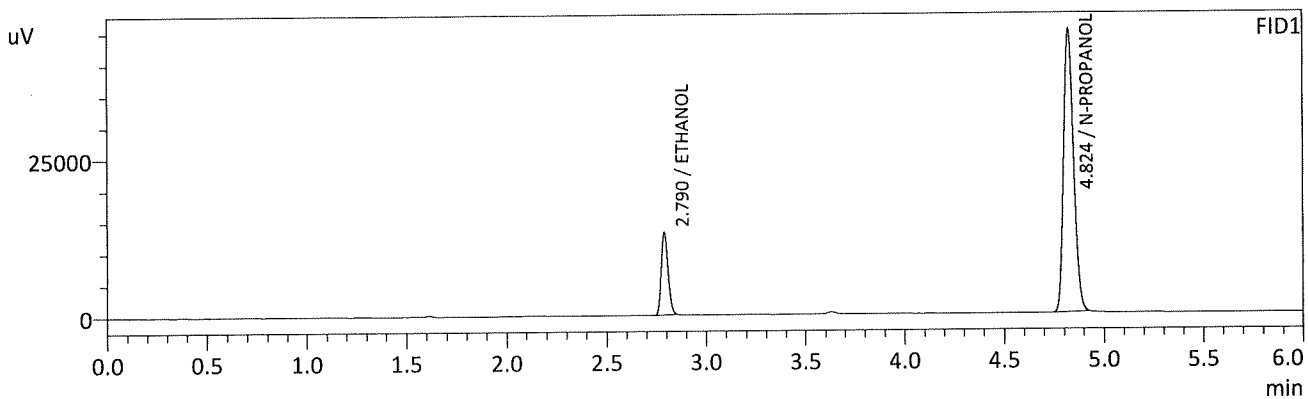
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0531	g/100cc	15039	6379
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	148936	42305
FLUORINATED HYDROCARBONS	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0546	g/100cc	14930	7429
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	156179	59241
FLUORINATED HYDROCARBONS	--	g/100cc	--	--

AS

Sample Name : 0.100
 Vial # : 2
 Data Filename : 0.100_10212021_002.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 10-21-21_TS.gcb
 Date Acquired : 10/21/2021 12:31:57 PM
 Date Processed : 10/26/2021 9:09:17 AM
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FID1

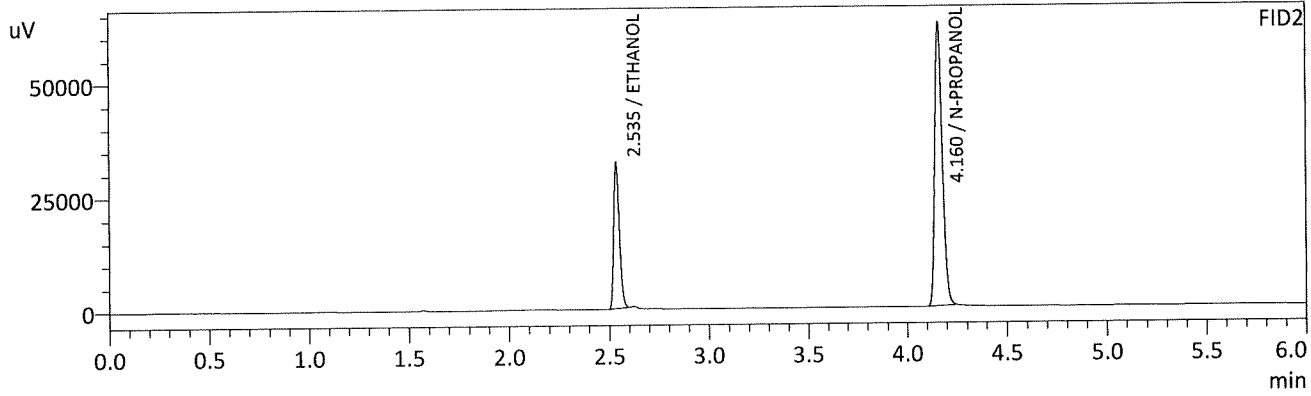
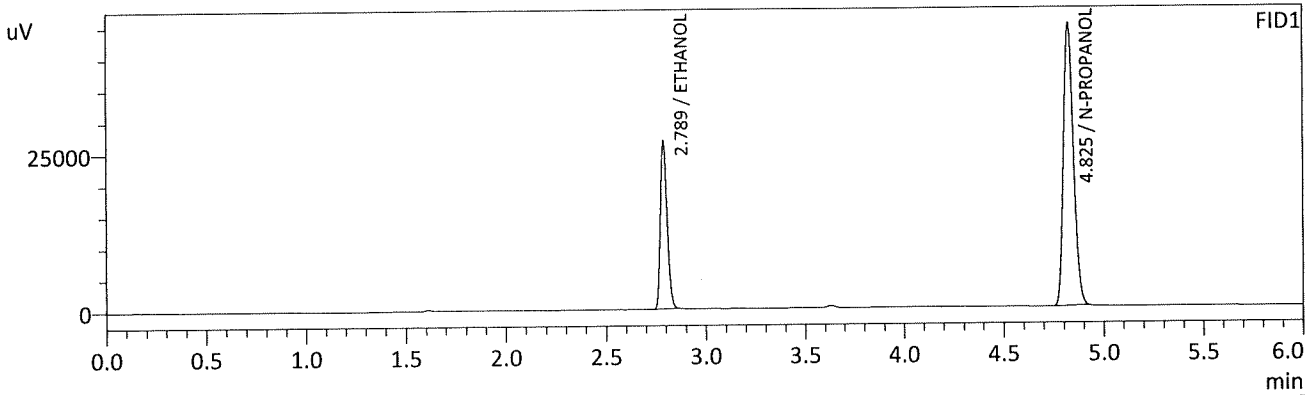
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0990	g/100cc	30822	13107
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	158217	44917
FLUORINATED HYDROCARBONS	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0992	g/100cc	31069	15490
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	165987	62872
FLUORINATED HYDROCARBONS	--	g/100cc	--	--

TS

Sample Name : 0.200
 Vial # : 3
 Data Filename : 0.200_10212021_003.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 10-21-21_TS.gcb
 Date Acquired : 10/21/2021 12:41:01 PM
 Date Processed : 10/26/2021 9:09:18 AM
 C:\LabSolutions\Data\2021\10-21-21 TS\ALCOHOL.gcm



FID1

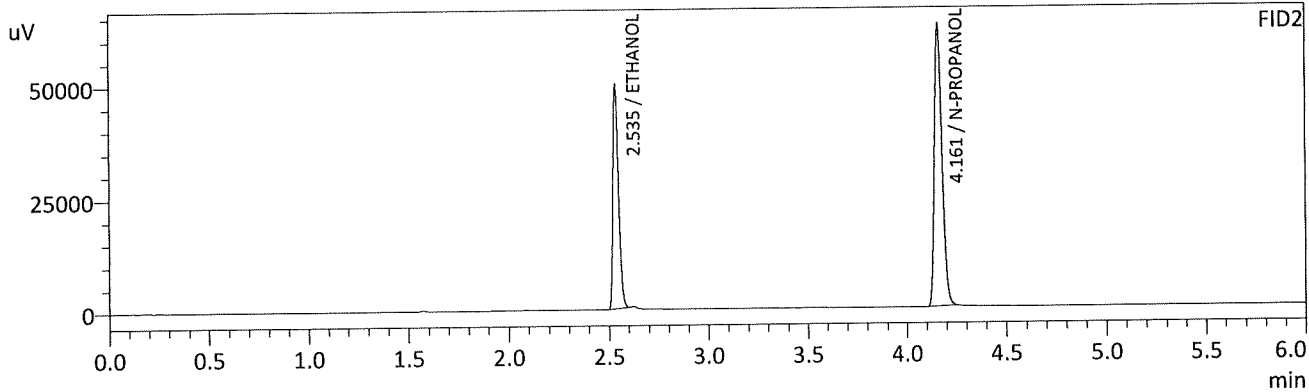
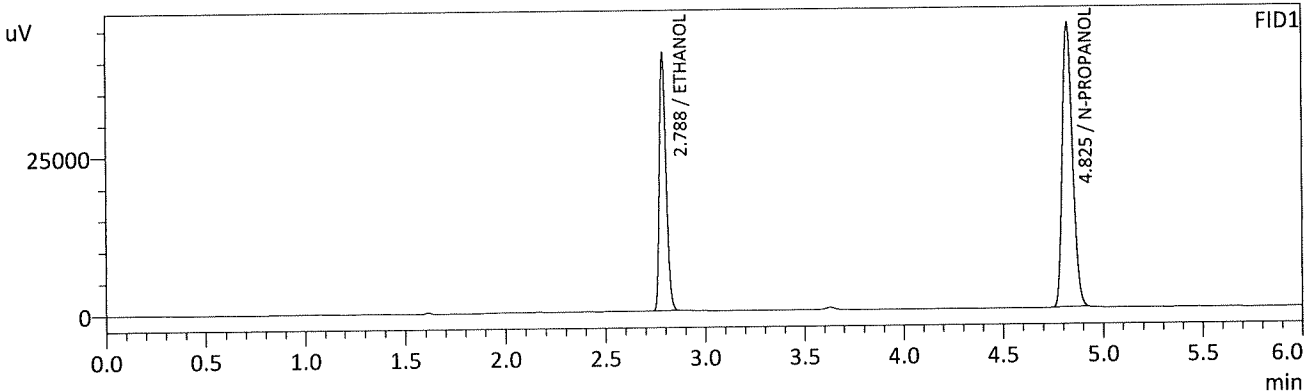
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.1972	g/100cc	62461	26643
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	158041	44790
FLUORINATED HYDROCARBONS	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.1957	g/100cc	63738	31919
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	165241	62320
FLUORINATED HYDROCARBONS	--	g/100cc	--	--

