
















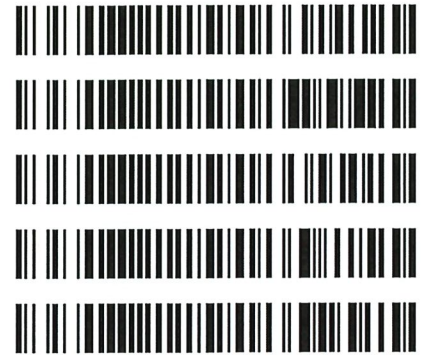
Worklist: 5569

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
P2022-0034	2	BCK	Alcohol Analysis	
P2022-0035	1	BCK	Alcohol Analysis	
P2022-0040	1	BCK	Alcohol Analysis	
P2022-0049	1	BCK	Alcohol Analysis	
P2022-0050	1	BCK	Alcohol Analysis	
P2022-0072	1	BCK	Alcohol Analysis	
P2022-0073	1	BCK	Alcohol Analysis	
P2022-0074	1	BCK	Alcohol Analysis	
P2022-0090	1	BCK	Alcohol Analysis	
P2022-0109	1	BCK	Alcohol Analysis	
P2022-0110	1	BCK	Alcohol Analysis	
P2022-0111	1	BCK	Alcohol Analysis	
P2022-0123	1	BCK	Alcohol Analysis	
P2022-0160	1	BCK	Alcohol Analysis	
P2022-0164	1	BCK	Alcohol Analysis	
P2022-0187	1	BCK	Alcohol Analysis	
P2022-0188	1	BCK	Alcohol Analysis	
P2022-0216	1	BCK	Alcohol Analysis	
P2022-0221	1	BCK	Alcohol Analysis	
P2022-0223	1	BCK	Alcohol Analysis	
P2022-0239	1	BCK	Alcohol Analysis	



Worklist: 5569

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>
P2022-0241	1	BCK	Alcohol Analysis
P2022-0276	1	BCK	Alcohol Analysis
P2022-0283	1	BCK	Alcohol Analysis
P2022-0296	1	BCK	Alcohol Analysis
P2022-0302	1	BCK	Alcohol Analysis



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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): 2/4/22

Calibration Date: (if different)

Worklist #: 5569

Control Level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Jul-23	1907006	0.0764	0.0688-0.0840	0.0734 g/100cc
					0.0793 g/100cc
					0.0804 g/100cc
Level 2	Jul-23	1907007	0.2170	0.1953-0.2387	0.2144 g/100cc
					g/100cc
Multi-Component mixture:		Exp:	Oct-24	Lot #	FN06041902
Curve Fit:		Column 1	Column 1	Column 2	0.99996

Ethanol Calibration Reference Material

Calibrator level	Target Value	Acceptable Range	Column 1	Column 2	Precision	Mean
50	0.050	0.045 - 0.055	0.0503	0.0511	0.0008	0.0507
100	0.100	0.090 - 0.110	0.1001	0.1001	0	0.1001
200	0.200	0.180 - 0.220	0.1996	0.1987	0.0009	0.1991
300	0.300	0.270 - 0.330	0.2993	0.2988	0.0005	0.299
400	0.400	0.360 - 0.440			0	#DIV/0!
500	0.500	0.450 - 0.550	0.5004	0.5010	0.0006	0.5007
Internal Standard	Average	(-) 20%		(+) 20%		
N-Propanol:	150602.5	120482.0		180723.0		

Aqueous Controls

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

Internal Standard Monitoring Worksheet

Worksheet #: **5569** Run Date(s): **2/4/22**

Internal Standard Solution: 010522 Prep Date: 01/05/22 Exp Date: 07/05/22

Sample Name	Column 1 Value	Column 2 Value	Average
0.080	141565	151016	146290.5
0.080	141850	151288	146569
QC1	144331	153807	149069
QC1	142817	152594	147705.5
QC1	147347	158051	152699
QC1	149603	160312	154957.5
QC1	150022	160802	155412
QC1	156536	168496	162516
QC2	143732	153433	148582.5
QC2	137502	146946	142224
QC2			#DIV/0!
QC2			#DIV/0!
QC2			#DIV/0!
QC2			#DIV/0!
QC2			#DIV/0!

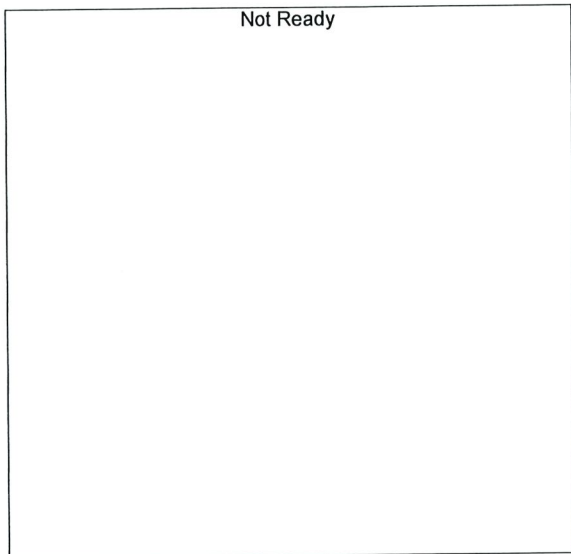
Combined Average	(-)20%	(+)20%
150602.5	120482.0	180723.0

JRC

Calibration Table

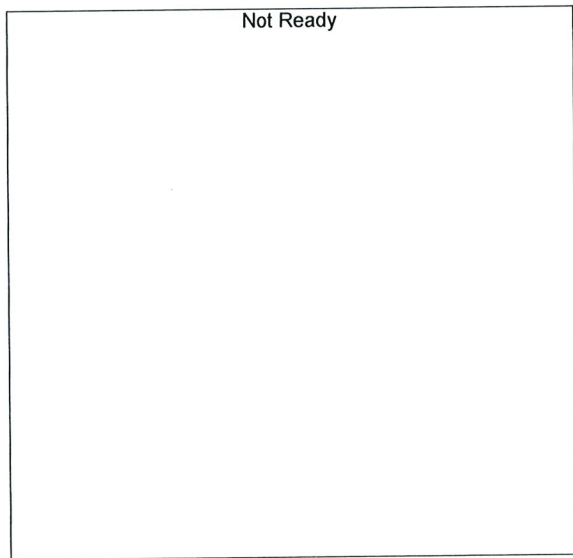
Laboratory: Pocatello
 Instrument Name : GC2030-HS20

<<Data File>>
 Method File :C:\LabSolutions\Data\2022\2-4-22 RC\ALCOHOL.gcm
 Batch File :C:\LabSolutions\Data\2022\2-4-22 RC\2-4-22 BATCH.gcb
 Date Acquired :2/4/2022 12:56:37 PM
 Date Created :2/4/2022 12:53:13 PM
 Date Modified :2/7/2022 11:02:06 AM



Name : METHANOL
 Detector Name: FID1
 Function : $f(x)=0*x+0$
 R² value= 0
 FitType: Linear
 ZeroThrough: Not Through

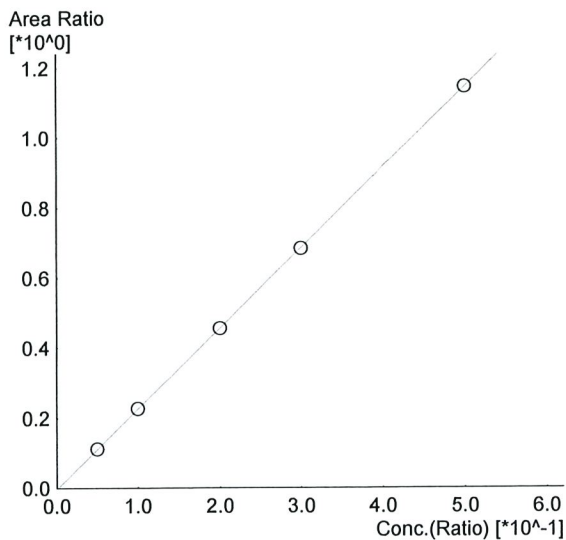
#	Conc.	Area	Std. Conc.	Data File Name
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Name : ACETALDEHYDE
 Detector Name: FID1
 Function : $f(x)=0*x+0$
 R² value= 0
 FitType: Linear
 ZeroThrough: Not Through

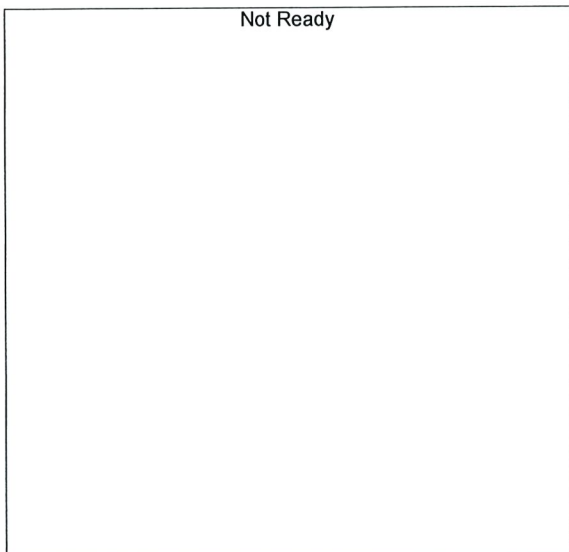
#	Conc.	Area	Std. Conc.	Data File Name
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JRC



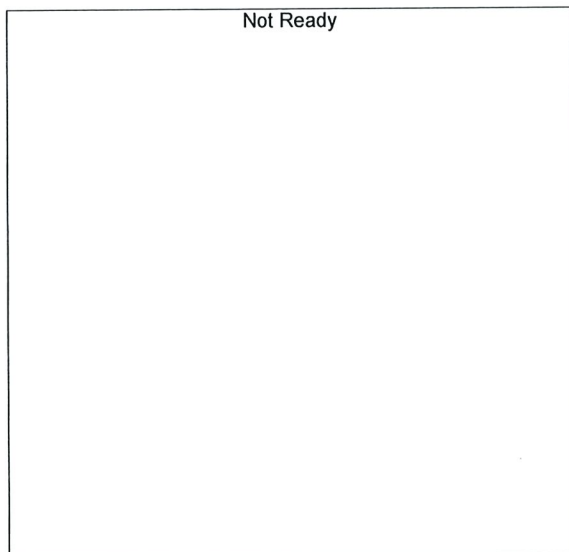
Name : ETHANOL
 Detector Name: FID1
 Function : $f(x)=2.29751*x-0.00383595$
 R² value= 0.9999924 ✓
 FitType: Linear
 ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.	Data File Name
1	0.050	15657	0.0503	0.050_242022_001.gcd
2	0.100	32286	0.1001	0.100_242022_002.gcd
3	0.200	65498	0.1996	0.200_242022_003.gcd
4	0.300	98544	0.2993	0.300_242022_004.gcd
5	0.500	166061	0.5004	0.500_242022_005.gcd



Name : ISOPROPYL ALCOHOL
 Detector Name: FID1
 Function : $f(x)=0*x+0$
 R² value= 0
 FitType: Linear
 ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.	Data File Name
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Name : ACETONE
 Detector Name: FID1
 Function : $f(x)=0*x+0$
 R² value= 0
 FitType: Linear
 ZeroThrough: Not Through

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

Not Ready

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

Not Ready

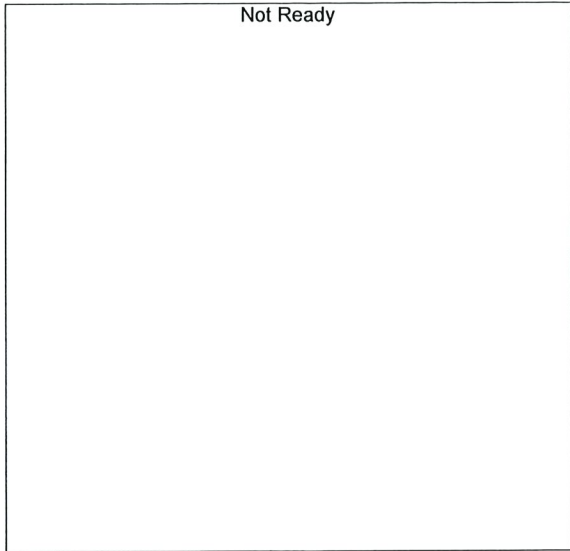
Name : TFE
Detector Name: FID1
Function : $f(x)=0*x+0$
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

