




















**Worklist: 6622**

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
M2023-4769	2	UCK	Alcohol Analysis	
M2023-4964	2	BCK	Alcohol Analysis	
P2023-3720	1	BCK	Alcohol Analysis	
P2023-3746	1	BCK	Alcohol Analysis	
P2023-3747	1	BCK	Alcohol Analysis	
P2023-3748	1	BCK	Alcohol Analysis	
P2023-3761	1	BCK	Alcohol Analysis	
P2023-3766	1	BCK	Alcohol Analysis	
P2023-3769	1	BCK	Alcohol Analysis	
* P2023-3770	1	BCK	Alcohol Analysis	
* P2023-3771	1	BCK	Alcohol Analysis	
P2023-3772	1	BCK	Alcohol Analysis	
P2023-3773	1	BCK	Alcohol Analysis	
P2023-3774	1	BCK	Alcohol Analysis	
P2023-3802	1	BCK	Alcohol Analysis	
P2023-3818	1	BCK	Alcohol Analysis	
* P2023-3821	1	BCK	Alcohol Analysis	
P2023-3826	1	BCK	Alcohol Analysis	
* P2023-3832	1	BCK	Alcohol Analysis	

\* Will run new samples in next batch.  
Column precision outside of tolerance.

RC  
12/29/23

**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): 12/28/23*

*Calibration Date: (if different):*

*Worklist #: 6622*

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Oct-26	2209047	0.0877	0.0789-0.0964	0.0821 g/100cc
					0.0914 g/100cc
					g/100cc
Level 2	Mar-26	2110181	0.2030	0.1827-0.2233	0.2102 g/100cc
					g/100cc
					g/100cc
<b>Multi-Component mixture:</b>		<b>Exp:</b>	<b>2024 October</b>	<b>Lot #</b>	<b>FN06041902 OK</b>
<b>Curve Fit:</b>		<b>Column 1</b>	<b>0.99997</b>	<b>Column2</b>	<b>0.99984</b>

**Ethanol Calibration Reference Material**

Calibrator level	Target Value	Acceptable Range	Column 1	Column 2	Precision	Mean
50	0.050	0.045 - 0.055	0.0506	0.0525	0.0019	0.0515
100	0.100	0.090 - 0.110	0.1003	0.0999	0.0004	0.1001
200	0.200	0.180 - 0.220	0.1984	0.1968	0.0016	0.1976
300	0.300	0.270 - 0.330	0.3002	0.2991	0.0011	0.2996
400	0.400	0.360 - 0.440			0	#DIV/0!
500	0.500	0.450 - 0.550	0.5003	0.5015	0.0012	0.5009

**Aqueous Controls**

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

**Internal Standard Monitoring Worksheet**

**Worksheet #:**

**6622**

**Run Date(s):**

**12/28/23**

Internal Standard Solution:	Prep Date:	12/26/2023	Exp Date:	6/26/2024
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Sample Name	Column 1 Value	Column 2 Value
0.080	146994	147256
0.080	146582	146016
QC1	148422	148719
QC1	149765	151081
QC1	159259	158025
QC1	161653	160170
QC1		
QC1		
QC2	147816	146490
QC2	153778	152913
QC2		
QC2		
QC2		
QC2		

	Average	(-)20%	(+)20%
Column 1	151783.6	121426.9	182140.4
Column 2	151333.8	121067.0	181600.5



Revision: 5

Issue Date: 07/05/2022

Issuing Authority: Quality Manager

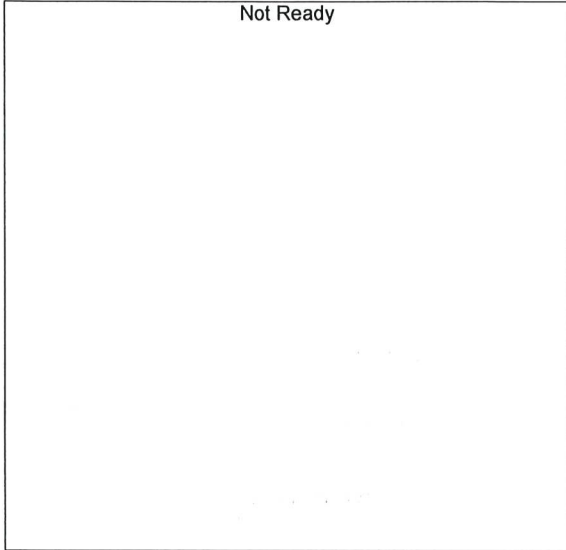
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## Calibration Table

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Laboratory: Pocatello  
 Instrument Name : G1KG333-Instrument1

<<Data File>>  
 Method File :Default Project - ALCOHOL\_122823\_RC.gcm  
 Batch File :Default Project - BATCH\_122823\_RC.gcb  
 Date Acquired :12/28/2023 5:01:11 PM  
 Date Created :12/28/2023 4:57:41 PM  
 Date Modified :12/29/2023 1:35:23 PM



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

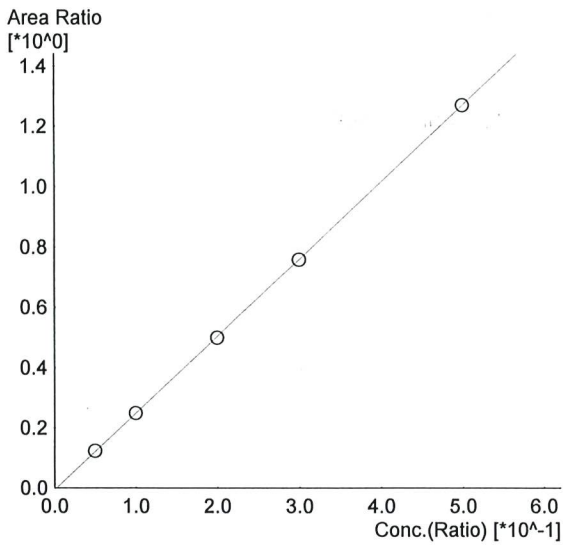
#	Conc.	Area	Std. Conc.	Data File Name
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Name : ACETALDEHYDE  
 Detector Name: FID1  
 Function :  $f(x)=0*x+0$   
 R<sup>2</sup> value= 0  
 FitType: Linear  
 ZeroThrough: Not Through

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





Name : ETHANOL  
 Detector Name: FID1  
 Function :  $f(x)=2.55008*x-0.00627819$   
 R^2 value= 0.9999749 ✓  
 FitType: Linear  
 ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.	Data File Name
1	0.050	17432	0.0506	0.050_12282023_001.gcd
2	0.100	35522	0.1003	0.100_12282023_002.gcd
3	0.200	71976	0.1984	0.200_12282023_003.gcd
4	0.300	109621	0.3002	0.300_12282023_004.gcd
5	0.500	190290	0.5003	0.500_12282023_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
---	-------	------	------------	----------------

Not Ready

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

#	Conc.	Area	Std. Conc.	Data File Name
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Not Ready

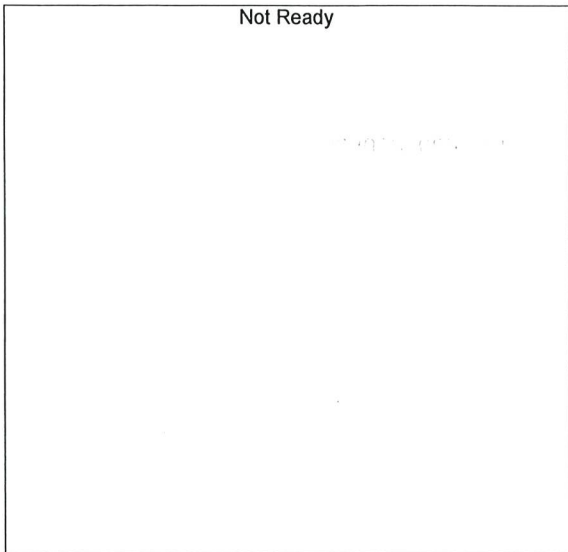
Name : TFE  
Detector Name: FID1  
Function :  $f(x)=0*x+0$   
R<sup>2</sup> value= 0  
FitType: Linear  
ZeroThrough: Not Through

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

Not Ready

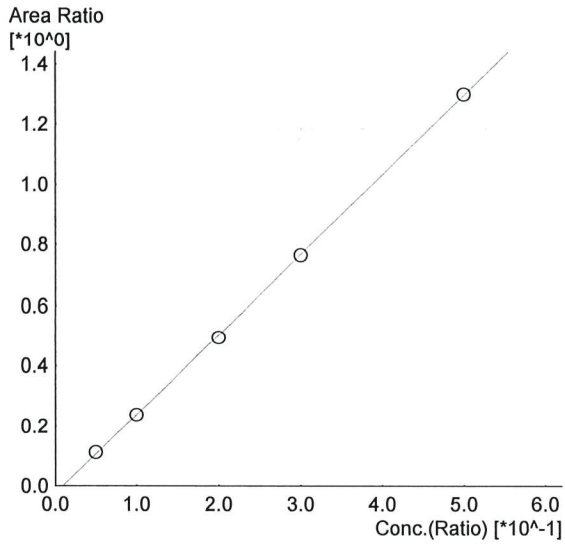
Name : ACETALDEHYDE  
Detector Name: FID2  
Function :  $f(x)=0*x+0$   
R<sup>2</sup> value= 0  
FitType: Linear  
ZeroThrough: Not Through

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

#	Conc.	Area	Std. Conc.	Data File Name
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Name : ETHANOL  
 Detector Name: FID2  
 Function :  $f(x)=2.64264*x-0.0257971$   
 R^2 value= 0.9998493 ✓  
 FitType: Linear  
 ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.	Data File Name
1	0.050	15848	0.0525	0.050_12282023_001.gcd
2	0.100	33586	0.0999	0.100_12282023_002.gcd
3	0.200	70431	0.1968	0.200_12282023_003.gcd
4	0.300	108904	0.2991	0.300_12282023_004.gcd
5	0.500	192218	0.5015	0.500_12282023_005.gcd



Name : ACETONE  
 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
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RC

Not Ready

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
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Not Ready

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
---	-------	------	------------	----------------

