


Worklist: 5872

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
M2022-1820	1	BCK	Alcohol Analysis	
M2022-1821	1	BCK	Alcohol Analysis	
M2022-1822	1	BCK	Alcohol Analysis	
M2022-1823	1	BCK	Alcohol Analysis	
M2022-1824	1	BCK	Alcohol Analysis	
M2022-1825	1	BCK	Alcohol Analysis	
M2022-1826	1	BCK	Alcohol Analysis	
M2022-1849	1	BCK	Alcohol Analysis	
M2022-1850	1	BCK	Alcohol Analysis	
M2022-1851	1	BCK	Alcohol Analysis	
M2022-1852	1	BCK	Alcohol Analysis	
M2022-1890	1	BCK	Alcohol Analysis	
M2022-1897	1	BCK	Alcohol Analysis	
M2022-1910	1	BCK	Alcohol Analysis	
M2022-1911	1	BCK	Alcohol Analysis	
M2022-1941	1	BCK	Alcohol Analysis	
M2022-1942	1	BCK	Alcohol Analysis	
M2022-1943	1	BCK	Alcohol Analysis	
P2022-1268	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: L600HC11378

Volatiles Quality Assurance Controls

Run Date(s): 05/11/2022

05/03/2022

Worklist #: 5872

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Jul-23	1907006	0.0764	0.0688-0.0840	0.0779 g/100cc 0.0803 g/100cc g/100cc
Level 2	Jul-23	1907007	0.2170	0.1953-0.2387	0.2116 g/100cc g/100cc g/100cc
Multi-Component mixture:		Exp:	Lot #	Column1	Column2
		7/1/2022	FN07101701	0.99960	OK
Curve Fit:					0.99973

Ethanol Calibration Reference Material

Calibrator level	Target Value	Acceptable Range	Column 1	Column 2	Precision	Mean
50	0.050	0.045 - 0.055	0.0543	0.0534	0.0009	0.0538
100	0.100	0.090 - 0.110	0.0991	0.0991	0	0.0991
200	0.200	0.180 - 0.220	0.1947	0.1955	0.0008	0.1951
300	0.300	0.270 - 0.330	0.2997	0.3006	0.0009	0.3001
400	0.400	0.360 - 0.440			0	#DIV/0!
500	0.500	0.450 - 0.550	0.5019	0.5012	0.0007	0.5015
Internal Standard	Average	(-) 20%		(+) 20%		
N-Propanol:	201956.6	161565.3		242348.0		

Aqueous Controls

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

Internal Standard Monitoring Worksheet

Worksheet #: 5872 **Run Date(s):** 05/11/2022

Internal Standard Solution:	Prep Date: 2/2/2022	Exp Date: 8/2/2022
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Sample Name	Column 1 Value	Column 2 Value	Average
0.080	187212	177176	182194
0.080	184262	174478	179370
QC1-1 A	192243	181702	186972.5
QC1-1 B	193882	183573	188727.5
QC1-2 A	234716	221463	228089.5
QC1-2 B	235053	221774	228413.5
QC2-1 A	212903	201029	206966
QC2-1 B	221075	208765	214920
			#DIV/0!
			#DIV/0!
			#DIV/0!
			#DIV/0!
			#DIV/0!
			#DIV/0!

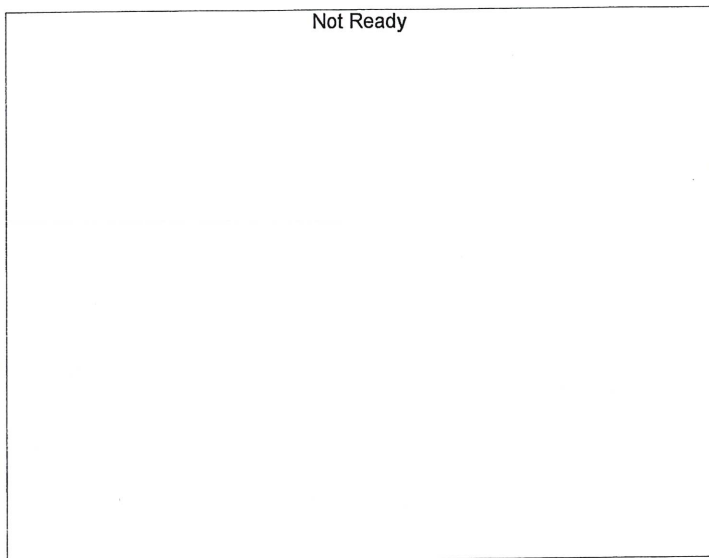
Combined Average	(-)20%		(+)20%
201956.6	161565.3		242348.0



Calibration Table

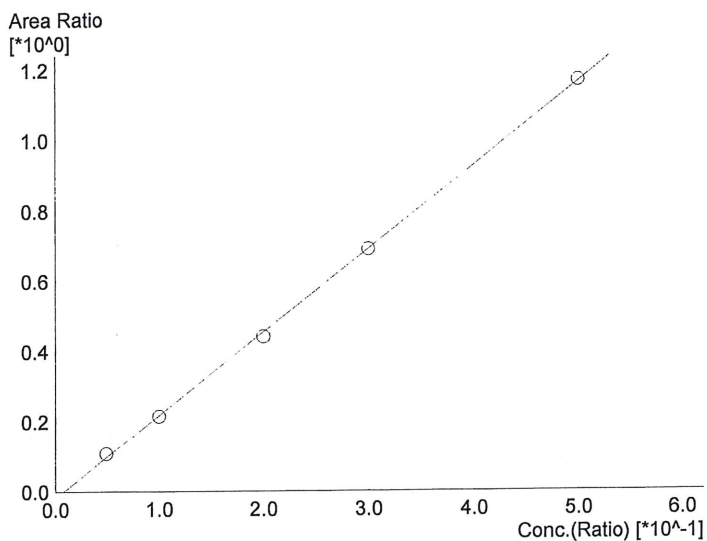
Laboratory : MERIDIAN
 Instrument Name : GC-HS
 Instrument Serial # : C12595800409 / C12255750548

<<Data File>>
 Method File : C:\LabSolutions\Data\220503\CALIBRATIONALCOHOL.GCM
 Batch File : C:\LabSolutions\Data\220415\CALIBRATION\CALCURVE_TEMPLATE.gcb
 Date Acquired : 5/3/2022 10:34:43 AM
 Date Created : 5/3/2022 10:30:06 AM
 Date Modified : 5/3/2022 10:37:44 AM



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

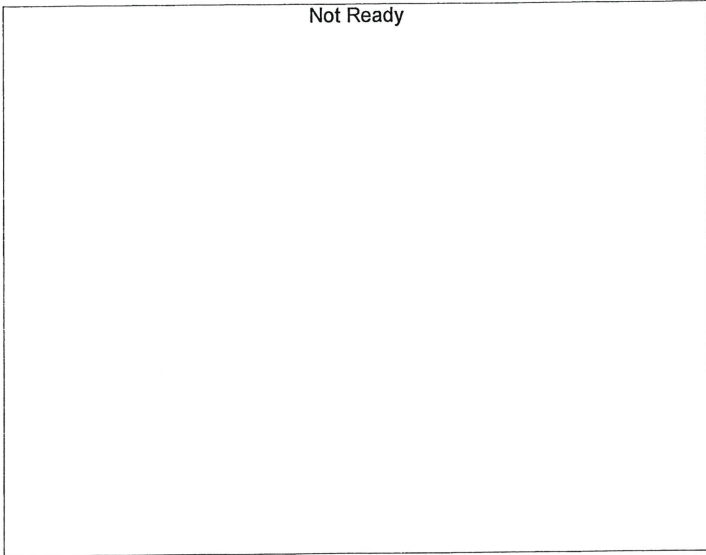
#	Conc.	Area	Std. Conc.
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Name : Ethanol
 Detector Name: FID1
 Function : $f(x)=2.36621*x-0.0201898$
 R² value= 0.9996036
 FitType: Linear
 ZeroThrough: Not Through

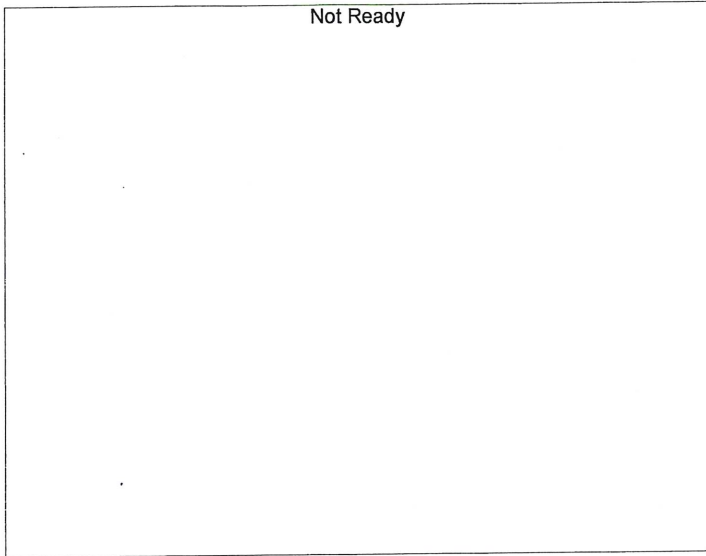
#	Conc.	Area	Std. Conc.
1	0.050	21185	0.0543
2	0.100	40275	0.0991
3	0.200	81818	0.1947
4	0.300	130498	0.2997
5	0.500	232702	0.5019

W



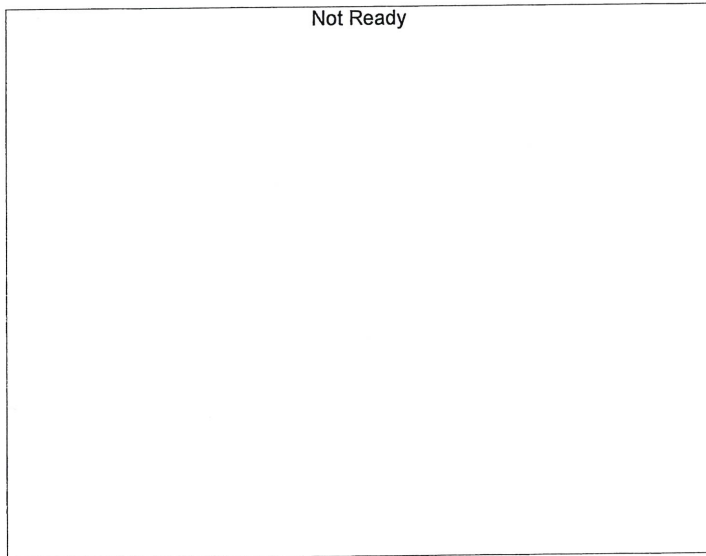
Name : Isopropyl Alcohol
Detector Name: FID1
Function : $f(x)=0*x+0$
R² value= 0
FitType: Linear
ZeroThrough: Not Through

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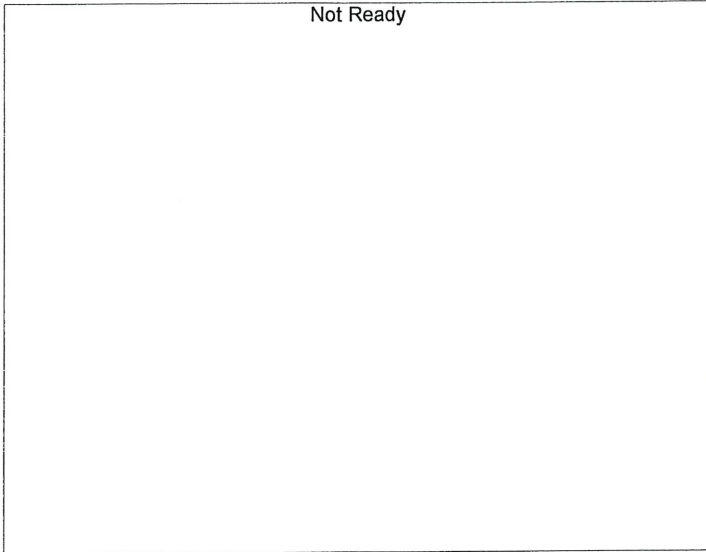
Name : Acetone
Detector Name: FID1
Function : $f(x)=0*x+0$
R² value= 0
FitType: Linear
ZeroThrough: Not Through

