

















APPROVED

By Stuart Jacobson at 4:01 pm, Mar 08, 2021

3/8/2021

Worklist: 4815

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
P2021-0168	1	BCK	Alcohol Analysis	
P2021-0194	1	BCK	Alcohol Analysis	
P2021-0201	1	BCK	Alcohol Analysis	
P2021-0202	1	BCK	Alcohol Analysis	
P2021-0237	1	BCK	Alcohol Analysis	
P2021-0237	2	BCK	Alcohol Analysis	
P2021-0237	3	BCK	Alcohol Analysis	
P2021-0239	1	BCK	Alcohol Analysis	
P2021-0287	1	BCK	Alcohol Analysis	
P2021-0365	2	BCK	Alcohol Analysis	
P2021-0370	1	BCK	Alcohol Analysis	
P2021-0443	1	BCK	BATS Proficiency Test	
P2021-0443	2	BCK	BATS Proficiency Test	
P2021-0443	3	BCK	BATS Proficiency Test	
P2021-0443	4	BCK	BATS Proficiency Test	
P2021-0569	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): 03/04/2021-03/05/2021

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Jul-23	1907006	0.0764	0.0688-0.0840	0.0753 g/100cc 0.0774 g/100cc g/100cc
Level 2	Jul-23	1907007	0.2170	0.1953-0.2387	0.2105 g/100cc g/100cc g/100cc
Multi-Component mixture:		Lot #	FN07101701		
Curve Fit:		Column 1	0.99996	Column2	0.99988

Ethanol Calibration Reference Material

Calibrator level	Target Value	Acceptable Range	Column 1	Column 2	Precision	Mean
50	0.050	0.045 - 0.055	0.0513	0.0527	0.0014	0.052
100	0.100	0.090 - 0.110	0.1001	0.1000	0.0001	0.1
200	0.200	0.180 - 0.220	0.1991	0.1981	0.0010	0.1986
300	0.300	0.270 - 0.330	0.2977	0.2964	0.0013	0.297
400	0.400	0.360 - 0.440			0	#DIV/0!
500	0.500	0.450 - 0.550	0.5014	0.5025	0.0011	0.5019

Aqueous Controls

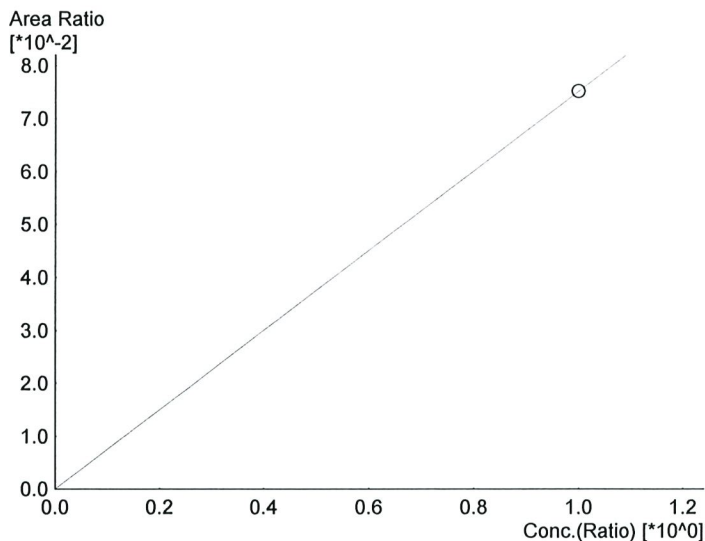
Control level	Target Value	Acceptable Range	Overall Results
80	0.080	0.076 - 0.084	0.081 g/100cc

TS

Calibration Table

Laboratory: Pocatello
Instrument Name : GC2030-HS20

<<Data File>>
Method File :C:\LabSolutions\Data\2021\030421_TS\ALCOHOL.gcm
Batch File :C:\LabSolutions\Data\2021\030421_TS\030421_TS_POST.gcb
Date Acquired :3/4/2021 2:06:44 PM
Date Created :3/4/2021 2:03:54 PM
Date Modified :3/6/2021 8:06:39 AM



Name : METHANOL
Detector Name: FID1
Function : $f(x)=0.0751564*x+0$
Linearity=1.000000
FitType: Linear
ZeroThrough: Not Through

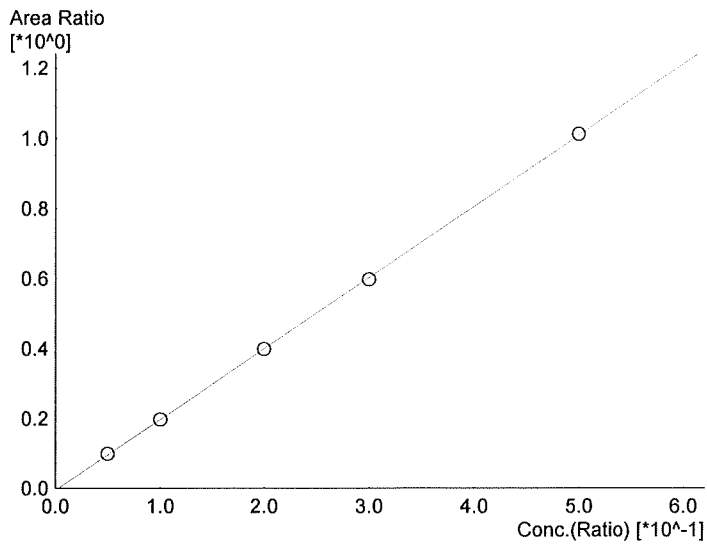
#	Conc.	Area	Std. Conc.
1	1.000	11934	1.0000



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

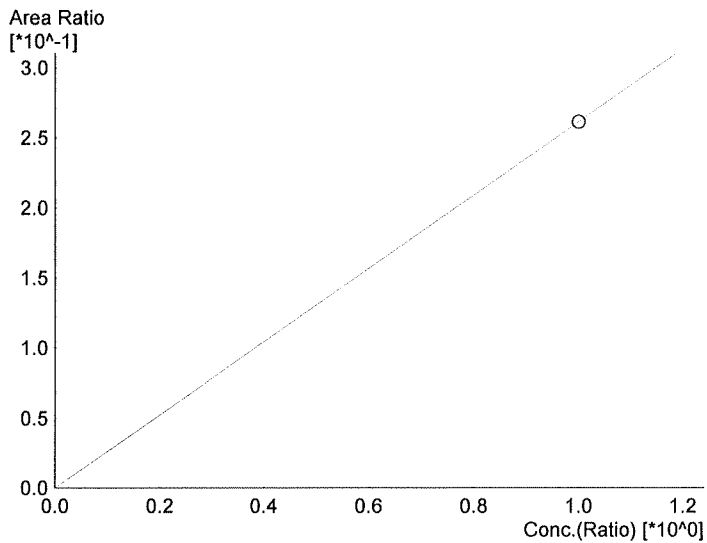
#	Conc.	Area	Std. Conc.
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B



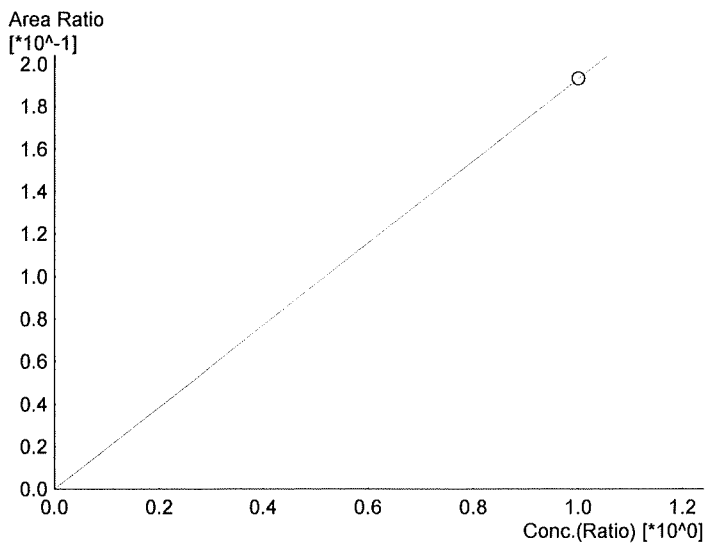
Name : ETHANOL
Detector Name: FID1
Function : $f(x)=2.02686*x-0.00564581$
Linearity=0.9999618 ✓
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
1	0.050	14461	0.0513
2	0.100	30193	0.1001
3	0.200	60961	0.1991
4	0.300	92575	0.2977
5	0.500	159948	0.5014



Name : ISOPROPYL ALCOHOL
Detector Name: FID1
Function : $f(x)=0.261307*x+0$
Linearity=1.000000
FitType: Linear
ZeroThrough: Not Through

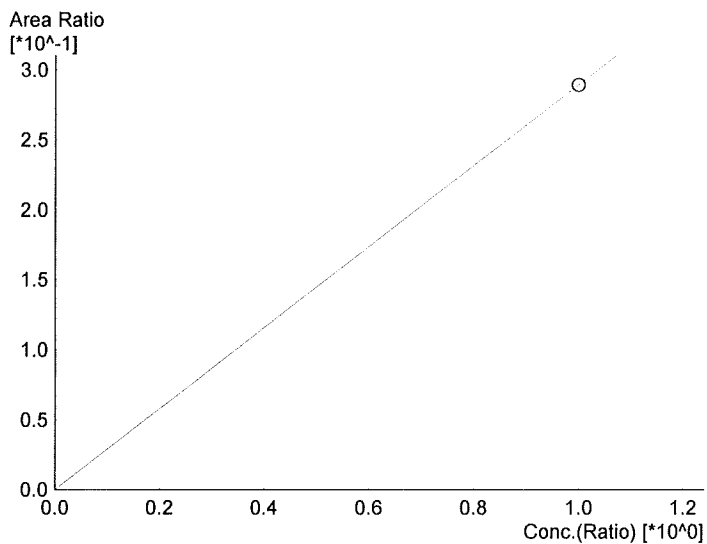
#	Conc.	Area	Std. Conc.
1	1.000	41493	1.0000



Name : ACETONE
Detector Name: FID1
Function : $f(x)=0.193151*x+0$
Linearity=1.000000
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
1	1.000	30671	1.0000

15



Name : DFE
Detector Name: FID1
Function : $f(x)=0.289255*x+0$
Linearity=1.000000
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
1	1.000	27050	1.0000



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

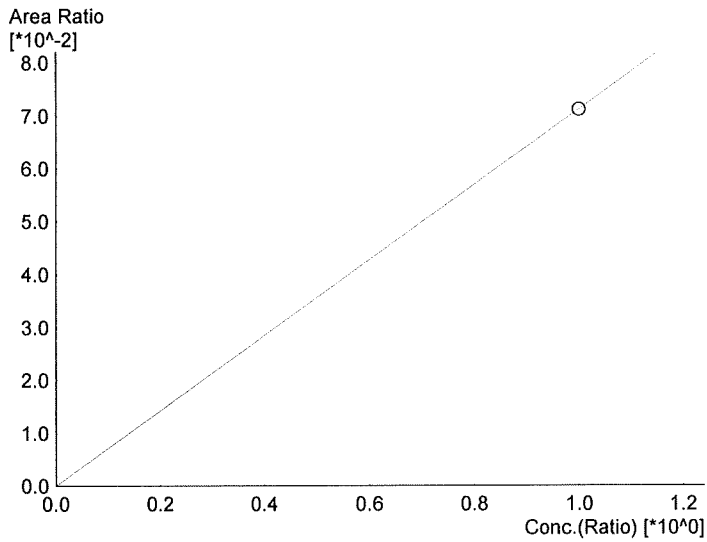
#	Conc.	Area	Std. Conc.
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Name : ACETALDEHYDE
Detector Name: FID2
Function : $f(x)=0*x+0$
Linearity=0
FitType: Linear
ZeroThrough: Not Through

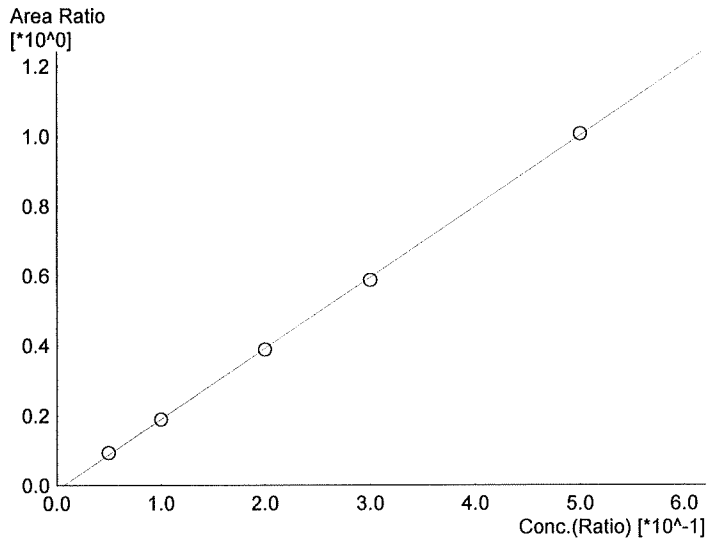
#	Conc.	Area	Std. Conc.
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10