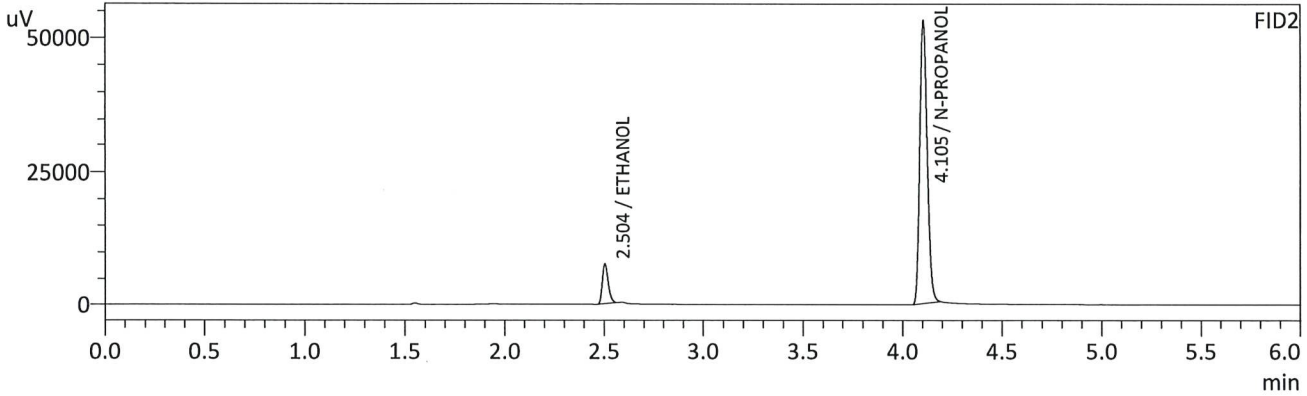
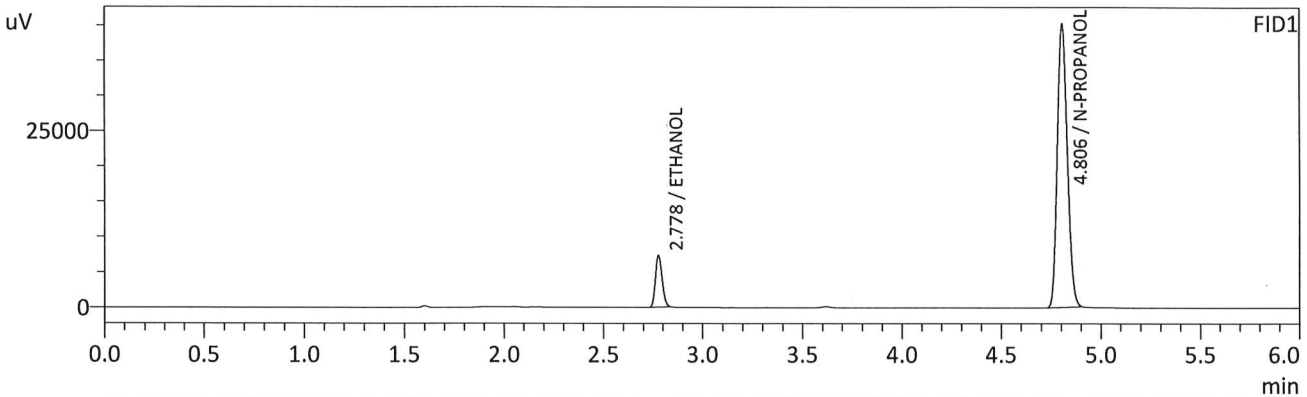
Not Ready

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
---	-------	------	------------	----------------



Sample Name : 0.050  
 Vial # : 1  
 Data Filename : 0.050\_12282023\_001.gcd  
 Method Filename : ALCOHOL\_122823\_RC.gcm  
 Batch Filename : BATCH\_122823\_RC.gcb  
 Date Acquired : 12/28/2023 4:23:03 PM  
 Date Processed : 12/29/2023 1:35:09 PM  
 Default Project - G1KG333-Instrument1 - ALCOHOL\_122823\_RC.gcm



FID1

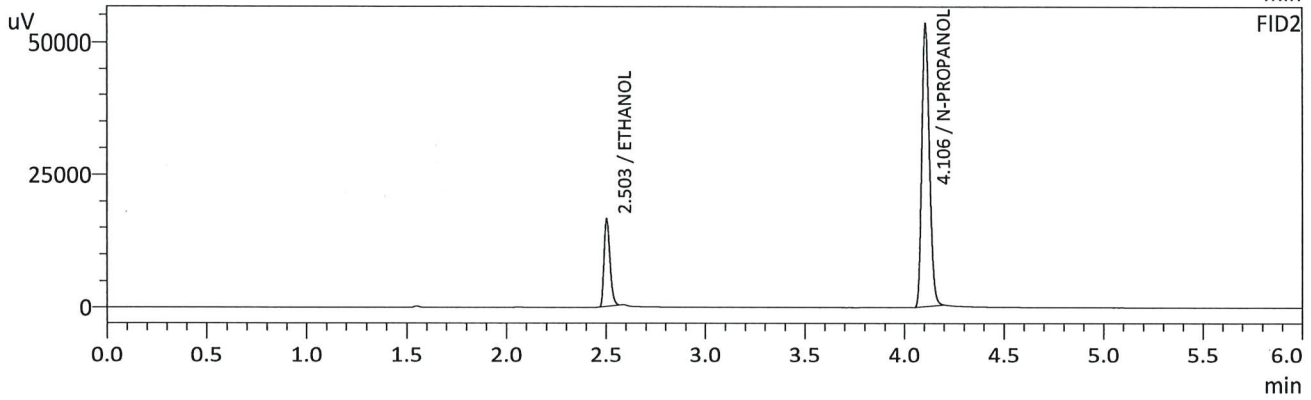
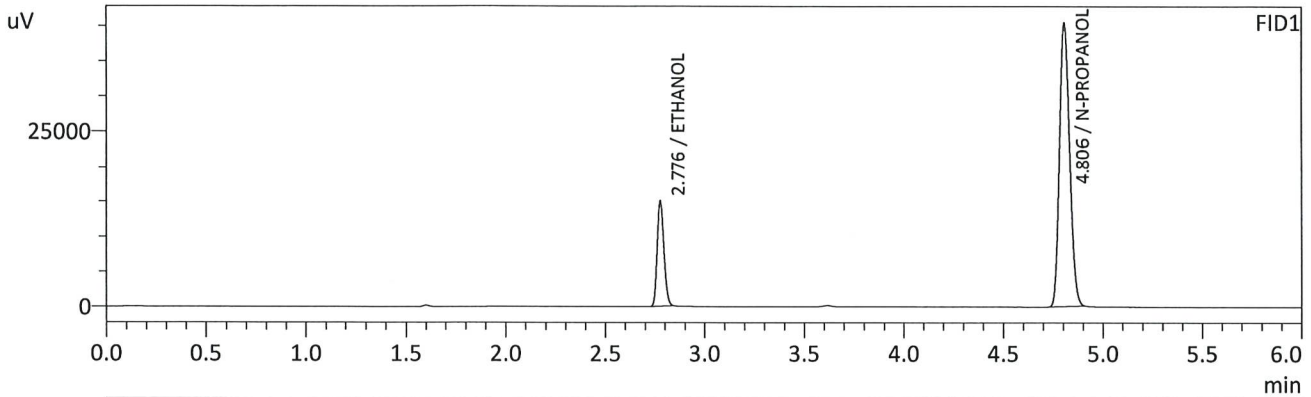
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0506	g/100cc	17432	7297
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	141750	40159
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0525	g/100cc	15848	7725
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	140304	53001
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

*RC*

Sample Name : 0.100  
 Vial # : 2  
 Data Filename : 0.100\_12282023\_002.gcd  
 Method Filename : ALCOHOL\_122823\_RC.gcm  
 Batch Filename : BATCH\_122823\_RC.gcb  
 Date Acquired : 12/28/2023 4:32:32 PM  
 Date Processed : 12/29/2023 1:35:13 PM  
 Default Project - G1KG333-Instrument1 - ALCOHOL\_122823\_RC.gcm



FID1

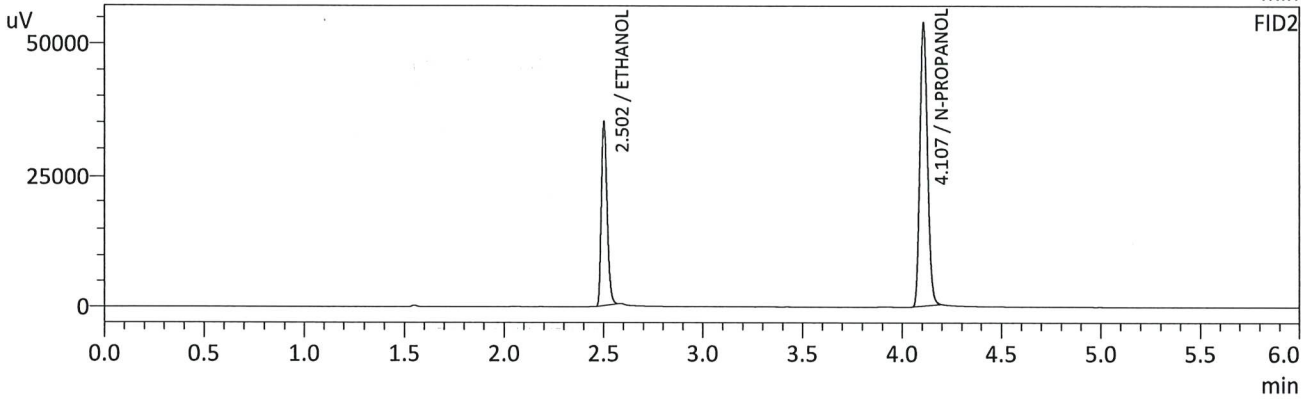
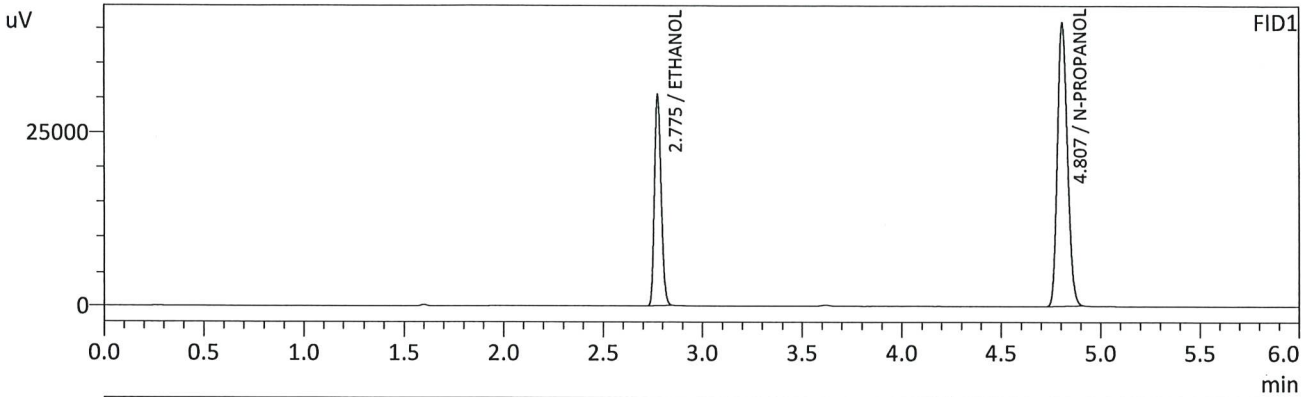
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.1003	g/100cc	35522	14905
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	142372	40281
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0999	g/100cc	33586	16443
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	140877	52887
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

*ARC*

Sample Name : 0.200  
 Vial # : 3  
 Data Filename : 0.200\_12282023\_003.gcd  
 Method Filename : ALCOHOL\_122823\_RC.gcm  
 Batch Filename : BATCH\_122823\_RC.gcb  
 Date Acquired : 12/28/2023 4:41:54 PM  
 Date Processed : 12/29/2023 1:35:17 PM  
 Default Project - G1KG333-Instrument1 - ALCOHOL\_122823\_RC.gcm



