

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): 01/13/2021

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Jan-22	1801036	0.0812	0.0731-0.0893	0.0816 g/100cc 0.0842 g/100cc g/100cc
Level 2	Mar-22	1803028	0.2035	0.1832-0.2238	0.2047 g/100cc g/100cc
Multi-Component mixture:			Lot #	FN07101701	
Curve Fit:			Column 1	0.99991	Column 2
					0.99987

**REVIEWED**

By Rachel Cutler at 3:49 pm, Jan 21, 2021

Ethanol Calibration Reference Material					
Calibrator level	Target Value	Acceptable Range	Column 1	Column 2	Mean
50	0.050	0.045 - 0.055	0.0520	0.0526	0.0523
100	0.100	0.090 - 0.110	0.1007	0.1006	0.1006
200	0.200	0.180 - 0.220	0.1975	0.1971	0.1973
300	0.300	0.270 - 0.330	0.2975	0.2970	0.2972
400	0.400	0.360 - 0.440			#DIV/0!
500	0.500	0.450 - 0.550	0.5020	0.5025	0.5022

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

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1/15/2021

**Worklist: 4732**

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
P2020-3832	1	BCK	Alcohol Analysis	
P2020-3836	1	AALIQ	Alcohol Analysis	
P2020-3845	1	BCK	Alcohol Analysis	
P2020-3852	1	BCK	Alcohol Analysis	
P2020-3853	1	BCK	Alcohol Analysis	
P2020-3854	1	BCK	Alcohol Analysis	
P2020-3854	2	BCK	Alcohol Analysis	
P2020-3878	1	BCK	Alcohol Analysis	
P2021-0017	1	BCK	Alcohol Analysis	
P2021-0018	1	BCK	Alcohol Analysis	
P2021-0029	1	BCK	Alcohol Analysis	
P2021-0030	1	BCK	Alcohol Analysis	
P2021-0034	1	BCK	Alcohol Analysis	

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# ==== Shimadzu LabSolutions Batch Table====

Vial#	Sample Name	Sample ID	Sample Type	Method File	Data File	Level#	Report Format File
1	0.050		1:Standard:(I)	ALCOHOL.gcm	0.050_1132021_001.gcd	1	ISP BAC REPORT.isr
2	0.100		1:Standard:(R)	ALCOHOL.gcm	0.100_1132021_002.gcd	2	ISP BAC REPORT.isr
3	0.200		1:Standard:(R)	ALCOHOL.gcm	0.200_1132021_003.gcd	3	ISP BAC REPORT.isr
4	0.300		1:Standard:(R)	ALCOHOL.gcm	0.300_1132021_004.gcd	4	ISP BAC REPORT.isr
5	0.500		1:Standard:(R)	ALCOHOL.gcm	0.500_1132021_005.gcd	5	_CURVE REPORT.isr
6	INT STD BLK 1		0:Unknown	ALCOHOL.gcm	NT STD BLK 1_1132021_006.gcd	0	ISP BAC REPORT.isr
7	MULTI-COMP MIX		0:Unknown	ALCOHOL.gcm	TI-COMP MIX_1132021_007.gcd	1	ISP BAC REPORT.isr
8	INT STD BLK 2		0:Unknown	ALCOHOL.gcm	NT STD BLK 2_1132021_008.gcd	0	ISP BAC REPORT.isr
9	QC-1-1-A		0:Unknown	ALCOHOL.gcm	QC-1-1-A_1132021_009.gcd	0	ISP BAC REPORT.isr
10	QC-1-1-B		0:Unknown	ALCOHOL.gcm	QC-1-1-B_1132021_010.gcd	0	ISP BAC REPORT.isr
11	0.08 QA - A		0:Unknown	ALCOHOL.gcm	0.08 QA - A_1132021_011.gcd	0	ISP BAC REPORT.isr
12	0.08 QA - B		0:Unknown	ALCOHOL.gcm	0.08 QA - B_1132021_012.gcd	0	ISP BAC REPORT.isr
13	P2020-3832-1-A		0:Unknown	ALCOHOL.gcm	:020-3832-1-A_1132021_013.gcd	0	ISP BAC REPORT.isr
14	P2020-3832-1-B		0:Unknown	ALCOHOL.gcm	:020-3832-1-B_1132021_014.gcd	0	ISP BAC REPORT.isr
15	P2020-3836-1-A		0:Unknown	ALCOHOL.gcm	:020-3836-1-A_1132021_015.gcd	0	ISP BAC REPORT.isr
16	P2020-3836-1-B		0:Unknown	ALCOHOL.gcm	:020-3836-1-B_1132021_016.gcd	0	ISP BAC REPORT.isr
17	P2020-3845-1-A		0:Unknown	ALCOHOL.gcm	:020-3845-1-A_1132021_017.gcd	0	ISP BAC REPORT.isr
18	P2020-3845-1-B		0:Unknown	ALCOHOL.gcm	:020-3845-1-B_1132021_018.gcd	0	ISP BAC REPORT.isr
19	P2020-3852-1-A		0:Unknown	ALCOHOL.gcm	:020-3852-1-A_1132021_019.gcd	0	ISP BAC REPORT.isr
20	P2020-3852-1-B		0:Unknown	ALCOHOL.gcm	:020-3852-1-B_1132021_020.gcd	0	ISP BAC REPORT.isr
21	P2020-3853-1-A		0:Unknown	ALCOHOL.gcm	:020-3853-1-A_1132021_021.gcd	0	ISP BAC REPORT.isr
22	P2020-3853-1-B		0:Unknown	ALCOHOL.gcm	:020-3853-1-B_1132021_022.gcd	0	ISP BAC REPORT.isr
23	P2020-3854-1-A		0:Unknown	ALCOHOL.gcm	:020-3854-1-A_1132021_023.gcd	0	ISP BAC REPORT.isr
24	P2020-3854-1-B		0:Unknown	ALCOHOL.gcm	:020-3854-1-B_1132021_024.gcd	0	ISP BAC REPORT.isr
25	P2020-3854-2-A		0:Unknown	ALCOHOL.gcm	:020-3854-2-A_1132021_025.gcd	0	ISP BAC REPORT.isr
26	P2020-3854-2-B		0:Unknown	ALCOHOL.gcm	:020-3854-2-B_1132021_026.gcd	0	ISP BAC REPORT.isr
27	P2020-3878-1-A		0:Unknown	ALCOHOL.gcm	:020-3878-1-A_1132021_027.gcd	0	ISP BAC REPORT.isr
28	P2020-3878-1-B		0:Unknown	ALCOHOL.gcm	:020-3878-1-B_1132021_028.gcd	0	ISP BAC REPORT.isr
29	P2021-0017-1-A		0:Unknown	ALCOHOL.gcm	:021-0017-1-A_1132021_029.gcd	0	ISP BAC REPORT.isr
30	P2021-0017-1-B		0:Unknown	ALCOHOL.gcm	:021-0017-1-B_1132021_030.gcd	0	ISP BAC REPORT.isr
31	QC-2-1-A		0:Unknown	ALCOHOL.gcm	QC-2-1-A_1132021_031.gcd	0	ISP BAC REPORT.isr
32	QC-2-1-B		0:Unknown	ALCOHOL.gcm	QC-2-1-B_1132021_032.gcd	0	ISP BAC REPORT.isr
33	P2021-0018-1-A		0:Unknown	ALCOHOL.gcm	:021-0018-1-A_1132021_033.gcd	0	ISP BAC REPORT.isr
34	P2021-0018-1-B		0:Unknown	ALCOHOL.gcm	:021-0018-1-B_1132021_034.gcd	0	ISP BAC REPORT.isr
35	P2021-0029-1-A		0:Unknown	ALCOHOL.gcm	:021-0029-1-A_1132021_035.gcd	0	ISP BAC REPORT.isr
36	P2021-0029-1-B		0:Unknown	ALCOHOL.gcm	:021-0029-1-B_1132021_036.gcd	0	ISP BAC REPORT.isr
37	P2021-0030-1-A		0:Unknown	ALCOHOL.gcm	:021-0030-1-A_1132021_037.gcd	0	ISP BAC REPORT.isr
38	P2021-0030-1-B		0:Unknown	ALCOHOL.gcm	:021-0030-1-B_1132021_038.gcd	0	ISP BAC REPORT.isr

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Vial 44-53  
 injected  
 01-14-21  
 in order to  
 reanalyze  
 sample  
 P2020-3845-L  
 1-16-21  
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Vial#	Sample Name	Sample ID	Sample Type	Method File	Data File	Level#	Report Format File
39	P2021-0034-1-A		0:Unknown	ALCOHOL.gcm;021-0034-1-A_1132021_039.gcd		0	ISP BAC REPORT.isr
40	P2021-0034-1-B		0:Unknown	ALCOHOL.gcm;021-0034-1-B_1132021_040.gcd		0	ISP BAC REPORT.isr
41	QC1-2-A		0:Unknown	ALCOHOL.gcm	QC1-2-A_1132021_041.gcd	0	ISP BAC REPORT.isr
42	QC1-2-B		0:Unknown	ALCOHOL.gcm	QC1-2-B_1132021_042.gcd	0	ISP BAC REPORT.isr
43	INT STD BLNK		0:Unknown	ALCOHOL.gcm	NT STD BLNK_1132021_043.gcd	0	ISP BAC REPORT.isr
44	INT STD BLNK_R1		0:Unknown	ALCOHOL.gcm;TD BLNK_R1_1142021_001.gcd		0	ISP BAC REPORT.isr
45	QC1-3-A		0:Unknown	ALCOHOL.gcm	QC1-3-A_1142021_002.gcd	0	ISP BAC REPORT.isr
46	QC1-3-B		0:Unknown	ALCOHOL.gcm	QC1-3-B_1142021_003.gcd	0	ISP BAC REPORT.isr
47	0.08 QA-2-A		0:Unknown	ALCOHOL.gcm	0.08 QA-2-A_1142021_004.gcd	0	ISP BAC REPORT.isr
48	0.08 QA-2-B		0:Unknown	ALCOHOL.gcm	0.08 QA-2-B_1142021_005.gcd	0	ISP BAC REPORT.isr
49	P2020-3845-1-REANALYZE-A		0:Unknown	ALCOHOL.gcm;EANALYZE-A_1142021_006.gcd		0	ISP BAC REPORT.isr
50	P2020-3845-1-REANALYZE-B		0:Unknown	ALCOHOL.gcm;EANALYZE-B_1142021_007.gcd		0	ISP BAC REPORT.isr
51	QC2-2-A		0:Unknown	ALCOHOL.gcm	QC2-2-A_1142021_008.gcd	0	ISP BAC REPORT.isr
52	QC2-2-B		0:Unknown	ALCOHOL.gcm	QC2-2-B_1142021_009.gcd	0	ISP BAC REPORT.isr
53	INT STD BLNK_R2		0:Unknown	ALCOHOL.gcm;TD BLNK_R2_1142021_010.gcd		0	ISP BAC REPORT.isr

Due to a missing standard, the samples in vials 44-53 will be reanalyzed at a later date.