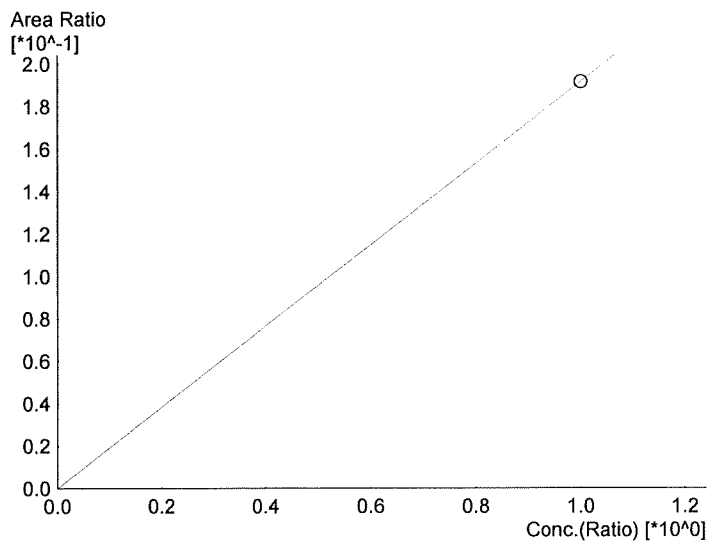
Name : METHANOL
 Detector Name: FID2
 Function : $f(x)=0.0711836*x+0$
 Linearity=1.000000
 FitType: Linear
 ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
1	1.000	12248	1.0000



Name : ETHANOL
 Detector Name: FID2
 Function : $f(x)=2.02910*x-0.0140364$
 Linearity=0.9998816 ✓
 FitType: Linear
 ZeroThrough: Not Through

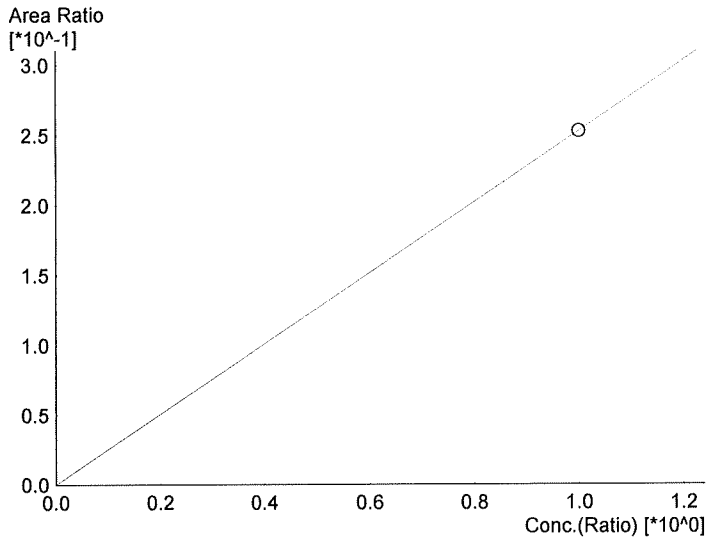
#	Conc.	Area	Std. Conc.
1	0.050	14753	0.0527
2	0.100	31164	0.1000
3	0.200	64037	0.1981
4	0.300	97675	0.2964
5	0.500	169949	0.5025



Name : ACETONE
 Detector Name: FID2
 Function : $f(x)=0.191512*x+0$
 Linearity=1.000000
 FitType: Linear
 ZeroThrough: Not Through

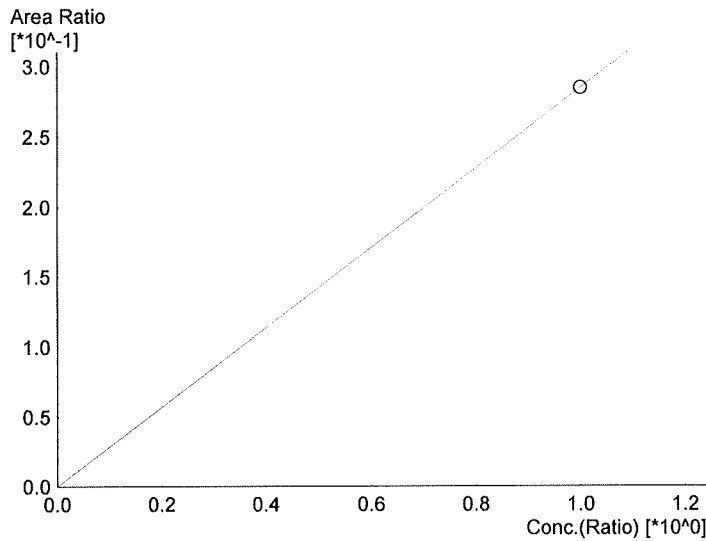
#	Conc.	Area	Std. Conc.
1	1.000	32952	1.0000

TD



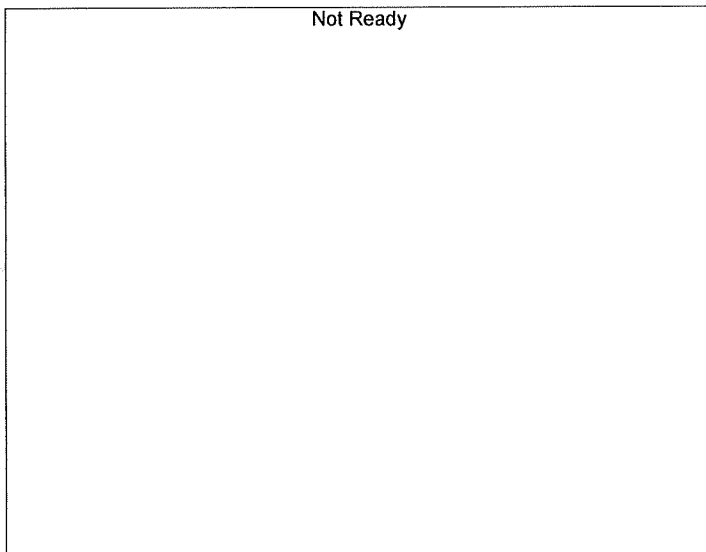
Name : ISOPROPYL ALCOHOL
Detector Name: FID2
Function : $f(x)=0.252599*x+0$
Linearity=1.000000
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
1	1.000	43462	1.0000



Name : DFE
Detector Name: FID2
Function : $f(x)=0.284371*x+0$
Linearity=1.000000
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
1	1.000	28641	1.0000

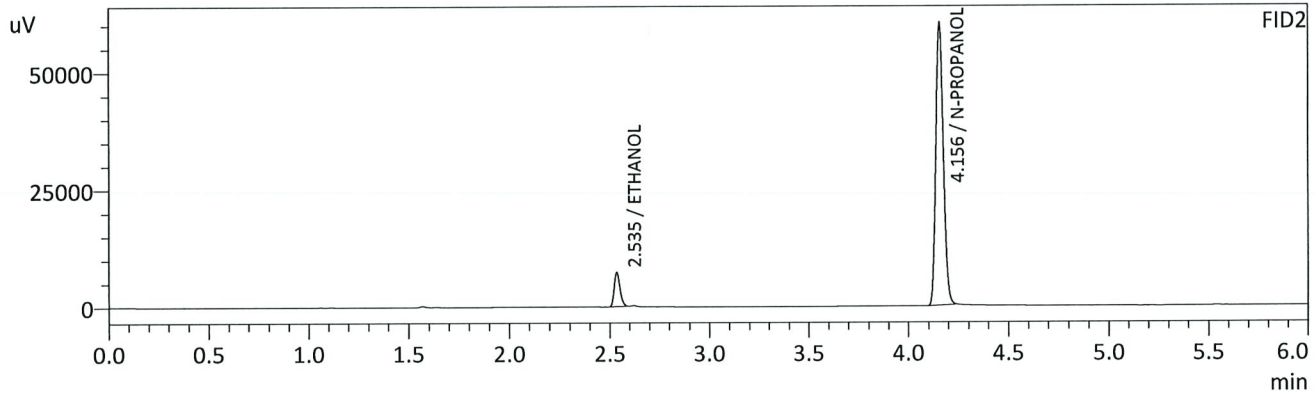
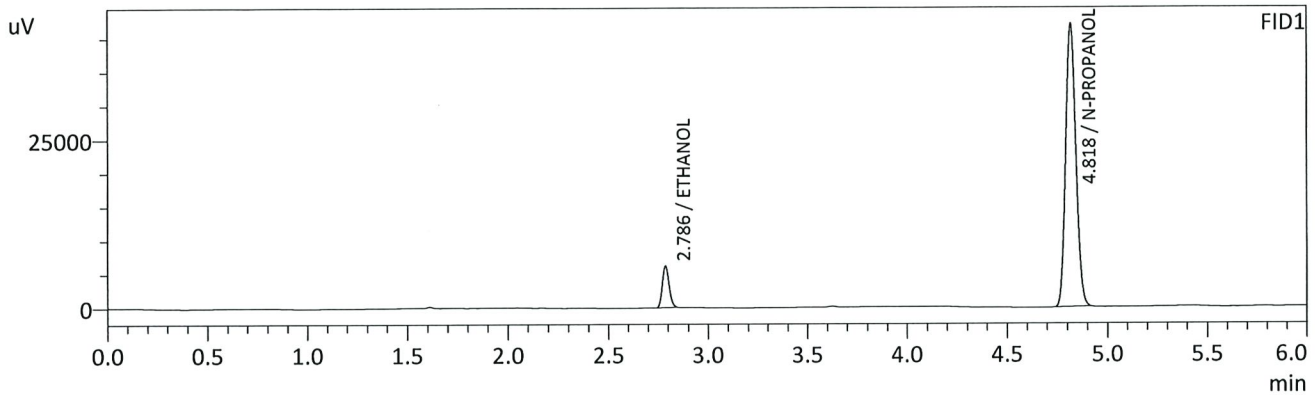


Name : TFE
Detector Name: FID2
Function : $f(x)=0*x+0$
Linearity=0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
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B

Sample Name : 0.050
 Vial # : 1
 Data Filename : 0.050_342021_001.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 030421_TS_POST.gcb
 Date Acquired : 3/4/2021 1:31:24 PM
 Date Processed : 3/5/2021 7:12:42 AM



FID1

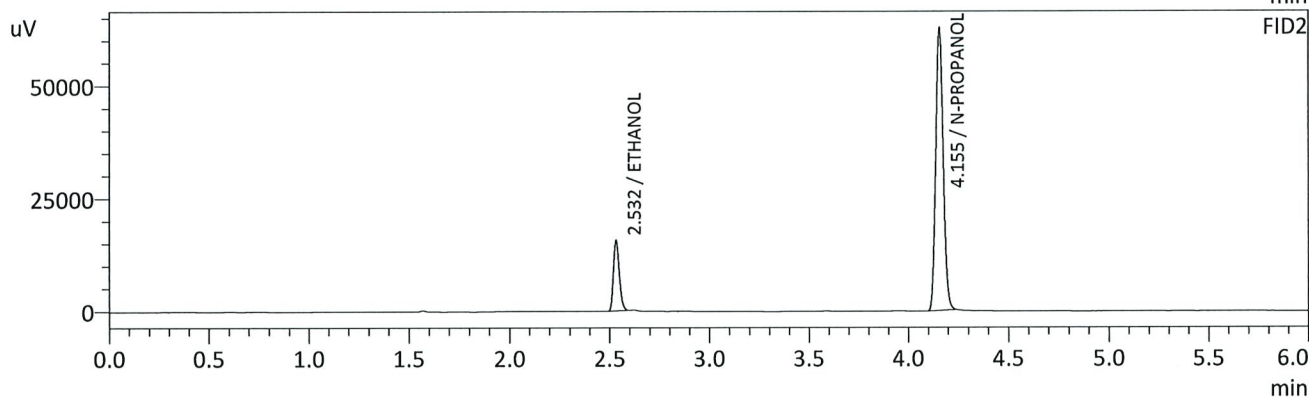
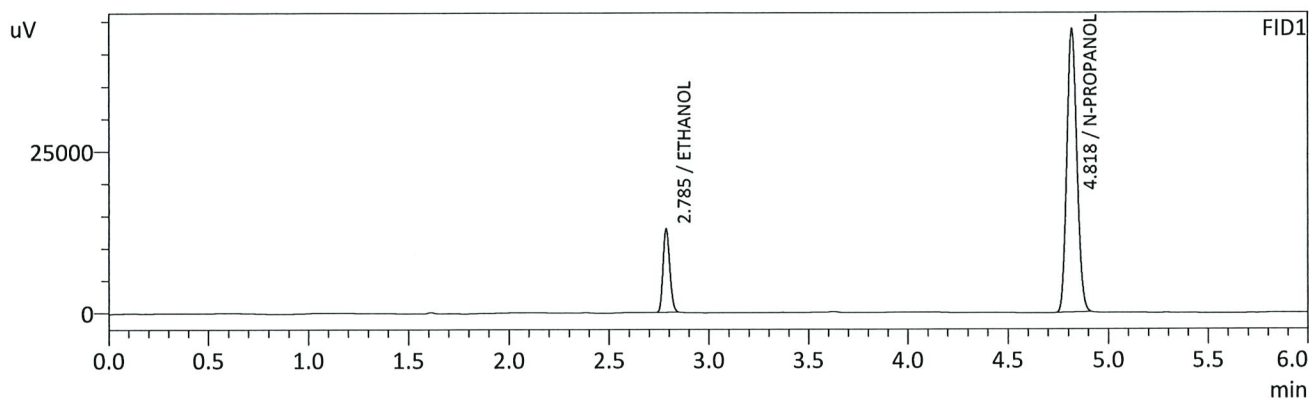
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0513	g/100cc	14461	6107
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	146765	42033
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0527	g/100cc	14753	7220
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	158592	60236
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

