

Quantitative Analysis for Ethanol & Qualitative Analysis for Other Volatiles

Analytical Method(s): 1.0

Device: Hamilton MICROLAB Liquid Processor/Dilutor Serial Number: ML600HC11378

Volatiles Quality Assurance Controls

Run Date(s): 06/22/23

Calibration Date: 06/22/23

Worklist #: 6413

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Feb-25	2101199	0.0808	0.0727-0.0889	0.0781 g/100cc
					0.0803 g/100cc
					g/100cc
Level 2	Jul-23	1907007	0.2170	0.1953-0.2387	0.2090 g/100cc
					0.2101 g/100cc
					g/100cc
Multi-Component mixture:		Exp:	10/31/2024	Lot #	FN06041902
Curve Fit:			Column 1	0.99925	Column2 0.99928

Ethanol Calibration Reference Material

Calibrator level	Target Value	Acceptable Range	Column 1	Column 2	Precision	Mean
50	0.050	0.045 - 0.055	0.0499	0.0496	0.0003	0.0497
100	0.100	0.090 - 0.110	0.0965	0.0970	0.0005	0.0967
200	0.200	0.180 - 0.220	0.2077	0.2076	1E-04	0.2076
300	0.300	0.270 - 0.330	0.2951	0.2950	1E-04	0.295
400	0.400	0.360 - 0.440			0	#DIV/0!
500	0.500	0.450 - 0.550	0.5004	0.5005	1E-04	0.5004

Aqueous Controls

Control level	Target Value	Acceptable Range	Overall Results
80	0.080	0.076 - 0.084	0.078 g/100cc

REVIEWED

By Jeremy Johnston at 2:29 pm, Jun 23, 2023

BT

Revision: 5

Issue Date: 07/05/2022

Issuing Authority: Quality Manager

Internal Standard Monitoring Worksheet

Worklist #:	6413	Run Date(s):	06/22/23
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Internal Standard Solution:	Prep Date:	6/6/2023	Exp Date:	12/6/2023
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Sample Name	Column 1 Value	Column 2 Value
0.080	201502	220779
0.080	203908	223304
QC1	210215	230319
QC1	204498	223928
QC1	233262	255684
QC1	233851	256483
QC1		
QC1		
QC2	221955	243074
QC2	234558	256690
QC2	235701	258042
QC2	239670	262417
QC2		
QC2		

	Average	(-)20%	(+)20%
Column 1	221912.0	177529.6	266294.4
Column 2	243072.0	194457.6	291686.4

80

Worklist: 6413

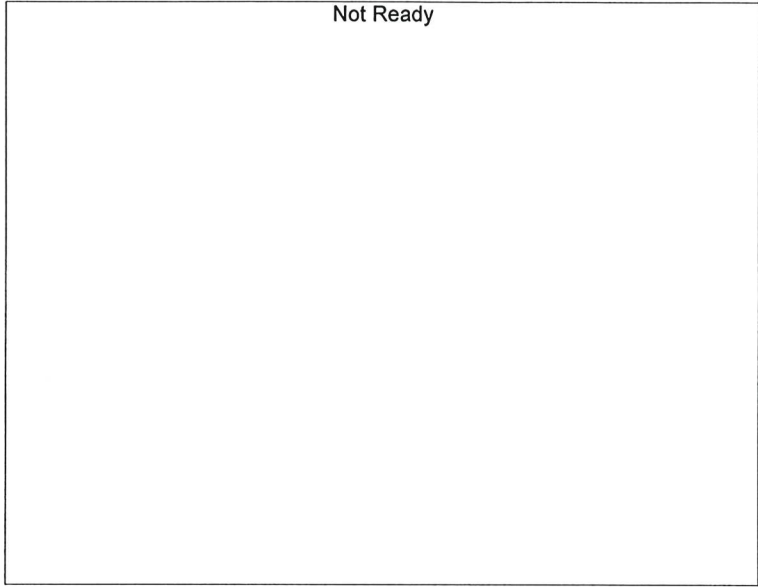
<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
M2023-2474	1	BCK	Alcohol Analysis	
M2023-2500	1	BCK	Alcohol Analysis	
M2023-2518	1	BCK	Alcohol Analysis	
M2023-2522	1	BCK	Alcohol Analysis	
M2023-2526	1	BCK	Alcohol Analysis	
M2023-2537	1	BCK	Alcohol Analysis	
M2023-2550	1	BCK	Alcohol Analysis	
M2023-2551	1	BCK	Alcohol Analysis	
M2023-2552	1	BCK	Alcohol Analysis	
M2023-2553	1	BCK	Alcohol Analysis	
M2023-2554	1	BCK	Alcohol Analysis	
M2023-2567	1	BCK	Alcohol Analysis	
M2023-2569	1	BCK	Alcohol Analysis	
M2023-2650	1	BCK	Alcohol Analysis	
M2023-2651	1	BCK	Alcohol Analysis	
M2023-2661	2	BCK	Alcohol Analysis	
M2023-2662	1	BCK	Alcohol Analysis	
M2023-2663	1	BCK	Alcohol Analysis	
M2023-2701	1	BCK	Alcohol Analysis	