TS

Sample Name : 0.300
 Vial # : 4
 Data Filename : 0.300_10212021_004.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 10-21-21_TS.gcb
 Date Acquired : 10/21/2021 12:49:36 PM
 Date Processed : 10/26/2021 9:09:19 AM
 C:\LabSolutions\Data\2021\10-21-21 TS\ALCOHOL.gcm



FID1

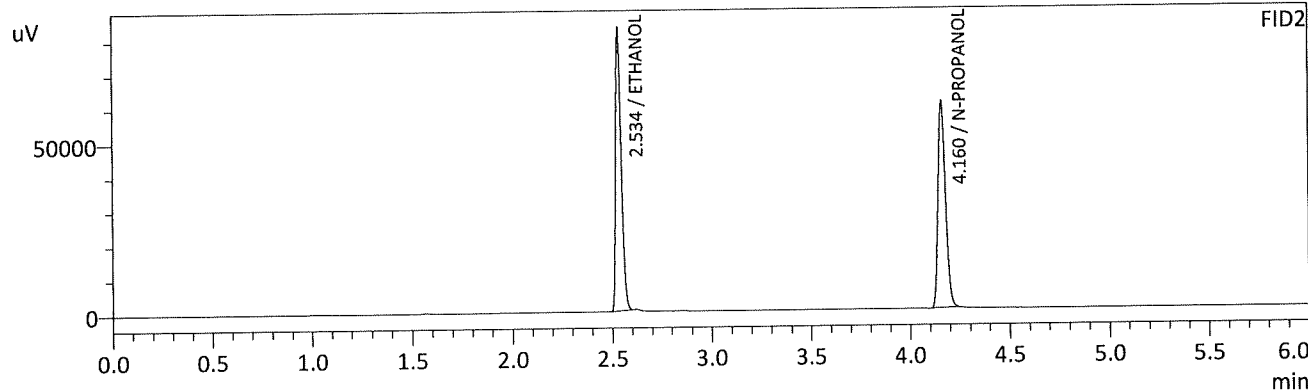
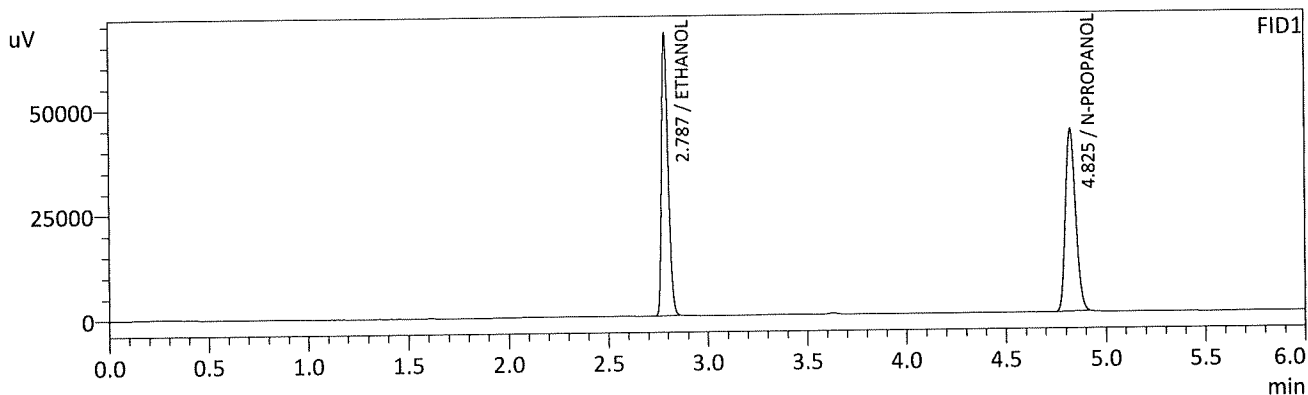
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.2989	g/100cc	95447	40783
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	158278	44956
FLUORINATED HYDROCARBONS	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.2973	g/100cc	98026	49373
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	164885	62621
FLUORINATED HYDROCARBONS	--	g/100cc	--	--

TS

Sample Name : 0.500
 Vial # : 5
 Data Filename : 0.500_10212021_005.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 10-21-21_TS.gcb
 Date Acquired : 10/21/2021 12:58:37 PM
 Date Processed : 10/26/2021 9:09:20 AM
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FID1

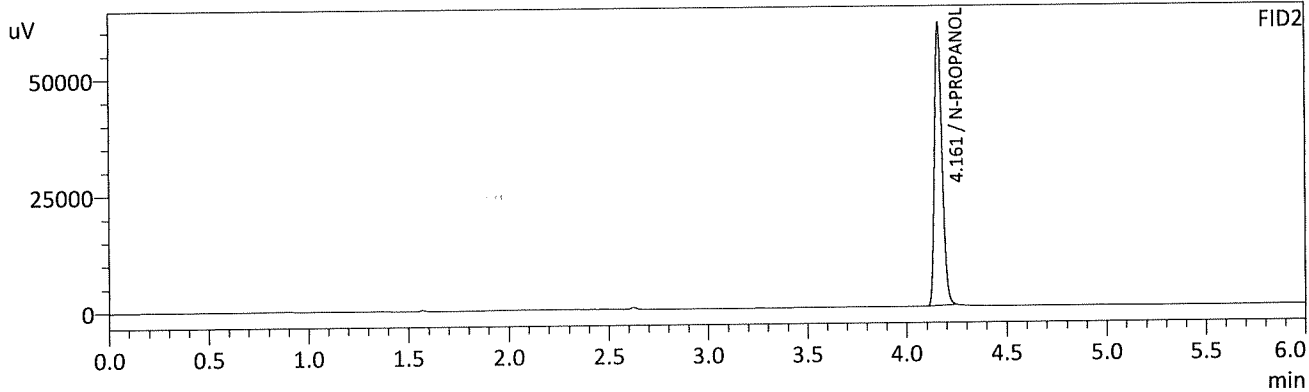
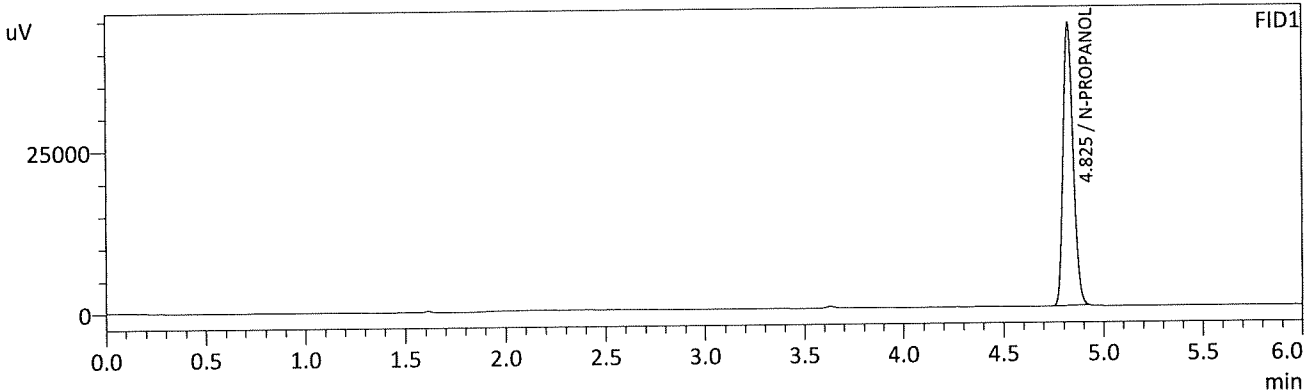
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.5015	g/100cc	155626	66853
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	153069	43501
FLUORINATED HYDROCARBONS	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.5029	g/100cc	162145	82088
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	159361	60650
FLUORINATED HYDROCARBONS	--	g/100cc	--	--

15

Sample Name : INT STD BLK 1
 Vial # : 6
 Data Filename : INT STD BLK 1_10212021_006.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 10-21-21_TS.gcb
 Date Acquired : 10/21/2021 1:07:30 PM
 Date Processed : 10/26/2021 9:09:22 AM
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FID1

