

**REVIEWED**

**By Galina Giso at 3:58 pm, Apr 22, 2021**

4/21/2021

**Worklist: 4921**

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
M2021-1482	1	BCK	Alcohol Analysis	
P2021-0524	1	BCK	Alcohol Analysis	
P2021-0528	1	BCK	Alcohol Analysis	
P2021-1033	1	BCK	Alcohol Analysis	
P2021-1034	1	BCK	Alcohol Analysis	
P2021-1035	1	BCK	Alcohol Analysis	
P2021-1042	1	BCK	Alcohol Analysis	
P2021-1057	1	BCK	Alcohol Analysis	
P2021-1084	1	BCK	Alcohol Analysis	
P2021-1093	1	BCK	Alcohol Analysis	
P2021-1099	1	BCK	Alcohol Analysis	
P2021-1101	1	BCK	Alcohol Analysis	
P2021-1104	1	BCK	Alcohol Analysis	
P2021-1105	1	BCK	Alcohol Analysis	
P2021-1128	1	BCK	Alcohol Analysis	
P2021-1170	1	BCK	Alcohol Analysis	
P2021-1172	1	BCK	Alcohol Analysis	
P2021-1201	2	BCK	Alcohol Analysis	
P2021-1211	1	BCK	Alcohol Analysis	



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): 4-21-21

Calibration curve 4-21-21 Worklist4921

Control Level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Jul-23	1907006	0.0764	0.0688-0.0840	0.0748 g/100cc
					0.0780 g/100cc
					g/100cc
Level 2	Jul-23	1907007	0.2170	0.1953-0.2387	0.2097 g/100cc g/100cc g/100cc
Multi-Component mixture:					ok
Curve Fit:					ok
		Column 1	Lot #	Column 2	
		0.99991	FN07101701	0.99984	

Ethanol Calibration Reference Material

Calibrator level	Target Value	Acceptable Range	Column 1	Column 2	Precision	Mean
50	0.050	0.045 - 0.055	0.0517	0.0525	0.0008	0.0521
100	0.100	0.090 - 0.110	0.1000	0.0998	0.0002	0.0999
200	0.200	0.180 - 0.220	0.1984	0.1976	0.0008	0.198
300	0.300	0.270 - 0.330	0.2981	0.2980	1E-04	0.298
400	0.400	0.360 - 0.440			0	#DIV/0!
500	0.500	0.450 - 0.550	0.5015	0.5018	0.0003	0.5016

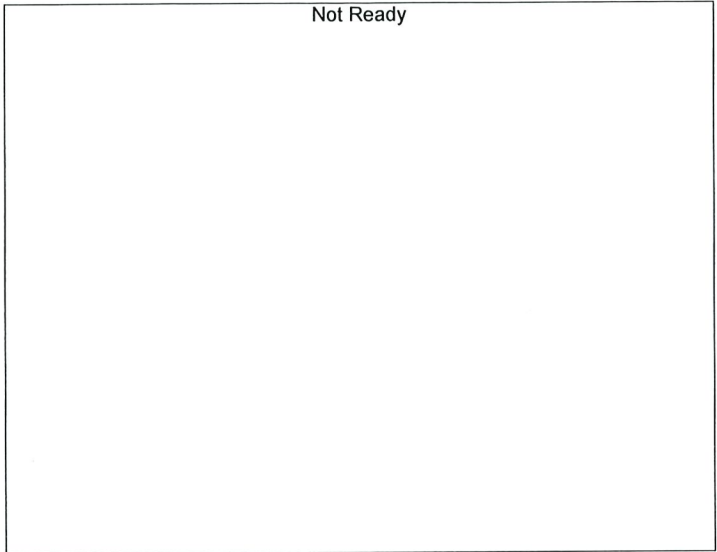
Aqueous Controls

Control level	Target Value	Acceptable Range	Overall Results
80	0.080	0.076 - 0.084	0.081 g/100cc

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Calibration Table  
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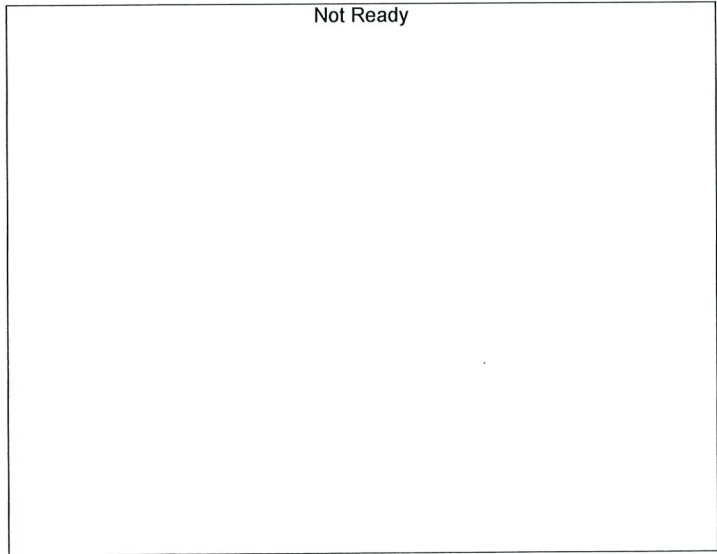
Laboratory: Pocatello  
Instrument Name : GC2030-HS20

<<Data File>>  
Method File :C:\LabSolutions\Data\2021\4-21-21 RC\ALCOHOL.gcm  
Batch File :C:\LabSolutions\Data\2021\4-21-21 RC\4-21-21 RC BATCH.gcb  
Date Acquired :4/21/2021 5:28:43 PM  
Date Created :4/21/2021 5:25:59 PM  
Date Modified :4/22/2021 8:40:45 AM



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

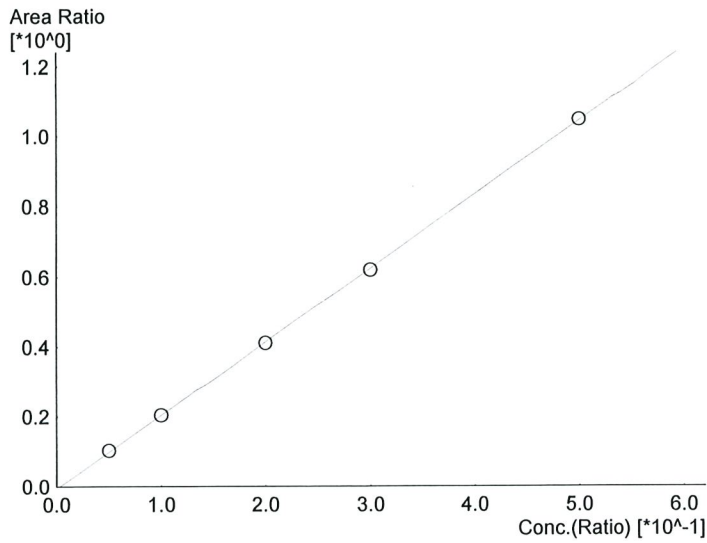
#	Conc.	Area	Std. Conc.
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Name : ACETALDEHYDE  
Detector Name: FID1  
Function :  $f(x)=0*x+0$   
R^2 value= 0  
FitType: Linear  
ZeroThrough: Not Through

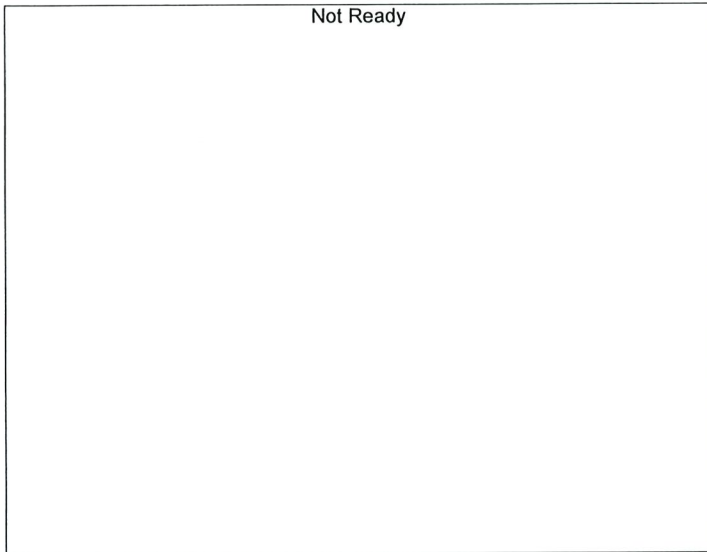
#	Conc.	Area	Std. Conc.
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*HC*



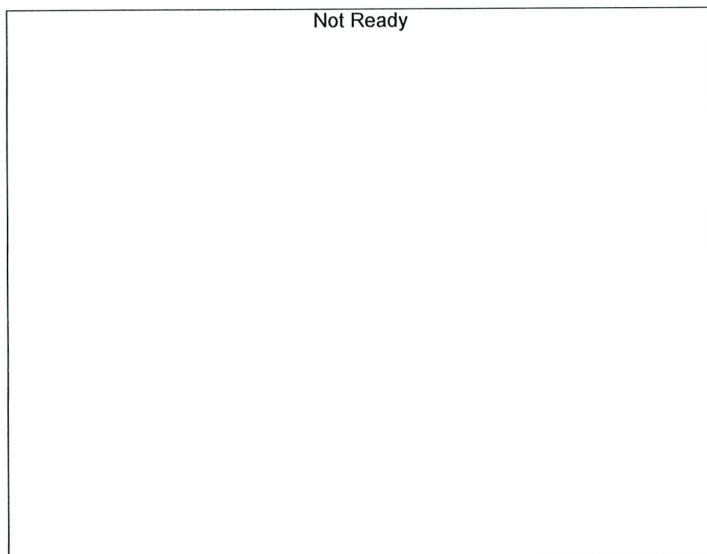
Name : ETHANOL  
 Detector Name: FID1  
 Function :  $f(x)=2.10013*x-0.00658722$   
 R<sup>2</sup> value= 0.9999128 ✓  
 FitType: Linear  
 ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
1	0.050	15607	0.0517
2	0.100	31634	0.1000
3	0.200	63506	0.1984
4	0.300	95908	0.2981
5	0.500	167144	0.5015



Name : ISOPROPYL ALCOHOL  
 Detector Name: FID1  
 Function :  $f(x)=0*x+0$   
 R<sup>2</sup> value= 0  
 FitType: Linear  
 ZeroThrough: Not Through

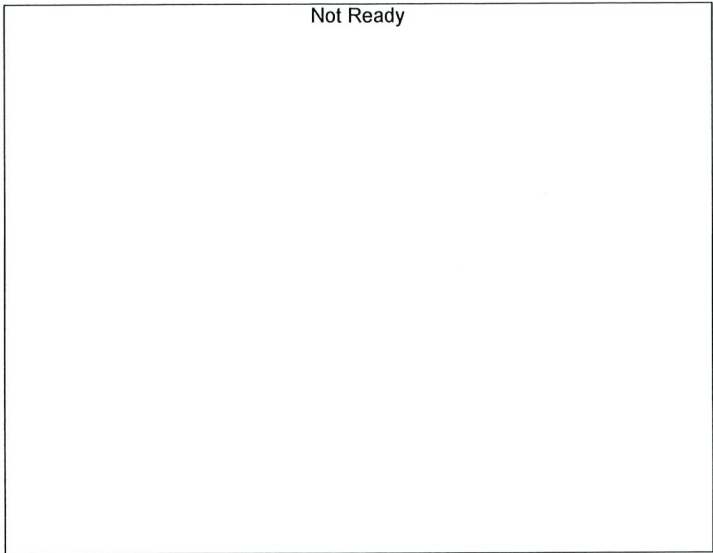
#	Conc.	Area	Std. Conc.
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Name : ACETONE  
 Detector Name: FID1  
 Function :  $f(x)=0*x+0$   
 R<sup>2</sup> value= 0  
 FitType: Linear  
 ZeroThrough: Not Through

