






**APPROVED**

*By John Garner at 3:20 pm, Mar 10, 2022*

3/10/2022

**Worklist: 5673**

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
M2022-0615	1	BCK	BATS Proficiency Test	
M2022-0615	2	BCK	BATS Proficiency Test	
M2022-0615	3	BCK	BATS Proficiency Test	
M2022-0615	4	BCK	BATS Proficiency Test	
M2022-0887	1	BCK	Alcohol Analysis	
M2022-0893	1	BCK	Alcohol Analysis	
M2022-0895	1	BCK	Alcohol Analysis	
M2022-0896	1	BCK	Alcohol Analysis	
M2022-0897	1	BCK	Alcohol Analysis	
M2022-0898	1	BCK	Alcohol Analysis	
M2022-0900	1	BCK	Alcohol Analysis	
M2022-0926	1	BCK	Alcohol Analysis	
M2022-0929	1	BCK	Alcohol Analysis	
M2022-0948	1	BCK	Alcohol Analysis	
M2022-0961	1	BCK	Alcohol Analysis	
M2022-0993	1	BCK	Alcohol Analysis	
M2022-1000	1	BCK	Alcohol Analysis	
P2022-0486	1	BCK	Alcohol Analysis	
P2022-0489	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: L600HC11378

Volatiles Quality Assurance Controls Run Date(s): 3/9/2022

Calibration Date: 3/9/2022

Worklist #: 5673

Control Level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results	
Level 1	Jul-23	1907006	0.0764	0.0688-0.0840	0.0727 g/100cc	
					0.0772 g/100cc	
Level 2	Jul-23	1907007	0.2170	0.1953-0.2387	0.2139 g/100cc	
					g/100cc	
Multi-Component mixture:		Exp:	Jul-22	Lot #	FN07101701	
Curve Fit:		Column 1	Column 1	0.99992	Column2	0.99997

Ethanol Calibration Reference Material

Calibrator Level	Target Value	Acceptable Range	Column 1	Column 2	Precision	Mean
50	0.050	0.045 - 0.055	0.0522	0.0514	0.0008	0.0518
100	0.100	0.090 - 0.110	0.0990	0.0990	0	0.099
200	0.200	0.180 - 0.220	0.1983	0.1990	0.0007	0.1986
300	0.300	0.270 - 0.330	0.2994	0.3001	0.0007	0.2997
400	0.400	0.360 - 0.440			0	#DIV/0!
500	0.500	0.450 - 0.550	0.5009	0.5003	0.0006	0.5006
Internal Standard	Average	(-) 20%				(+) 20%
N-Propanol:	210313.6	168250.9				252376.3

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 #: 5673

Run Date(s): 3/9/2022

Internal Standard Solution:

Prep Date: 2/2/2022

Exp Date: 8/2/2022

Sample Name	Column 1 Value	Column 2 Value	Average
0.08 A	199490	188165	193827.5
0.08 B	193193	182357	187775
QC1-1 A	198216	186866	192541
QC1-1 B	201060	189772	195416
QC1-2 A	244851	230756	237803.5
QC1-2 B	254746	239969	247357.5
			#DIV/0!
			#DIV/0!
QC2-1 A	211492	199778	205635
QC2-1 B	228642	215664	222153
			#DIV/0!
			#DIV/0!
			#DIV/0!
			#DIV/0!

Combined Average	(-)20%	(+)20%
210313.6	168250.9	252376.3



**Idaho State Police  
Forensic Services**

**Request for Departure from an Analytical Method or Quality Standard**

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Deviation Number (assigned by QM): **BLA-22-01**

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

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**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

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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 1<sup>st</sup>, 2022.

### Technical Review

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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

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Quality Approver: Jason Crowe  
Title: Quality Manager  
Date: 01/24/2022



# Calibration Table

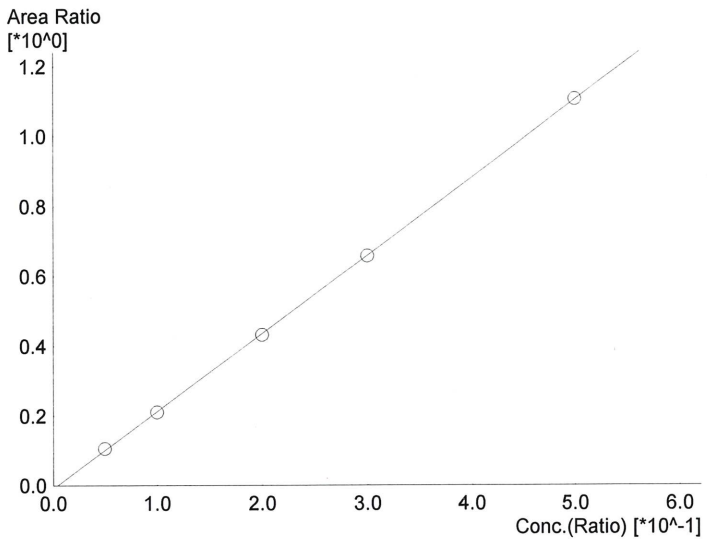
Laboratory : MERIDIAN  
 Instrument Name : GC-HS  
 Instrument Serial # : C12595800409 / C12255750548

<<Data File>>  
 Method File : C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM  
 Batch File : C:\LabSolutions\Data\220309\CALIBRATION\CALCURVE\_TEMPLATE.gcb  
 Date Acquired : 3/9/2022 11:41:25 AM  
 Date Created : 3/9/2022 11:36:53 AM  
 Date Modified : 3/9/2022 12:00:26 PM



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

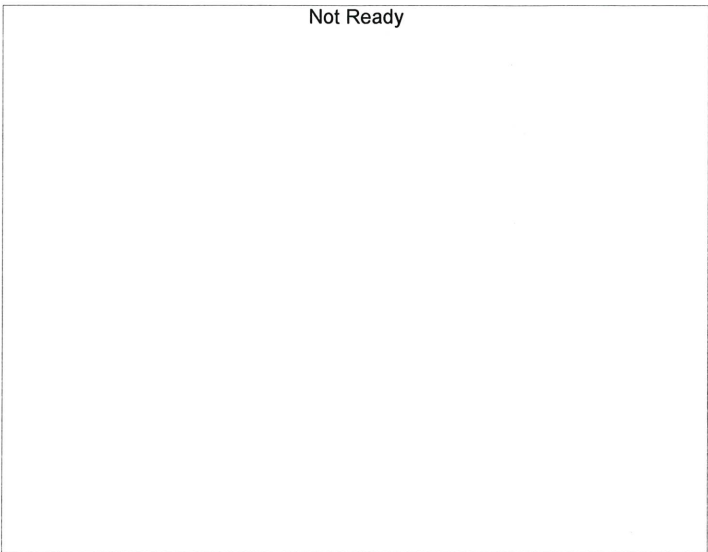
#	Conc.	Area	Std. Conc.
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Name : Ethanol  
 Detector Name: FID1  
 Function :  $f(x)=2.22634*x-0.0104171$   
 R<sup>2</sup> value= 0.9999234  
 FitType: Linear  
 ZeroThrough: Not Through

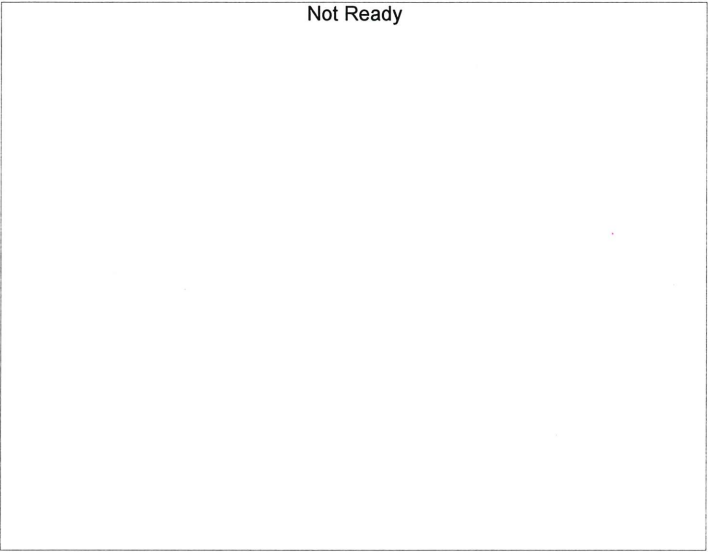
#	Conc.	Area	Std. Conc.
1	0.050	21377	0.0522
2	0.100	40442	0.0990
3	0.200	83552	0.1983
4	0.300	124861	0.2994
5	0.500	222002	0.5009

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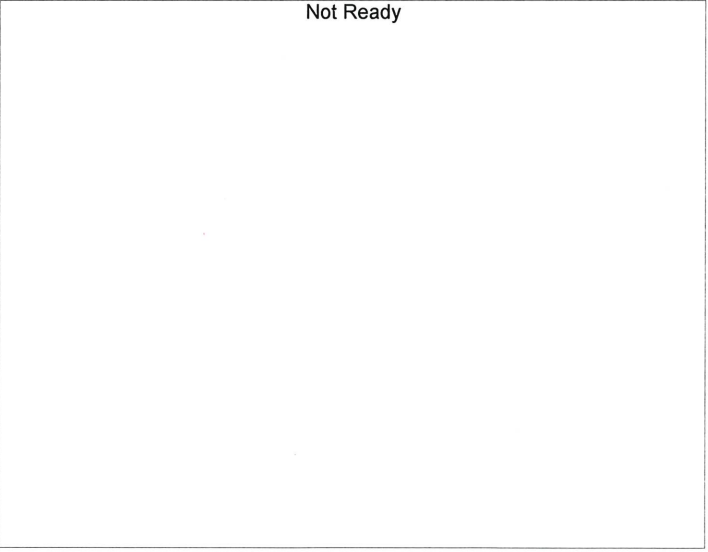
Name : Isopropyl Alcohol  
Detector Name: FID1  
Function :  $f(x)=0*x+0$   
R<sup>2</sup> value= 0  
FitType: Linear  
ZeroThrough: Not Through