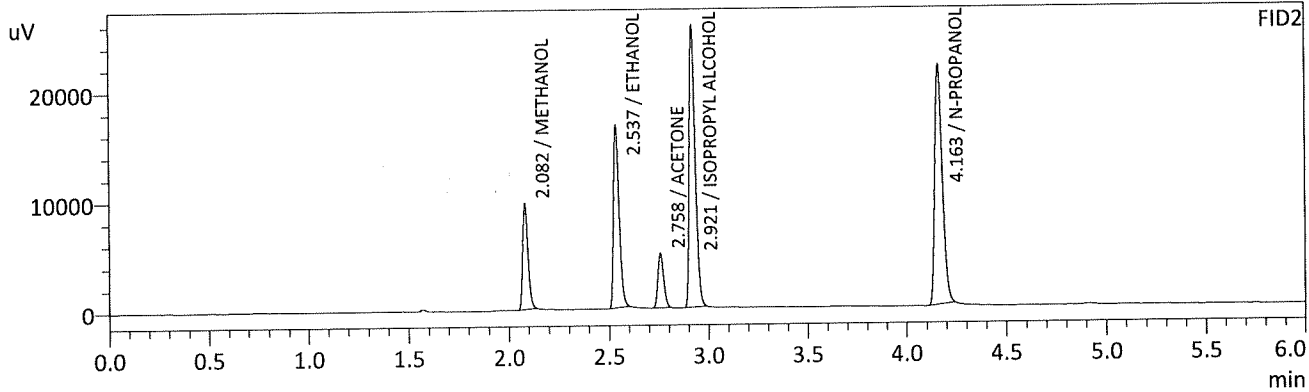
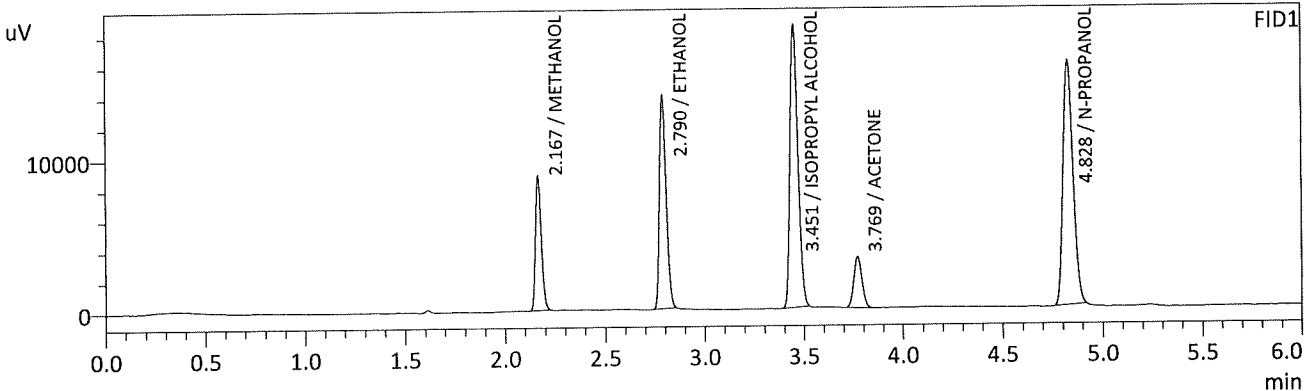
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	152860	43594
FLUORINATED HYDROCARBONS	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	160132	60722
FLUORINATED HYDROCARBONS	--	g/100cc	--	--

TS

Sample Name : MULTI-COMP MIX
 Vial # : 7
 Data Filename : MULTI-COMP MIX_10212021_007.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 10-21-21_TS.gcb
 Date Acquired : 10/21/2021 1:16:14 PM
 Date Processed : 10/26/2021 9:09:23 AM
 C:\LabSolutions\Data\2021\10-21-21 TS\ALCOHOL.gcm



FID1

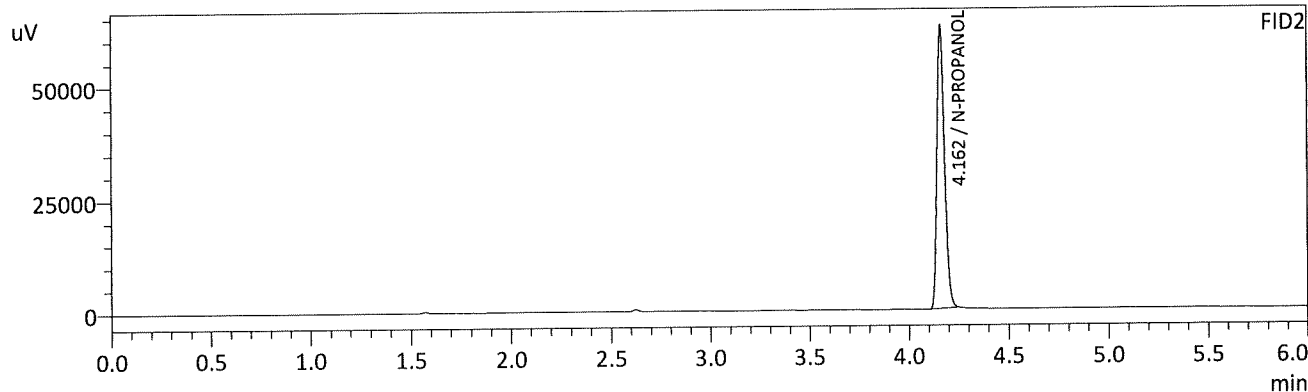
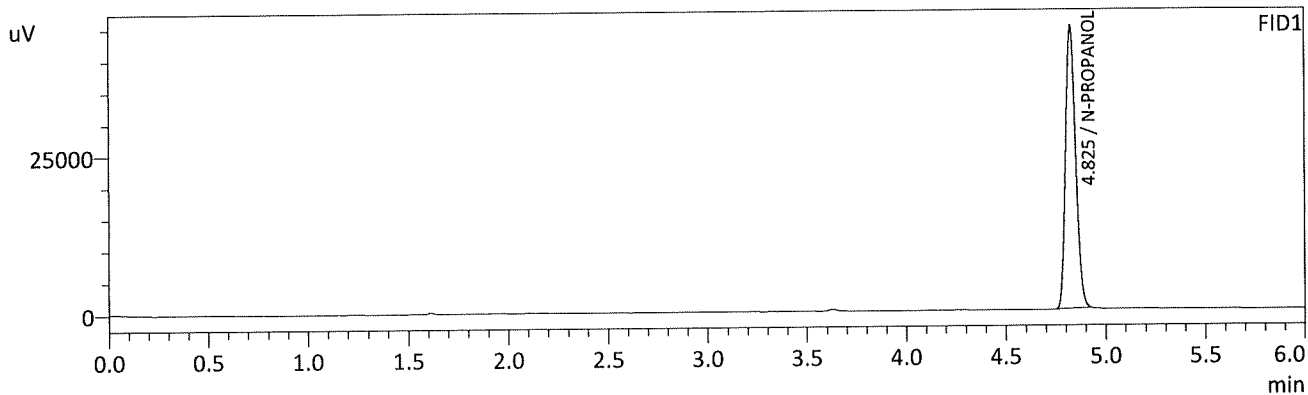
Name	Conc.	Unit	Area	Height
METHANOL	0.0000	g/100cc	17820	8743
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.2866	g/100cc	32368	13915
ISOPROPYL ALCOHOL	0.0000	g/100cc	51732	18460
ACETONE	0.0000	g/100cc	9691	3341
N-PROPANOL	0.0000	g/100cc	56012	15980
FLUORINATED HYDROCARBONS	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	0.0000	g/100cc	18030	9488
ETHANOL	0.2863	g/100cc	33018	16577
ACETONE	0.0000	g/100cc	9894	4910
ISOPROPYL ALCOHOL	0.0000	g/100cc	53911	25538
N-PROPANOL	0.0000	g/100cc	57736	21738
FLUORINATED HYDROCARBONS	--	g/100cc	--	--

TS

Sample Name : INT STD BLK 2
 Vial # : 8
 Data Filename : INT STD BLK 2_10212021_008.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 10-21-21_TS.gcb
 Date Acquired : 10/21/2021 1:25:10 PM
 Date Processed : 10/26/2021 9:09:25 AM
 C:\LabSolutions\Data\2021\10-21-21 TS\ALCOHOL.gcm



FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	157506	44632
FLUORINATED HYDROCARBONS	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	164790	62314
FLUORINATED HYDROCARBONS	--	g/100cc	--	--

TS

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC 1-1

Analysis Date(s): 10/21/2021

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0765	0.0770	0.0005	0.0767	0.0004	0.0765
(g/100cc)	0.0759	0.0767	0.0008	0.0763		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