TS

Sample Name : 0.100
 Vial # : 2
 Data Filename : 0.100_342021_002.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 030421_TS_POST.gcb
 Date Acquired : 3/4/2021 1:40:00 PM
 Date Processed : 3/5/2021 7:12:44 AM



FID1

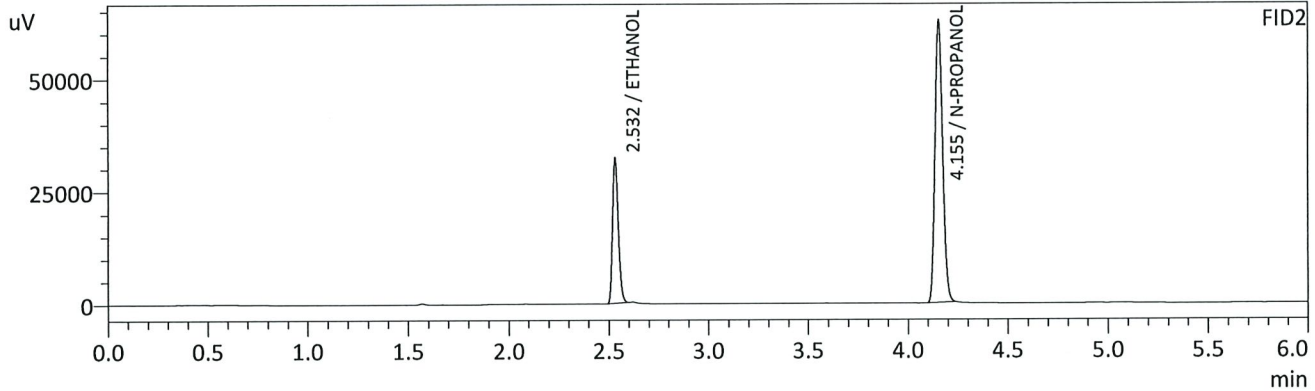
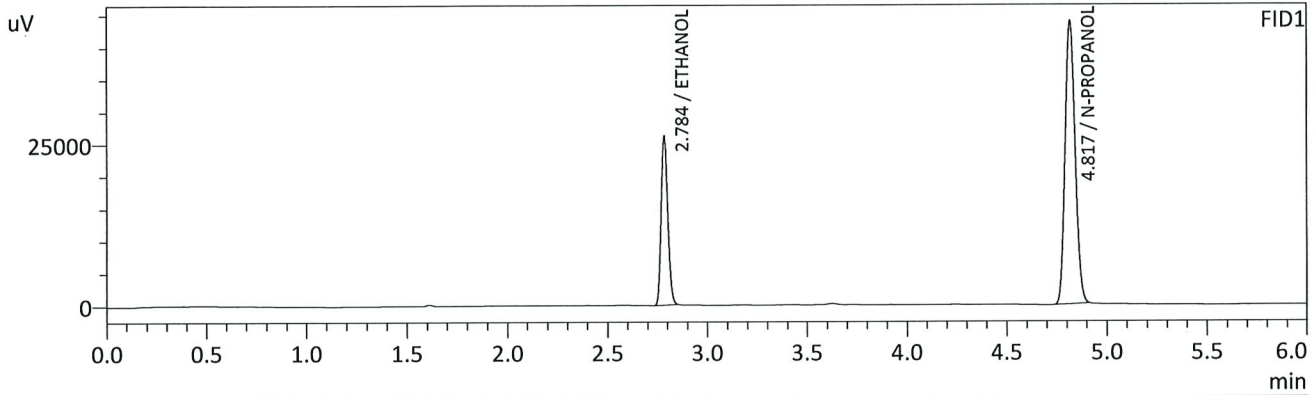
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.1001	g/100cc	30193	12892
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	153000	43730
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.1000	g/100cc	31164	15614
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	164940	62622
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

15

Sample Name : 0.200
 Vial # : 3
 Data Filename : 0.200_342021_003.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 030421_TS_POST.gcb
 Date Acquired : 3/4/2021 1:48:55 PM
 Date Processed : 3/5/2021 7:12:45 AM



FID1

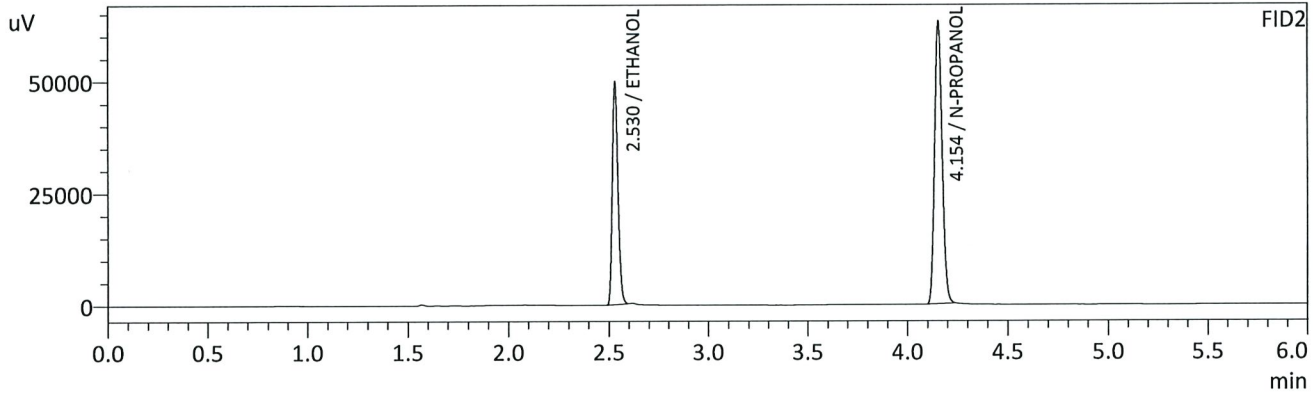
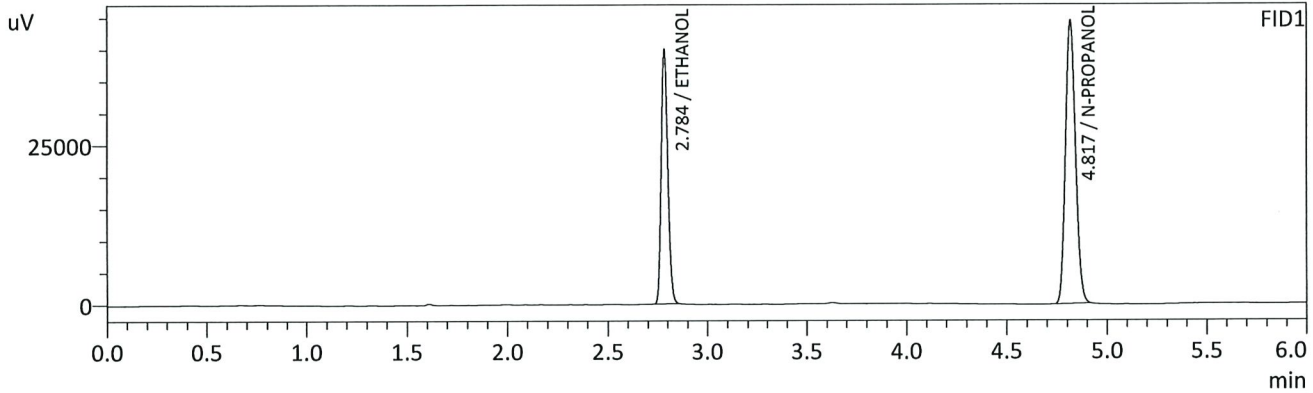
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.1991	g/100cc	60961	26130
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	153136	43686
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.1981	g/100cc	64037	32192
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	164997	62402
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

TS

Sample Name : 0.300
 Vial # : 4
 Data Filename : 0.300_342021_004.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 030421_TS_POST.gcb
 Date Acquired : 3/4/2021 1:57:46 PM
 Date Processed : 3/5/2021 7:12:46 AM



FID1

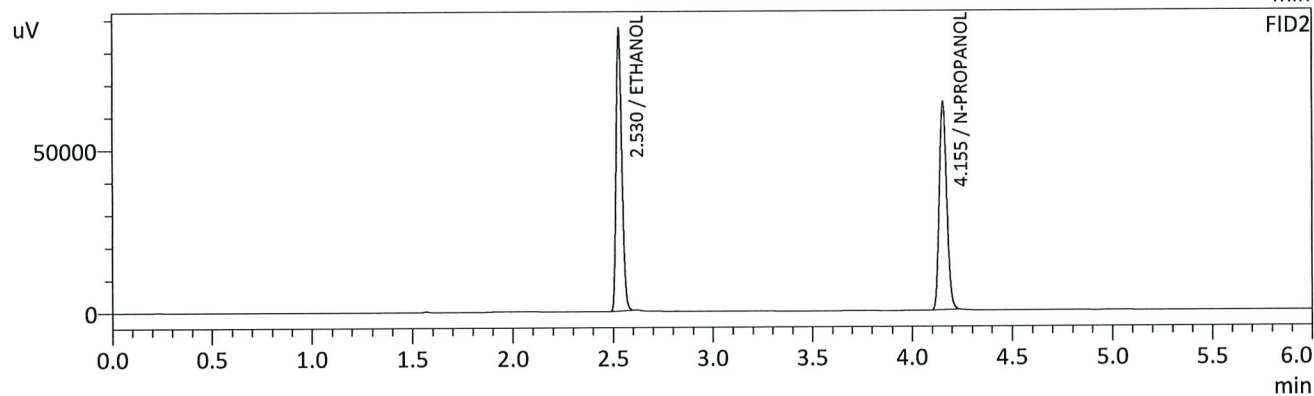
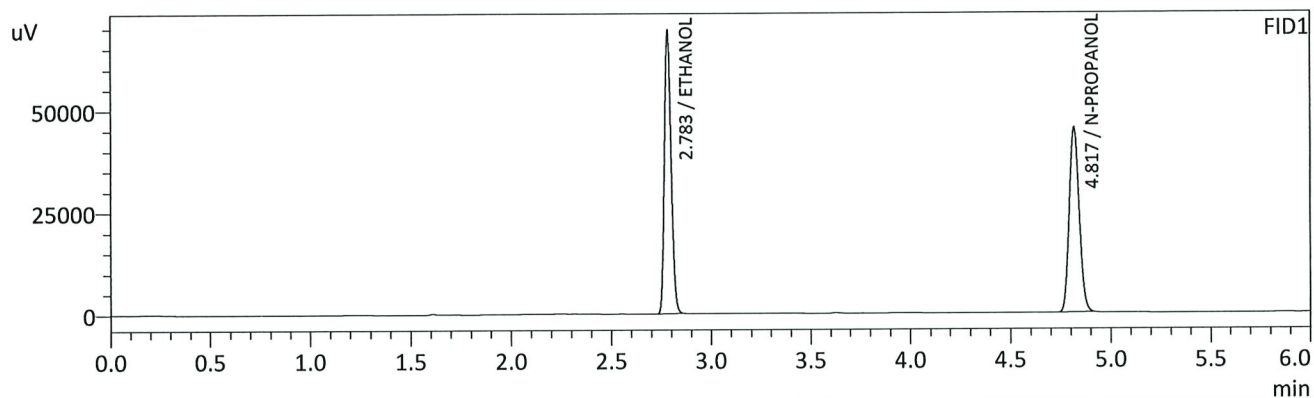
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.2977	g/100cc	92575	39825
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	154832	44304
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.2964	g/100cc	97675	49041
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	166269	62754
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

13

Sample Name : 0.500
 Vial # : 5
 Data Filename : 0.500_342021_005.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 030421_TS_POST.gcb
 Date Acquired : 3/4/2021 2:06:44 PM
 Date Processed : 3/5/2021 7:12:47 AM



