




















15

8/1/2023

**Worklist: 6448**

<u>LAB_CASE</u>	<u>ITEM</u>	<u>ITEM_TYPE</u>	<u>DESCRIPTION</u>	
P2023-2139	1	BCK	Alcohol Analysis	
P2023-2140	1	BCK	Alcohol Analysis	
P2023-2143	1	BCK	Alcohol Analysis	
P2023-2146	1	BCK	Alcohol Analysis	
P2023-2152	1	BCK	Alcohol Analysis	
P2023-2153	1	BCK	Alcohol Analysis	
P2023-2164	1	BCK	Alcohol Analysis	
P2023-2186	1	BCK	Alcohol Analysis	
P2023-2187	1	BCK	Alcohol Analysis	
P2023-2189	1	BCK	Alcohol Analysis	
P2023-2223	1	BCK	Alcohol Analysis	
P2023-2224	1	BCK	Alcohol Analysis	
P2023-2225	1	BCK	Alcohol Analysis	
P2023-2226	1	BCK	Alcohol Analysis	
P2023-2227	1	BCK	Alcohol Analysis	
P2023-2228	1	BCK	Alcohol Analysis	
P2023-2229	1	BCK	Alcohol Analysis	
P2023-2231	1	BCK	Alcohol Analysis	
P2023-2232	1	BCK	Alcohol Analysis	

**REVIEWED**  
*By Jeremy Johnston at 12:17 pm, Aug 01, 2023*

## Quantitative Analysis for Ethanol &amp; 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): 07/28/2023

Calibration Date: (if different) 07/21/2023

Worklist #: 6448

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results	
Level 1	Jul-23	1907006	0.0764	0.0688-0.0840	0.0727 g/100cc	
					0.0796 g/100cc	
					g/100cc	
Level 2	Jul-23	1907007	0.2170	0.1953-0.2387	0.2095 g/100cc	
					g/100cc	
					g/100cc	
<b>Multi-Component mixture:</b>		<b>Exp:</b>	<b>10/31/2024</b>	<b>Lot #</b>	FN06041902	
<b>Curve Fit:</b>			<b>Column 1</b>	0.99998	<b>Column2</b>	0.99994

## Ethanol Calibration Reference Material

Calibrator level	Target Value	Acceptable Range	Column 1	Column 2	Precision	Mean
50	0.050	0.045 - 0.055	0.0505	0.0512	0.0007	0.0508
100	0.100	0.090 - 0.110	0.1002	0.1002	0	0.1002
200	0.200	0.180 - 0.220	0.1992	0.1986	0.0006	0.1989
300	0.300	0.270 - 0.330	0.2993	0.2987	0.0006	0.299
400	0.400	0.360 - 0.440			0	#DIV/0!
500	0.500	0.450 - 0.550	0.5005	0.5011	0.0006	0.5008

## Aqueous Controls

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

Revision: 5

Issue Date: 07/05/2022

Issuing Authority: Quality Manager

D

**Internal Standard Monitoring Worksheet**

<b>Worklist #:</b>	<b>6448</b>	<b>Run Date(s):</b>	<b>07/28/2023</b>
--------------------	-------------	---------------------	-------------------

Internal Standard Solution:	Prep Date: 5/5/2023	Exp Date: 11/5/2023
-----------------------------	---------------------	---------------------

Sample Name	Column 1 Value	Column 2 Value
0.080	155879	160730
0.080	155598	160595
QC1	157427	162251
QC1	157355	162277
QC1	164628	168476
QC1	163492	167209
QC1		
QC1		
QC2	156811	160375
QC2	158304	161911
QC2		
QC2		
QC2		
QC2		

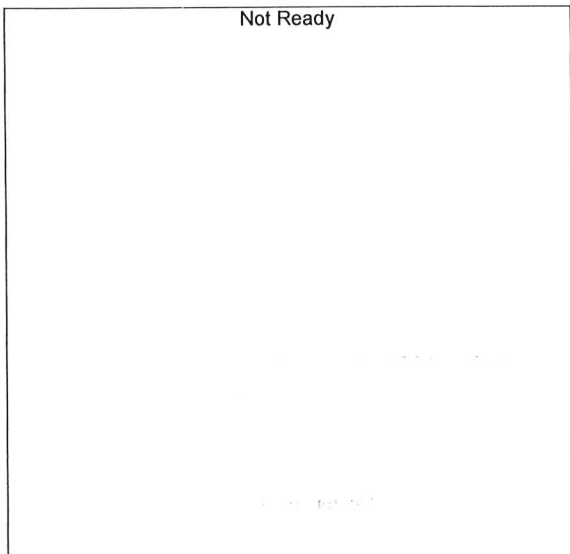
	Average	(-)20%	(+)20%
Column 1	158686.8	126949.4	190424.1
Column 2	162978.0	130382.4	195573.6

TS

# Calibration Table

Laboratory: Pocatello  
Instrument Name : G1KG333-Instrument1

<<Data File>>  
Method File :Default Project - ALCOHOL\_072123\_RC.gcm  
Batch File :Default Project - BATCH\_072823\_TS.gcb  
Date Acquired :7/28/2023 6:34:39 PM  
Date Created :7/28/2023 6:31:16 PM  
Date Modified :7/28/2023 6:40:40 PM



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

#	Conc.	Area	Std. Conc.	Data File Name
---	-------	------	------------	----------------

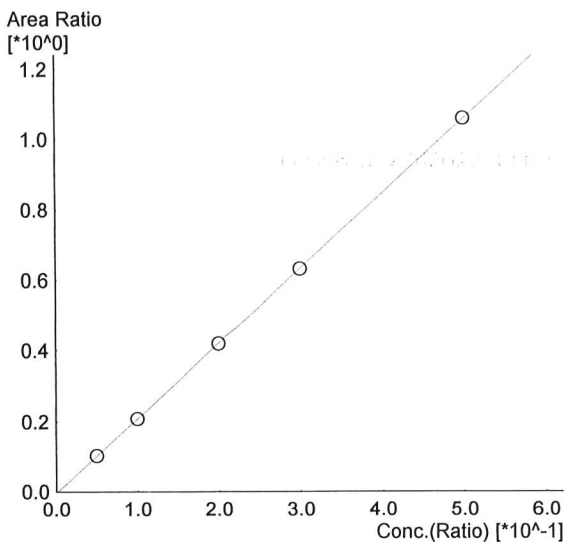


Name : ACETALDEHYDE  
Detector Name: FID1  
Function :  $f(x)=0*x+0$   
R^2 value= 0  
FitType: Linear  
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.	Data File Name
---	-------	------	------------	----------------

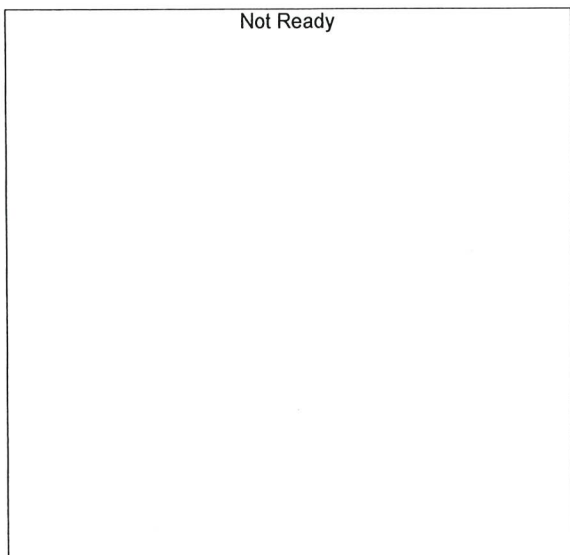


TS



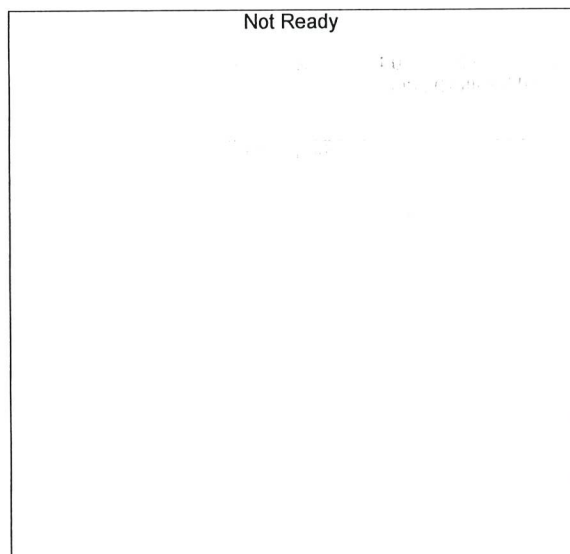
Name : ETHANOL  
 Detector Name: FID1  
 Function :  $f(x)=2.12525*x-0.00478613$   
 $R^2$  value= 0.9999858  
 FitType: Linear  
 ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.	Data File Name
1	0.050	15685	0.0505	0.050_7212023_001.gcd
2	0.100	32245	0.1002	0.100_7212023_002.gcd
3	0.200	65651	0.1992	0.200_7212023_003.gcd
4	0.300	99546	0.2993	0.300_7212023_004.gcd
5	0.500	167679	0.5005	0.500_7212023_005.gcd



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

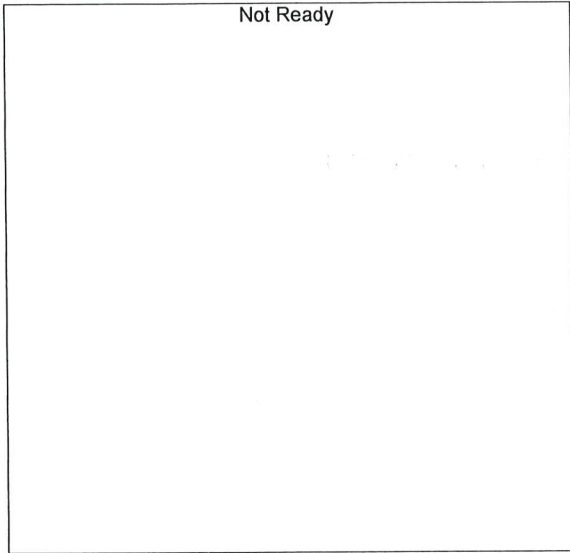
#	Conc.	Area	Std. Conc.	Data File Name
---	-------	------	------------	----------------



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

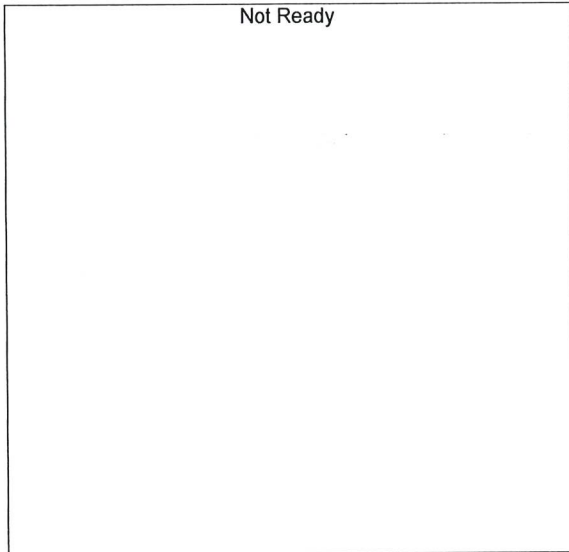
#	Conc.	Area	Std. Conc.	Data File Name
---	-------	------	------------	----------------

TS



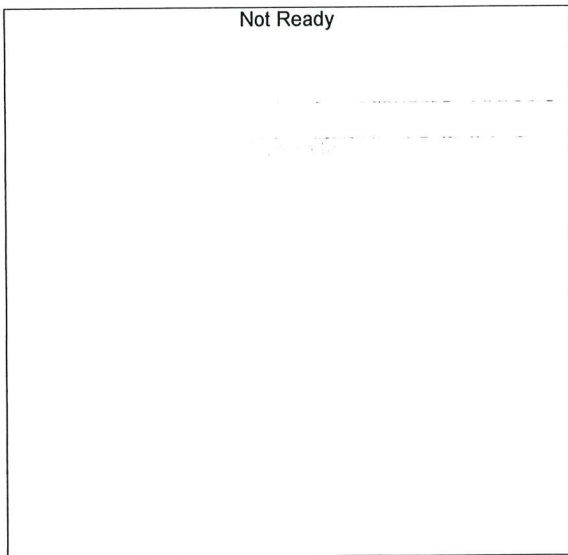
Name : DFE  
Detector Name: FID1  
Function :  $f(x)=0*x+0$   
R^2 value= 0  
FitType: Linear  
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.	Data File Name
---	-------	------	------------	----------------