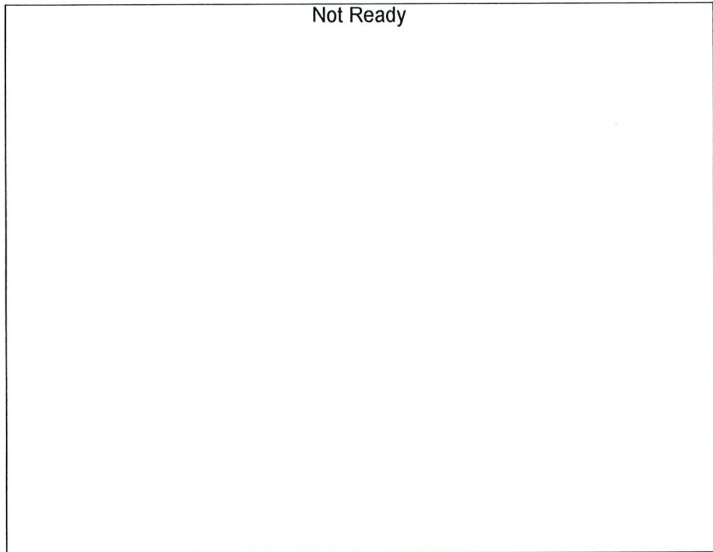
#	Conc.	Area	Std. Conc.
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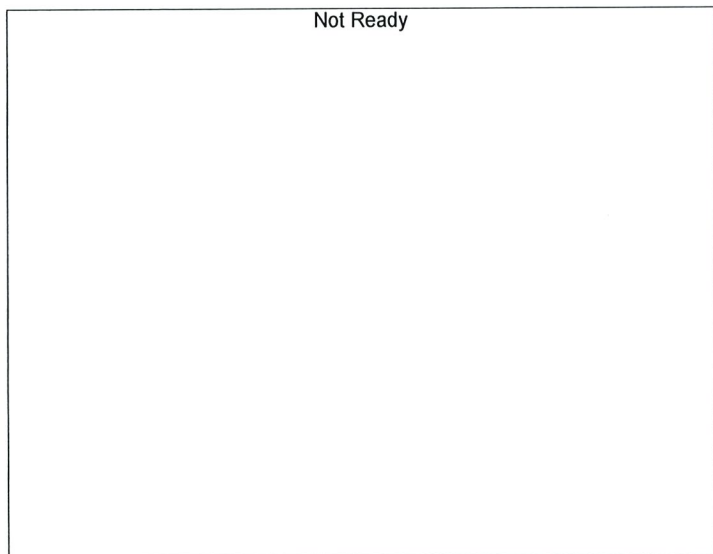
Name : DFE  
Detector Name: FID1  
Function :  $f(x)=0*x+0$   
R^2 value= 0  
FitType: Linear  
ZeroThrough: Not Through

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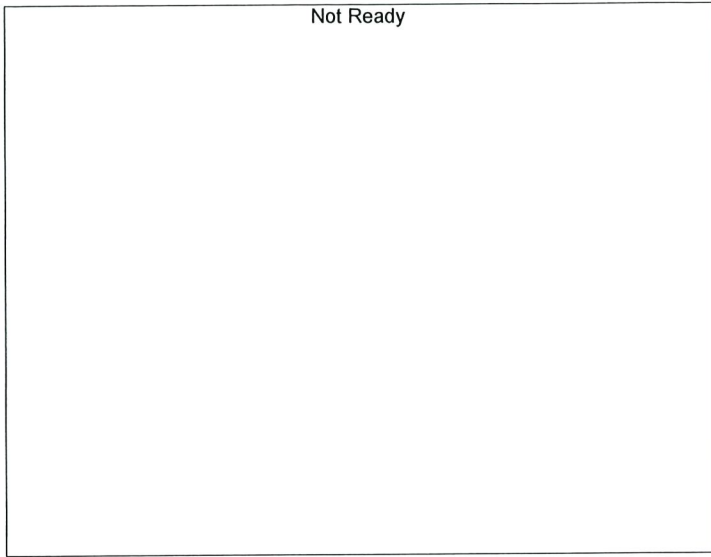
Name : TFE  
Detector Name: FID1  
Function :  $f(x)=0*x+0$   
R^2 value= 0  
FitType: Linear  
ZeroThrough: Not Through

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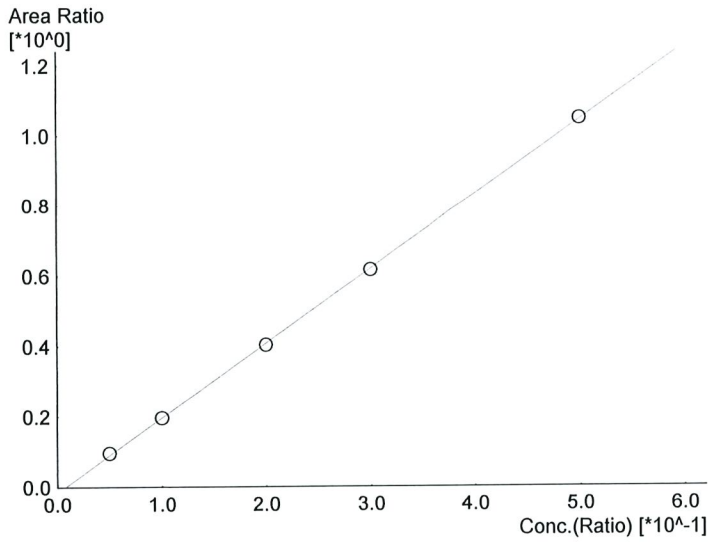
Name : ACETALDEHYDE  
Detector Name: FID2  
Function :  $f(x)=0*x+0$   
R^2 value= 0  
FitType: Linear  
ZeroThrough: Not Through

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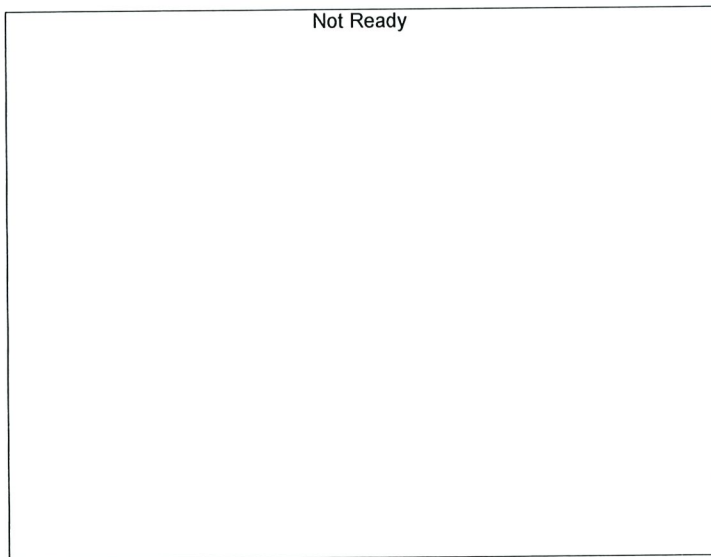
Name : METHANOL  
 Detector Name: FID2  
 Function :  $f(x)=0*x+0$   
 R<sup>2</sup> value= 0  
 FitType: Linear  
 ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
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Name : ETHANOL  
 Detector Name: FID2  
 Function :  $f(x)=2.12000*x-0.0161878$   
 R<sup>2</sup> value= 0.9998480 ✓  
 FitType: Linear  
 ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
1	0.050	15211	0.0525
2	0.100	31761	0.0998
3	0.200	65085	0.1976
4	0.300	99089	0.2980
5	0.500	174314	0.5018



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

#	Conc.	Area	Std. Conc.
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JHC



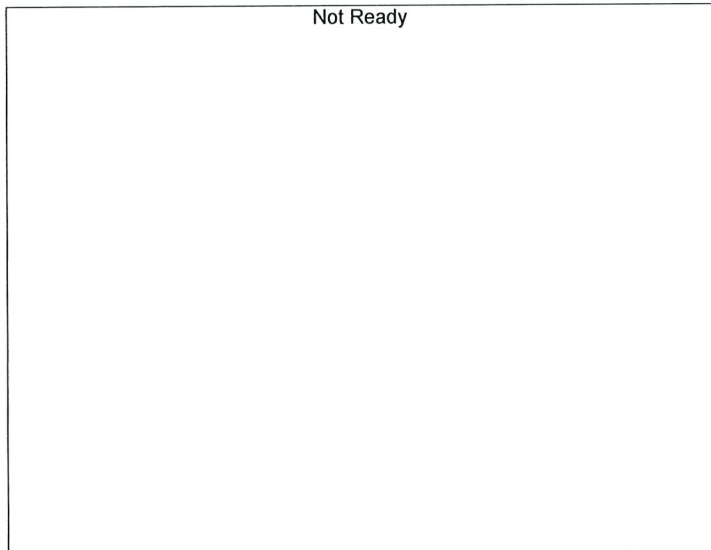
Name : ISOPROPYL ALCOHOL  
Detector Name: FID2  
Function :  $f(x)=0*x+0$   
R<sup>2</sup> value= 0  
FitType: Linear  
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
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Name : DFE  
Detector Name: FID2  
Function :  $f(x)=0*x+0$   
R<sup>2</sup> value= 0  
FitType: Linear  
ZeroThrough: Not Through

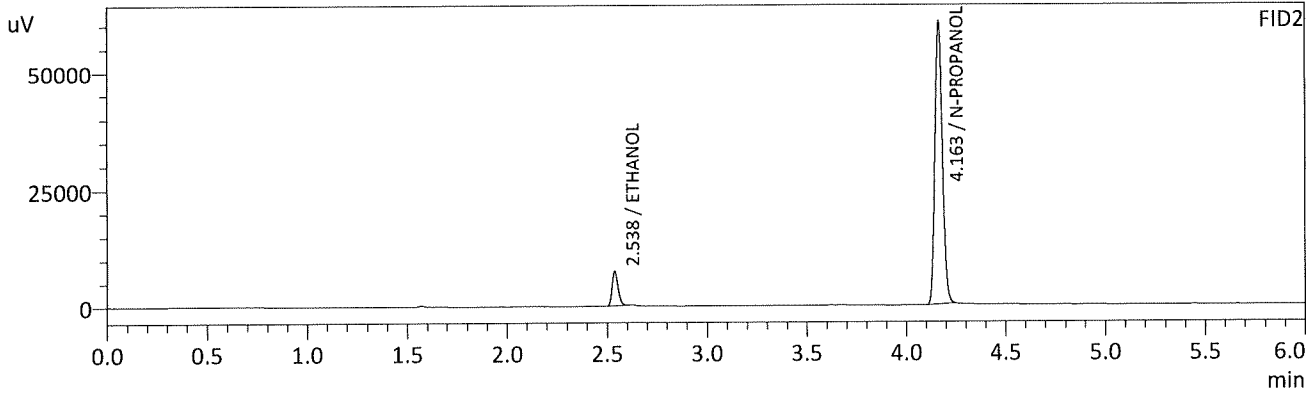
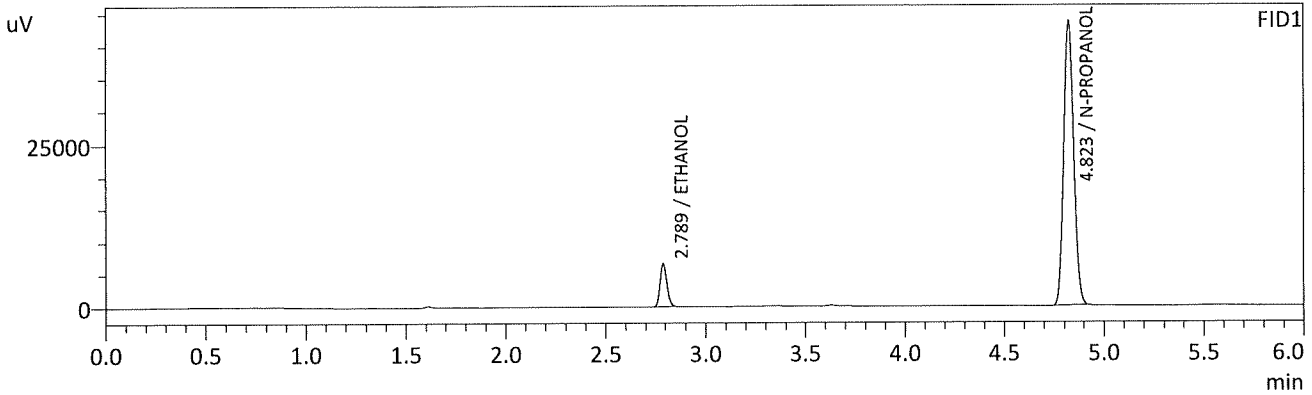
#	Conc.	Area	Std. Conc.
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Name : TFE  
Detector Name: FID2  
Function :  $f(x)=0*x+0$   
R<sup>2</sup> value= 0  
FitType: Linear  
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
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Sample Name : 0.050  
 Vial # : 1  
 Data Filename : 0.050\_4212021\_001.gcd  
 Method Filename : ALCOHOL.gcm  
 Batch Filename : 4-21-21 RC BATCH.gcb  
 Date Acquired : 4/21/2021 4:53:14 PM  
 Date Processed : 4/22/2021 8:40:40 AM



FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0517	g/100cc	15607	6616
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	152868	43610
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