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

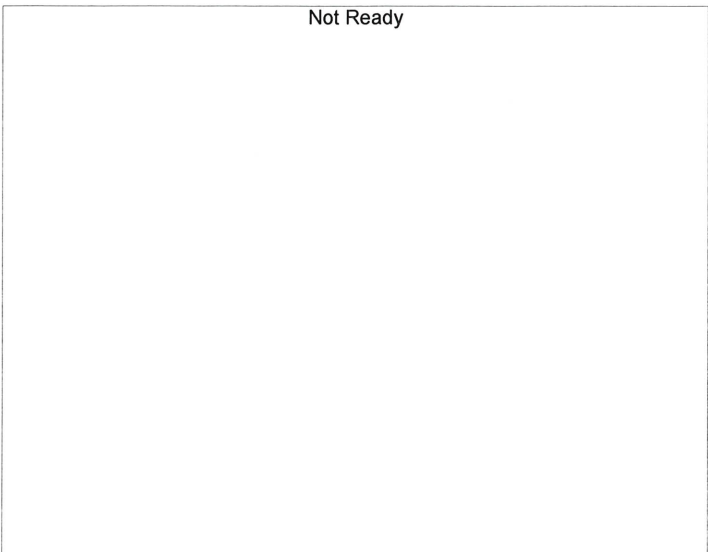
#	Conc.	Area	Std. Conc.
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Name : Fluor. Hydrocarbon(s)  
Detector Name: FID1  
Function :  $f(x)=0*x+0$   
R<sup>2</sup> value= 0  
FitType: Linear  
ZeroThrough: Not Through

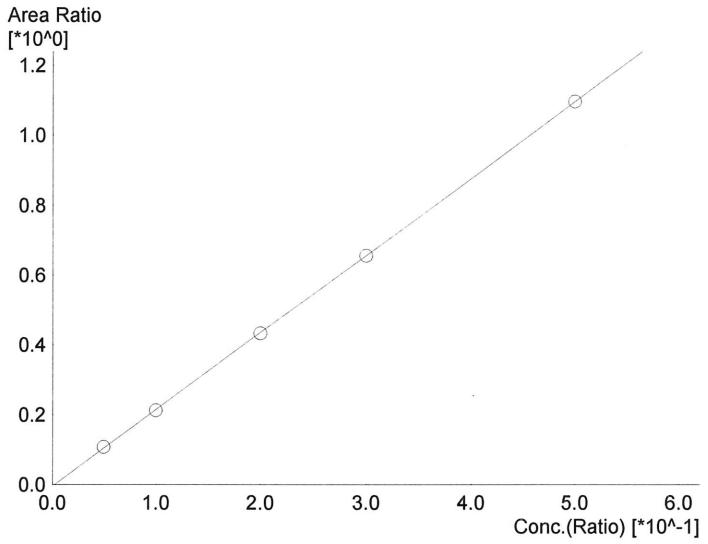
#	Conc.	Area	Std. Conc.
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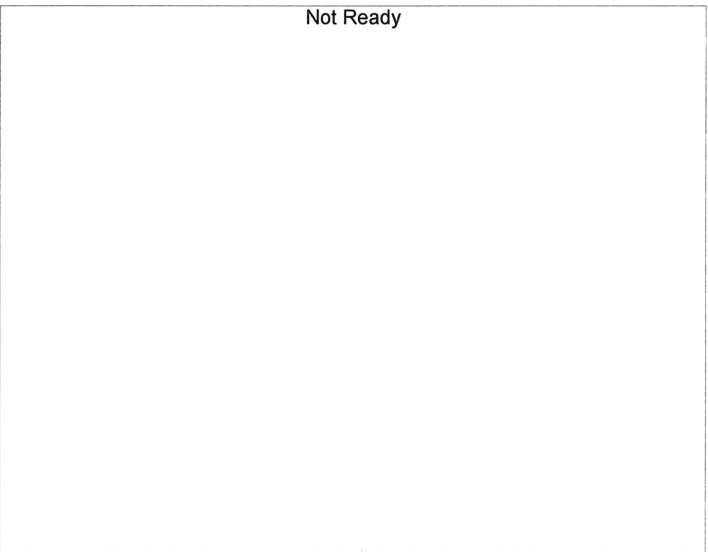
Name : Methanol  
 Detector Name: FID2  
 Function :  $f(x)=0*x+0$   
 R<sup>2</sup> value= 0  
 FitType: Linear  
 ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
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Name : Ethanol  
 Detector Name: FID2  
 Function :  $f(x)=2.20138*x-0.00592054$   
 R<sup>2</sup> value= 0.9999687  
 FitType: Linear  
 ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
1	0.050	20481	0.0514
2	0.100	38535	0.0990
3	0.200	79089	0.1990
4	0.300	117488	0.3001
5	0.500	206973	0.5003

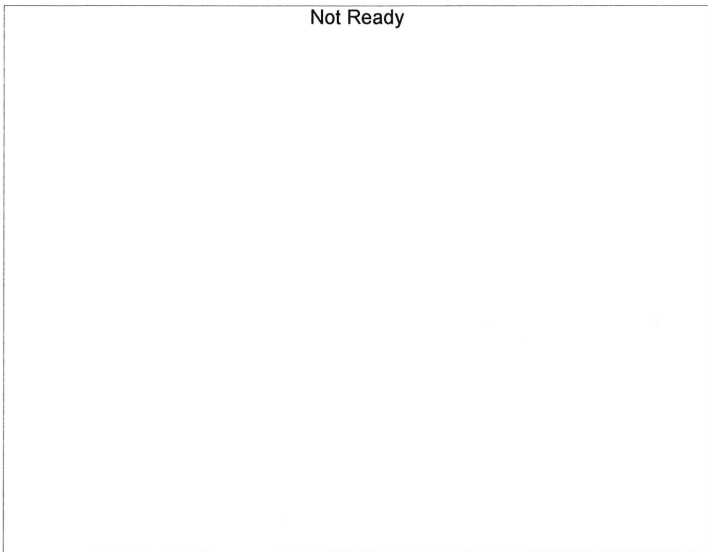


Name : Acetone  
 Detector Name: FID2  
 Function :  $f(x)=0*x+0$   
 R<sup>2</sup> value= 0  
 FitType: Linear  
 ZeroThrough: Not Through

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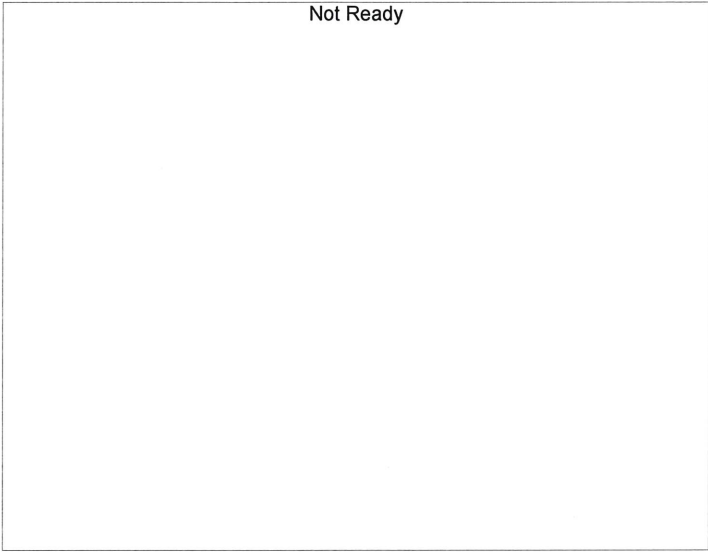
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Name : Isopropyl Alcohol  
Detector Name: FID2  
Function :  $f(x)=0*x+0$   
R<sup>2</sup> value= 0  
FitType: Linear  
ZeroThrough: Not Through

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

#	Conc.	Area	Std. Conc.
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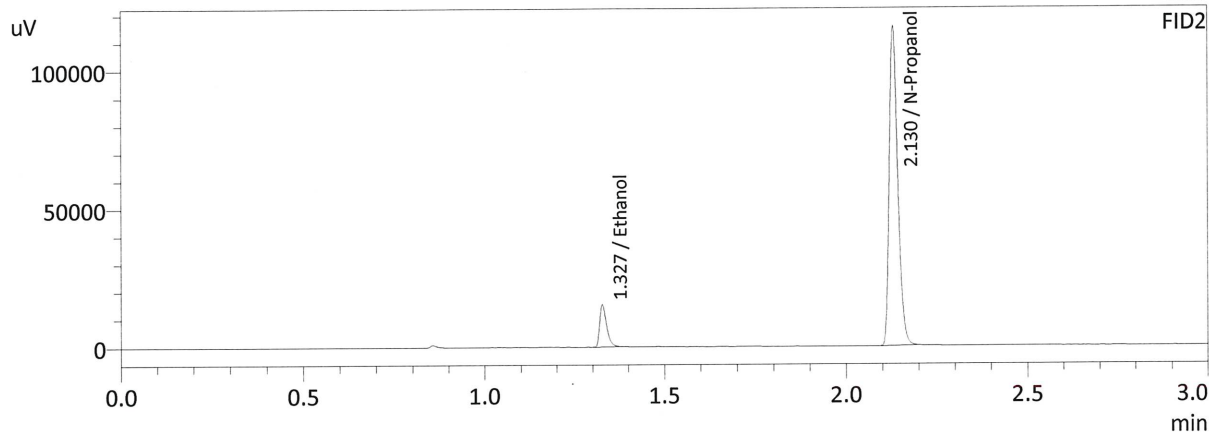
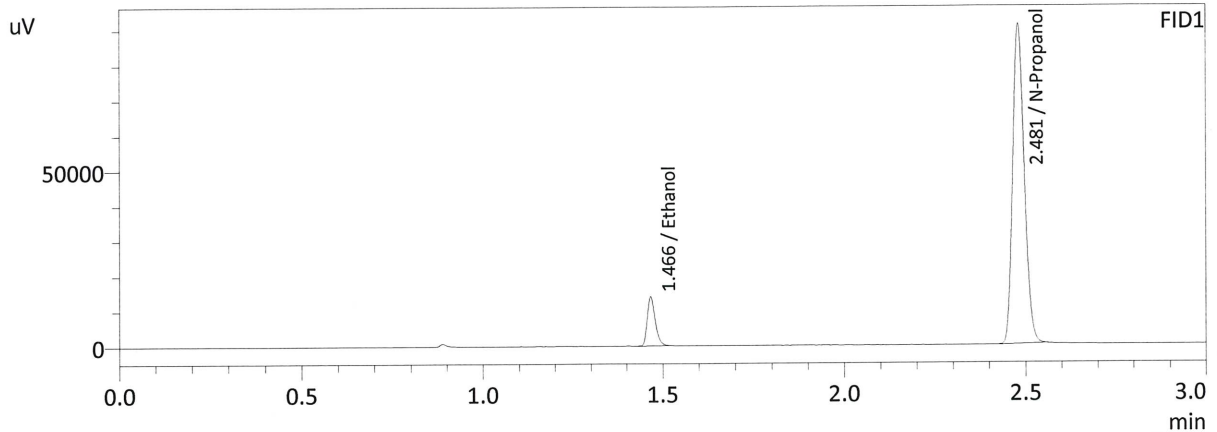
# Meridian Blood Alcohol Analysis Batch Table