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

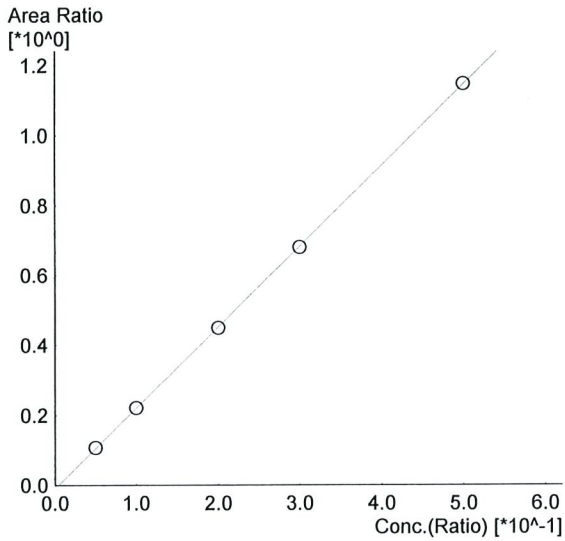
Name : ACETALDEHYDE
Detector Name: FID2
Function : $f(x)=0*x+0$
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.	Data File Name
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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 : $f(x)=2.31068*x-0.0107465$
 R^2 value= 0.9999601 ✓
 FitType: Linear
 ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.	Data File Name
1	0.050	16076	0.0511	0.050_242022_001.gcd
2	0.100	33517	0.1001	0.100_242022_002.gcd
3	0.200	68770	0.1987	0.200_242022_003.gcd
4	0.300	104241	0.2988	0.300_242022_004.gcd
5	0.500	176596	0.5010	0.500_242022_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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JHC

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

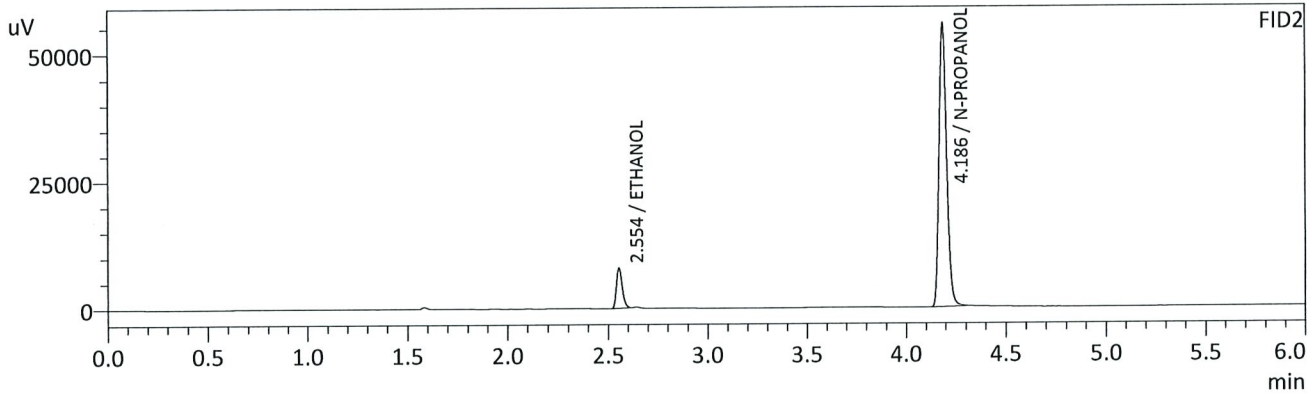
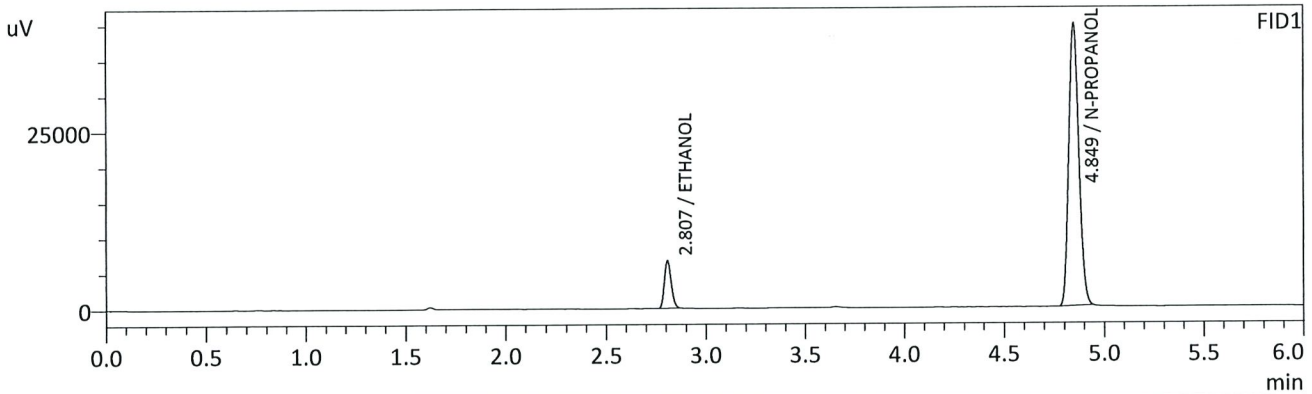
#	Conc.	Area	Std. Conc.	Data File Name
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Not Ready

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
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Sample Name : 0.050
 Vial # : 1
 Data Filename : 0.050_242022_001.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 2-4-22 BATCH.gcb
 Date Acquired : 2/4/2022 12:18:29 PM
 Date Processed : 2/7/2022 11:02:01 AM
 C:\LabSolutions\Data\2022\2-4-22 RC\ALCOHOL.gcm



FID1

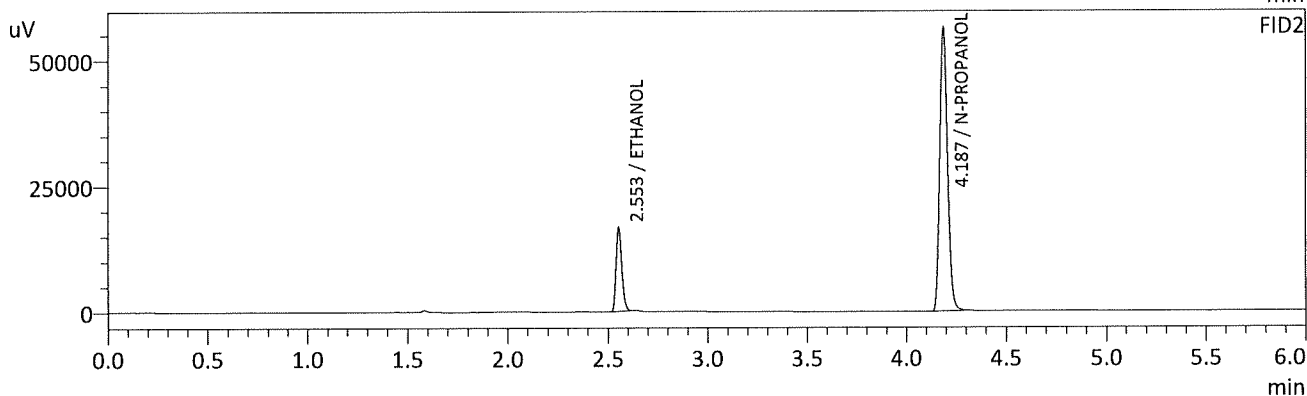
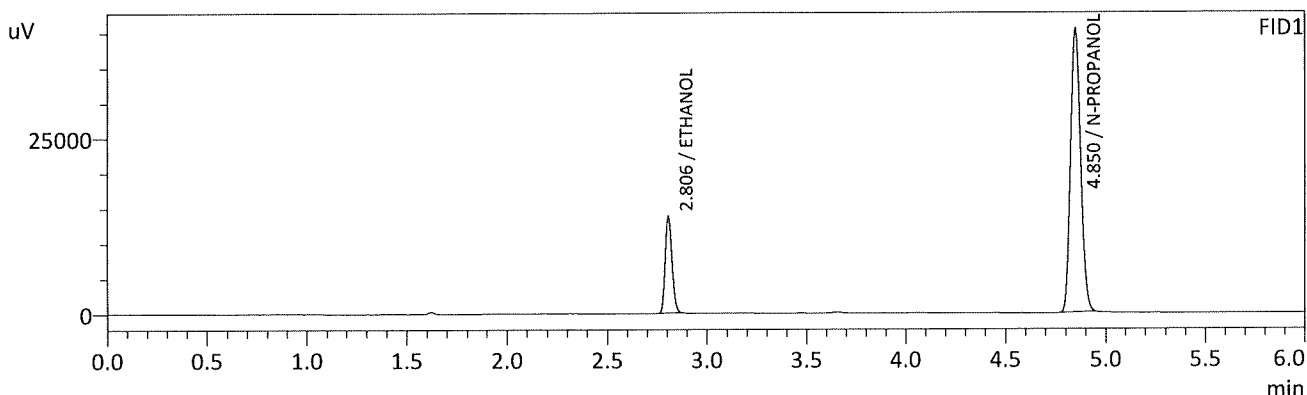
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0503	g/100cc	15657	6687
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	139914	39619
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0511	g/100cc	16076	7852
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	149630	55205
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

JRC

Sample Name : 0.100
 Vial # : 2
 Data Filename : 0.100_242022_002.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 2-4-22 BATCH.gcb
 Date Acquired : 2/4/2022 12:28:00 PM
 Date Processed : 2/7/2022 11:02:03 AM
 C:\LabSolutions\Data\2022\2-4-22 RC\ALCOHOL.gcm



FID1

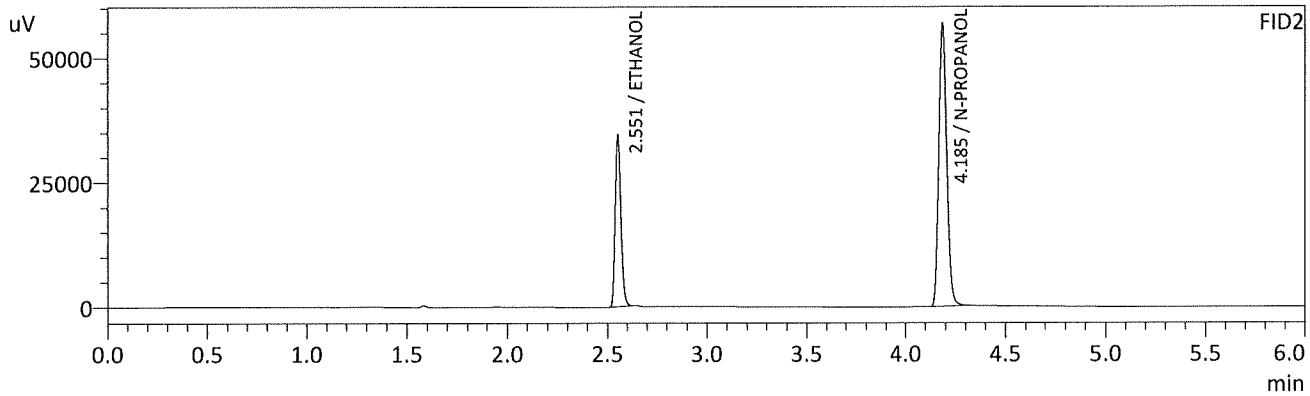
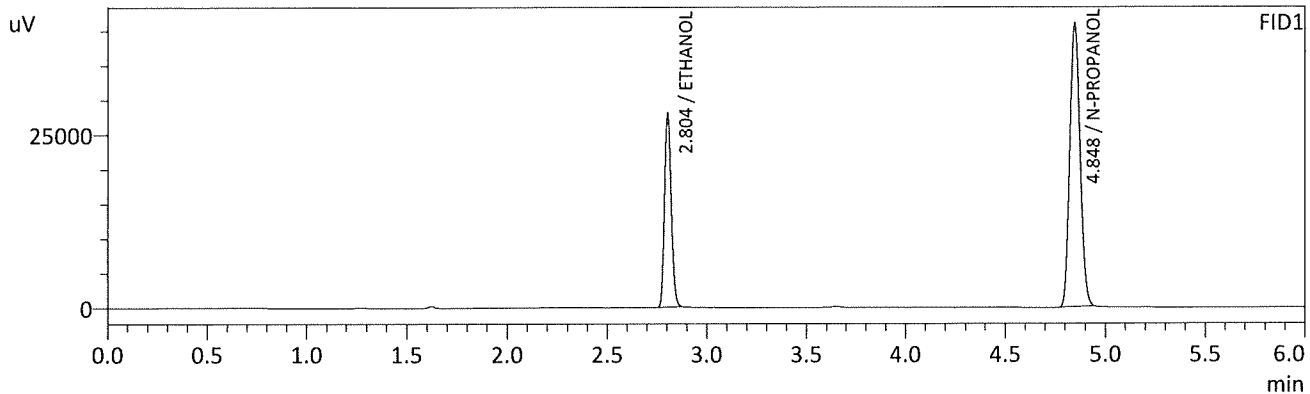
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.1001	g/100cc	32286	13687
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	142644	40285
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.1001	g/100cc	33517	16461
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	151842	56091
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