Refer to Instrument Method: Alcohol.m/.gcm, Volatiles.m/.gcm

Reporting of Results

Uncertainty of Measurement (UM%): 5.00%

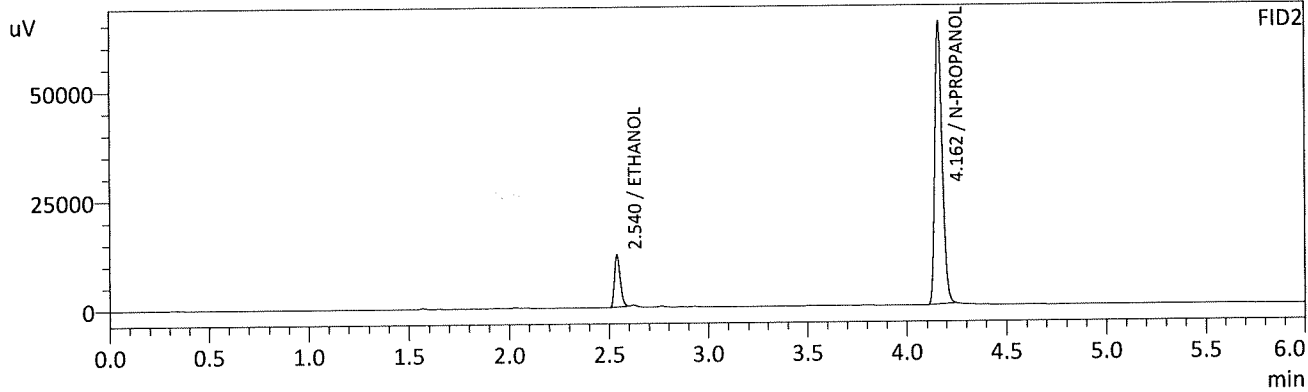
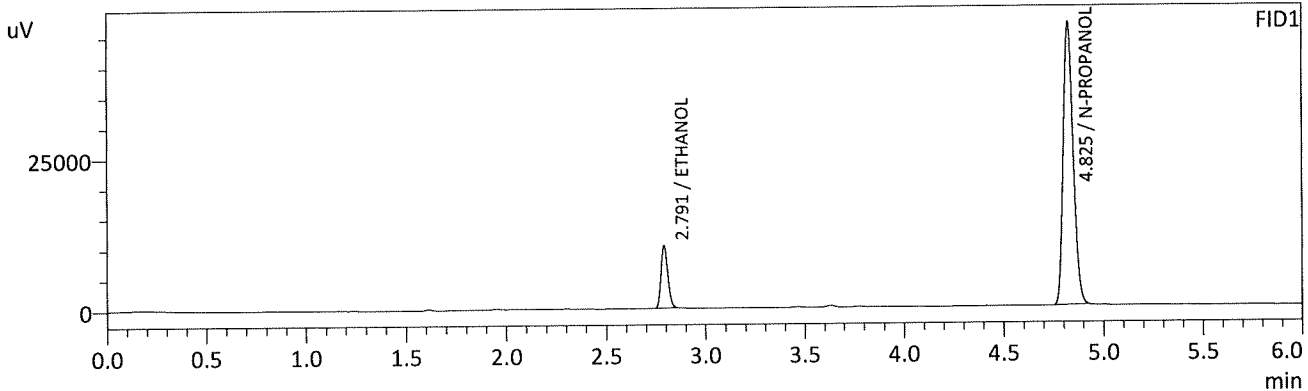
Overall Mean (g/100cc)	Low	High	5% of Mean
0.076	0.072	0.080	0.004

Reported Result	
0.076	

Calibration and control data are stored centrally.

TS

Sample Name : QC-1-1-A
 Vial # : 9
 Data Filename : QC-1-1-A_10212021_009.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 10-21-21_TS.gcb
 Date Acquired : 10/21/2021 1:34:02 PM
 Date Processed : 10/26/2021 9:09:26 AM
 C:\LabSolutions\Data\2021\10-21-21 TS\ALCOHOL.gcm



FID1

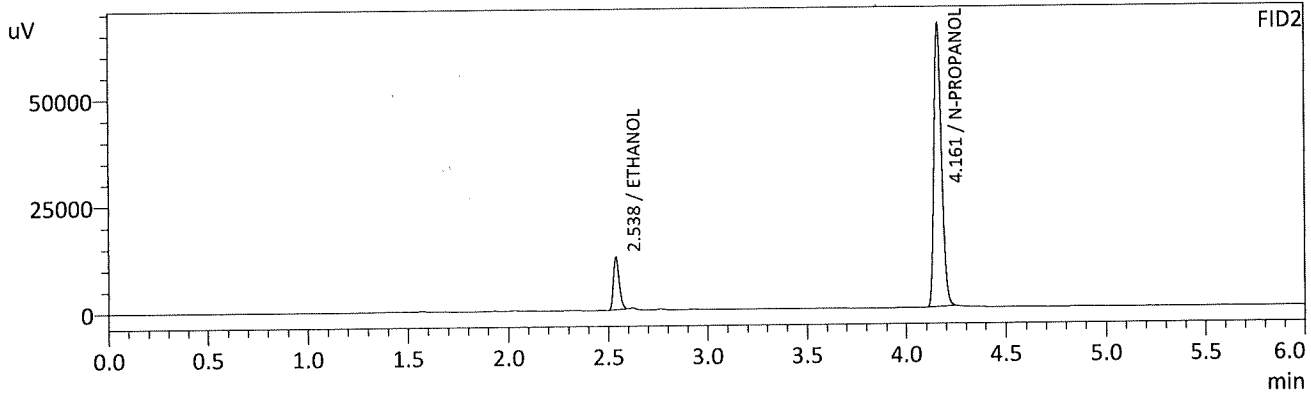
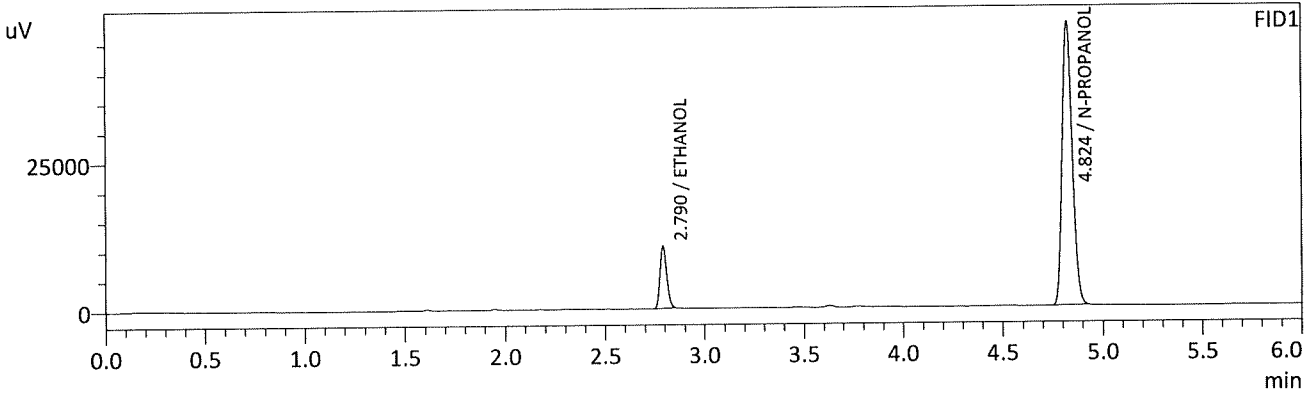
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0765	g/100cc	24211	10205
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	162750	46500
FLUORINATED HYDROCARBONS	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0770	g/100cc	24062	11894
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	170027	64475
FLUORINATED HYDROCARBONS	--	g/100cc	--	--

TS

Sample Name : QC-1-1-B
 Vial # : 10
 Data Filename : QC-1-1-B_10212021_010.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 10-21-21_TS.gcb
 Date Acquired : 10/21/2021 1:42:54 PM
 Date Processed : 10/26/2021 9:09:27 AM
 C:\LabSolutions\Data\2021\10-21-21 TS\ALCOHOL.gcm



FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0759	g/100cc	24773	10465
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	167891	47755
FLUORINATED HYDROCARBONS	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0767	g/100cc	24734	12210
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	175567	66470
FLUORINATED HYDROCARBONS	--	g/100cc	--	--

TS

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 0.08 QA

Analysis Date(s): 10/21/2021

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0816	0.0817	0.0001	0.0816	0.0010	0.0821
(g/100cc)	0.0825	0.0827	0.0002	0.0826		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