Shimadzu GC-2030 Serial #C12255750548  
Shimadzu HS-20 Serial #C12595800409  
Lab Solutions Software Ver. 5.99  
Copyright (C) 2008-2020 Shimadzu Corporation

Vial#	Sample Name	Sample Type	Level#	Method File
1	0.050	1:Standard:(1)	1	ALCOHOL.GCM
2	0.100	1:Standard	2	ALCOHOL.GCM
3	0.200	1:Standard	3	ALCOHOL.GCM
4	0.300	1:Standard	4	ALCOHOL.GCM
5	0.500	1:Standard	5	ALCOHOL.GCM
6	INT STD BLK	0:Unknown	0	ALCOHOL.GCM



Sample Name : 0.050  
 Laboratory : Meridian  
 Injection Date : 3/9/2022 11:10:05 AM  
 Vial # : 1  
 Method Filename : C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

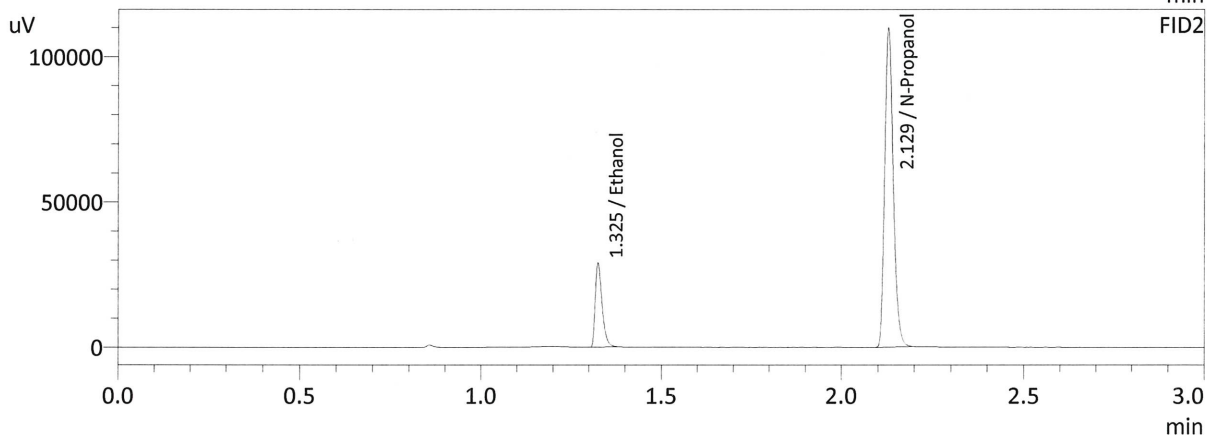
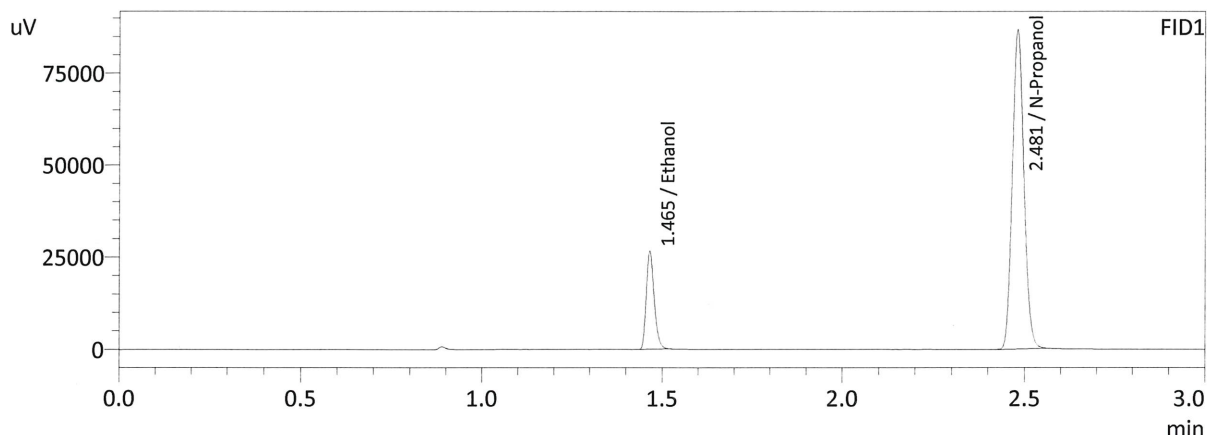
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0522	21377	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	201998	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0514	20481	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	190907	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

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Sample Name : 0.100  
 Laboratory : Meridian  
 Injection Date : 3/9/2022 11:17:25 AM  
 Vial # : 2  
 Method Filename : C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

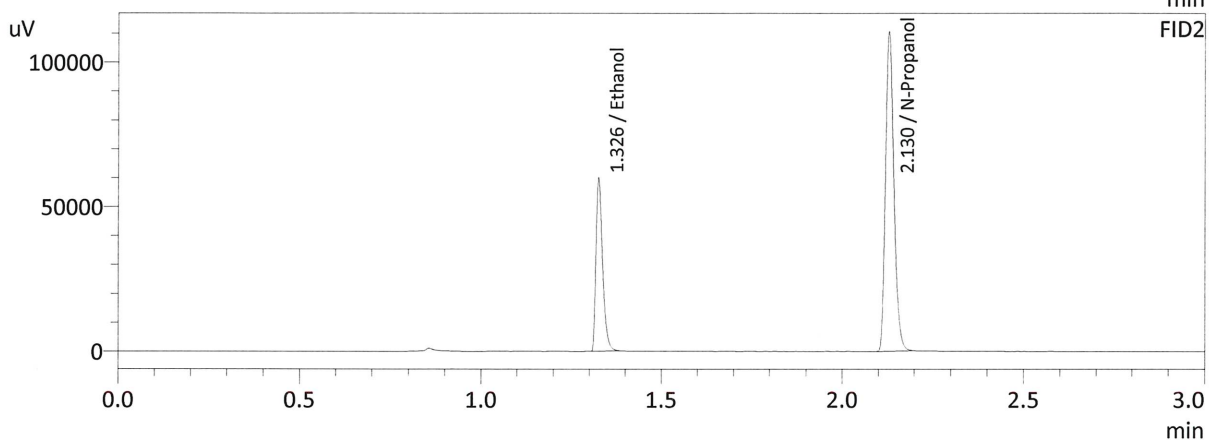
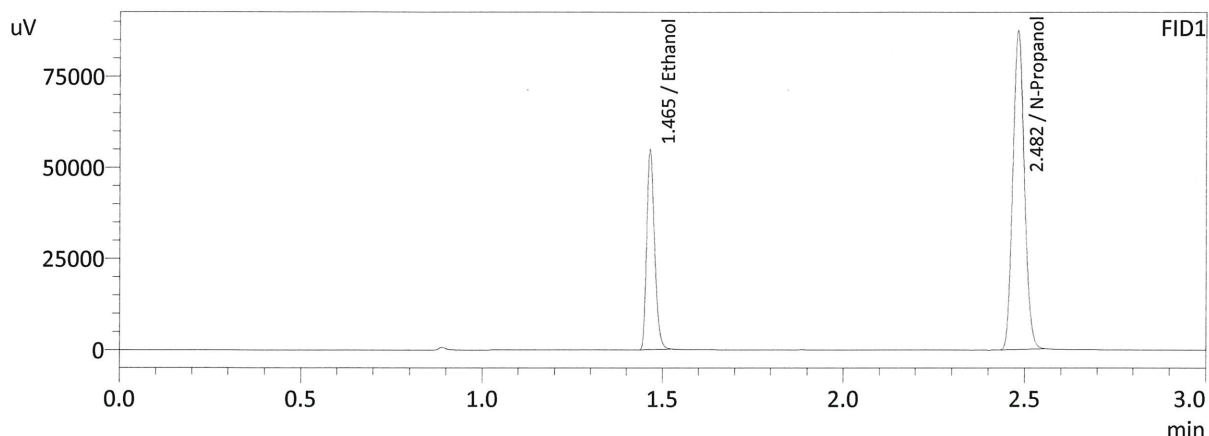
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0990	40442	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	192559	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0990	38535	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	181754	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

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Sample Name : 0.200  
 Laboratory : Meridian  
 Injection Date : 3/9/2022 11:25:05 AM  
 Vial # : 3  
 Method Filename : C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

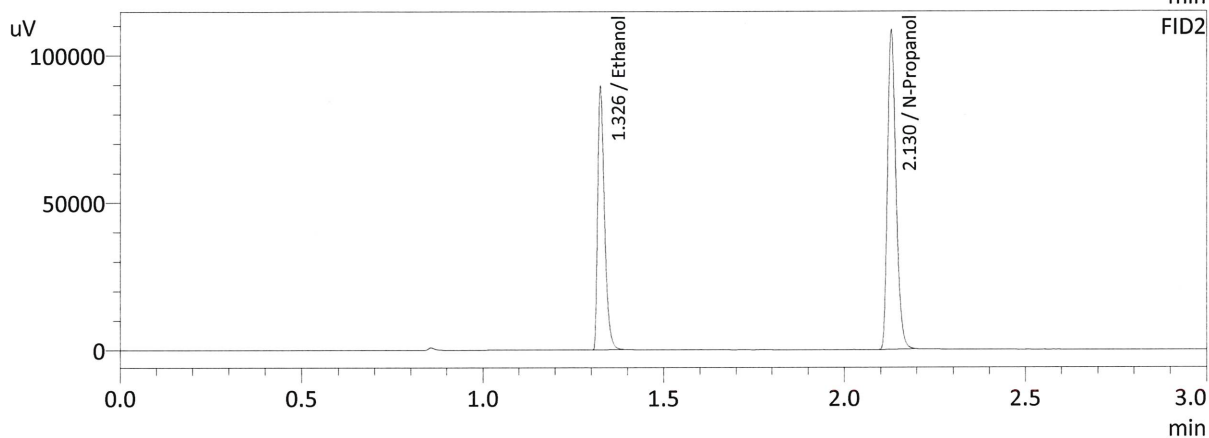
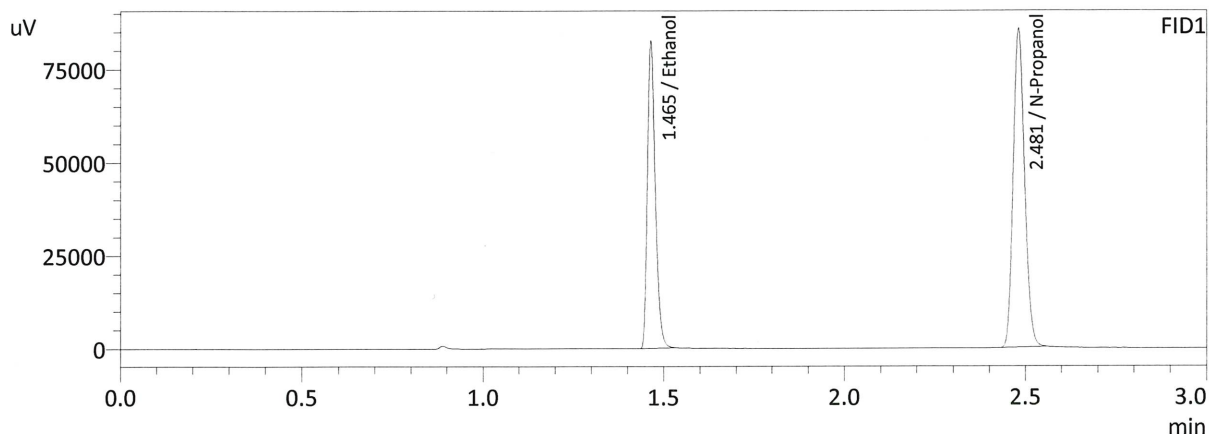
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1983	83552	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	193779	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1990	79089	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	182937	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