FID1

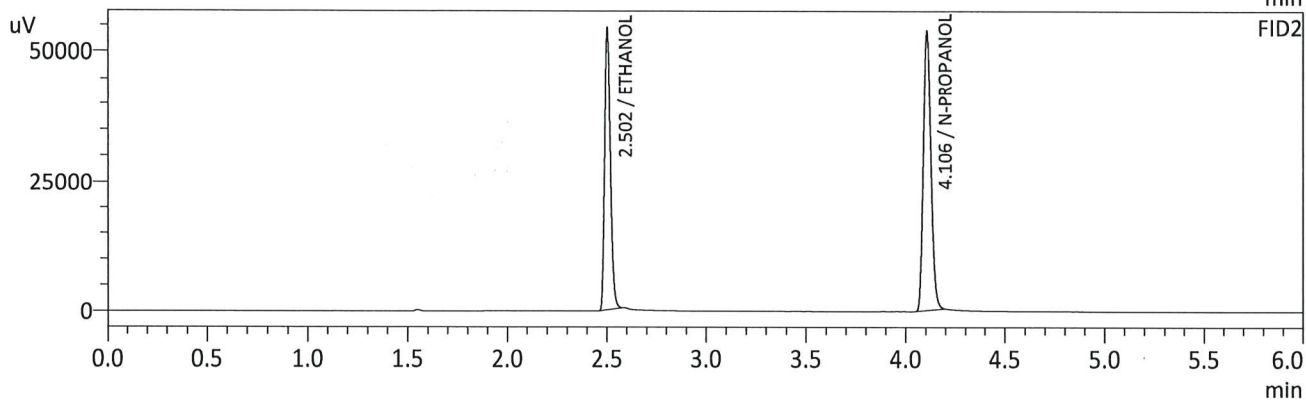
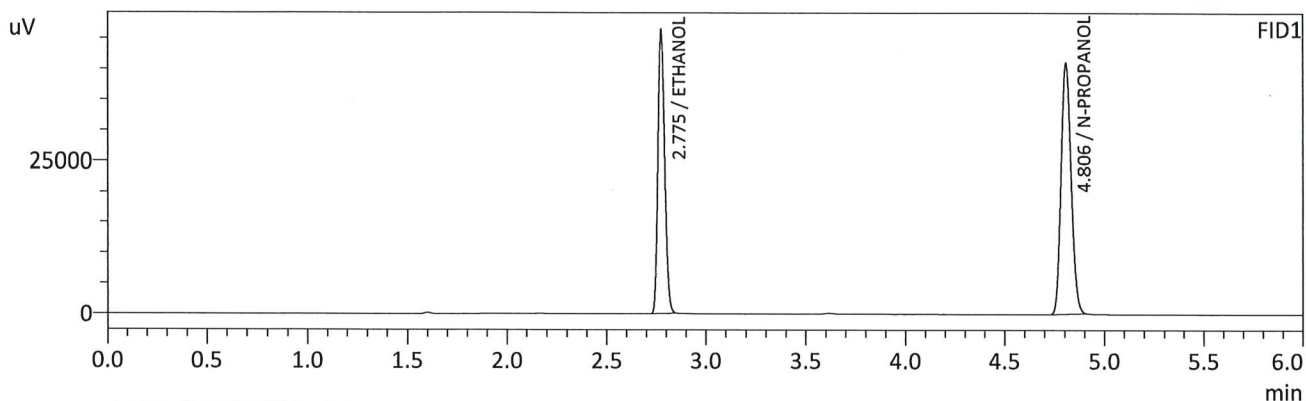
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.1984	g/100cc	71976	30383
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	144031	40686
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.1968	g/100cc	70431	34534
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	142458	53418
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

*JAC*

Sample Name : 0.300  
 Vial # : 4  
 Data Filename : 0.300\_12282023\_004.gcd  
 Method Filename : ALCOHOL\_122823\_RC.gcm  
 Batch Filename : BATCH\_122823\_RC.gcb  
 Date Acquired : 12/28/2023 4:51:39 PM  
 Date Processed : 12/29/2023 1:35:20 PM  
 Default Project - G1KG333-Instrument1 - ALCOHOL\_122823\_RC.gcm



FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.3002	g/100cc	109621	46313
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	144373	40913
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

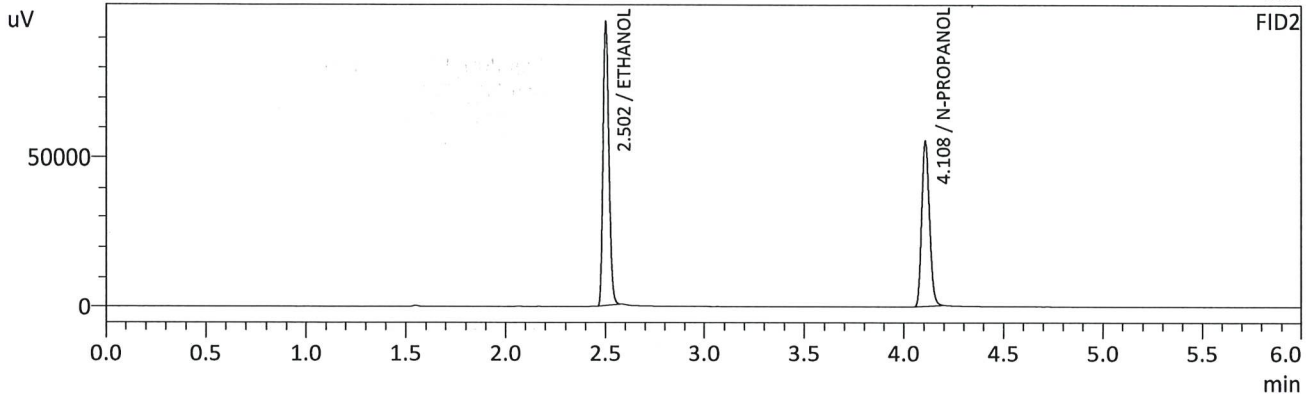
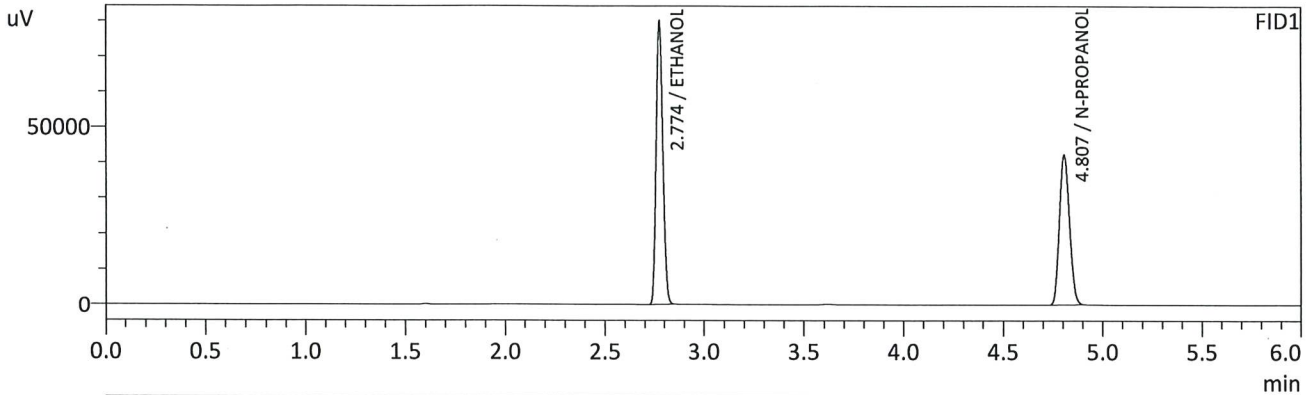
FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.2991	g/100cc	108904	53501
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	142410	53520
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

*JRC*



Sample Name : 0.500  
 Vial # : 5  
 Data Filename : 0.500\_12282023\_005.gcd  
 Method Filename : ALCOHOL\_122823\_RC.gcm  
 Batch Filename : BATCH\_122823\_RC.gcb  
 Date Acquired : 12/28/2023 5:01:11 PM  
 Date Processed : 12/29/2023 1:35:23 PM  
 Default Project - G1KG333-Instrument1 - ALCOHOL\_122823\_RC.gcm



FID1

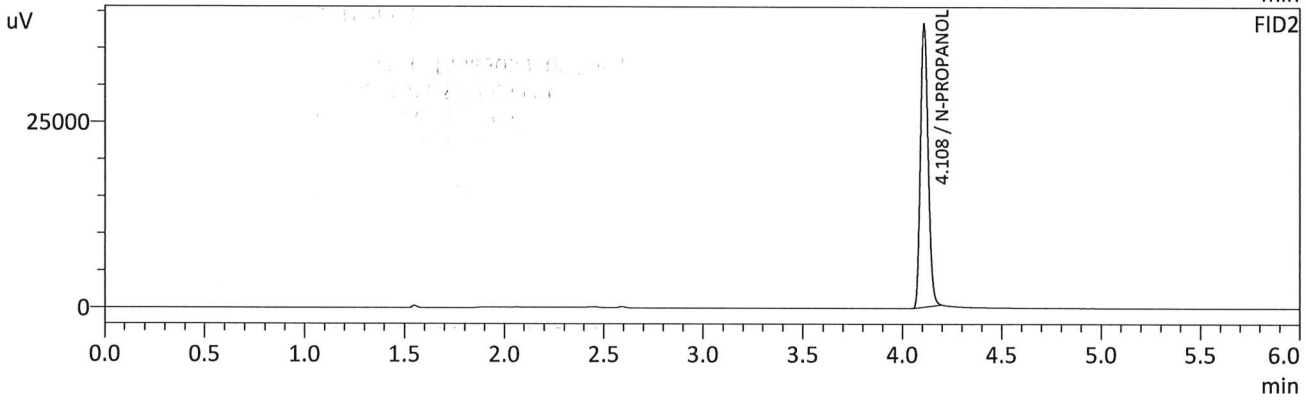
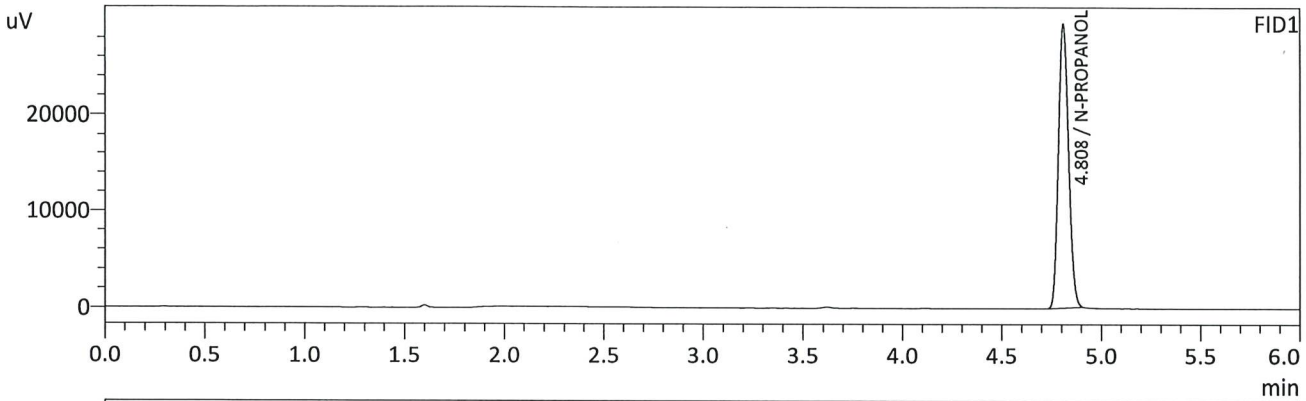
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.5003	g/100cc	190290	79915
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	149869	42116
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.5015	g/100cc	192218	94207
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	147909	55135
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

*RC*

Sample Name : INT STD BLK 1  
 Vial # : 6  
 Data Filename : INT STD BLK 1\_12282023\_006.gcd  
 Method Filename : ALCOHOL\_122823\_RC.gcm  
 Batch Filename : BATCH\_122823\_RC.gcb  
 Date Acquired : 12/28/2023 5:10:31 PM  
 Date Processed : 12/28/2023 5:16:32 PM  
 Default Project - G1KG333-Instrument1 - ALCOHOL\_122823\_RC.gcm