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

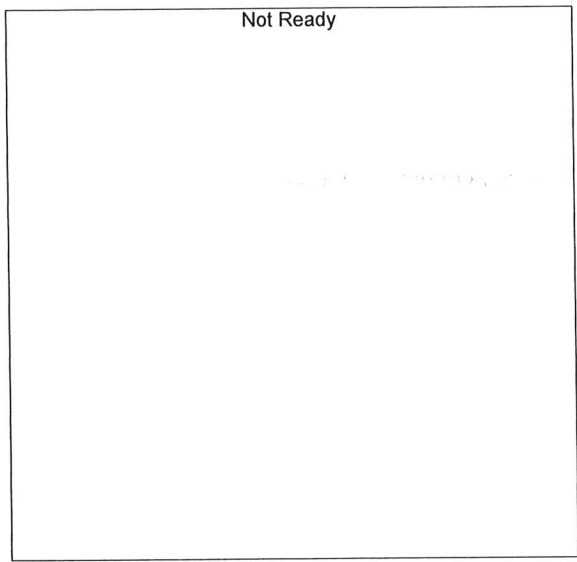
#	Conc.	Area	Std. Conc.	Data File Name
---	-------	------	------------	----------------



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

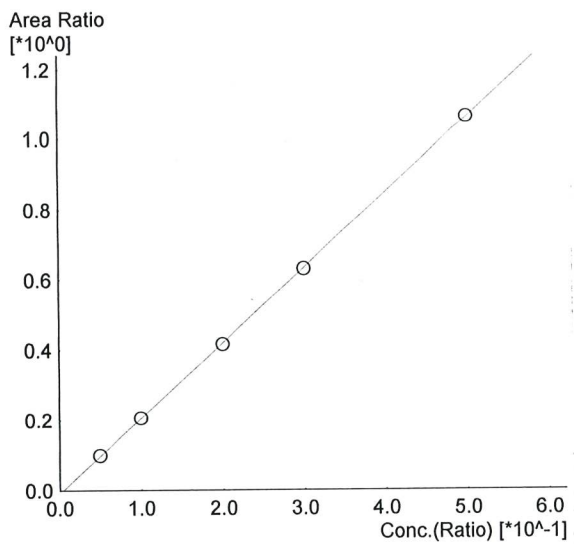
#	Conc.	Area	Std. Conc.	Data File Name
---	-------	------	------------	----------------

15



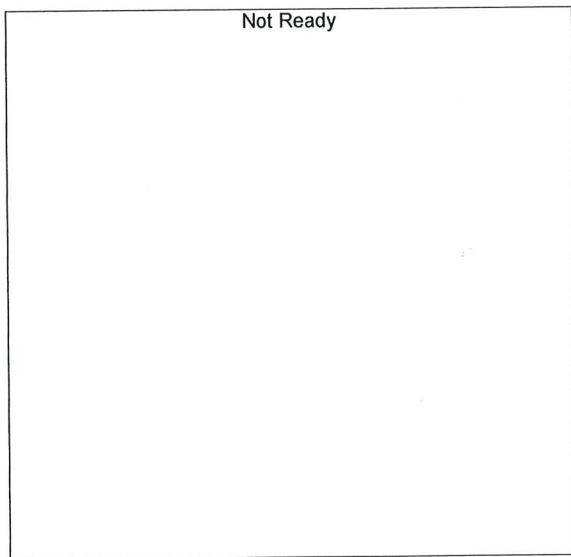
Name : METHANOL  
 Detector Name: FID2  
 Function :  $f(x)=0*x+0$   
 R<sup>2</sup> value= 0  
 FitType: Linear  
 ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.	Data File Name
---	-------	------	------------	----------------



Name : ETHANOL  
 Detector Name: FID2  
 Function :  $f(x)=2.14284*x-0.00986898$   
 R<sup>2</sup> value= 0.9999493  
 FitType: Linear  
 ZeroThrough: Not Through

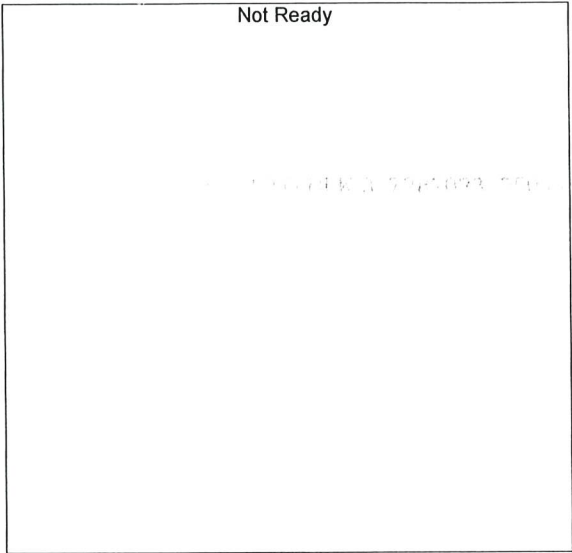
#	Conc.	Area	Std. Conc.	Data File Name
1	0.050	15820	0.0512	0.050_7212023_001.gcd
2	0.100	32850	0.1002	0.100_7212023_002.gcd
3	0.200	67391	0.1986	0.200_7212023_003.gcd
4	0.300	102615	0.2987	0.300_7212023_004.gcd
5	0.500	173652	0.5011	0.500_7212023_005.gcd



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

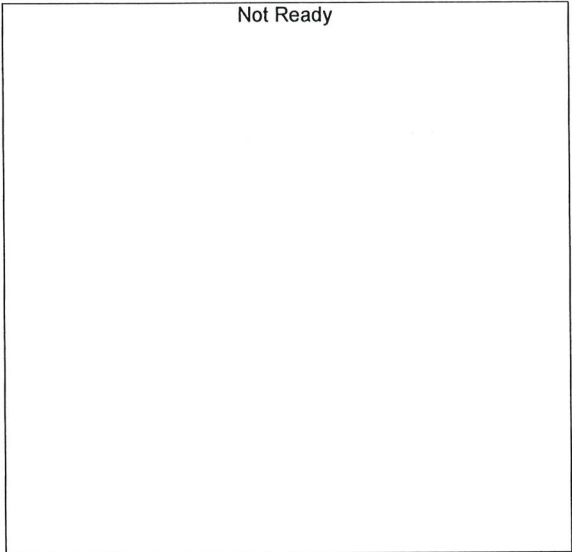
#	Conc.	Area	Std. Conc.	Data File Name
---	-------	------	------------	----------------

15



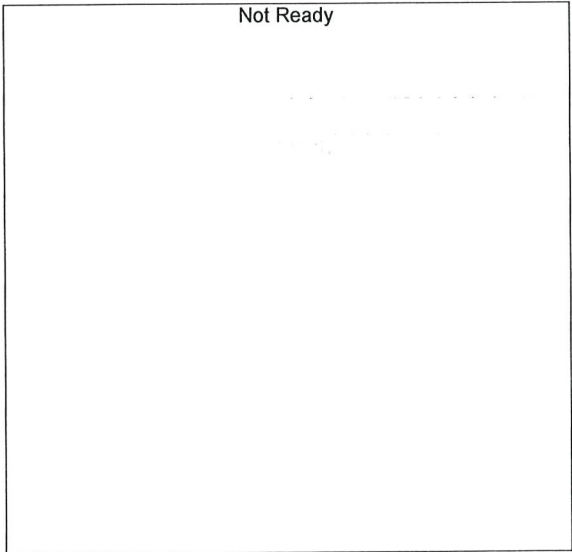
Name : ISOPROPYL ALCOHOL  
Detector Name: FID2  
Function :  $f(x)=0*x+0$   
R^2 value= 0  
FitType: Linear  
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.	Data File Name
---	-------	------	------------	----------------



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

#	Conc.	Area	Std. Conc.	Data File Name
---	-------	------	------------	----------------

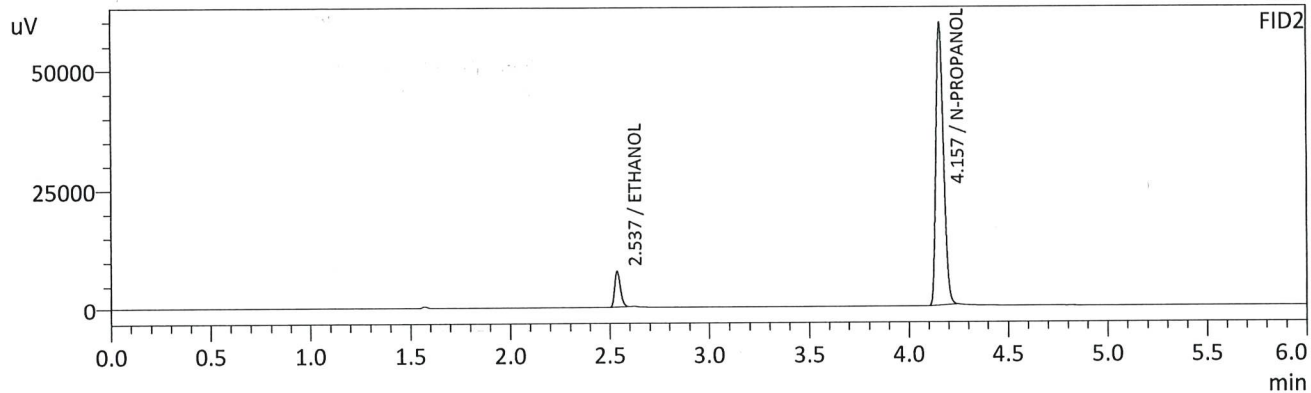
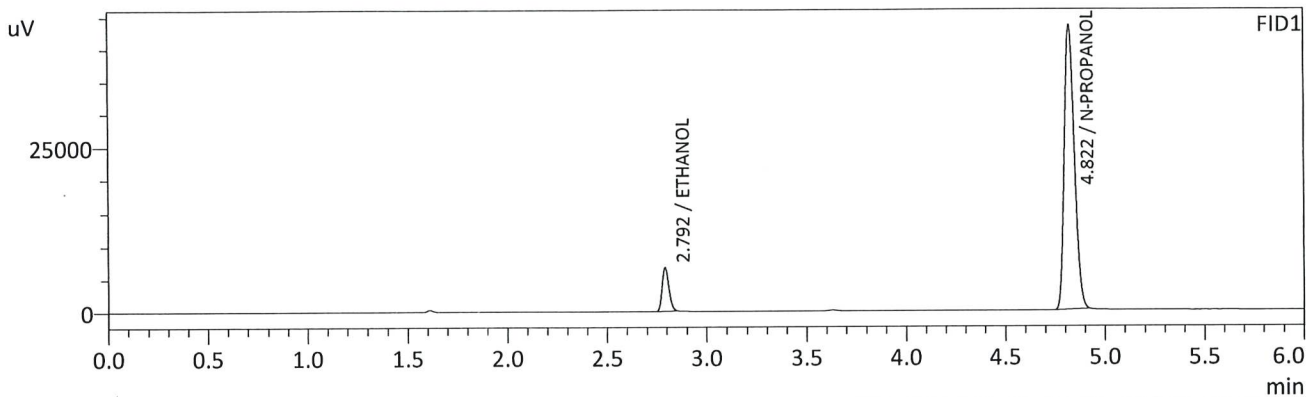


Name : TFE  
Detector Name: FID2  
Function :  $f(x)=0*x+0$   
R^2 value= 0  
FitType: Linear  
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.	Data File Name
---	-------	------	------------	----------------

TS

Sample Name : 0.050  
 Vial # : 1  
 Data Filename : 0.050\_7212023\_001.gcd  
 Method Filename : ALCOHOL\_072123\_RC.gcm  
 Batch Filename : BATCH\_072123\_RC.gcb  
 Date Acquired : 7/21/2023 10:49:12 AM  
 Date Processed : 8/1/2023 7:44:12 AM  
 Default Project - G1KG333-Instrument1 - ALCOHOL.gcm