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Sample Name : 0.300  
 Laboratory : Meridian  
 Injection Date : 3/9/2022 11:33:44 AM  
 Vial # : 4  
 Method Filename : C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

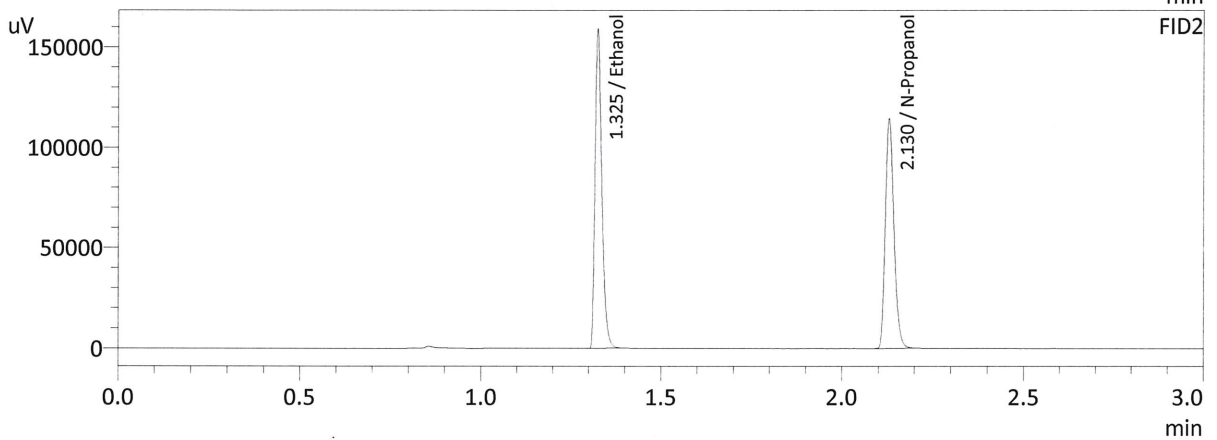
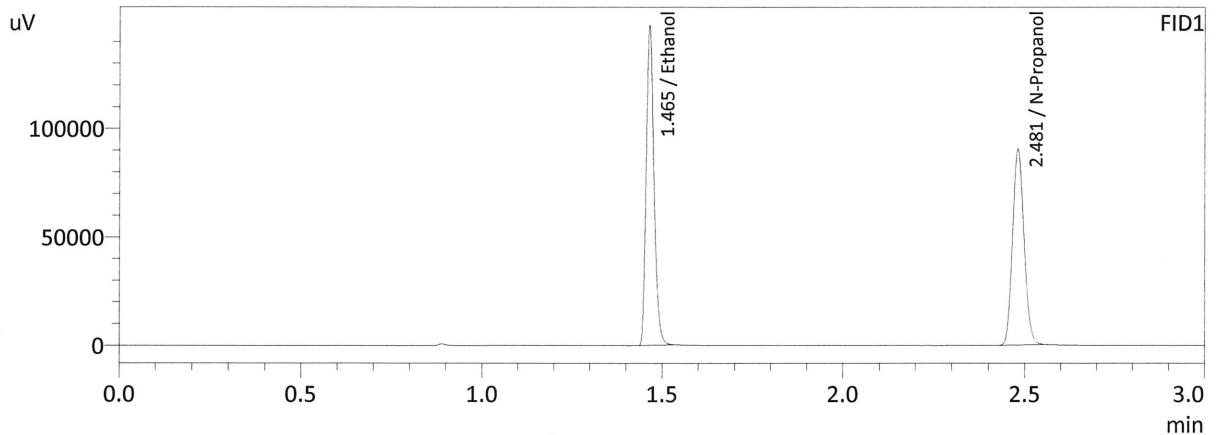
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2994	124861	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	190249	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.3001	117488	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	179406	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

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Sample Name : 0.500  
 Laboratory : Meridian  
 Injection Date : 3/9/2022 11:41:25 AM  
 Vial # : 5  
 Method Filename : C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

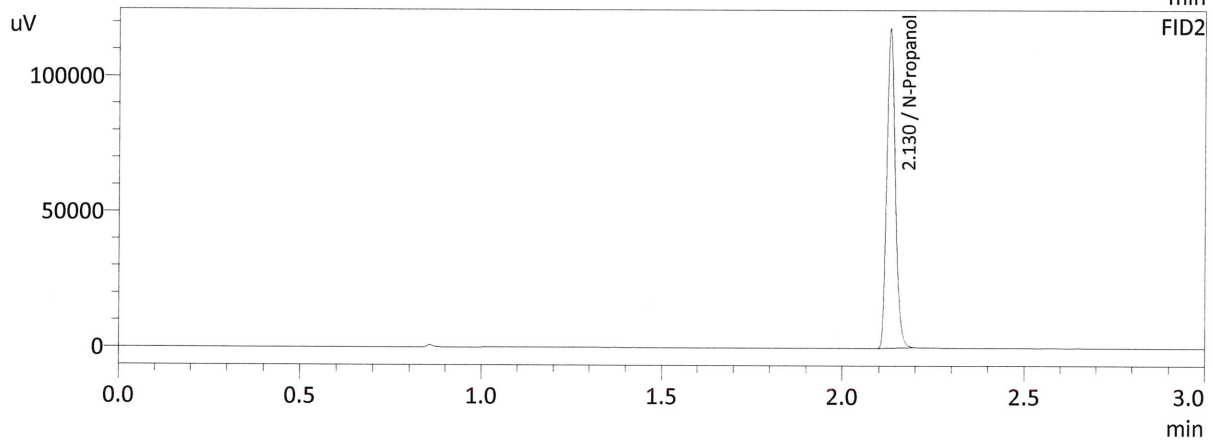
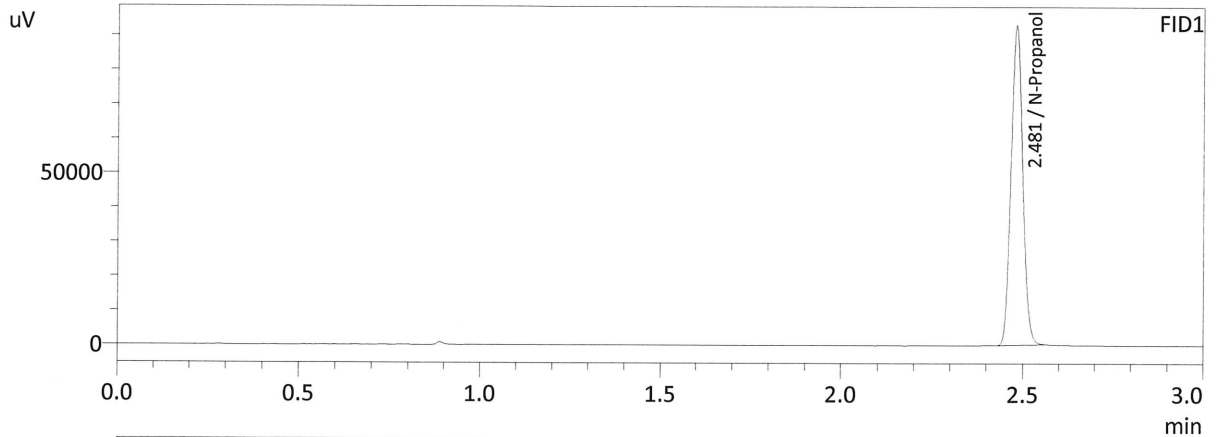
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.5009	222002	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	200928	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.5003	206973	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	188934	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

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Sample Name : INT STD BLK  
 Laboratory : Meridian  
 Injection Date : 3/9/2022 11:50:06 AM  
 Vial # : 6  
 Method Filename : C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	206379	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	195043	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