FID1

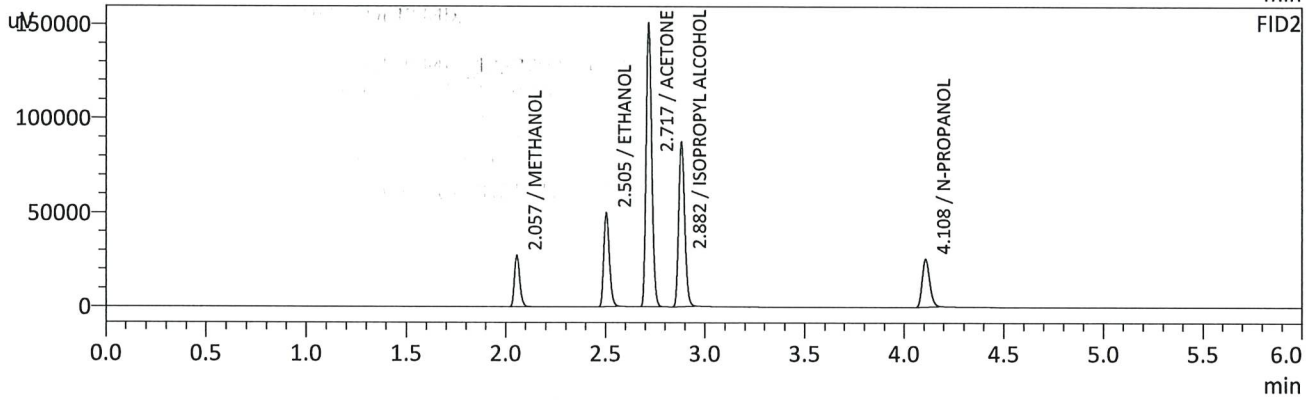
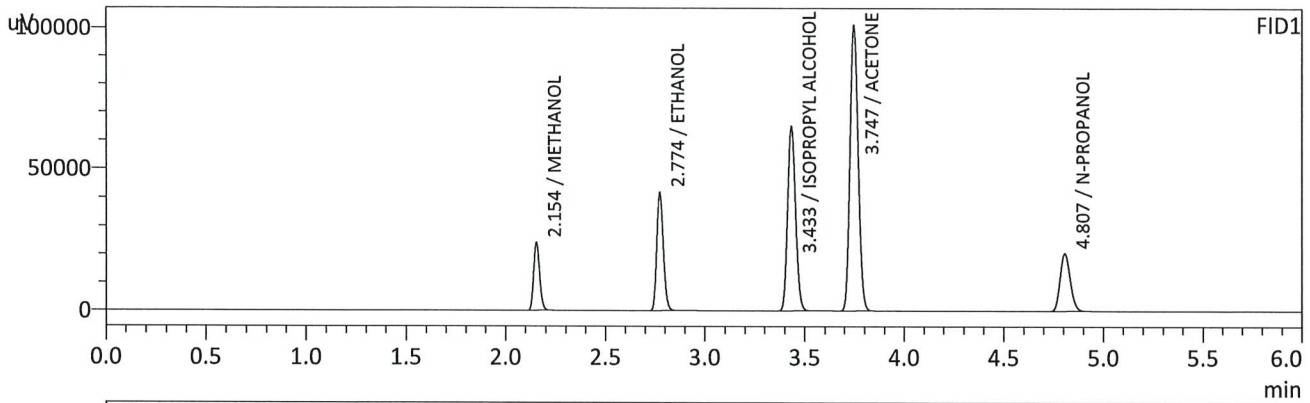
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	103818	29371
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

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	102171	38181
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

*CAC*

Sample Name : MULTI-COMP MIX  
 Vial # : 7  
 Data Filename : MULTI-COMP MIX\_12282023\_007.gcd  
 Method Filename : ALCOHOL\_122823\_RC.gcm  
 Batch Filename : BATCH\_122823\_RC.gcb  
 Date Acquired : 12/28/2023 5:20:15 PM  
 Date Processed : 12/28/2023 5:26:18 PM  
 Default Project - G1KG333-Instrument1 - ALCOHOL\_122823\_RC.gcm



FID1

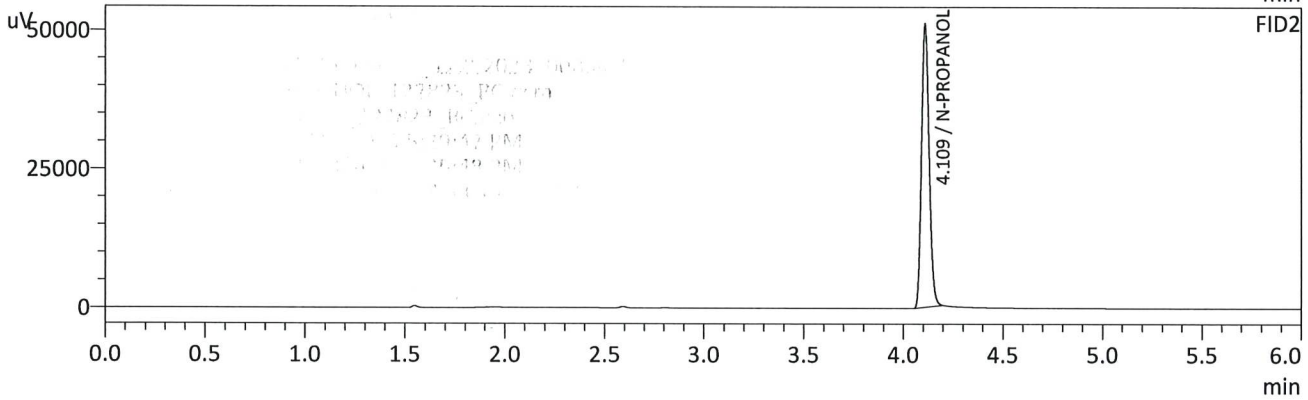
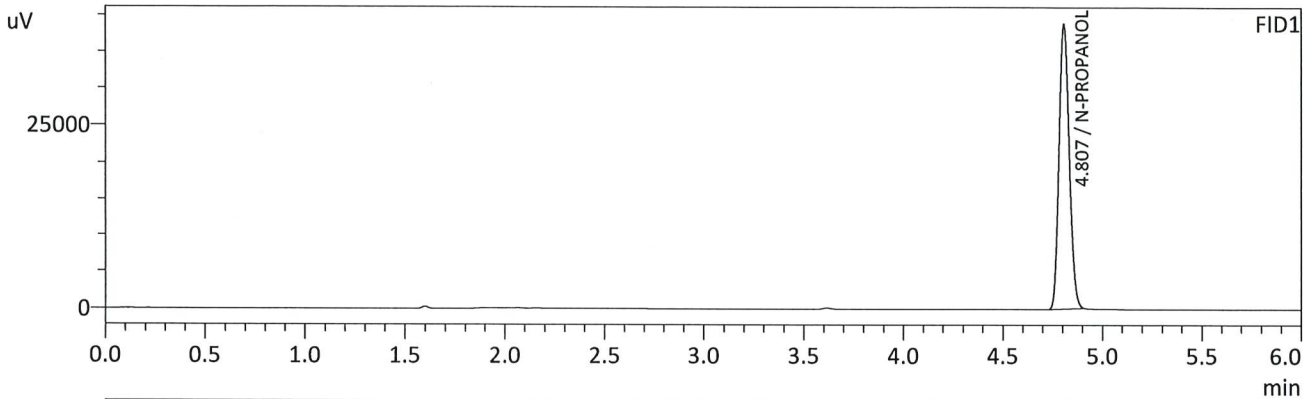
Name	Conc.	Unit	Area	Height
METHANOL	0.0000	g/100cc	49184	24118
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.5327	g/100cc	96223	41561
ISOPROPYL ALCOHOL	0.0000	g/100cc	180172	64886
ACETONE	0.0000	g/100cc	287614	100497
N-PROPANOL	0.0000	g/100cc	71159	20341
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	0.0000	g/100cc	50659	27081
ETHANOL	0.5655	g/100cc	97711	49785
ACETONE	0.0000	g/100cc	297621	149498
ISOPROPYL ALCOHOL	0.0000	g/100cc	180970	87240
N-PROPANOL	0.0000	g/100cc	66532	25419
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

*Handwritten signature/initials in blue ink.*

Sample Name : INT STD BLK 2  
 Vial # : 8  
 Data Filename : INT STD BLK 2\_12282023\_008.gcd  
 Method Filename : ALCOHOL\_122823\_RC.gcm  
 Batch Filename : BATCH\_122823\_RC.gcb  
 Date Acquired : 12/28/2023 5:29:47 PM  
 Date Processed : 12/28/2023 5:35:48 PM  
 Default Project - G1KG333-Instrument1 - ALCOHOL\_122823\_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	137786	38716
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	135832	51055
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

*RC*



VOLATILES DETERMINATION CASEFILE WORKSHEET

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: QC1-1		Analysis Date(s): 12/28/2023 5:39:04 PM(-07:00)				
	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0815	0.0829	0.0014	0.0822	0.0002	0.0821
(g/100cc)	0.0813	0.0827	0.0014	0.0820		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

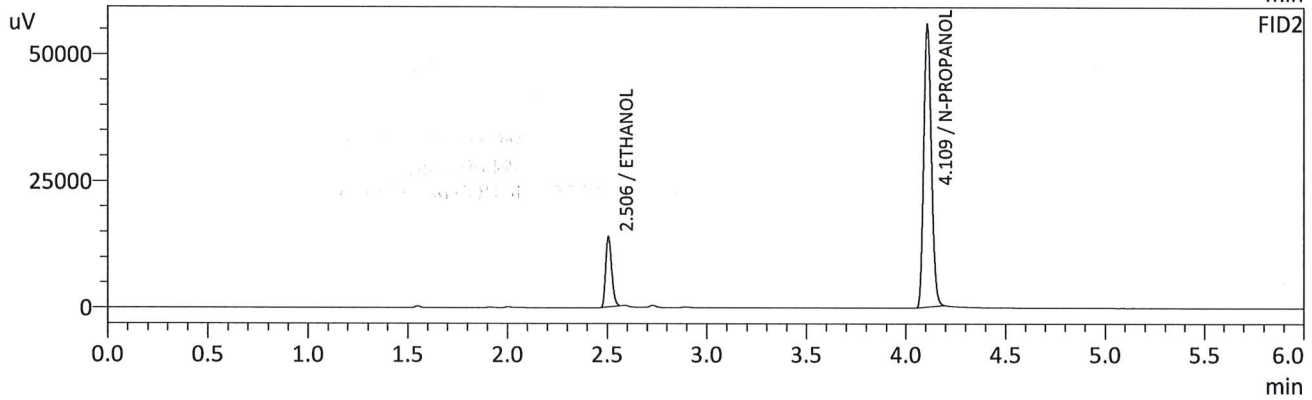
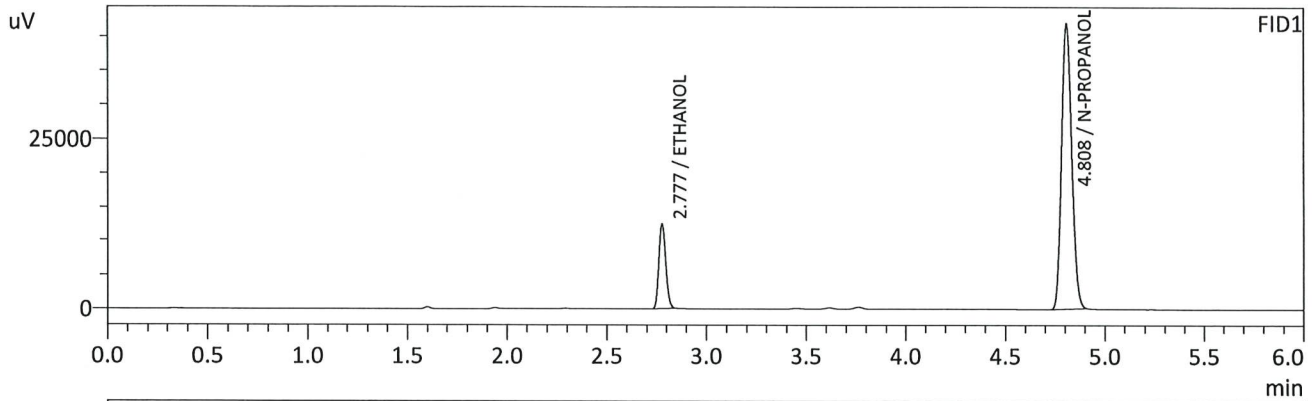
Refer To Instrument Method: ALCOHOL\_122823\_RC.gcm

Reporting of Results	Uncertainty of Measurements (UM%): 5.00%		
Overall Mean (g/100cc)	Low	High	5 % of Mean
0.082	0.077	0.087	0.005

	Reported Results	
FID A	0.082	

Calibration and control data are stored centrally.