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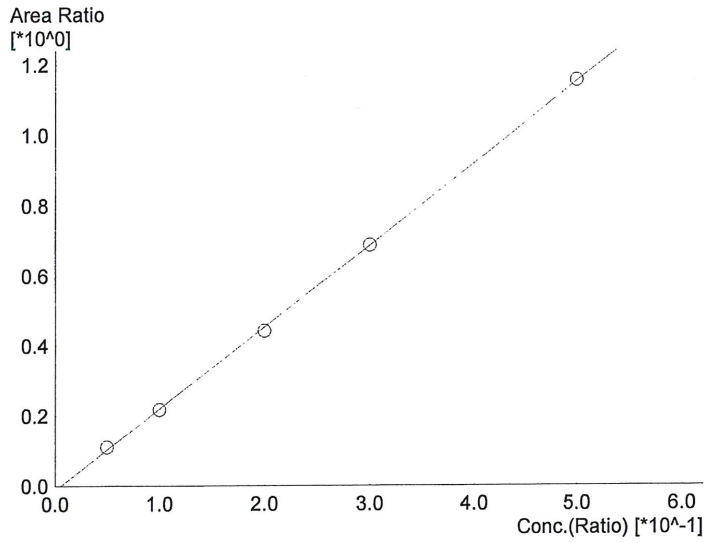
Name : Fluor. Hydrocarbon(s)
Detector Name: FID1
Function : $f(x)=0*x+0$
R² value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
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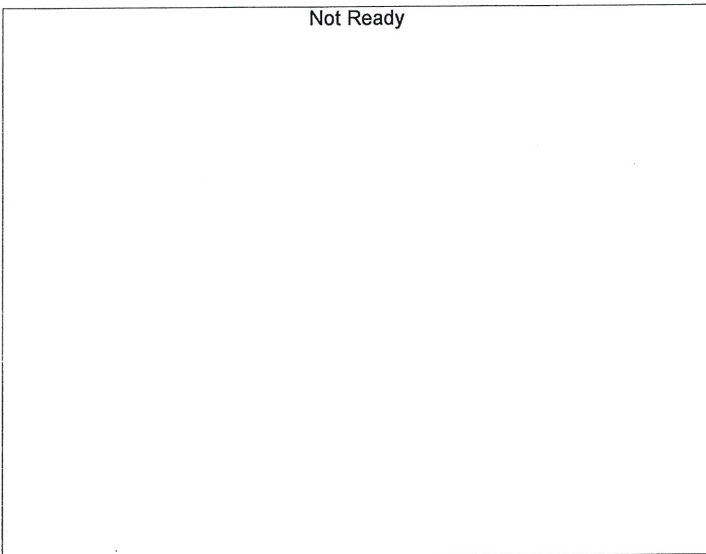
Name : Methanol
 Detector Name: FID2
 Function : $f(x)=0*x+0$
 R² value= 0
 FitType: Linear
 ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
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Name : Ethanol
 Detector Name: FID2
 Function : $f(x)=2.32891*x-0.0141465$
 R² value= 0.9997329
 FitType: Linear
 ZeroThrough: Not Through

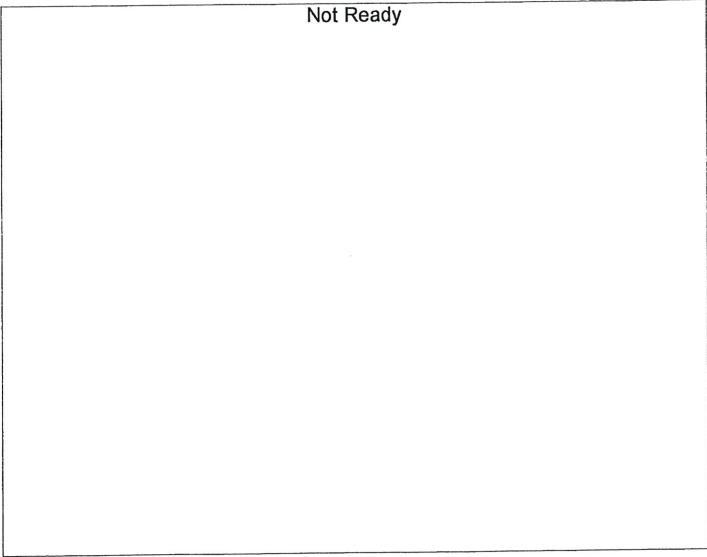
#	Conc.	Area	Std. Conc.
1	0.050	20423	0.0534
2	0.100	38551	0.0991
3	0.200	77552	0.1955
4	0.300	122830	0.3006
5	0.500	216806	0.5012



Name : Acetone
 Detector Name: FID2
 Function : $f(x)=0*x+0$
 R² value= 0
 FitType: Linear
 ZeroThrough: Not Through

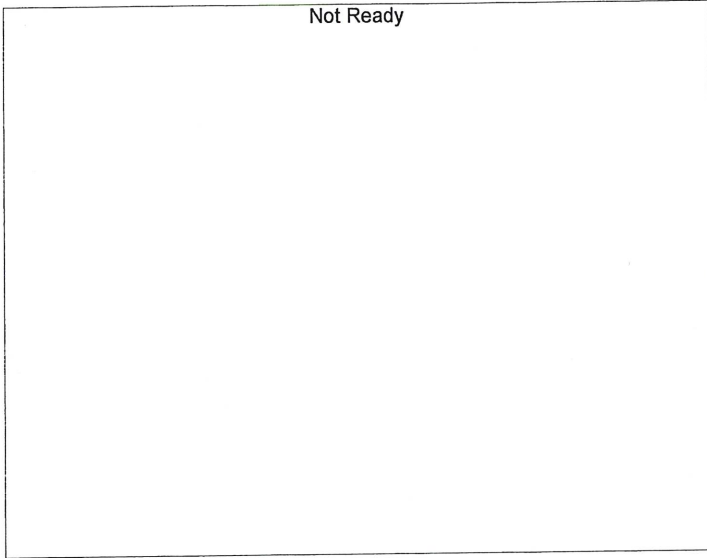
#	Conc.	Area	Std. Conc.
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W



Name : Isopropyl Alcohol
Detector Name: FID2
Function : $f(x)=0*x+0$
R² value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
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Name : Flour. Hydrocarbon(s)
Detector Name: FID2
Function : $f(x)=0*x+0$
R² value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
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W

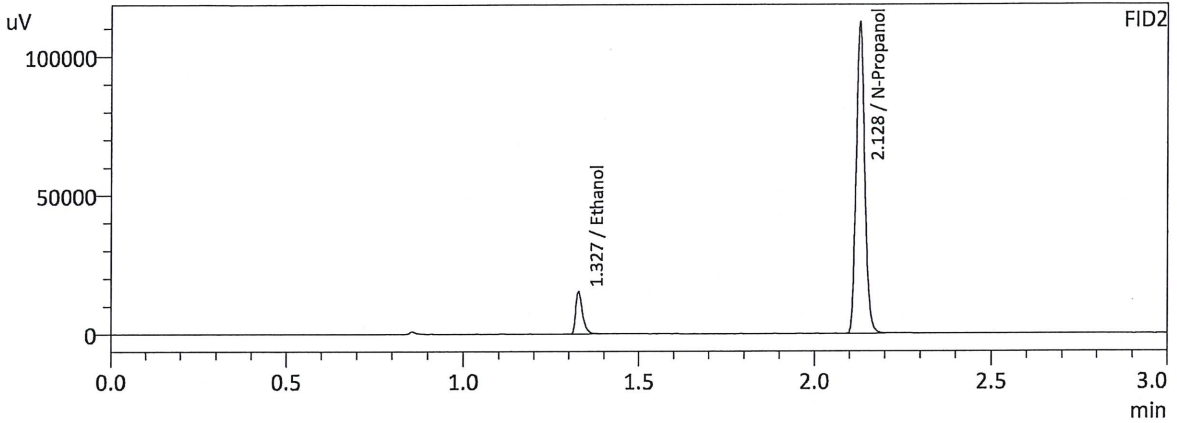
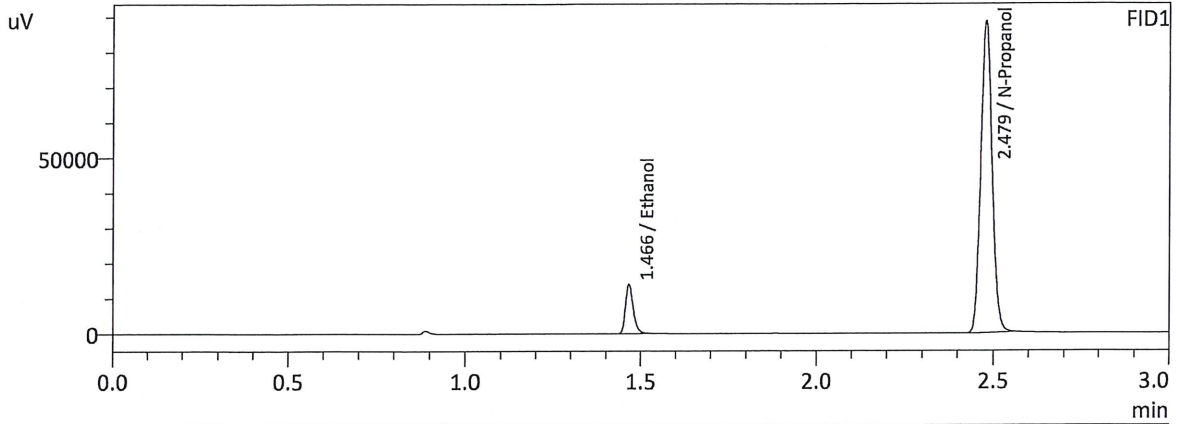
Meridian Blood Alcohol Analysis Batch Table

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:(I)	1	s\Data\220503\CALIBRATION\AI
2	0.100	1:Standard	2	s\Data\220503\CALIBRATION\AI
3	0.200	1:Standard	3	s\Data\220503\CALIBRATION\AI
4	0.300	1:Standard	4	s\Data\220503\CALIBRATION\AI
5	0.500	1:Standard	5	s\Data\220503\CALIBRATION\AI
6	INT STD BLNK	0:Unknown	0	s\Data\220503\CALIBRATION\AI



Sample Name : 0.050
 Laboratory : Meridian
 Injection Date : 5/3/2022 10:03:33 AM
 Vial # : 1
 Method Filename : C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