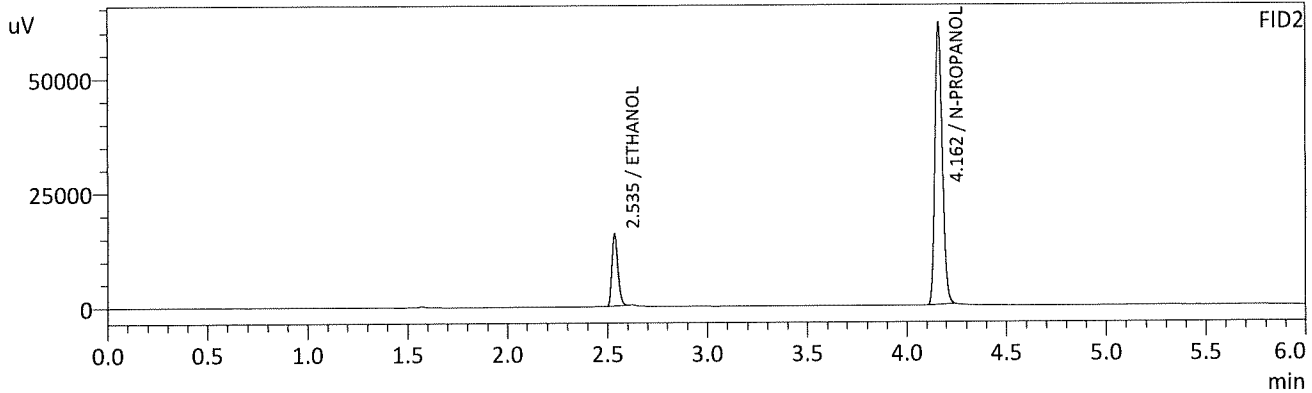
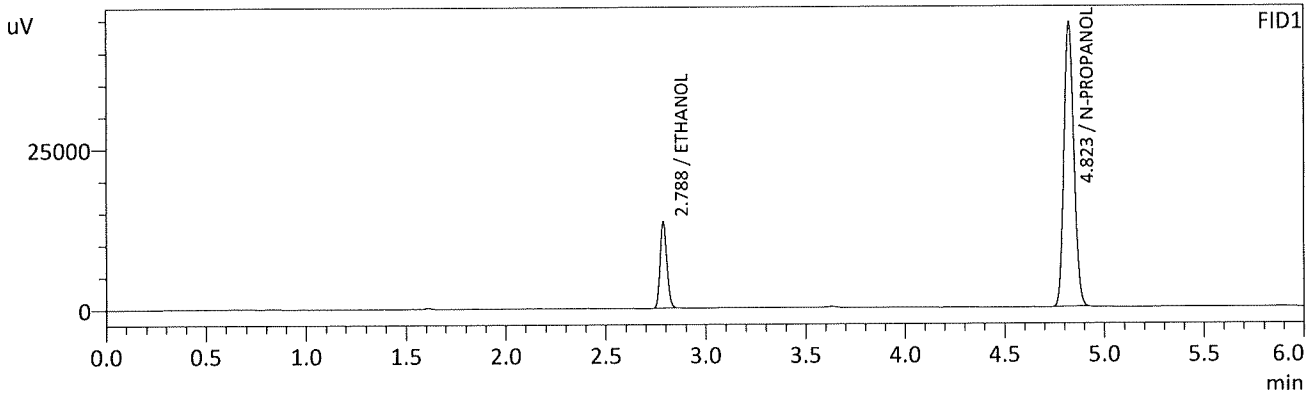
FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0525	g/100cc	15211	7523
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	159680	60148
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

*Handwritten signature/initials*



Sample Name : 0.100  
 Vial # : 2  
 Data Filename : 0.100\_4212021\_002.gcd  
 Method Filename : ALCOHOL.gcm  
 Batch Filename : 4-21-21 RC BATCH.gcb  
 Date Acquired : 4/21/2021 5:02:03 PM  
 Date Processed : 4/22/2021 8:40:41 AM



FID1

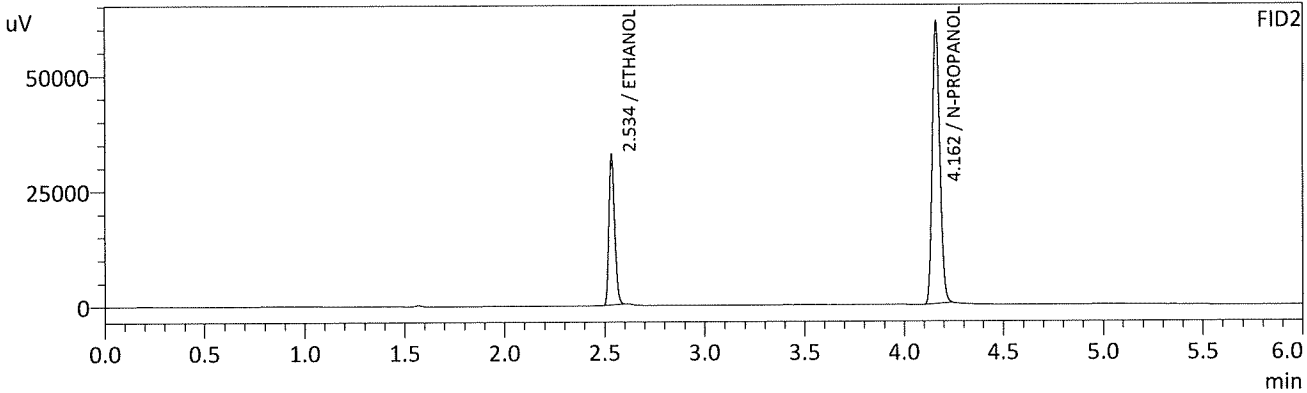
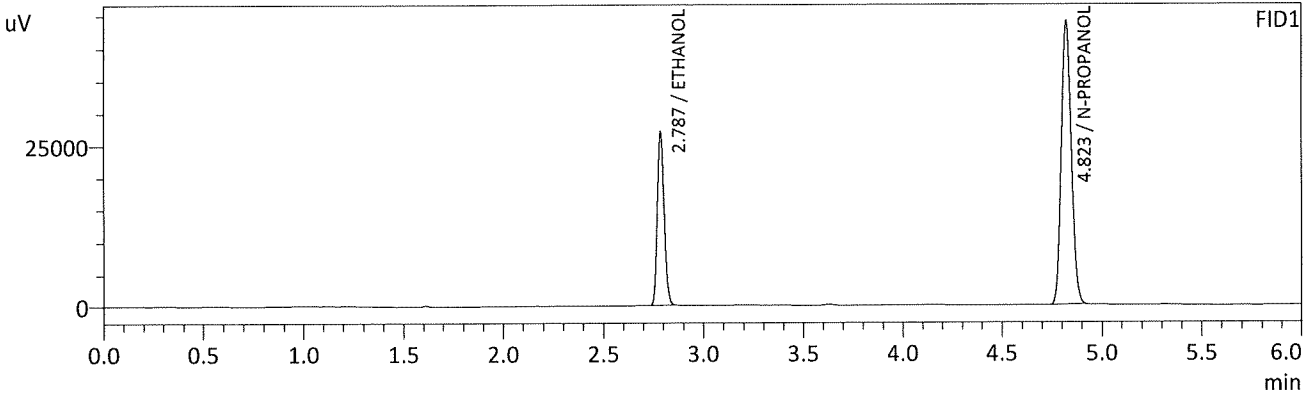
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.1000	g/100cc	31634	13419
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	155355	44292
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0998	g/100cc	31761	15721
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	162483	61535
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

*Handwritten signature/initials*

Sample Name : 0.200  
 Vial # : 3  
 Data Filename : 0.200\_4212021\_003.gcd  
 Method Filename : ALCOHOL.gcm  
 Batch Filename : 4-21-21 RC BATCH.gcb  
 Date Acquired : 4/21/2021 5:11:08 PM  
 Date Processed : 4/22/2021 8:40:42 AM



FID1

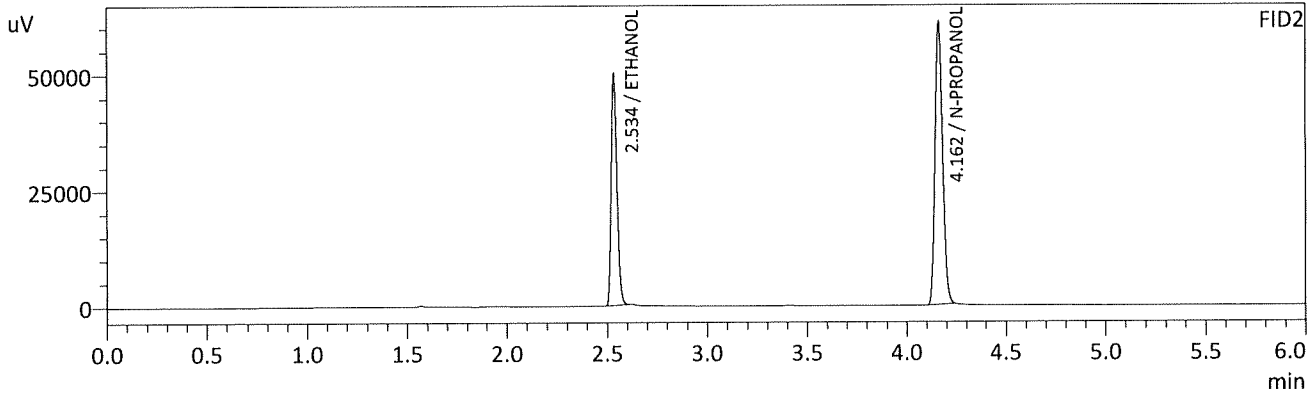
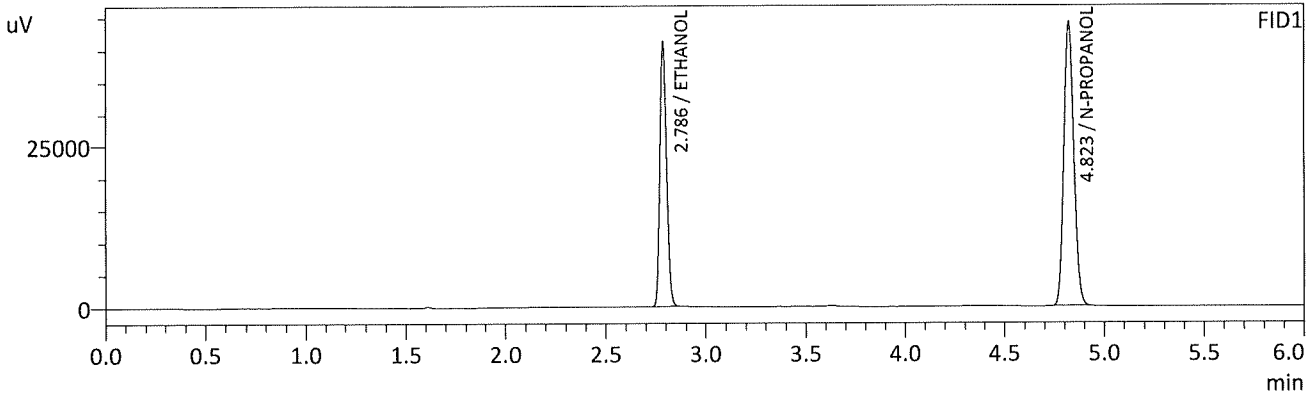
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.1984	g/100cc	63506	26883
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	154785	44004
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.1976	g/100cc	65085	32238
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	161561	61158
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

RC

Sample Name : 0.300  
 Vial # : 4  
 Data Filename : 0.300\_4212021\_004.gcd  
 Method Filename : ALCOHOL.gcm  
 Batch Filename : 4-21-21 RC BATCH.gcb  
 Date Acquired : 4/21/2021 5:19:51 PM  
 Date Processed : 4/22/2021 8:40:43 AM