Sample Name : QC1-1  
 Vial # : 9  
 Data Filename : QC1-1\_12282023\_009.gcd  
 Method Filename : ALCOHOL\_122823\_RC.gcm  
 Batch Filename : BATCH\_122823\_RC.gcb  
 Date Acquired : 12/28/2023 5:39:04 PM  
 Date Processed : 12/28/2023 5:45:06 PM  
 Default Project - G1KG333-Instrument1 - ALCOHOL\_122823\_RC.gcm



FID1

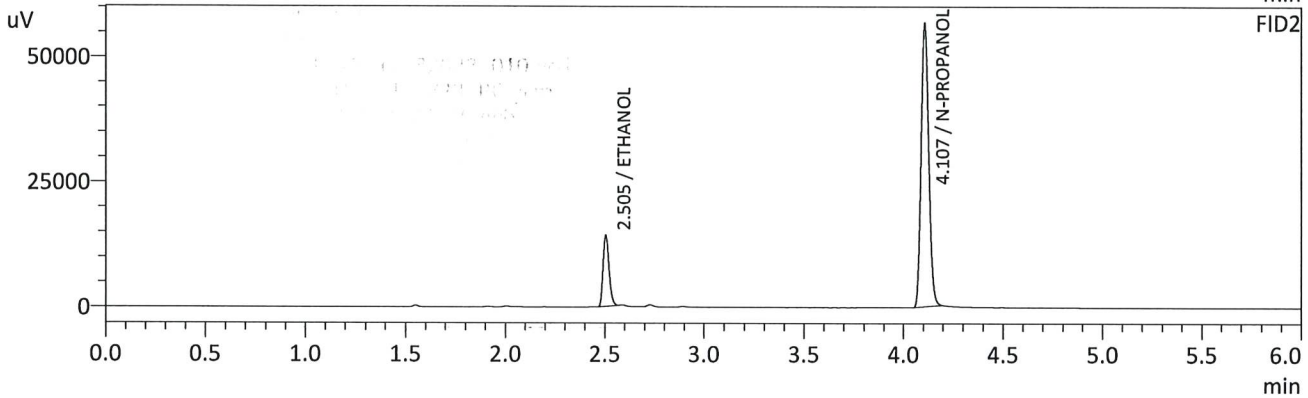
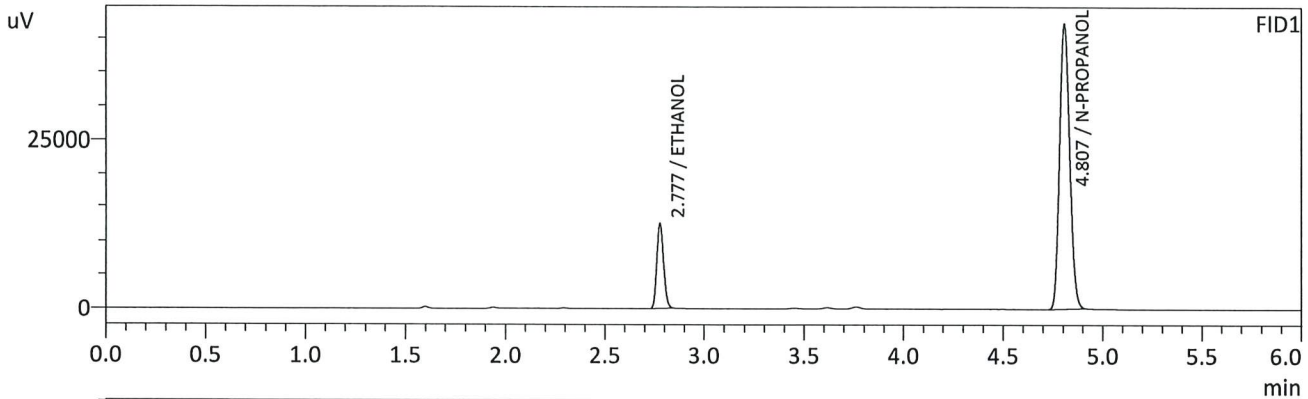
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0815	g/100cc	29930	12345
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	148422	41782
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0829	g/100cc	28753	13817
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	148719	55797
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

*CAC*

Sample Name : QC1-1-B  
 Vial # : 10  
 Data Filename : QC1-1-B\_12282023\_010.gcd  
 Method Filename : ALCOHOL\_122823\_RC.gcm  
 Batch Filename : BATCH\_122823\_RC.gcb  
 Date Acquired : 12/28/2023 5:48:49 PM  
 Date Processed : 12/28/2023 5:54:51 PM  
 Default Project - G1KG333-Instrument1 - ALCOHOL\_122823\_RC.gcm



FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0813	g/100cc	30118	12431
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	149765	42097
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0827	g/100cc	29145	14126
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	151081	56130
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

*RC*

VOLATILES DETERMINATION CASEFILE WORKSHEET

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: 0.08 QA		Analysis Date(s): 12/28/2023 5:58:20 PM(-07:00)				
	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0810	0.0825	0.0015	0.0817	0.0006	0.0820
(g/100cc)	0.0812	0.0835	0.0023	0.0823		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

Refer To Instrument Method: ALCOHOL\_122823\_RC.gcm

Reporting of Results	Uncertainty of Measurements (UM%): 5.00%		
Overall Mean (g/100cc)	Low	High	5 % of Mean
0.082	0.077	0.087	0.005

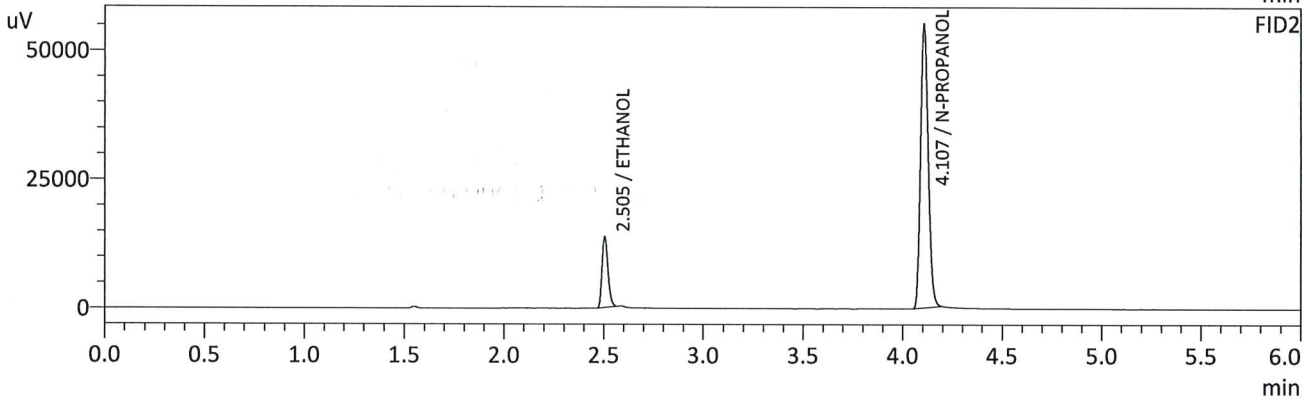
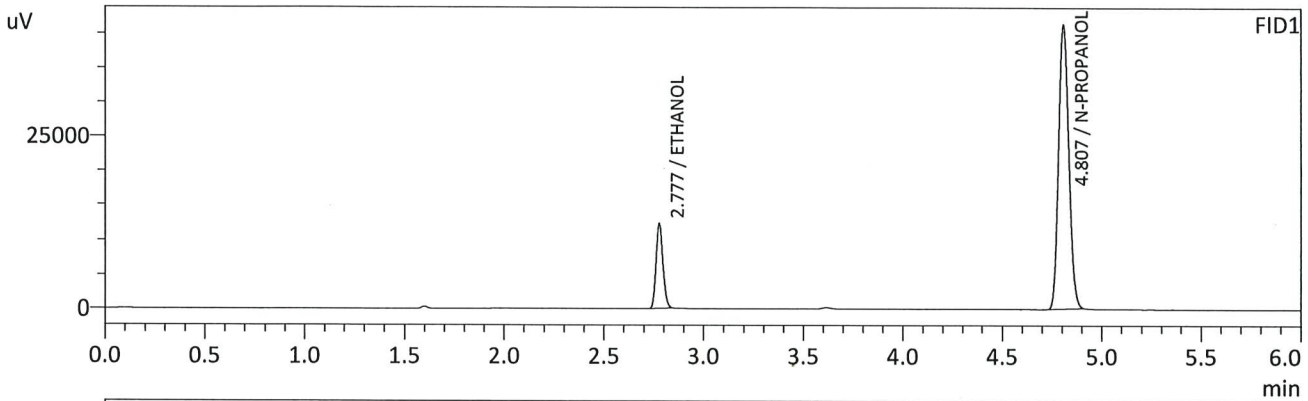
	Reported Results
	0.082

Calibration and control data are stored centrally.

RC



Sample Name : 0.08 QA  
 Vial # : 11  
 Data Filename : 0.08 QA\_12282023\_011.gcd  
 Method Filename : ALCOHOL\_122823\_RC.gcm  
 Batch Filename : BATCH\_122823\_RC.gcb  
 Date Acquired : 12/28/2023 5:58:20 PM  
 Date Processed : 12/28/2023 6:04:21 PM  
 Default Project - G1KG333-Instrument1 - ALCOHOL\_122823\_RC.gcm