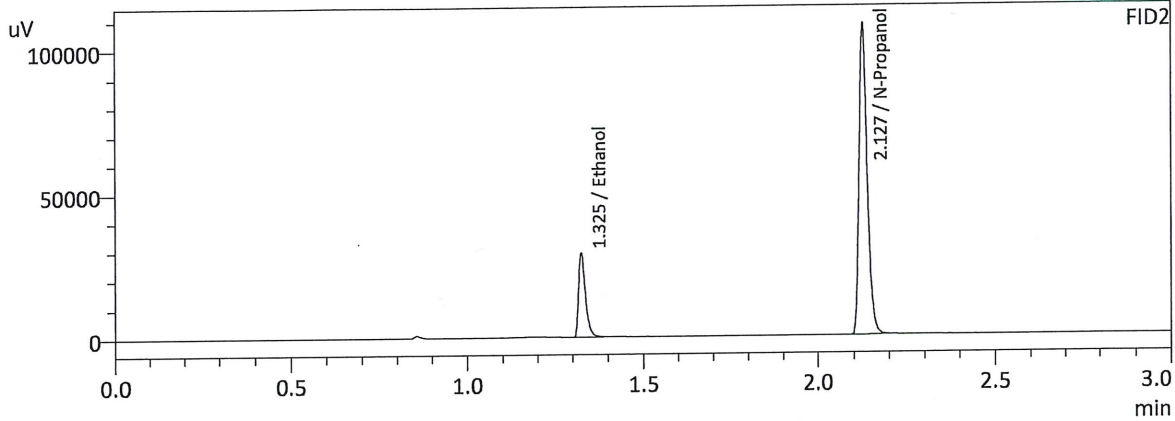
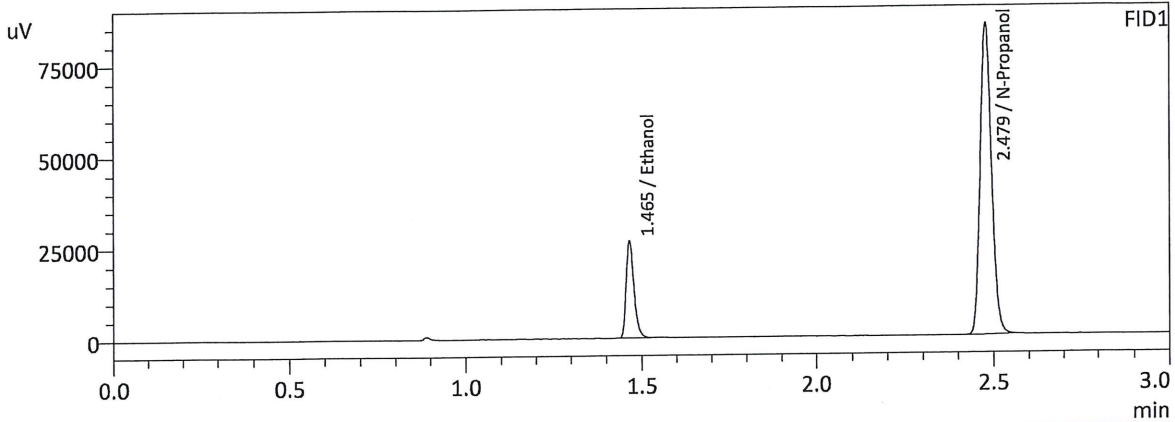
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0543	21185	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	195440	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0534	20423	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	185253	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : 0.100
 Laboratory : Meridian
 Injection Date : 5/3/2022 10:10:54 AM
 Vial # : 2
 Method Filename : C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

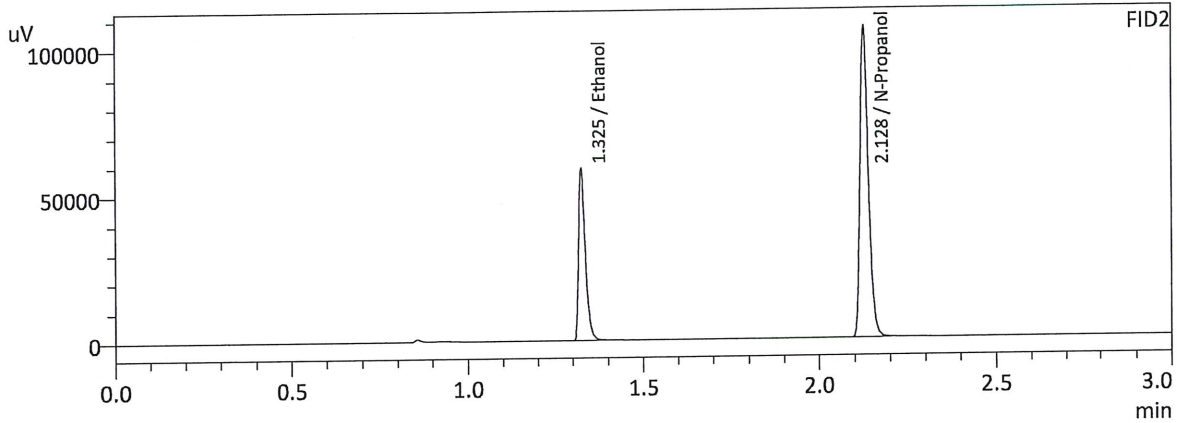
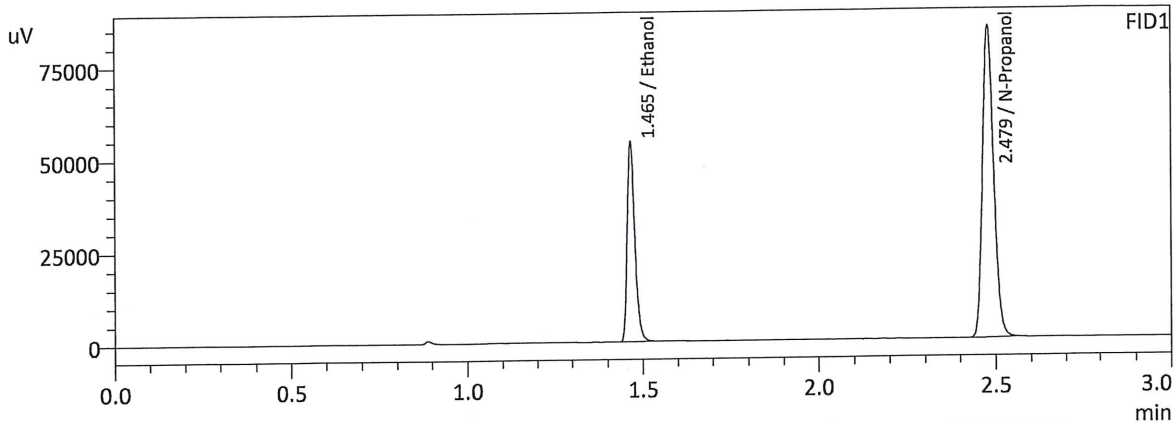
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0991	40275	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	187853	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0991	38551	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	177786	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : 0.200
 Laboratory : Meridian
 Injection Date : 5/3/2022 10:18:30 AM
 Vial # : 3
 Method Filename : C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

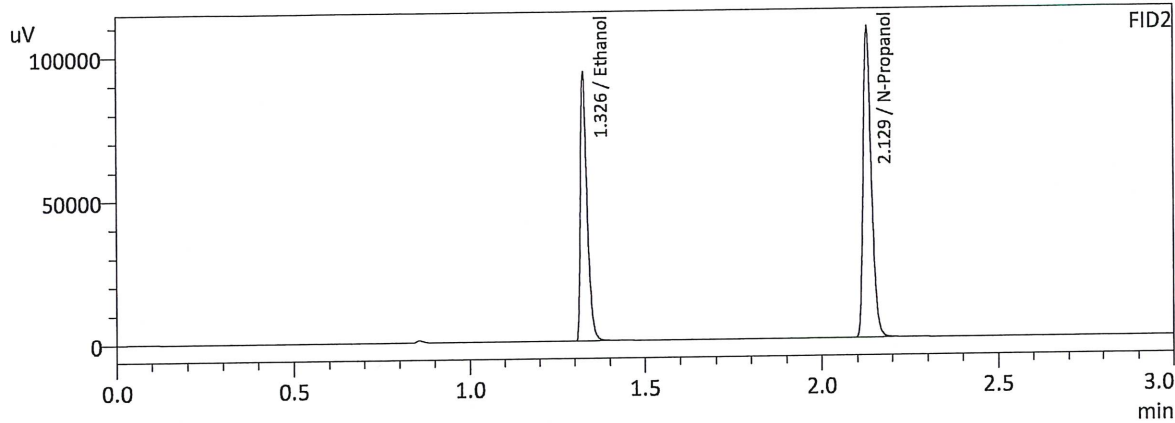
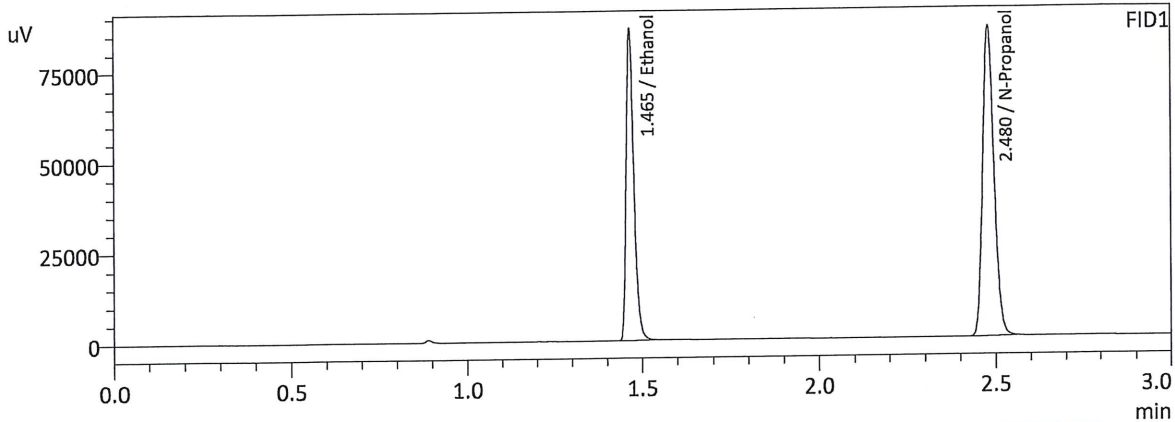
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1947	81818	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	185656	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1955	77552	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	175766	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : 0.300
 Laboratory : Meridian
 Injection Date : 5/3/2022 10:26:57 AM
 Vial # : 4
 Method Filename : C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

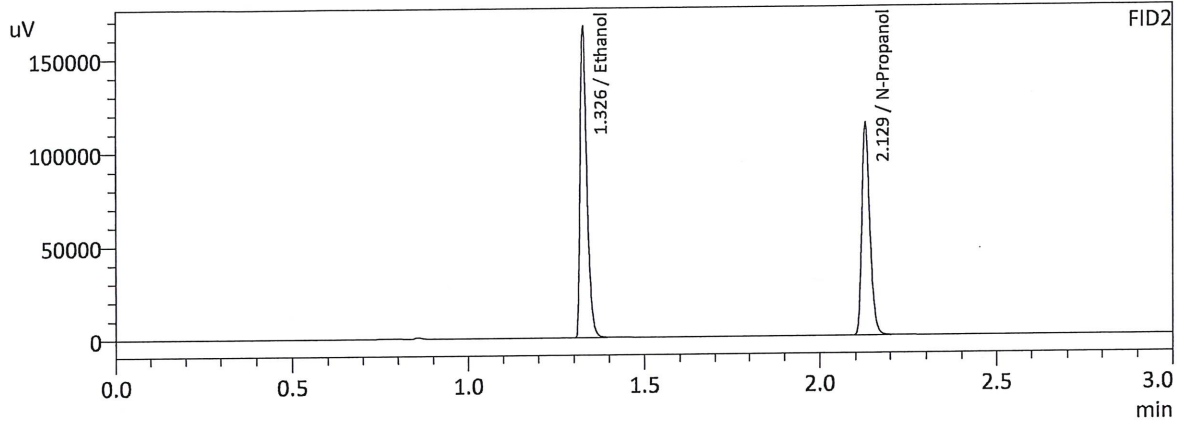
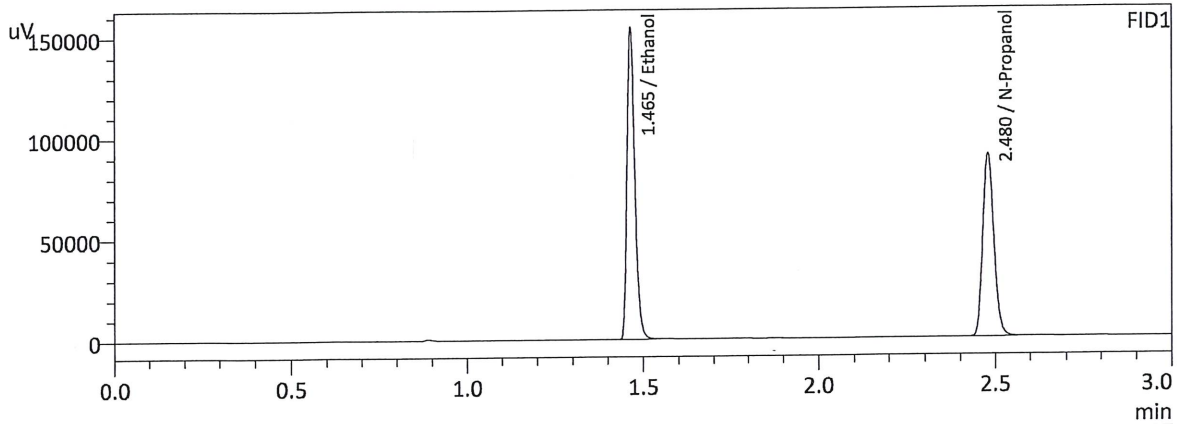
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2997	130498	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	189360	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.3006	122830	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	179031	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : 0.500
 Laboratory : Meridian
 Injection Date : 5/3/2022 10:34:43 AM
 Vial # : 5
 Method Filename : C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