Refer to Instrument Method: Alcohol.m/.gcm, Volatiles.m/.gcm

Reporting of Results

Uncertainty of Measurement (UM%): 5.00%

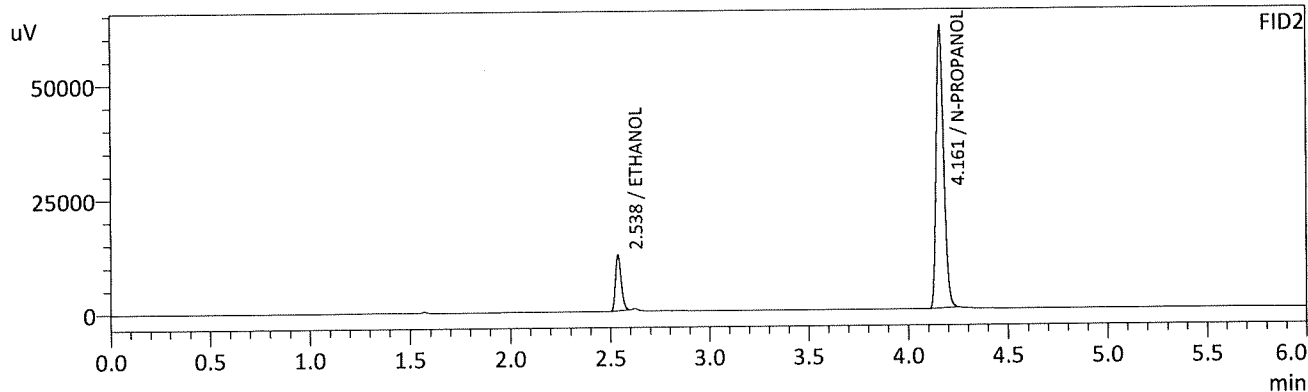
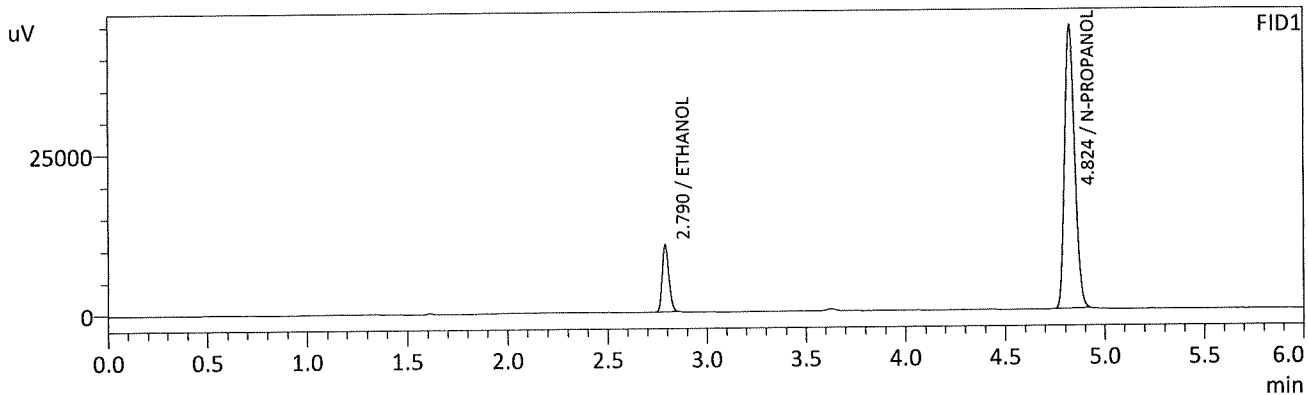
Overall Mean (g/100cc)	Low	High	5% of Mean
0.082	0.077	0.087	0.005

Reported Result	
0.082	

Calibration and control data are stored centrally.

TS

Sample Name : 0.08 QA - A
 Vial # : 11
 Data Filename : 0.08 QA - A_10212021_011.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 10-21-21_TS.gcb
 Date Acquired : 10/21/2021 1:51:58 PM
 Date Processed : 10/26/2021 9:09:28 AM
 C:\LabSolutions\Data\2021\10-21-21 TS\ALCOHOL.gcm



FID1

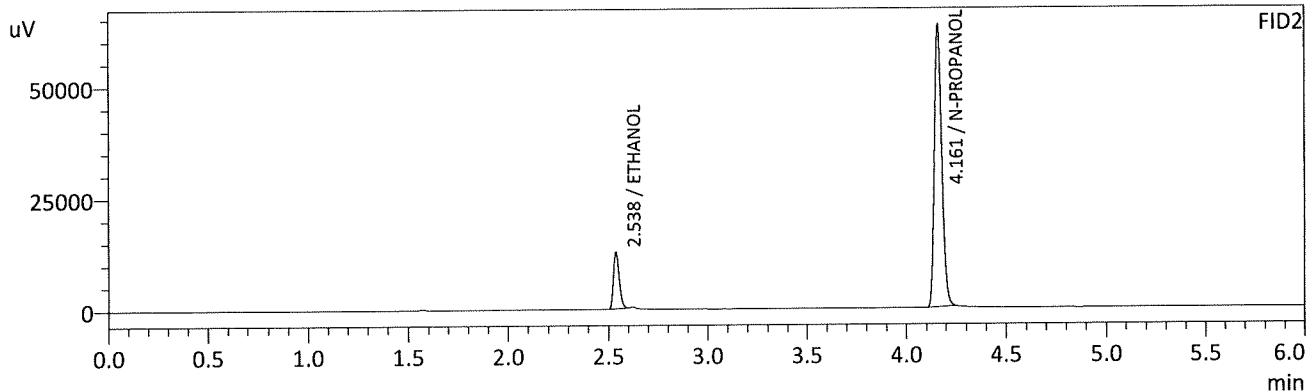
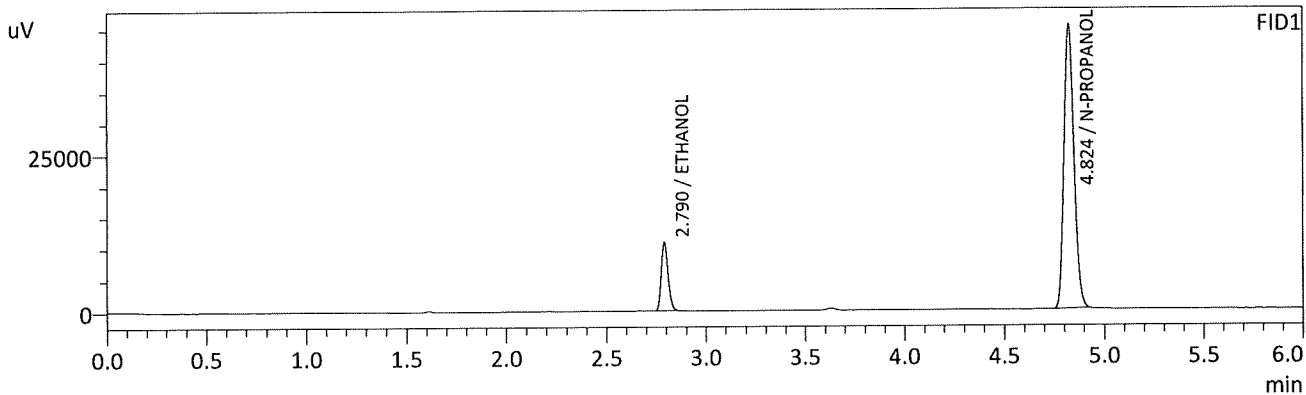
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0816	g/100cc	24727	10439
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	155357	44275
FLUORINATED HYDROCARBONS	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0817	g/100cc	24569	12166
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	162558	61720
FLUORINATED HYDROCARBONS	--	g/100cc	--	--

TS

Sample Name : 0.08 QA - B
 Vial # : 12
 Data Filename : 0.08 QA - B_10212021_012.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 10-21-21_TS.gcb
 Date Acquired : 10/21/2021 2:00:45 PM
 Date Processed : 10/26/2021 9:09:29 AM
 C:\LabSolutions\Data\2021\10-21-21 TS\ALCOHOL.gcm



FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0825	g/100cc	25550	10812
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	158546	45250
FLUORINATED HYDROCARBONS	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0827	g/100cc	25400	12617
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	165731	63163
FLUORINATED HYDROCARBONS	--	g/100cc	--	--

15

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC 2-1

Analysis Date(s): 10/21/2021

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.2108	0.2094	0.0014	0.2101	0.0005	0.2098
(g/100cc)	0.2102	0.2090	0.0012	0.2096		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