JAC

Sample Name : 0.200
 Vial # : 3
 Data Filename : 0.200_242022_003.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 2-4-22 BATCH.gcb
 Date Acquired : 2/4/2022 12:37:20 PM
 Date Processed : 2/7/2022 11:02:04 AM
 C:\LabSolutions\Data\2022\2-4-22 RC\ALCOHOL.gcm



FID1

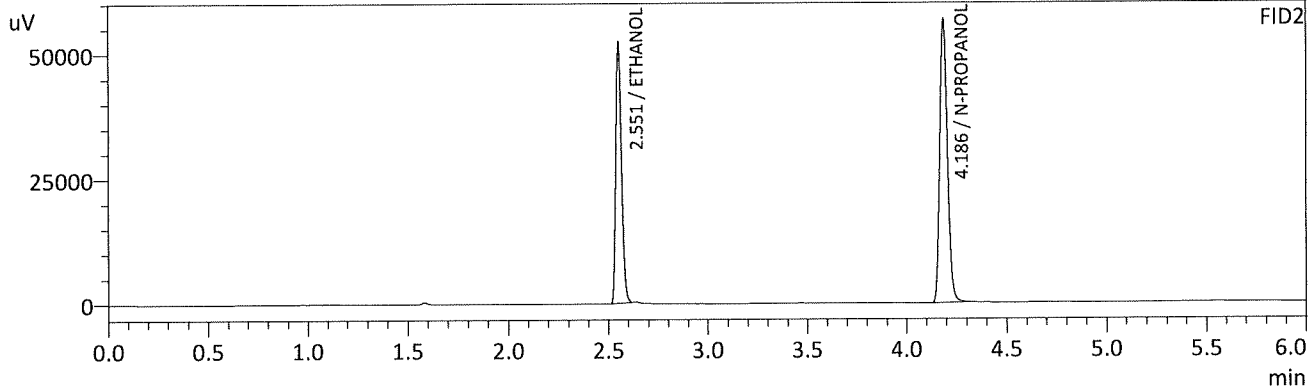
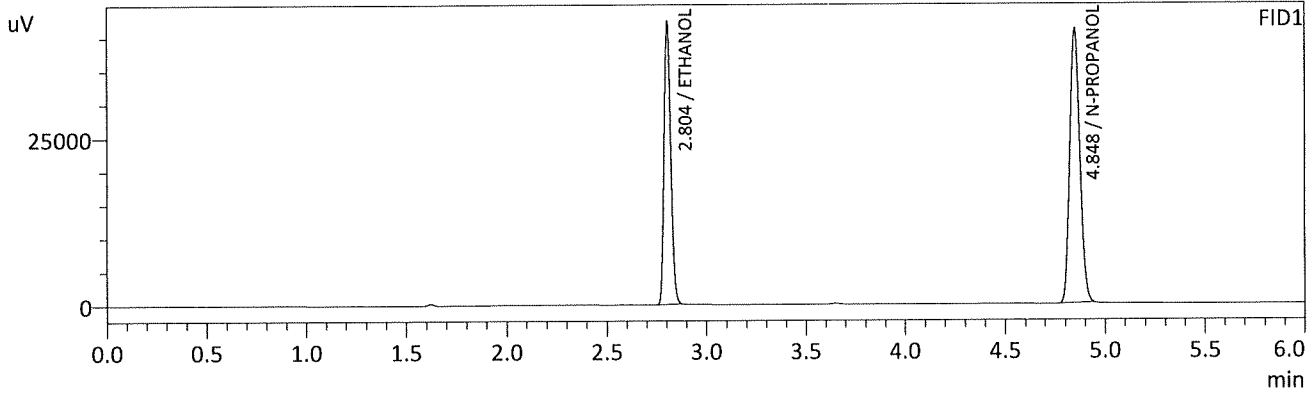
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.1996	g/100cc	65498	27838
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	144009	40840
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.1987	g/100cc	68770	34352
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	153298	56584
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

WFC

Sample Name : 0.300
 Vial # : 4
 Data Filename : 0.300_242022_004.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 2-4-22 BATCH.gcb
 Date Acquired : 2/4/2022 12:47:05 PM
 Date Processed : 2/7/2022 11:02:05 AM
 C:\LabSolutions\Data\2022\2-4-22 RC\ALCOHOL.gcm



FID1

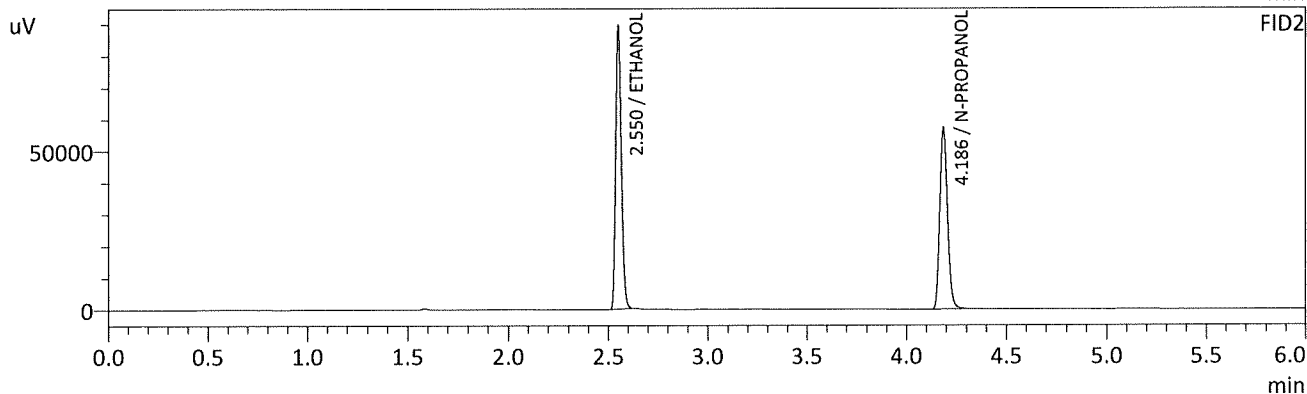
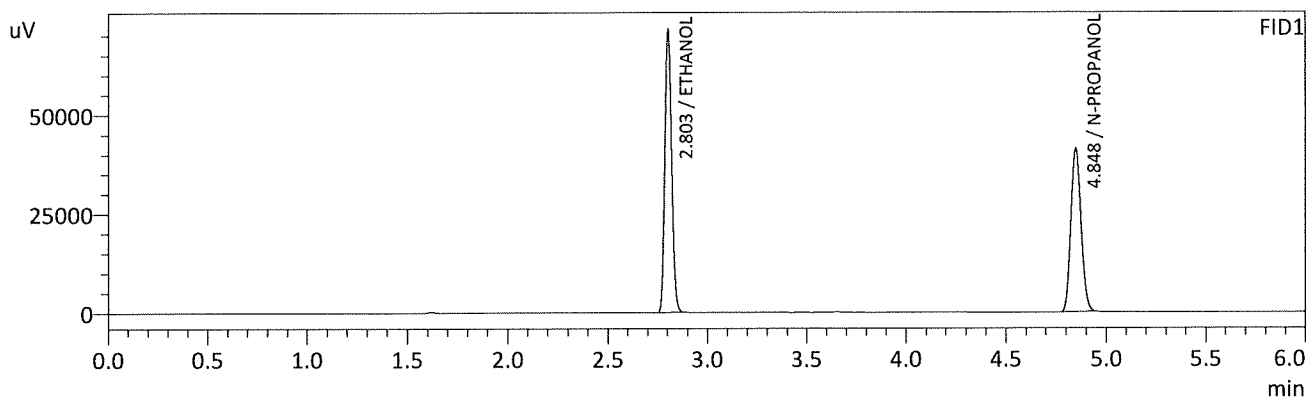
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.2993	g/100cc	98544	42141
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	144092	40905
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.2988	g/100cc	104241	52211
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	153333	56478
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

JAC

Sample Name : 0.500
 Vial # : 5
 Data Filename : 0.500_242022_005.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 2-4-22 BATCH.gcb
 Date Acquired : 2/4/2022 12:56:37 PM
 Date Processed : 2/7/2022 11:02:06 AM
 C:\LabSolutions\Data\2022\2-4-22 RC\ALCOHOL.gcm



FID1

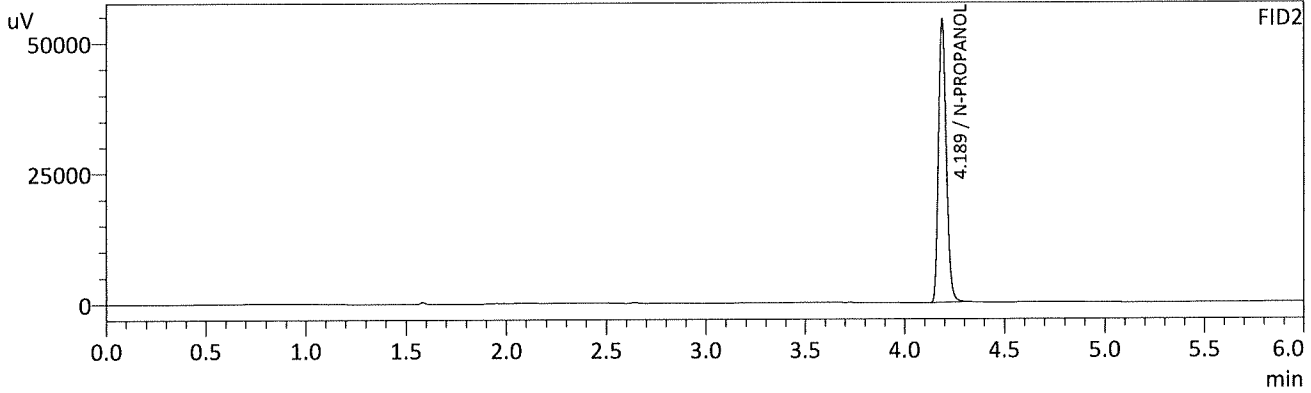
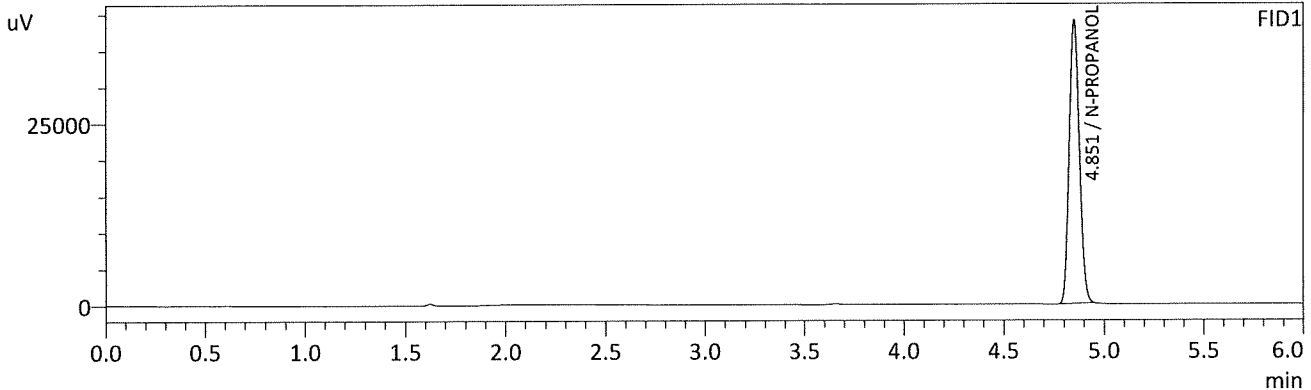
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.5004	g/100cc	166061	71361
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	144905	41171
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.5010	g/100cc	176596	88979
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	153973	56828
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

CAC

Sample Name : INT STD BLK 1
 Vial # : 6
 Data Filename : INT STD BLK 1_242022_006.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 2-4-22 BATCH.gcb
 Date Acquired : 2/4/2022 1:05:54 PM
 Date Processed : 2/7/2022 11:02:08 AM
 C:\LabSolutions\Data\2022\2-4-22 RC\ALCOHOL.gcm