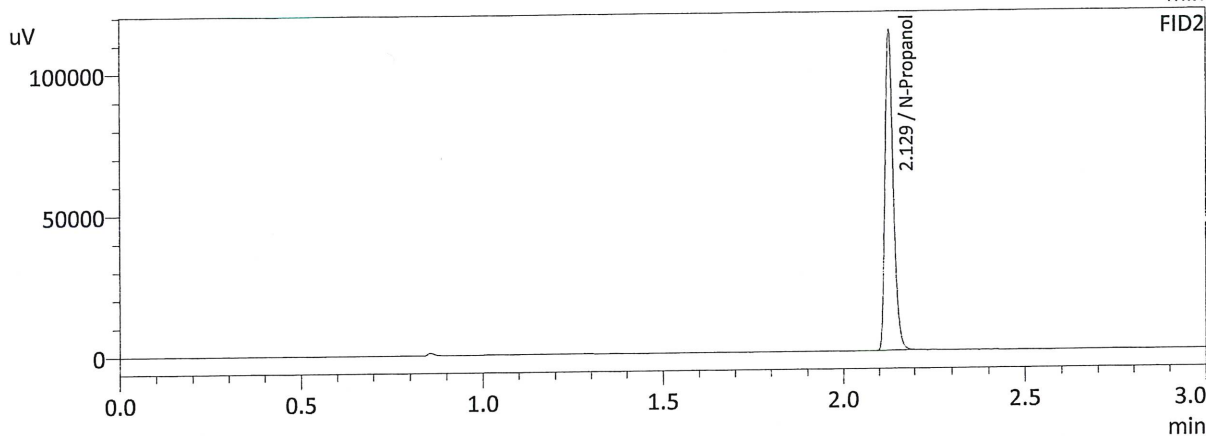
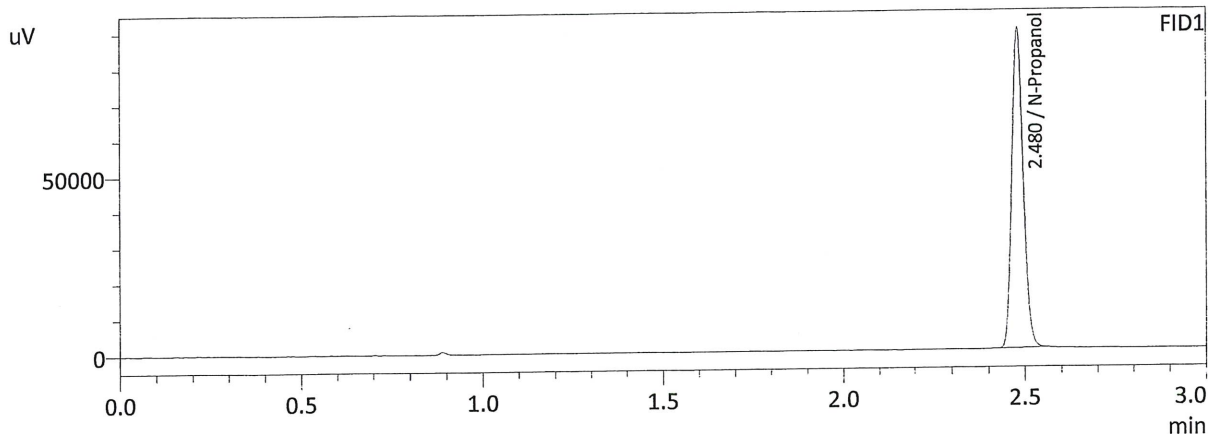
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.5019	232702	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	199308	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.5012	216806	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	188017	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : INT STD BLNK
 Laboratory : Meridian
 Injection Date : 5/3/2022 10:43:21 AM
 Vial # : 6
 Method Filename : C:\LabSolutions\Data\220503\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	198294	g/100cc
Flour. 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	187627	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

**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

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:



The last four items in the batch were accidentally entered into the table in the wrong order. These items were blanks and qualitative standards. The data sheets were corrected to reflect proper labels after the vials actual positions in the sequence order were visually verified on the instrument stage, and the data sets were matched to the printouts. No evidentiary samples were involved, and all analytical method requirements were met.

5/12/2022 GG



Meridian Blood Alcohol Analysis Batch Table

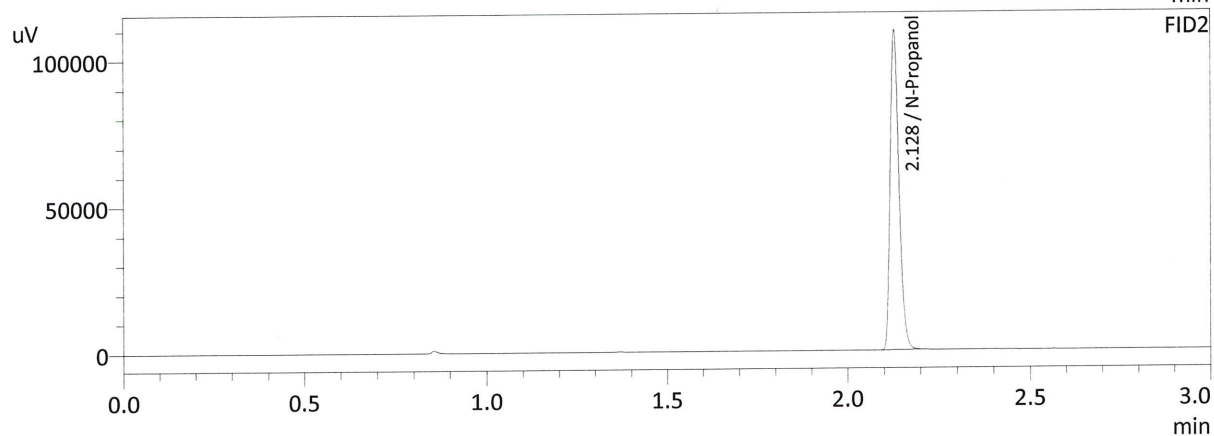
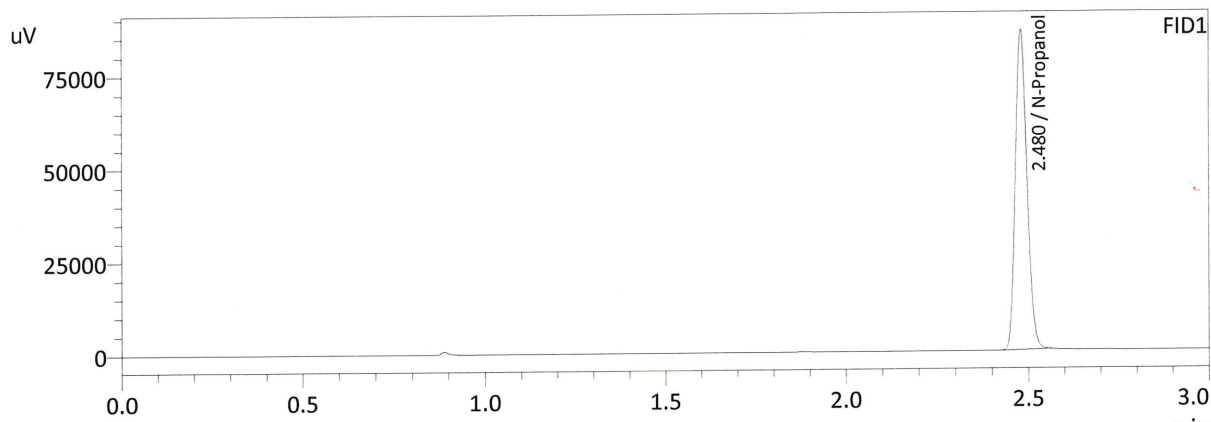
Shimadzu GC-2030 Serial #C12255750548
 Shimadzu HS-20 Serial #C12595800409
 Lab Solutions Software Ver. 5.99
 Copyright (C) 2008-2020 Shimadzu Corporation

Vial#	Sample Name	Method File
1	INT STD BLANK	C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
2	ED VOLATILES FN 0710	C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
3	QC-1-1-A	C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
4	QC-1-1-B	C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
5	0.08 QA-A	C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
6	0.08 QA-B	C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
7	M2022-1820-1-A	C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
8	M2022-1820-1-B	C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
9	M2022-1821-1-A	C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
10	M2022-1821-1-B	C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
11	M2022-1822-1-A	C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
12	M2022-1822-1-B	C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
13	M2022-1823-1-A	C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
14	M2022-1823-1-B	C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
15	M2022-1824-1-A	C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
16	M2022-1824-1-B	C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
17	M2022-1825-1-A	C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
18	M2022-1825-1-B	C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
19	M2022-1826-1-A	C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
20	M2022-1826-1-B	C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
21	M2022-1849-1-A	C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
22	M2022-1849-1-B	C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
23	M2022-1850-1-A	C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
24	M2022-1850-1-B	C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
25	QC-2-1-A	C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
26	QC-2-1-B	C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
27	M2022-1851-1-A	C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
28	M2022-1851-1-B	C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
29	M2022-1852-1-A	C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
30	M2022-1852-1-B	C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
31	M2022-1890-1-A	C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
32	M2022-1890-1-B	C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
33	M2022-1897-1-A	C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
34	M2022-1897-1-B	C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
35	M2022-1910-1-A	C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
36	M2022-1910-1-B	C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
37	M2022-1911-1-A	C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
38	M2022-1911-1-B	C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
39	M2022-1941-1-A	C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
40	M2022-1941-1-B	C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
41	M2022-1942-1-A	C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
42	M2022-1942-1-B	C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
43	M2022-1943-1-A	C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
44	M2022-1943-1-B	C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
45	P2022-1268-1-A	C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
46	P2022-1268-1-B	C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
47	QC1-2-A	C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
48	QC1-2-B	C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
49	DFE 1119140M	C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
50	INT STD BLANK	C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
51	TFE 111914	C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
52	INT STD BLANK	C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM

5/12/22
 88

W

Sample Name : INT STD BLANK
 Laboratory : Meridian
 Injection Date : 5/11/2022 11:13:34 AM
 Vial # : 1
 Method Filename : C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