FID1

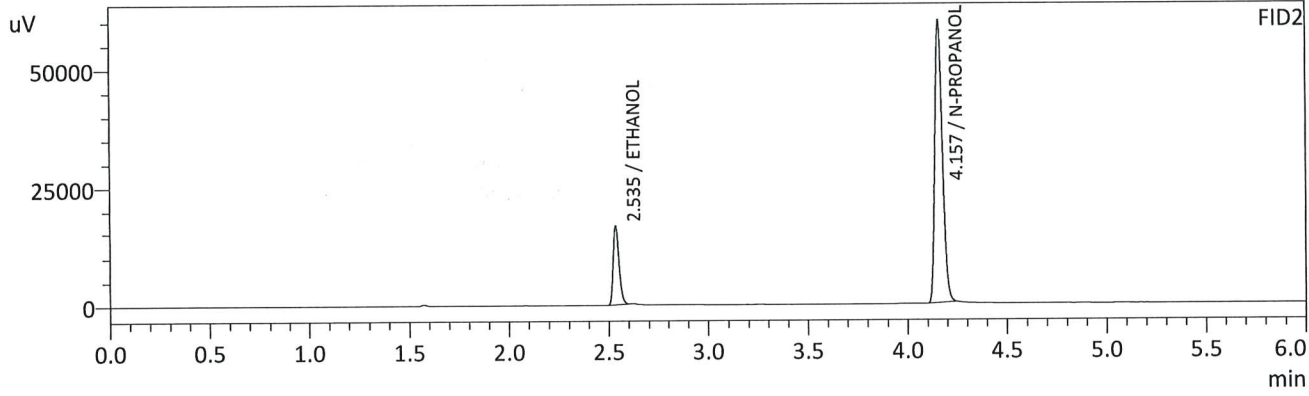
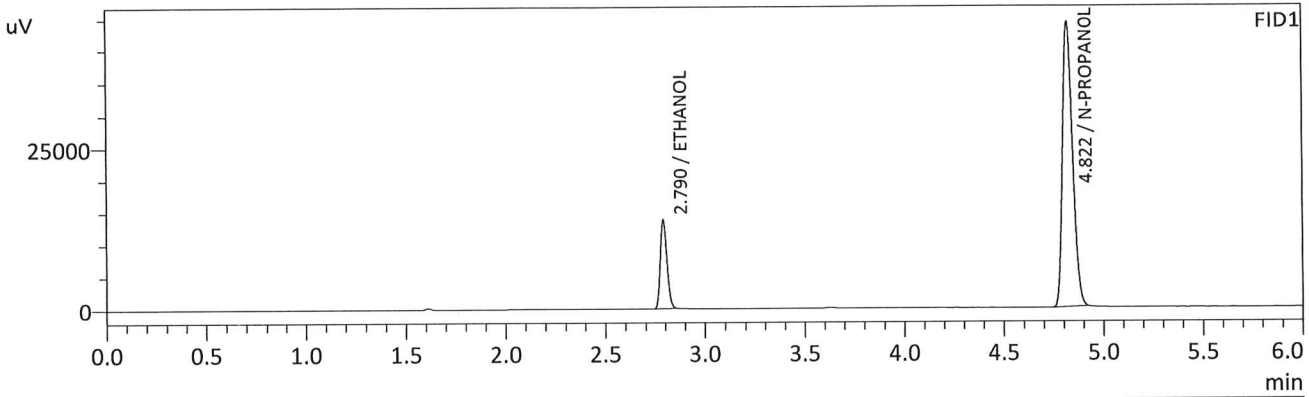
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0505	g/100cc	15685	6626
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	152712	43295
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0512	g/100cc	15820	7794
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	158287	59075
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

TS

Sample Name : 0.100  
 Vial # : 2  
 Data Filename : 0.100\_7212023\_002.gcd  
 Method Filename : ALCOHOL\_072123\_RC.gcm  
 Batch Filename : BATCH\_072123\_RC.gcb  
 Date Acquired : 7/21/2023 10:58:42 AM  
 Date Processed : 8/1/2023 7:44:19 AM  
 Default Project - G1KG333-Instrument1 - ALCOHOL.gcm



FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.1002	g/100cc	32245	13680
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	154802	43955
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

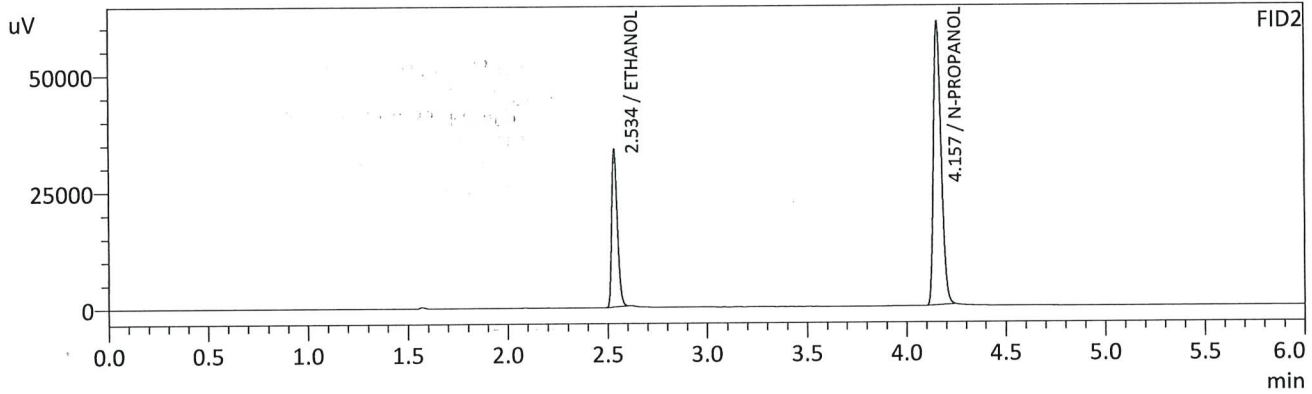
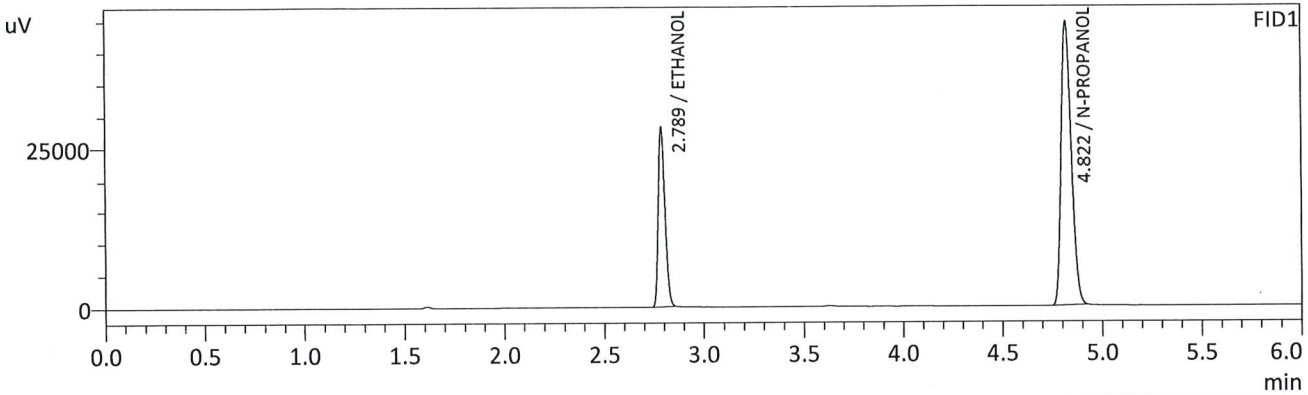
FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.1002	g/100cc	32850	16256
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	160237	59740
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--



TS

Sample Name : 0.200  
 Vial # : 3  
 Data Filename : 0.200\_7212023\_003.gcd  
 Method Filename : ALCOHOL\_072123\_RC.gcm  
 Batch Filename : BATCH\_072123\_RC.gcb  
 Date Acquired : 7/21/2023 11:08:03 AM  
 Date Processed : 8/1/2023 7:44:23 AM  
 Default Project - G1KG333-Instrument1 - ALCOHOL.gcm



FID1

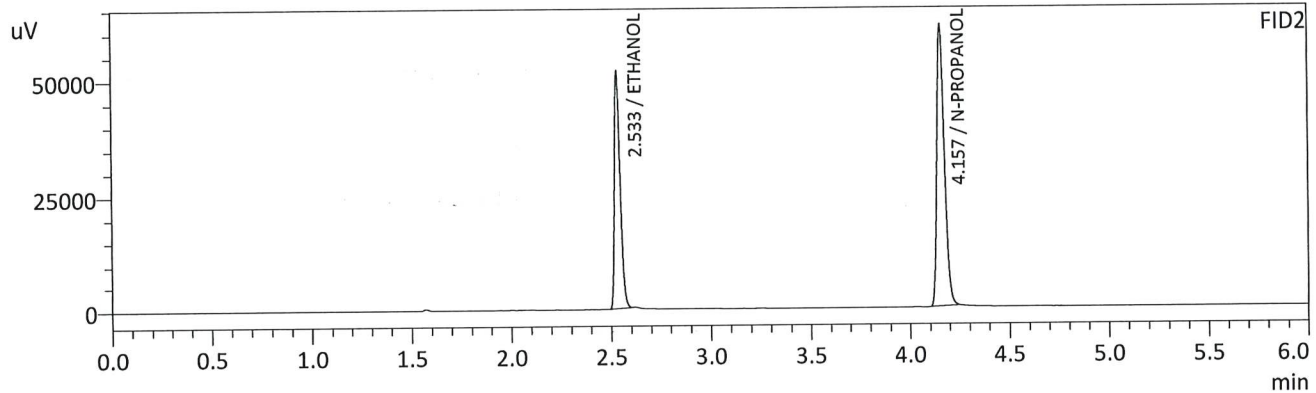
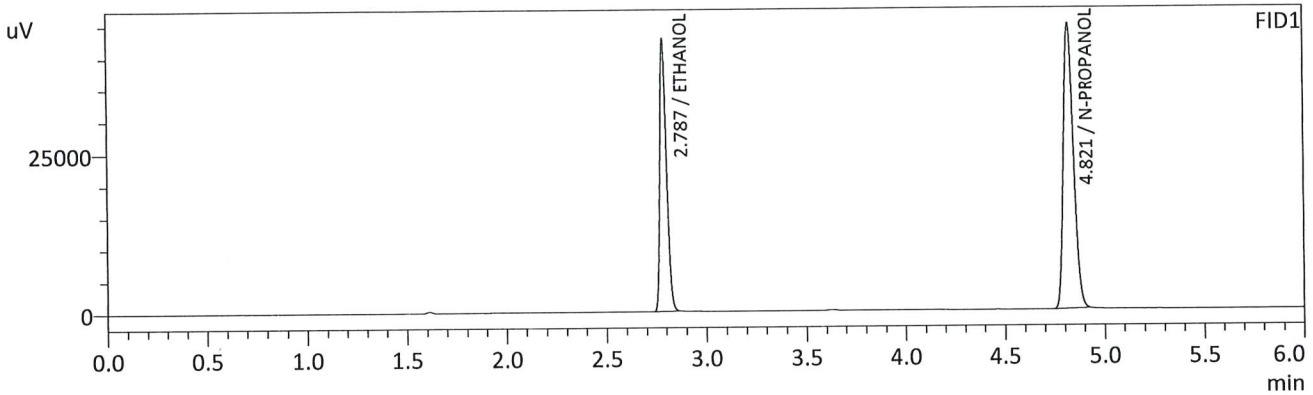
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.1992	g/100cc	65651	28054
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	156831	44458
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.1986	g/100cc	67391	33346
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	162099	60667
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

TS

Sample Name : 0.300  
 Vial # : 4  
 Data Filename : 0.300\_7212023\_004.gcd  
 Method Filename : ALCOHOL\_072123\_RC.gcm  
 Batch Filename : BATCH\_072123\_RC.gcb  
 Date Acquired : 7/21/2023 11:17:48 AM  
 Date Processed : 8/1/2023 7:44:27 AM  
 Default Project - G1KG333-Instrument1 - ALCOHOL.gcm