FID1

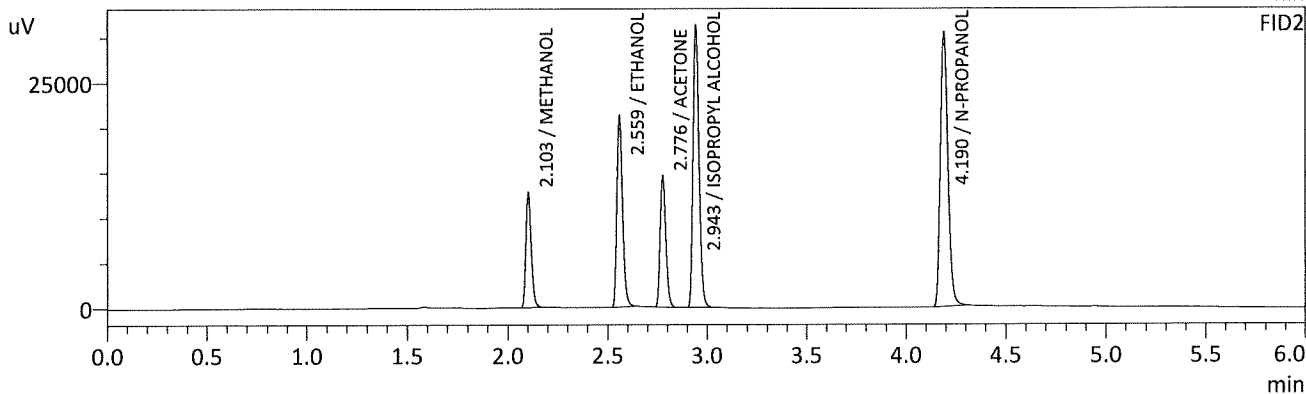
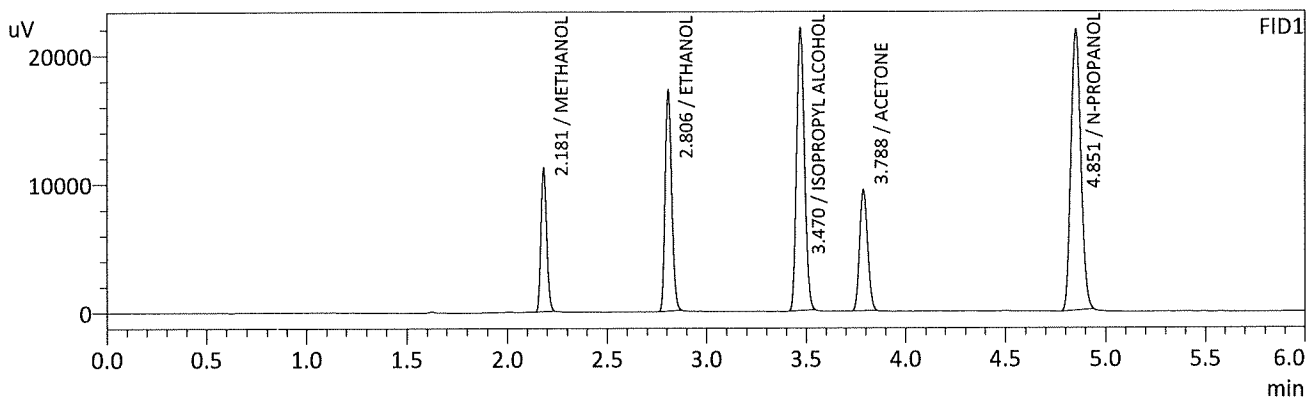
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	137022	38919
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

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	146059	54276
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

RC

Sample Name : MULTI-COMP MIX
 Vial # : 7
 Data Filename : MULTI-COMP MIX_242022_007.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 2-4-22 BATCH.gcb
 Date Acquired : 2/4/2022 1:15:38 PM
 Date Processed : 2/7/2022 11:02:09 AM
 C:\LabSolutions\Data\2022\2-4-22 RC\ALCOHOL.gcm



FID1

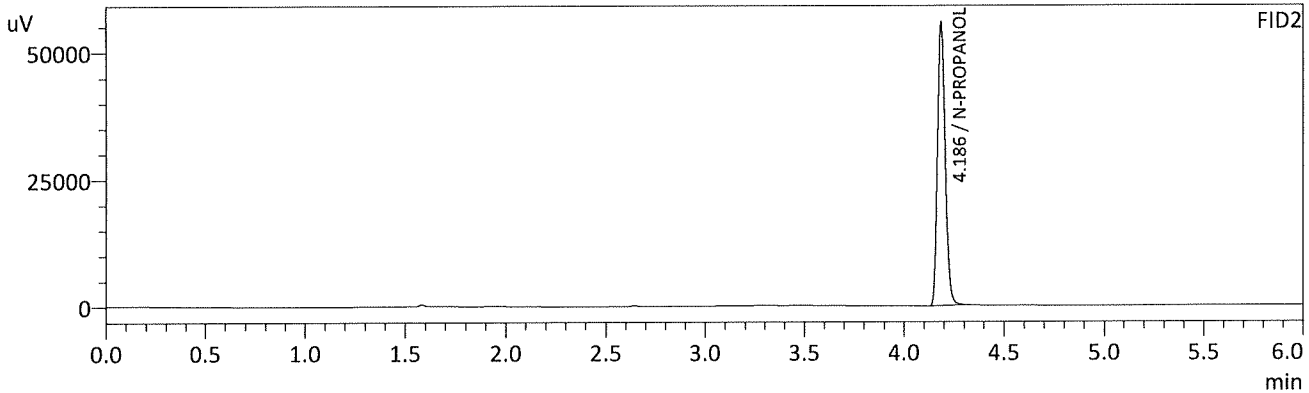
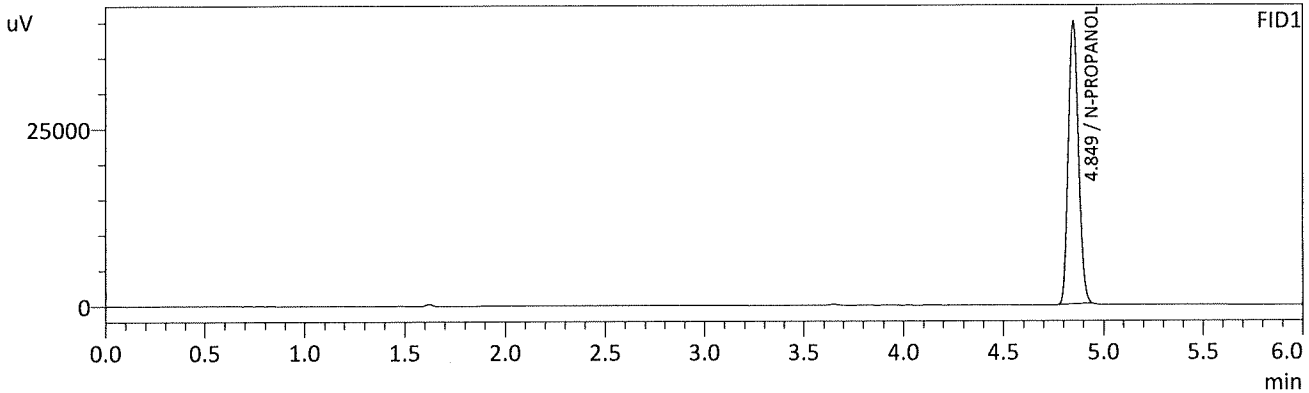
Name	Conc.	Unit	Area	Height
METHANOL	0.0000	g/100cc	22351	11120
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.2278	g/100cc	39429	17083
ISOPROPYL ALCOHOL	0.0000	g/100cc	60741	21949
ACETONE	0.0000	g/100cc	26641	9385
N-PROPANOL	0.0000	g/100cc	75866	21807
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	0.0000	g/100cc	23885	12697
ETHANOL	0.2299	g/100cc	42119	21053
ACETONE	0.0000	g/100cc	28934	14421
ISOPROPYL ALCOHOL	0.0000	g/100cc	65292	31199
N-PROPANOL	0.0000	g/100cc	80897	30339
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

BC

Sample Name : INT STD BLK 2
 Vial # : 8
 Data Filename : INT STD BLK 2_242022_008.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 2-4-22 BATCH.gcb
 Date Acquired : 2/4/2022 1:25:09 PM
 Date Processed : 2/7/2022 11:02:11 AM
 C:\LabSolutions\Data\2022\2-4-22 RC\ALCOHOL.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	140528	39780
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	149899	55306
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

BC

VOLATILES BAC CASEFILE WORKSHEET

Laboratory No.: QC 1 - 1

Item #

Analysis Date(s): 2/4/2022

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0732	0.0737	0.0005	0.0734	0.0000	0.0734
(g/100cc)	0.0733	0.0735	0.0002	0.0734		

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

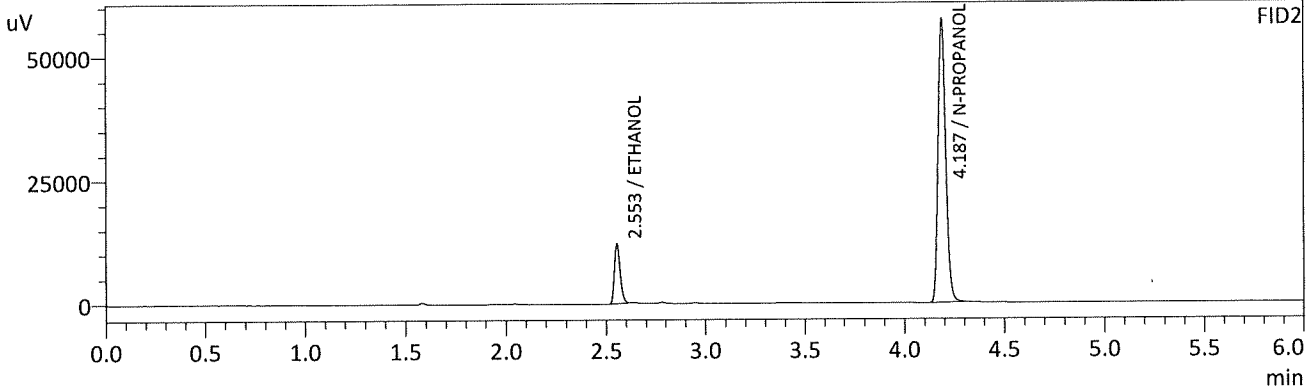
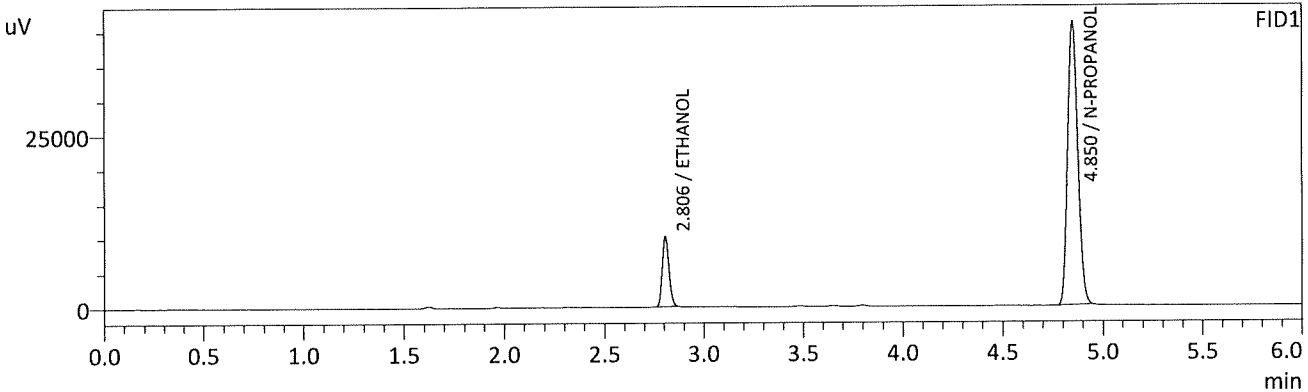
Uncertainty of Measurement (UM%): 5.00%

Overall Mean (g/100cc)	Low	High	5% of Mean
0.073	0.069	0.077	0.004

Reported Result	
0.073	

Calibration and control data are stored centrally.