FID1

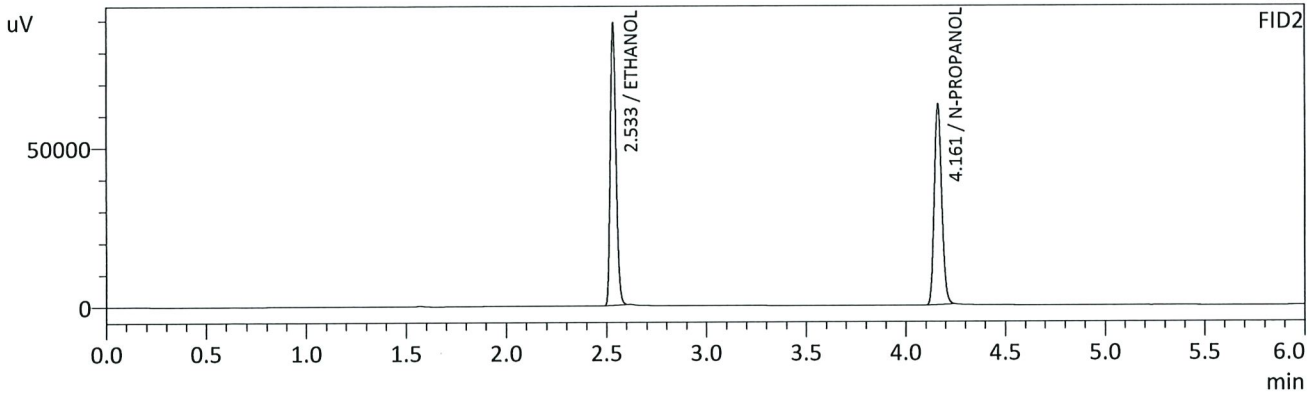
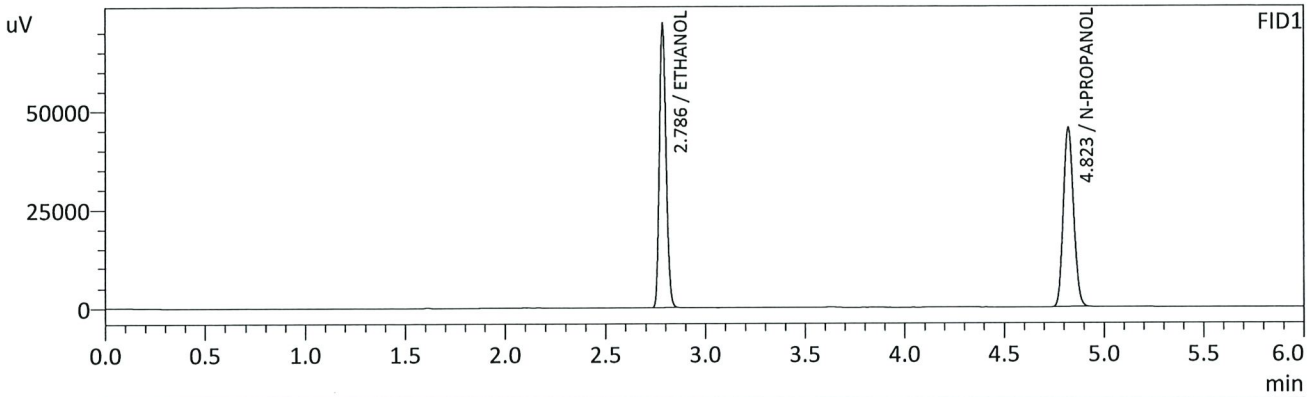
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.2981	g/100cc	95908	40648
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	154810	44028
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.2980	g/100cc	99089	49160
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	160945	60807
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

*RC*

Sample Name : 0.500  
 Vial # : 5  
 Data Filename : 0.500\_4212021\_005.gcd  
 Method Filename : ALCOHOL.gcm  
 Batch Filename : 4-21-21 RC BATCH.gcb  
 Date Acquired : 4/21/2021 5:28:43 PM  
 Date Processed : 4/22/2021 8:40:45 AM



FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.5015	g/100cc	167144	71706
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	159688	45454
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

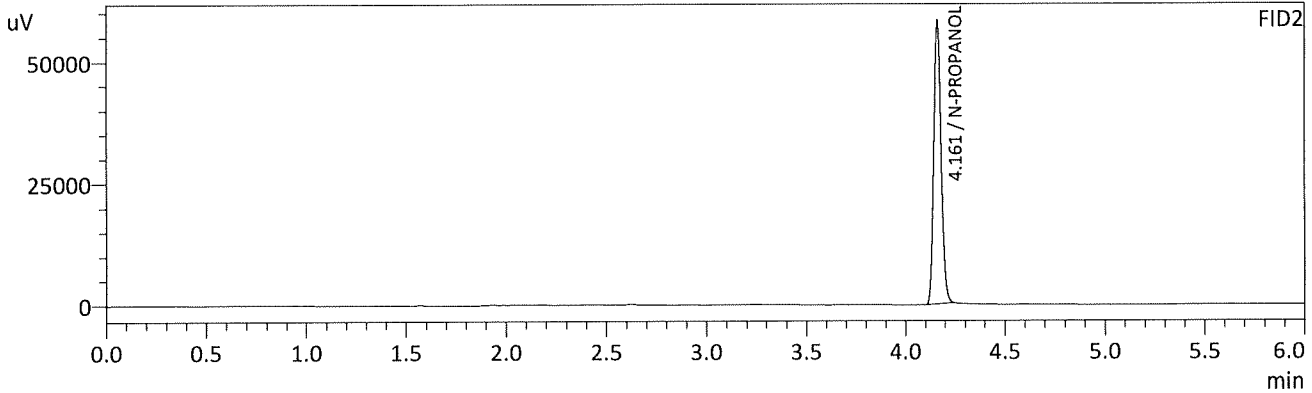
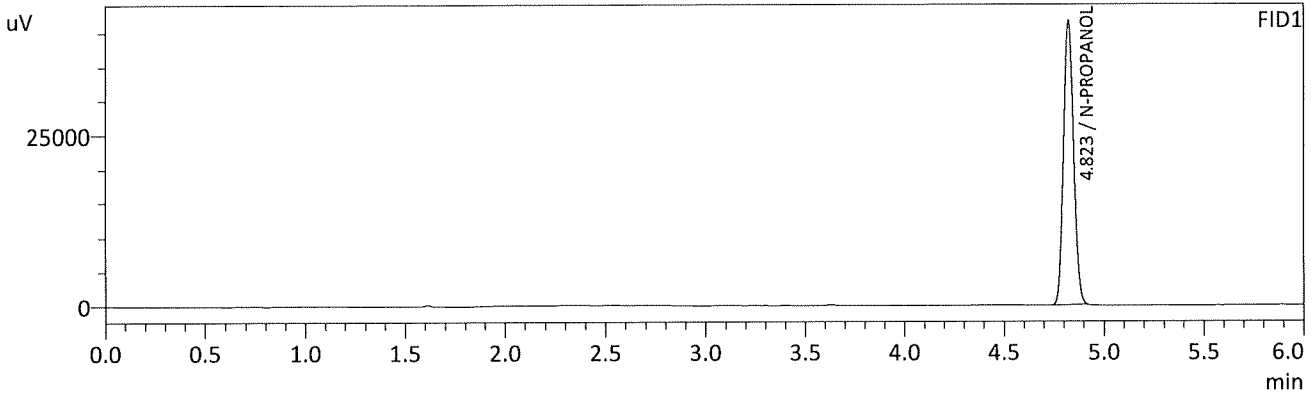
FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.5018	g/100cc	174314	88479
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	166362	63088
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

RC



Sample Name : INT STD BLK 1  
 Vial # : 6  
 Data Filename : INT STD BLK 1\_4212021\_006.gcd  
 Method Filename : ALCOHOL.gcm  
 Batch Filename : 4-21-21 RC BATCH.gcb  
 Date Acquired : 4/21/2021 5:37:50 PM  
 Date Processed : 4/22/2021 8:40:47 AM



FID1

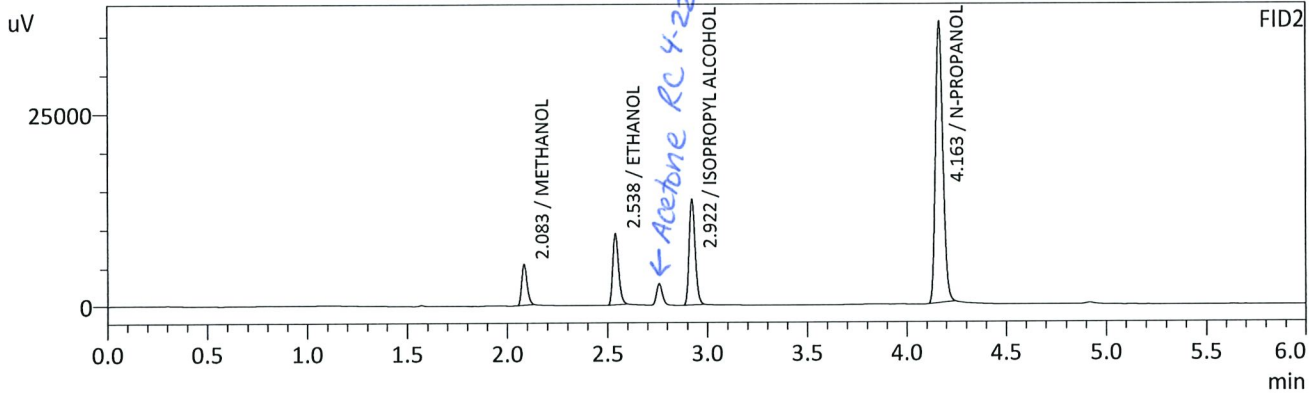
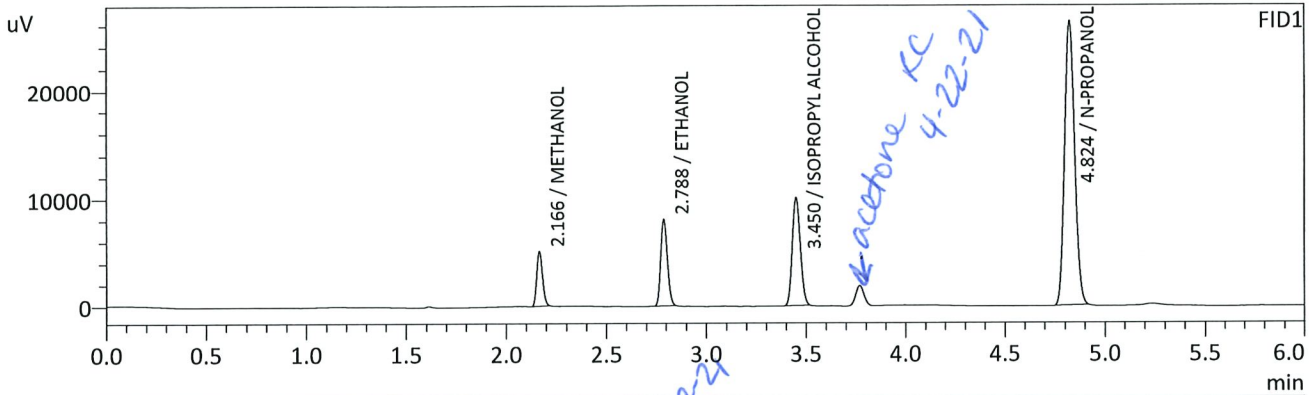
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	146077	41678
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

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	153364	58237
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

RC

Sample Name : MULTI-COMP MIX  
 Vial # : 7  
 Data Filename : MULTI-COMP MIX\_4212021\_007.gcd  
 Method Filename : ALCOHOL.gcm  
 Batch Filename : 4-21-21 RC BATCH.gcb  
 Date Acquired : 4/21/2021 5:46:36 PM  
 Date Processed : 4/22/2021 8:40:48 AM



FID1

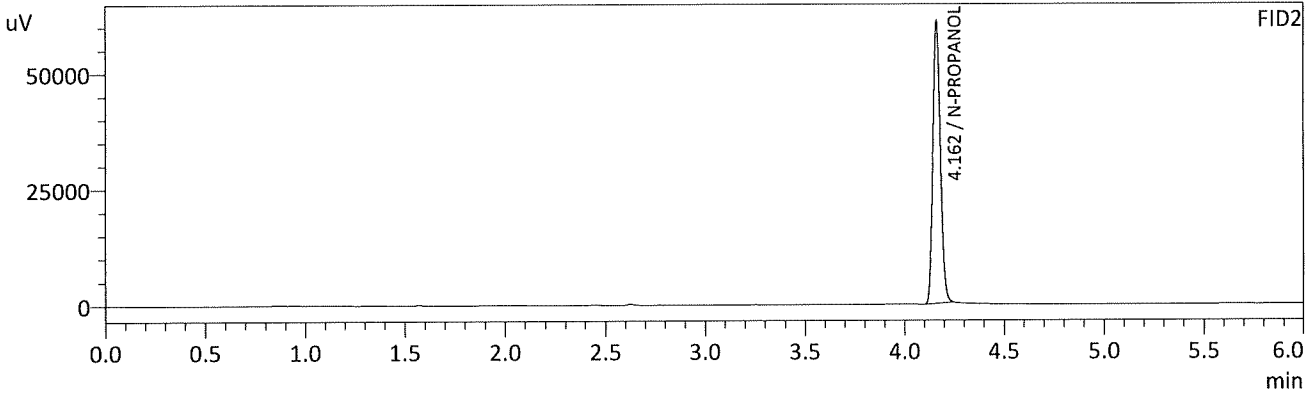
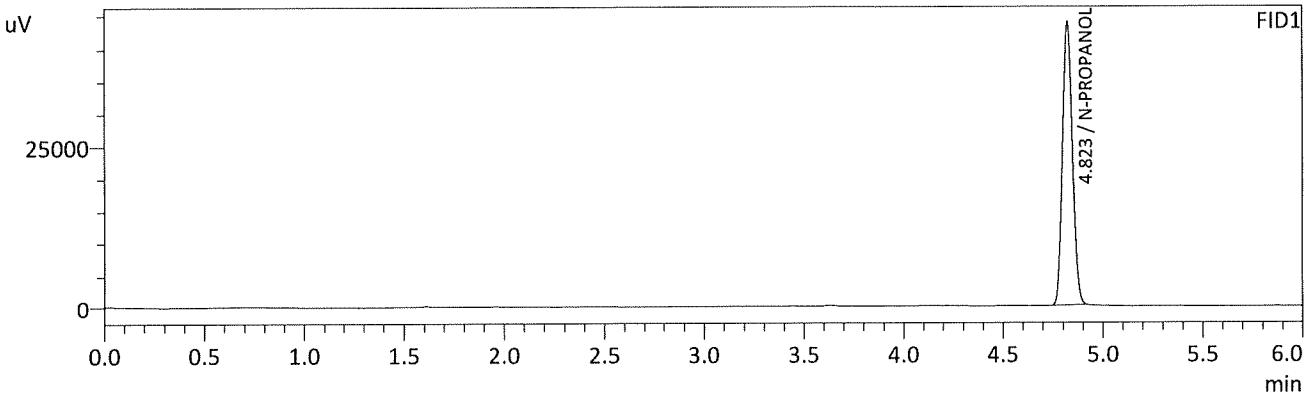
Name	Conc.	Unit	Area	Height
METHANOL	0.0000	g/100cc	10320	5037
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0997	g/100cc	18691	8038
ISOPROPYL ALCOHOL	0.0000	g/100cc	27899	9996
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	92085	26280
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	0.0000	g/100cc	10244	5424
ETHANOL	0.0992	g/100cc	18621	9258
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	0.0000	g/100cc	29135	13617
N-PROPANOL	0.0000	g/100cc	95883	36275
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