FID1

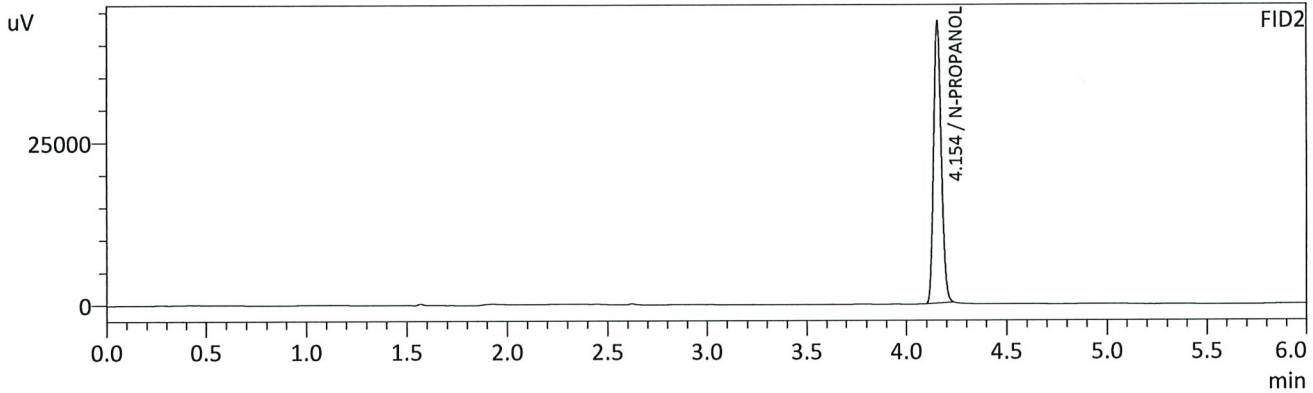
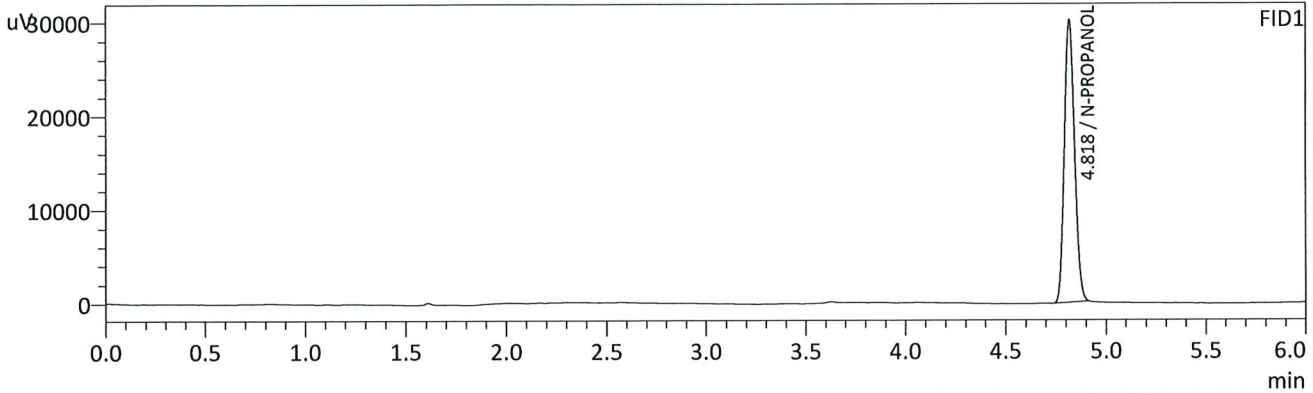
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.5014	g/100cc	159948	69063
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	158238	45089
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.5025	g/100cc	169949	85651
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	168977	63855
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

TS

Sample Name : INT STD BLK 1
 Vial # : 6
 Data Filename : INT STD BLK 1_342021_006.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 030421_TS_POST.gcb
 Date Acquired : 3/4/2021 2:15:40 PM
 Date Processed : 3/5/2021 7:12:50 AM



FID1

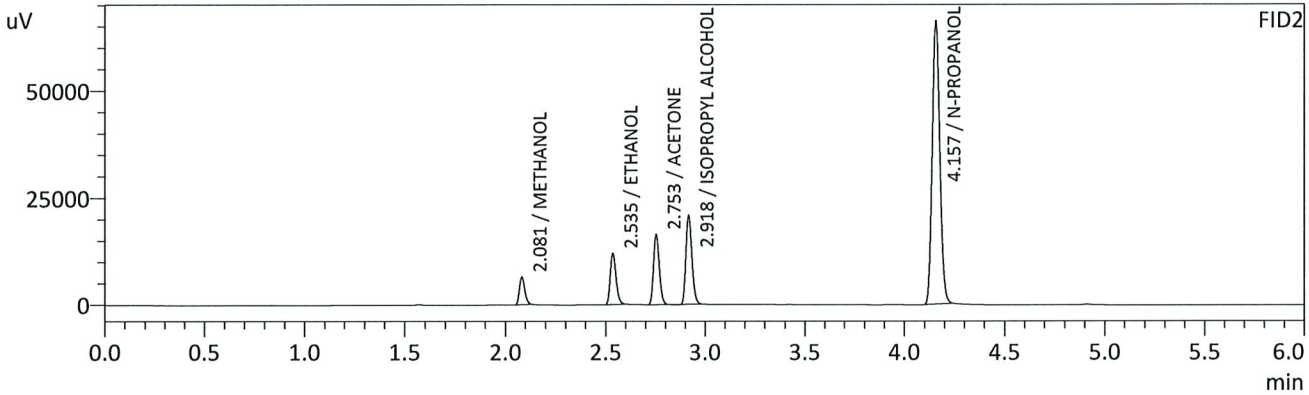
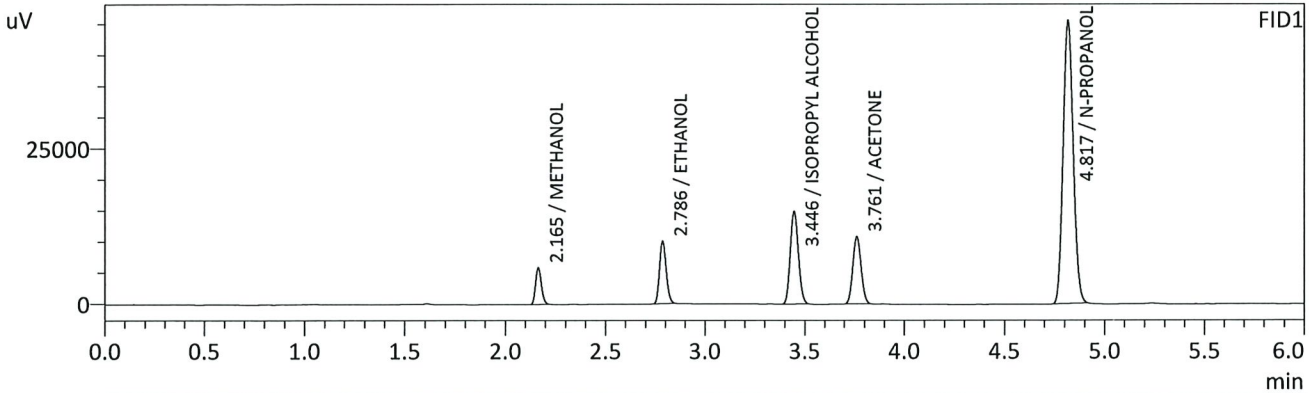
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	105870	30114
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

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	114345	43150
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

TS

Sample Name : MULTI-COMP MIX
 Vial # : 7
 Data Filename : MULTI-COMP MIX_342021_007.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 030421_TS_POST.gcb
 Date Acquired : 3/4/2021 2:24:47 PM
 Date Processed : 3/5/2021 7:12:51 AM



FID1

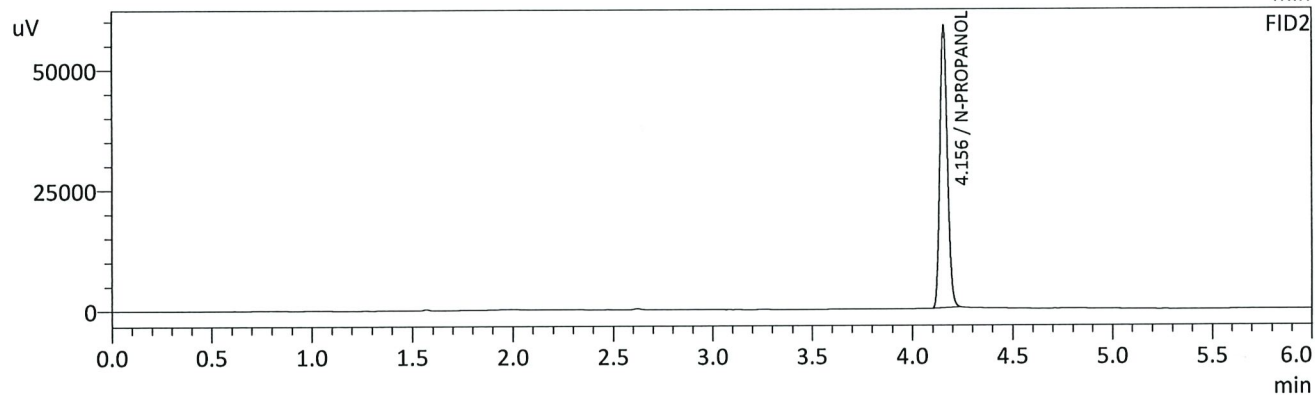
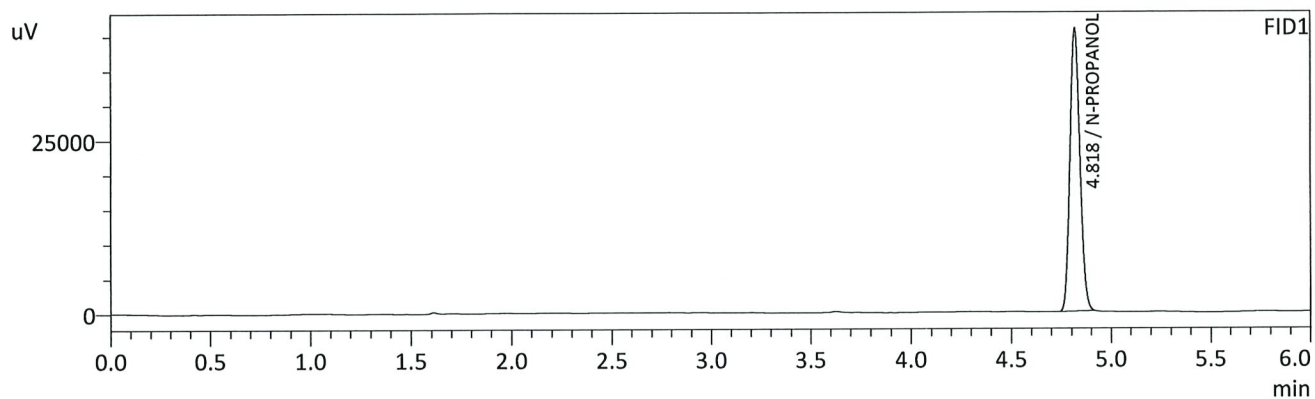
Name	Conc.	Unit	Area	Height
METHANOL	0.0000	g/100cc	11934	5837
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0750	g/100cc	23253	9909
ISOPROPYL ALCOHOL	0.0000	g/100cc	41493	14829
ACETONE	0.0000	g/100cc	30671	10683
N-PROPANOL	0.0000	g/100cc	158792	45409
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	0.0000	g/100cc	12248	6401
ETHANOL	0.0755	g/100cc	23962	11921
ACETONE	0.0000	g/100cc	32952	16273
ISOPROPYL ALCOHOL	0.0000	g/100cc	43462	20616
N-PROPANOL	0.0000	g/100cc	172061	65975
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

TS

Sample Name : INT STD BLK 2
 Vial # : 8
 Data Filename : INT STD BLK 2_342021_008.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 030421_TS_POST.gcb
 Date Acquired : 3/4/2021 2:33:29 PM
 Date Processed : 3/5/2021 7:12:52 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	142369	40749
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	153785	58502
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC-1-1

Analysis Date(s): 03-04-2021

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0752	0.0757	0.0005	0.0754	0.0002	0.0753
(g/100cc)	0.0751	0.0753	0.0002	0.0752		

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
0.075	0.071	0.079	0.004

	Reported Result	
	0.075	

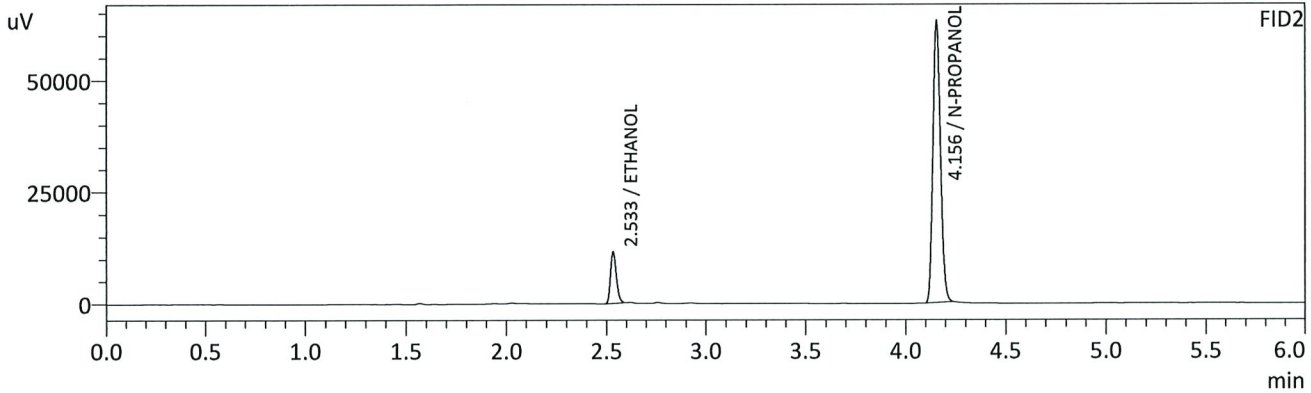
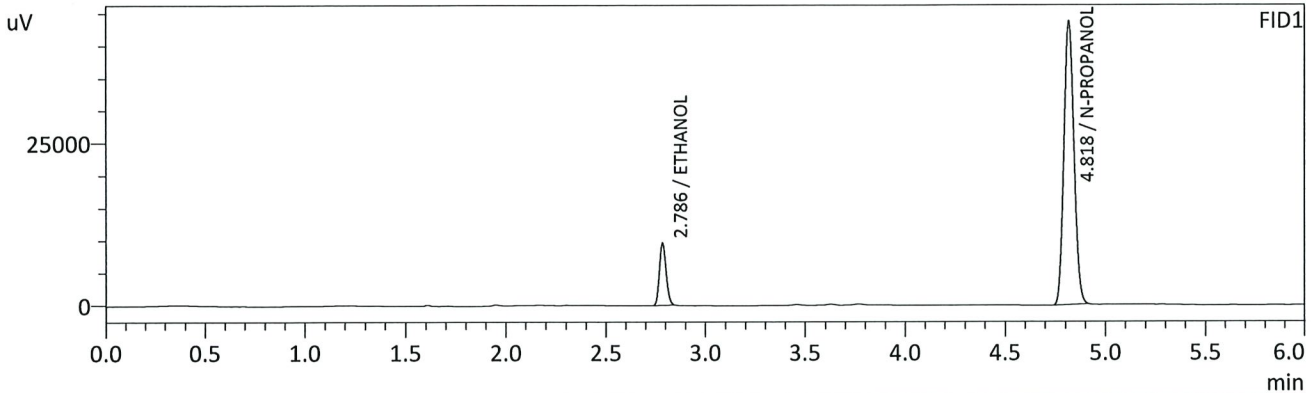
Calibration and control data are stored centrally.