01/21/2021

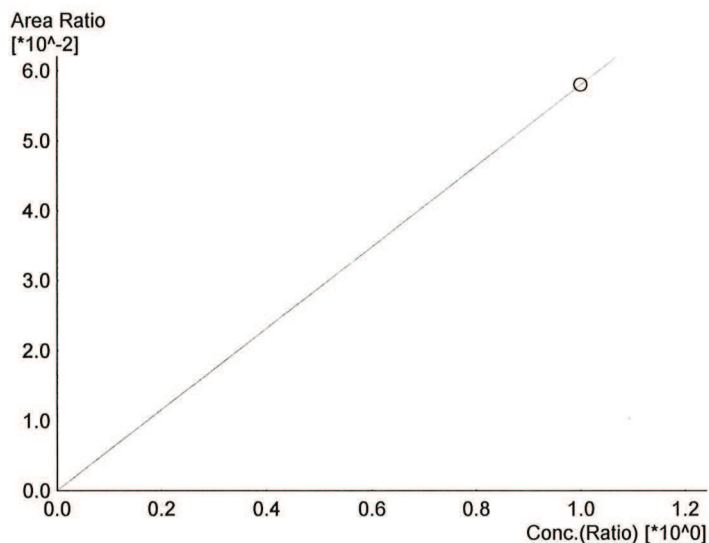
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# Calibration Table

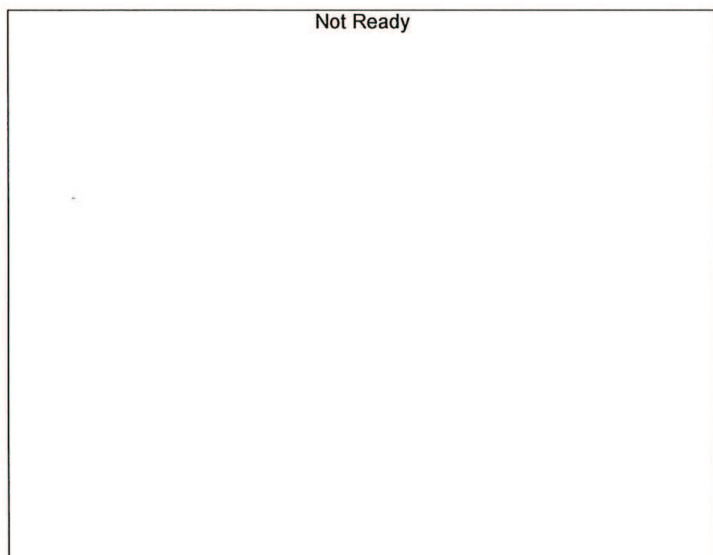
Laboratory: Pocatello  
Instrument Name : GC2030-HS20

<<Data File>>  
Method File :C:\LabSolutions\Data\2021\011321\_TS\ALCOHOL.gcm  
Batch File :C:\LabSolutions\Data\2021\011321\_TS\011321\_TS\_POST.gcb  
Date Acquired :1/13/2021 11:59:51 AM  
Date Created :1/13/2021 11:56:54 AM  
Date Modified :1/15/2021 8:09:10 AM



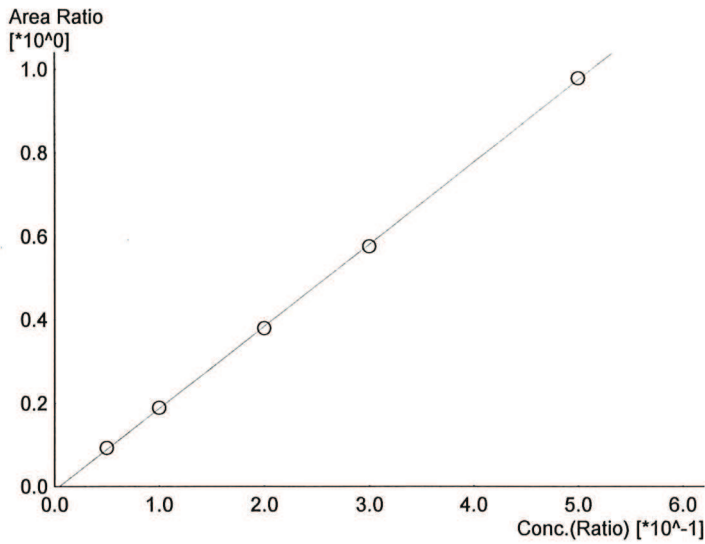
Name : METHANOL  
Detector Name: FID1  
Function :  $f(x)=0.0579603 \cdot x+0$   
Linearity=1.000000  
FitType: Linear  
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
1	1.000	12237	1.0000



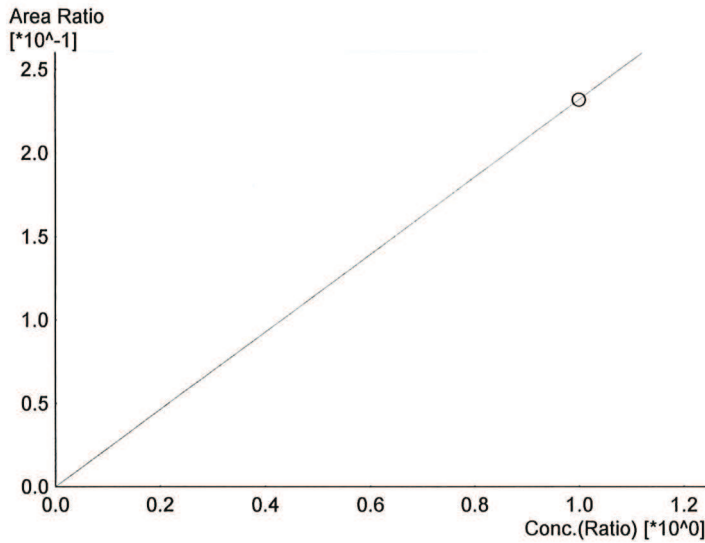
Name : ACETALDEHYDE  
Detector Name: FID1  
Function :  $f(x)=0 \cdot x+0$   
Linearity=0  
FitType: Linear  
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
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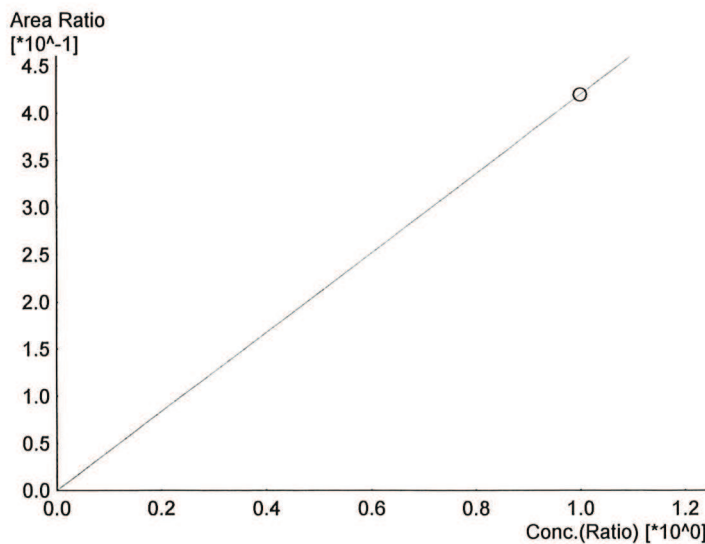
Name : ETHANOL  
 Detector Name: FID1  
 Function :  $f(x)=1.96586*x-0.00916868$   
 Linearity=0.9999179 ✓  
 FitType: Linear  
 ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
1	0.050	14171	0.0520
2	0.100	28863	0.1007
3	0.200	58077	0.1975
4	0.300	88427	0.2975
5	0.500	155038	0.5020



Name : ISOPROPYL ALCOHOL  
 Detector Name: FID1  
 Function :  $f(x)=0.231739*x+0$   
 Linearity=1.000000  
 FitType: Linear  
 ZeroThrough: Not Through

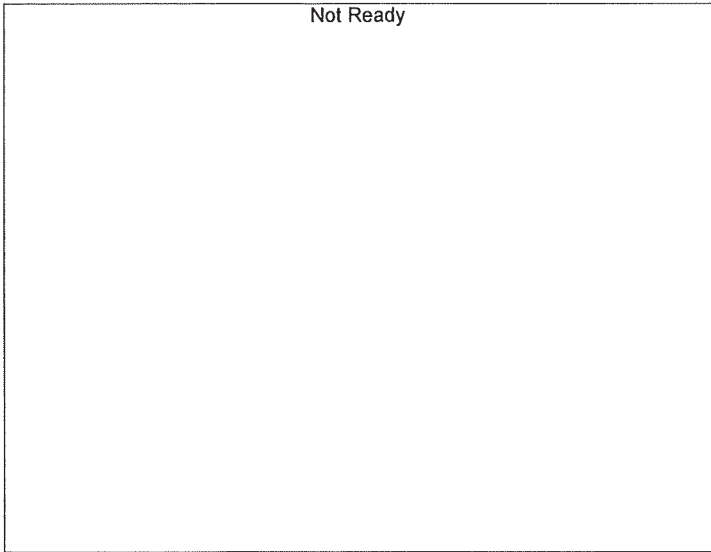
#	Conc.	Area	Std. Conc.
1	1.000	48928	1.0000



Name : ACETONE  
 Detector Name: FID1  
 Function :  $f(x)=0.419777*x+0$   
 Linearity=1.000000  
 FitType: Linear  
 ZeroThrough: Not Through

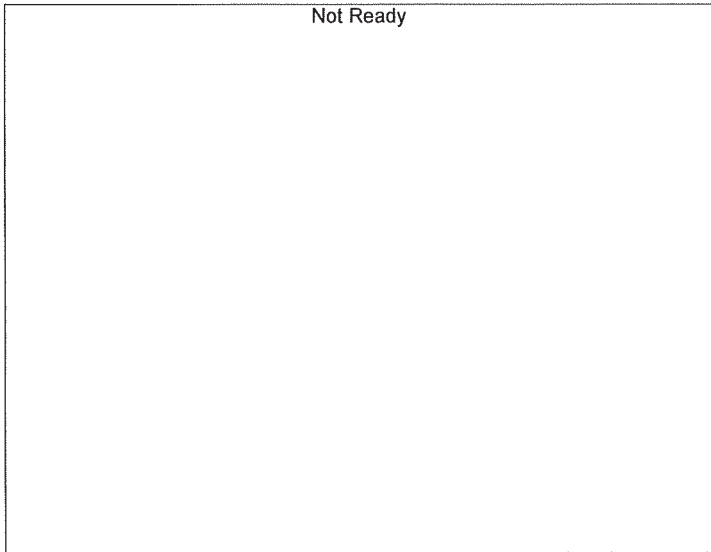
#	Conc.	Area	Std. Conc.
1	1.000	88630	1.0000

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Name : DFE  
Detector Name: FID1  
Function :  $f(x)=0*x+0$   
Linearity=0  
FitType: Linear  
ZeroThrough: Not Through

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

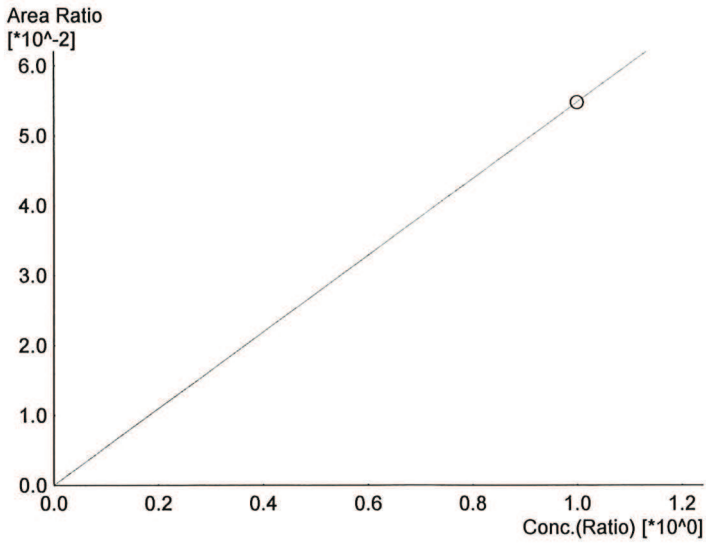
#	Conc.	Area	Std. Conc.
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Name : ACETALDEHYDE  
Detector Name: FID2  
Function :  $f(x)=0*x+0$   
Linearity=0  
FitType: Linear  
ZeroThrough: Not Through

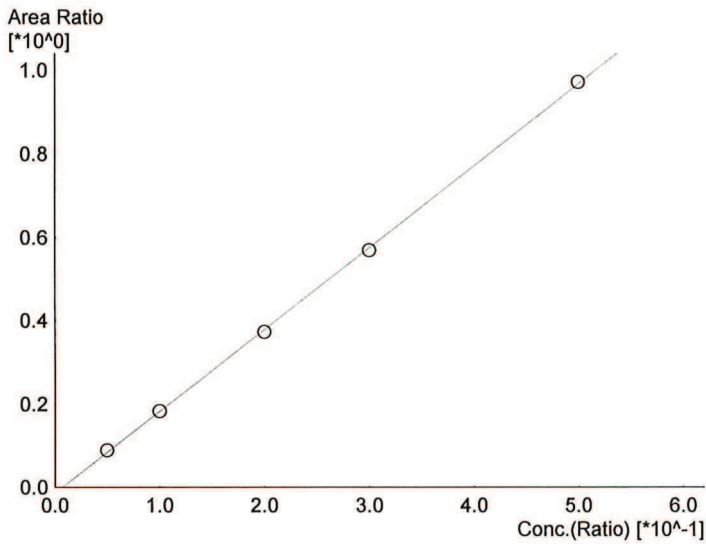
#	Conc.	Area	Std. Conc.
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TS