RC

Sample Name : INT STD BLK 2  
 Vial # : 8  
 Data Filename : INT STD BLK 2\_4212021\_008.gcd  
 Method Filename : ALCOHOL.gcm  
 Batch Filename : 4-21-21 RC BATCH.gcb  
 Date Acquired : 4/21/2021 5:55:30 PM  
 Date Processed : 4/22/2021 8:40:50 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	153138	43757
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	160381	60932
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

*RC*

**VOLATILES DETERMINATION CASEFILE WORKSHEET**

Laboratory No.: QC1-1

Analysis Date(s): 4/21/21

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0744	0.0749	0.0005	0.0746	0.0005	0.0748
(g/100cc)	0.0748	0.0754	0.0006	0.0751		

**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
<b>0.074</b>	<b>0.070</b>	<b>0.078</b>	<b>0.004</b>

	Reported Result	
	<b>0.074</b>	

*Calibration and control data are stored centrally.*



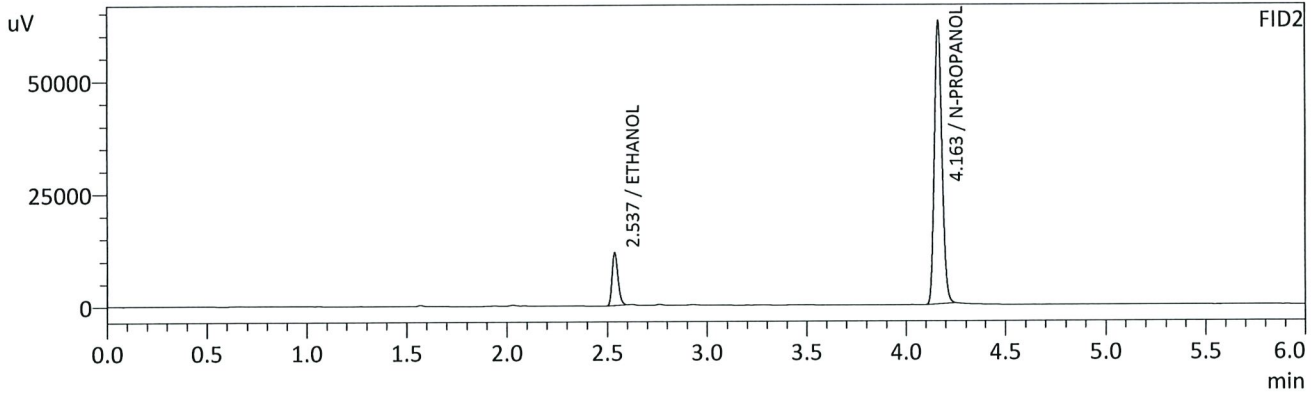
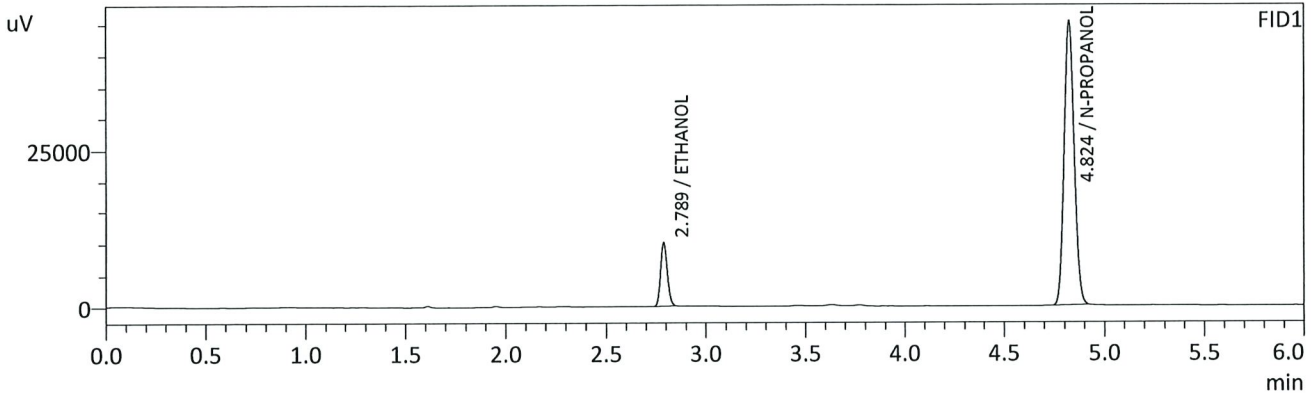
Revision: 3

Issue Date: 12/28/2020

Issuing Authority: Quality Manager



Sample Name : QC-1-1-A  
 Vial # : 9  
 Data Filename : QC-1-1-A\_4212021\_009.gcd  
 Method Filename : ALCOHOL.gcm  
 Batch Filename : 4-21-21 RC BATCH.gcb  
 Date Acquired : 4/21/2021 6:04:12 PM  
 Date Processed : 4/22/2021 8:40:51 AM



FID1

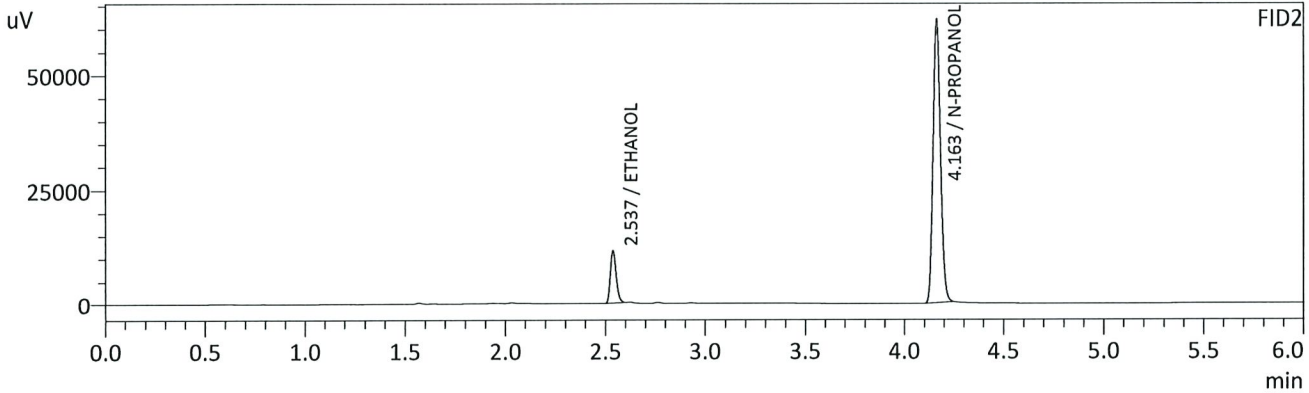
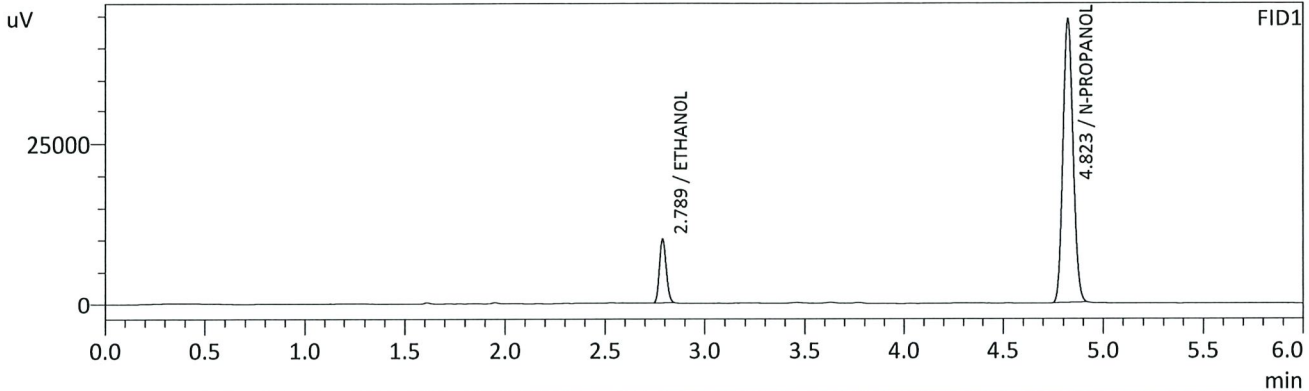
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0744	g/100cc	23729	10092
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	158433	45248
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0749	g/100cc	23692	11747
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	166058	62370
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

RC

Sample Name : QC-1-1-B  
 Vial # : 10  
 Data Filename : QC-1-1-B\_4212021\_010.gcd  
 Method Filename : ALCOHOL.gcm  
 Batch Filename : 4-21-21 RC BATCH.gcb  
 Date Acquired : 4/21/2021 6:13:03 PM  
 Date Processed : 4/22/2021 8:40:52 AM



FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0748	g/100cc	23398	9954
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	155288	44270
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0754	g/100cc	23359	11577
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	162598	61234
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

RC

**VOLATILES DETERMINATION CASEFILE WORKSHEET**

Laboratory No.: 0.080 QA

Analysis Date(s): 4/21/21

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0814	0.0816	0.0002	0.0815	0.0008	0.0811
(g/100cc)	0.0803	0.0811	0.0008	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
0.081	0.076	0.086	0.005

	Reported Result	
	0.081	

*Calibration and control data are stored centrally.*

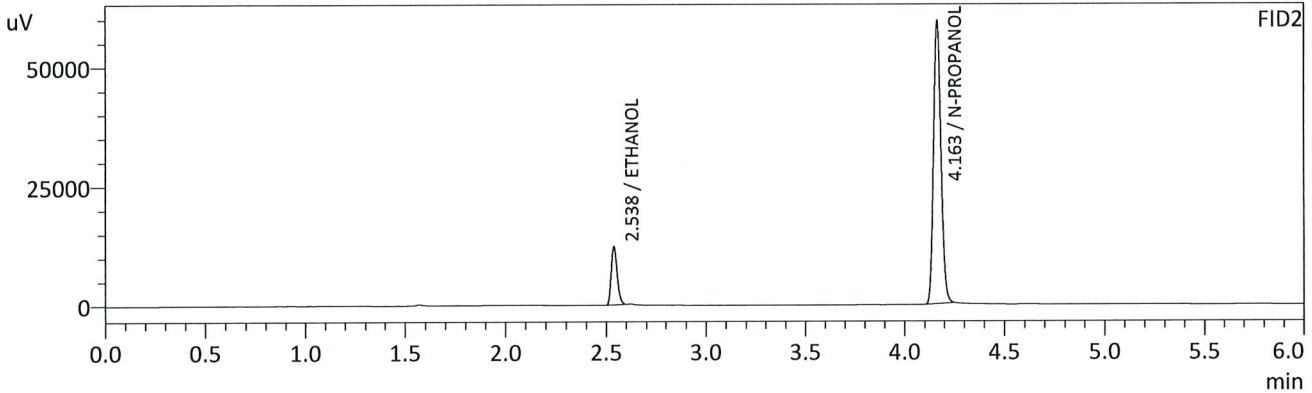
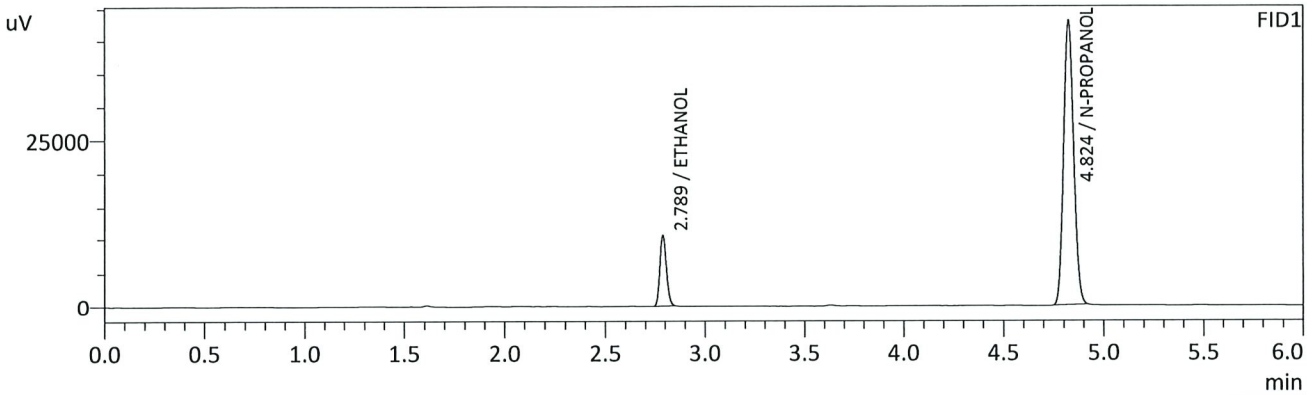