Revision: 3

Issue Date: 12/28/2020

B

Sample Name : QC-1-1-A
 Vial # : 9
 Data Filename : QC-1-1-A_342021_009.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 030421_TS_POST.gcb
 Date Acquired : 3/4/2021 2:41:58 PM
 Date Processed : 3/5/2021 7:12:53 AM



FID1

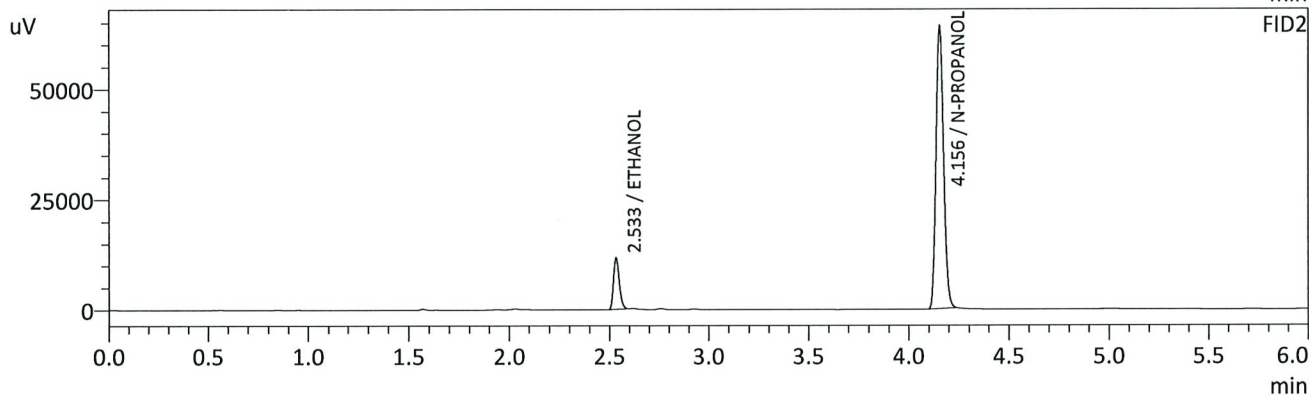
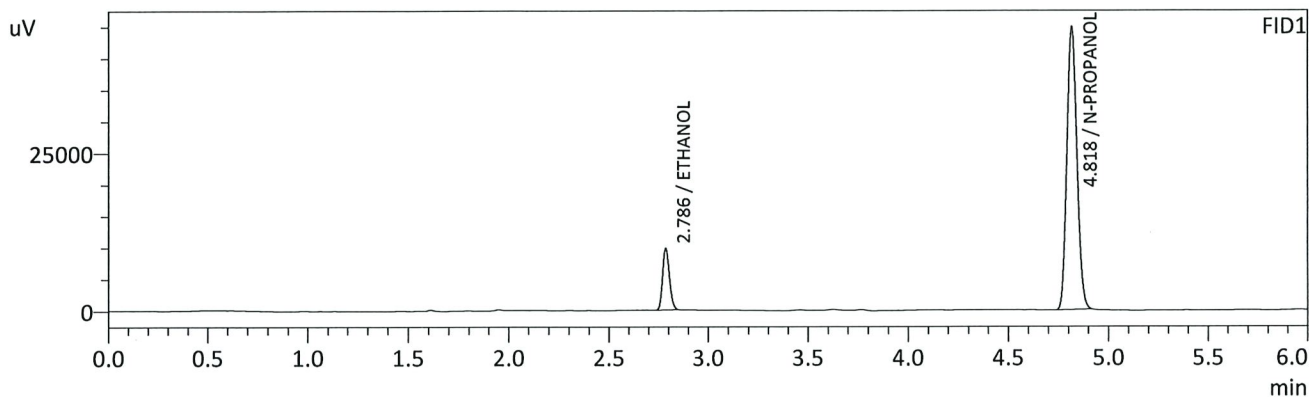
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0752	g/100cc	22506	9535
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	153222	43651
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0757	g/100cc	23134	11487
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	165615	63010
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

B

Sample Name : QC-1-1-B
 Vial # : 10
 Data Filename : QC-1-1-B_342021_010.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 030421_TS_POST.gcb
 Date Acquired : 3/4/2021 2:50:39 PM
 Date Processed : 3/5/2021 7:12:55 AM



FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0751	g/100cc	22942	9671
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	156506	44732
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0753	g/100cc	23457	11635
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	168868	64013
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 0.08 QA

Analysis Date(s): 03-04-2021

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0812	0.0815	0.0003	0.0813	0.0006	0.0810
(g/100cc)	0.0805	0.0809	0.0004	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%

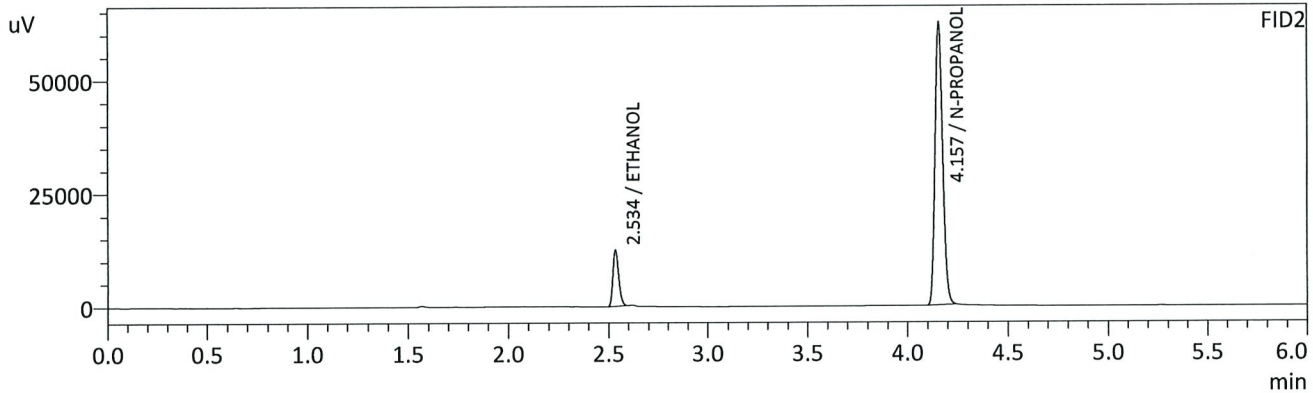
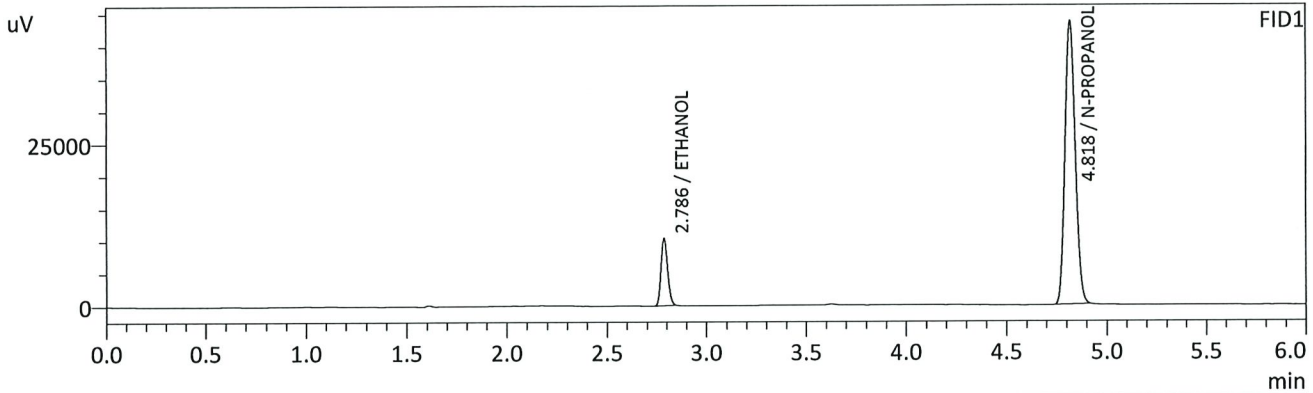
Overall Mean (g/100cc)	Low	High	5% of Mean
0.081	0.076	0.086	0.005

	Reported Result
	0.081

Calibration and control data are stored centrally.

TS

Sample Name : 0.08 QA - A
 Vial # : 11
 Data Filename : 0.08 QA - A_342021_011.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 030421_TS_POST.gcb
 Date Acquired : 3/4/2021 2:59:16 PM
 Date Processed : 3/5/2021 7:12:56 AM



FID1

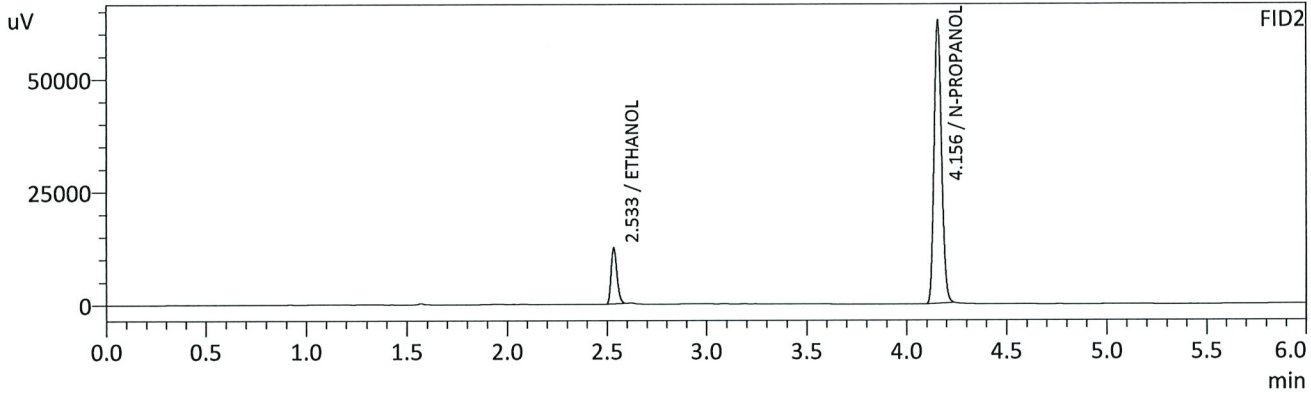
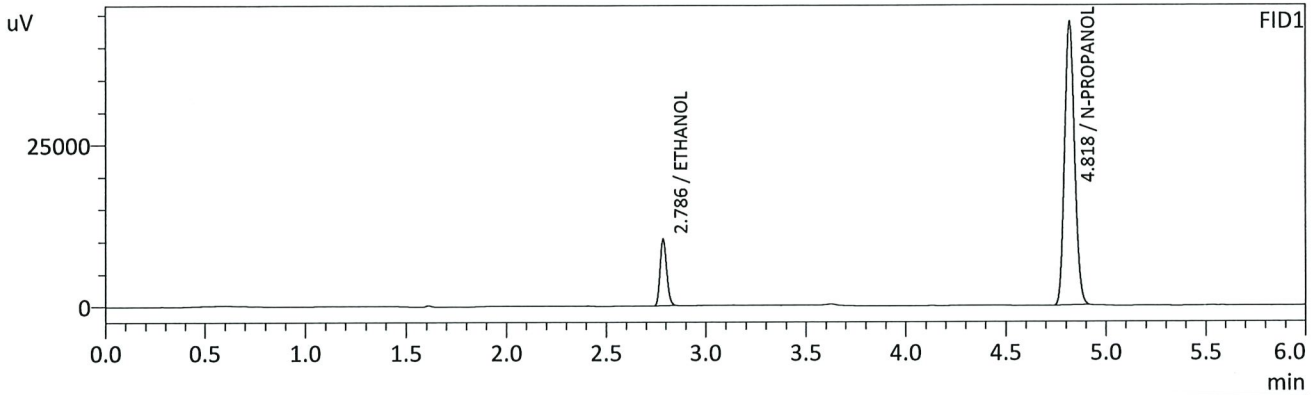
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0812	g/100cc	24261	10258
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	152470	43583
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0815	g/100cc	24844	12208
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	164129	62278
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