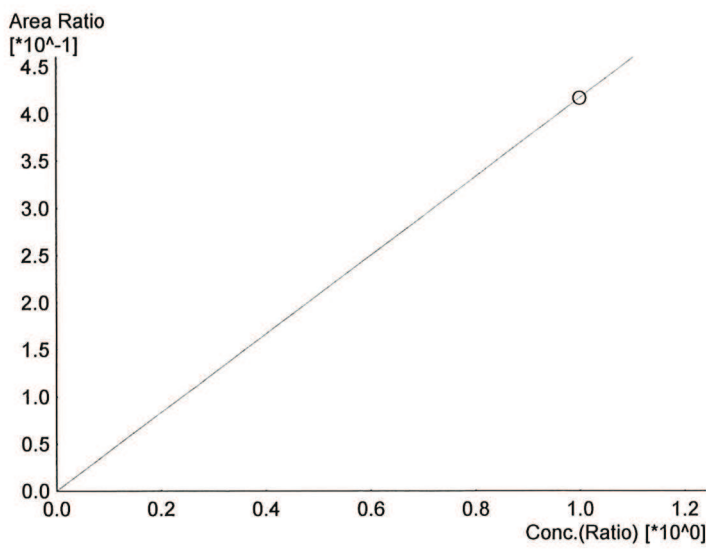
Name : METHANOL  
 Detector Name: FID2  
 Function :  $f(x)=0.0547385*x+0$   
 Linearity=1.000000  
 FitType: Linear  
 ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
1	1.000	12454	1.0000



Name : ETHANOL  
 Detector Name: FID2  
 Function :  $f(x)=1.96213*x-0.0141515$   
 Linearity=0.9998798 ✓  
 FitType: Linear  
 ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
1	0.050	14701	0.0526
2	0.100	30180	0.1006
3	0.200	61295	0.1971
4	0.300	93614	0.2970
5	0.500	164483	0.5025

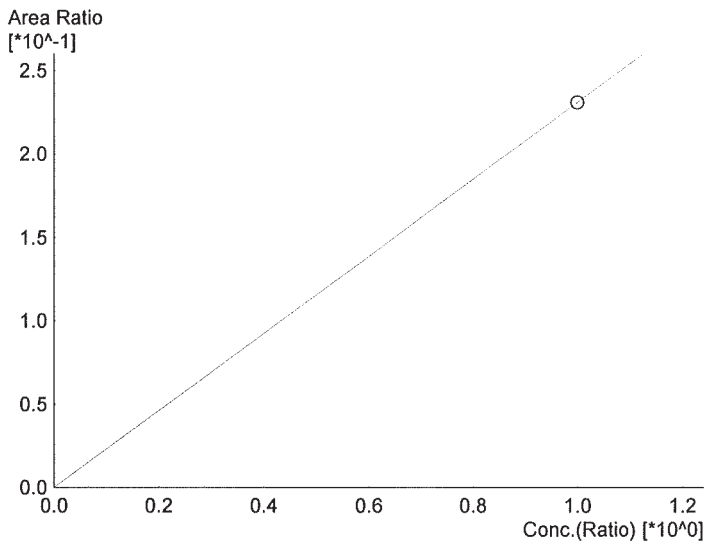


Name : ACETONE  
 Detector Name: FID2  
 Function :  $f(x)=0.417037*x+0$   
 Linearity=1.000000  
 FitType: Linear  
 ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
1	1.000	94880	1.0000



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Name : ISOPROPYL ALCOHOL  
 Detector Name: FID2  
 Function :  $f(x)=0.230791*x+0$   
 Linearity=1.000000  
 FitType: Linear  
 ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
1	1.000	52508	1.0000



Name : DFE  
 Detector Name: FID2  
 Function :  $f(x)=0*x+0$   
 Linearity=0  
 FitType: Linear  
 ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
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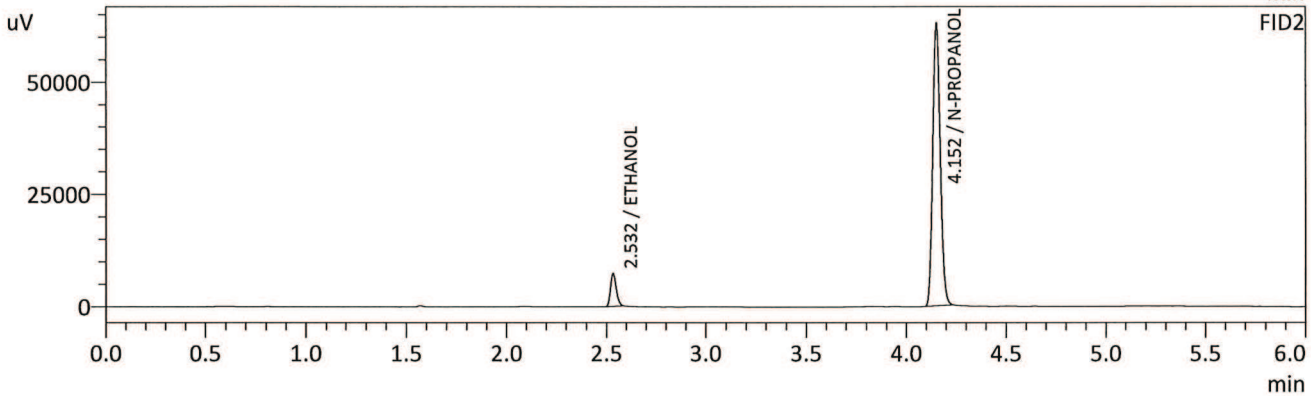
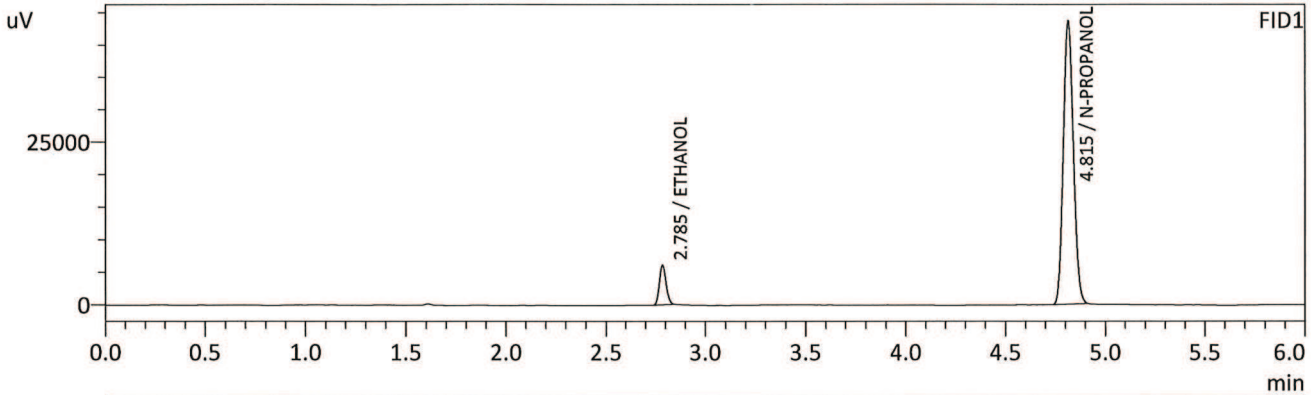


Name : TFE  
 Detector Name: FID2  
 Function :  $f(x)=0*x+0$   
 Linearity=0  
 FitType: Linear  
 ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
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Sample Name : 0.050  
 Vial # : 1  
 Data Filename : 0.050\_1132021\_001.gcd  
 Method Filename : ALCOHOL.gcm  
 Batch Filename : 011321\_TS\_POST.gcb  
 Date Acquired : 1/13/2021 11:24:26 AM  
 Date Processed : 1/14/2021 11:46:49 AM



FID1

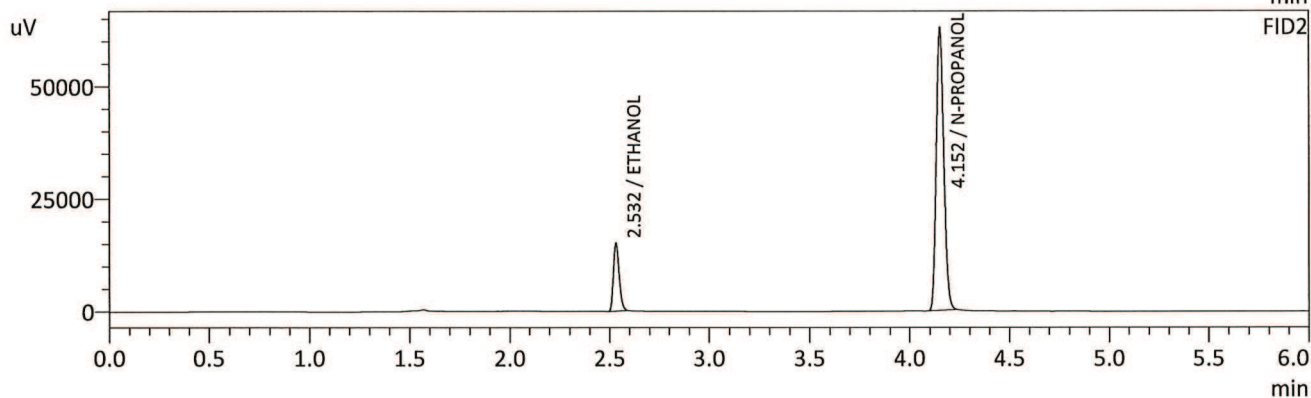
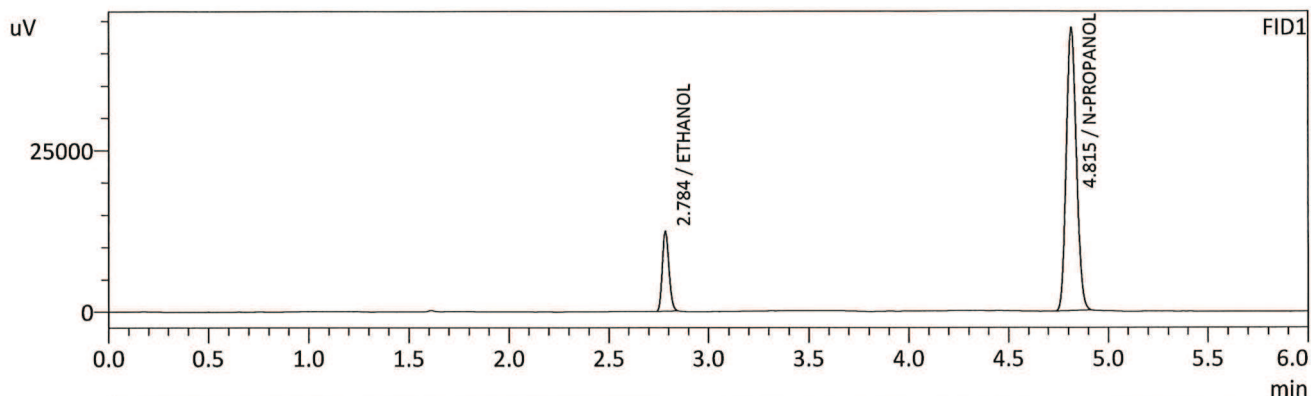
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0520	g/100cc	14171	6062
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	152142	43586
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0526	g/100cc	14701	7318
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	164818	62849
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

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Sample Name : 0.100  
 Vial # : 2  
 Data Filename : 0.100\_1132021\_002.gcd  
 Method Filename : ALCOHOL.gcm  
 Batch Filename : 011321\_TS\_POST.gcb  
 Date Acquired : 1/13/2021 11:33:03 AM  
 Date Processed : 1/14/2021 11:46:51 AM