Sample Name : QC-1-1-A
 Vial # : 9
 Data Filename : QC-1-1-A_242022_009.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 2-4-22 BATCH.gcb
 Date Acquired : 2/4/2022 1:34:28 PM
 Date Processed : 2/7/2022 11:02:12 AM
 C:\LabSolutions\Data\2022\2-4-22 RC\ALCOHOL.gcm



FID1

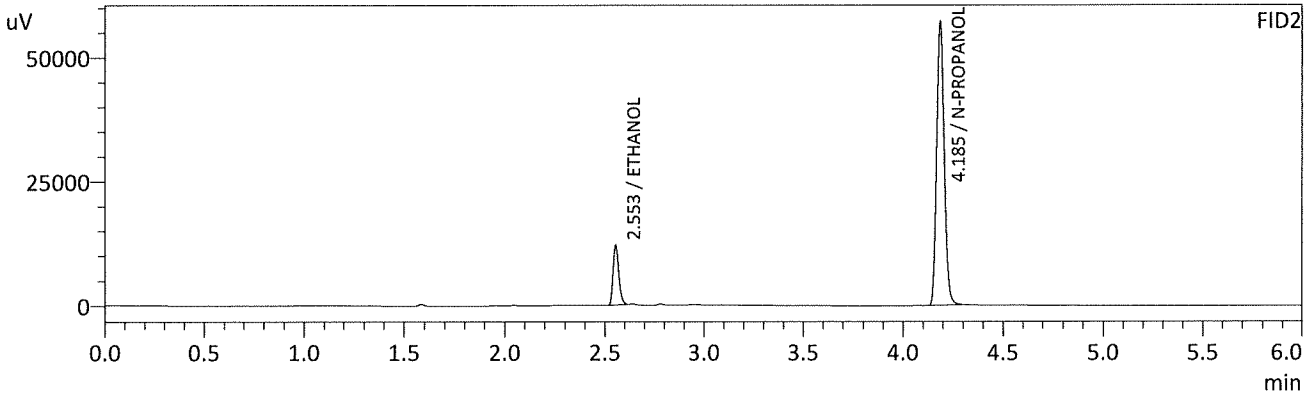
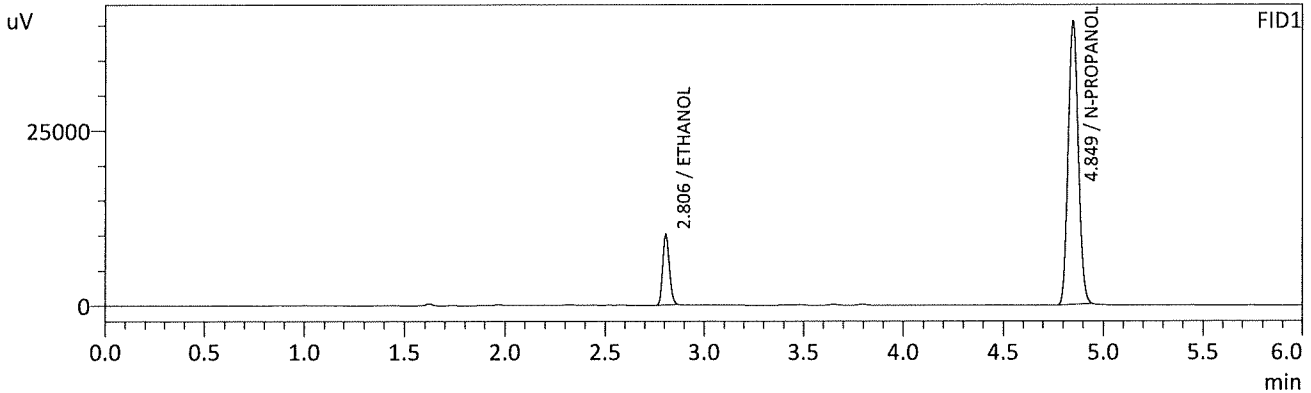
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0732	g/100cc	23731	10112
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	144331	40897
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0737	g/100cc	24571	11977
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	153807	57147
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

RC

Sample Name : QC-1-1-B
 Vial # : 10
 Data Filename : QC-1-1-B_242022_010.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 2-4-22 BATCH.gcb
 Date Acquired : 2/4/2022 1:44:13 PM
 Date Processed : 2/7/2022 11:02:13 AM
 C:\LabSolutions\Data\2022\2-4-22 RC\ALCOHOL.gcm



FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0733	g/100cc	23527	9997
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	142817	40273
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0735	g/100cc	24296	11903
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	152594	56980
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

BC

VOLATILES BAC CASEFILE WORKSHEET

Laboratory No.: 0.080 QA

Item #

Analysis Date(s): 2/4/2022

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0806	0.0809	0.0003	0.0807	0.0001	0.0807
(g/100cc)	0.0804	0.0809	0.0005	0.0806		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

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

Reporting of Results

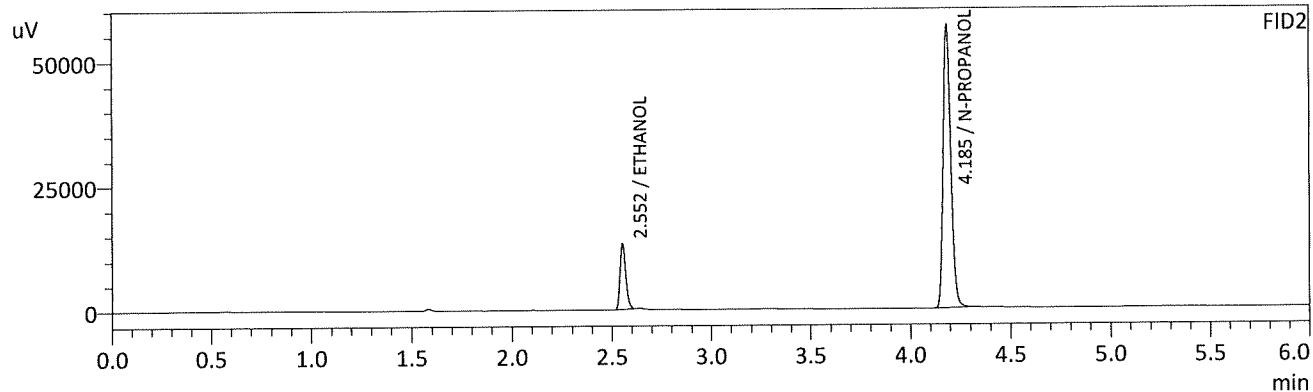
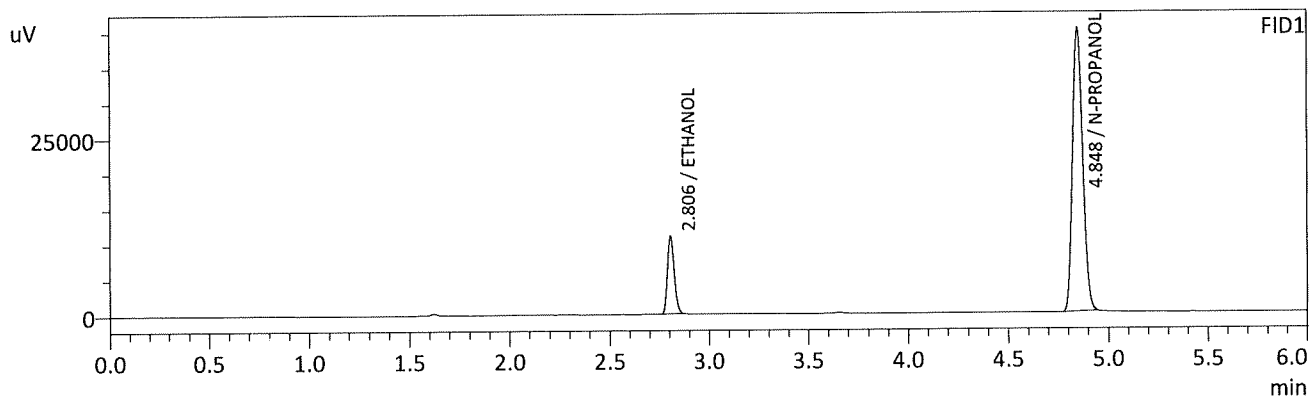
Uncertainty of Measurement (UM%): 5.00%

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

Reported Result	
0.080	

Calibration and control data are stored centrally.

Sample Name : 0.08 QA - A
 Vial # : 11
 Data Filename : 0.08 QA - A_242022_011.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 2-4-22 BATCH.gcb
 Date Acquired : 2/4/2022 1:53:43 PM
 Date Processed : 2/7/2022 11:02:14 AM
 C:\LabSolutions\Data\2022\2-4-22 RC\ALCOHOL.gcm



FID1

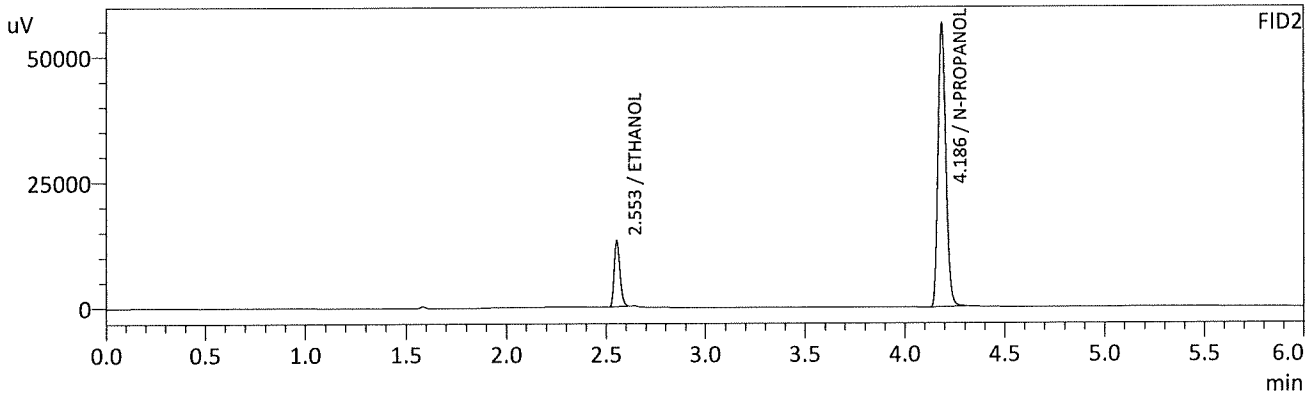
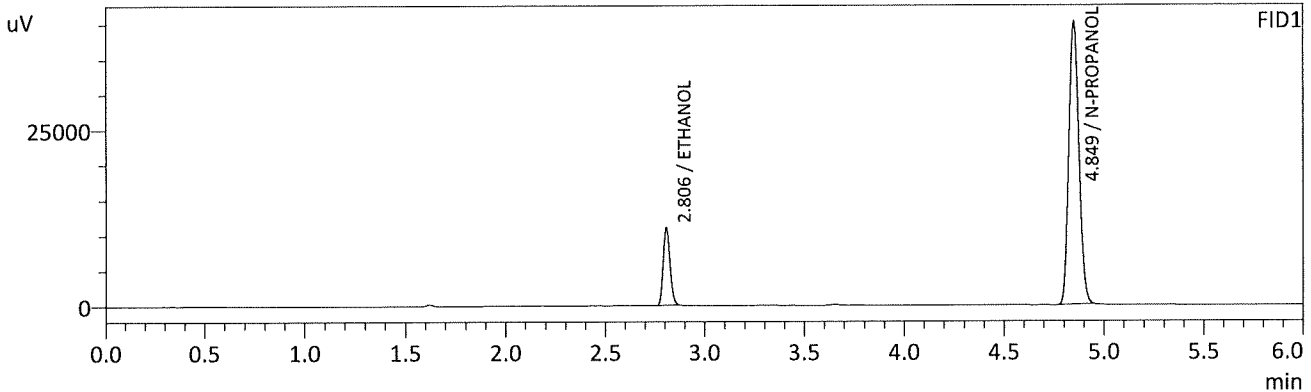
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0806	g/100cc	25681	10898
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	141565	39951
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0809	g/100cc	26614	13070
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	151016	56609
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

RC

Sample Name : 0.08 QA - B
 Vial # : 12
 Data Filename : 0.08 QA - B_242022_012.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 2-4-22 BATCH.gcb
 Date Acquired : 2/4/2022 2:03:01 PM
 Date Processed : 2/7/2022 11:02:16 AM
 C:\LabSolutions\Data\2022\2-4-22 RC\ALCOHOL.gcm