TS

Sample Name : 0.08 QA - B
 Vial # : 12
 Data Filename : 0.08 QA - B_342021_012.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 030421_TS_POST.gcb
 Date Acquired : 3/4/2021 3:08:24 PM
 Date Processed : 3/5/2021 7:12:57 AM



FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0805	g/100cc	24168	10244
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	153392	43796
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0809	g/100cc	24841	12323
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	165352	62661
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

15

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC 2-1

Analysis Date(s): 03-04-2021

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.2107	0.2101	0.0006	0.2104	0.0003	0.2105
(g/100cc)	0.2109	0.2106	0.0003	0.2107		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

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

Reporting of Results

Uncertainty of Measurement (UM%): 5.00%

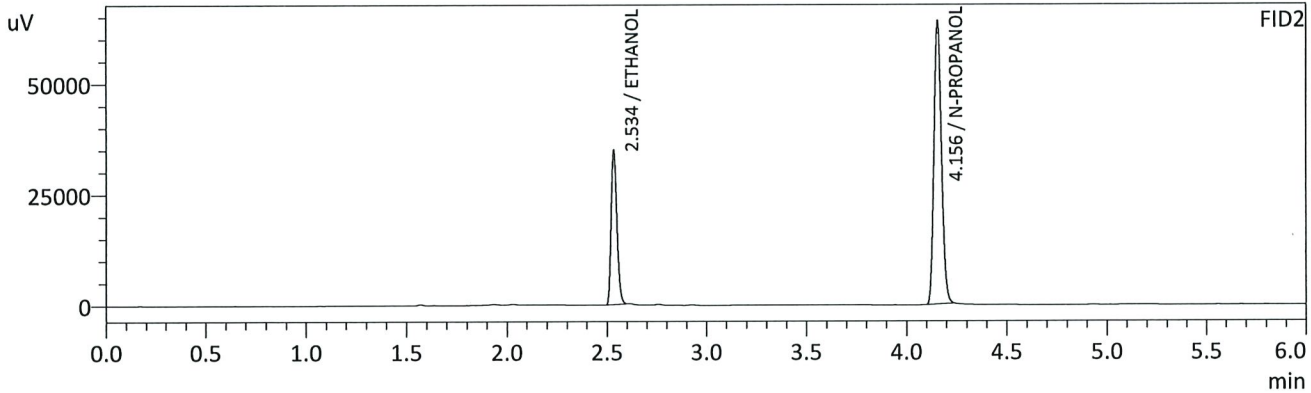
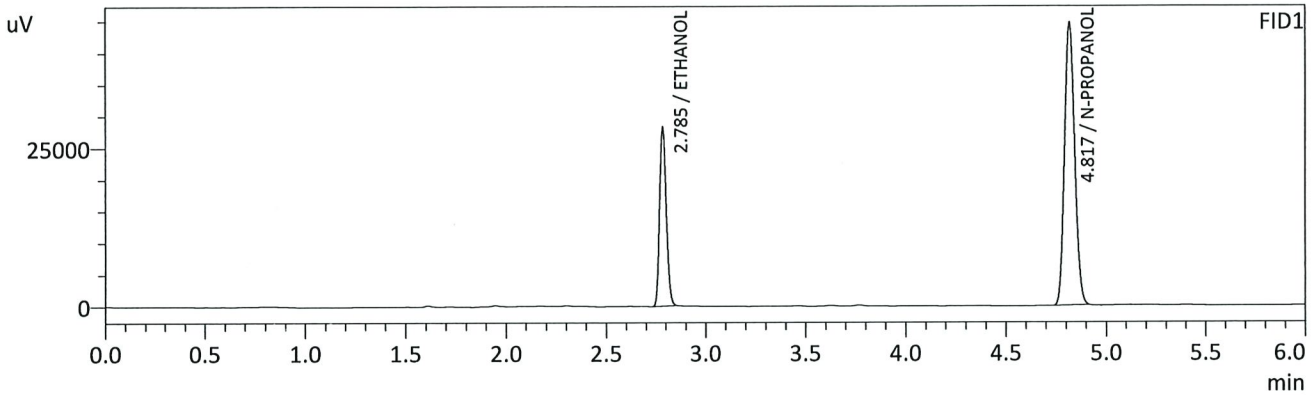
Overall Mean (g/100cc)	Low	High	5% of Mean
0.210	0.199	0.221	0.011

	Reported Result	
	0.210	

Calibration and control data are stored centrally.

TS

Sample Name : QC-2-1-A
 Vial # : 31
 Data Filename : QC-2-1-A_342021_031.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 030421_TS_POST.gcb
 Date Acquired : 3/4/2021 5:56:26 PM
 Date Processed : 3/5/2021 7:13:22 AM



FID1

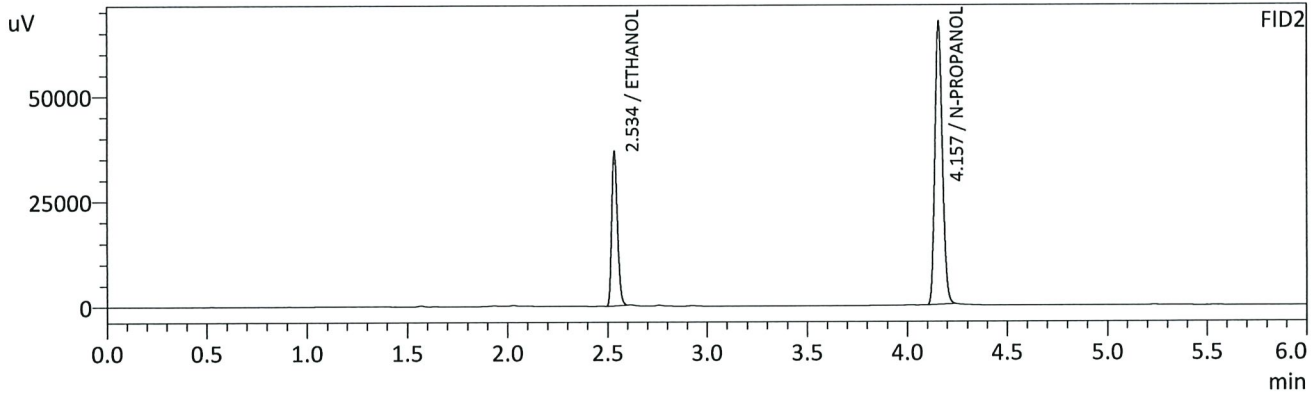
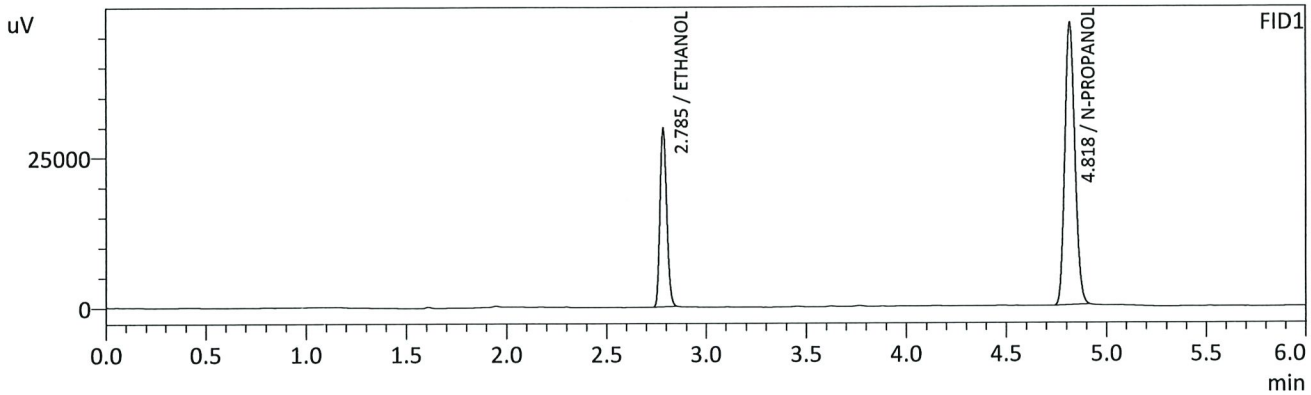
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.2107	g/100cc	65847	28193
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	156189	44504
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.2101	g/100cc	69062	34486
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	167484	63765
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

13

Sample Name : QC-2-1-B
 Vial # : 32
 Data Filename : QC-2-1-B_342021_032.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 030421_TS_POST.gcb
 Date Acquired : 3/4/2021 6:05:16 PM
 Date Processed : 3/5/2021 7:13:23 AM



FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.2109	g/100cc	69476	29705
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	164643	46926
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.2106	g/100cc	72867	36262
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	176280	67027
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

10

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-2

Analysis Date(s): 03-04-2021

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0777	0.0780	0.0003	0.0778	0.0009	0.0774
(g/100cc)	0.0768	0.0771	0.0003	0.0769		

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%

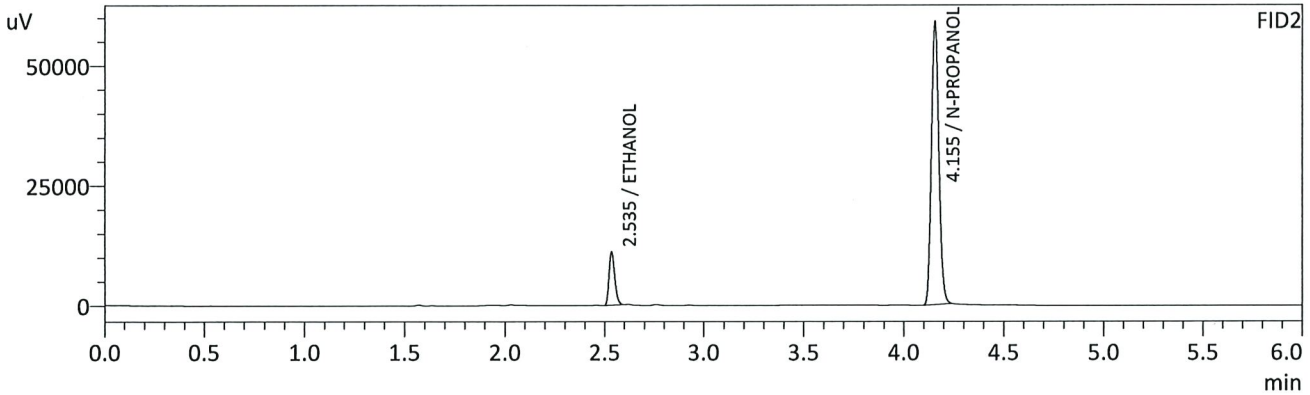
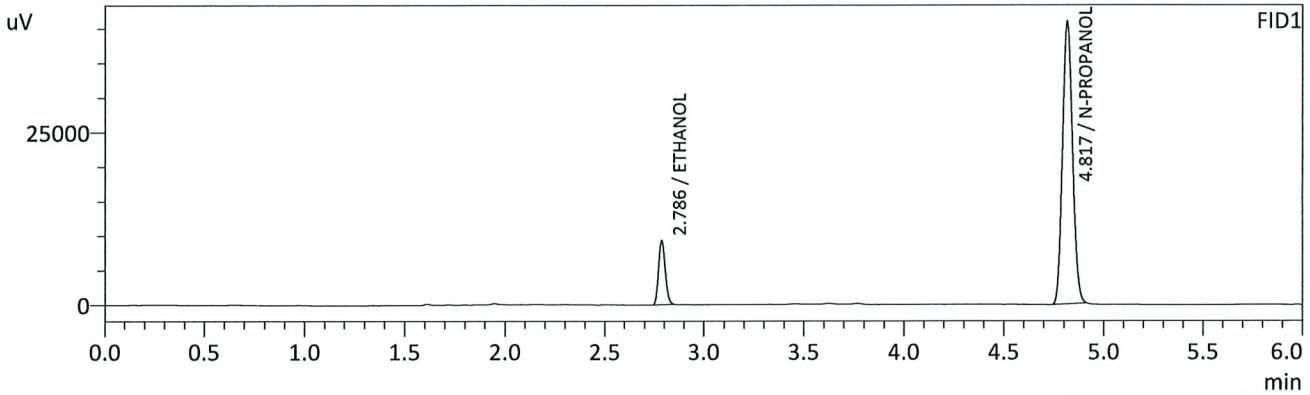
Overall Mean (g/100cc)	Low	High	5% of Mean
0.077	0.073	0.081	0.004

	Reported Result	
	0.077	

Calibration and control data are stored centrally.