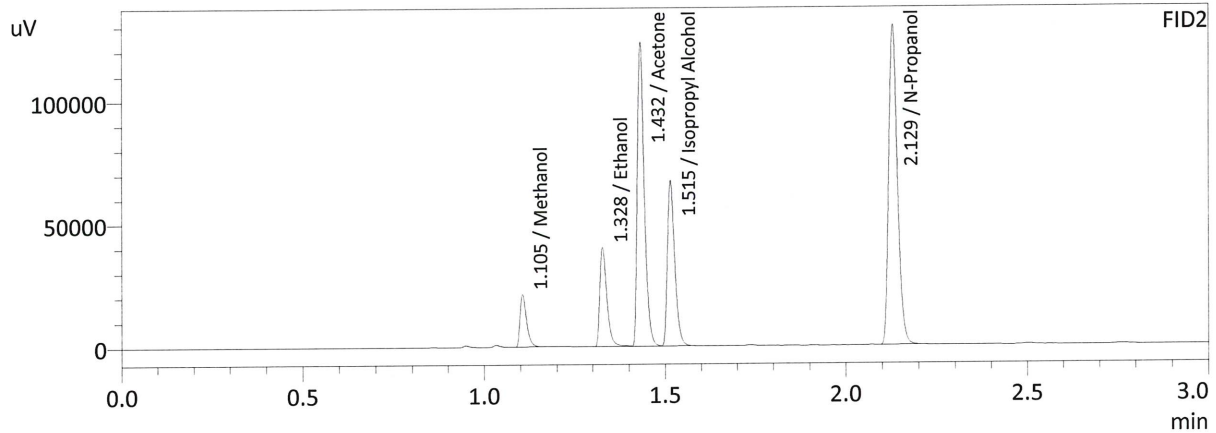
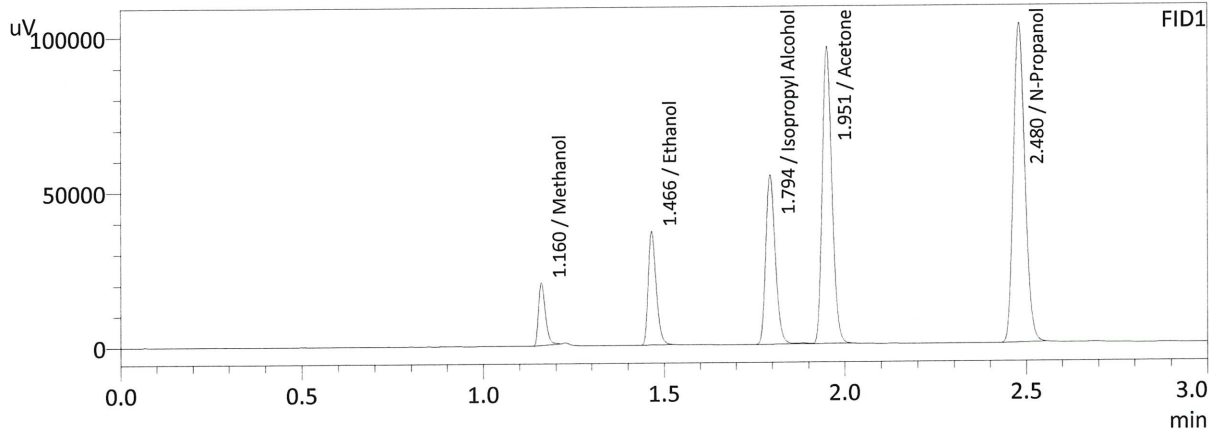
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	190118	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	180219	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : MIXED VOLATILES FN 07101701
 Laboratory : Meridian
 Injection Date : 5/11/2022 11:20:53 AM
 Vial # : 2
 Method Filename : C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

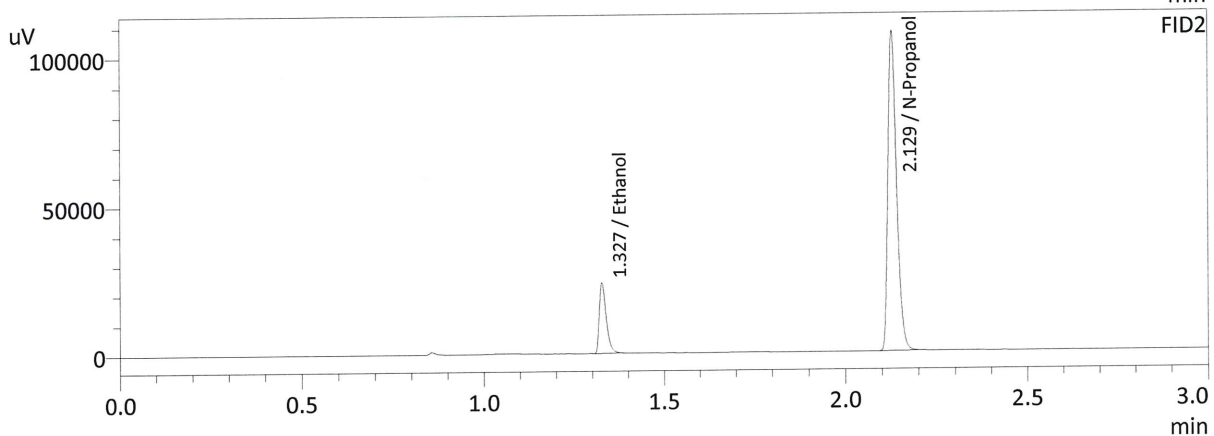
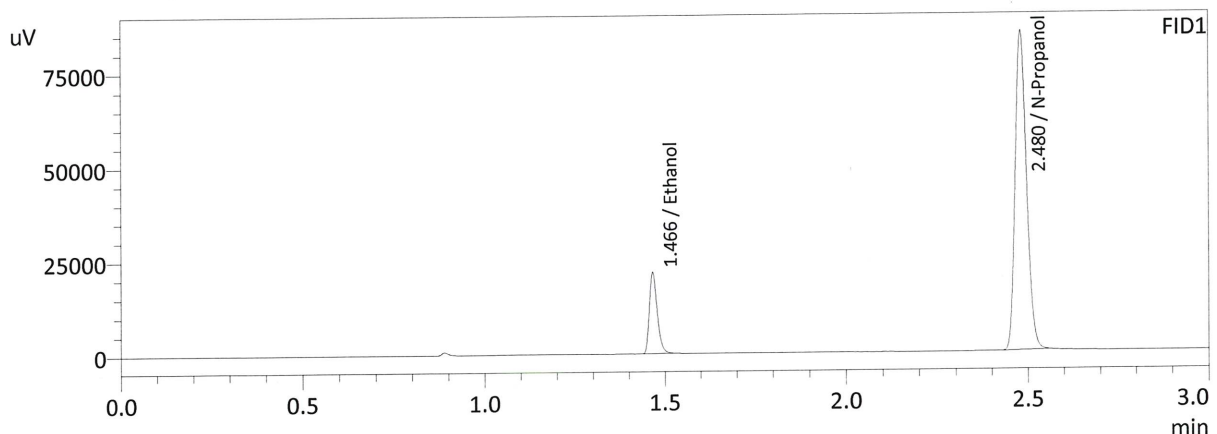
Name	Conc.	Area	Unit
Methanol	0.0000	26959	g/100cc
Ethanol	0.1125	55952	g/100cc
Isopropyl Alcohol	0.0000	100350	g/100cc
Acetone	0.0000	177323	g/100cc
N-Propanol	0.0000	227281	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	0.0000	26535	g/100cc
Ethanol	0.1142	53808	g/100cc
Acetone	0.0000	165482	g/100cc
Isopropyl Alcohol	0.0000	94334	g/100cc
N-Propanol	0.0000	213672	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : 0.08 QA-A
 Laboratory : Meridian
 Injection Date : 5/11/2022 11:44:35 AM
 Vial # : 5
 Method Filename : C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

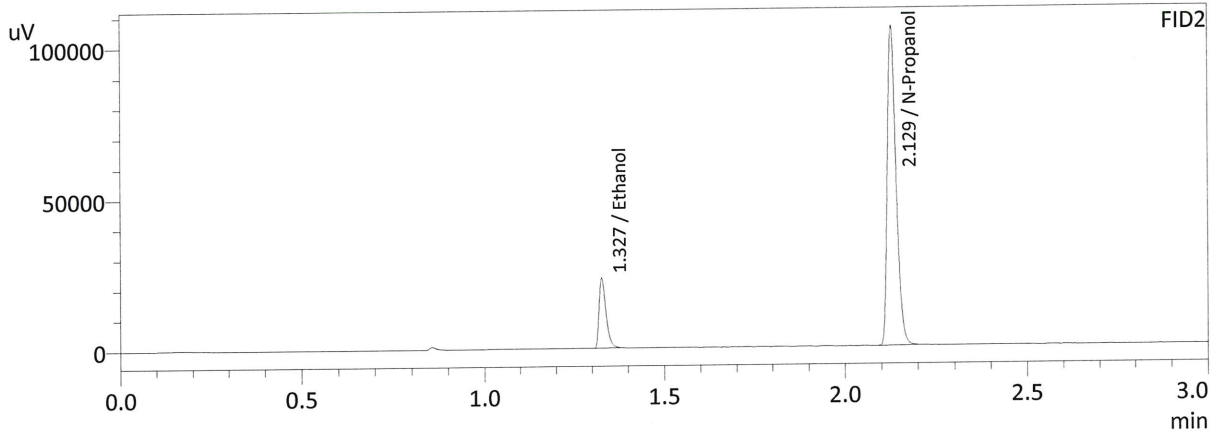
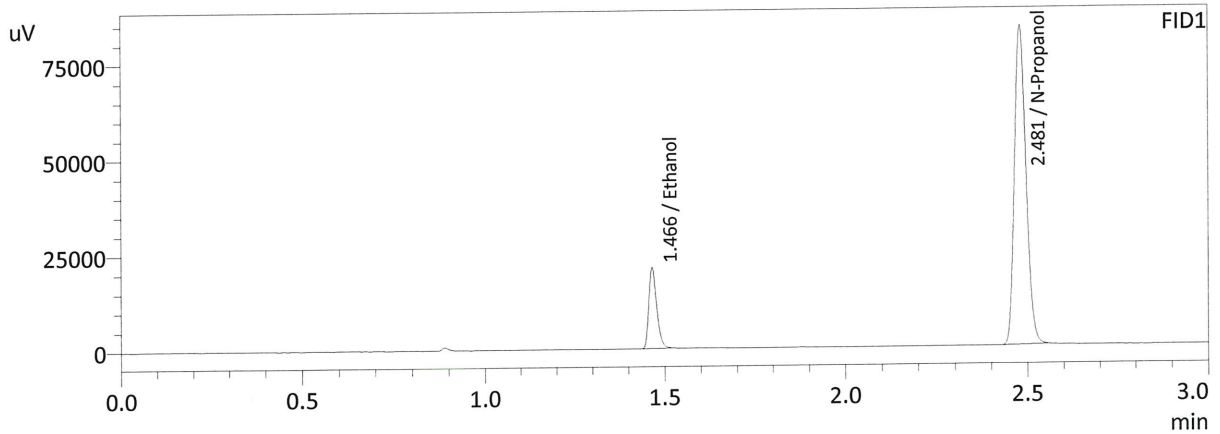
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0831	33065	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	187212	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0830	31755	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	177176	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : 0.08 QA-B
 Laboratory : Meridian
 Injection Date : 5/11/2022 11:52:57 AM
 Vial # : 6
 Method Filename : C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

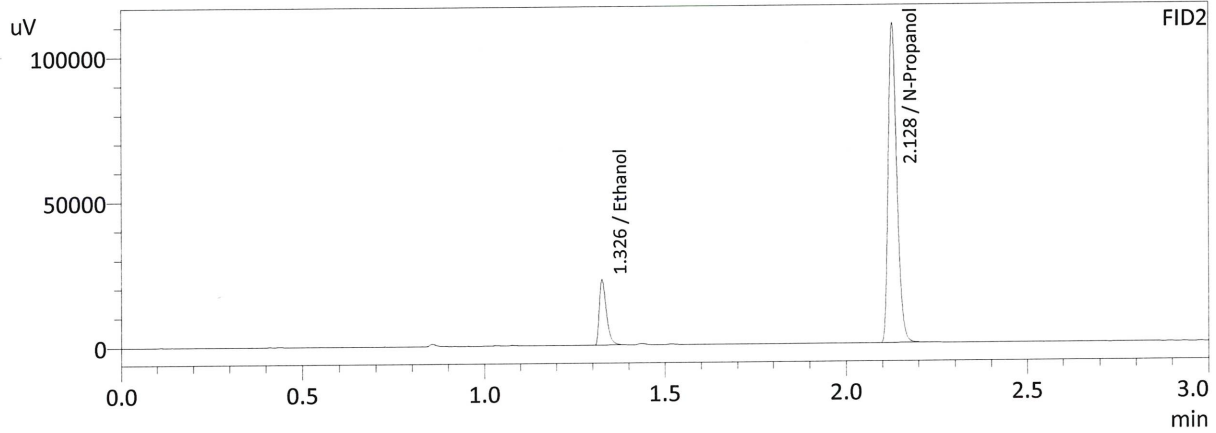
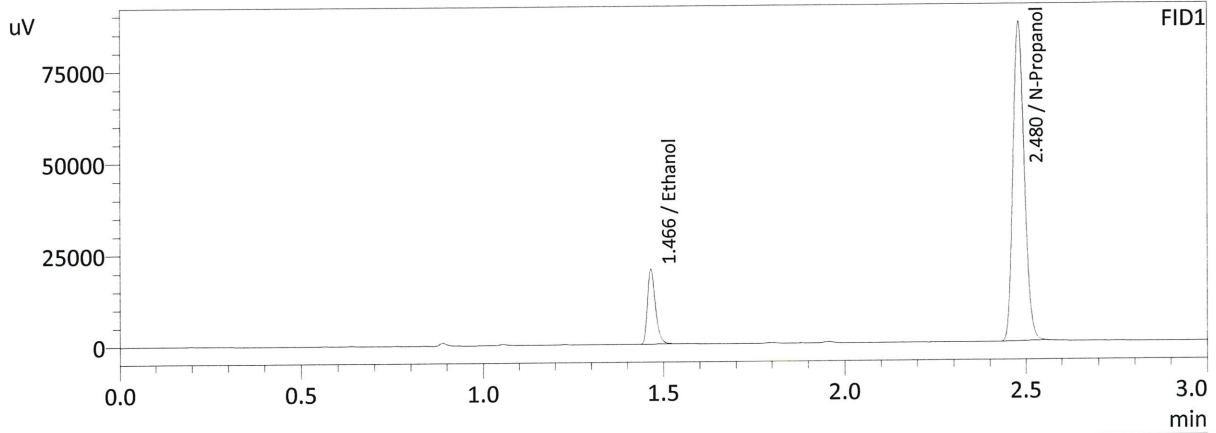
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0827	32354	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	184262	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0823	31010	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	174478	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : QC-1-1-A
 Laboratory : Meridian
 Injection Date : 5/11/2022 11:28:15 AM
 Vial # : 3
 Method Filename : C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