57

Calibration Table

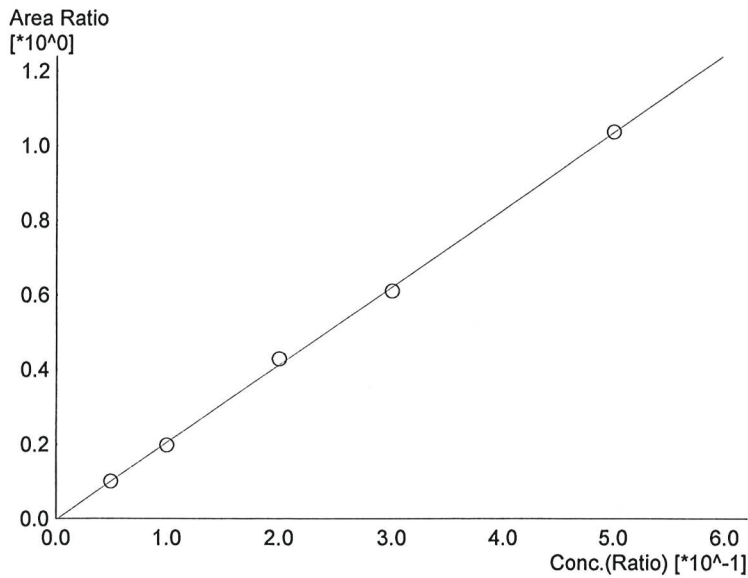
Laboratory : MERIDIAN
 Instrument Name : GC-BAC
 Instrument Serial # : C12595800409 / C12255750548

<<Data File>>
 Method File :Default Project - ALCOHOL_230622.gcm
 Batch File :Default Project - CALCURVE_230622B.gcb
 Date Acquired :6/22/2023 1:14:03 PM
 Date Created :6/22/2023 1:09:36 PM
 Date Modified :6/22/2023 1:48:43 PM