TS

Sample Name : QC1-2-A
 Vial # : 47
 Data Filename : QC1-2-A_342021_047.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 030421_TS_POST.gcb
 Date Acquired : 3/4/2021 8:18:36 PM
 Date Processed : 3/5/2021 7:13:43 AM



FID1

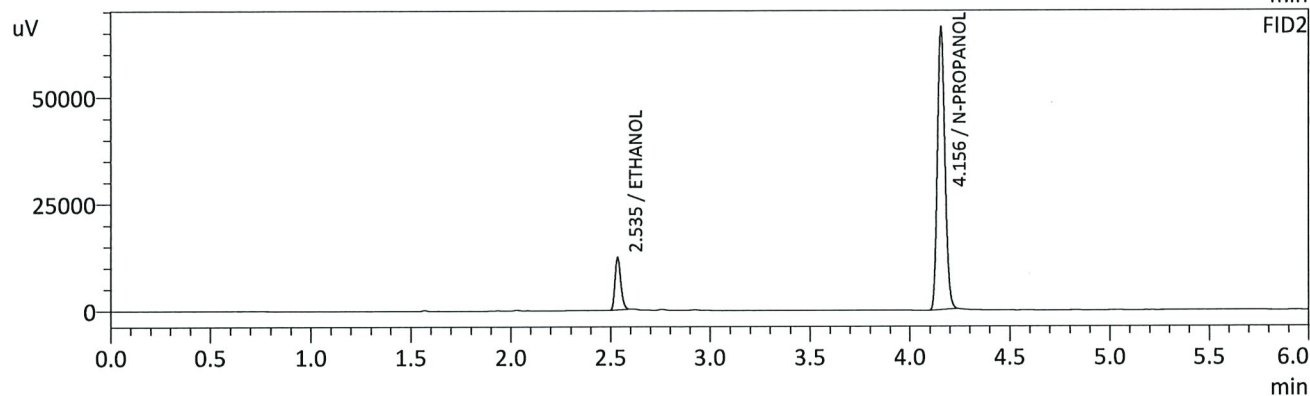
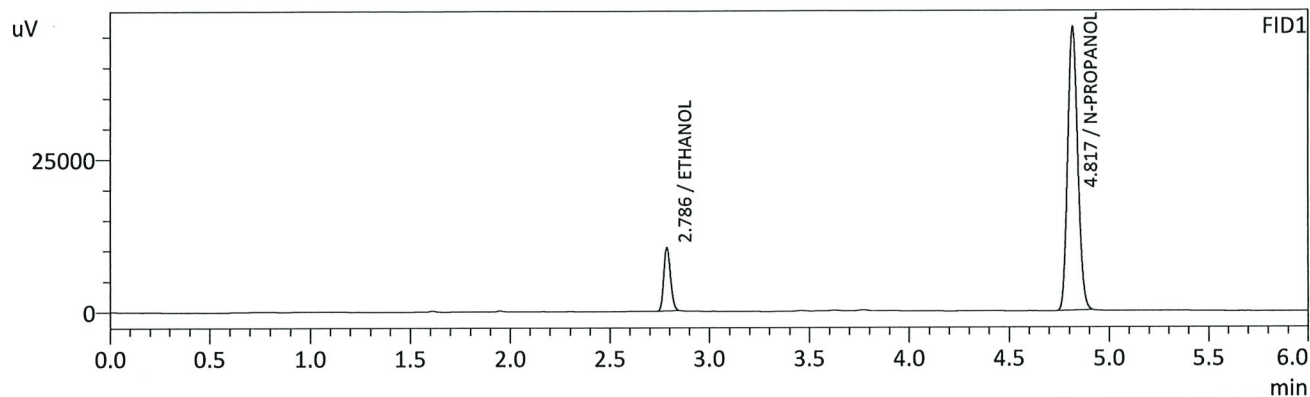
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0777	g/100cc	21632	9188
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	142290	40798
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0780	g/100cc	22182	10989
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	153787	58902
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

TS

Sample Name : QC1-2-B
 Vial # : 48
 Data Filename : QC1-2-B_342021_048.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 030421_TS_POST.gcb
 Date Acquired : 3/4/2021 8:27:29 PM
 Date Processed : 3/5/2021 7:13:44 AM



FID1

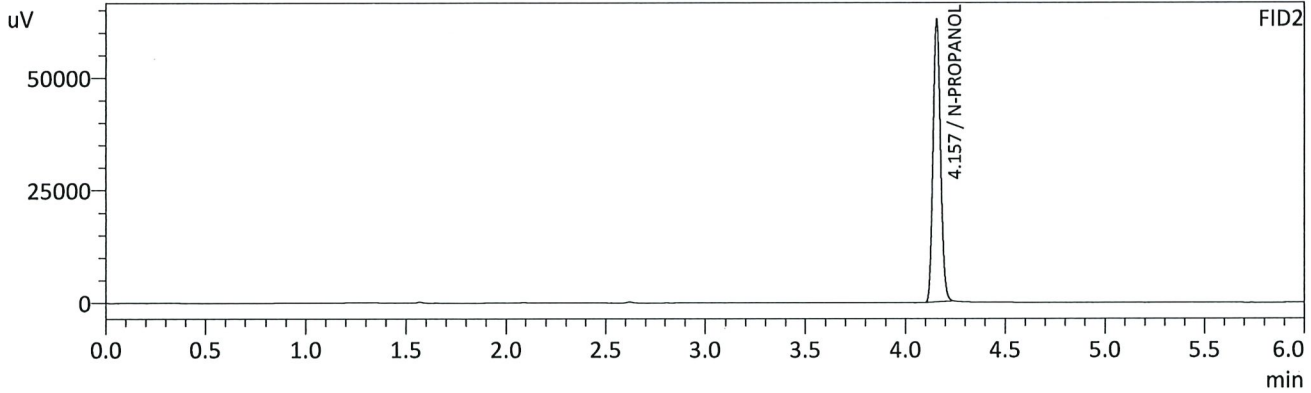
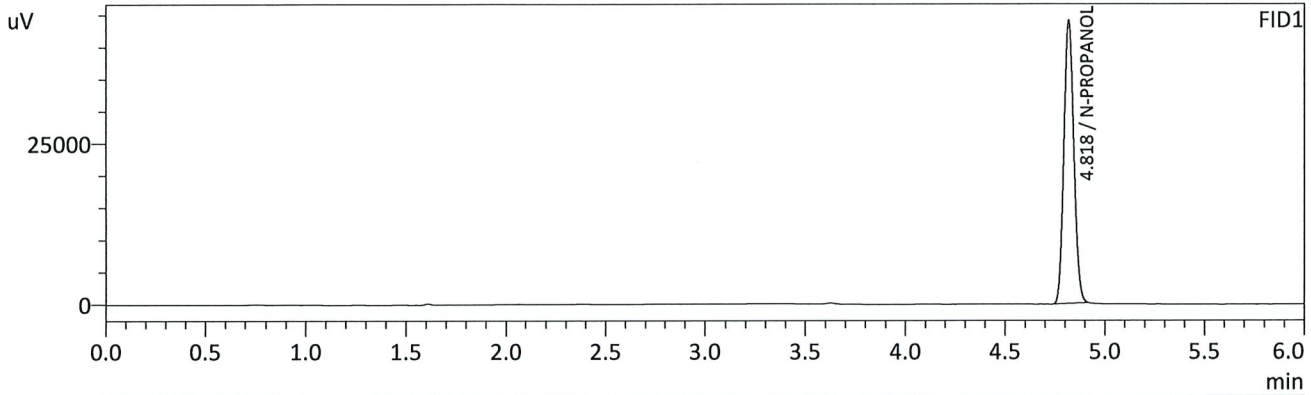
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0768	g/100cc	24183	10215
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	161177	46184
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0771	g/100cc	24649	12178
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	173080	66120
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

DB

Sample Name : INT STD BLK 3
 Vial # : 49
 Data Filename : INT STD BLK 3_342021_049.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 030421_TS_POST.gcb
 Date Acquired : 3/4/2021 8:36:22 PM
 Date Processed : 3/5/2021 7:13:45 AM



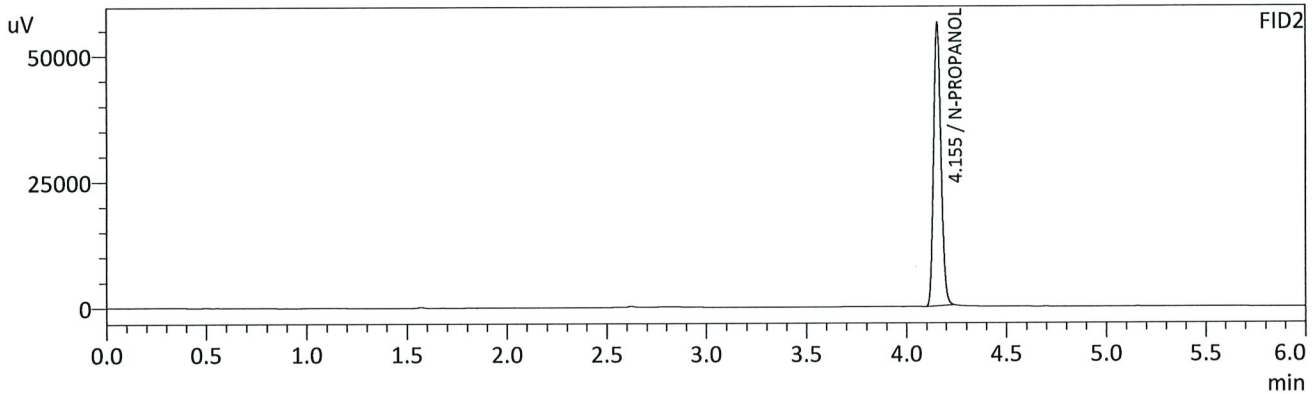
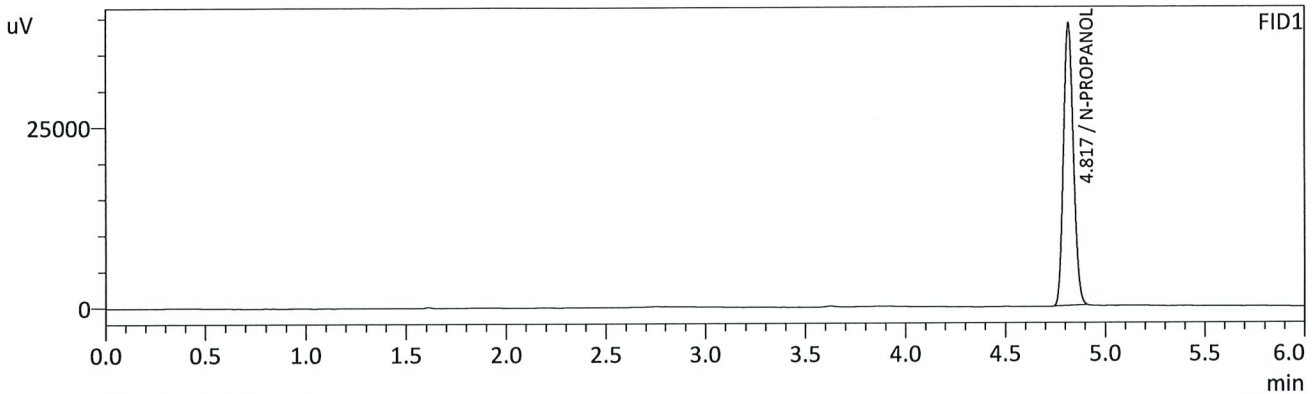
FID1

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	153258	43973
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	164733	62618
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

Sample Name : INT STD BLK 4
 Vial # : 50
 Data Filename : INT STD BLK 4_352021_001.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 030421_TS.gcb
 Date Acquired : 3/5/2021 10:37:17 AM
 Date Processed : 3/8/2021 8:33:26 AM