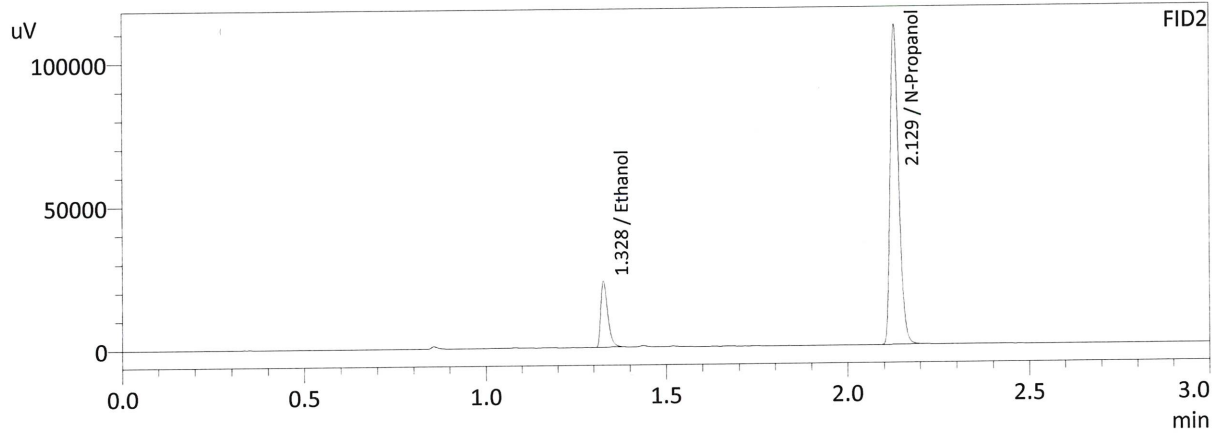
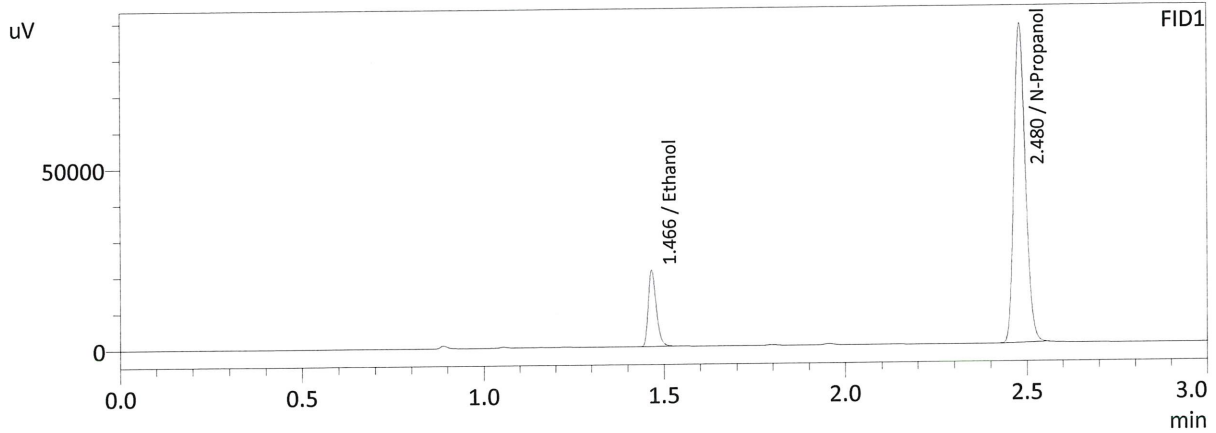
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0773	31284	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	192243	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0768	29950	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	181702	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : QC-1-1-B
 Laboratory : Meridian
 Injection Date : 5/11/2022 11:37:06 AM
 Vial # : 4
 Method Filename : C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

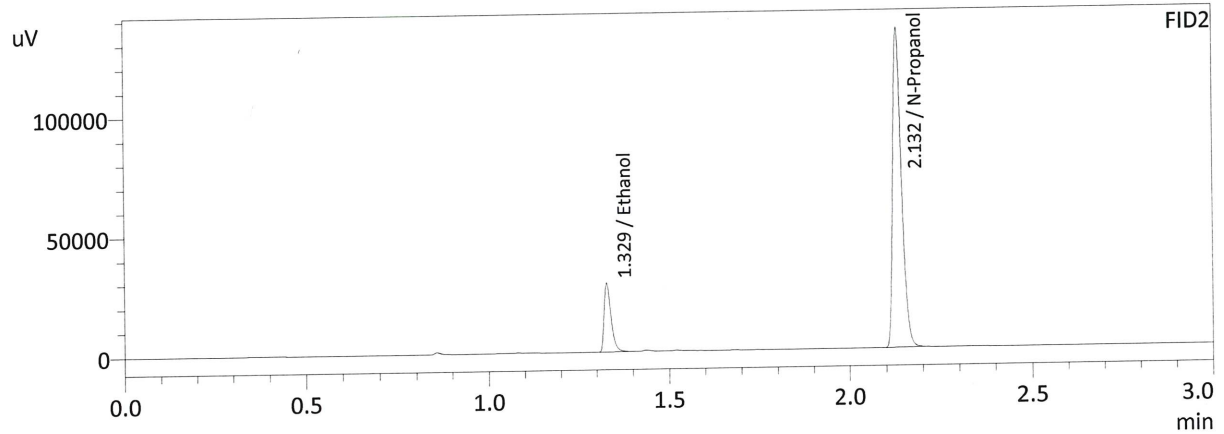
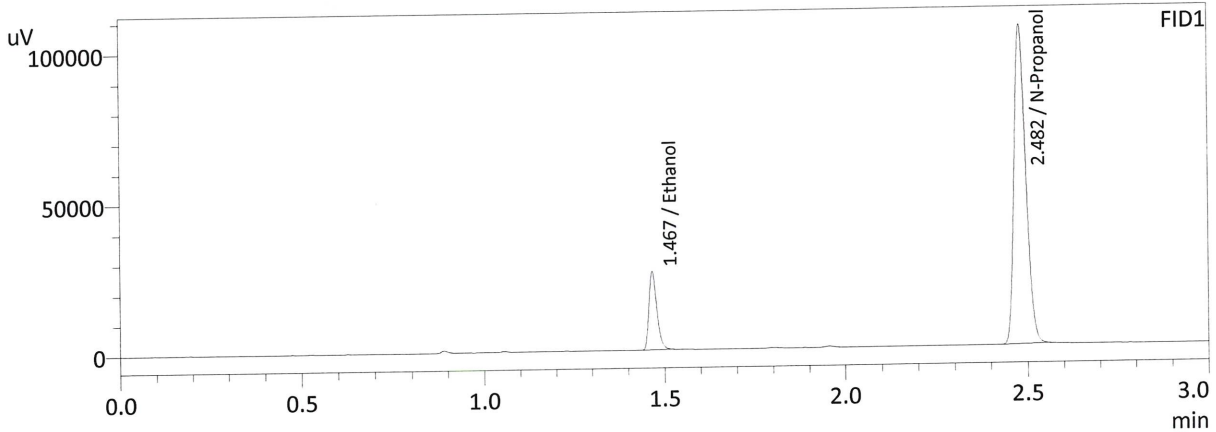
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0790	32345	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	193882	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0785	31006	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	183573	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

✓

Sample Name : QC1-2-A
 Laboratory : Meridian
 Injection Date : 5/11/2022 5:28:58 PM
 Vial # : 47
 Method Filename : C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

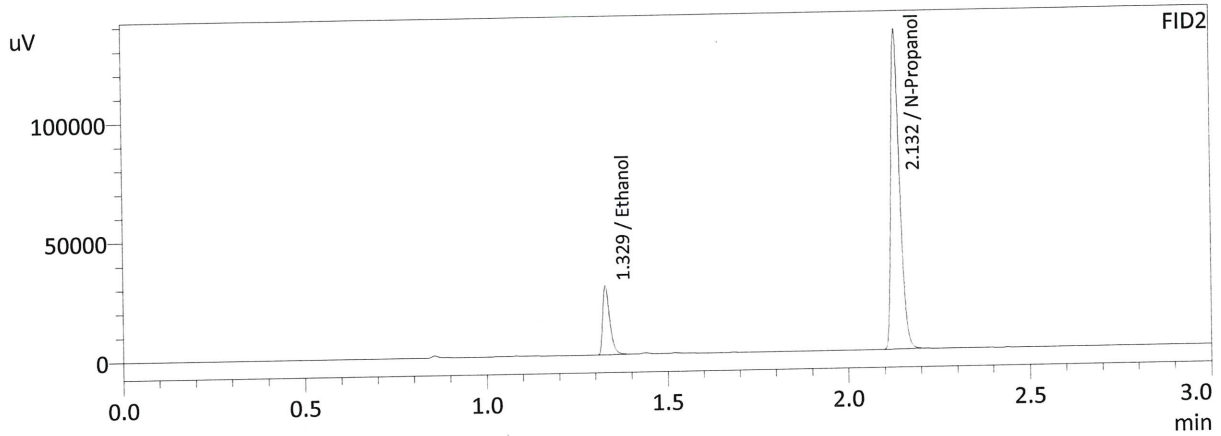
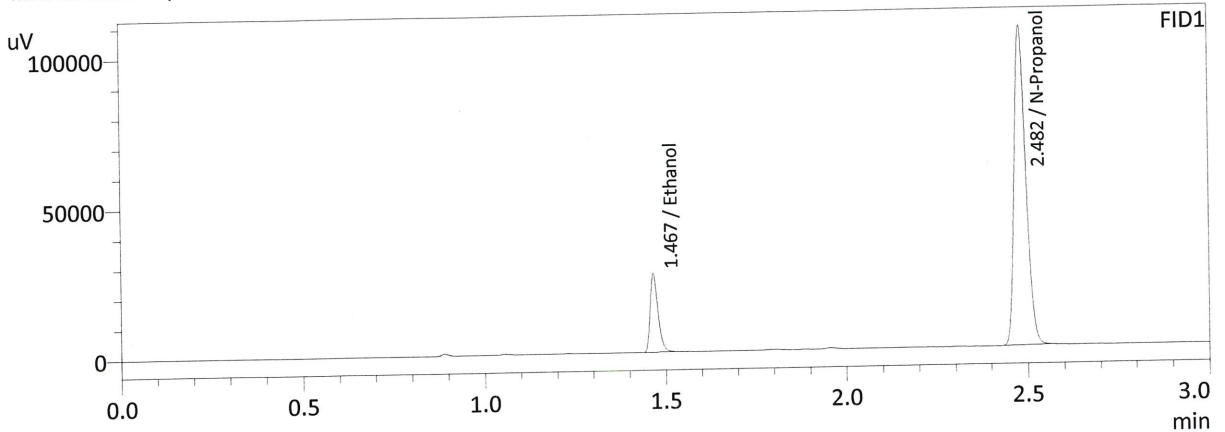
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0801	39782	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	234716	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0801	38209	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	221463	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : QC1-2-B
 Laboratory : Meridian
 Injection Date : 5/11/2022 5:38:37 PM
 Vial # : 48
 Method Filename : C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0805	40042	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	235053	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0805	38474	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	221774	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