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

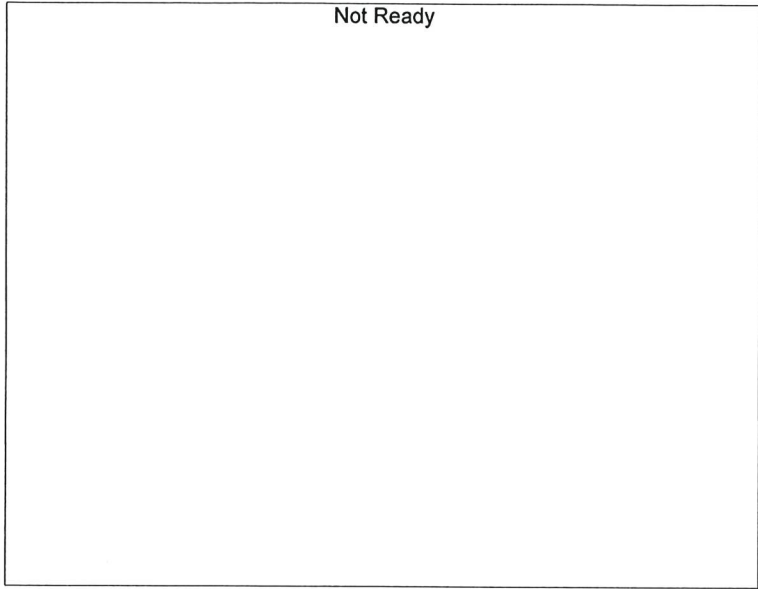
#	Conc.	Area	Std. Conc.
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Name : Ethanol
 Detector Name: FID1
 Function : $f(x)=2.08166*x-0.00415015$
 R² value= 0.9992544
 FitType: Linear
 ZeroThrough: Not Through

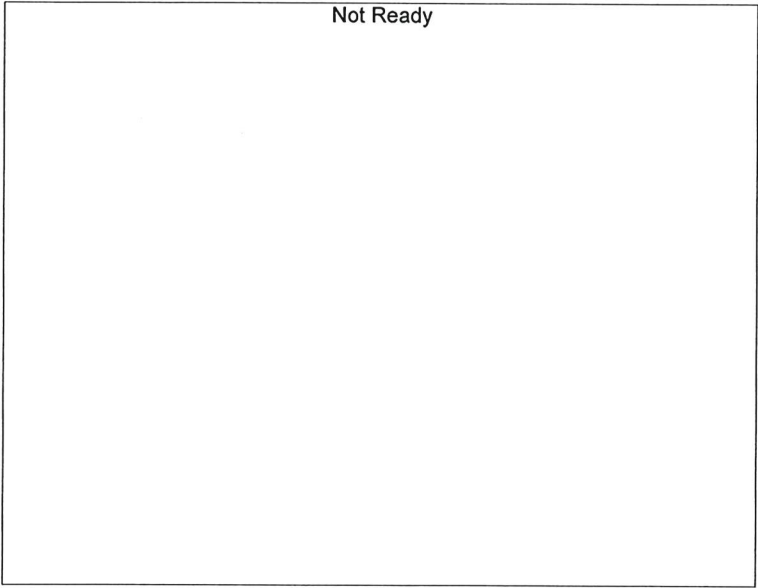
#	Conc.	Area	Std. Conc.
1	0.050	20277	0.0499
2	0.100	39824	0.0965
3	0.200	97859	0.2077
4	0.300	124221	0.2951
5	0.500	221168	0.5004

6v



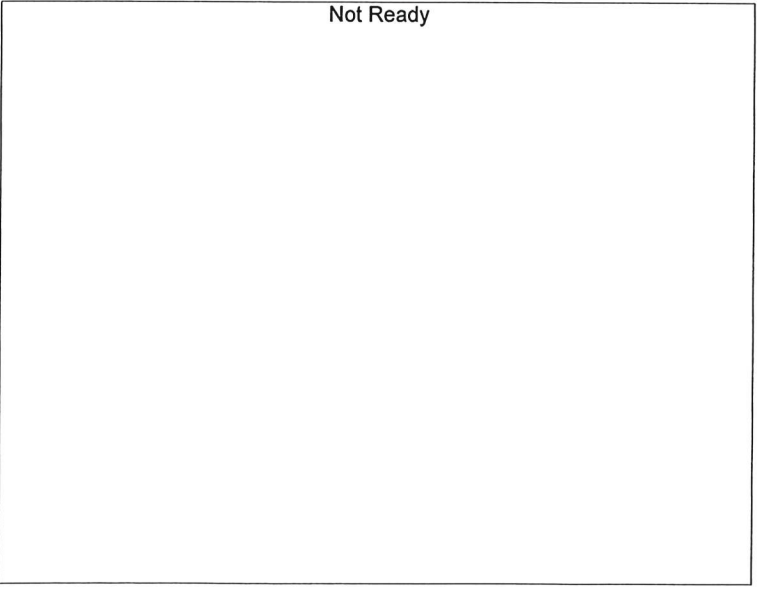
Name : Isopropyl Alcohol
Detector Name: FID1
Function : $f(x)=0*x+0$
R² value= 0
FitType: Linear
ZeroThrough: Not Through