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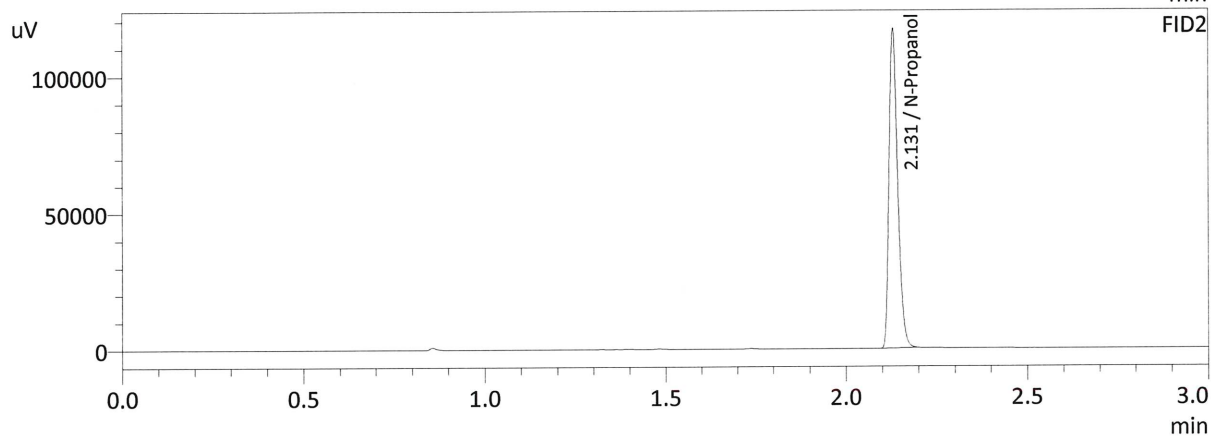
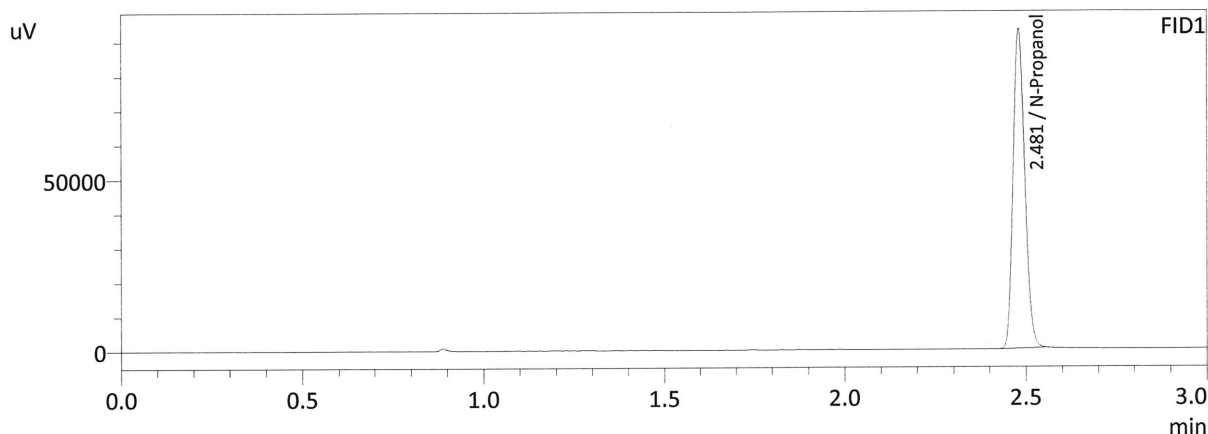


# Meridian Blood Alcohol Analysis Batch Table

Shimadzu GC-2030 Serial #C12255750548  
 Shimadzu HS-20 Serial #C12595800409  
 Lab Solutions Software Ver. 5.99  
 Copyright (C) 2008-2020 Shimadzu Corporation

Vial#	Sample Name	Method File
1	INT STD BLK I	C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM
2	ED VOLATILES FN 0710	C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM
3	OC-1-1-A	C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM
4	OC-1-1-B	C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM
5	0.08 QA-A	C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM
6	0.08 QA-B	C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM
7	M2022-0615-1-A	C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM
8	M2022-0615-1-B	C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM
9	M2022-0615-2-A	C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM
10	M2022-0615-2-B	C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM
11	M2022-0615-3-A	C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM
12	M2022-0615-3-B	C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM
13	M2022-0615-4-A	C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM
14	M2022-0615-4-B	C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM
15	M2022-0887-1-A	C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM
16	M2022-0887-1-B	C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM
17	M2022-0893-1-A	C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM
18	M2022-0893-1-B	C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM
19	M2022-0895-1-A	C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM
20	M2022-0895-1-B	C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM
21	M2022-0896-1-A	C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM
22	M2022-0896-1-B	C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM
23	M2022-0897-1-A	C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM
24	M2022-0897-1-B	C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM
25	OC-2-1-A	C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM
26	OC-2-1-B	C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM
27	M2022-0898-1-A	C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM
28	M2022-0898-1-B	C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM
29	M2022-0900-1-A	C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM
30	M2022-0900-1-B	C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM
31	M2022-0926-1-A	C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM
32	M2022-0926-1-B	C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM
33	M2022-0929-1-A	C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM
34	M2022-0929-1-B	C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM
35	M2022-0948-1-A	C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM
36	M2022-0948-1-B	C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM
37	M2022-0961-1-A	C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM
38	M2022-0961-1-B	C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM
39	M2022-0993-1-A	C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM
40	M2022-0993-1-B	C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM
41	M2022-1000-1-A	C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM
42	M2022-1000-1-B	C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM
43	P2022-0486-1-A	C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM
44	P2022-0486-1-B	C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM
45	P2022-0489-1-A	C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM
46	P2022-0489-1-B	C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM
47	QC1-2-A	C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM
48	QC1-2-B	C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM
49	INT STD BLK	C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM

Sample Name : INT STD BLK 1  
 Laboratory : Meridian  
 Injection Date : 3/9/2022 12:46:40 PM  
 Vial # : 1  
 Method Filename : C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

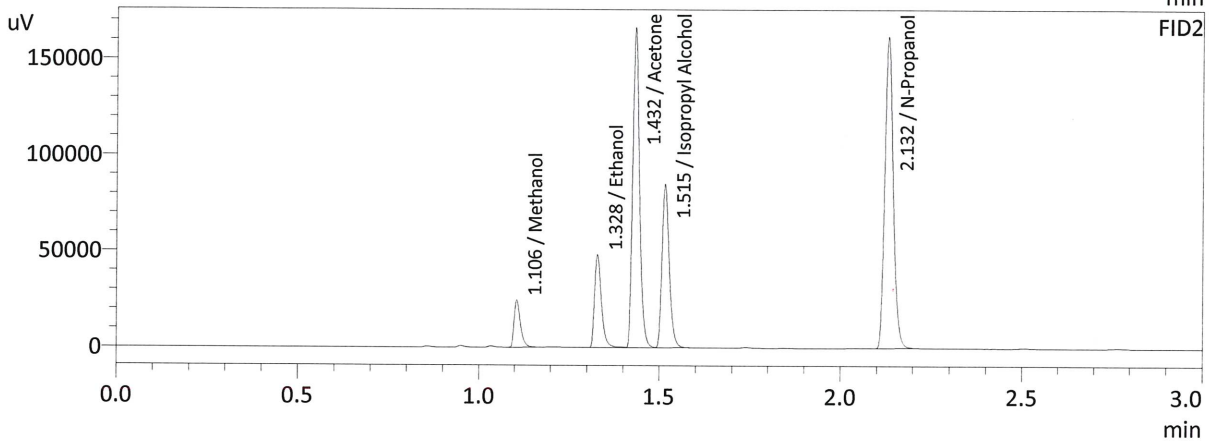
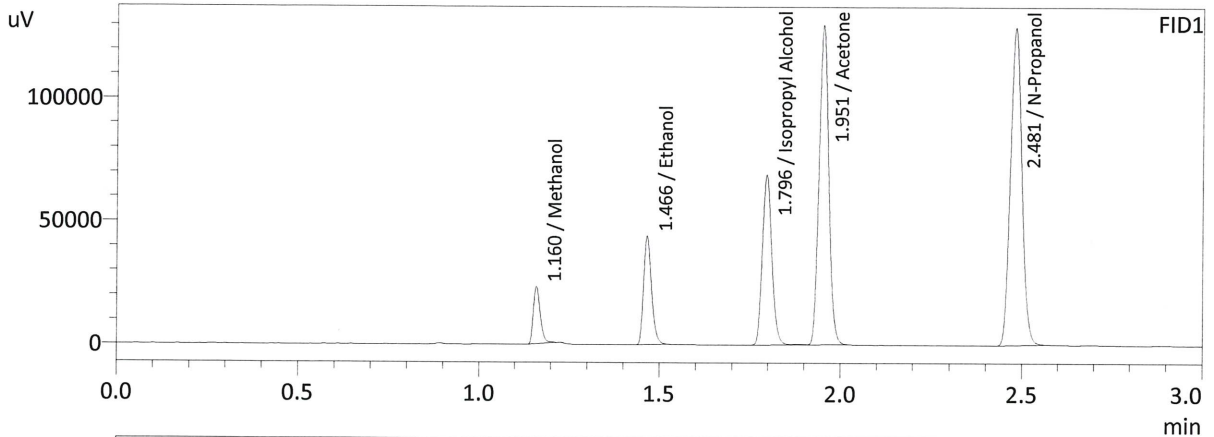
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	205162	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	193891	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : MIXED VOLATILES FN 07101701  
 Laboratory : Meridian  
 Injection Date : 3/9/2022 12:53:59 PM  
 Vial # : 2  
 Method Filename : C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	0.0000	30944	g/100cc
Ethanol	0.1107	67135	g/100cc
Isopropyl Alcohol	0.0000	126805	g/100cc
Acetone	0.0000	238786	g/100cc
N-Propanol	0.0000	284351	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

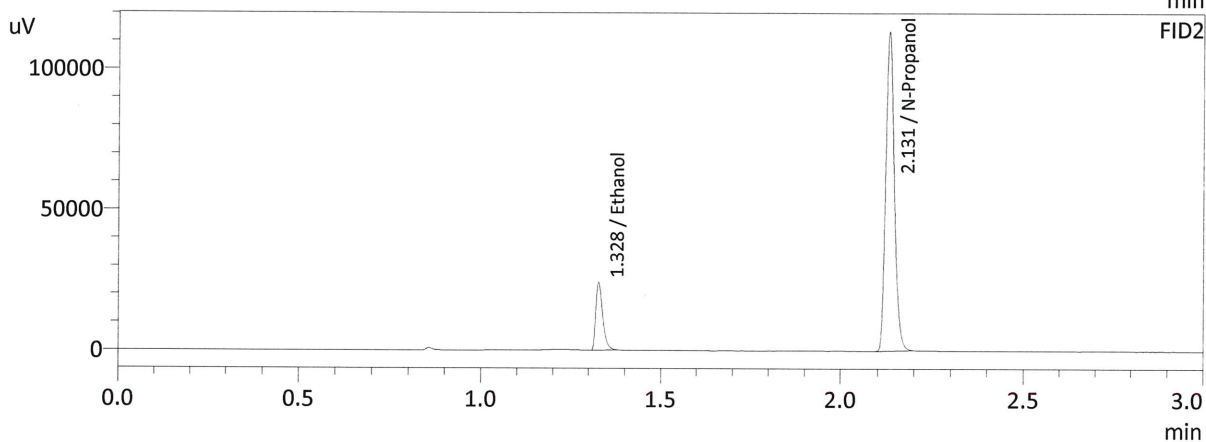
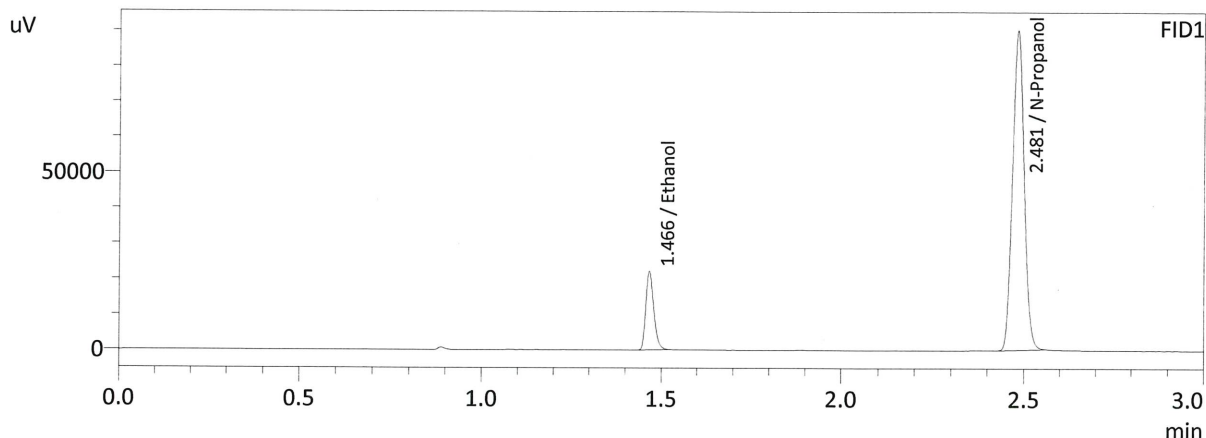
FID2