FID1

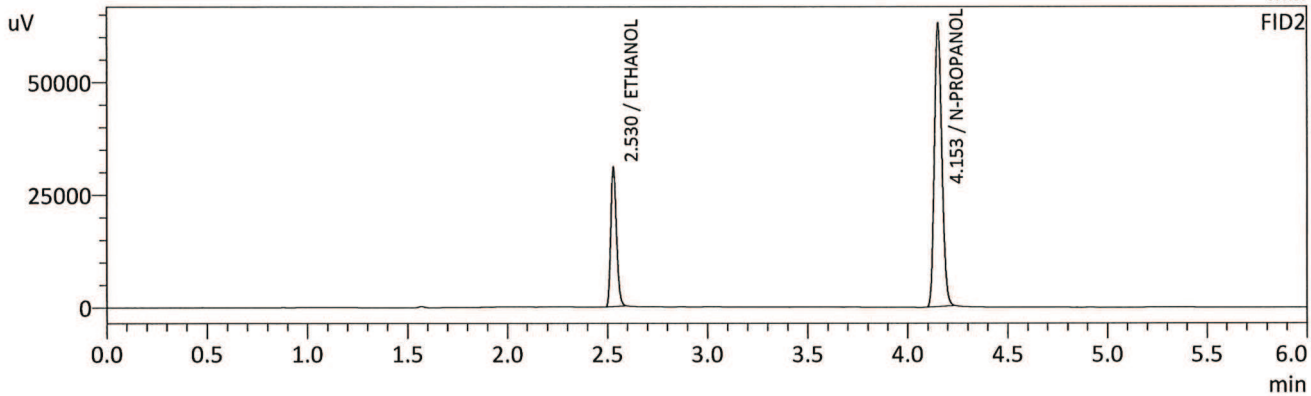
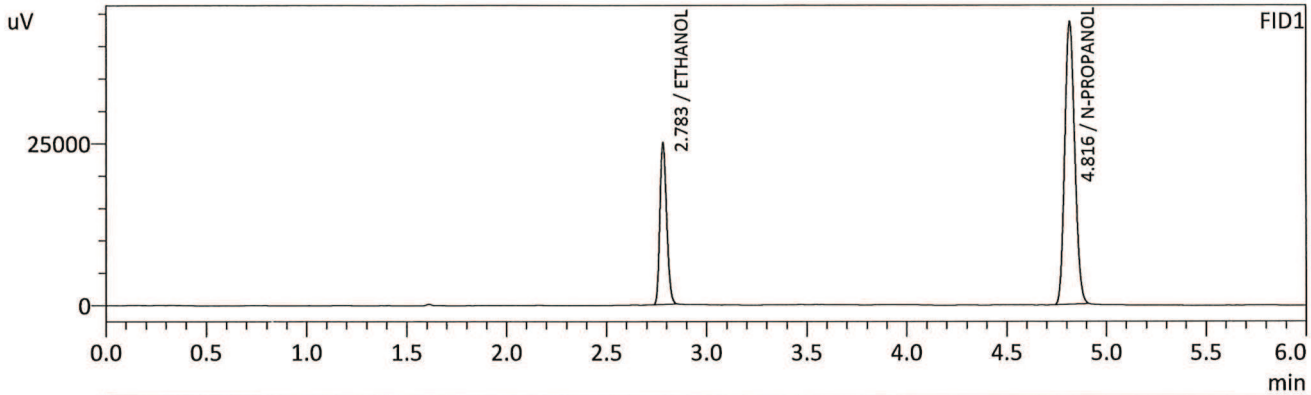
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.1007	g/100cc	28863	12345
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	152793	43740
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.1006	g/100cc	30180	15058
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	164676	62617
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

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Sample Name : 0.200  
 Vial # : 3  
 Data Filename : 0.200\_1132021\_003.gcd  
 Method Filename : ALCOHOL.gcm  
 Batch Filename : 011321\_TS\_POST.gcb  
 Date Acquired : 1/13/2021 11:41:57 AM  
 Date Processed : 1/14/2021 11:46:52 AM



FID1

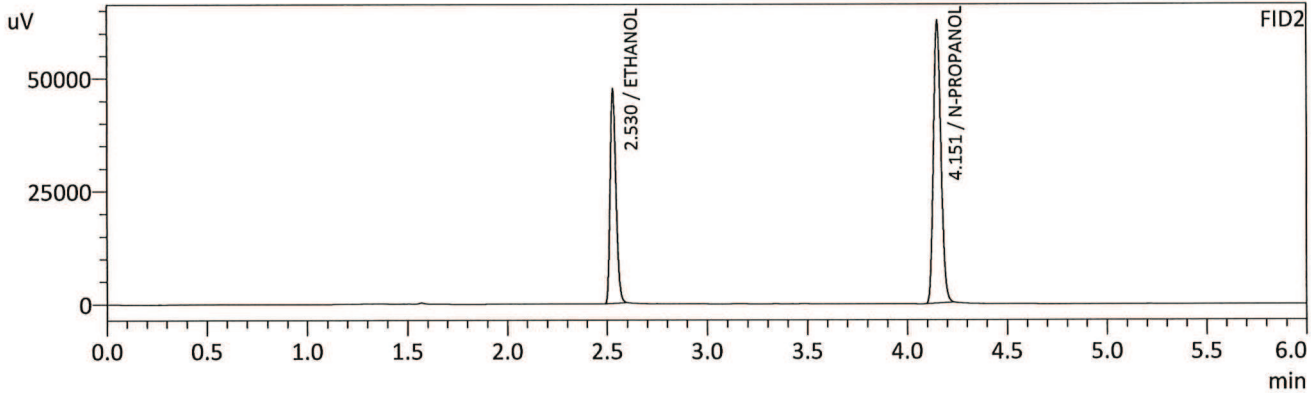
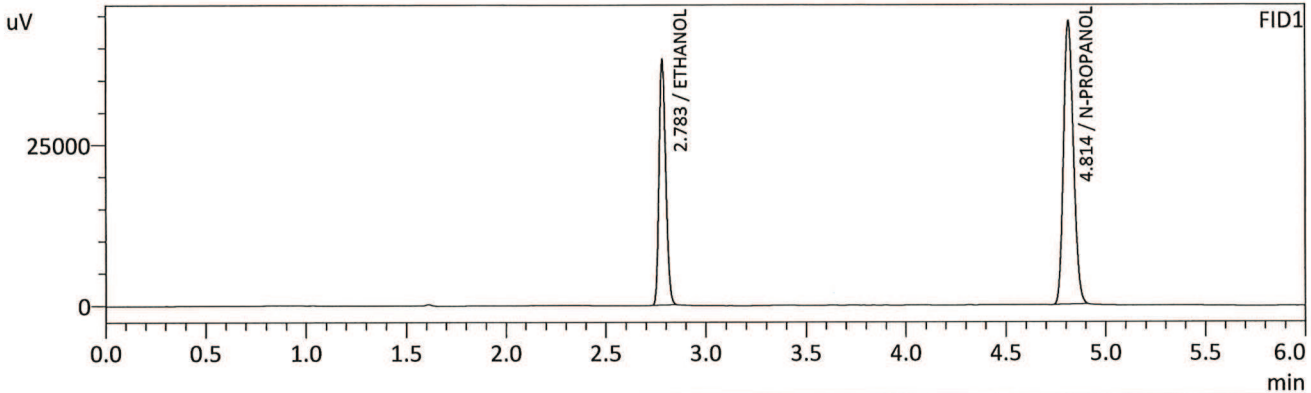
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.1975	g/100cc	58077	24903
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	153165	43479
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.1971	g/100cc	61295	30463
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	164471	62573
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

15

Sample Name : 0.300  
 Vial # : 4  
 Data Filename : 0.300\_1132021\_004.gcd  
 Method Filename : ALCOHOL.gcm  
 Batch Filename : 011321\_TS\_POST.gcb  
 Date Acquired : 1/13/2021 11:50:45 AM  
 Date Processed : 1/14/2021 11:46:53 AM



FID1

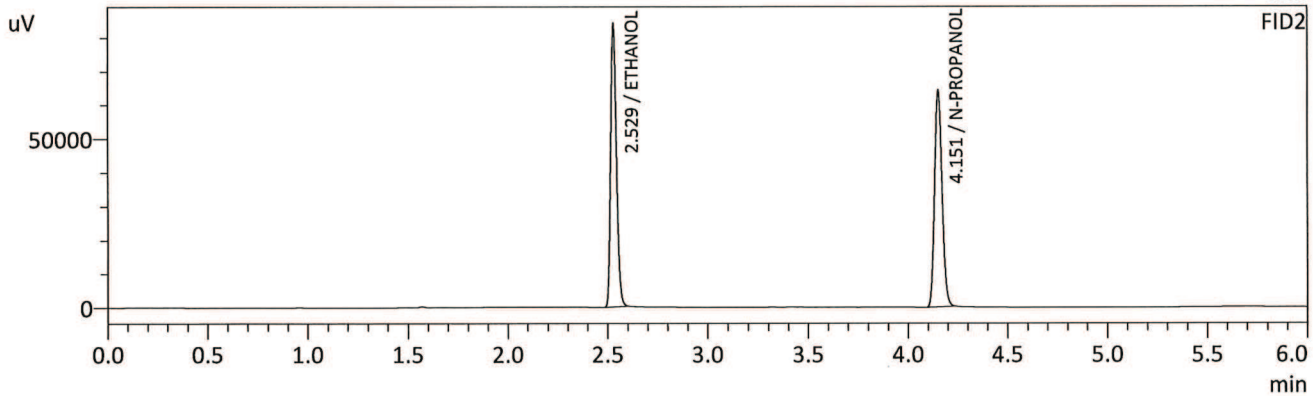
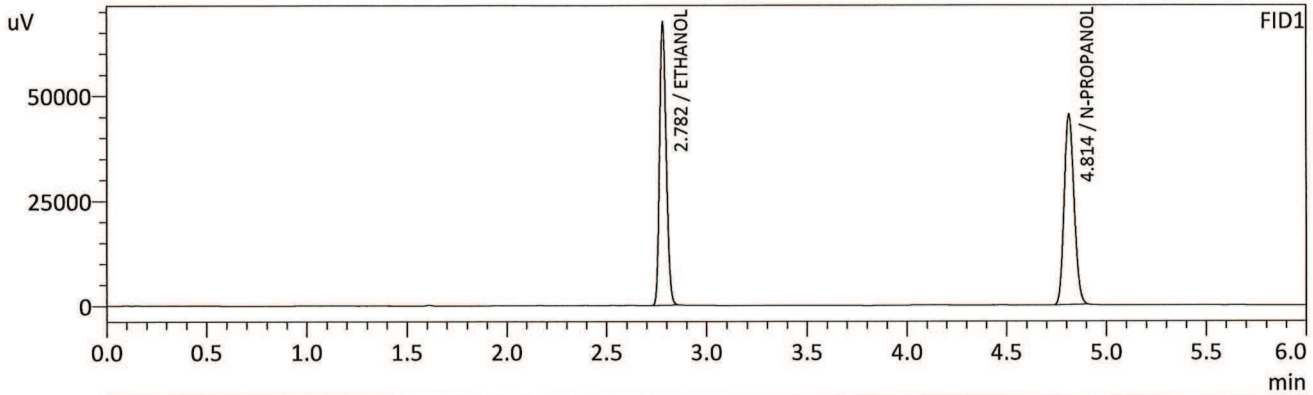
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.2975	g/100cc	88427	37960
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	153570	44012
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.2970	g/100cc	93614	46565
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	164616	62509
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

B

Sample Name : 0.500  
 Vial # : 5  
 Data Filename : 0.500\_1132021\_005.gcd  
 Method Filename : ALCOHOL.gcm  
 Batch Filename : 011321\_TS\_POST.gcb  
 Date Acquired : 1/13/2021 11:59:51 AM  
 Date Processed : 1/14/2021 11:46:55 AM