FID1

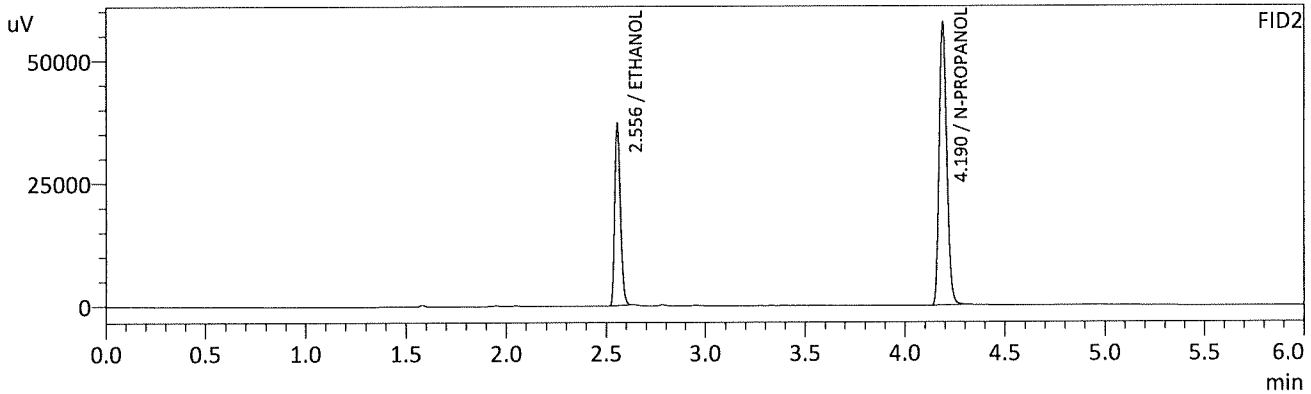
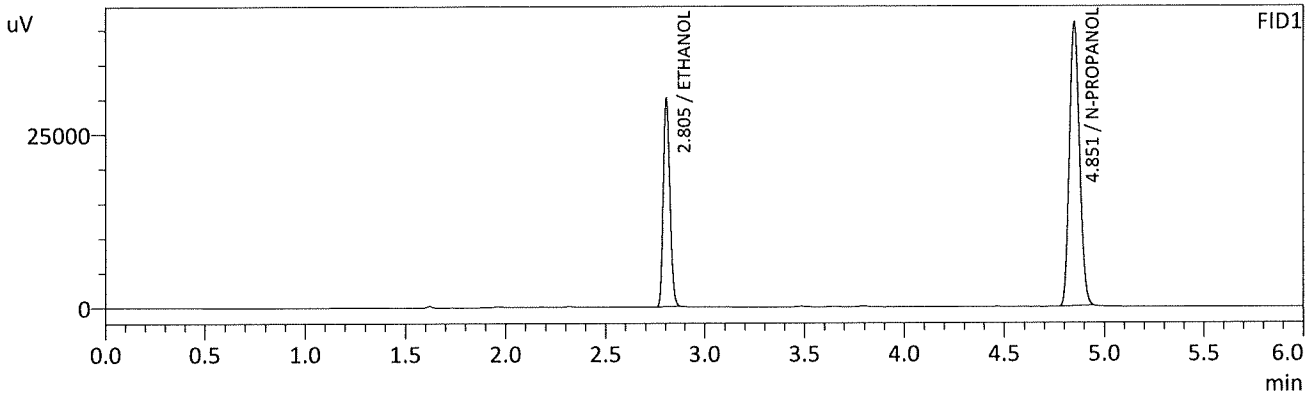
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0804	g/100cc	25675	10928
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	141850	40076
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0809	g/100cc	26673	13029
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	151288	56141
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

BC

Sample Name : QC-2-1-A
 Vial # : 31
 Data Filename : QC-2-1-A_242022_031.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 2-4-22 BATCH.gcb
 Date Acquired : 2/4/2022 5:04:04 PM
 Date Processed : 2/7/2022 11:02:40 AM
 C:\LabSolutions\Data\2022\2-4-22 RC\ALCOHOL.gcm



FID1

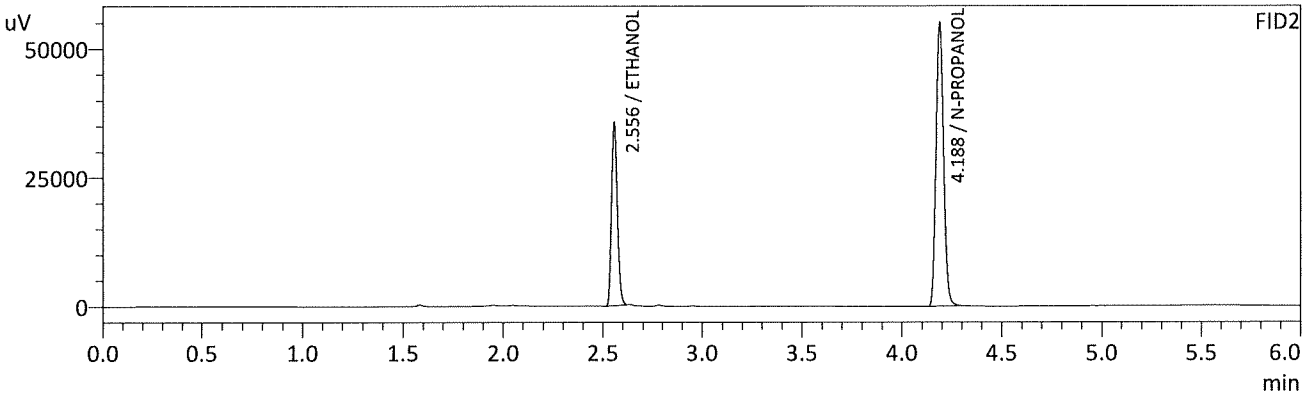
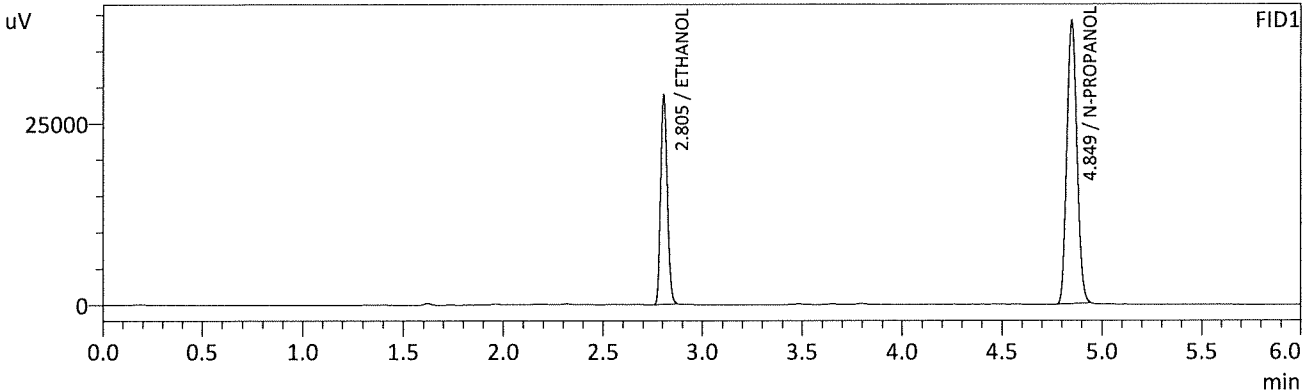
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.2149	g/100cc	70416	29753
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	143732	40866
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.2133	g/100cc	73997	36931
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	153433	57466
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

RC

Sample Name : QC-2-1-B
 Vial # : 32
 Data Filename : QC-2-1-B_242022_032.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 2-4-22 BATCH.gcb
 Date Acquired : 2/4/2022 5:13:36 PM
 Date Processed : 2/7/2022 11:02:41 AM
 C:\LabSolutions\Data\2022\2-4-22 RC\ALCOHOL.gcm



FID1

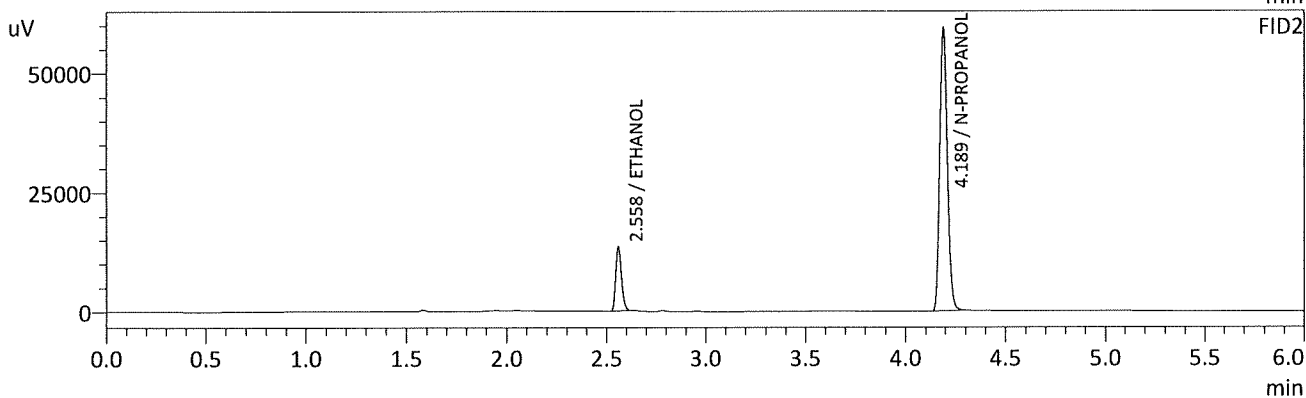
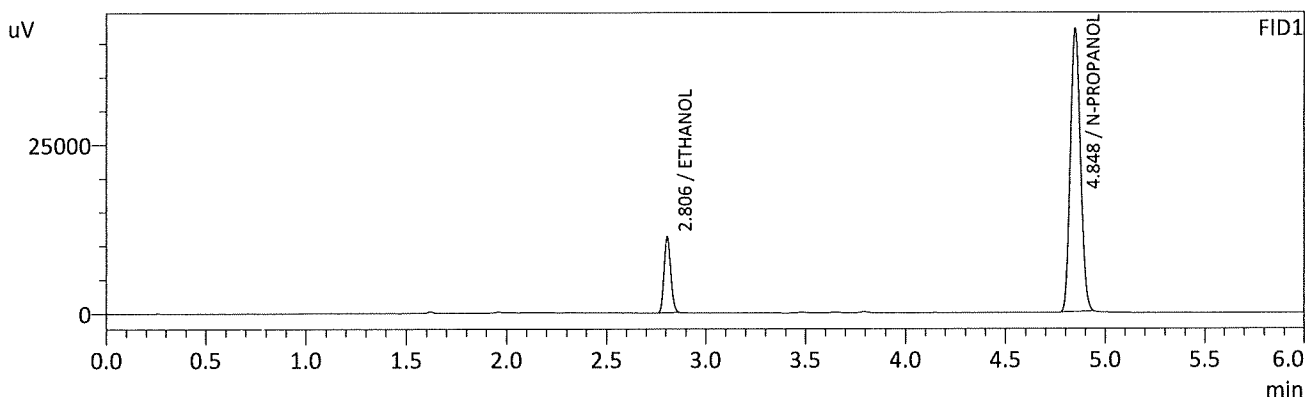
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.2156	g/100cc	67612	28517
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	137502	38895
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.2139	g/100cc	71072	35461
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	146946	54963
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

BC

Sample Name : QC1-2-A
 Vial # : 53
 Data Filename : QC1-2-A_242022_053.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 2-4-22 BATCH.gcb
 Date Acquired : 2/4/2022 8:33:27 PM
 Date Processed : 2/7/2022 11:03:06 AM
 C:\LabSolutions\Data\2022\2-4-22 RC\ALCOHOL.gcm



FID1

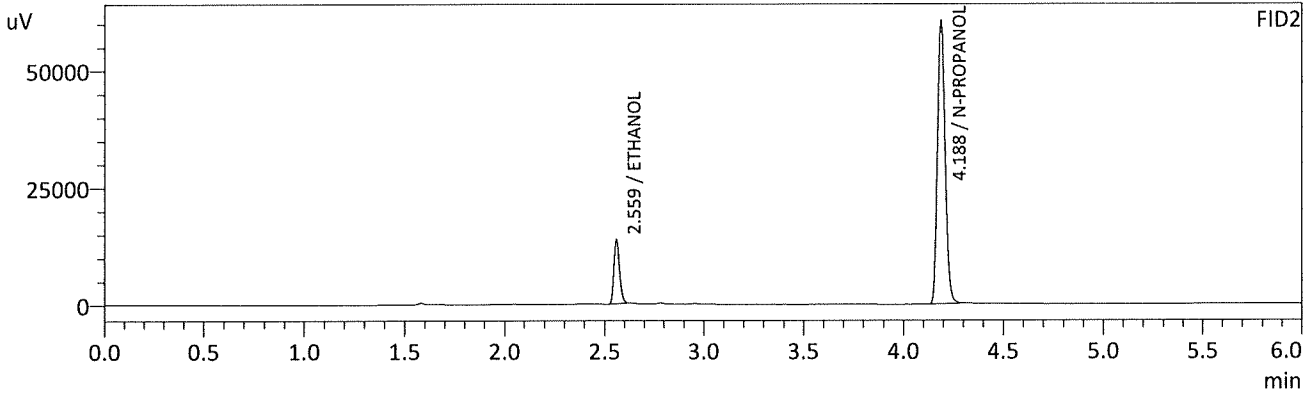
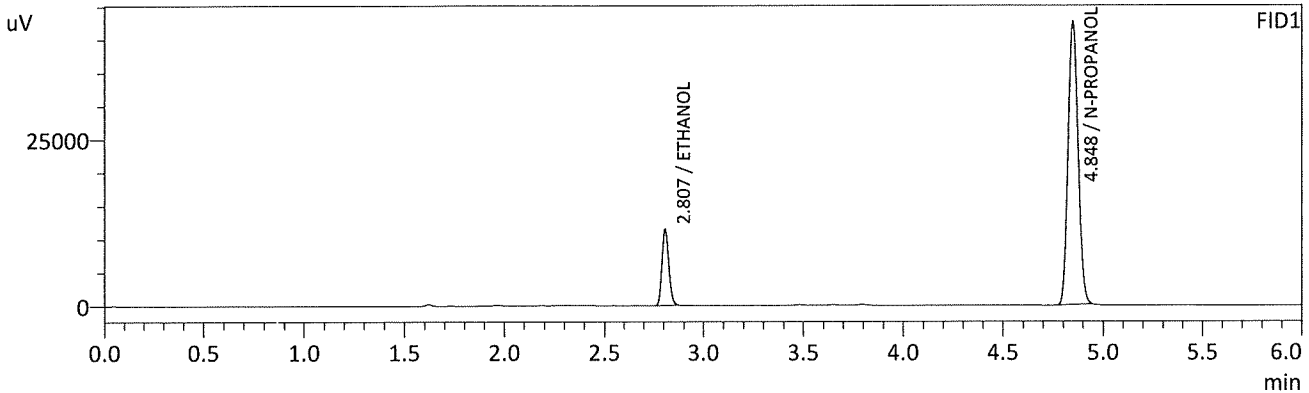
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0791	g/100cc	26240	11167
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	147347	41810
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0788	g/100cc	27083	13296
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	158051	59349
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