FID1

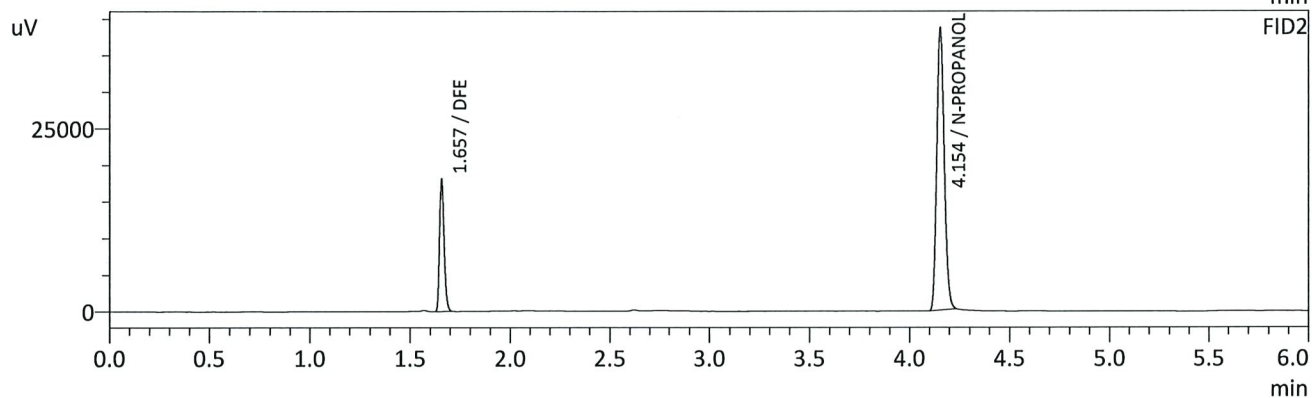
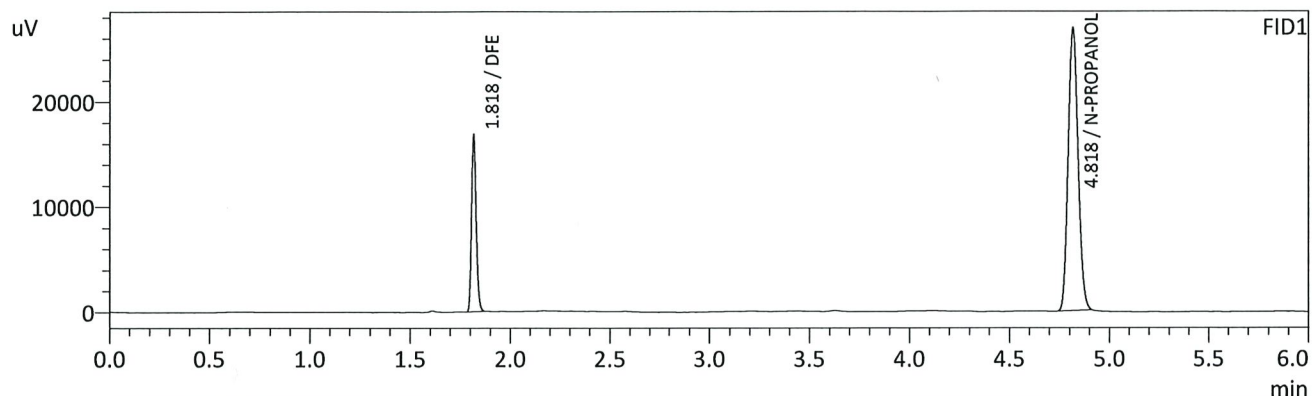
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	135489	38917
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

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	146744	55944
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FD

Sample Name : DFE
 Vial # : 51
 Data Filename : DFE_352021_002.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 030421_TS.gcb
 Date Acquired : 3/5/2021 10:46:20 AM
 Date Processed : 3/8/2021 8:33:27 AM



FID1

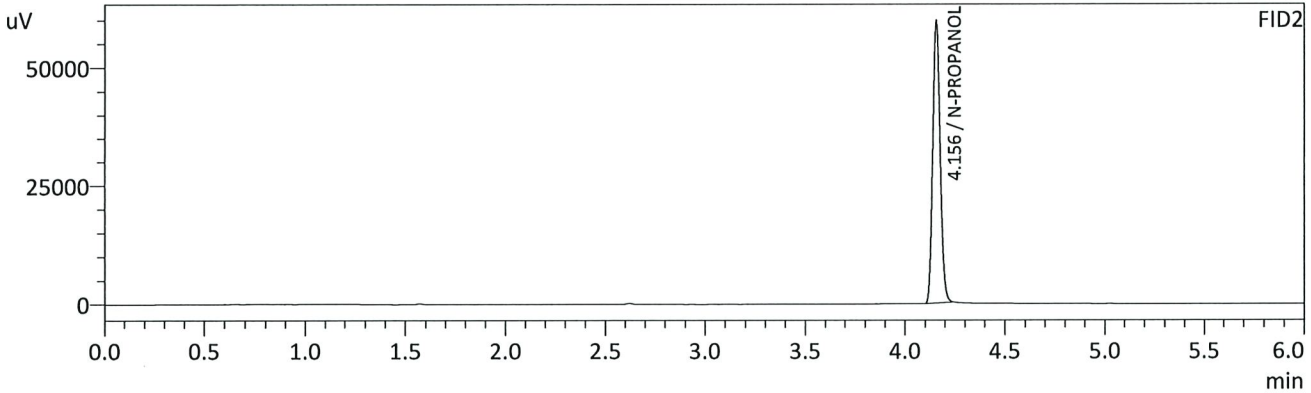
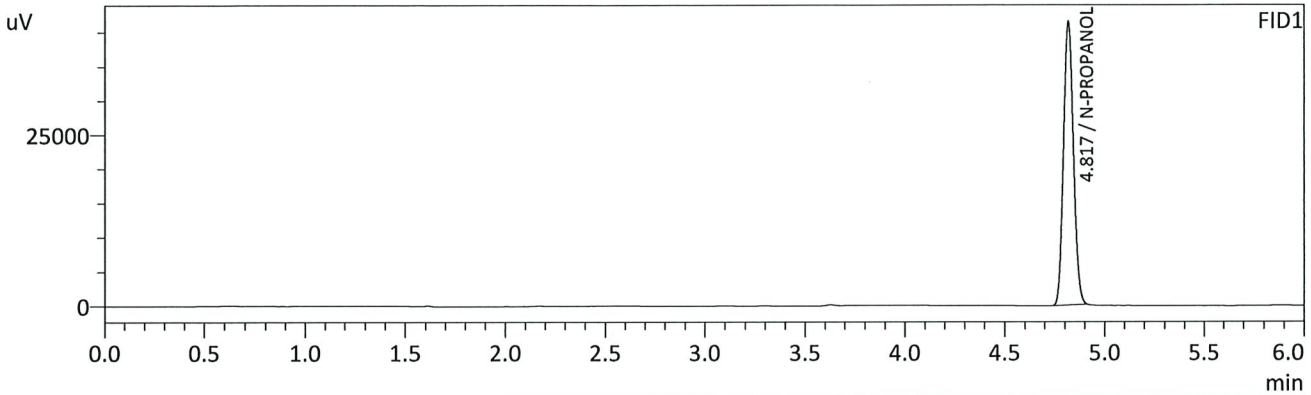
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	93516	26808
DFE	1.0000	g/100cc	27050	16711
TFE	--	g/100cc	--	--

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	100716	38380
DFE	1.0000	g/100cc	28641	17548
TFE	--	g/100cc	--	--

B

Sample Name : INT STD BLK 5
 Vial # : 52
 Data Filename : INT STD BLK 5_352021_003.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 030421_TS.gcb
 Date Acquired : 3/5/2021 10:55:20 AM
 Date Processed : 3/8/2021 8:33:28 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	144266	41381
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	155725	59599
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

TS

Region 5 Pocatello Blood Alcohol Analysis Batch Table

Shimadzu Nexis GC-2030 Serial Number: C12255850662

Shimadzu HS-20 Serial Number: C12595700014

LabSolutions Version 5.98

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Vial#	Sample Name	Sample Type	Method File	Data File	Level#
1	0.050	1:Standard:(I)	ALCOHOL.gcm	0.050_342021_001.gcd	1
2	0.100	1:Standard:(R)	ALCOHOL.gcm	0.100_342021_002.gcd	2
3	0.200	1:Standard:(R)	ALCOHOL.gcm	0.200_342021_003.gcd	3
4	0.300	1:Standard:(R)	ALCOHOL.gcm	0.300_342021_004.gcd	4
5	0.500	1:Standard:(R)	ALCOHOL.gcm	0.500_342021_005.gcd	5
6	INT STD BLK 1	0:Unknown	ALCOHOL.gcm	INT STD BLK 1_342021_006.gcd	0
7	MULTI-COMP MIX	0:Unknown	ALCOHOL.gcm	MULTI-COMP MIX_342021_007.gcd	1
8	INT STD BLK 2	0:Unknown	ALCOHOL.gcm	INT STD BLK 2_342021_008.gcd	0
9	QC-1-1-A	0:Unknown	ALCOHOL.gcm	QC-1-1-A_342021_009.gcd	0
10	QC-1-1-B	0:Unknown	ALCOHOL.gcm	QC-1-1-B_342021_010.gcd	0
11	0.08 QA - A	0:Unknown	ALCOHOL.gcm	0.08 QA - A_342021_011.gcd	0
12	0.08 QA - B	0:Unknown	ALCOHOL.gcm	0.08 QA - B_342021_012.gcd	0
13	P2021-0168-1-A	0:Unknown	ALCOHOL.gcm	P2021-0168-1-A_342021_013.gcd	0
14	P2021-0168-1-B	0:Unknown	ALCOHOL.gcm	P2021-0168-1-B_342021_014.gcd	0
15	P2021-0194-1-A	0:Unknown	ALCOHOL.gcm	P2021-0194-1-A_342021_015.gcd	0
16	P2021-0194-1-B	0:Unknown	ALCOHOL.gcm	P2021-0194-1-B_342021_016.gcd	0
17	P2021-0201-1-A	0:Unknown	ALCOHOL.gcm	P2021-0201-1-A_342021_017.gcd	0
18	P2021-0201-1B	0:Unknown	ALCOHOL.gcm	P2021-0201-1B_342021_018.gcd	0
19	P2021-0202-1-A	0:Unknown	ALCOHOL.gcm	P2021-0202-1-A_342021_019.gcd	0
20	P2021-0202-1-B	0:Unknown	ALCOHOL.gcm	P2021-0202-1-B_342021_020.gcd	0
21	P2021-0237-1-A	0:Unknown	ALCOHOL.gcm	P2021-0237-1-A_342021_021.gcd	0
22	P2021-0237-1--B	0:Unknown	ALCOHOL.gcm	P2021-0237-1--B_342021_022.gcd	0
23	P2021-0237-2-A	0:Unknown	ALCOHOL.gcm	P2021-0237-2-A_342021_023.gcd	0
24	P2021-0237-2-B	0:Unknown	ALCOHOL.gcm	P2021-0237-2-B_342021_024.gcd	0
25	P2021-0237-3-A	0:Unknown	ALCOHOL.gcm	P2021-0237-3-A_342021_025.gcd	0
26	P2021-0237-3-B	0:Unknown	ALCOHOL.gcm	P2021-0237-3-B_342021_026.gcd	0
27	P2021-0239-1-A	0:Unknown	ALCOHOL.gcm	P2021-0239-1-A_342021_027.gcd	0
28	P2021-0239-1-B	0:Unknown	ALCOHOL.gcm	P2021-0239-1-B_342021_028.gcd	0
29	P2021-0287-1-A	0:Unknown	ALCOHOL.gcm	P2021-0287-1-A_342021_029.gcd	0
30	P2021-0287-1-B	0:Unknown	ALCOHOL.gcm	P2021-0287-1-B_342021_030.gcd	0
31	QC-2-1-A	0:Unknown	ALCOHOL.gcm	QC-2-1-A_342021_031.gcd	0
32	QC-2-1-B	0:Unknown	ALCOHOL.gcm	QC-2-1-B_342021_032.gcd	0
33	P2021-0365-2-A	0:Unknown	ALCOHOL.gcm	P2021-0365-2-A_342021_033.gcd	0
34	P2021-0365-2-B	0:Unknown	ALCOHOL.gcm	P2021-0365-2-B_342021_034.gcd	0
35	P2021-0370-1-A	0:Unknown	ALCOHOL.gcm	P2021-0370-1-A_342021_035.gcd	0
36	P2021-0370-1-B	0:Unknown	ALCOHOL.gcm	P2021-0370-1-B_342021_036.gcd	0
37	P2021-0443-1-A	0:Unknown	ALCOHOL.gcm	P2021-0443-1-A_342021_037.gcd	0
38	P2021-0443-1-B	0:Unknown	ALCOHOL.gcm	P2021-0443-1-B_342021_038.gcd	0
39	P2021-0443-2-A	0:Unknown	ALCOHOL.gcm	P2021-0443-2-A_342021_039.gcd	0
40	P2021-0443-2-B	0:Unknown	ALCOHOL.gcm	P2021-0443-2-B_342021_040.gcd	0
41	P2021-0443-3-A	0:Unknown	ALCOHOL.gcm	P2021-0443-3-A_342021_041.gcd	0
42	P2021-0443-3-B	0:Unknown	ALCOHOL.gcm	P2021-0443-3-B_342021_042.gcd	0
43	P2021-0443-4-A	0:Unknown	ALCOHOL.gcm	P2021-0443-4-A_342021_043.gcd	0
44	P2021-0443-4-B	0:Unknown	ALCOHOL.gcm	P2021-0443-4-B_342021_044.gcd	0
45	P2021-0569-1-A	0:Unknown	ALCOHOL.gcm	P2021-0569-1-A_342021_045.gcd	0
46	P2021-0569-1-B	0:Unknown	ALCOHOL.gcm	P2021-0569-1-B_342021_046.gcd	0
47	QC1-2-A	0:Unknown	ALCOHOL.gcm	QC1-2-A_342021_047.gcd	0
48	QC1-2-B	0:Unknown	ALCOHOL.gcm	QC1-2-B_342021_048.gcd	0
49	INT STD BLK 3	0:Unknown	ALCOHOL.gcm	INT STD BLK 3_342021_049.gcd	0
50	INT STD BLK 4	0:Unknown	ALCOHOL.gcm	INT STD BLK 4_352021_001.gcd	0
51	DFE	0:Unknown	ALCOHOL.gcm	DFE_352021_002.gcd	0
52	INT STD BLK 5	0:Unknown	ALCOHOL.gcm	INT STD BLK 5_352021_003.gcd	0

Rows 50-52
ran on
3/5/2021

-TS
3/8/2021