Revision: 3

Issue Date: 12/28/2020

Issuing Authority: Quality Manager

Sample Name : 0.08 QA - A  
 Vial # : 11  
 Data Filename : 0.08 QA - A\_4212021\_011.gcd  
 Method Filename : ALCOHOL.gcm  
 Batch Filename : 4-21-21 RC BATCH.gcb  
 Date Acquired : 4/21/2021 6:22:04 PM  
 Date Processed : 4/22/2021 8:40:53 AM



FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0814	g/100cc	24702	10503
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	150155	42724
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

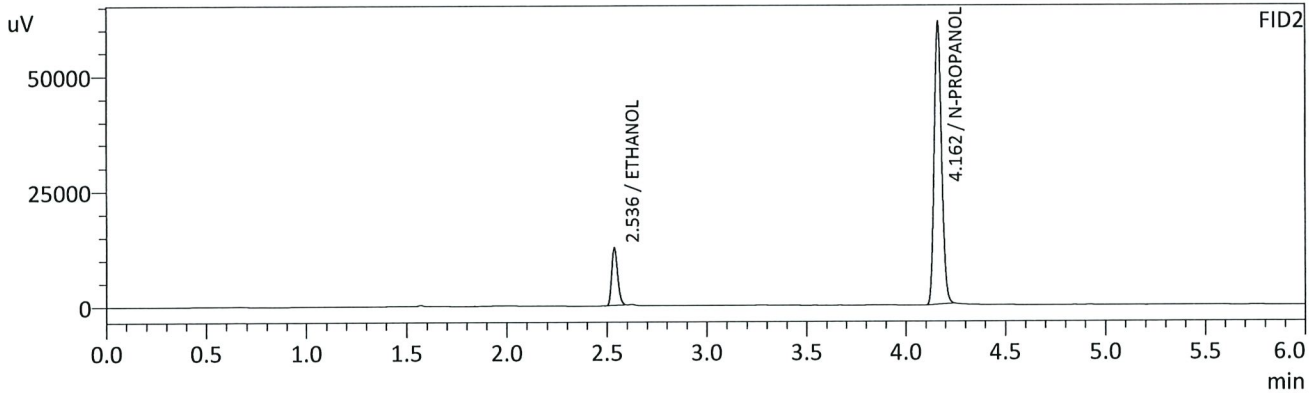
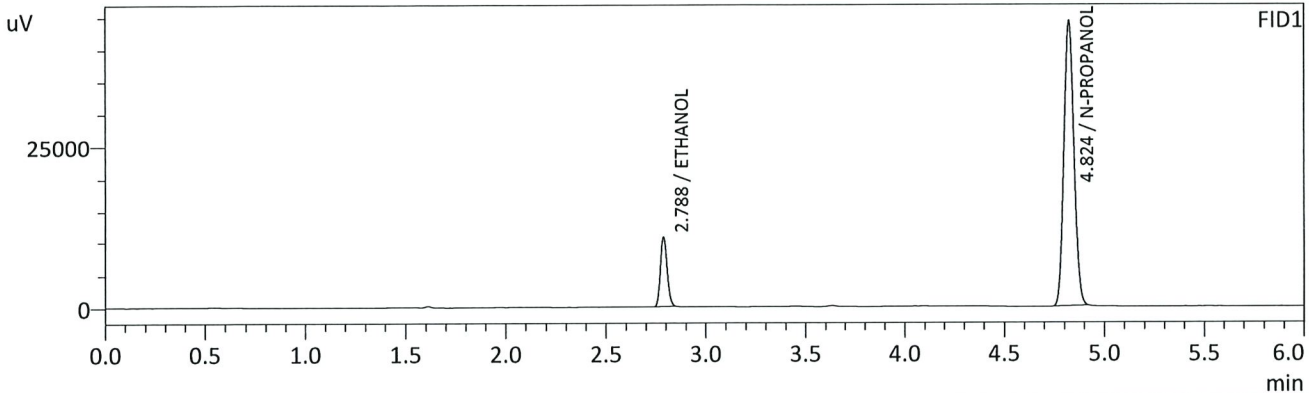
FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0816	g/100cc	24607	12166
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	156803	58929
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

*Handwritten signature/initials in blue ink.*



Sample Name : 0.08 QA - B  
 Vial # : 12  
 Data Filename : 0.08 QA - B\_4212021\_012.gcd  
 Method Filename : ALCOHOL.gcm  
 Batch Filename : 4-21-21 RC BATCH.gcb  
 Date Acquired : 4/21/2021 6:31:09 PM  
 Date Processed : 4/22/2021 8:40:54 AM



FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0803	g/100cc	25102	10676
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	154715	44187
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0811	g/100cc	25225	12489
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	161864	61182
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

*HC*

**VOLATILES DETERMINATION CASEFILE WORKSHEET**

Laboratory No.: QC2-1

Analysis Date(s): 4/21/21

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.2111	0.2098	0.0013	0.2104	0.0014	0.2097
(g/100cc)	0.2096	0.2085	0.0011	0.2090		

**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.*

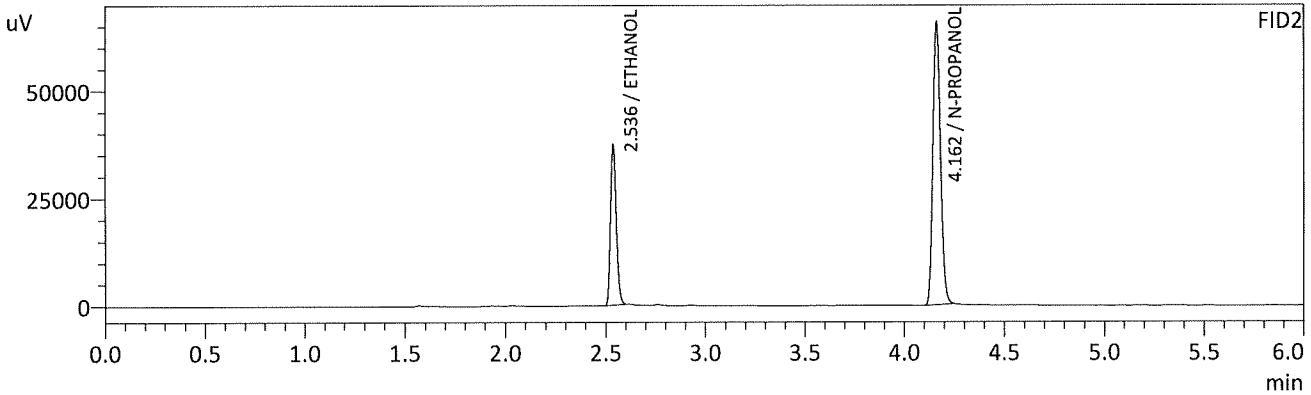
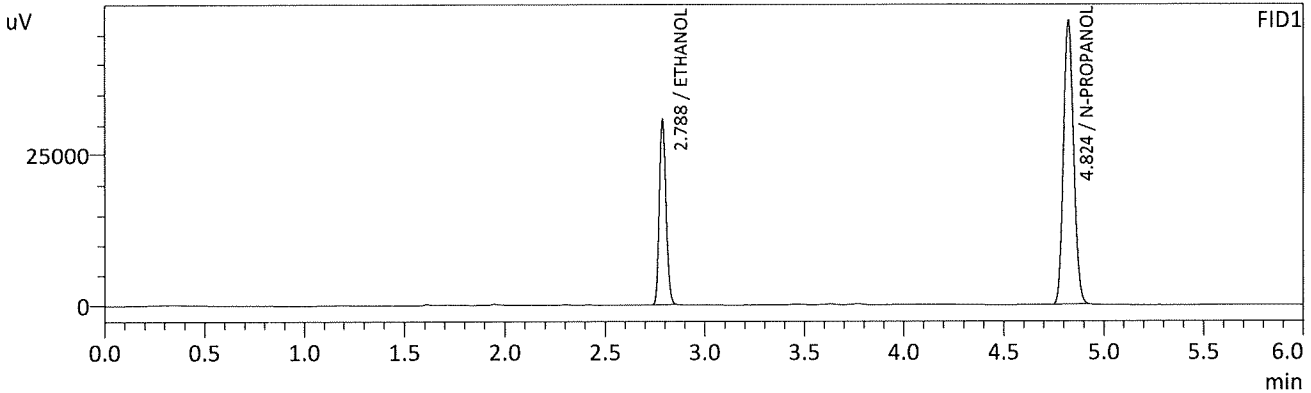


Revision: 3

Issue Date: 12/28/2020

Issuing Authority: Quality Manager

Sample Name : QC-2-1-A  
 Vial # : 31  
 Data Filename : QC-2-1-A\_4212021\_031.gcd  
 Method Filename : ALCOHOL.gcm  
 Batch Filename : 4-21-21 RC BATCH.gcb  
 Date Acquired : 4/21/2021 9:18:35 PM  
 Date Processed : 4/22/2021 8:41:17 AM



FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.2111	g/100cc	72272	30720
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	165449	47236
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

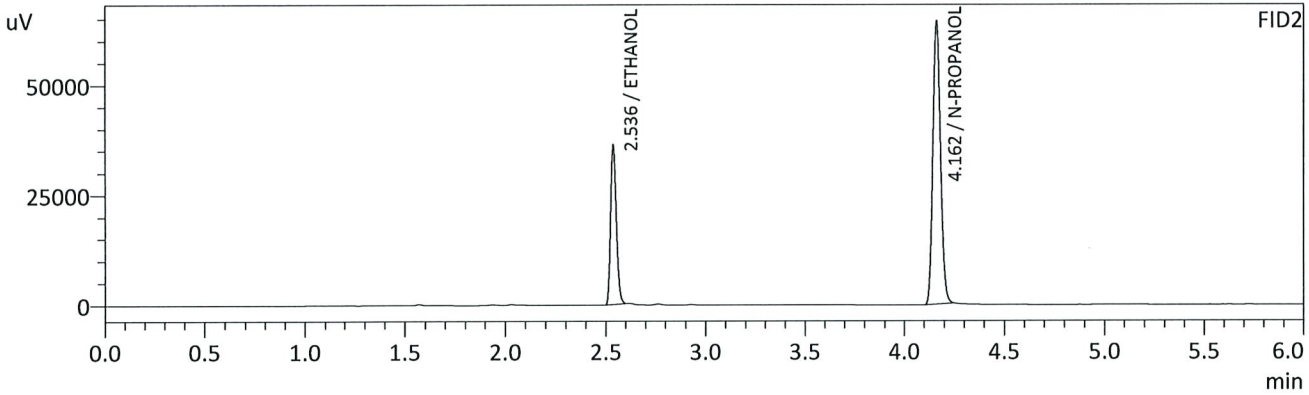
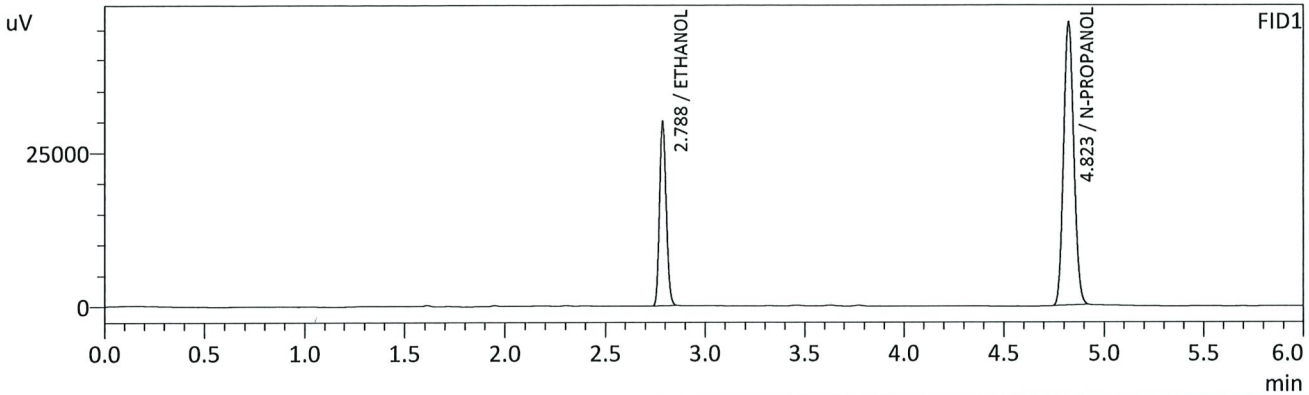
FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.2098	g/100cc	74369	37258
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	173458	65423
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