Refer to Instrument Method: Alcohol.m/.gcm, Volatiles.m/.gcm

Reporting of Results

Uncertainty of Measurement (UM%): 5.00%

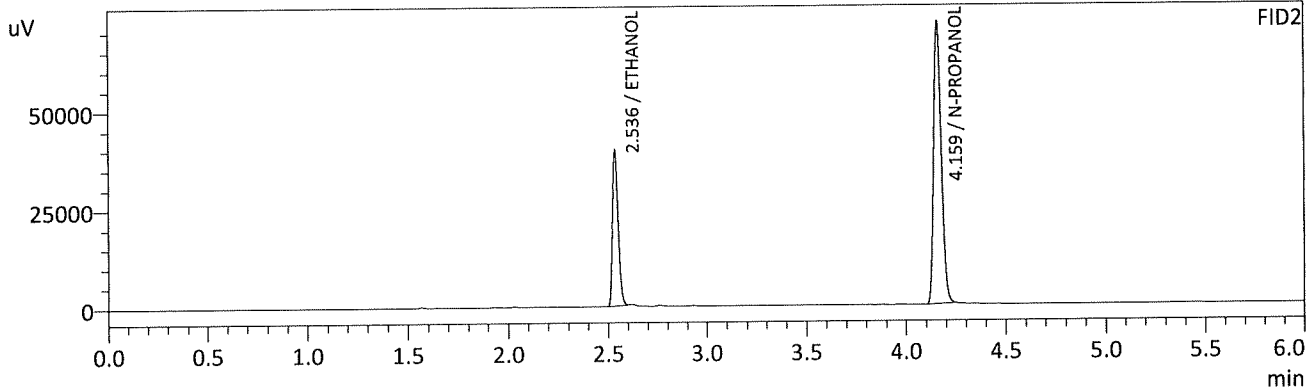
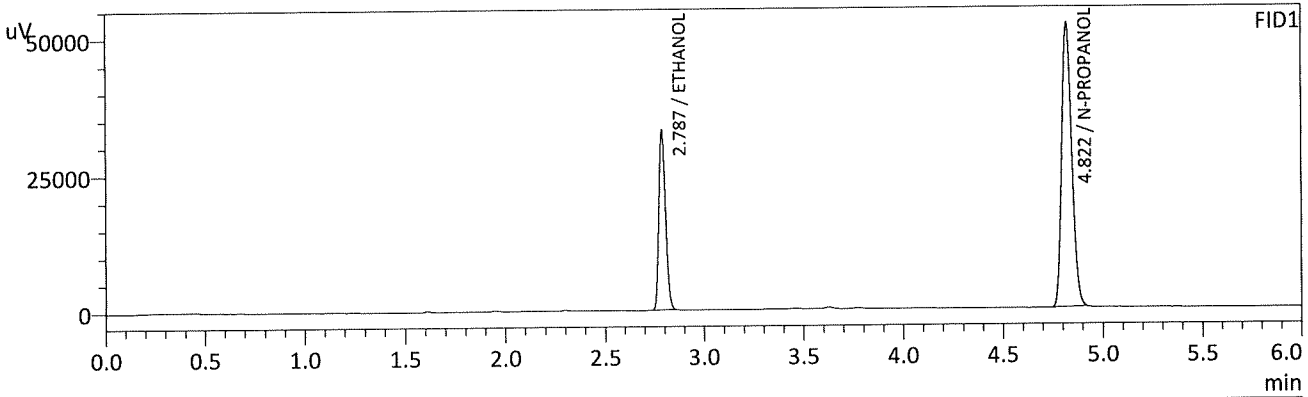
Overall Mean (g/100cc)	Low	High	5% of Mean
0.209	0.198	0.220	0.011

Reported Result	
0.209	

Calibration and control data are stored centrally.

BS

Sample Name : QC-2-1-A
 Vial # : 31
 Data Filename : QC-2-1-A_10212021_031.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 10-21-21_TS.gcb
 Date Acquired : 10/21/2021 4:49:23 PM
 Date Processed : 10/26/2021 9:09:50 AM
 C:\LabSolutions\Data\2021\10-21-21 TS\ALCOHOL.gcm



FID1

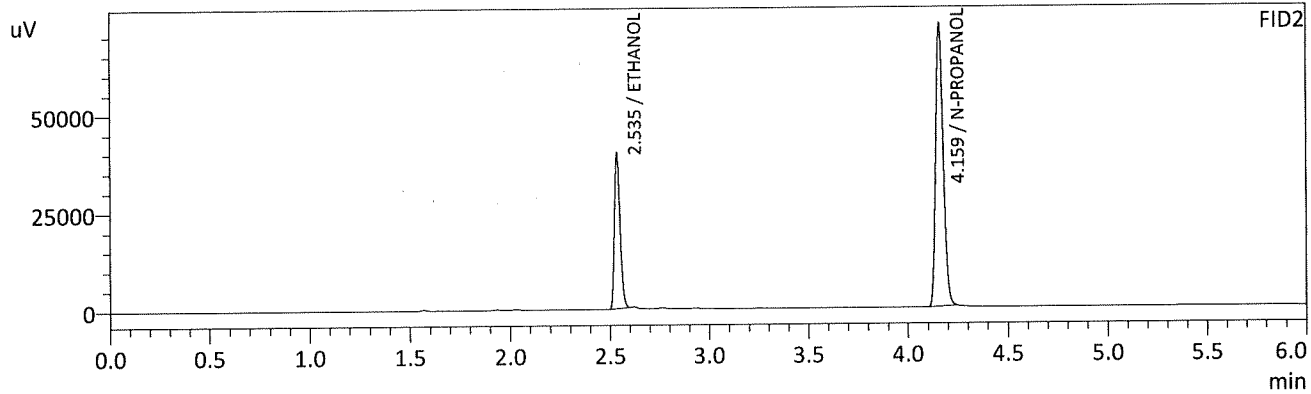
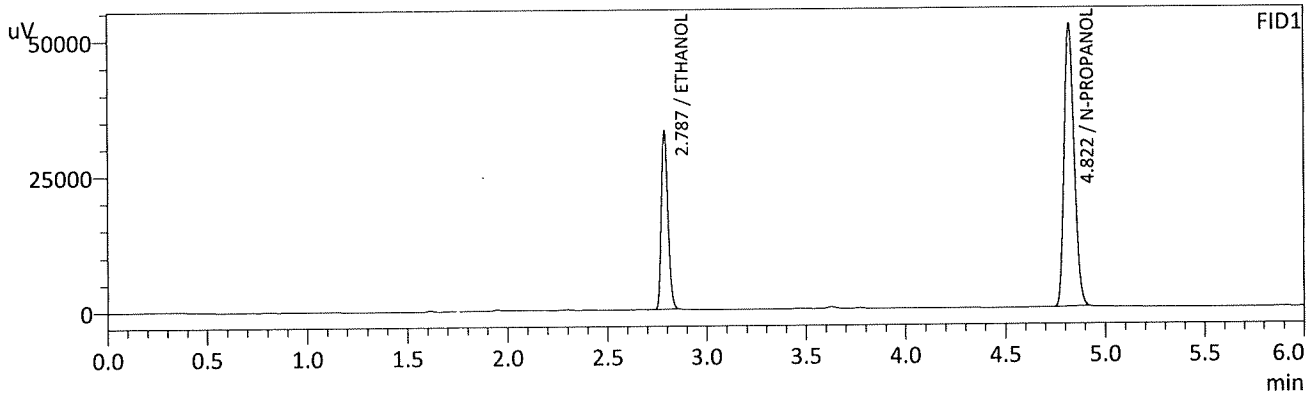
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.2108	g/100cc	76951	32678
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	181853	51779
FLUORINATED HYDROCARBONS	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.2094	g/100cc	78521	39497
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	189773	71638
FLUORINATED HYDROCARBONS	--	g/100cc	--	--

TS

Sample Name : QC-2-1-B
 Vial # : 32
 Data Filename : QC-2-1-B_10212021_032.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 10-21-21_TS.gcb
 Date Acquired : 10/21/2021 4:57:58 PM
 Date Processed : 10/26/2021 9:09:51 AM
 C:\LabSolutions\Data\2021\10-21-21 TS\ALCOHOL.gcm



FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.2102	g/100cc	77038	32700
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	182654	52011
FLUORINATED HYDROCARBONS	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.2090	g/100cc	78687	39473
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	190504	72080
FLUORINATED HYDROCARBONS	--	g/100cc	--	--

TS

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC 2-2

Analysis Date(s): 10/21/2021

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.2122	0.2114	0.0008	0.2118	0.0031	0.2102
(g/100cc)	0.2093	0.2081	0.0012	0.2087		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

Refer to Instrument Method: Alcohol.m/.gcm, Volatiles.m/.gcm

Reporting of Results

Uncertainty of Measurement (UM%): 5.00%

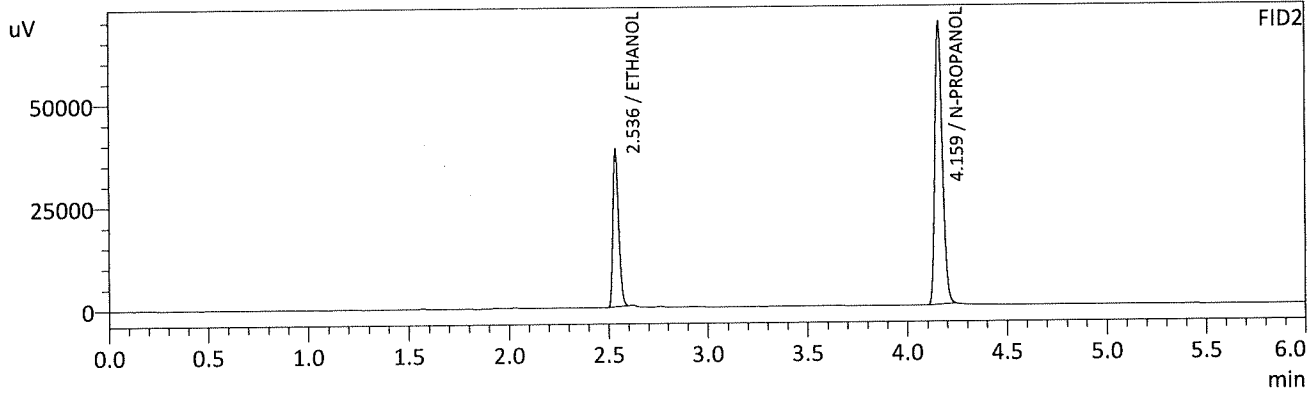
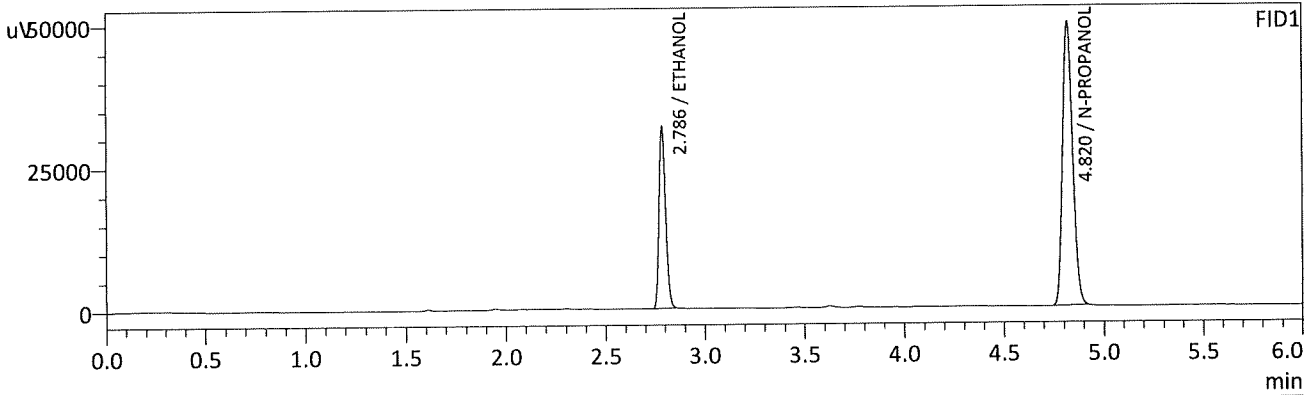
Overall Mean (g/100cc)	Low	High	5% of Mean
0.210	0.199	0.221	0.011