FID1

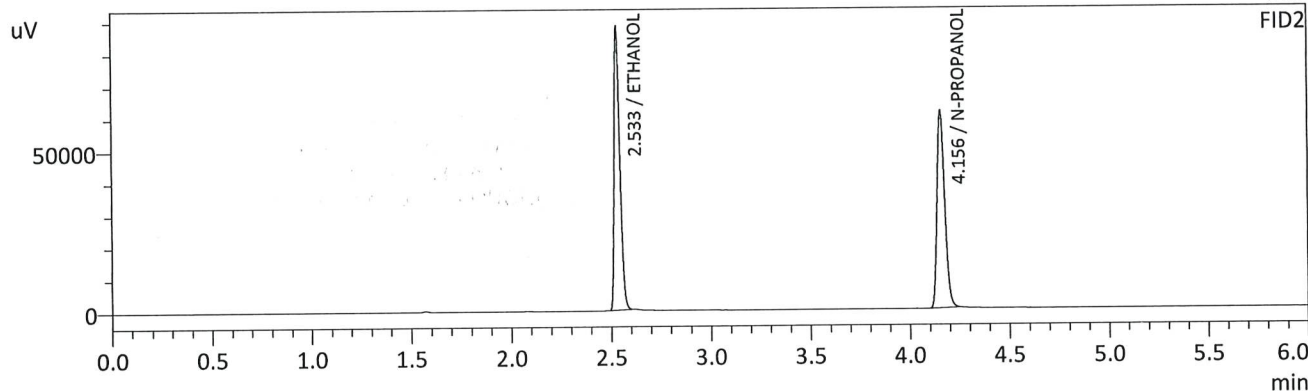
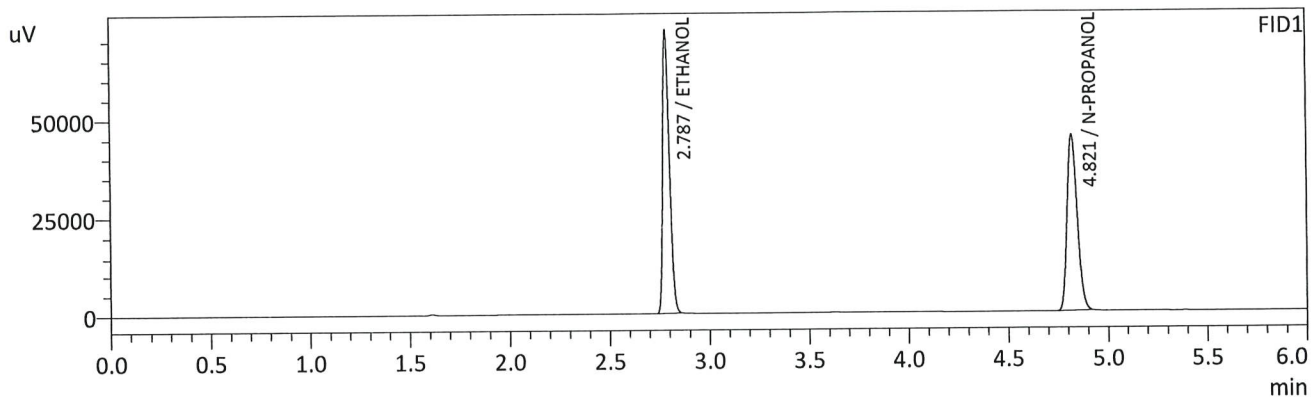
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.2993	g/100cc	99546	42469
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	157666	44553
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.2987	g/100cc	102615	51488
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	162820	61243
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

15

Sample Name : 0.500  
 Vial # : 5  
 Data Filename : 0.500\_7212023\_005.gcd  
 Method Filename : ALCOHOL\_072123\_RC.gcm  
 Batch Filename : BATCH\_072123\_RC.gcb  
 Date Acquired : 7/21/2023 11:27:19 AM  
 Date Processed : 8/1/2023 7:44:30 AM  
 Default Project - G1KG333-Instrument1 - ALCOHOL.gcm



FID1

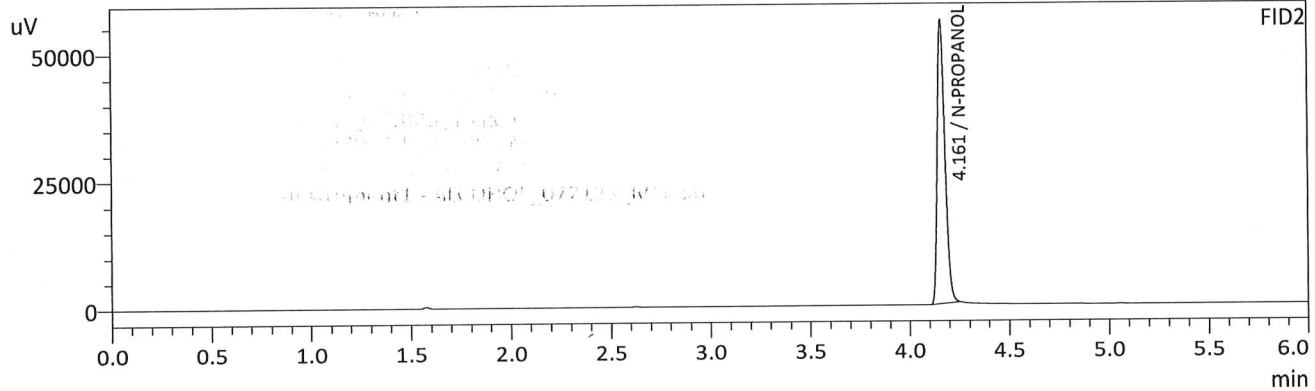
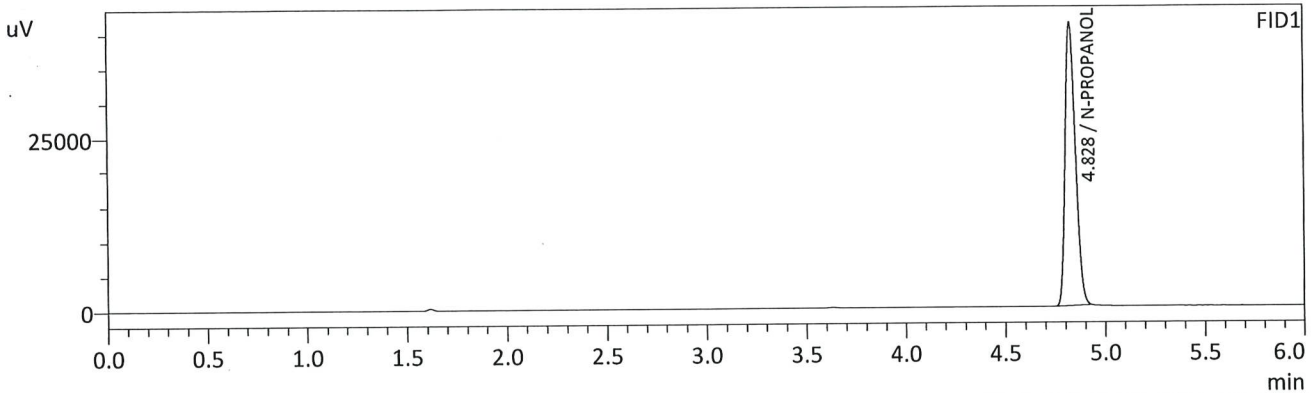
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.5005	g/100cc	167679	71522
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	158321	44818
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.5011	g/100cc	173652	87900
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	163206	61333
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

15

Sample Name : INT STD BLK 1  
 Vial # : 1  
 Data Filename : INT STD BLK 1\_7282023\_001.gcd  
 Method Filename : ALCOHOL\_072123\_RC.gcm  
 Batch Filename : BATCH\_072823\_TS.gcb  
 Date Acquired : 7/28/2023 10:48:09 AM  
 Date Processed : 7/28/2023 10:54:11 AM  
 Default Project - G1KG333-Instrument1 - ALCOHOL\_072123\_RC.gcm



FID1

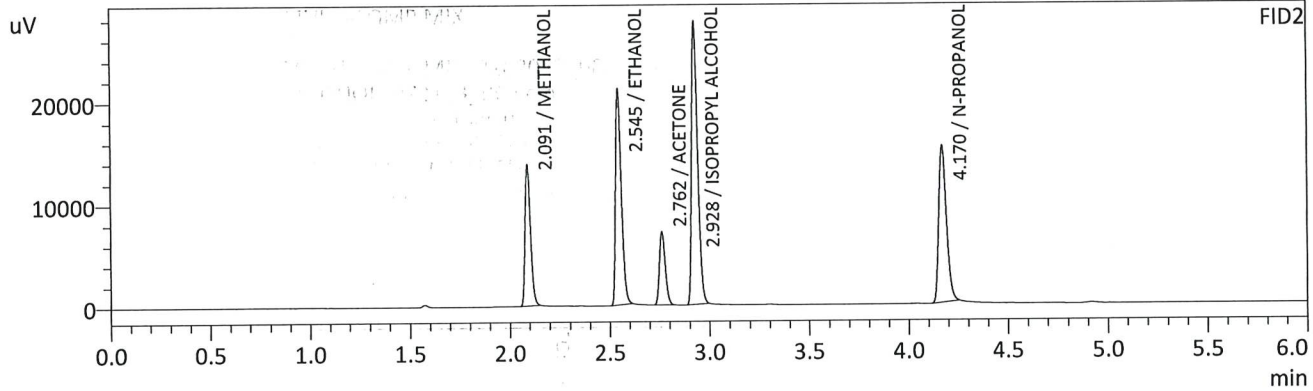
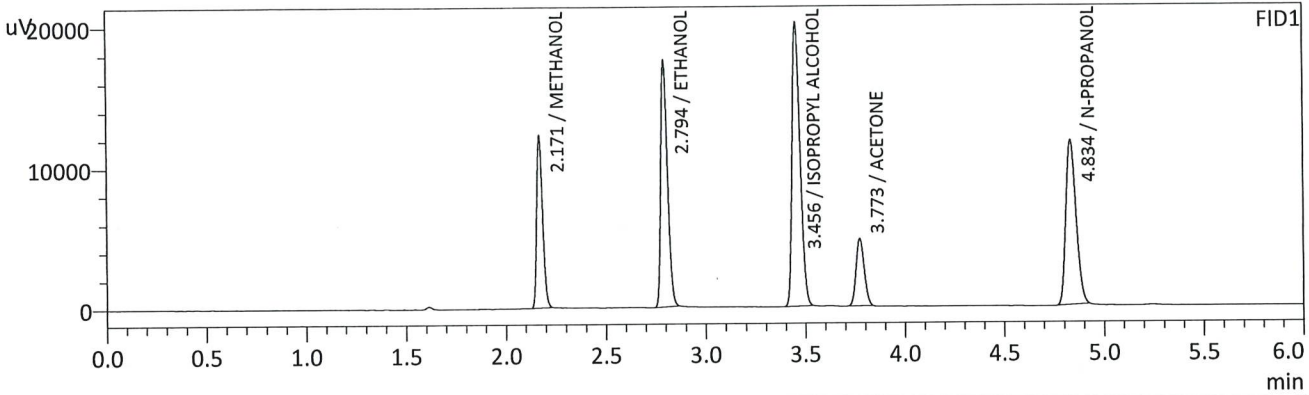
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	144817	41061
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

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	149203	55701
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

TS

Sample Name : MULTI-COMP MIX  
 Vial # : 2  
 Data Filename : MULTI-COMP MIX\_7282023\_002.gcd  
 Method Filename : ALCOHOL\_072123\_RC.gcm  
 Batch Filename : BATCH\_072823\_TS.gcb  
 Date Acquired : 7/28/2023 10:57:39 AM  
 Date Processed : 7/28/2023 11:03:41 AM  
 Default Project - G1KG333-Instrument1 - ALCOHOL\_072123\_RC.gcm



FID1

Name	Conc.	Unit	Area	Height
METHANOL	0.0000	g/100cc	25292	12178
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.4701	g/100cc	41109	17478
ISOPROPYL ALCOHOL	0.0000	g/100cc	56682	20154
ACETONE	0.0000	g/100cc	13664	4792
N-PROPANOL	0.0000	g/100cc	41338	11707
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