*AC*



Sample Name : QC-2-1-B  
 Vial # : 32  
 Data Filename : QC-2-1-B\_4212021\_032.gcd  
 Method Filename : ALCOHOL.gcm  
 Batch Filename : 4-21-21 RC BATCH.gcb  
 Date Acquired : 4/21/2021 9:27:32 PM  
 Date Processed : 4/22/2021 8:41:18 AM



FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.2096	g/100cc	70098	29816
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	161630	46095
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.2085	g/100cc	72174	36220
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	169443	63992
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

*RC*

**VOLATILES DETERMINATION CASEFILE WORKSHEET**

Laboratory No.: QC1-2

Analysis Date(s): 4/21/21

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0780	0.0781	0.0001	0.0780	0.0001	0.0780
(g/100cc)	0.0779	0.0780	0.0001	0.0779		

**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
0.078	0.074	0.082	0.004

Reported Result
0.078

*Calibration and control data are stored centrally.*

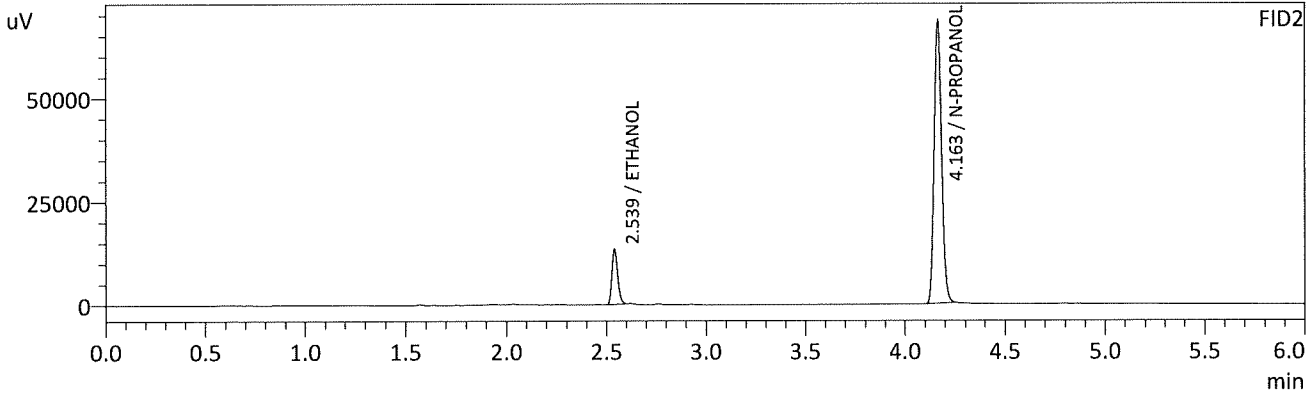
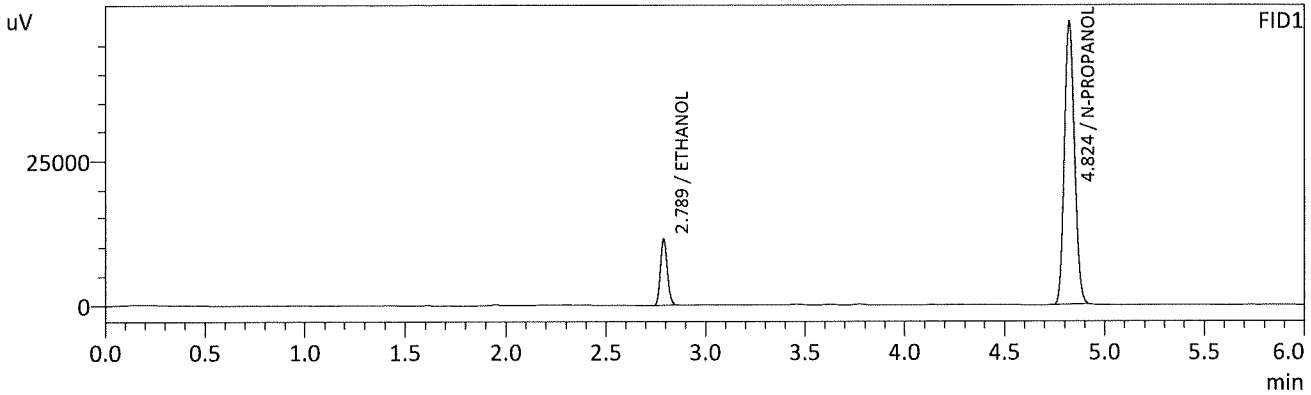


Revision: 3

Issue Date: 12/28/2020

Issuing Authority: Quality Manager

Sample Name : QC1-2-A  
 Vial # : 53  
 Data Filename : QC1-2-A\_4212021\_053.gcd  
 Method Filename : ALCOHOL.gcm  
 Batch Filename : 4-21-21 RC BATCH.gcb  
 Date Acquired : 4/22/2021 12:34:16 AM  
 Date Processed : 4/22/2021 8:41:43 AM



FID1

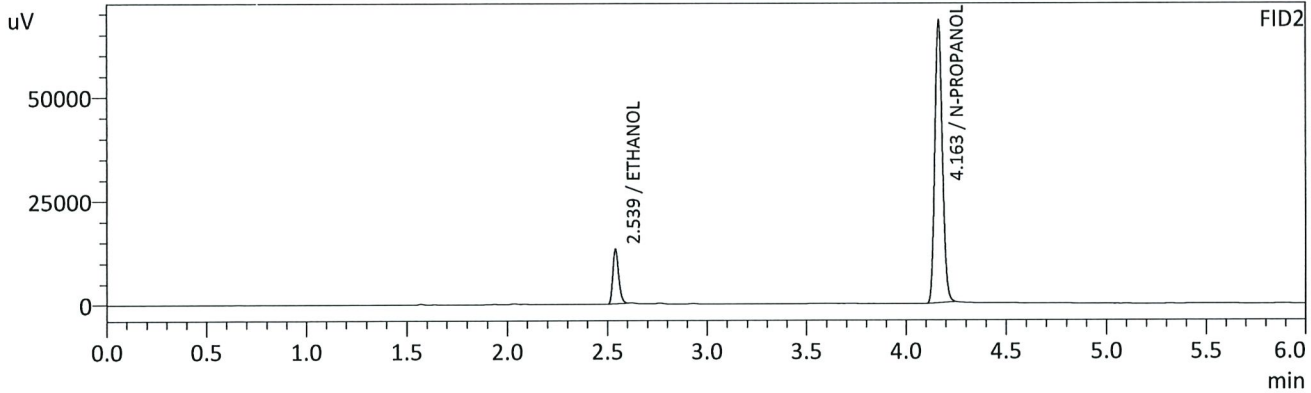
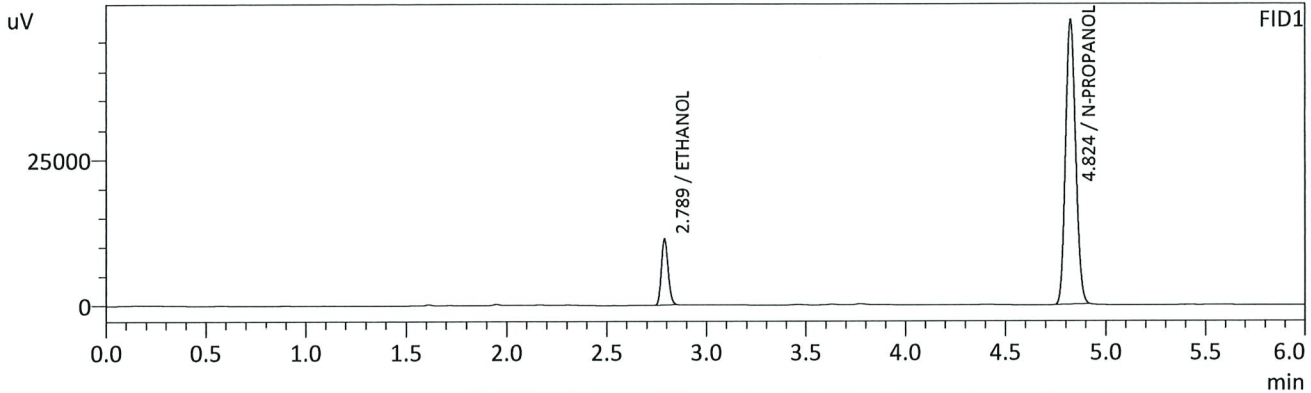
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0780	g/100cc	26955	11414
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	171238	49016
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0781	g/100cc	26839	13157
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	179611	67765
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

RC

Sample Name : QC1-2-B  
 Vial # : 54  
 Data Filename : QC1-2-B\_4212021\_054.gcd  
 Method Filename : ALCOHOL.gcm  
 Batch Filename : 4-21-21 RC BATCH.gcb  
 Date Acquired : 4/22/2021 12:43:03 AM  
 Date Processed : 4/22/2021 8:41:44 AM



FID1

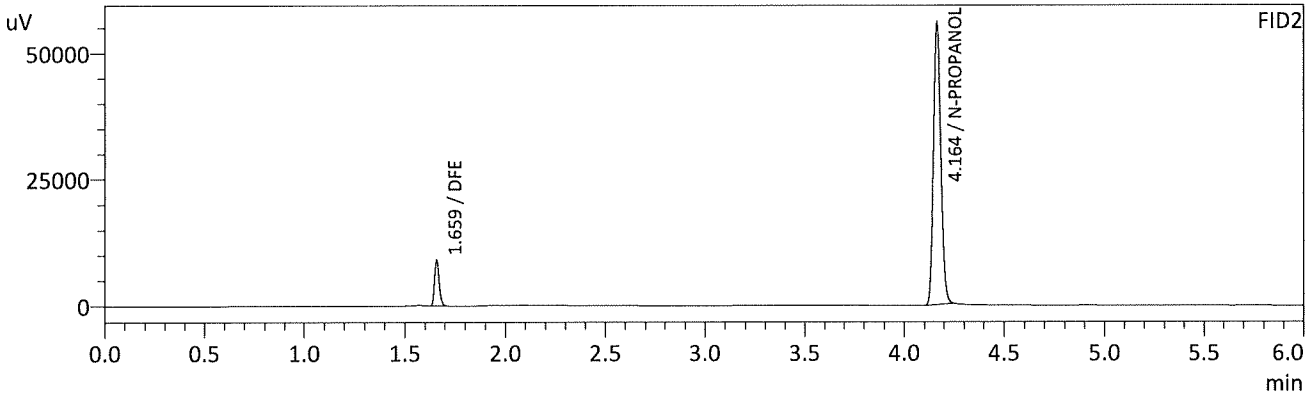
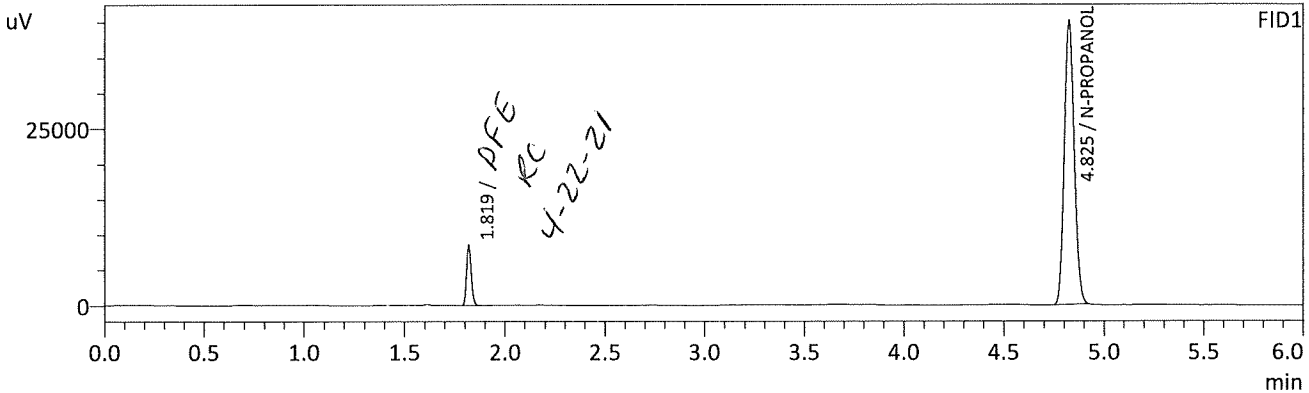
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0779	g/100cc	26710	11329
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	170075	48507
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0780	g/100cc	26683	13060
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	178656	67553
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