Reported Result
0.210

Calibration and control data are stored centrally.

TS

Sample Name : QC1-2-A *QC 2-2A 10-26-21 TS*
 Vial # : 53
 Data Filename : QC1-2-A_10212021_053.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 10-21-21_TS.gcb
 Date Acquired : 10/21/2021 8:03:30 PM
 Date Processed : 10/26/2021 9:10:15 AM
 C:\LabSolutions\Data\2021\10-21-21 TS\ALCOHOL.gcm



FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.2122	g/100cc	74328	31505
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	174537	49585
FLUORINATED HYDROCARBONS	--	g/100cc	--	--

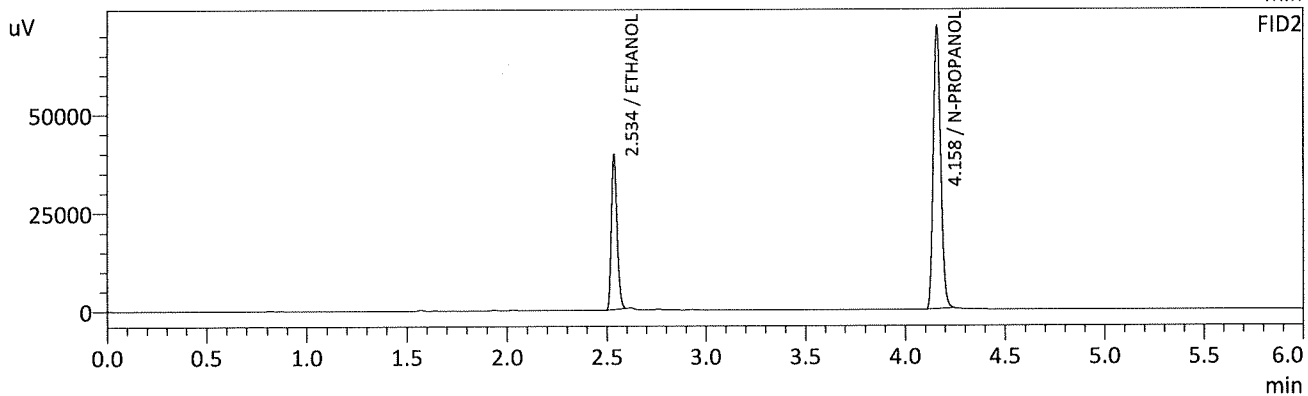
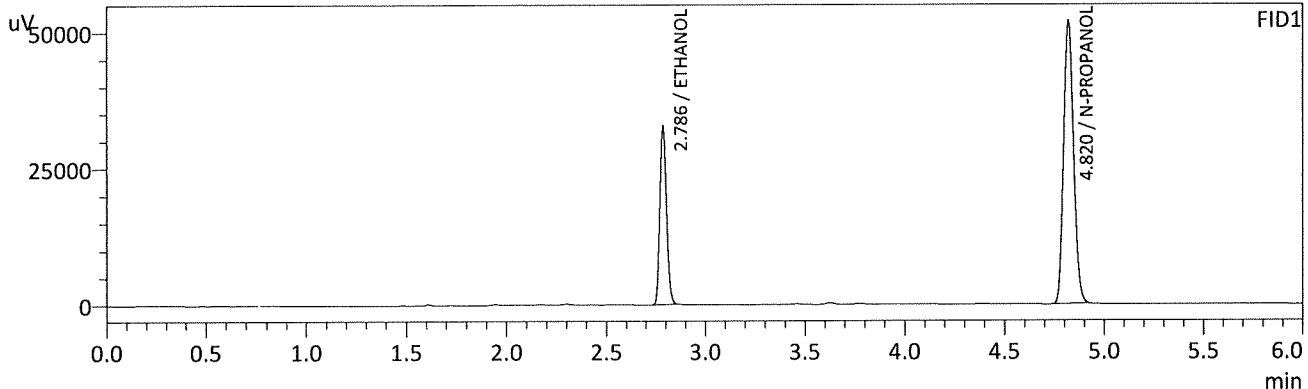
FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.2114	g/100cc	75593	38028
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	180862	68403
FLUORINATED HYDROCARBONS	--	g/100cc	--	--

TS

QC2-2 B

Sample Name : QC1-2-B 10-26-21 TS
 Vial # : 54
 Data Filename : QC1-2-B_10212021_054.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 10-21-21_TS.gcb
 Date Acquired : 10/21/2021 8:12:35 PM
 Date Processed : 10/26/2021 9:10:17 AM
 C:\LabSolutions\Data\2021\10-21-21 TS\ALCOHOL.gcm



FID1

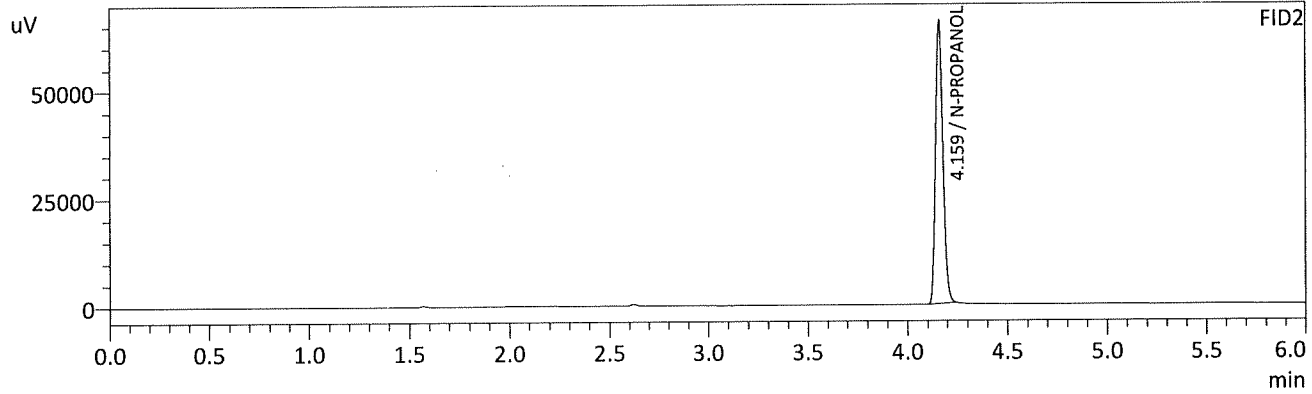
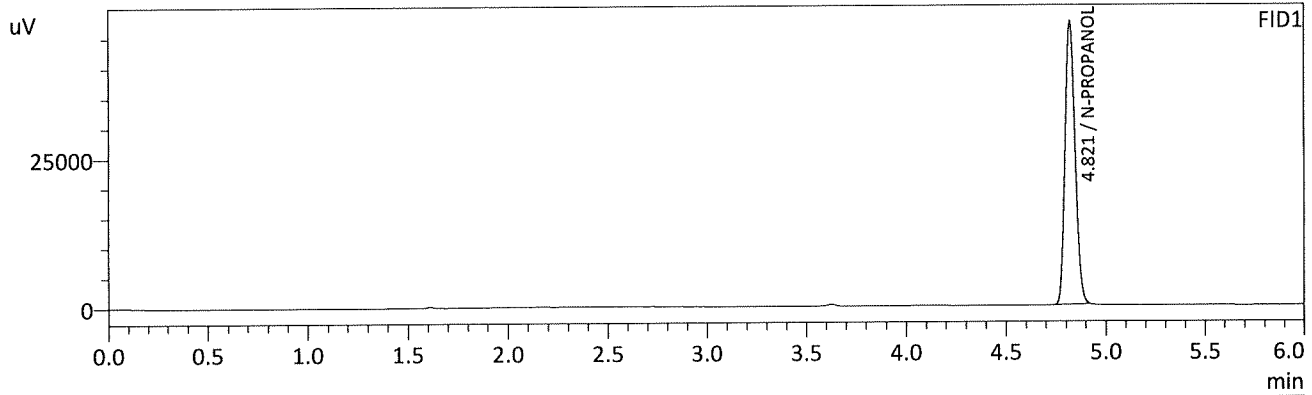
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.2093	g/100cc	76549	32463
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	182258	51837
FLUORINATED HYDROCARBONS	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.2081	g/100cc	77991	38778
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	189706	71570
FLUORINATED HYDROCARBONS	--	g/100cc	--	--