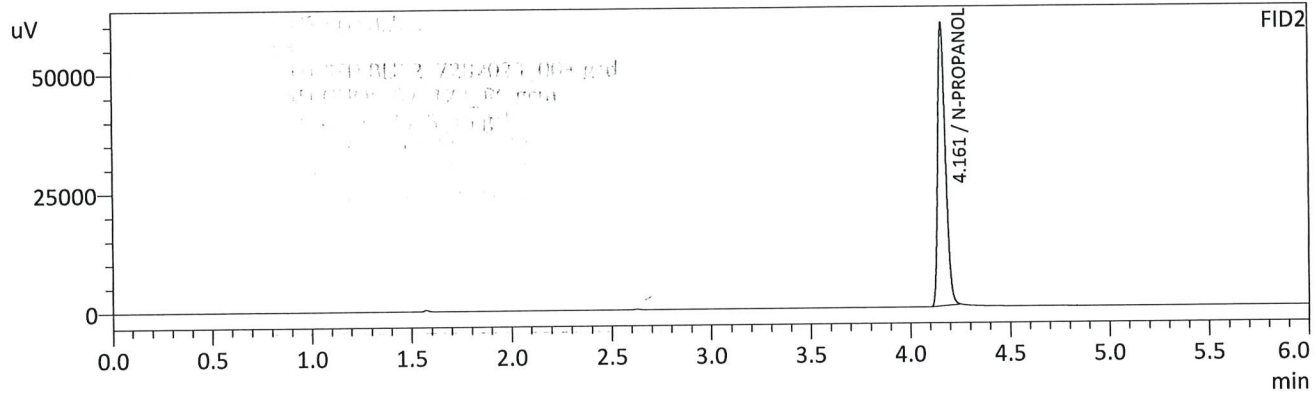
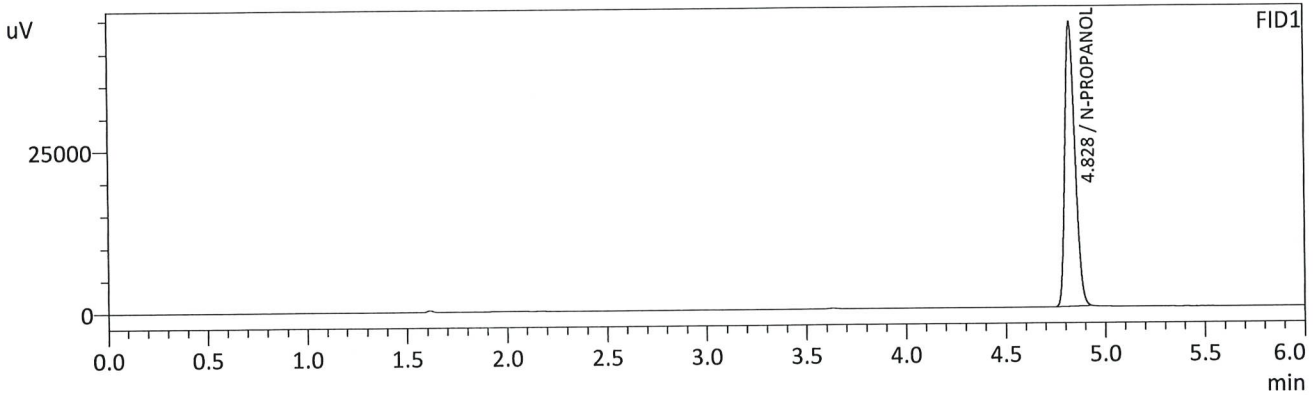
FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	0.0000	g/100cc	26382	13576
ETHANOL	0.4856	g/100cc	42613	21057
ACETONE	0.0000	g/100cc	14450	7120
ISOPROPYL ALCOHOL	0.0000	g/100cc	58575	27573
N-PROPANOL	0.0000	g/100cc	41336	15332
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--



TS

Sample Name : INT STD BLK 2  
 Vial # : 3  
 Data Filename : INT STD BLK 2\_7282023\_003.gcd  
 Method Filename : ALCOHOL\_072123\_RC.gcm  
 Batch Filename : BATCH\_072823\_TS.gcb  
 Date Acquired : 7/28/2023 11:07:00 AM  
 Date Processed : 7/28/2023 11:13:01 AM  
 Default Project - G1KG333-Instrument1 - ALCOHOL\_072123\_RC.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	154397	43894
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	159046	59577
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--



TS

VOLATILES DETERMINATION CASEFILE WORKSHEET

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: QC1-1		Analysis Date(s): 7/28/2023 11:16:44 AM(-06:00)				
	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0726	0.0728	0.0002	0.0727	0.0001	0.0727
(g/100cc)	0.0728	0.0729	0.0001	0.0728		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

Refer To Instrument Method: ALCOHOL\_072123\_RC.gcm

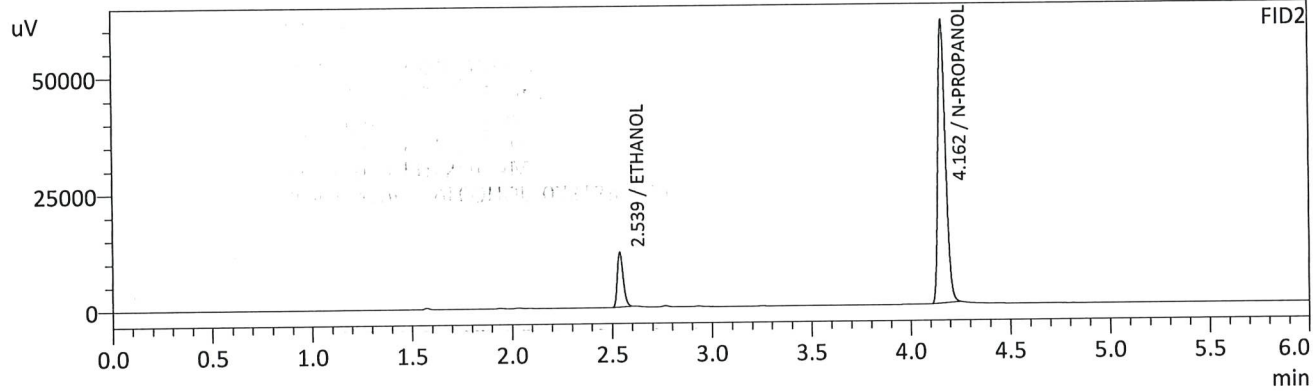
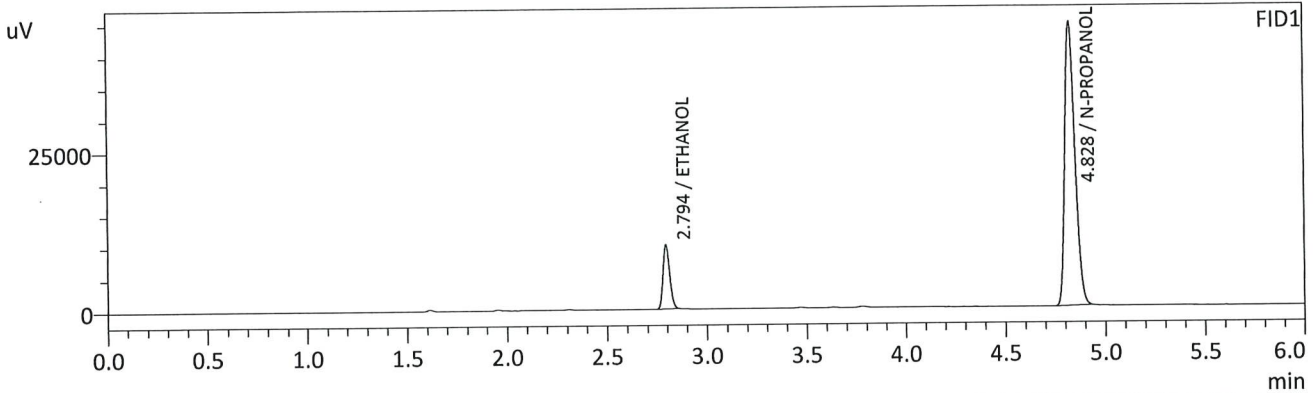
Reporting of Results	Uncertainty of Measurements (UM%): 5.00%		
Overall Mean (g/100cc)	Low	High	5 % of Mean
0.072	0.068	0.076	0.004

	Reported Results
	0.072

Calibration and control data are stored centrally.

15

Sample Name : QC1-1  
 Vial # : 4  
 Data Filename : QC1-1\_7282023\_004.gcd  
 Method Filename : ALCOHOL\_072123\_RC.gcm  
 Batch Filename : BATCH\_072823\_TS.gcb  
 Date Acquired : 7/28/2023 11:16:44 AM  
 Date Processed : 7/28/2023 11:22:46 AM  
 Default Project - G1KG333-Instrument1 - ALCOHOL\_072123\_RC.gcm



FID1

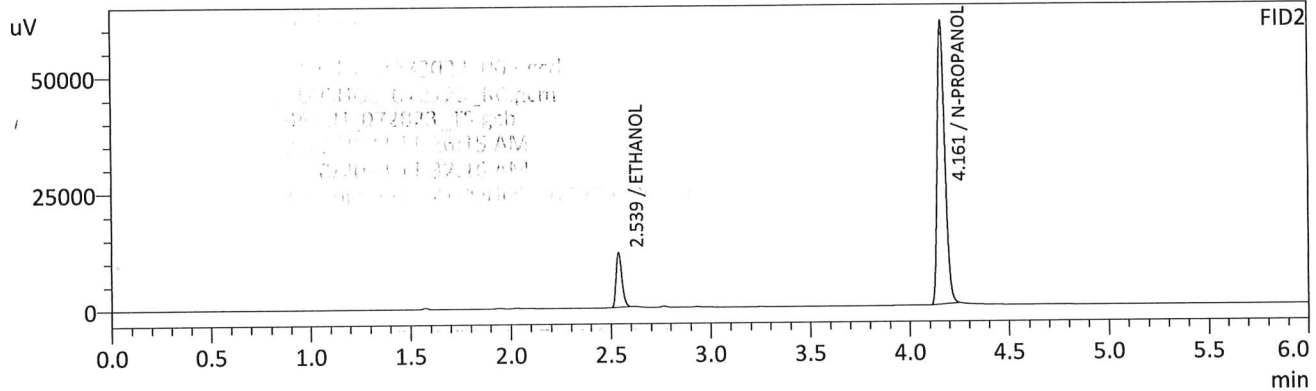
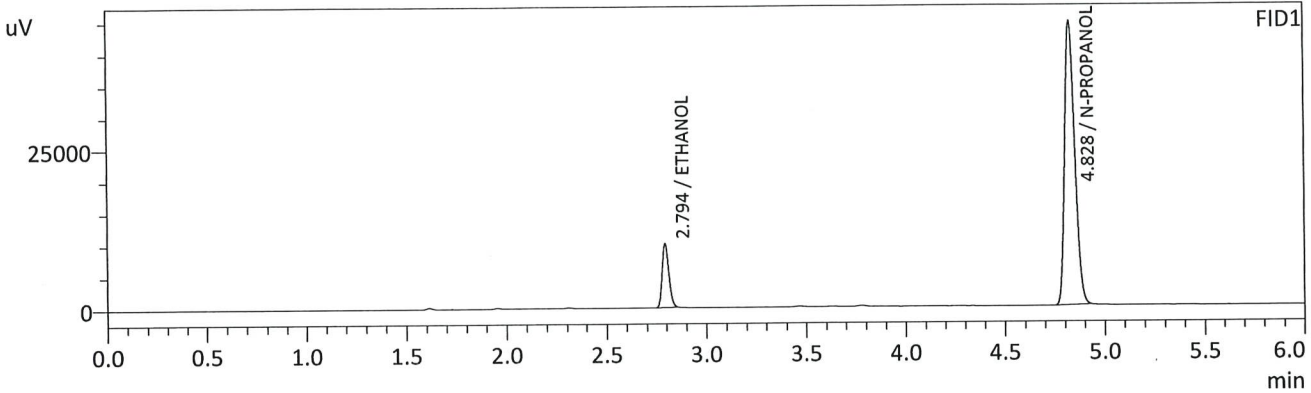
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0726	g/100cc	23544	10020
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	157427	44586
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0728	g/100cc	23711	11538
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	162251	60758
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

TS

Sample Name : QC1-1-B  
 Vial # : 5  
 Data Filename : QC1-1-B\_7282023\_005.gcd  
 Method Filename : ALCOHOL\_072123\_RC.gcm  
 Batch Filename : BATCH\_072823\_TS.gcb  
 Date Acquired : 7/28/2023 11:26:15 AM  
 Date Processed : 7/28/2023 11:32:16 AM  
 Default Project - G1KG333-Instrument1 - ALCOHOL\_072123\_RC.gcm



FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0728	g/100cc	23611	10044
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	157355	44572
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0729	g/100cc	23769	11611
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	162277	60896
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

TS

VOLATILES DETERMINATION CASEFILE WORKSHEET

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: 0.08 QA		Analysis Date(s): 7/28/2023 11:35:33 AM(-06:00)				
	Column 1	Column 2	Column	Mean	Sample A-B	Over-all Mean
	FID A	FID B	Precision	Value	Difference	
Sample Results	0.0806	0.0806	0.0000	0.0806	0.0001	0.0806
(g/100cc)	0.0808	0.0807	0.0001	0.0807		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