FID1

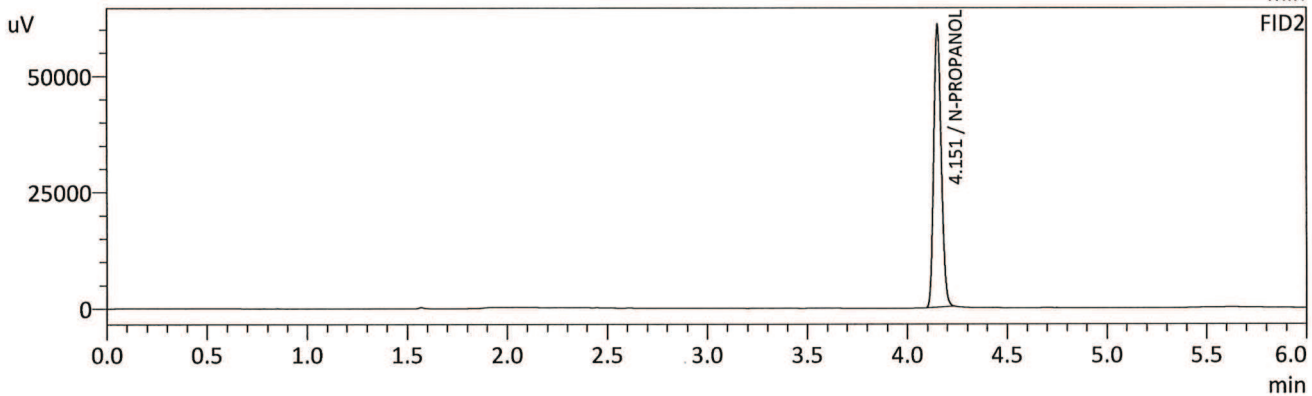
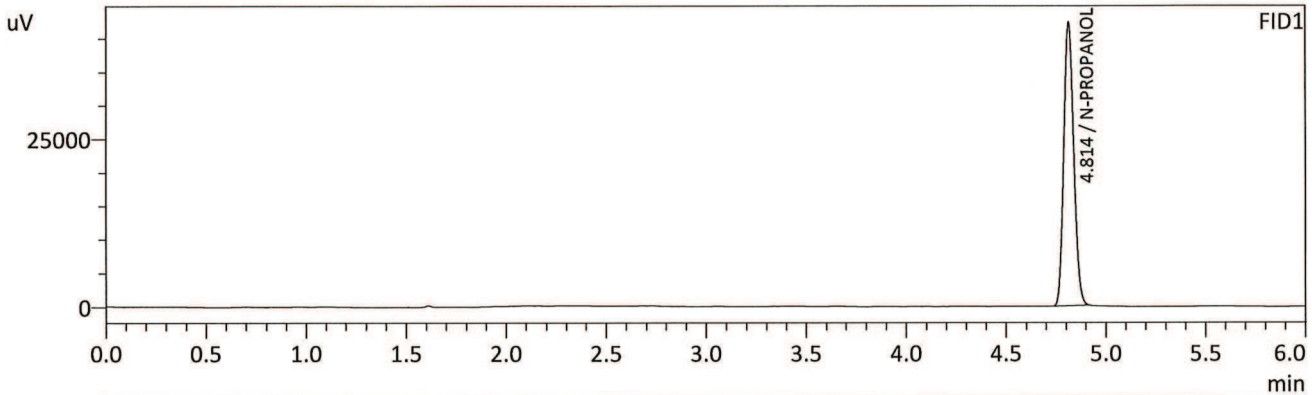
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.5020	g/100cc	155038	66591
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	158549	45366
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.5025	g/100cc	164483	83053
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	169243	64134
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

15

Sample Name : INT STD BLK 1  
 Vial # : 6  
 Data Filename : INT STD BLK 1\_1132021\_006.gcd  
 Method Filename : ALCOHOL.gcm  
 Batch Filename : 011321\_TS\_POST.gcb  
 Date Acquired : 1/13/2021 12:08:46 PM  
 Date Processed : 1/14/2021 11:46:58 AM



FID1

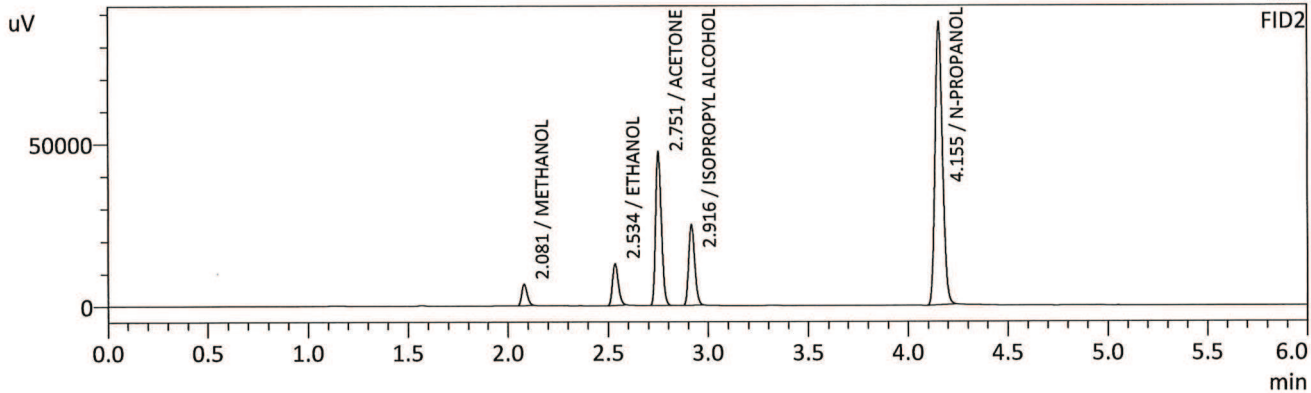
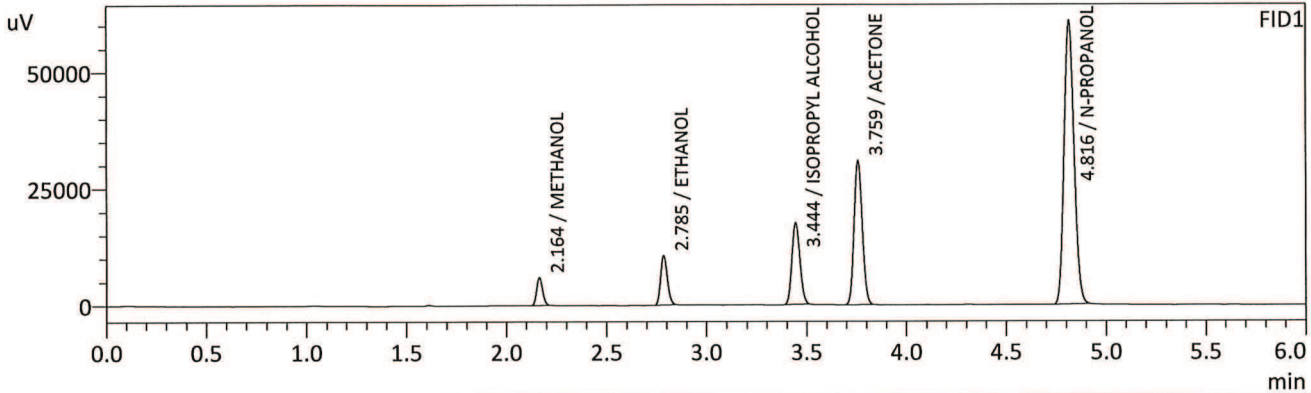
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	147042	42190
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

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	159140	60745
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

15

Sample Name : MULTI-COMP MIX  
 Vial # : 7  
 Data Filename : MULTI-COMP MIX\_1132021\_007.gcd  
 Method Filename : ALCOHOL.gcm  
 Batch Filename : 011321\_TS\_POST.gcb  
 Date Acquired : 1/13/2021 12:17:21 PM  
 Date Processed : 1/14/2021 11:46:59 AM



FID1

Name	Conc.	Unit	Area	Height
METHANOL	0.0000	g/100cc	12237	5940
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0642	g/100cc	24728	10540
ISOPROPYL ALCOHOL	0.0000	g/100cc	48928	17363
ACETONE	0.0000	g/100cc	88630	30827
N-PROPANOL	0.0000	g/100cc	211135	60548
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

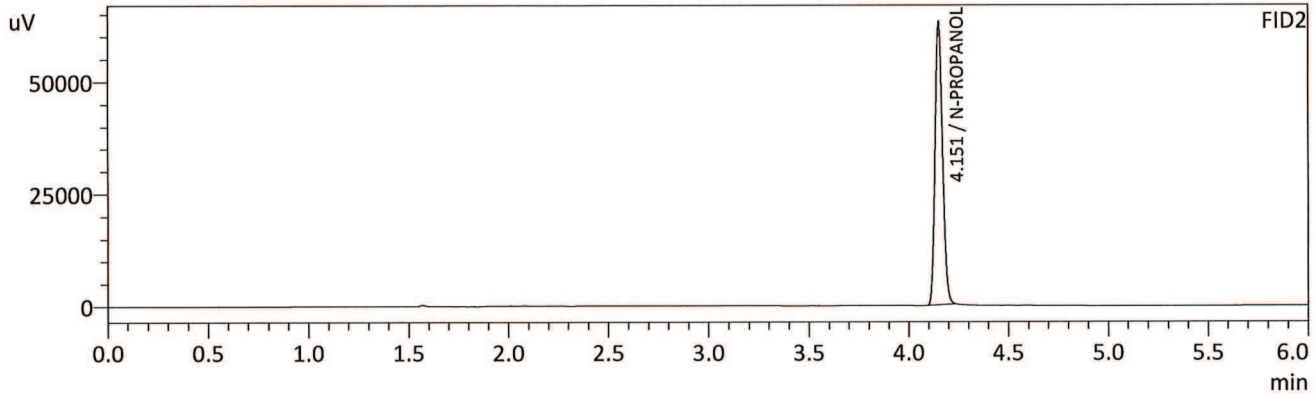
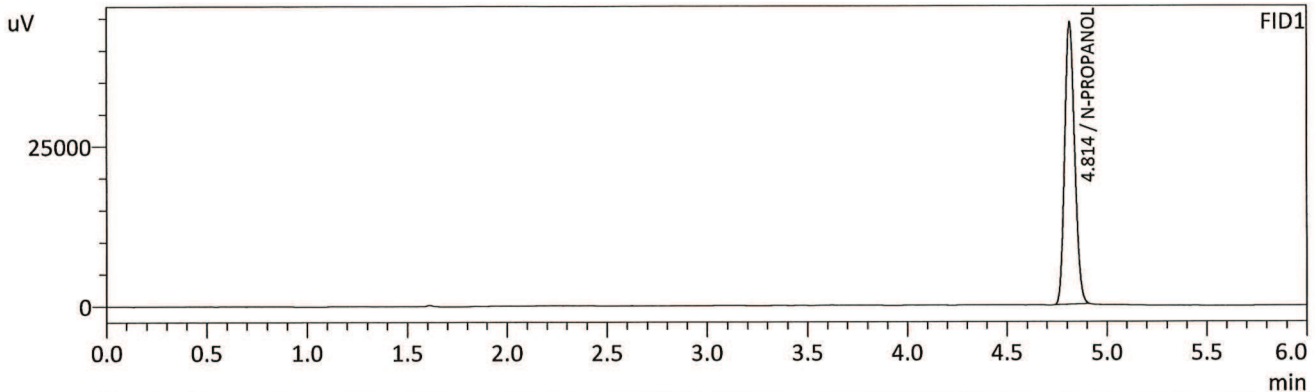
FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	0.0000	g/100cc	12454	6501
ETHANOL	0.0644	g/100cc	25552	12605
ACETONE	0.0000	g/100cc	94880	47161
ISOPROPYL ALCOHOL	0.0000	g/100cc	52508	24710
N-PROPANOL	0.0000	g/100cc	227511	87042
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--



TS

Sample Name : INT STD BLK 2  
 Vial # : 8  
 Data Filename : INT STD BLK 2\_1132021\_008.gcd  
 Method Filename : ALCOHOL.gcm  
 Batch Filename : 011321\_TS\_POST.gcb  
 Date Acquired : 1/13/2021 12:26:29 PM  
 Date Processed : 1/14/2021 11:47:01 AM



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	153600	44102
DFE	--	g/100cc	--	--
TFE	--	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	165487	62949
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--



**VOLATILES DETERMINATION CASEFILE WORKSHEET**

Laboratory No.: QC1-1

Analysis Date(s): 01/13/2021

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0817	0.0815	0.0002	0.0816	0.0000	0.0816
(g/100cc)	0.0815	0.0817	0.0002	0.0816		