VOLATILES BAC CASEFILE WORKSHEET

Laboratory No.: QC 2-1

Item #

Analysis Date(s): 5/11/2022

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.2106	0.2119	0.0013	0.2112	0.0009	0.2116
(g/100cc)	0.2115	0.2127	0.0012	0.2121		

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

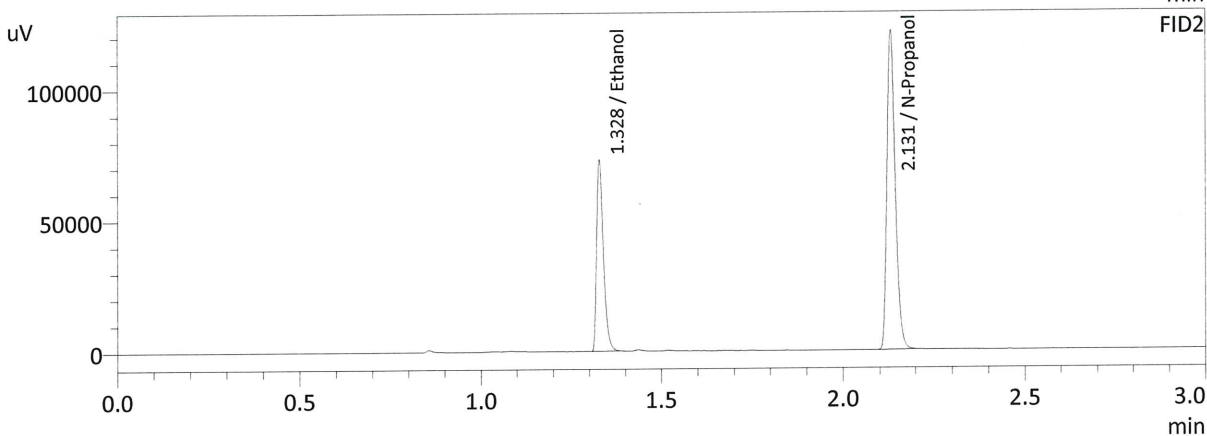
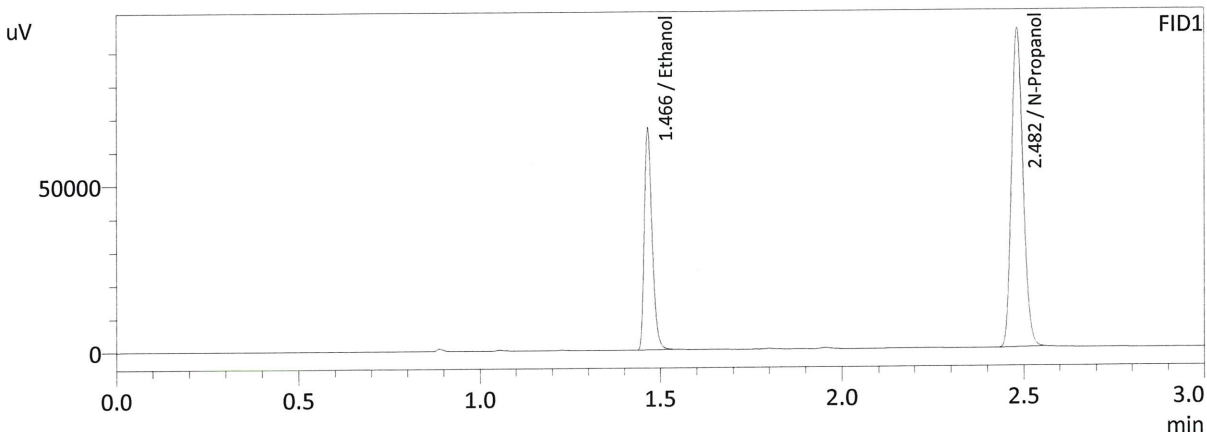
Uncertainty of Measurement (UM%): 5.00%

Overall Mean (g/100cc)	Low	High	5% of Mean
0.211	0.200	0.222	0.011

Reported Result	
0.211	

Calibration and control data are stored centrally.

Sample Name : QC-2-1-A
 Laboratory : Meridian
 Injection Date : 5/11/2022 2:29:03 PM
 Vial # : 25
 Method Filename : C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

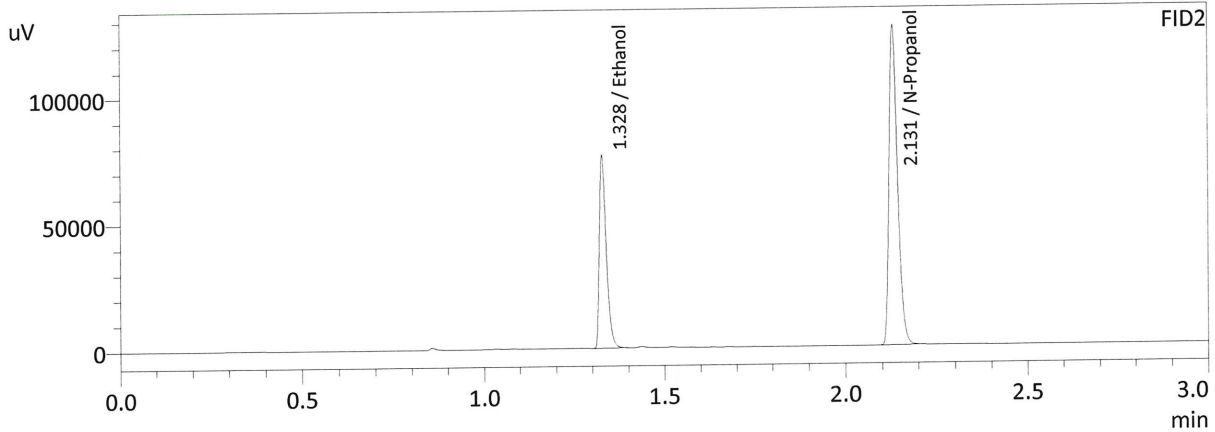
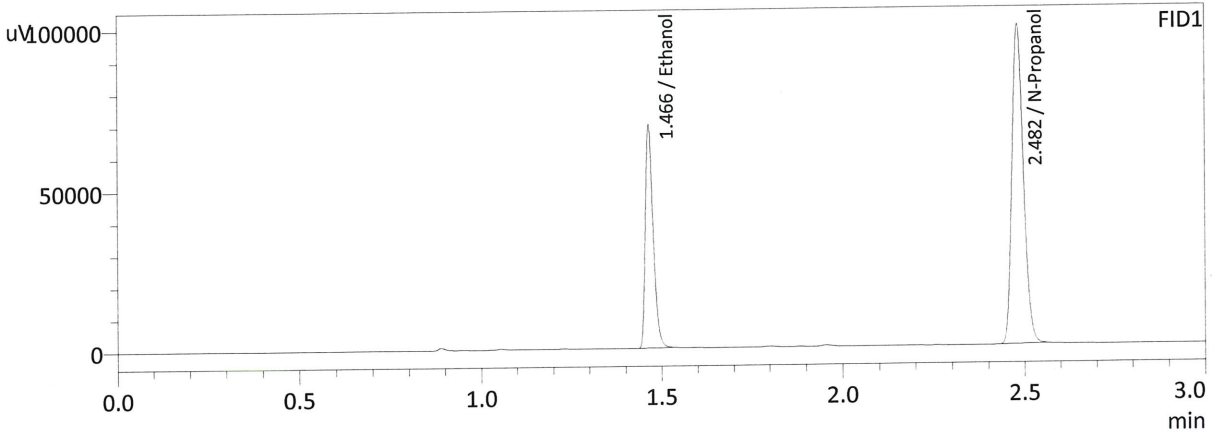
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2106	101811	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	212903	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2119	96391	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	201029	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : QC-2-1-B
 Laboratory : Meridian
 Injection Date : 5/11/2022 2:37:14 PM
 Vial # : 26
 Method Filename : C:\LabSolutions\Data\220503\CALIBRATION\ALCOHOL.GCM
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2115	106221	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	221075	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

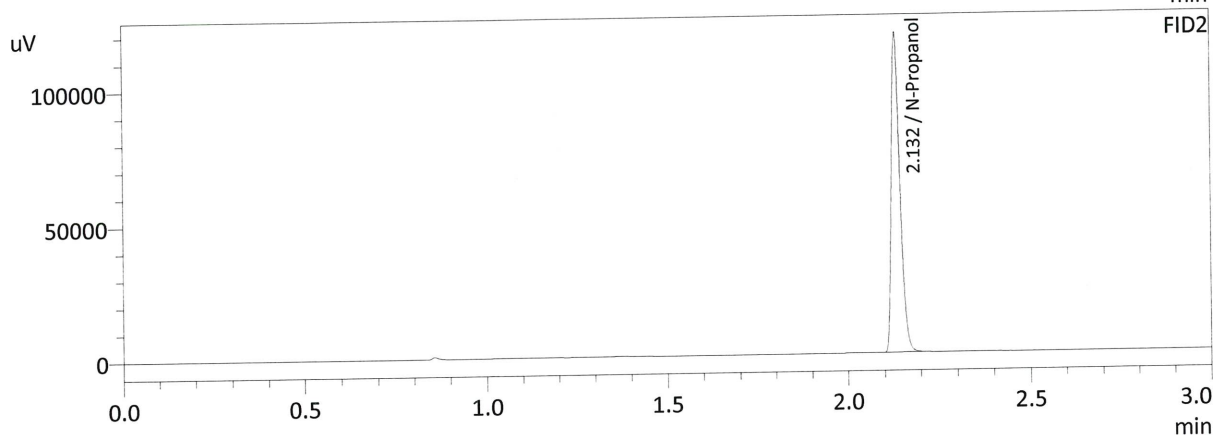
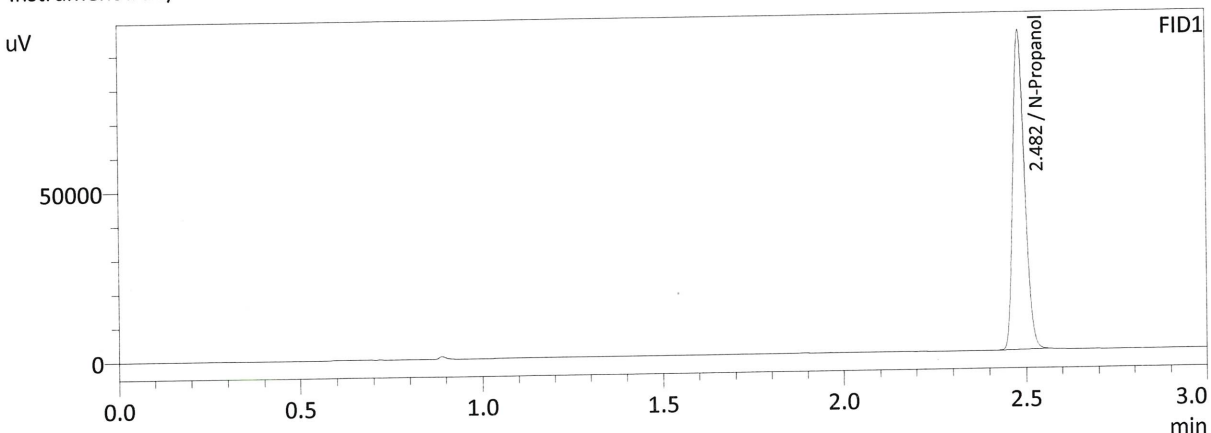
FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2127	100502	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	208765	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Internal Standard Blank 5/12/22 RR