Refer To Instrument Method: ALCOHOL\_072123\_RC.gcm

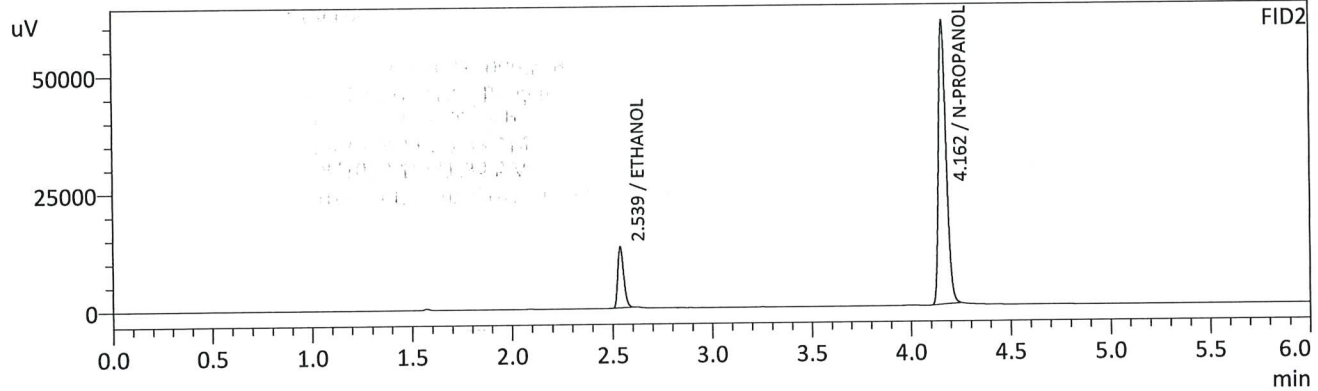
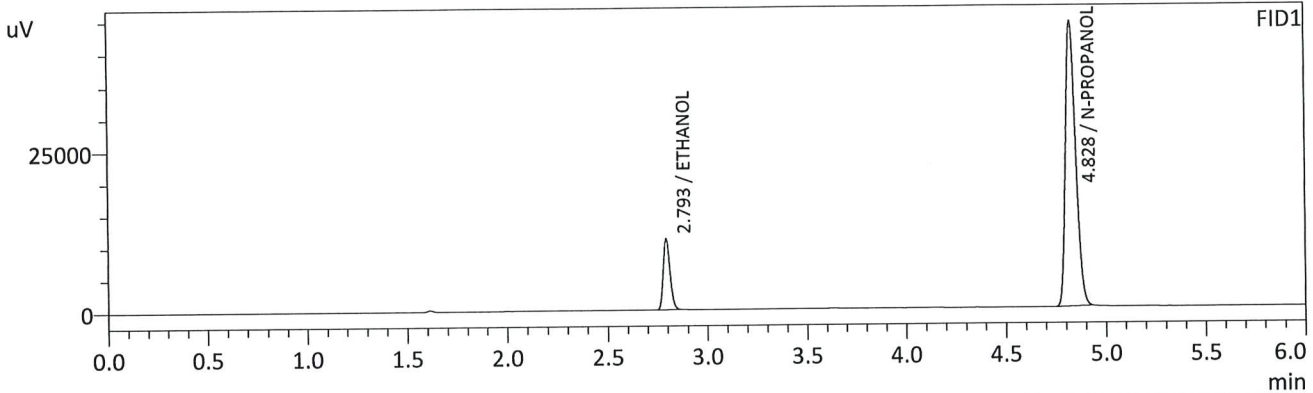
Reporting of Results	Uncertainty of Measurements (UM%): 5.00%		
Overall Mean (g/100cc)	Low	High	5 % of Mean
0.080	0.076	0.084	0.004

Reported Results	
FID A	0.080

Calibration and control data are stored centrally.

15

Sample Name : 0.08 QA  
 Vial # : 6  
 Data Filename : 0.08 QA\_7282023\_006.gcd  
 Method Filename : ALCOHOL\_072123\_RC.gcm  
 Batch Filename : BATCH\_072823\_TS.gcb  
 Date Acquired : 7/28/2023 11:35:33 AM  
 Date Processed : 7/28/2023 11:41:34 AM  
 Default Project - G1KG333-Instrument1 - ALCOHOL\_072123\_RC.gcm



FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0806	g/100cc	25965	11024
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	155879	44195
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

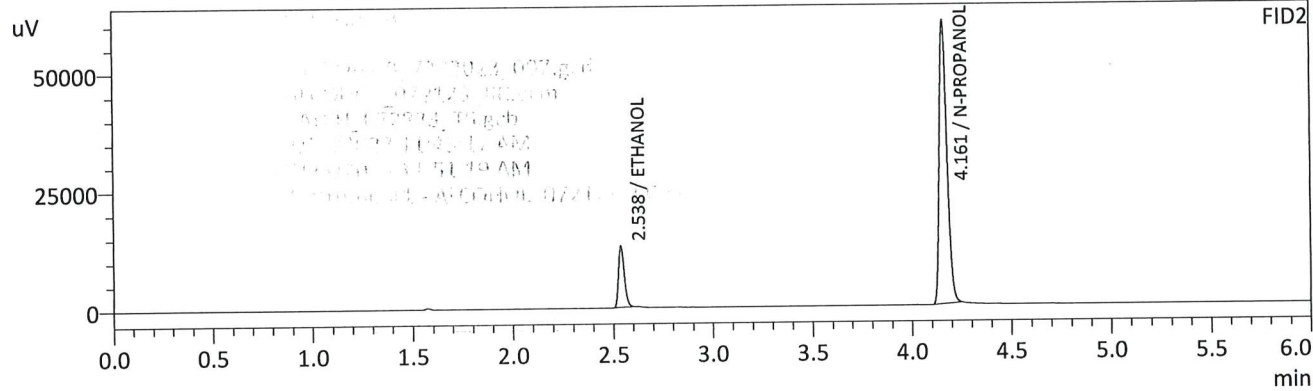
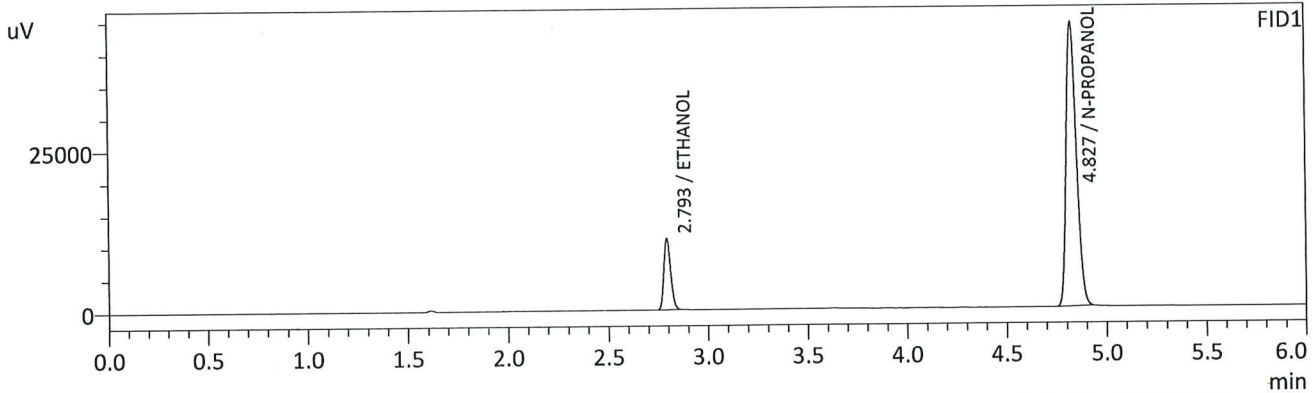
FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0806	g/100cc	26183	12803
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	160730	60132
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--



TS

Sample Name : 0.08 QA - B  
 Vial # : 7  
 Data Filename : 0.08 QA - B\_7282023\_007.gcd  
 Method Filename : ALCOHOL\_072123\_RC.gcm  
 Batch Filename : BATCH\_072823\_TS.gcb  
 Date Acquired : 7/28/2023 11:45:17 AM  
 Date Processed : 7/28/2023 11:51:19 AM  
 Default Project - G1KG333-Instrument1 - ALCOHOL\_072123\_RC.gcm



FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0808	g/100cc	25977	11023
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	155598	44064
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0807	g/100cc	26210	12857
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	160595	60084
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--



TS

VOLATILES DETERMINATION CASEFILE WORKSHEET

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: QC2-1		Analysis Date(s): 7/28/2023 2:46:10 PM(-06:00)				
	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.2082	0.2103	0.0021	0.2092	0.0007	0.2095
(g/100cc)	0.2087	0.2111	0.0024	0.2099		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

Refer To Instrument Method: ALCOHOL\_072123\_RC.gcm

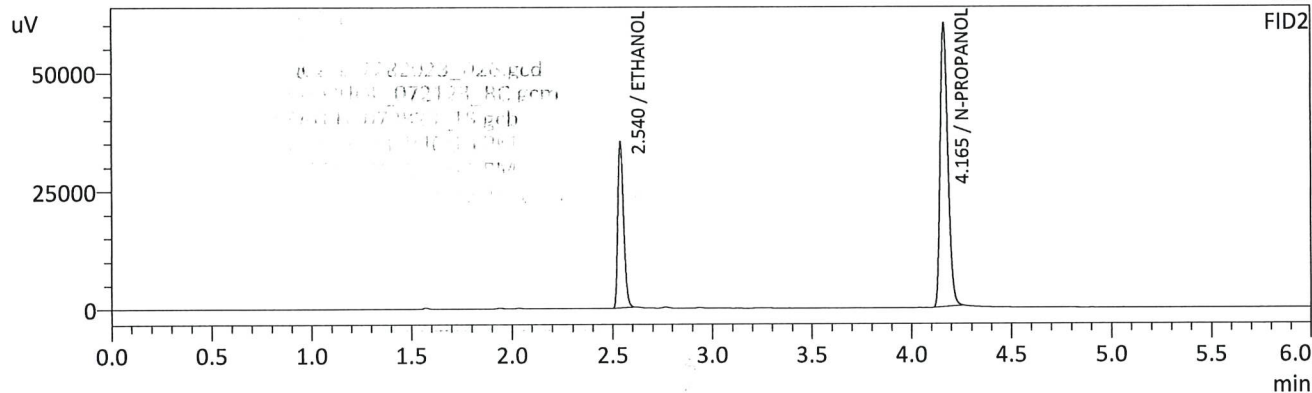
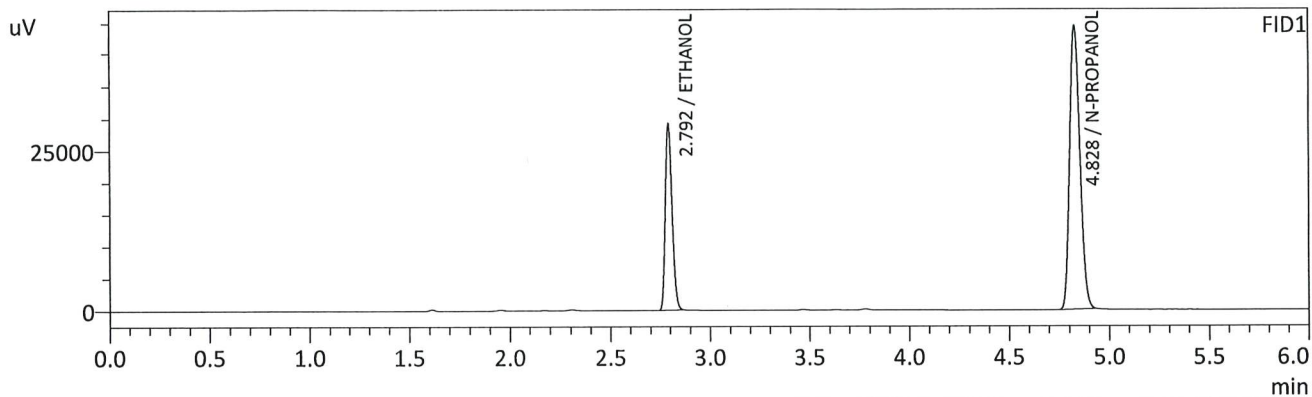
Reporting of Results	Uncertainty of Measurements (UM%): 5.00%		
Overall Mean (g/100cc)	Low	High	5 % of Mean
0.209	0.198	0.220	0.011

	Reported Results	
	FID A	0.209

Calibration and control data are stored centrally.