RC

Sample Name : QC1-2-B
 Vial # : 54
 Data Filename : QC1-2-B_242022_054.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 2-4-22 BATCH.gcb
 Date Acquired : 2/4/2022 8:42:44 PM
 Date Processed : 2/7/2022 11:03:07 AM
 C:\LabSolutions\Data\2022\2-4-22 RC\ALCOHOL.gcm



FID1

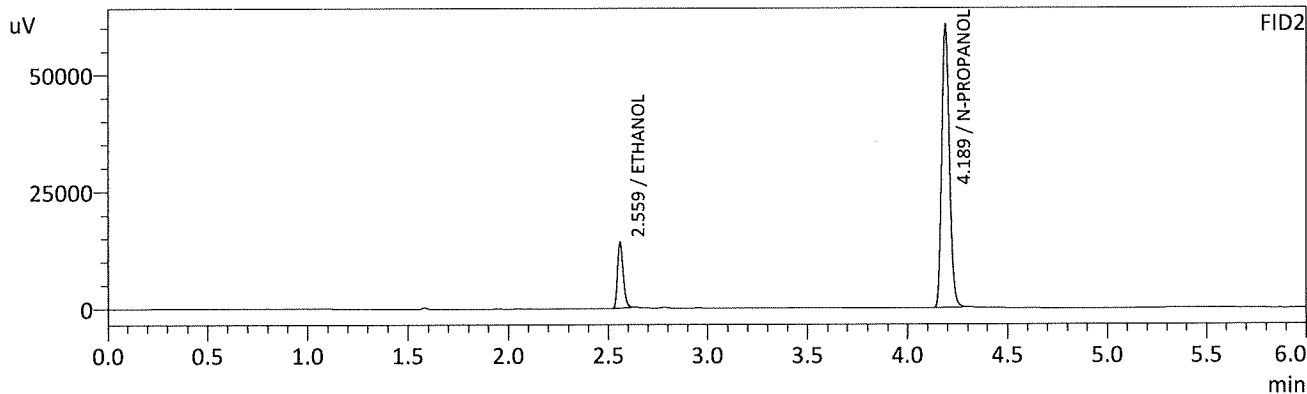
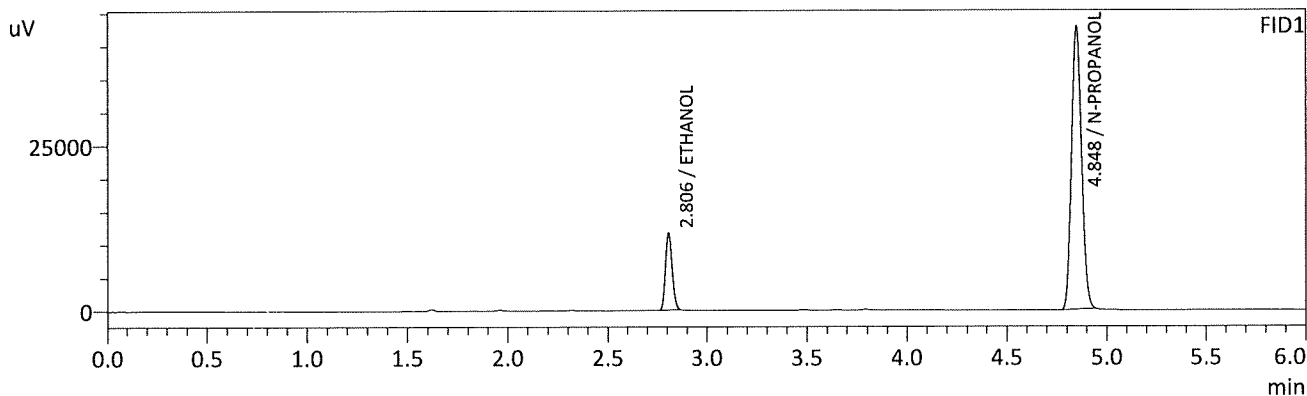
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0800	g/100cc	26950	11435
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	149603	42446
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0793	g/100cc	27665	13666
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	160312	60440
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

BC

Sample Name : QC1-3-A
 Vial # : 71
 Data Filename : QC1-3-A_242022_071.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 2-4-22 BATCH.gcb
 Date Acquired : 2/4/2022 11:24:40 PM
 Date Processed : 2/7/2022 11:03:28 AM
 C:\LabSolutions\Data\2022\2-4-22 RC\ALCOHOL.gcm



FID1

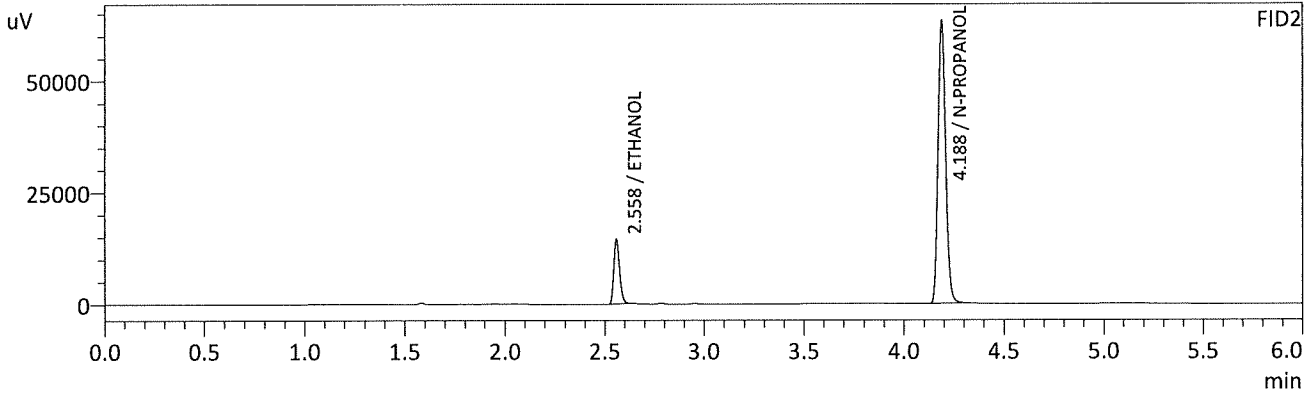
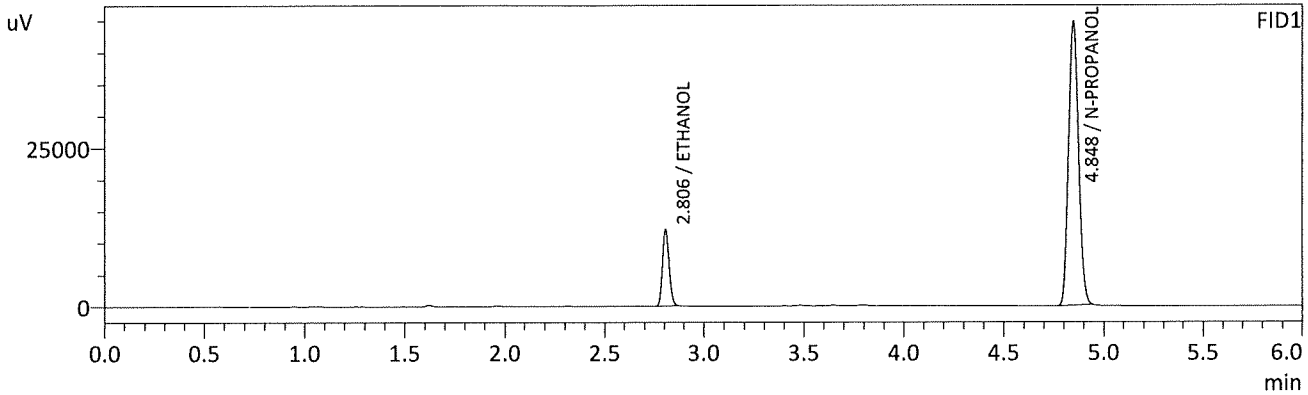
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0809	g/100cc	27343	11626
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	150022	42650
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0807	g/100cc	28263	14017
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	160802	60466
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

BC

Sample Name : QC1-3-B
 Vial # : 72
 Data Filename : QC1-3-B_242022_072.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 2-4-22 BATCH.gcb
 Date Acquired : 2/4/2022 11:33:58 PM
 Date Processed : 2/7/2022 11:03:29 AM
 C:\LabSolutions\Data\2022\2-4-22 RC\ALCOHOL.gcm



FID1

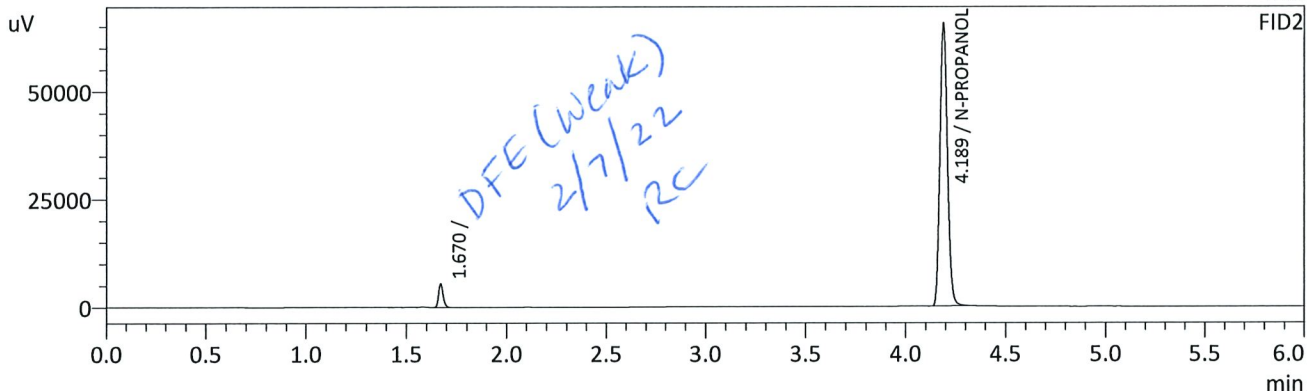
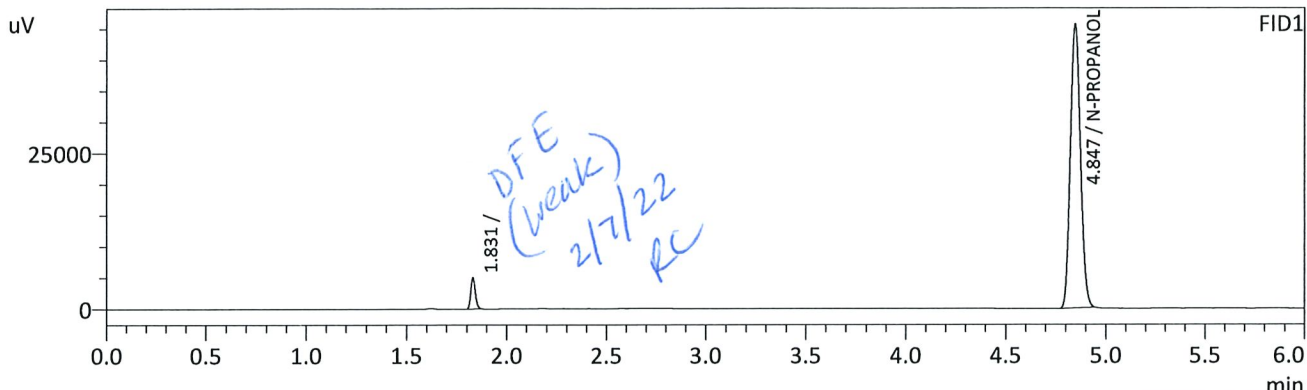
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0805	g/100cc	28381	12007
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	156536	44647
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0796	g/100cc	29213	14327
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	168496	63257
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

BC

Sample Name : DFE
 Vial # : 73
 Data Filename : DFE_242022_073.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 2-4-22 BATCH.gcb
 Date Acquired : 2/4/2022 11:43:44 PM
 Date Processed : 2/7/2022 11:03:30 AM
 C:\LabSolutions\Data\2022\2-4-22 RC\ALCOHOL.gcm