*RC*

Sample Name : DFE  
 Vial # : 55  
 Data Filename : DFE\_4212021\_055.gcd  
 Method Filename : ALCOHOL.gcm  
 Batch Filename : 4-21-21 RC BATCH.gcb  
 Date Acquired : 4/22/2021 12:52:00 AM  
 Date Processed : 4/22/2021 8:41:45 AM



FID1

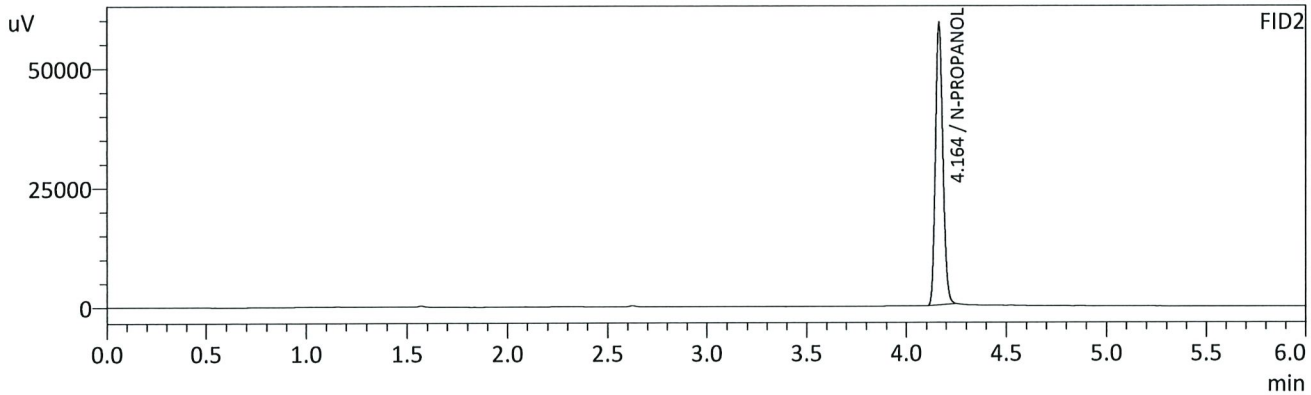
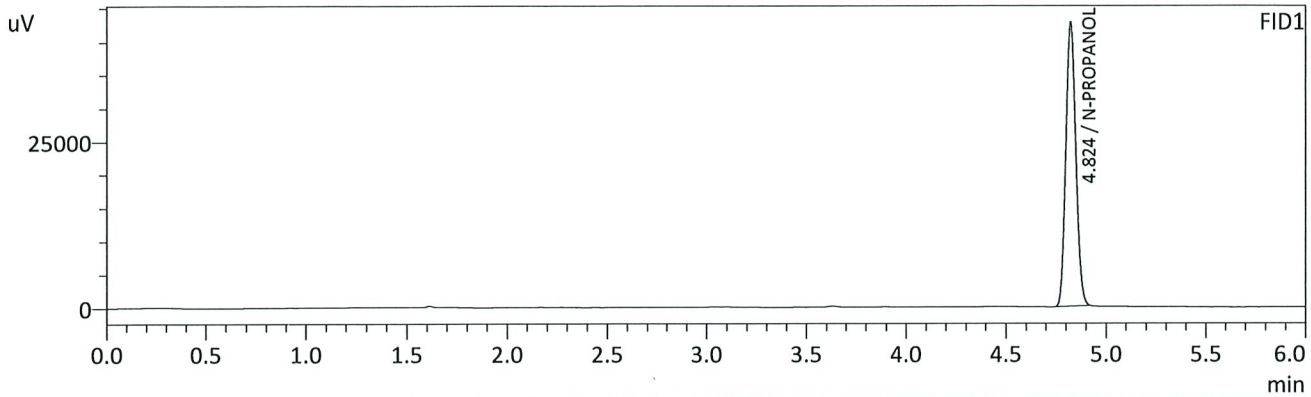
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	139659	39988
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

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	146217	55742
DFE	0.0000	g/100cc	14433	9028
TFE	--	g/100cc	--	--

RC

Sample Name : INT STD BLK 3  
 Vial # : 56  
 Data Filename : INT STD BLK 3\_4212021\_056.gcd  
 Method Filename : ALCOHOL.gcm  
 Batch Filename : 4-21-21 RC BATCH.gcb  
 Date Acquired : 4/22/2021 1:00:55 AM  
 Date Processed : 4/22/2021 8:41:46 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	148502	42605
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	155196	58886
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

*RC*



# 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  
 Copyright (C) 2008-2019 Shimadzu Corporation. All rights reserved.

Vial#	Sample Name	Sample Type	Method File	Data File	Level#
1	0.050	1:Standard:(I)	ALCOHOL.gcm	0.050_4142021_001.gcd	1
2	0.100	1:Standard:(R)	ALCOHOL.gcm	0.100_4142021_002.gcd	2
3	0.200	1:Standard:(R)	ALCOHOL.gcm	0.200_4142021_003.gcd	3
4	0.300	1:Standard:(R)	ALCOHOL.gcm	0.300_4142021_004.gcd	4
5	0.500	1:Standard:(R)	ALCOHOL.gcm	0.500_4142021_005.gcd	5
6	INT STD BLK 1	0:Unknown	ALCOHOL.gcm	INT STD BLK 1_4142021_006.gcd	0
7	MULTI-COMP MIX	0:Unknown	ALCOHOL.gcm	MULTI-COMP MIX_4142021_007.gcd	1
8	INT STD BLK 2	0:Unknown	ALCOHOL.gcm	INT STD BLK 2_4142021_008.gcd	0
9	QC-1-1-A	0:Unknown	ALCOHOL.gcm	QC-1-1-A_4142021_009.gcd	0
10	QC-1-1-B	0:Unknown	ALCOHOL.gcm	QC-1-1-B_4142021_010.gcd	0
11	0.08 QA - A	0:Unknown	ALCOHOL.gcm	0.08 QA - A_4142021_011.gcd	0
12	0.08 QA - B	0:Unknown	ALCOHOL.gcm	0.08 QA - B_4142021_012.gcd	0
13	P2021-0524-1-A	0:Unknown	ALCOHOL.gcm	M2021-1131-2-A_4142021_013.gcd	0
14	P2021-0524-1-B	0:Unknown	ALCOHOL.gcm	M2021-1131-2-B_4142021_014.gcd	0
15	P2021-0528-1-A	0:Unknown	ALCOHOL.gcm	M2021-1347-1-A_4142021_015.gcd	0
16	P2021-0528-1-B	0:Unknown	ALCOHOL.gcm	M2021-1347-1-B_4142021_016.gcd	0
17	P2021-1033-1-A	0:Unknown	ALCOHOL.gcm	M2021-1363-1-A_4142021_017.gcd	0
18	P2021-1033-1-B	0:Unknown	ALCOHOL.gcm	M2021-1363-1-B_4142021_018.gcd	0
19	P2021-1034-1-A	0:Unknown	ALCOHOL.gcm	M2021-1364-1-A_4142021_019.gcd	0
20	P2021-1034-1-B	0:Unknown	ALCOHOL.gcm	M2021-1364-1-B_4142021_020.gcd	0
21	P2021-1035-1-A	0:Unknown	ALCOHOL.gcm	M2021-1365-1-A_4142021_021.gcd	0
22	P2021-1035-1-B	0:Unknown	ALCOHOL.gcm	M2021-1365-1-B_4142021_022.gcd	0
23	P2021-1042-1-A	0:Unknown	ALCOHOL.gcm	M2021-1366-1-A_4142021_023.gcd	0
24	P2021-1042-1-B	0:Unknown	ALCOHOL.gcm	M2021-1366-1-B_4142021_024.gcd	0
25	P2021-1057-1-A	0:Unknown	ALCOHOL.gcm	M2021-1367-1-A_4142021_025.gcd	0
26	P2021-1057-1-B	0:Unknown	ALCOHOL.gcm	M2021-1367-1-B_4142021_026.gcd	0
27	P2021-1084-1-A	0:Unknown	ALCOHOL.gcm	M2021-1374-1-A_4142021_027.gcd	0
28	P2021-1084-1-B	0:Unknown	ALCOHOL.gcm	M2021-1374-1-B_4142021_028.gcd	0
29	P2021-1093-1-A	0:Unknown	ALCOHOL.gcm	M2021-1398-1-A_4142021_029.gcd	0
30	P2021-1093-1-B	0:Unknown	ALCOHOL.gcm	M2021-1398-1-B_4142021_030.gcd	0
31	QC-2-1-A	0:Unknown	ALCOHOL.gcm	QC-2-1-A_4142021_031.gcd	0
32	QC-2-1-B	0:Unknown	ALCOHOL.gcm	QC-2-1-B_4142021_032.gcd	0
33	P2021-1099-1-A	0:Unknown	ALCOHOL.gcm	M2021-1444-3-A_4142021_033.gcd	0
34	P2021-1099-1-B	0:Unknown	ALCOHOL.gcm	M2021-1444-3-B_4142021_034.gcd	0
35	P2021-1101-1-A	0:Unknown	ALCOHOL.gcm	P2021-1027-1-A_4142021_035.gcd	0
36	P2021-1101-1-B	0:Unknown	ALCOHOL.gcm	P2021-1027-1-B_4142021_036.gcd	0
37	P2021-1104-1-A	0:Unknown	ALCOHOL.gcm	P2021-1028-1-A_4142021_037.gcd	0
38	P2021-1104-1-B	0:Unknown	ALCOHOL.gcm	P2021-1028-1-B_4142021_038.gcd	0
39	P2021-1105-1-A	0:Unknown	ALCOHOL.gcm	P2021-1030-1-A_4142021_039.gcd	0
40	P2021-1105-1-B	0:Unknown	ALCOHOL.gcm	P2021-1030-1-B_4142021_040.gcd	0
41	P2021-1128-1-A	0:Unknown	ALCOHOL.gcm	P2021-1088-1-A_4142021_041.gcd	0
42	P2021-1128-1-B	0:Unknown	ALCOHOL.gcm	P2021-1088-1-B_4142021_042.gcd	0
43	P2021-1170-1-A	0:Unknown	ALCOHOL.gcm	P2021-1089-1-A_4142021_043.gcd	0
44	P2021-1170-1-B	0:Unknown	ALCOHOL.gcm	P2021-1089-1-B_4142021_044.gcd	0
45	P2021-1172-1-A	0:Unknown	ALCOHOL.gcm	P2021-1091-1-A_4142021_045.gcd	0
46	P2021-1172-1-B	0:Unknown	ALCOHOL.gcm	P2021-1091-1-B_4142021_046.gcd	0
47	P2021-1201-2-A	0:Unknown	ALCOHOL.gcm	P2021-1095-1-A_4142021_047.gcd	0
48	P2021-1201-2-B	0:Unknown	ALCOHOL.gcm	P2021-1095-1-B_4142021_048.gcd	0
49	P2021-1211-1-A	0:Unknown	ALCOHOL.gcm	P2021-1096-1-A_4142021_049.gcd	0
50	P2021-1211-1-B	0:Unknown	ALCOHOL.gcm		0
51	M2021-1482-1-A	0:Unknown	ALCOHOL.gcm		0
52	M2021-1482-1-B	0:Unknown	ALCOHOL.gcm	P2021-1096-1-B_4142021_050.gcd	0



Vial#	Sample Name	Sample Type	Method File	Data File	Level#
53	QC1-2-A	0:Unknown	ALCOHOL.gcm	QC1-2-A_4142021_051.gcd	0
54	QC1-2-B	0:Unknown	ALCOHOL.gcm	QC1-2-B_4142021_052.gcd	0
55	DFE	0:Unknown	ALCOHOL.gcm		0
56	INT STD BLK 3	0:Unknown	ALCOHOL.gcm	INT STD BLK 3_4142021_053.gcd	0