15

Sample Name : QC2-1  
 Vial # : 26  
 Data Filename : QC2-1\_7282023\_026.gcd  
 Method Filename : ALCOHOL\_072123\_RC.gcm  
 Batch Filename : BATCH\_072823\_TS.gcb  
 Date Acquired : 7/28/2023 2:46:10 PM  
 Date Processed : 7/28/2023 2:52:11 PM  
 Default Project - G1KG333-Instrument1 - ALCOHOL\_072123\_RC.gcm



FID1

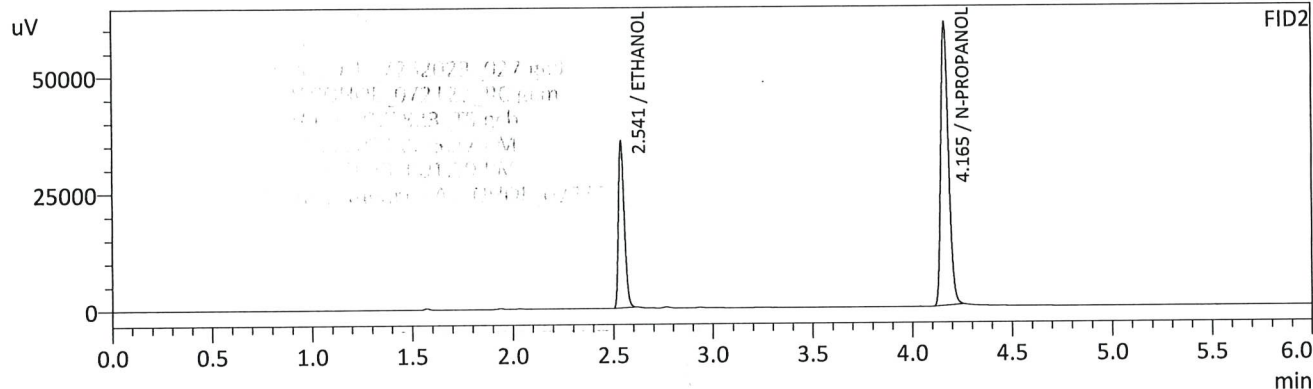
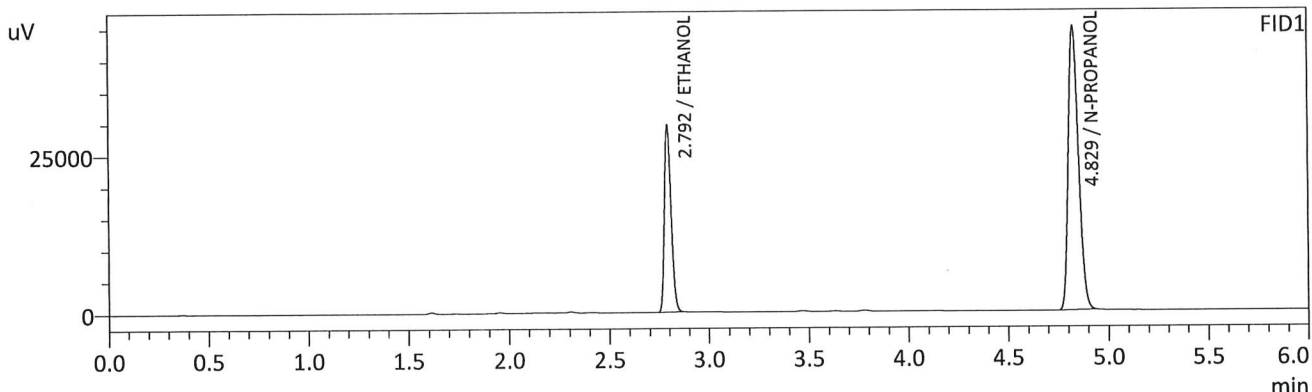
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.2082	g/100cc	68657	29036
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	156811	44400
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.2103	g/100cc	70691	34968
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	160375	60000
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

TS

Sample Name : QC2-1-B  
 Vial # : 27  
 Data Filename : QC2-1-B\_7282023\_027.gcd  
 Method Filename : ALCOHOL\_072123\_RC.gcm  
 Batch Filename : BATCH\_072823\_TS.gcb  
 Date Acquired : 7/28/2023 2:55:27 PM  
 Date Processed : 7/28/2023 3:01:29 PM  
 Default Project - G1KG333-Instrument1 - ALCOHOL\_072123\_RC.gcm



FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.2087	g/100cc	69477	29448
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	158304	44888
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.2111	g/100cc	71651	35605
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	161911	60722
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

01200

2.000  
0.000  
0.000  
0.000

TS

VOLATILES DETERMINATION CASEFILE WORKSHEET

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: QC1-2		Analysis Date(s): 7/28/2023 6:15:24 PM(-06:00)				
	Column 1	Column 2	Column	Mean	Sample A-B	Over-all Mean
	FID A	FID B	Precision	Value	Difference	
Sample Results	0.0785	0.0799	0.0014	0.0792	0.0009	0.0796
(g/100cc)	0.0794	0.0809	0.0015	0.0801		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

Refer To Instrument Method: ALCOHOL\_072123\_RC.gcm

Reporting of Results	Uncertainty of Measurements (UM%): 5.00%		
Overall Mean (g/100cc)	Low	High	5 % of Mean
0.079	0.075	0.083	0.004

	Reported Results	
	FID A	0.079

Calibration and control data are stored centrally.

0.0785 0.0014  
0.0794 0.0015

0.0792 0.0009

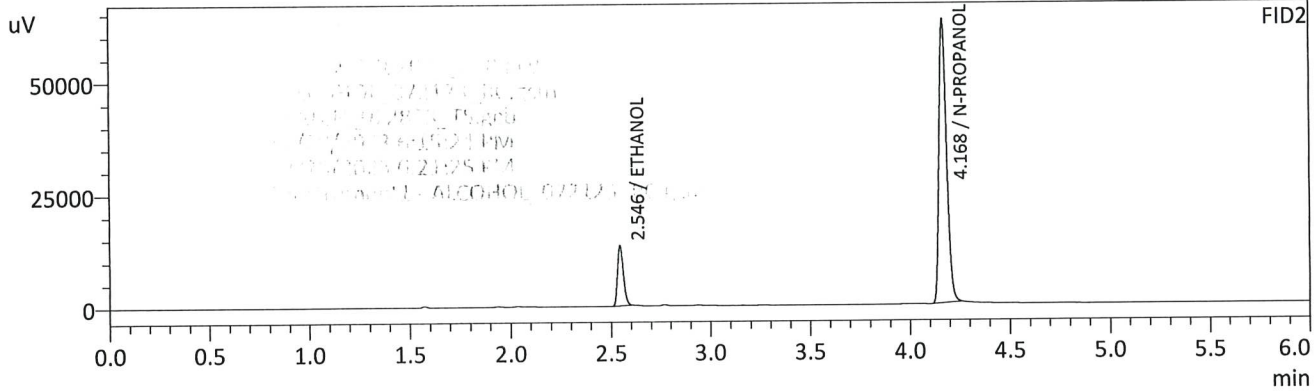
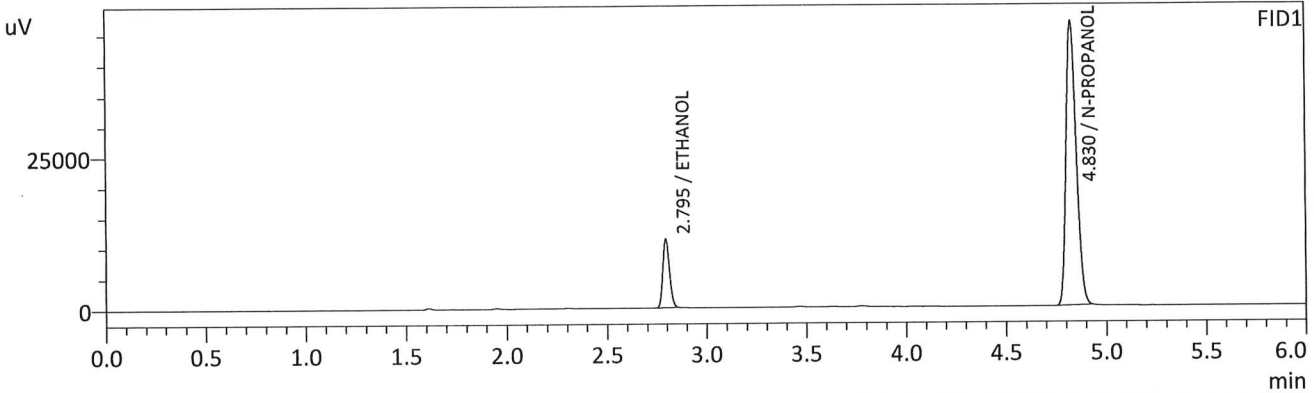
0.0796 0.0009

0.0796 0.0009

0.0796 0.0009

TS

Sample Name : QC1-2  
 Vial # : 48  
 Data Filename : QC1-2\_7282023\_048.gcd  
 Method Filename : ALCOHOL\_072123\_RC.gcm  
 Batch Filename : BATCH\_072823\_TS.gcb  
 Date Acquired : 7/28/2023 6:15:24 PM  
 Date Processed : 7/28/2023 6:21:25 PM  
 Default Project - G1KG333-Instrument1 - ALCOHOL\_072123\_RC.gcm



FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0785	g/100cc	26679	11235
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	164628	46645
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

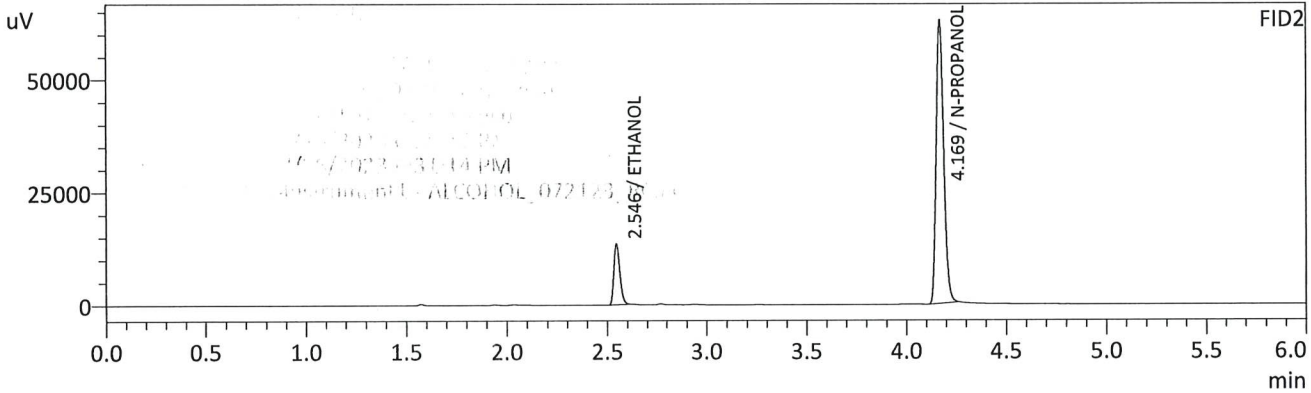
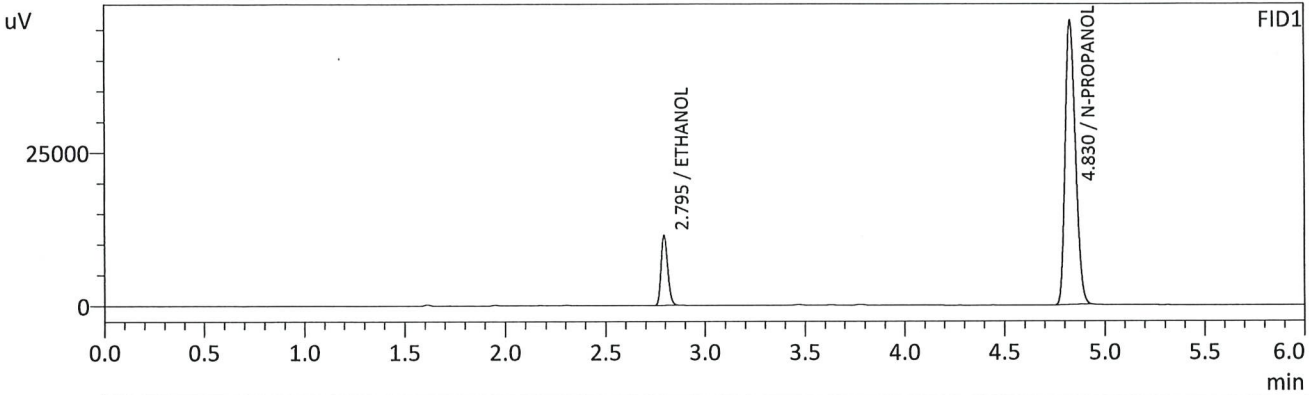
FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0799	g/100cc	27201	13379
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	168476	62781
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--