Name	Conc.	Area	Unit
Methanol	0.0000	30471	g/100cc
Ethanol	0.1125	64413	g/100cc
Acetone	0.0000	222895	g/100cc
Isopropyl Alcohol	0.0000	119028	g/100cc
N-Propanol	0.0000	266302	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

W



Sample Name : 0.08 QA-A  
 Laboratory : Meridian  
 Injection Date : 3/9/2022 1:17:41 PM  
 Vial # : 5  
 Method Filename : C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

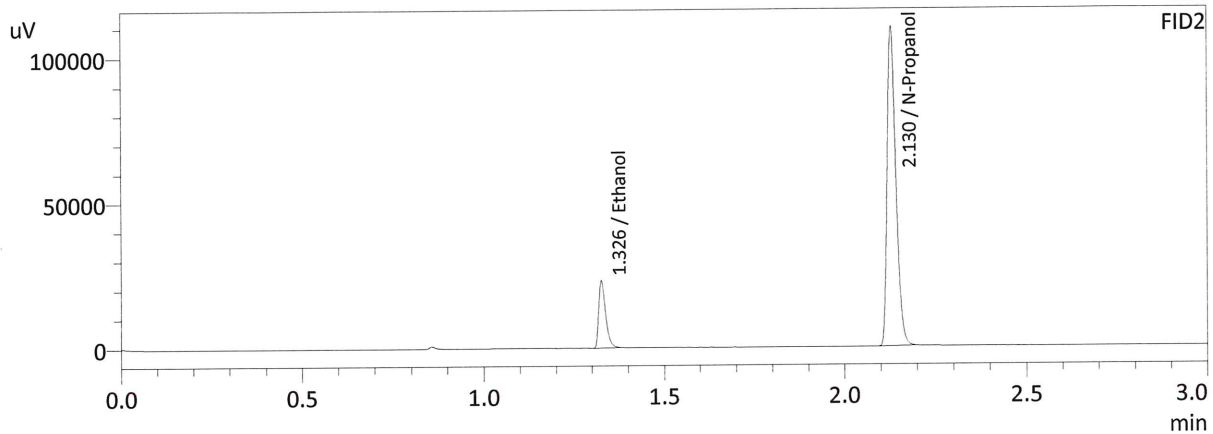
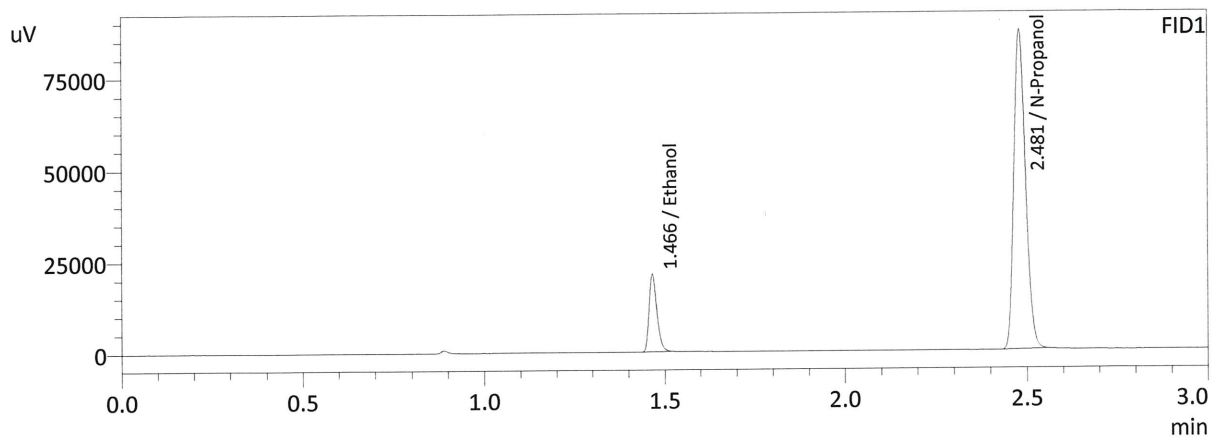
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0808	33828	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	199490	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0806	32274	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	188165	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : 0.08 QA-B  
 Laboratory : Meridian  
 Injection Date : 3/9/2022 1:26:14 PM  
 Vial # : 6  
 Method Filename : C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0799	32374	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	193193	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

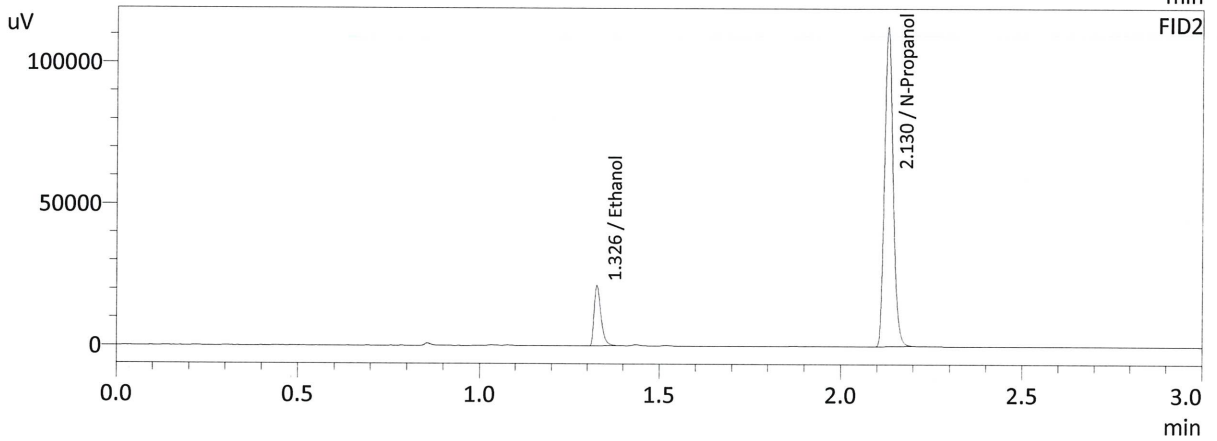
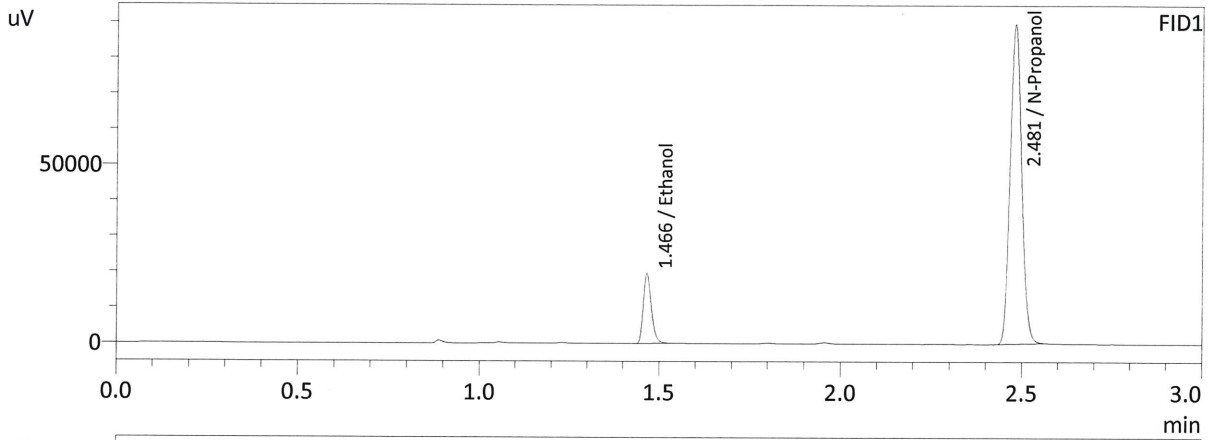
FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0797	30948	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	182357	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

W



Sample Name : QC-1-1-A  
 Laboratory : Meridian  
 Injection Date : 3/9/2022 1:01:20 PM  
 Vial # : 3  
 Method Filename : C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0723	29850	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	198216	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