**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%**

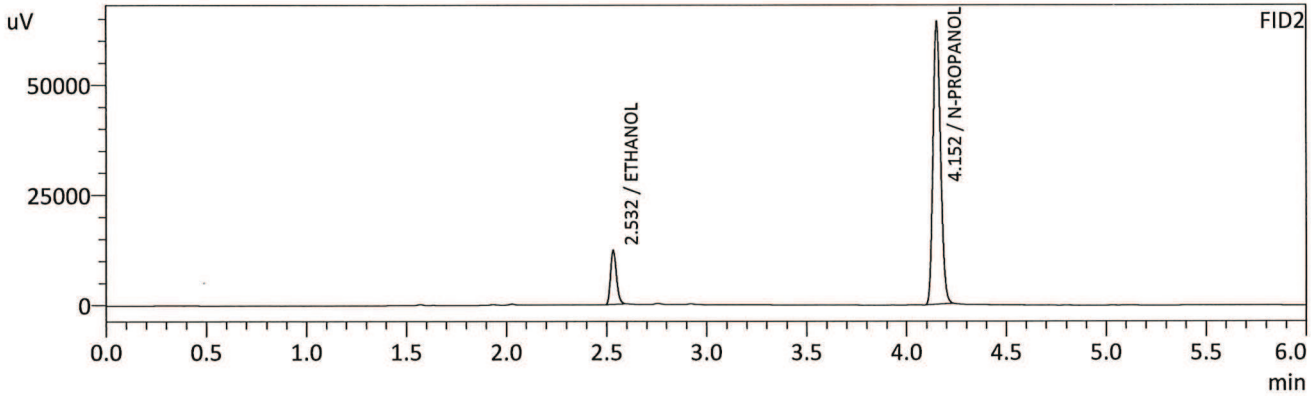
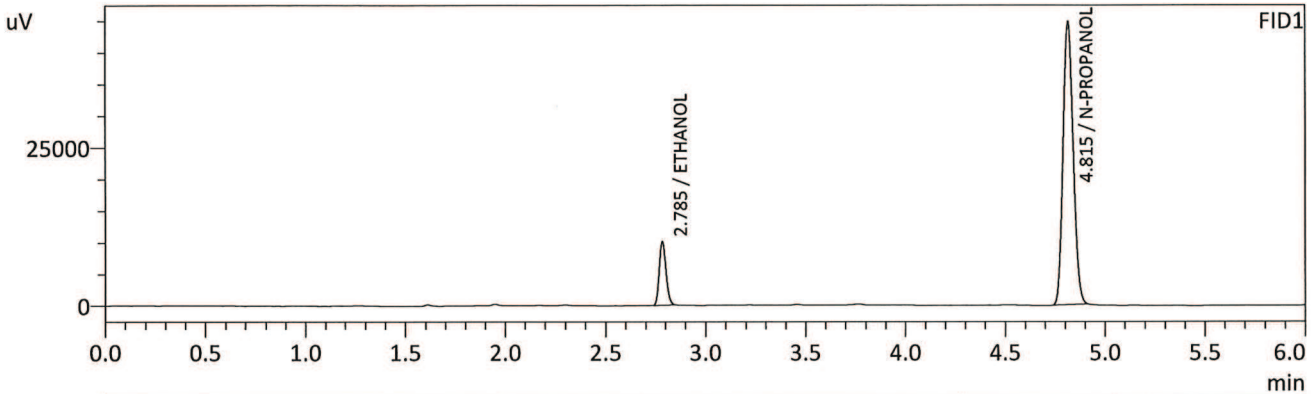
Overall Mean (g/100cc)	Low	High	5% of Mean
0.081	0.076	0.086	0.005

<b>Reported Result</b>	
0.081	

*Calibration and control data are stored centrally.*

TS

Sample Name : QC-1-1-A  
 Vial # : 9  
 Data Filename : QC-1-1-A\_1132021\_009.gcd  
 Method Filename : ALCOHOL.gcm  
 Batch Filename : 011321\_TS\_POST.gcb  
 Date Acquired : 1/13/2021 12:35:08 PM  
 Date Processed : 1/14/2021 11:47:02 AM



FID1

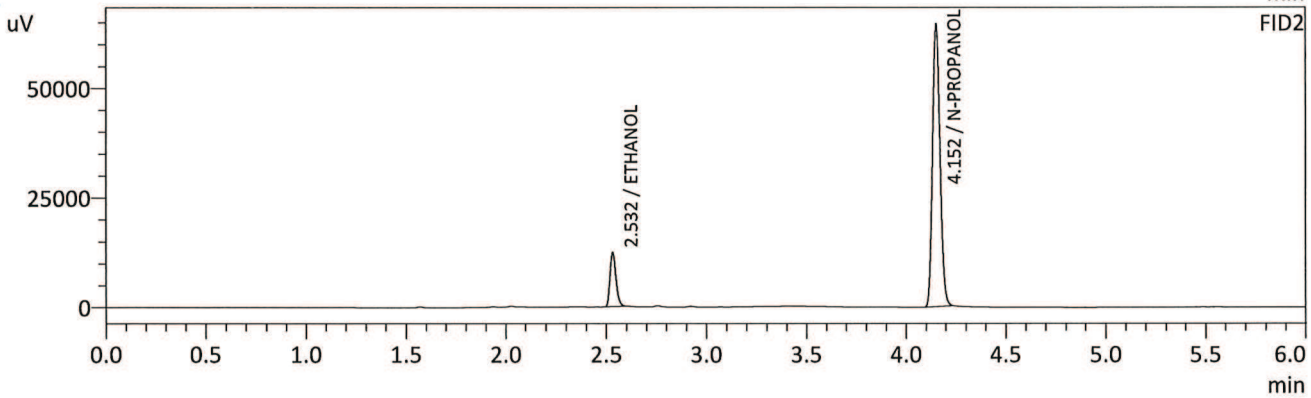
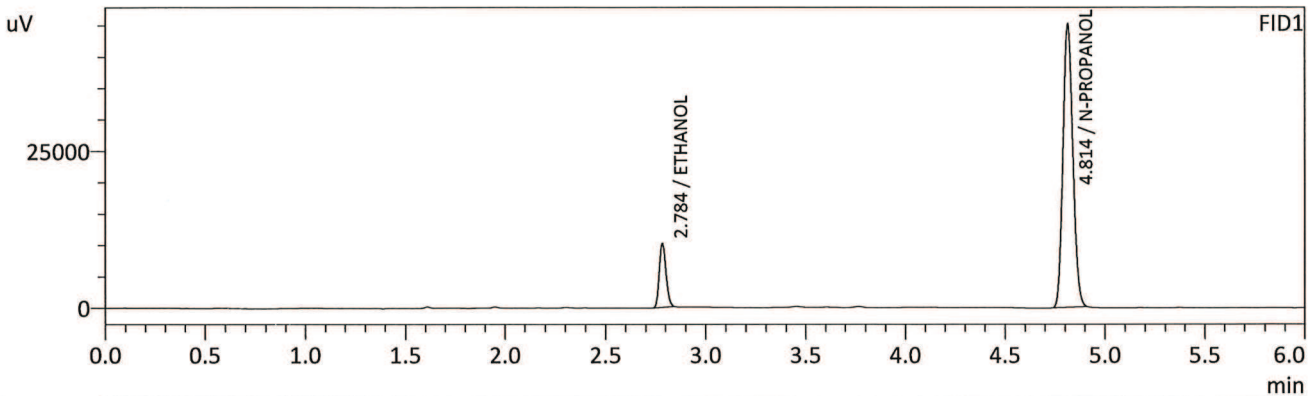
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0817	g/100cc	23693	10075
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	156351	44703
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0815	g/100cc	24575	12227
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	168401	64068
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

TS

Sample Name : QC-1-1-B  
 Vial # : 10  
 Data Filename : QC-1-1-B\_1132021\_010.gcd  
 Method Filename : ALCOHOL.gcm  
 Batch Filename : 011321\_TS\_POST.gcb  
 Date Acquired : 1/13/2021 12:44:12 PM  
 Date Processed : 1/14/2021 11:47:03 AM



FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0815	g/100cc	23807	10167
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	157468	45171
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0817	g/100cc	24803	12338
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	169684	64418
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--



**VOLATILES DETERMINATION CASEFILE WORKSHEET**

Laboratory No.: 0.08 QA

Analysis Date(s): 01/13/2021

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0812	0.0812	0.0000	0.0812	0.0005	0.0809
(g/100cc)	0.0806	0.0809	0.0003	0.0807		

**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%

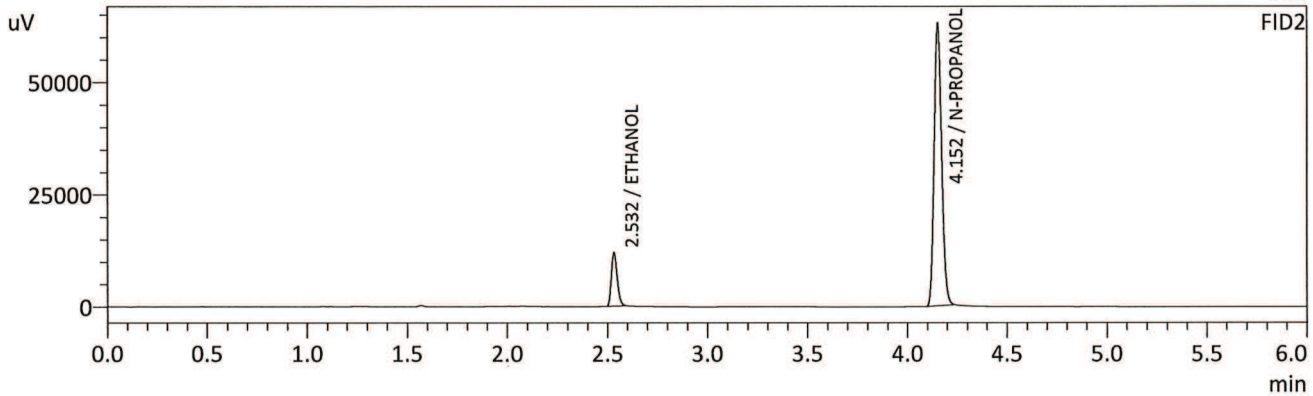
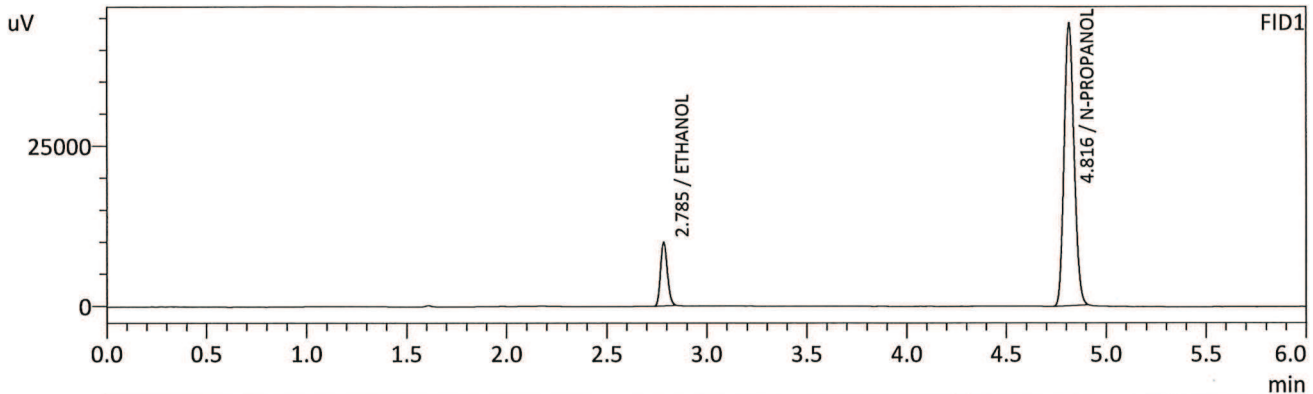
Overall Mean (g/100cc)	Low	High	5% of Mean
0.080	0.076	0.084	0.004

	Reported Result	
	0.080	

*Calibration and control data are stored centrally.*

B

Sample Name : 0.08 QA - A  
 Vial # : 11  
 Data Filename : 0.08 QA - A\_1132021\_011.gcd  
 Method Filename : ALCOHOL.gcm  
 Batch Filename : 011321\_TS\_POST.gcb  
 Date Acquired : 1/13/2021 12:53:00 PM  
 Date Processed : 1/14/2021 11:47:04 AM