TS

Sample Name : QC1-2-B  
 Vial # : 49  
 Data Filename : QC1-2-B\_7282023\_049.gcd  
 Method Filename : ALCOHOL\_072123\_RC.gcm  
 Batch Filename : BATCH\_072823\_TS.gcb  
 Date Acquired : 7/28/2023 6:25:13 PM  
 Date Processed : 7/28/2023 6:31:14 PM  
 Default Project - G1KG333-Instrument1 - ALCOHOL\_072123\_RC.gcm



FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0794	g/100cc	26816	11268
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	163492	46241
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

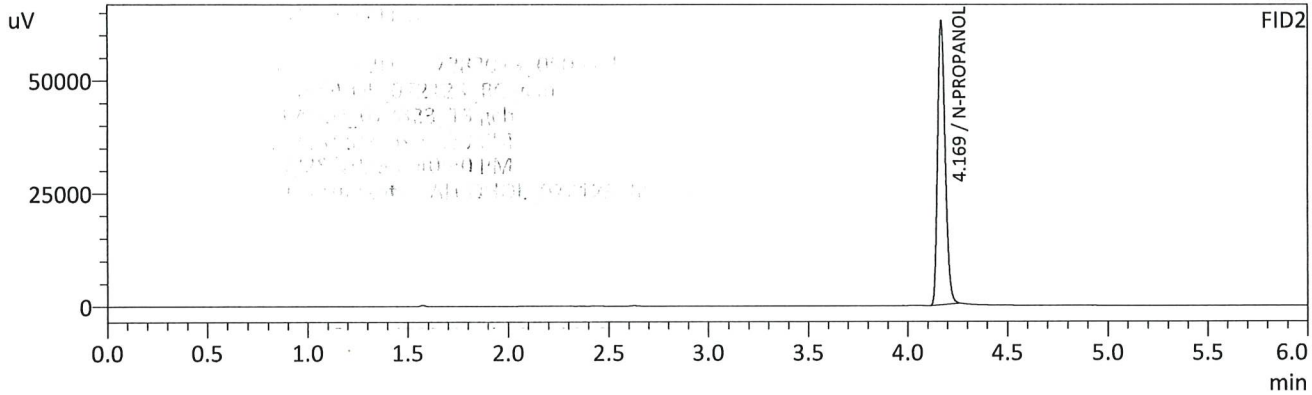
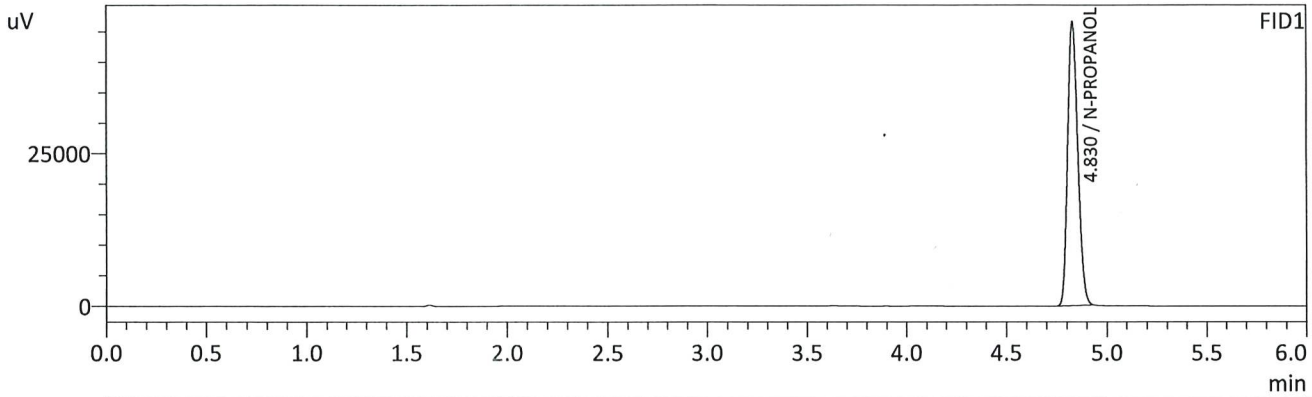
FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0809	g/100cc	27356	13461
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	167209	62733
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--



TS

Sample Name : INT STD BLK 3  
 Vial # : 50  
 Data Filename : INT STD BLK 3\_7282023\_050.gcd  
 Method Filename : ALCOHOL\_072123\_RC.gcm  
 Batch Filename : BATCH\_072823\_TS.gcb  
 Date Acquired : 7/28/2023 6:34:39 PM  
 Date Processed : 7/28/2023 6:40:40 PM  
 Default Project - G1KG333-Instrument1 - ALCOHOL\_072123\_RC.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	163440	46362
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	167474	62885
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

# Region 5 Pocatello Blood Alcohol Analysis Batch Table

Shimadzu Nexis GC-2030 Serial Number: C12255850662

Shimadzu HS-20 Serial Number: C12595700014

LabSolutions Version 6.117

Copyright (C) 2008-2022 Shimadzu Corporation. All rights reserved.

Vial#	Sample Name	Sample Type	Method File	Data File	Level#
1	INT STD BLK 1	0:Unknown	ALCOHOL_072123_RC.gcm	1-806 - INT STD BLK 1_7282023_001.gcd	0
2	MULTI-COMP MIX	0:Unknown	ALCOHOL_072123_RC.gcm	807 - MULTI-COMP MIX_7282023_002.gcd	1
3	INT STD BLK 2	0:Unknown	ALCOHOL_072123_RC.gcm	1-808 - INT STD BLK 2_7282023_003.gcd	0
4	QC1-1	0:Unknown	ALCOHOL_072123_RC.gcm	1-809 - QC1-1_7282023_004.gcd	0
5	QC1-1-B	0:Unknown	ALCOHOL_072123_RC.gcm	1-810 - QC1-1-B_7282023_005.gcd	0
6	0.08 QA	0:Unknown	ALCOHOL_072123_RC.gcm	1-811 - 0.08 QA_7282023_006.gcd	0
7	0.08 QA - B	0:Unknown	ALCOHOL_072123_RC.gcm	1-812 - 0.08 QA - B_7282023_007.gcd	0
8	P2023-2139-1	0:Unknown	ALCOHOL_072123_RC.gcm	1-813 - P2023-2139-1_7282023_008.gcd	0
9	P2023-2139-1-B	0:Unknown	ALCOHOL_072123_RC.gcm	1-814 - P2023-2139-1-B_7282023_009.gcd	0
10	P2023-2140-1	0:Unknown	ALCOHOL_072123_RC.gcm	1-815 - P2023-2140-1_7282023_010.gcd	0
11	P2023-2140-1-B	0:Unknown	ALCOHOL_072123_RC.gcm	1-816 - P2023-2140-1-B_7282023_011.gcd	0
12	P2023-2143-1	0:Unknown	ALCOHOL_072123_RC.gcm	1-817 - P2023-2143-1_7282023_012.gcd	0
13	P2023-2143-1-B	0:Unknown	ALCOHOL_072123_RC.gcm	1-818 - P2023-2143-1-B_7282023_013.gcd	0
14	P2023-2146-1	0:Unknown	ALCOHOL_072123_RC.gcm	1-819 - P2023-2146-1_7282023_014.gcd	0
15	P2023-2146-1-B	0:Unknown	ALCOHOL_072123_RC.gcm	1-820 - P2023-2146-1-B_7282023_015.gcd	0
16	P2023-2152-1	0:Unknown	ALCOHOL_072123_RC.gcm	1-821 - P2023-2152-1_7282023_016.gcd	0
17	P2023-2152-1-B	0:Unknown	ALCOHOL_072123_RC.gcm	1-822 - P2023-2152-1-B_7282023_017.gcd	0
18	P2023-2153-1	0:Unknown	ALCOHOL_072123_RC.gcm	1-823 - P2023-2153-1_7282023_018.gcd	0
19	P2023-2153-1-B	0:Unknown	ALCOHOL_072123_RC.gcm	1-824 - P2023-2153-1-B_7282023_019.gcd	0
20	P2023-2164-1	0:Unknown	ALCOHOL_072123_RC.gcm	1-825 - P2023-2164-1_7282023_020.gcd	0
21	P2023-2164-1-B	0:Unknown	ALCOHOL_072123_RC.gcm	1-826 - P2023-2164-1-B_7282023_021.gcd	0
22	P2023-2186-1	0:Unknown	ALCOHOL_072123_RC.gcm	1-827 - P2023-2186-1_7282023_022.gcd	0
23	P2023-2186-1-B	0:Unknown	ALCOHOL_072123_RC.gcm	1-828 - P2023-2186-1-B_7282023_023.gcd	0
24	P2023-2187-1	0:Unknown	ALCOHOL_072123_RC.gcm	1-829 - P2023-2187-1_7282023_024.gcd	0
25	P2023-2187-1-B	0:Unknown	ALCOHOL_072123_RC.gcm	1-830 - P2023-2187-1-B_7282023_025.gcd	0
26	QC2-1	0:Unknown	ALCOHOL_072123_RC.gcm	1-831 - QC2-1_7282023_026.gcd	0
27	QC2-1-B	0:Unknown	ALCOHOL_072123_RC.gcm	1-832 - QC2-1-B_7282023_027.gcd	0
28	P2023-2189-1	0:Unknown	ALCOHOL_072123_RC.gcm	1-833 - P2023-2189-1_7282023_028.gcd	0
29	P2023-2189-1-B	0:Unknown	ALCOHOL_072123_RC.gcm	1-834 - P2023-2189-1-B_7282023_029.gcd	0
30	P2023-2223-1	0:Unknown	ALCOHOL_072123_RC.gcm	1-835 - P2023-2223-1_7282023_030.gcd	0
31	P2023-2223-1-B	0:Unknown	ALCOHOL_072123_RC.gcm	1-836 - P2023-2223-1-B_7282023_031.gcd	0
32	P2023-2224-1	0:Unknown	ALCOHOL_072123_RC.gcm	1-837 - P2023-2224-1_7282023_032.gcd	0
33	P2023-2224-1-B	0:Unknown	ALCOHOL_072123_RC.gcm	1-838 - P2023-2224-1-B_7282023_033.gcd	0
34	P2023-2225-1	0:Unknown	ALCOHOL_072123_RC.gcm	1-839 - P2023-2225-1_7282023_034.gcd	0
35	P2023-2225-1-B	0:Unknown	ALCOHOL_072123_RC.gcm	1-840 - P2023-2225-1-B_7282023_035.gcd	0
36	P2023-2226-1	0:Unknown	ALCOHOL_072123_RC.gcm	1-841 - P2023-2226-1_7282023_036.gcd	0
37	P2023-2226-1-B	0:Unknown	ALCOHOL_072123_RC.gcm	1-842 - P2023-2226-1-B_7282023_037.gcd	0
38	P2023-2227-1	0:Unknown	ALCOHOL_072123_RC.gcm	1-843 - P2023-2227-1_7282023_038.gcd	0
39	P2023-2227-1-B	0:Unknown	ALCOHOL_072123_RC.gcm	1-844 - P2023-2227-1-B_7282023_039.gcd	0
40	P2023-2228-1	0:Unknown	ALCOHOL_072123_RC.gcm	1-845 - P2023-2228-1_7282023_040.gcd	0
41	P2023-2228-1-B	0:Unknown	ALCOHOL_072123_RC.gcm	1-846 - P2023-2228-1-B_7282023_041.gcd	0
42	P2023-2229-1	0:Unknown	ALCOHOL_072123_RC.gcm	1-847 - P2023-2229-1_7282023_042.gcd	0
43	P2023-2229-1-B	0:Unknown	ALCOHOL_072123_RC.gcm	1-848 - P2023-2229-1-B_7282023_043.gcd	0
44	P2023-2231-1	0:Unknown	ALCOHOL_072123_RC.gcm	1-849 - P2023-2231-1_7282023_044.gcd	0
45	P2023-2231-1-B	0:Unknown	ALCOHOL_072123_RC.gcm	1-850 - P2023-2231-1-B_7282023_045.gcd	0
46	P2023-2232-1	0:Unknown	ALCOHOL_072123_RC.gcm	1-851 - P2023-2232-1_7282023_046.gcd	0
47	P2023-2232-1-B	0:Unknown	ALCOHOL_072123_RC.gcm	1-852 - P2023-2232-1-B_7282023_047.gcd	0
48	QC1-2	0:Unknown	ALCOHOL_072123_RC.gcm	1-853 - QC1-2_7282023_048.gcd	0
49	QC1-2-B	0:Unknown	ALCOHOL_072123_RC.gcm	1-854 - QC1-2-B_7282023_049.gcd	0
50	INT STD BLK 3	0:Unknown	ALCOHOL_072123_RC.gcm	1-855 - INT STD BLK 3_7282023_050.gcd	0