TS

Sample Name : INT STD BLK 3
 Vial # : 55
 Data Filename : INT STD BLK 3_10212021_055.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 10-21-21_TS.gcb
 Date Acquired : 10/21/2021 8:21:20 PM
 Date Processed : 10/26/2021 9:10:18 AM
 C:\LabSolutions\Data\2021\10-21-21 TS\ALCOHOL.gcm



FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	165714	47081
FLUORINATED HYDROCARBONS	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	172711	65411
FLUORINATED HYDROCARBONS	--	g/100cc	--	--

TS

Region 5 Pocatello Blood Alcohol Analysis Batch Table

Shimadzu Nexis GC-2030 Serial Number: C12255850662

Shimadzu HS-20 Serial Number: C12595700014

LabSolutions Version 5.98

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Vial#	Sample Name	Sample Type	Method File	Data File	Level#
1	0.050	1:Standard:(I)	ALCOHOL.gcm	0.050_10212021_001.gcd	1
2	0.100	1:Standard:(R)	ALCOHOL.gcm	0.100_10212021_002.gcd	2
3	0.200	1:Standard:(R)	ALCOHOL.gcm	0.200_10212021_003.gcd	3
4	0.300	1:Standard:(R)	ALCOHOL.gcm	0.300_10212021_004.gcd	4
5	0.500	1:Standard:(R)	ALCOHOL.gcm	0.500_10212021_005.gcd	5
6	INT STD BLK 1	0:Unknown	ALCOHOL.gcm	INT STD BLK 1_10212021_006.gcd	0
7	MULTI-COMP MIX	0:Unknown	ALCOHOL.gcm	MULTI-COMP MIX_10212021_007.gcd	1
8	INT STD BLK 2	0:Unknown	ALCOHOL.gcm	INT STD BLK 2_10212021_008.gcd	0
9	QC-1-1-A	0:Unknown	ALCOHOL.gcm	QC-1-1-A_10212021_009.gcd	0
10	QC-1-1-B	0:Unknown	ALCOHOL.gcm	QC-1-1-B_10212021_010.gcd	0
11	0.08 QA - A	0:Unknown	ALCOHOL.gcm	0.08 QA - A_10212021_011.gcd	0
12	0.08 QA - B	0:Unknown	ALCOHOL.gcm	0.08 QA - B_10212021_012.gcd	0
13	P2021-3144-1-A	0:Unknown	ALCOHOL.gcm	P2021-3144-1-A_10212021_013.gcd	0
14	P2021-3144-1-B	0:Unknown	ALCOHOL.gcm	P2021-3144-1-B_10212021_014.gcd	0
15	P2021-3146-1-A	0:Unknown	ALCOHOL.gcm	P2021-3146-1-A_10212021_015.gcd	0
16	P2021-3146-1-B	0:Unknown	ALCOHOL.gcm	P2021-3146-1-B_10212021_016.gcd	0
17	P2021-3147-1-A	0:Unknown	ALCOHOL.gcm	P2021-3147-1-A_10212021_017.gcd	0
18	P2021-3147-1-B	0:Unknown	ALCOHOL.gcm	P2021-3147-1-B_10212021_018.gcd	0
19	P2021-3245-1-A	0:Unknown	ALCOHOL.gcm	P2021-3245-1-A_10212021_019.gcd	0
20	P2021-3245-1-B	0:Unknown	ALCOHOL.gcm	P2021-3245-1-B_10212021_020.gcd	0
21	P2021-3258-1-A	0:Unknown	ALCOHOL.gcm	P2021-3258-1-A_10212021_021.gcd	0
22	P2021-3258-1-B	0:Unknown	ALCOHOL.gcm	P2021-3258-1-B_10212021_022.gcd	0
23	P2021-3259-1-A	0:Unknown	ALCOHOL.gcm	P2021-3259-1-A_10212021_023.gcd	0
24	P2021-3259-1-B	0:Unknown	ALCOHOL.gcm	P2021-3259-1-B_10212021_024.gcd	0
25	P2021-3344-2-A	0:Unknown	ALCOHOL.gcm	P2021-3344-2-A_10212021_025.gcd	0
26	P2021-3344-2-B	0:Unknown	ALCOHOL.gcm	P2021-3344-2-B_10212021_026.gcd	0
27	P2021-3355-1-A	0:Unknown	ALCOHOL.gcm	P2021-3355-1-A_10212021_027.gcd	0
28	P2021-3355-1-B	0:Unknown	ALCOHOL.gcm	P2021-3355-1-B_10212021_028.gcd	0
29	P2021-3371-1-A	0:Unknown	ALCOHOL.gcm	P2021-3371-1-A_10212021_029.gcd	0
30	P2021-3371-1-B	0:Unknown	ALCOHOL.gcm	P2021-3371-1-B_10212021_030.gcd	0
31	QC-2-1-A	0:Unknown	ALCOHOL.gcm	QC-2-1-A_10212021_031.gcd	0
32	QC-2-1-B	0:Unknown	ALCOHOL.gcm	QC-2-1-B_10212021_032.gcd	0
33	P2021-3372-1-A	0:Unknown	ALCOHOL.gcm	P2021-3372-1-A_10212021_033.gcd	0
34	P2021-3372-1-B	0:Unknown	ALCOHOL.gcm	P2021-3372-1-B_10212021_034.gcd	0
35	P2021-3373-1-A	0:Unknown	ALCOHOL.gcm	P2021-3373-1-A_10212021_035.gcd	0
36	P2021-3373-1-B	0:Unknown	ALCOHOL.gcm	P2021-3373-1-B_10212021_036.gcd	0
37	P2021-3373-2-A	0:Unknown	ALCOHOL.gcm	P2021-3373-2-A_10212021_037.gcd	0
38	P2021-3373-2-B	0:Unknown	ALCOHOL.gcm	P2021-3373-2-B_10212021_038.gcd	0
39	P2021-3374-1-A	0:Unknown	ALCOHOL.gcm	P2021-3374-1-A_10212021_039.gcd	0
40	P2021-3374-1-B	0:Unknown	ALCOHOL.gcm	P2021-3374-1-B_10212021_040.gcd	0
41	P2021-3378-1-A	0:Unknown	ALCOHOL.gcm	P2021-3378-1-A_10212021_041.gcd	0
42	P2021-3378-1-B	0:Unknown	ALCOHOL.gcm	P2021-3378-1-B_10212021_042.gcd	0
43	P2021-3394-1-A	0:Unknown	ALCOHOL.gcm	P2021-3394-1-A_10212021_043.gcd	0
44	P2021-3394-1-B	0:Unknown	ALCOHOL.gcm	P2021-3394-1-B_10212021_044.gcd	0
45	P2021-3397-1-A	0:Unknown	ALCOHOL.gcm	P2021-3397-1-A_10212021_045.gcd	0
46	P2021-3397-1-B	0:Unknown	ALCOHOL.gcm	P2021-3397-1-B_10212021_046.gcd	0
47	P2021-3400-1-A	0:Unknown	ALCOHOL.gcm	P2021-3400-1-A_10212021_047.gcd	0
48	P2021-3400-1-B	0:Unknown	ALCOHOL.gcm	P2021-3400-1-B_10212021_048.gcd	0
49	P2021-3401-1-A	0:Unknown	ALCOHOL.gcm	P2021-3401-1-A_10212021_049.gcd	0
50	P2021-3401-1-B	0:Unknown	ALCOHOL.gcm	P2021-3401-1-B_10212021_050.gcd	0
51	P2021-3403-1-A	0:Unknown	ALCOHOL.gcm	P2021-3403-1-A_10212021_051.gcd	0
52	P2021-3403-1-B	0:Unknown	ALCOHOL.gcm	P2021-3403-1-B_10212021_052.gcd	0

10-26-21
TS

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Vial#	Sample Name	Sample Type	Method File	Data File	Level#
53	QC1-2-A GC-2-2	0:Unknown	ALCOHOL.gcm	QC1-2-A_10212021_053.gcd	0
54	QC1-2-B GC-2-2	0:Unknown	ALCOHOL.gcm	QC1-2-B_10212021_054.gcd	0
55	INT STD BLK 3	0:Unknown	ALCOHOL.gcm	INT STD BLK 3_10212021_055.gcd	0