Sample Name : DFE 1119140M
 Laboratory : Meridian
 Injection Date : 5/11/2022 5:45:47 PM
 Vial # : 49
 Method Filename : C:\LabSolutions\Data\220503\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	207721	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

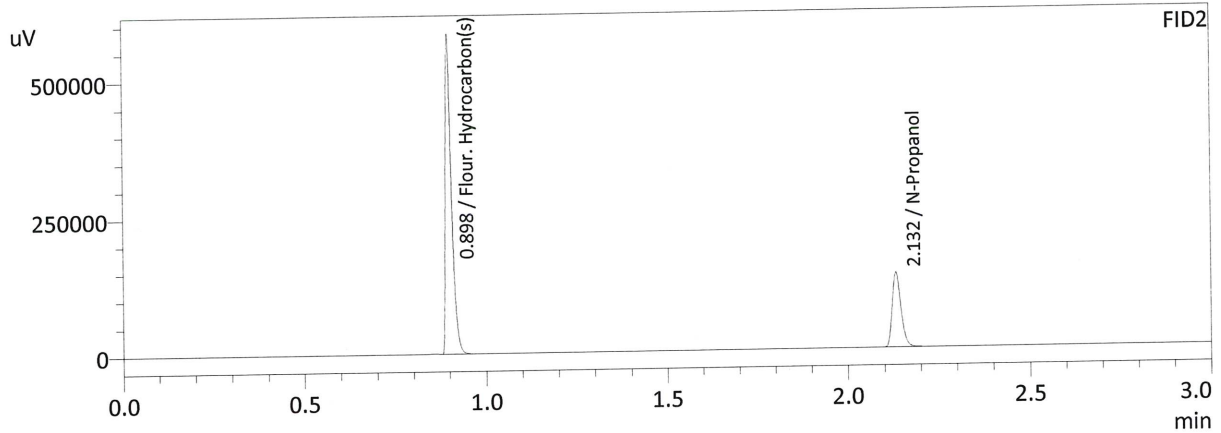
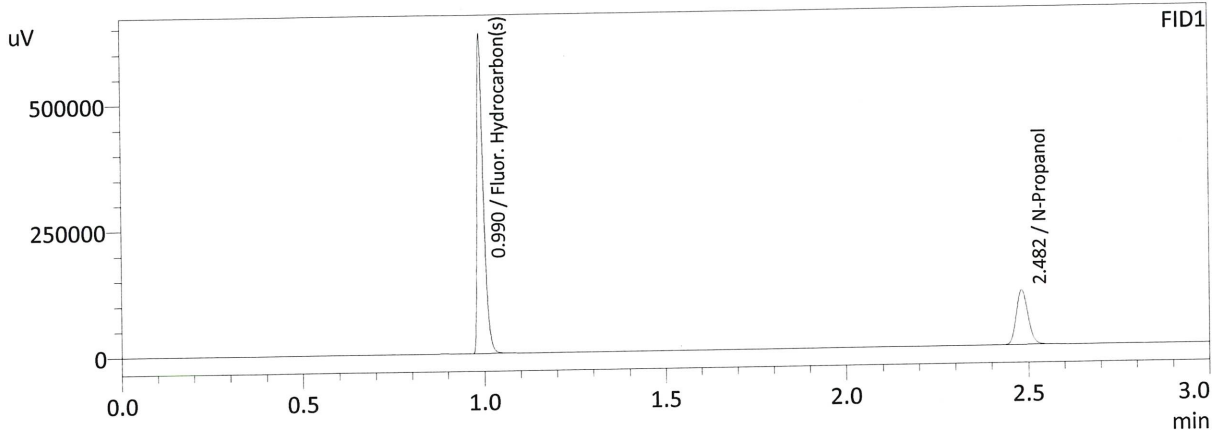
FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	196569	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

DFE 1119140M 5/12/22 BT

Sample Name : INT-STD-BLANK
 Laboratory : Meridian
 Injection Date : 5/11/2022 5:53:47 PM
 Vial # : 50
 Method Filename : C:\LabSolutions\Data\220503\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	239592	g/100cc
Flour. Hydrocarbon(s)	0.0000	752550	g/100cc

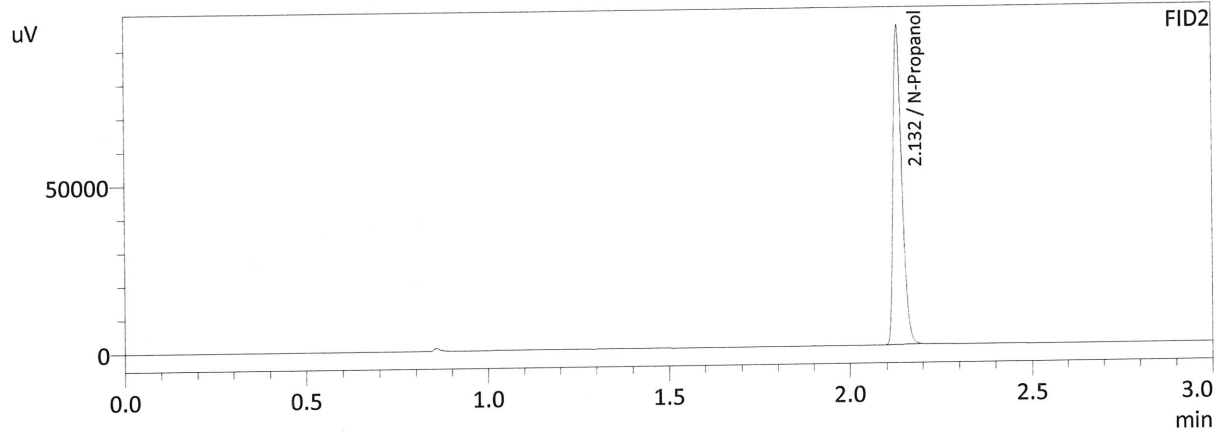
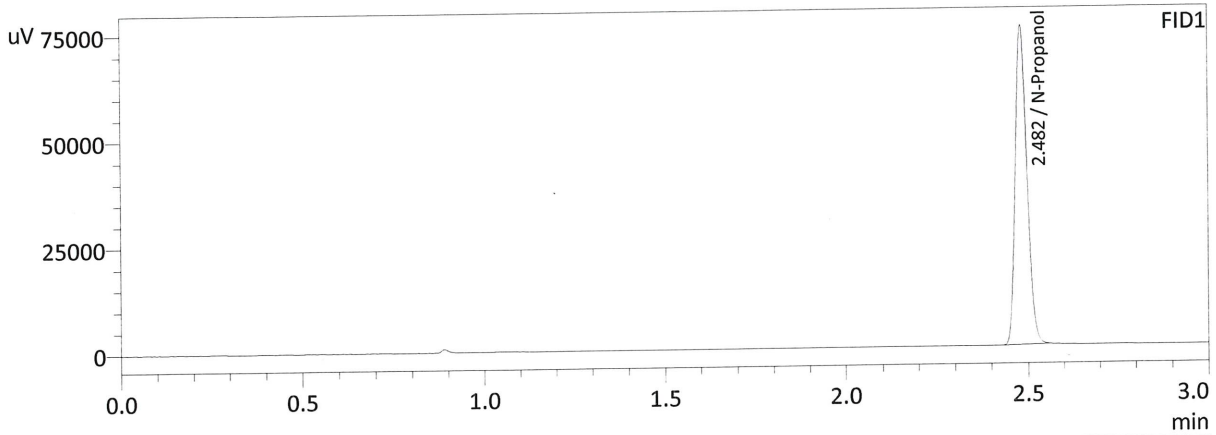
FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	226131	g/100cc
Flour. Hydrocarbon(s)	0.0000	671238	g/100cc

W

Internal Standard Blank 5/12/22 br

Sample Name : TFE-111914-
 Laboratory : Meridian
 Injection Date : 5/11/2022 6:03:33 PM
 Vial # : 51
 Method Filename : C:\LabSolutions\Data\220503\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	166381	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

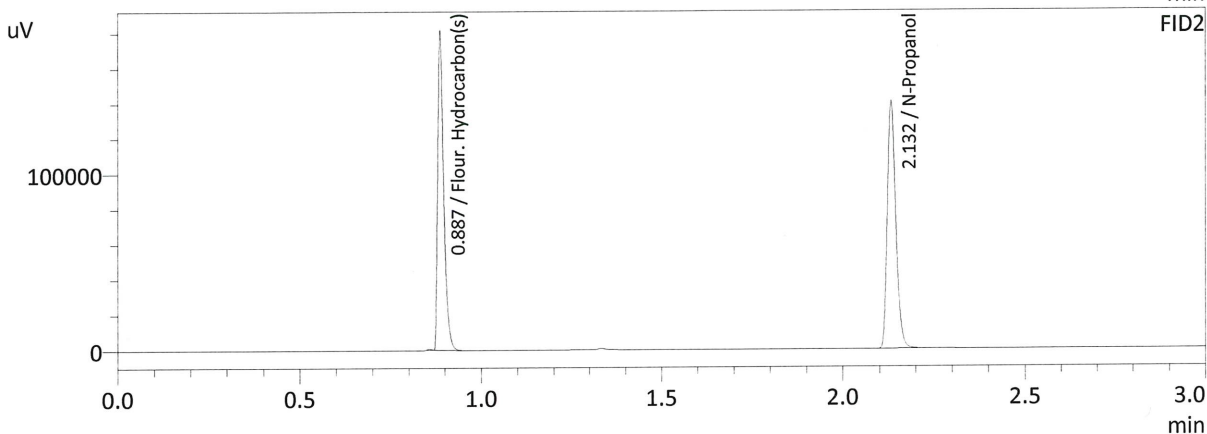
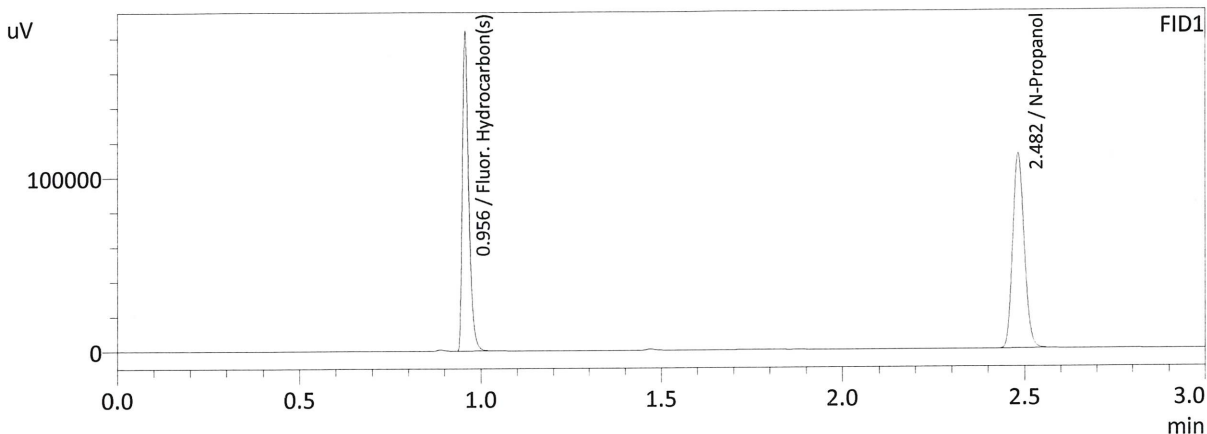
FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	157988	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

TFE 111914 5/12/22 BT

Sample Name : INT-STD-BLANK
 Laboratory : Meridian
 Injection Date : 5/11/2022 6:10:48 PM
 Vial # : 52
 Method Filename : C:\LabSolutions\Data\220503\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	246622	g/100cc
Fluor. Hydrocarbon(s)	0.0000	222776	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	232590	g/100cc
Fluor. Hydrocarbon(s)	0.0000	209542	g/100cc