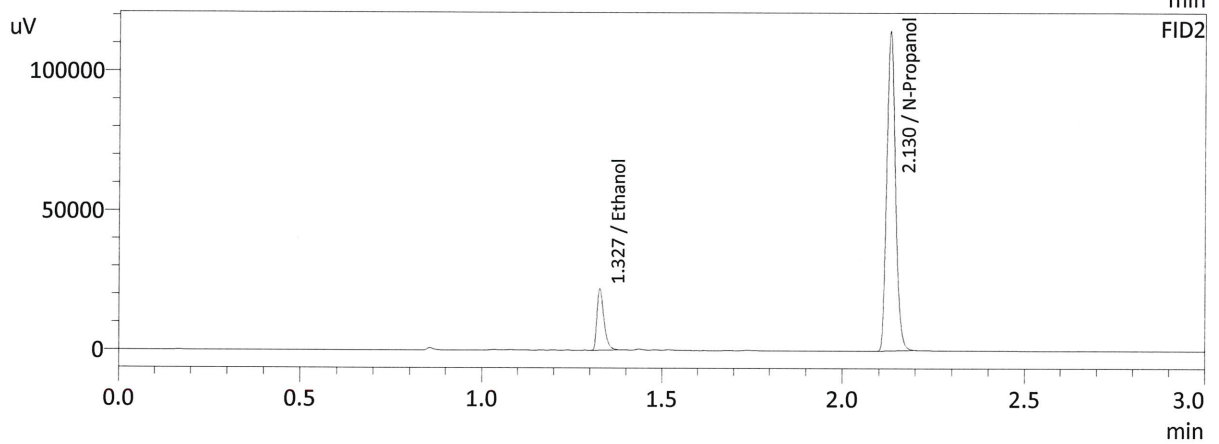
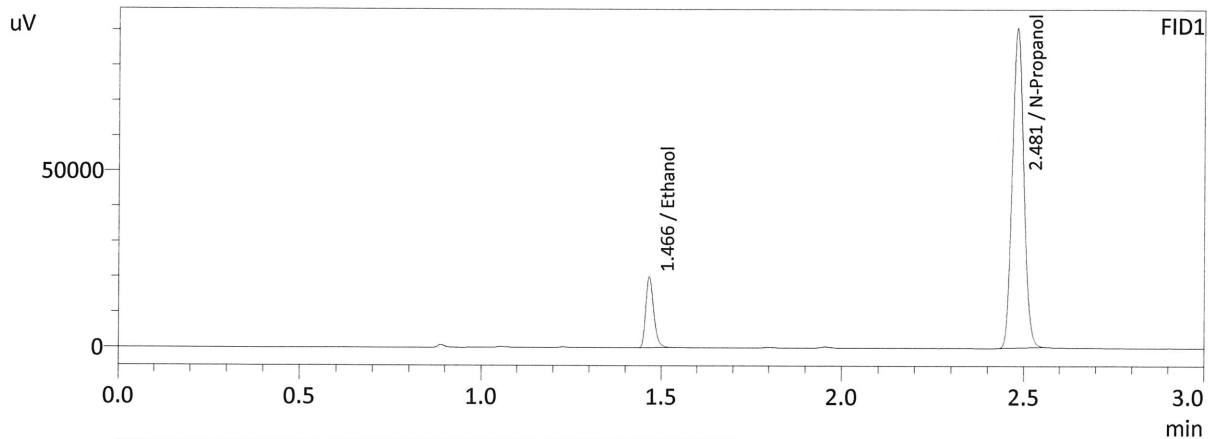
FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0720	28514	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	186866	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

*W*



Sample Name : QC-1-1-B  
 Laboratory : Meridian  
 Injection Date : 3/9/2022 1:10:22 PM  
 Vial # : 4  
 Method Filename : C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0734	30769	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	201060	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

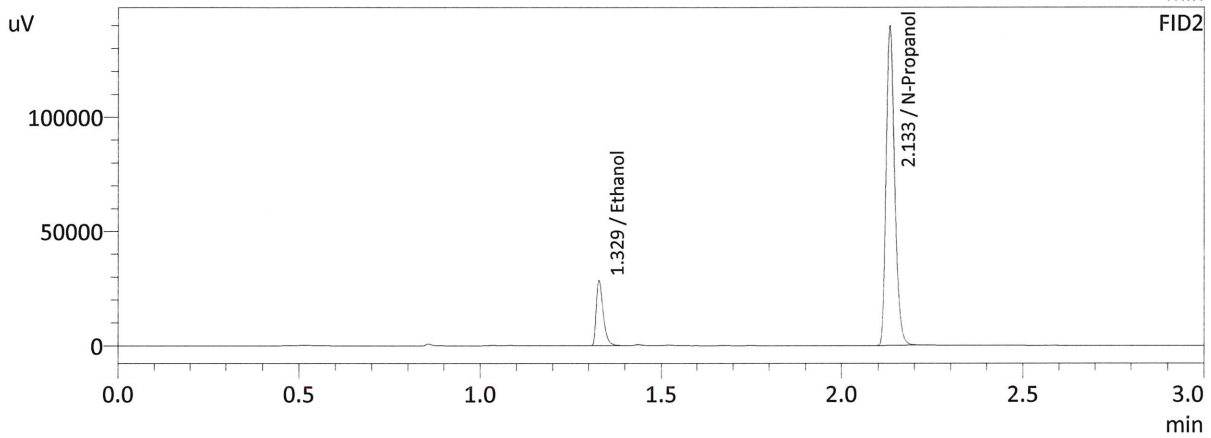
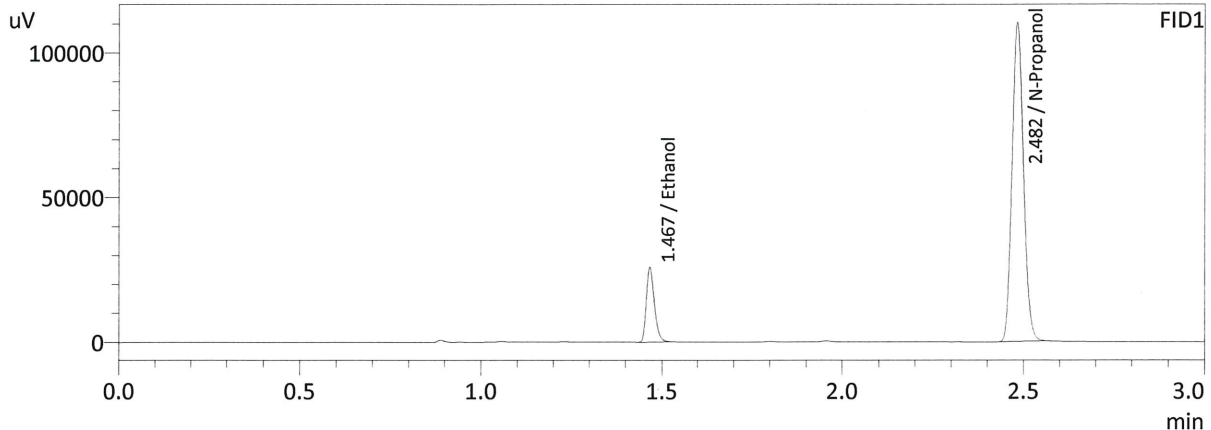
FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0731	29440	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	189772	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

*W*



Sample Name : QC1-2-A  
 Laboratory : Meridian  
 Injection Date : 3/9/2022 6:58:17 PM  
 Vial # : 47  
 Method Filename : C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

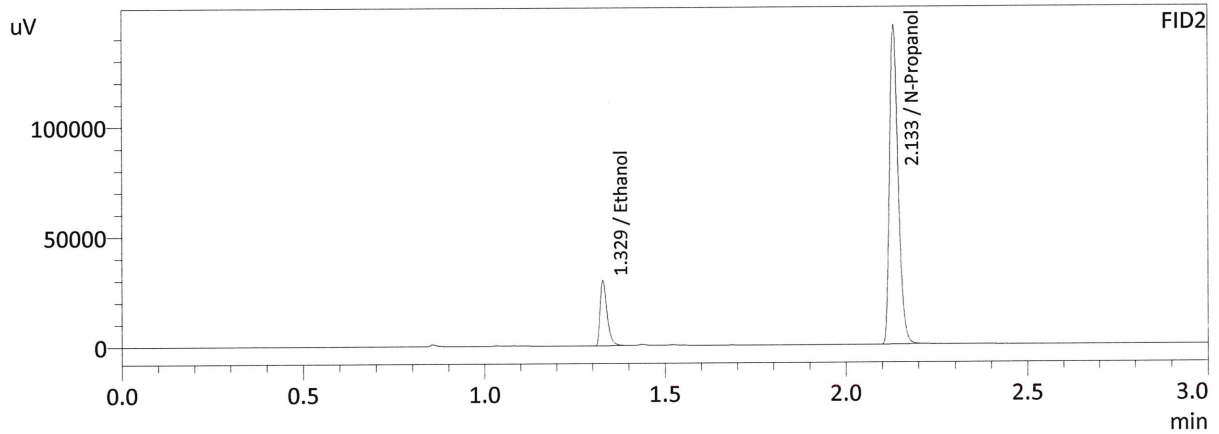
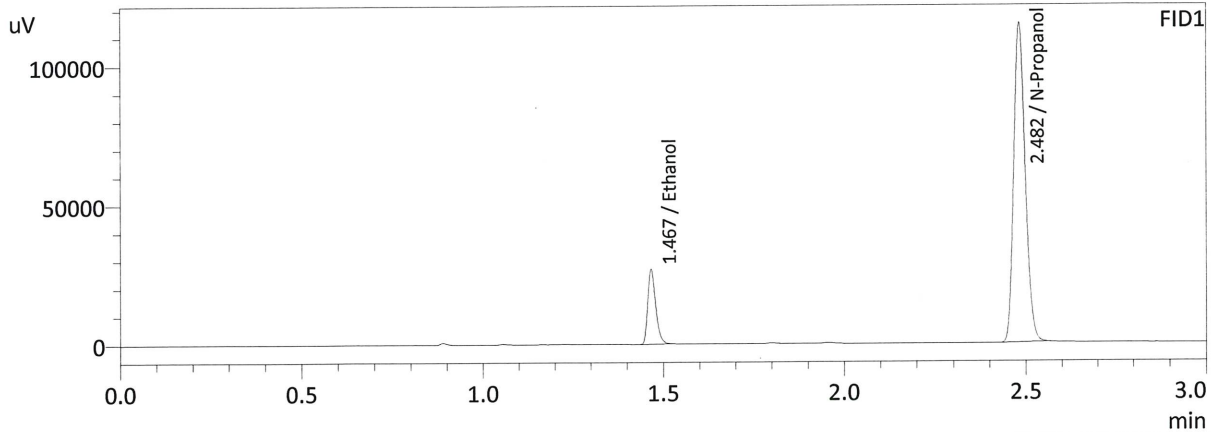
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0773	39606	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	244851	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0774	37983	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	230756	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : QC1-2-B  
 Laboratory : Meridian  
 Injection Date : 3/9/2022 7:07:47 PM  
 Vial # : 48  
 Method Filename : C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0770	41055	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	254746	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