FID1

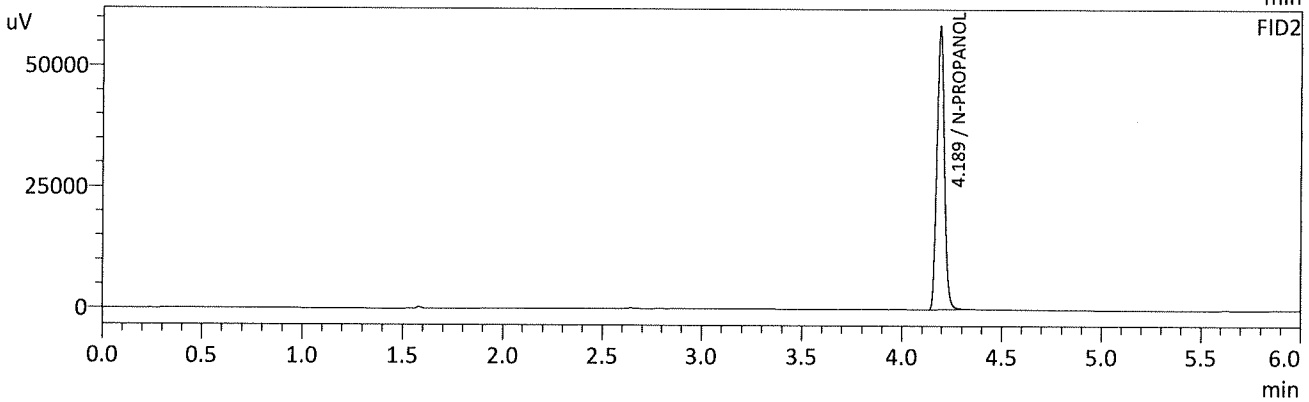
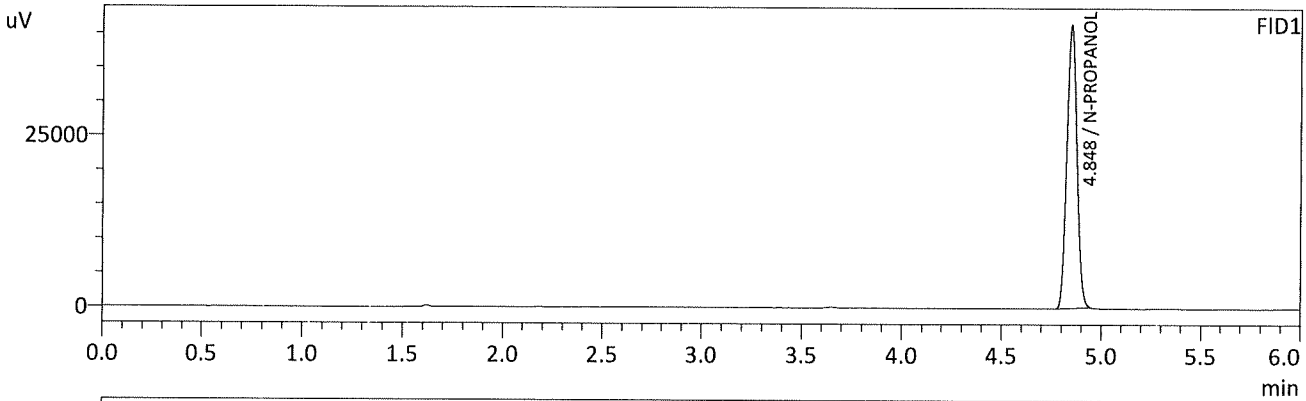
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	158281	45546
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

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	171605	65398
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

RC

Sample Name : INT STD BLK 3
 Vial # : 74
 Data Filename : INT STD BLK 3_242022_074.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 2-4-22 BATCH.gcb
 Date Acquired : 2/4/2022 11:53:12 PM
 Date Processed : 2/7/2022 11:03:31 AM
 C:\LabSolutions\Data\2022\2-4-22 RC\ALCOHOL.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	144865	41279
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	155457	58442
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

RC

Region 5 Pocatello Blood Alcohol Analysis Batch Table

Shimadzu Nexis GC-2030 Serial Number: C12255850662

Shimadzu HS-20 Serial Number: C12595700014

LabSolutions Version 5.98

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Vial#	Sample Name	Sample Type	Method File	Data File	Level#
1	0.050	1:Standard:(I)	ALCOHOL.gcm		1
2	0.100	1:Standard:(R)	ALCOHOL.gcm		2
3	0.200	1:Standard:(R)	ALCOHOL.gcm		3
4	0.300	1:Standard:(R)	ALCOHOL.gcm		4
5	0.500	1:Standard:(R)	ALCOHOL.gcm		5
6	INT STD BLK 1	0:Unknown	ALCOHOL.gcm		0
7	MULTI-COMP MIX	0:Unknown	ALCOHOL.gcm	MULTI-COMP MIX_1292021_001.gcd	1
8	INT STD BLK 2	0:Unknown	ALCOHOL.gcm		0
9	QC-1-1-A	0:Unknown	ALCOHOL.gcm		0
10	QC-1-1-B	0:Unknown	ALCOHOL.gcm		0
11	0.08 QA - A	0:Unknown	ALCOHOL.gcm		0
12	0.08 QA - B	0:Unknown	ALCOHOL.gcm		0
13	P2021-4200-1-A	0:Unknown	ALCOHOL.gcm		0
14	P2021-4200-1-B	0:Unknown	ALCOHOL.gcm		0
15	P2022-0034-2-A	0:Unknown	ALCOHOL.gcm		0
16	P2022-0034-2-B	0:Unknown	ALCOHOL.gcm		0
17	P2022-0035-1-A	0:Unknown	ALCOHOL.gcm		0
18	P2022-0035-1-B	0:Unknown	ALCOHOL.gcm		0
19	P2022-0040-1-A	0:Unknown	ALCOHOL.gcm		0
20	P2022-0040-1-B	0:Unknown	ALCOHOL.gcm		0
21	P2022-0049-1-A	0:Unknown	ALCOHOL.gcm		0
22	P2022-0049-1-B	0:Unknown	ALCOHOL.gcm		0
23	P2022-0050-1-A	0:Unknown	ALCOHOL.gcm		0
24	P2022-0050-1-B	0:Unknown	ALCOHOL.gcm		0
25	P2022-0072-1-A	0:Unknown	ALCOHOL.gcm		0
26	P2022-0072-1-B	0:Unknown	ALCOHOL.gcm		0
27	P2022-0073-1-A	0:Unknown	ALCOHOL.gcm		0
28	P2022-0073-1-B	0:Unknown	ALCOHOL.gcm		0
29	P2022-0074-1-A	0:Unknown	ALCOHOL.gcm		0
30	P2022-0074-1-B	0:Unknown	ALCOHOL.gcm		0
31	QC-2-1-A	0:Unknown	ALCOHOL.gcm		0
32	QC-2-1-B	0:Unknown	ALCOHOL.gcm		0
33	P2022-0090-1-A	0:Unknown	ALCOHOL.gcm		0
34	P2022-0090-1-B	0:Unknown	ALCOHOL.gcm		0
35	P2022-0109-1-A	0:Unknown	ALCOHOL.gcm		0
36	P2022-0109-1-B	0:Unknown	ALCOHOL.gcm		0
37	P2022-0110-1-A	0:Unknown	ALCOHOL.gcm		0
38	P2022-0110-1-B	0:Unknown	ALCOHOL.gcm		0
39	P2022-0111-1-A	0:Unknown	ALCOHOL.gcm		0
40	P2022-0111-1-B	0:Unknown	ALCOHOL.gcm		0
41	P2022-0123-1-A	0:Unknown	ALCOHOL.gcm		0
42	P2022-0123-1-B	0:Unknown	ALCOHOL.gcm		0
43	P2022-0160-1-A	0:Unknown	ALCOHOL.gcm		0
44	P2022-0160-1-B	0:Unknown	ALCOHOL.gcm		0
45	P2022-0164-1-A	0:Unknown	ALCOHOL.gcm		0
46	P2022-0164-1-B	0:Unknown	ALCOHOL.gcm		0
47	P2022-0187-1-A	0:Unknown	ALCOHOL.gcm		0
48	P2022-0187-1-B	0:Unknown	ALCOHOL.gcm		0
49	P2022-0188-1-A	0:Unknown	ALCOHOL.gcm		0
50	P2022-0188-1-B	0:Unknown	ALCOHOL.gcm		0
51	P2022-0216-1-A	0:Unknown	ALCOHOL.gcm		0
52	P2022-0216-1-B	0:Unknown	ALCOHOL.gcm		0

RC

Vial#	Sample Name	Sample Type	Method File	Data File	Level#
53	QC1-2-A	0:Unknown	ALCOHOL.gcm		0
54	QC1-2-B	0:Unknown	ALCOHOL.gcm		0
55	P2022-0221-1-A	0:Unknown	ALCOHOL.gcm		0
56	P2022-0221-1-B	0:Unknown	ALCOHOL.gcm		0
57	P2022-0223-1-A	0:Unknown	ALCOHOL.gcm		0
58	P2022-0223-1-B	0:Unknown	ALCOHOL.gcm		0
59	P2022-0239-1-A	0:Unknown	ALCOHOL.gcm		0
60	P2022-0239-1-B	0:Unknown	ALCOHOL.gcm		0
61	P2022-0241-1-A	0:Unknown	ALCOHOL.gcm		0
62	P2022-0241-1-B	0:Unknown	ALCOHOL.gcm		0
63	P2022-0276-1-A	0:Unknown	ALCOHOL.gcm		0
64	P2022-0276-1-B	0:Unknown	ALCOHOL.gcm		0
65	P2022-0283-1-A	0:Unknown	ALCOHOL.gcm		0
66	P2022-0283-1-B	0:Unknown	ALCOHOL.gcm		0
67	P2022-0296-1-A	0:Unknown	ALCOHOL.gcm		0
68	P2022-0296-1-B	0:Unknown	ALCOHOL.gcm		0
69	P2022-0302-1-A	0:Unknown	ALCOHOL.gcm		0
70	P2022-0302-1-B	0:Unknown	ALCOHOL.gcm		0
71	QC1-3-A	0:Unknown	ALCOHOL.gcm		0
72	QC1-3-B	0:Unknown	ALCOHOL.gcm		0
73	DFE	0:Unknown	ALCOHOL.gcm		0
74	INT STD BLK 3	0:Unknown	ALCOHOL.gcm		0

**Idaho State Police
Forensic Services**

Request for Departure from an Analytical Method or Quality Standard

Deviation Number (assigned by QM):

Date of Request: 1/21/2022

Requestor/Discipline: Melissa (Nikka) Bradley/Blood Alcohol

Analytical Method/Quality Standard, Revision #: AM#1 Analysis for Volatiles by Headspace GC/ 4.3.9

Temporary or Permanent Deviation: Permanent

Scope of Deviation There is a noticeable increased drift of internal standard (n-propanol signals) from the calibrators, beginning of the run and towards the end of the sample run that is consistent in multiple batches of blood alcohol runs. Because all the samples that are analyzed are being compared to calibrators that are performed at the beginning of the run, the n-propanol signal of end samples tend to be outside or close to being outside of the +/- 20% of the mean value from the calibration curve used. Despite this drift the values of known control samples are within acceptable limits.

Deviation Request

4.3.9.1.1 The average values for the internal standard will be established by averaging the IS counts throughout the calibration curve samples.

Requesting that the internal standard monitoring average be changed to average the aqueous and matrix controls within the run.

4.3.9.1.1 The average values for the internal standard will be established by averaging the IS counts from the aqueous control and all matrix blood control samples.

Technical Justification for Analytical Method Deviations:

The designed purpose of the internal standard monitoring is to evaluate the quality of injection of each sample. There is a gradual increase of internal standard response from the beginning of the batch (calibrators and early samples) to the end that is inherent to the current instrument set up as shown in trends from previous batches in multiple laboratories. Attempts to pre-condition/warm up the instrument using by running a pre-batch sequence utilizing old calibrator/blank samples prior to running a new calibration curve did not appear to minimize this occurrence. Furthermore, it can be seen that the drifting trend is not due to the extraction procedure because some of the later batch samples were extracted prior to the samples that are injected during the run. It is worth noting that despite this

bc

trend, the values of the known control samples are still within the specified acceptable range. By utilizing known control n-propanol signals throughout the batch, any potential drift will be taken into account while still being able to monitor a possible mis-injection or partial injection throughout the batch/sequence.

This deviation will have an expiration date of July 1st, 2022.

Technical Review

Departure approved

Comments: Forms will be updated to reflect the new process concurrent with the deviation.

Departure Not Approved

Comments:

Approver: 
Title: Discipline Lead

Date: 1/21/22

Quality Review

Quality Approver:

Title:

Date:

RC