FID1

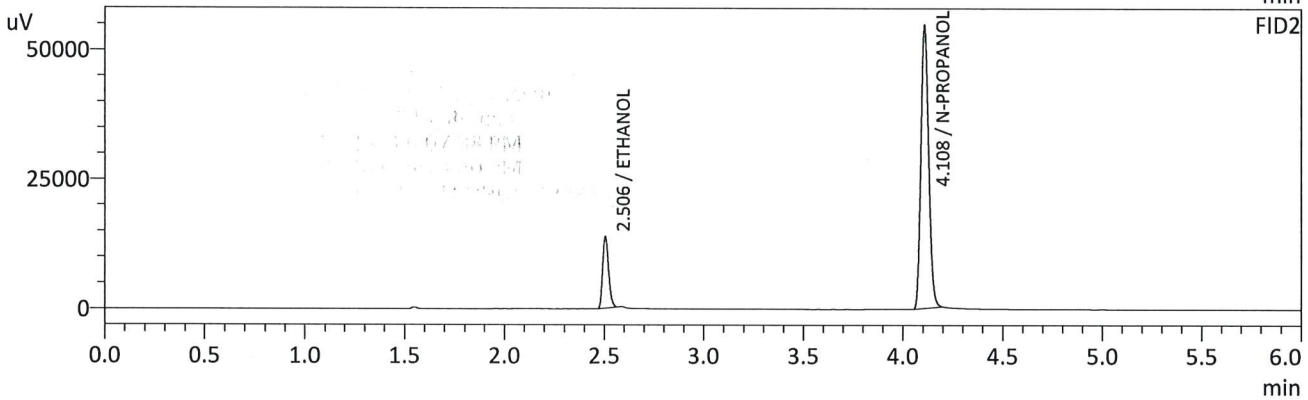
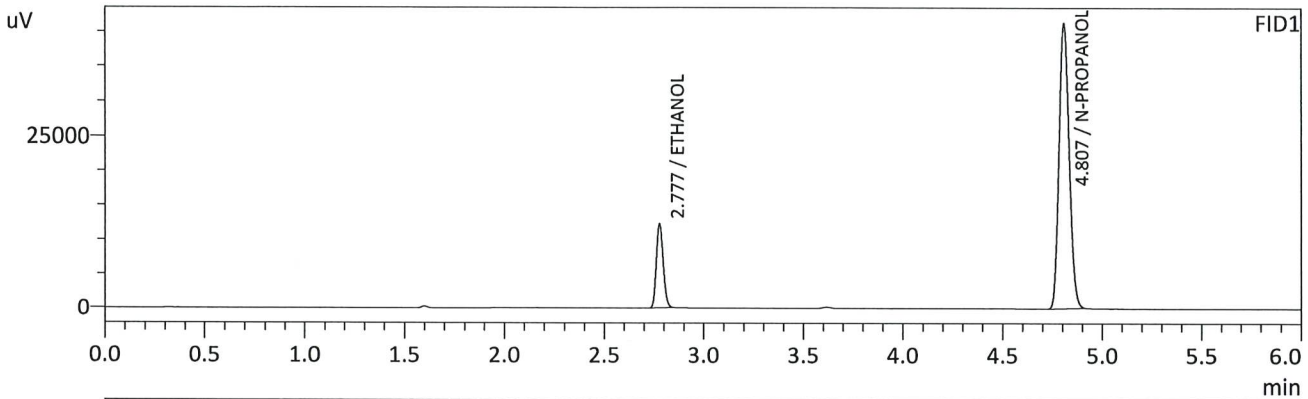
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0810	g/100cc	29468	12144
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	146994	41178
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0825	g/100cc	28322	13676
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	147256	54668
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

*CAC*

Sample Name : 0.08 QA - B  
 Vial # : 12  
 Data Filename : 0.08 QA - B\_12282023\_012.gcd  
 Method Filename : ALCOHOL\_122823\_RC.gcm  
 Batch Filename : BATCH\_122823\_RC.gcb  
 Date Acquired : 12/28/2023 6:07:38 PM  
 Date Processed : 12/28/2023 6:13:40 PM  
 Default Project - G1KG333-Instrument1 - ALCOHOL\_122823\_RC.gcm



FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0812	g/100cc	29441	12118
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	146582	41083
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0835	g/100cc	28455	13663
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	146016	54516
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

*CAC*

VOLATILES DETERMINATION CASEFILE WORKSHEET

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: QC2-1		Analysis Date(s): 12/28/2023 9:08:44 PM(-07:00)				
	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.2062	0.2137	0.0075	0.2099	0.0006	0.2102
(g/100cc)	0.2073	0.2137	0.0064	0.2105		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

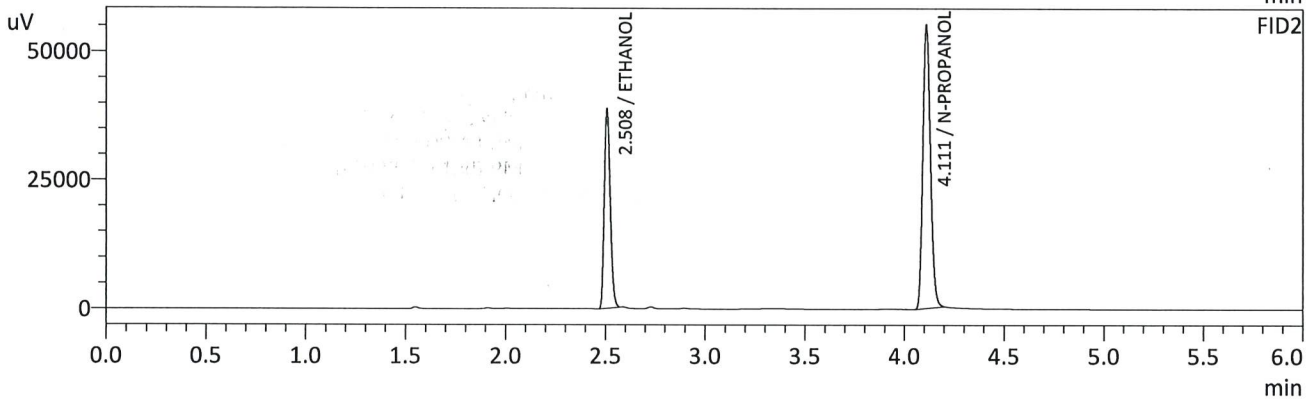
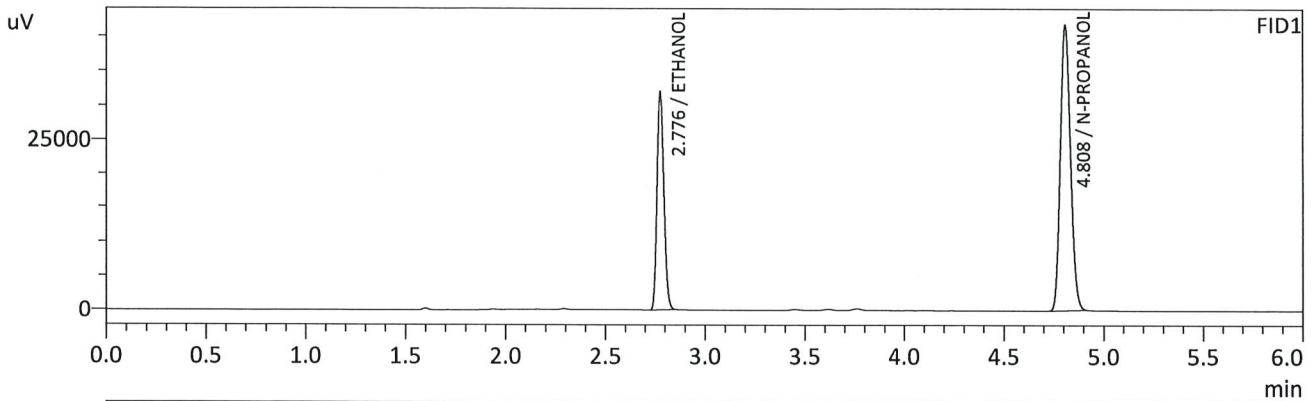
Refer To Instrument Method: ALCOHOL\_122823\_RC.gcm

Reporting of Results	Uncertainty of Measurements (UM%): 5.00%		
Overall Mean (g/100cc)	Low	High	5 % of Mean
0.210	0.199	0.221	0.011

	Reported Results
0.210	0.210

Calibration and control data are stored centrally.

Sample Name : QC2-1  
 Vial # : 31  
 Data Filename : QC2-1\_12282023\_031.gcd  
 Method Filename : ALCOHOL\_122823\_RC.gcm  
 Batch Filename : BATCH\_122823\_RC.gcb  
 Date Acquired : 12/28/2023 9:08:44 PM  
 Date Processed : 12/28/2023 9:14:45 PM  
 Default Project - G1KG333-Instrument1 - ALCOHOL\_122823\_RC.gcm



FID1

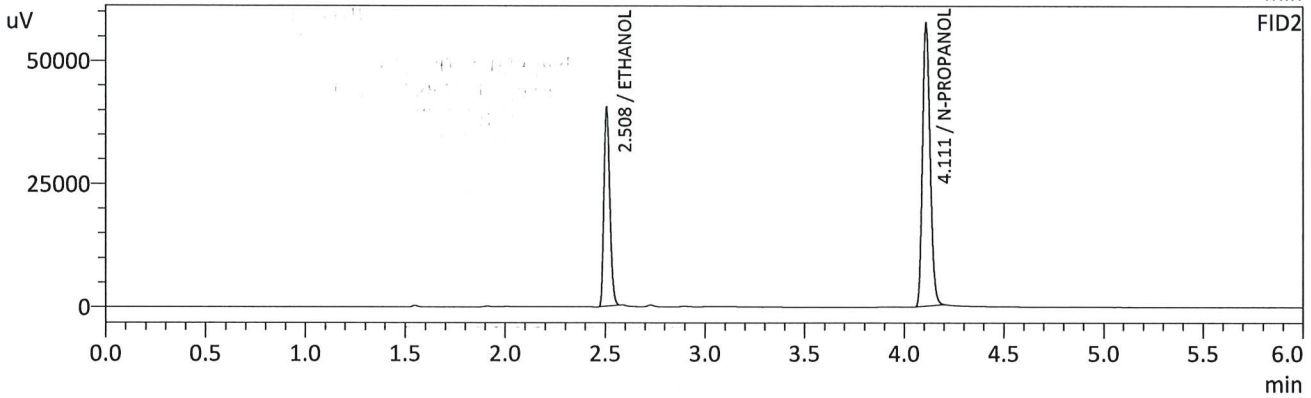
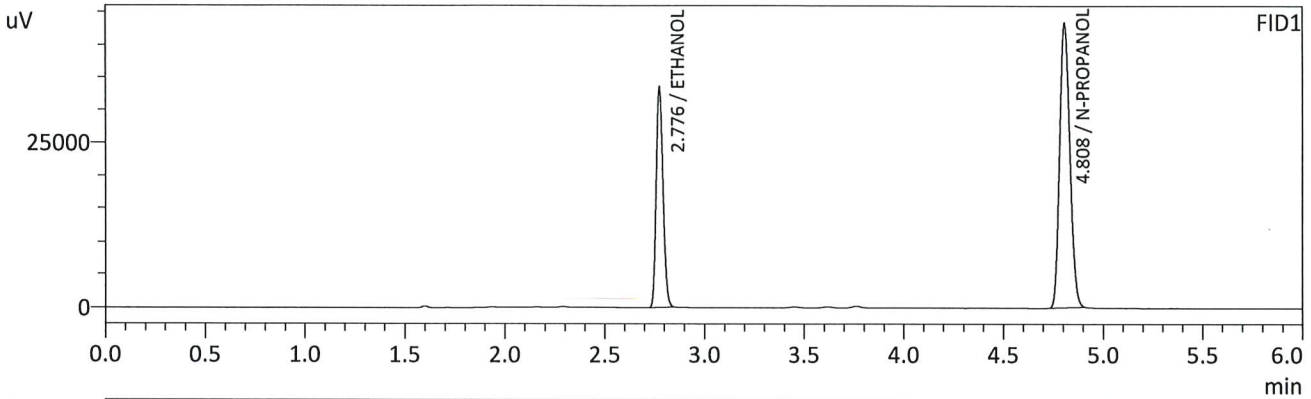
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.2062	g/100cc	76810	31803
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	147816	41713
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.2137	g/100cc	78956	38753
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	146490	54846
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

*Handwritten signature/initials*

Sample Name : QC2-1-B  
 Vial # : 32  
 Data Filename : QC2-1-B\_12282023\_032.gcd  
 Method Filename : ALCOHOL\_122823\_RC.gcm  
 Batch Filename : BATCH\_122823\_RC.gcb  
 Date Acquired : 12/28/2023 9:18:17 PM  
 Date Processed : 12/28/2023 9:24:17 PM  
 Default Project - G1KG333-Instrument1 - ALCOHOL\_122823\_RC.gcm



FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.2073	g/100cc	80335	33279
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	153778	43299
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.2137	g/100cc	82413	40365
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	152913	57346
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

*Handwritten signature/initials in blue ink.*



VOLATILES DETERMINATION CASEFILE WORKSHEET

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: QC1-2			Analysis Date(s): 12/29/2023 12:38:11 AM(-07:00)			
	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0876	0.0941	0.0065	0.0908	0.0011	0.0914
(g/100cc)	0.0886	0.0953	0.0067	0.0919		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