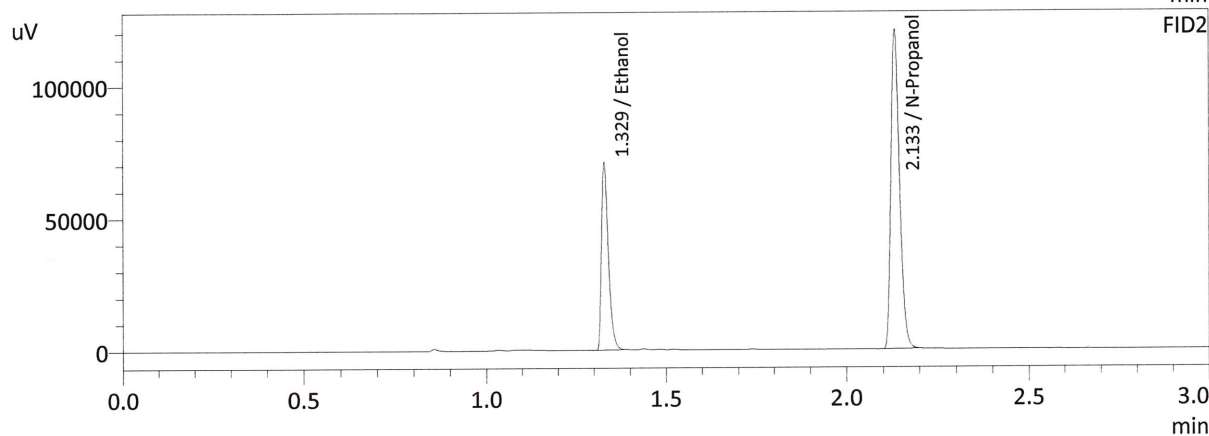
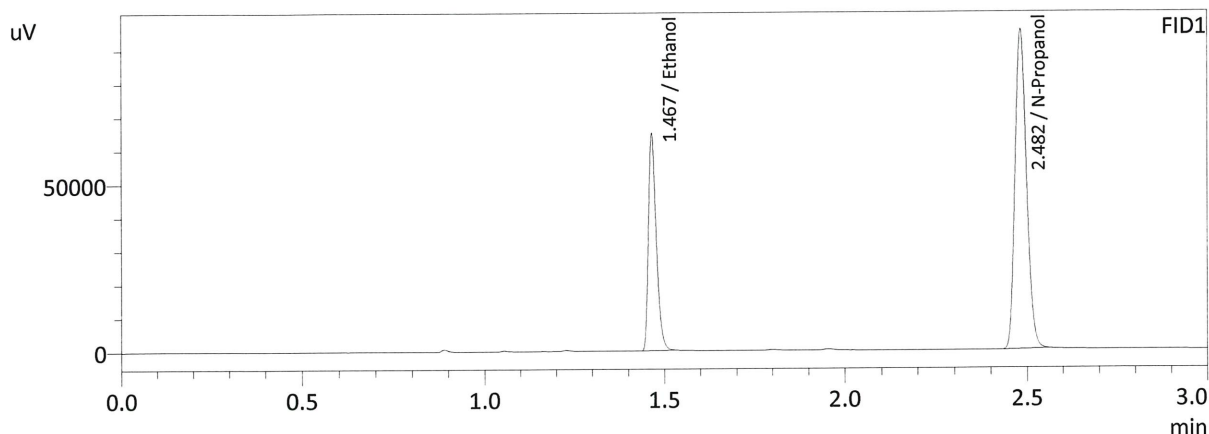
FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0774	39484	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	239969	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

W



Sample Name : QC-2-1-A  
 Laboratory : Meridian  
 Injection Date : 3/9/2022 4:00:35 PM  
 Vial # : 25  
 Method Filename : C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

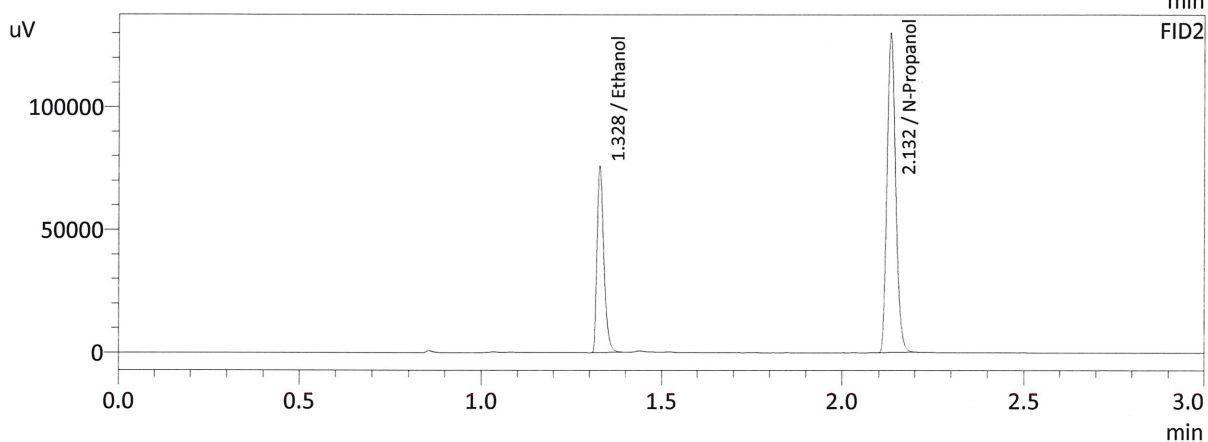
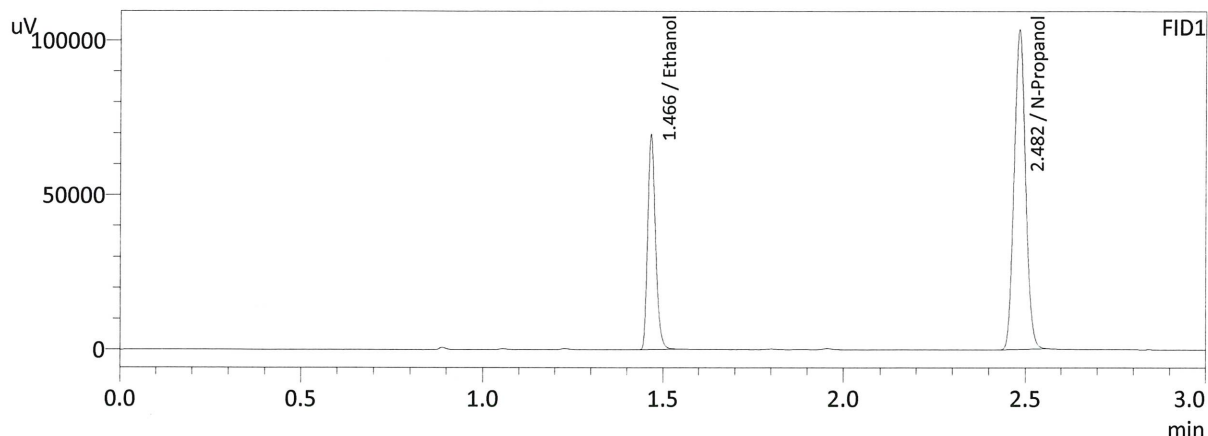
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2146	98882	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	211492	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2155	93609	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	199778	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : QC-2-1-B  
 Laboratory : Meridian  
 Injection Date : 3/9/2022 4:07:40 PM  
 Vial # : 26  
 Method Filename : C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

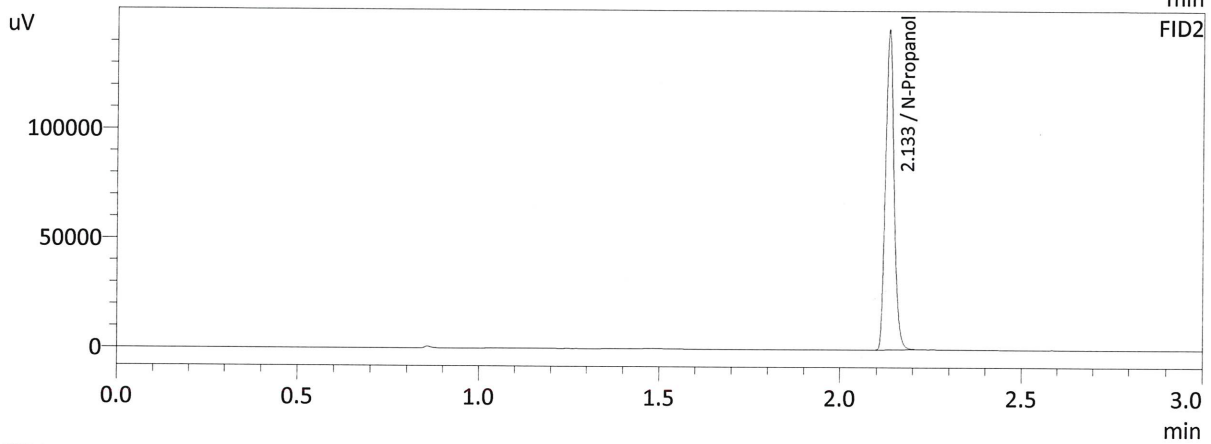
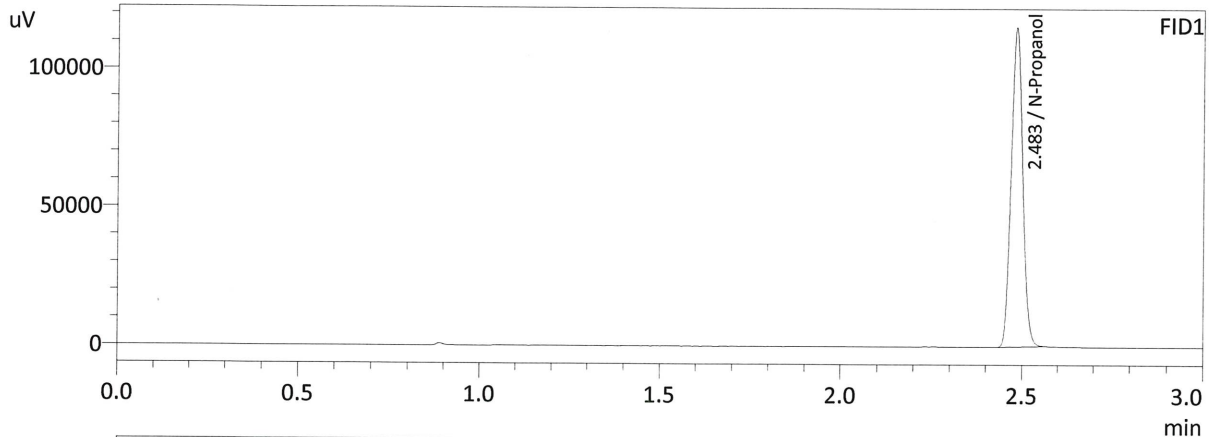
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2124	105766	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	228642	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2134	100044	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	215664	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : INT STD BLK  
 Laboratory : Meridian  
 Injection Date : 3/9/2022 7:14:50 PM  
 Vial # : 49  
 Method Filename : C:\LabSolutions\Data\220309\CALIBRATION\ALCOHOL.GCM  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	256542	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	242057	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

W