FID1

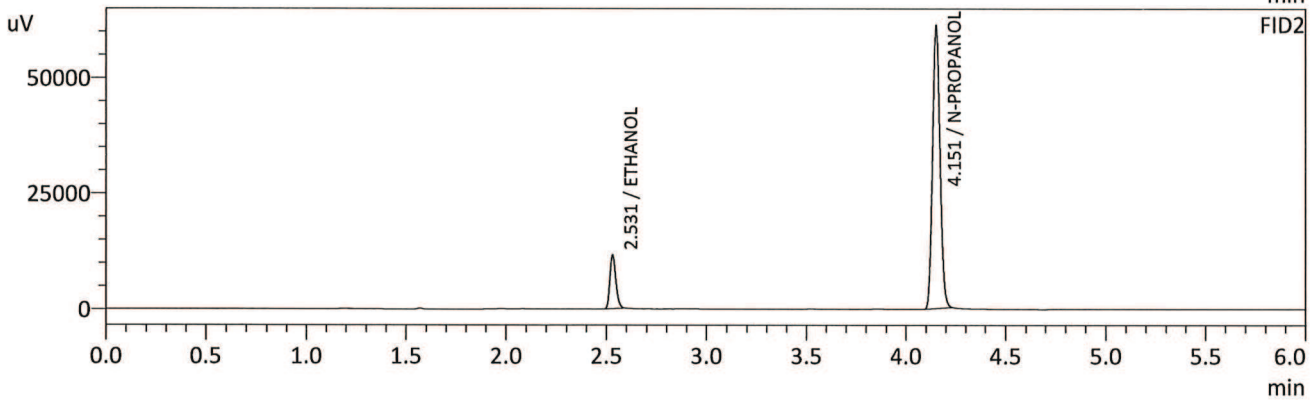
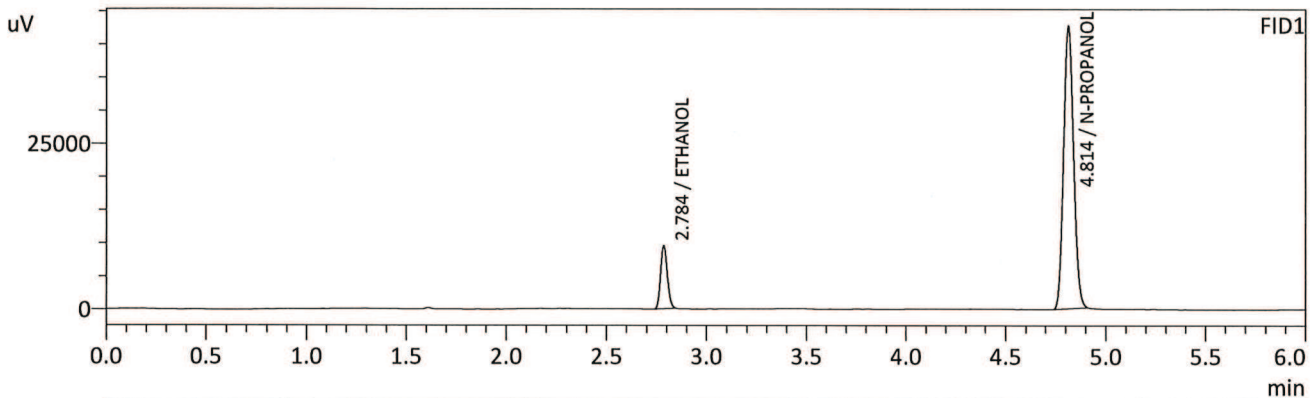
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0812	g/100cc	23155	9855
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	153707	44009
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0812	g/100cc	24071	11972
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	165637	62784
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--



Sample Name : 0.08 QA - B  
 Vial # : 12  
 Data Filename : 0.08 QA - B\_1132021\_012.gcd  
 Method Filename : ALCOHOL.gcm  
 Batch Filename : 011321\_TS\_POST.gcb  
 Date Acquired : 1/13/2021 1:01:53 PM  
 Date Processed : 1/14/2021 11:47:05 AM



FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0806	g/100cc	22255	9521
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	149009	42695
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0809	g/100cc	23241	11539
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	160723	61153
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

## VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC 2-1

Analysis Date(s): 01/13/2021

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.2058	0.2048	0.0010	0.2053	0.0012	0.2047
(g/100cc)	0.2047	0.2035	0.0012	0.2041		

### 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
0.204	0.193	0.215	0.011

Reported Result	
0.204	

*Calibration and control data are stored centrally.*

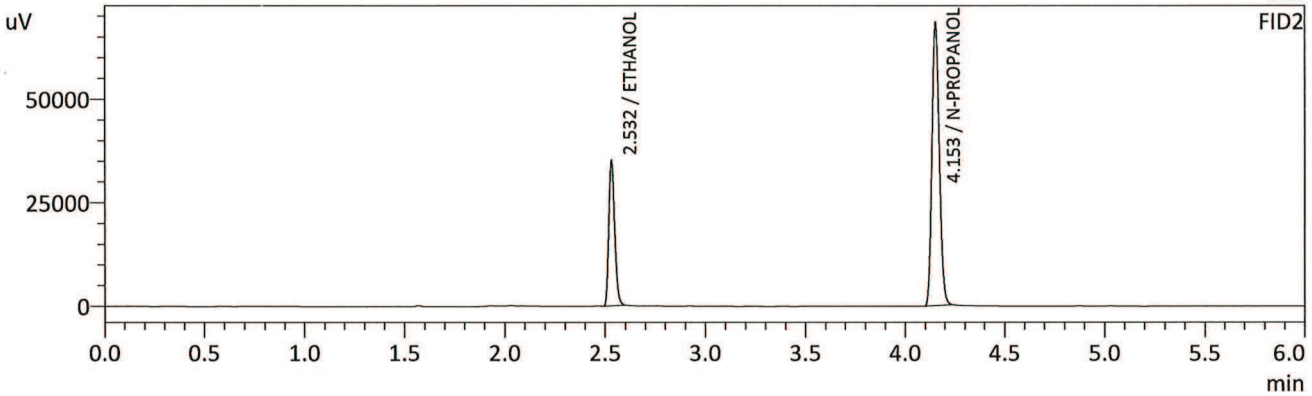
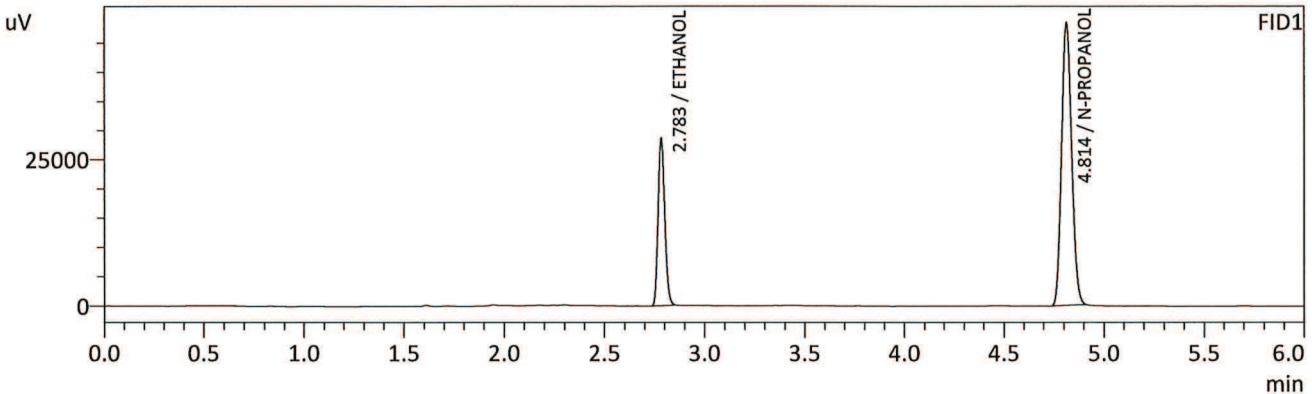
Revision: 3

Issue Date: 12/28/2020



B

Sample Name : QC-2-1-A  
 Vial # : 31  
 Data Filename : QC-2-1-A\_1132021\_031.gcd  
 Method Filename : ALCOHOL.gcm  
 Batch Filename : 011321\_TS\_POST.gcb  
 Date Acquired : 1/13/2021 3:49:43 PM  
 Date Processed : 1/14/2021 11:47:29 AM



FID1

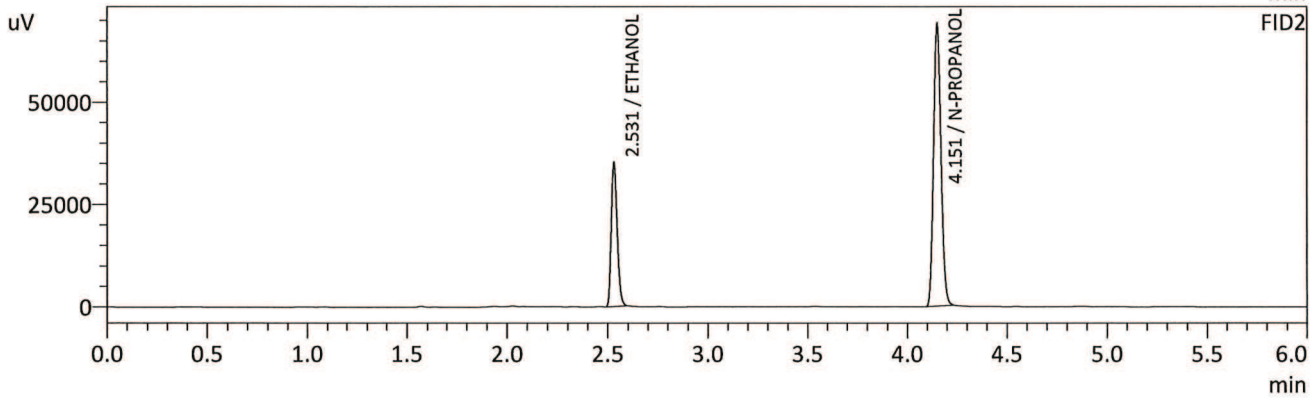
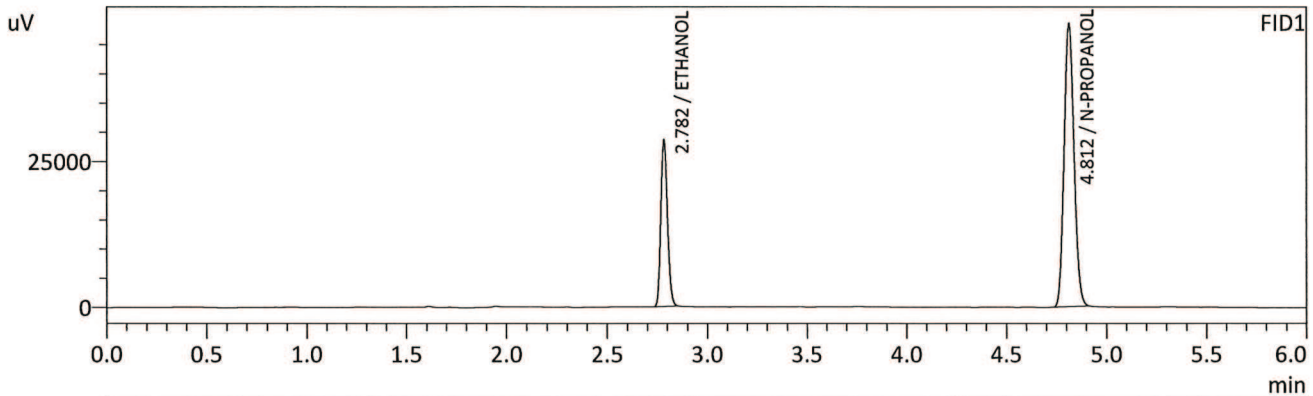
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.2058	g/100cc	66628	28463
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	168475	48403
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.2048	g/100cc	69741	35005
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	179868	67976
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

B

Sample Name : QC-2-1-B  
 Vial # : 32  
 Data Filename : QC-2-1-B\_1132021\_032.gcd  
 Method Filename : ALCOHOL.gcm  
 Batch Filename : 011321\_TS\_POST.gcb  
 Date Acquired : 1/13/2021 3:58:57 PM  
 Date Processed : 1/14/2021 11:47:30 AM



FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.2047	g/100cc	66434	28347
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	168857	48299
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.2035	g/100cc	69610	34956
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	180651	69020
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