Refer To Instrument Method: ALCOHOL\_122823\_RC.gcm

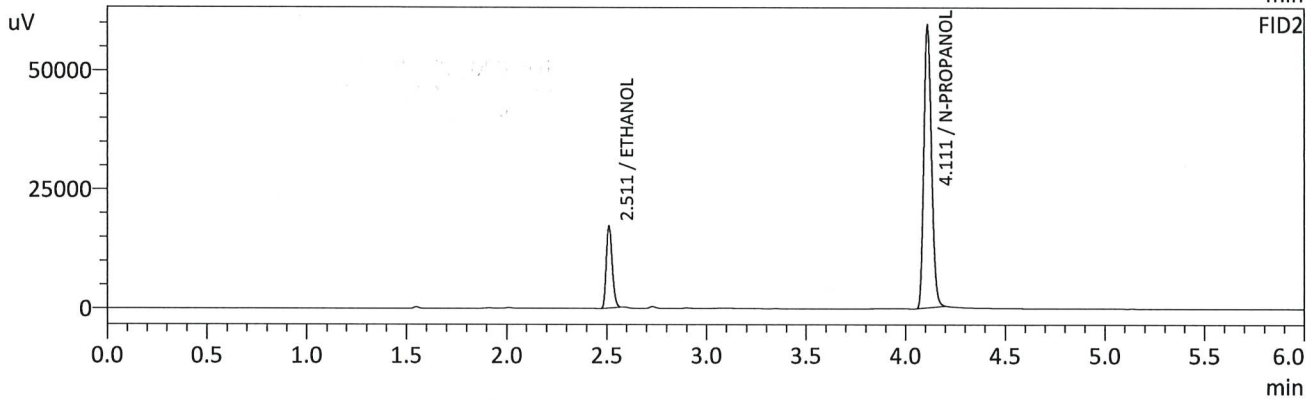
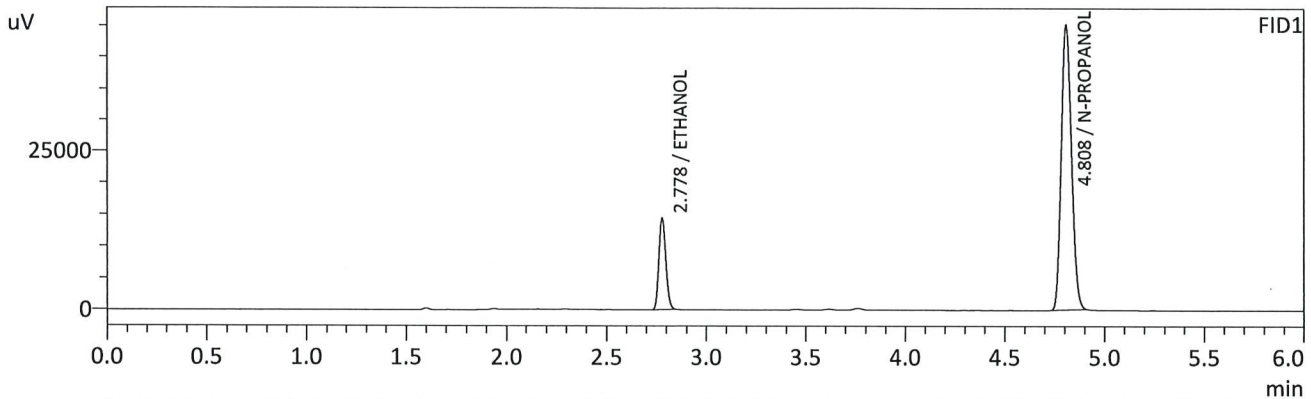
Reporting of Results	Uncertainty of Measurements (UM%): 5.00%		
Overall Mean (g/100cc)	Low	High	5 % of Mean
0.091	0.086	0.096	0.005

Reported Results	
0.091	

Calibration and control data are stored centrally.

AC

Sample Name : QC1-2  
 Vial # : 53  
 Data Filename : QC1-2\_12282023\_053.gcd  
 Method Filename : ALCOHOL\_122823\_RC.gcm  
 Batch Filename : BATCH\_122823\_RC.gcb  
 Date Acquired : 12/29/2023 12:38:11 AM  
 Date Processed : 12/29/2023 12:44:13 AM  
 Default Project - G1KG333-Instrument1 - ALCOHOL\_122823\_RC.gcm



FID1

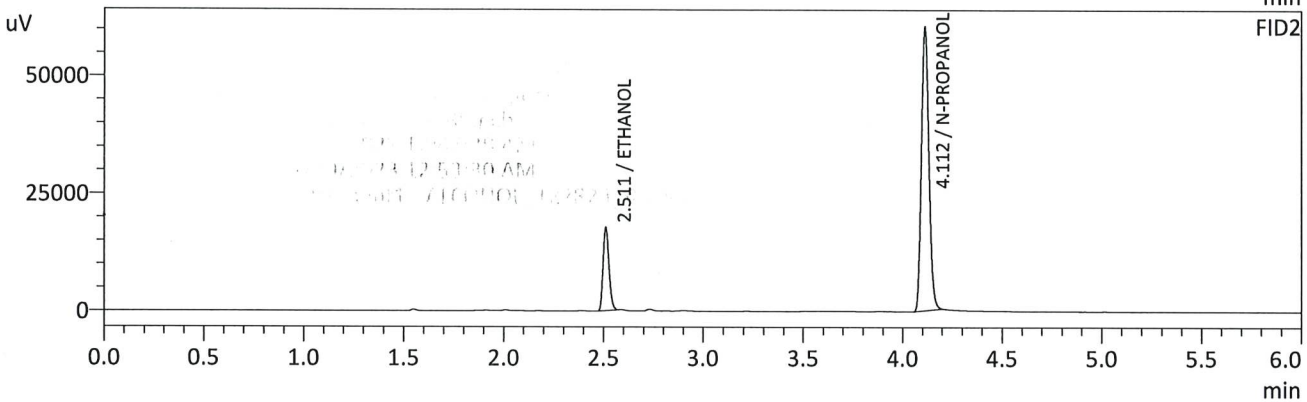
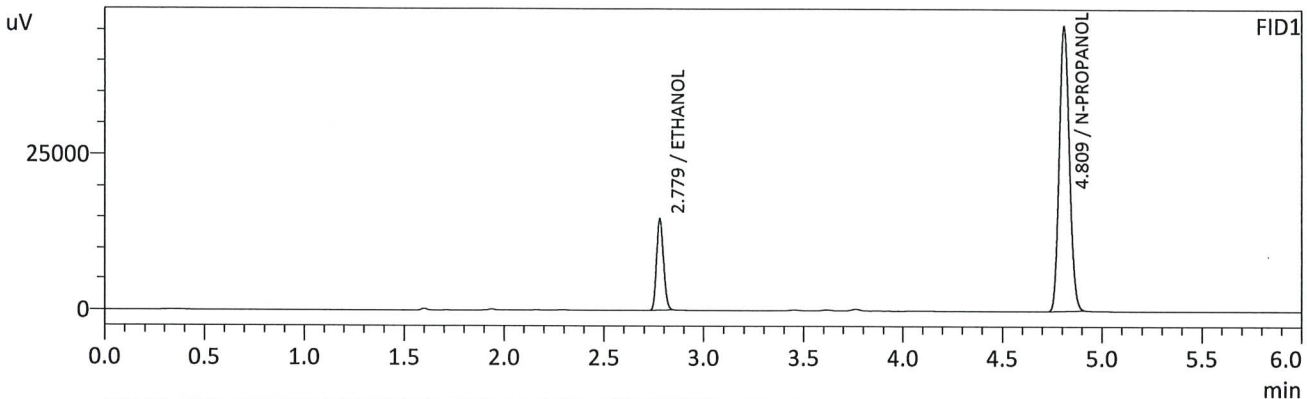
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0876	g/100cc	34613	14353
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	159259	45072
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0941	g/100cc	35236	17058
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	158025	59244
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

*RC*

Sample Name : QC1-2-B  
 Vial # : 54  
 Data Filename : QC1-2-B\_12282023\_054.gcd  
 Method Filename : ALCOHOL\_122823\_RC.gcm  
 Batch Filename : BATCH\_122823\_RC.gcb  
 Date Acquired : 12/29/2023 12:47:28 AM  
 Date Processed : 12/29/2023 12:53:30 AM  
 Default Project - G1KG333-Instrument1 - ALCOHOL\_122823\_RC.gcm



FID1

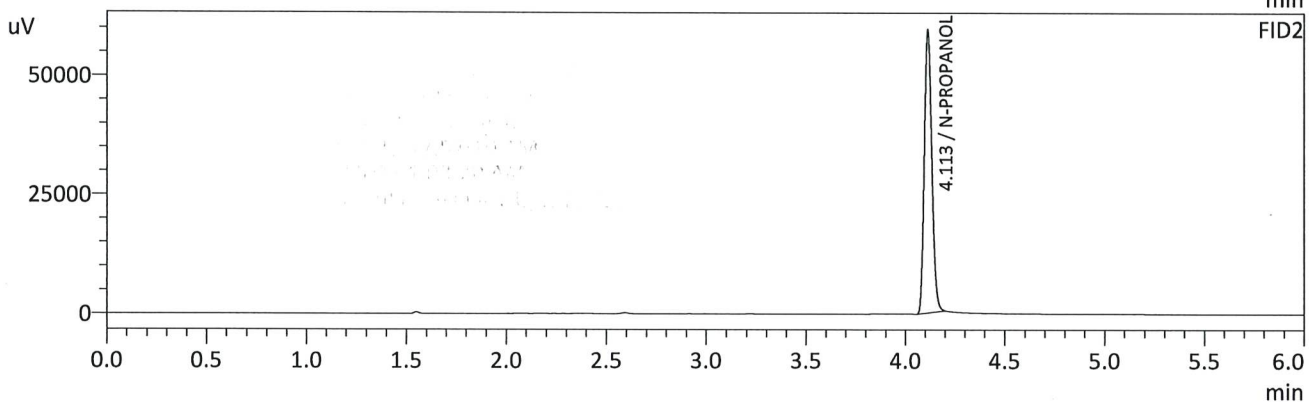
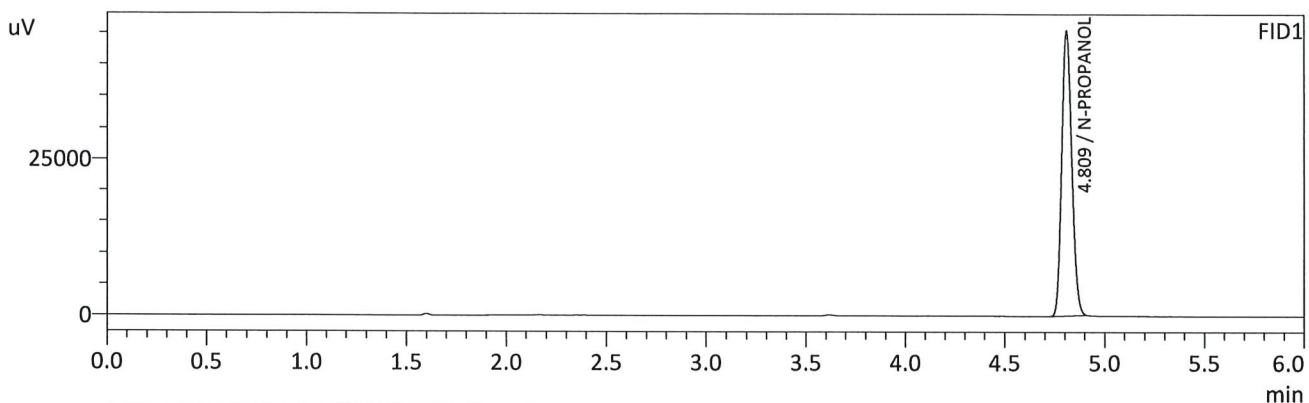
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0886	g/100cc	35535	14718
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	161653	45724
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0953	g/100cc	36229	17499
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	160170	60149
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

*RC*

Sample Name : INT STD BLK 3  
 Vial # : 55  
 Data Filename : INT STD BLK 3\_12282023\_055.gcd  
 Method Filename : ALCOHOL\_122823\_RC.gcm  
 Batch Filename : BATCH\_122823\_RC.gcb  
 Date Acquired : 12/29/2023 12:57:19 AM  
 Date Processed : 12/29/2023 1:03:20 AM  
 Default Project - G1KG333-Instrument1 - ALCOHOL\_122823\_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	160484	45419
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	157727	59338
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

*ARC*



# 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

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Vial#	Sample Name	Sample Type	Method File	Data File	Level#
1	0.050	1:Standard:(R)	ALCOHOL_122823_RC.gcm		1
2	0.100	1:Standard:(R)	ALCOHOL_122823_RC.gcm		2
3	0.200	1:Standard:(R)	ALCOHOL_122823_RC.gcm		3
4	0.300	1:Standard:(R)	ALCOHOL_122823_RC.gcm		4
5	0.500	1:Standard:(R)	ALCOHOL_122823_RC.gcm		5
6	INT STD BLK 1	0:Unknown	ALCOHOL_122823_RC.gcm		0
7	MULTI-COMP MIX	0:Unknown	ALCOHOL_122823_RC.gcm		1
8	INT STD BLK 2	0:Unknown	ALCOHOL_122823_RC.gcm		0
9	QC1-1	0:Unknown	ALCOHOL_122823_RC.gcm		0
10	QC1-1-B	0:Unknown	ALCOHOL_122823_RC.gcm		0
11	0.08 QA	0:Unknown	ALCOHOL_122823_RC.gcm		0
12	0.08 QA - B	0:Unknown	ALCOHOL_122823_RC.gcm		0
13	P2023-3720-1	0:Unknown	ALCOHOL_122823_RC.gcm		0
14	P2023-3720-1-B	0:Unknown	ALCOHOL_122823_RC.gcm		0
15	P2023-3746-1	0:Unknown	ALCOHOL_122823_RC.gcm		0
16	P2023-3746-1-B	0:Unknown	ALCOHOL_122823_RC.gcm		0
17	P2023-3747-1	0:Unknown	ALCOHOL_122823_RC.gcm		0
18	P2023-3747-1-B	0:Unknown	ALCOHOL_122823_RC.gcm		0
19	P2023-3748-1	0:Unknown	ALCOHOL_122823_RC.gcm		0
20	P2023-3748-1-B	0:Unknown	ALCOHOL_122823_RC.gcm		0
21	P2023-3761-1	0:Unknown	ALCOHOL_122823_RC.gcm		0
22	P2023-3761-1-B	0:Unknown	ALCOHOL_122823_RC.gcm		0
23	P2023-3766-1	0:Unknown	ALCOHOL_122823_RC.gcm		0
24	P2023-3766-1-B	0:Unknown	ALCOHOL_122823_RC.gcm		0
25	P2023-3769-1	0:Unknown	ALCOHOL_122823_RC.gcm		0
26	P2023-3769-1-B	0:Unknown	ALCOHOL_122823_RC.gcm		0
* 27	P2023-3770-1	0:Unknown	ALCOHOL_122823_RC.gcm		0
* 28	P2023-3770-1-B	0:Unknown	ALCOHOL_122823_RC.gcm		0
* 29	P2023-3771-1	0:Unknown	ALCOHOL_122823_RC.gcm		0
* 30	P2023-3771-1-B	0:Unknown	ALCOHOL_122823_RC.gcm		0
31	QC2-1	0:Unknown	ALCOHOL_122823_RC.gcm		0
32	QC2-1-B	0:Unknown	ALCOHOL_122823_RC.gcm		0
33	P2023-3772-1	0:Unknown	ALCOHOL_122823_RC.gcm		0
34	P2023-3772-1-B	0:Unknown	ALCOHOL_122823_RC.gcm		0
35	P2023-3773-1	0:Unknown	ALCOHOL_122823_RC.gcm		0
36	P2023-3773-1-B	0:Unknown	ALCOHOL_122823_RC.gcm		0
37	P2023-3774-1	0:Unknown	ALCOHOL_122823_RC.gcm		0
38	P2023-3774-1-B	0:Unknown	ALCOHOL_122823_RC.gcm		0
39	M2023-4964-2	0:Unknown	ALCOHOL_122823_RC.gcm		0
40	M2023-4964-2-B	0:Unknown	ALCOHOL_122823_RC.gcm		0
41	M2023-4769-2	0:Unknown	ALCOHOL_122823_RC.gcm		0
42	M2023-4769-2-B	0:Unknown	ALCOHOL_122823_RC.gcm		0
43	P2023-3802-1	0:Unknown	ALCOHOL_122823_RC.gcm		0
44	P2023-3802-1-B	0:Unknown	ALCOHOL_122823_RC.gcm		0
45	P2023-3818-1	0:Unknown	ALCOHOL_122823_RC.gcm		0
46	P2023-3818-1-B	0:Unknown	ALCOHOL_122823_RC.gcm		0
* 47	P2023-3821-1	0:Unknown	ALCOHOL_122823_RC.gcm		0
* 48	P2023-3821-1-B	0:Unknown	ALCOHOL_122823_RC.gcm		0
49	P2023-3826-1	0:Unknown	ALCOHOL_122823_RC.gcm		0
50	P2023-3826-1-B	0:Unknown	ALCOHOL_122823_RC.gcm		0
* 51	P2023-3832-1	0:Unknown	ALCOHOL_122823_RC.gcm		0
* 52	P2023-3832-1-B	0:Unknown	ALCOHOL_122823_RC.gcm		0
53	QC1-2	0:Unknown	ALCOHOL_122823_RC.gcm		0
54	QC1-2-B	0:Unknown	ALCOHOL_122823_RC.gcm		0
55	INT STD BLK 3	0:Unknown	ALCOHOL_122823_RC.gcm		0

\* Will run again in another batch. Column precision  
out of tolerance. RC 12/29/23

RC



# 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

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Vial#	Sample Name	Sample Type	Method File	Data File	Level#
1	0.050	1:Standard:(R)	ALCOHOL_122623_RC.gcm		1
2	0.100	1:Standard:(R)	ALCOHOL_122623_RC.gcm		2
3	0.200	1:Standard:(R)	ALCOHOL_122623_RC.gcm		3
4	0.300	1:Standard:(R)	ALCOHOL_122623_RC.gcm		4
5	0.500	1:Standard:(R)	ALCOHOL_122623_RC.gcm		5
6	INT STD BLK 1	0:Unknown	ALCOHOL_122623_RC.gcm		0
7	MULTI-COMP MIX	0:Unknown	ALCOHOL_122623_RC.gcm		1
8	INT STD BLK 2	0:Unknown	ALCOHOL_122623_RC.gcm		0
9	QC1-1	0:Unknown	ALCOHOL_122623_RC.gcm		0
10	QC1-1-B	0:Unknown	ALCOHOL_122623_RC.gcm		0
11	0.08 QA	0:Unknown	ALCOHOL_122623_RC.gcm		0
12	0.08 QA - B	0:Unknown	ALCOHOL_122623_RC.gcm		0
13	P2023-3720-1	0:Unknown	ALCOHOL_122623_RC.gcm		0
14	P2023-3720-1-B	0:Unknown	ALCOHOL_122623_RC.gcm		0
15	P2023-3746-1	0:Unknown	ALCOHOL_122623_RC.gcm		0
16	P2023-3746-1-B	0:Unknown	ALCOHOL_122623_RC.gcm		0
17	P2023-3747-1	0:Unknown	ALCOHOL_122623_RC.gcm		0
18	P2023-3747-1-B	0:Unknown	ALCOHOL_122623_RC.gcm		0
19	P2023-3748-1	0:Unknown	ALCOHOL_122623_RC.gcm		0
20	P2023-3748-1-B	0:Unknown	ALCOHOL_122623_RC.gcm		0
21	P2023-3761-1	0:Unknown	ALCOHOL_122623_RC.gcm		0
22	P2023-3761-1-B	0:Unknown	ALCOHOL_122623_RC.gcm		0
23	P2023-3766-1	0:Unknown	ALCOHOL_122623_RC.gcm		0
24	P2023-3766-1-B	0:Unknown	ALCOHOL_122623_RC.gcm		0
25	P2023-3769-1	0:Unknown	ALCOHOL_122623_RC.gcm		0
26	P2023-3769-1-B	0:Unknown	ALCOHOL_122623_RC.gcm		0
27	P2023-3770-1	0:Unknown	ALCOHOL_122623_RC.gcm		0
28	P2023-3770-1-B	0:Unknown	ALCOHOL_122623_RC.gcm		0
29	P2023-3771-1	0:Unknown	ALCOHOL_122623_RC.gcm		0
30	P2023-3771-1-B	0:Unknown	ALCOHOL_122623_RC.gcm		0
* 31	QC2-1	0:Unknown	ALCOHOL_122623_RC.gcm		0
32	QC2-1-B	0:Unknown	ALCOHOL_122623_RC.gcm		0
33	P2023-3772-1	0:Unknown	ALCOHOL_122623_RC.gcm		0
34	P2023-3772-1-B	0:Unknown	ALCOHOL_122623_RC.gcm		0
35	P2023-3773-1	0:Unknown	ALCOHOL_122623_RC.gcm		0
36	P2023-3773-1-B	0:Unknown	ALCOHOL_122623_RC.gcm		0
37	P2023-3774-1	0:Unknown	ALCOHOL_122623_RC.gcm		0
38	P2023-3774-1-B	0:Unknown	ALCOHOL_122623_RC.gcm		0
39	M2023-4964-2	0:Unknown	ALCOHOL_122623_RC.gcm		0
40	M2023-4964-2-B	0:Unknown	ALCOHOL_122623_RC.gcm		0
41	M2023-4769-2	0:Unknown	ALCOHOL_122623_RC.gcm		0
42	M2023-4769-2-B	0:Unknown	ALCOHOL_122623_RC.gcm		0
43	P2023-3802-1	0:Unknown	ALCOHOL_122623_RC.gcm		0
44	P2023-3802-1-B	0:Unknown	ALCOHOL_122623_RC.gcm		0
45	P2023-3818-1	0:Unknown	ALCOHOL_122623_RC.gcm		0
46	P2023-3818-1-B	0:Unknown	ALCOHOL_122623_RC.gcm		0
47	P2023-3821-1	0:Unknown	ALCOHOL_122623_RC.gcm		0
48	P2023-3821-1-B	0:Unknown	ALCOHOL_122623_RC.gcm		0
49	P2023-3826-1	0:Unknown	ALCOHOL_122623_RC.gcm		0
50	P2023-3826-1-B	0:Unknown	ALCOHOL_122623_RC.gcm		0
51	P2023-3832-1	0:Unknown	ALCOHOL_122623_RC.gcm		0
52	P2023-3832-1-B	0:Unknown	ALCOHOL_122623_RC.gcm		0
53	QC1-2	0:Unknown	ALCOHOL_122623_RC.gcm		0
54	QC1-2-B	0:Unknown	ALCOHOL_122623_RC.gcm		0
55	INT STD BLK 3	0:Unknown	ALCOHOL_122623_RC.gcm		0

*First run batch table.*

*\* Stopped run due to column precision being outside of tolerance. RC*

*RC*