15

**VOLATILES DETERMINATION CASEFILE WORKSHEET**

Laboratory No.: QC 1-2

Analysis Date(s): 01/13/2021

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0843	0.0839	0.0004	0.0841	0.0003	0.0842
(g/100cc)	0.0848	0.0841	0.0007	0.0844		

**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%

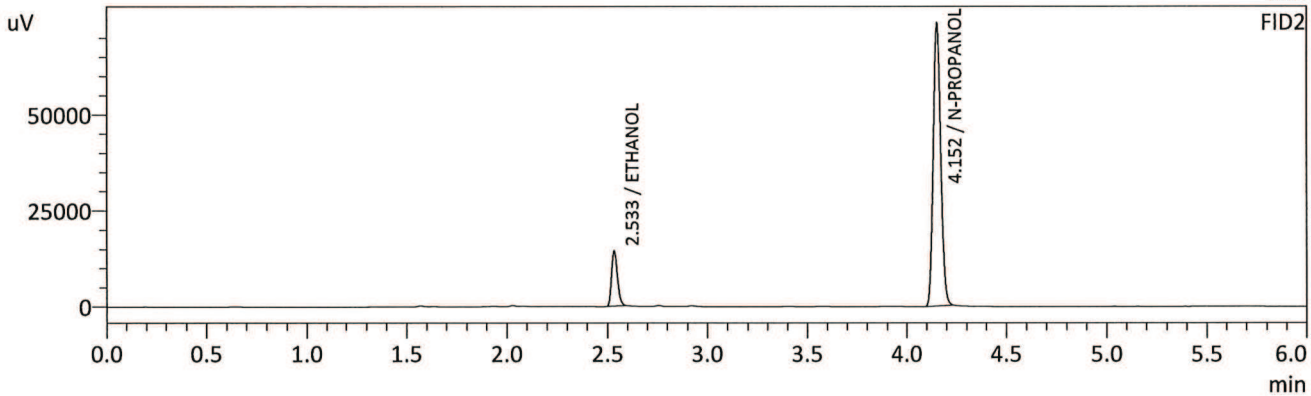
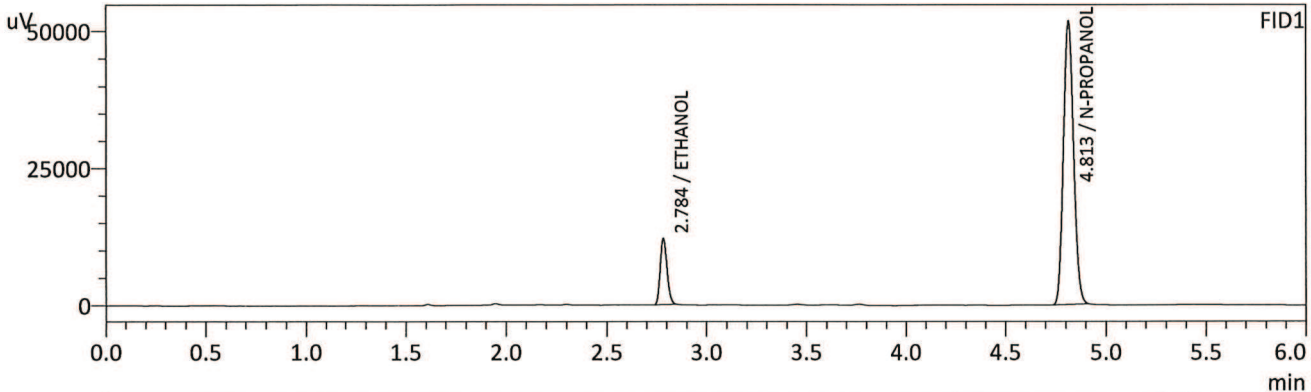
Overall Mean (g/100cc)	Low	High	5% of Mean
0.084	0.079	0.089	0.005

Reported Result	
0.084	

*Calibration and control data are stored centrally.*

TS

Sample Name : QC1-2-A  
 Vial # : 41  
 Data Filename : QC1-2-A\_1132021\_041.gcd  
 Method Filename : ALCOHOL.gcm  
 Batch Filename : 011321\_TS\_POST.gcb  
 Date Acquired : 1/13/2021 5:18:41 PM  
 Date Processed : 1/14/2021 11:47:41 AM



FID1

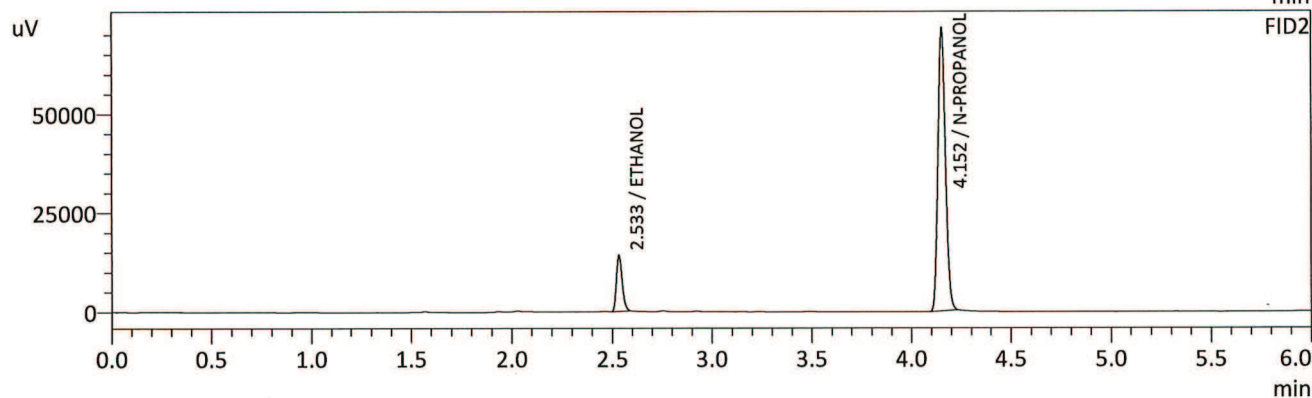
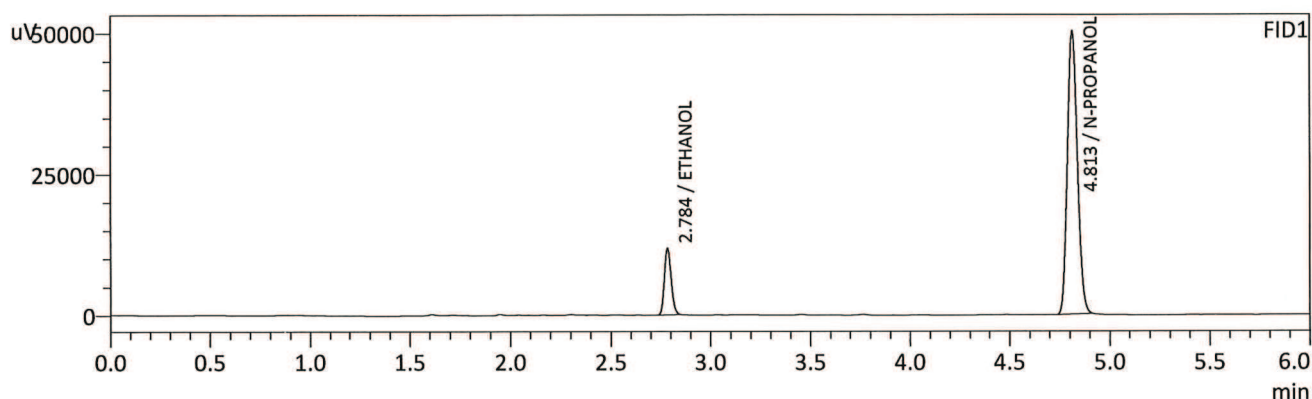
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0843	g/100cc	28248	12049
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	180251	51648
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0839	g/100cc	29005	14423
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	192650	73555
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

15

Sample Name : QC1-2-B  
 Vial # : 42  
 Data Filename : QC1-2-B\_1132021\_042.gcd  
 Method Filename : ALCOHOL.gcm  
 Batch Filename : 011321\_TS\_POST.gcb  
 Date Acquired : 1/13/2021 5:27:21 PM  
 Date Processed : 1/14/2021 11:47:43 AM



FID1

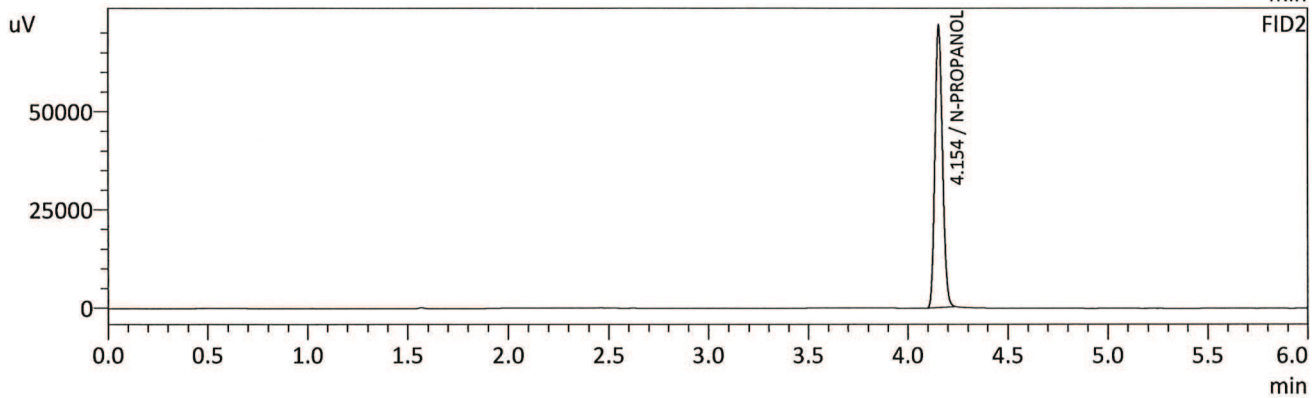
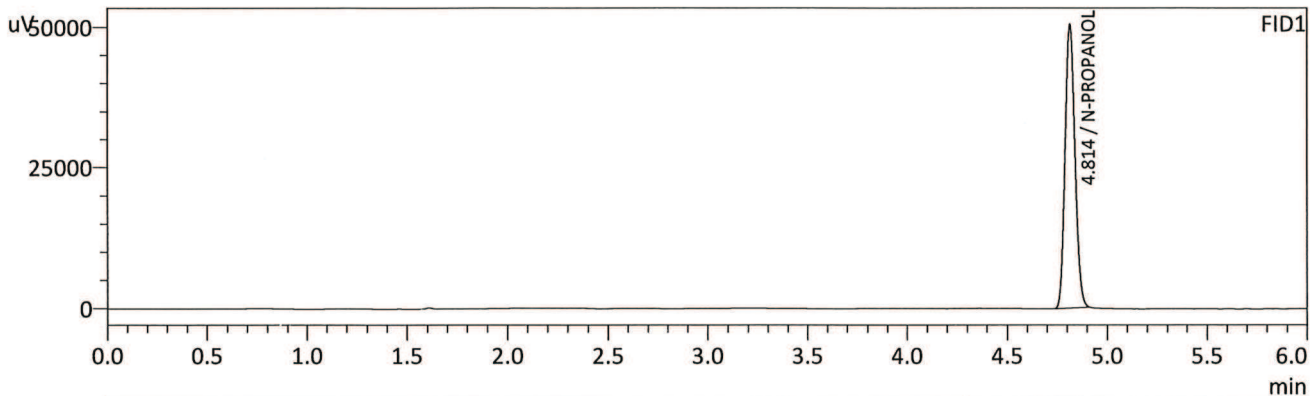
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0848	g/100cc	27453	11735
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	174204	50134
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0841	g/100cc	28127	14057
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	186413	71341
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

B

Sample Name : INT STD BLNK  
 Vial # : 43  
 Data Filename : INT STD BLNK\_1132021\_043.gcd  
 Method Filename : ALCOHOL.gcm  
 Batch Filename : 011321\_TS\_POST.gcb  
 Date Acquired : 1/13/2021 5:36:25 PM  
 Date Processed : 1/14/2021 11:47:44 AM



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	175119	50441
DFE	--	g/100cc	--	--
TFE	--	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	187547	71393
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--