#	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

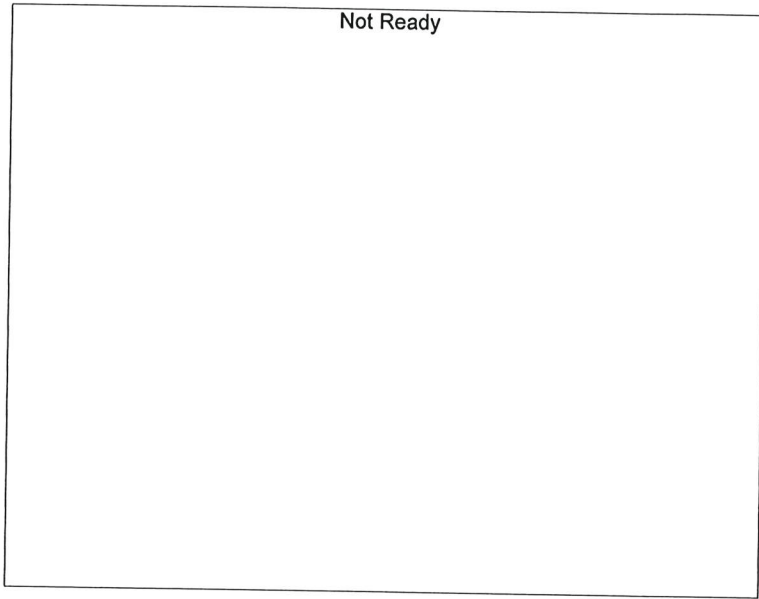
#	Conc.	Area	Std. Conc.
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Name : Fluor. Hydrocarbon(s)
Detector Name: FID1
Function : $f(x)=0*x+0$
R² value= 0
FitType: Linear
ZeroThrough: Not Through

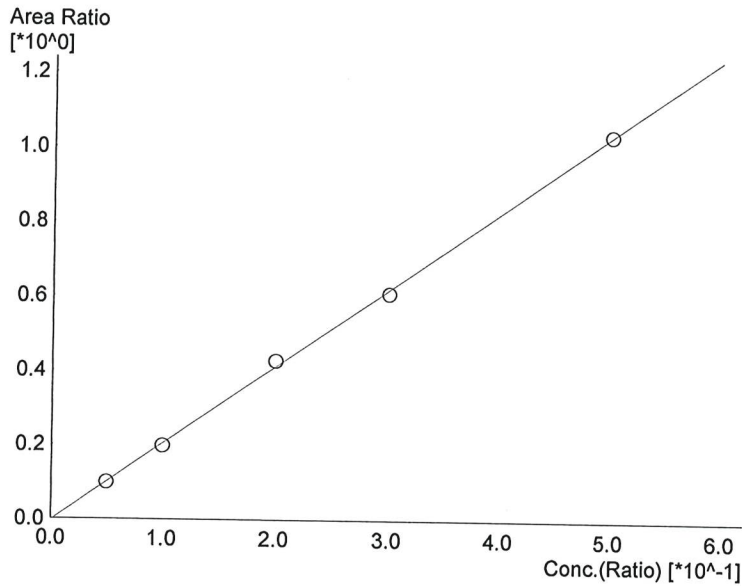
#	Conc.	Area	Std. Conc.
---	-------	------	------------

60



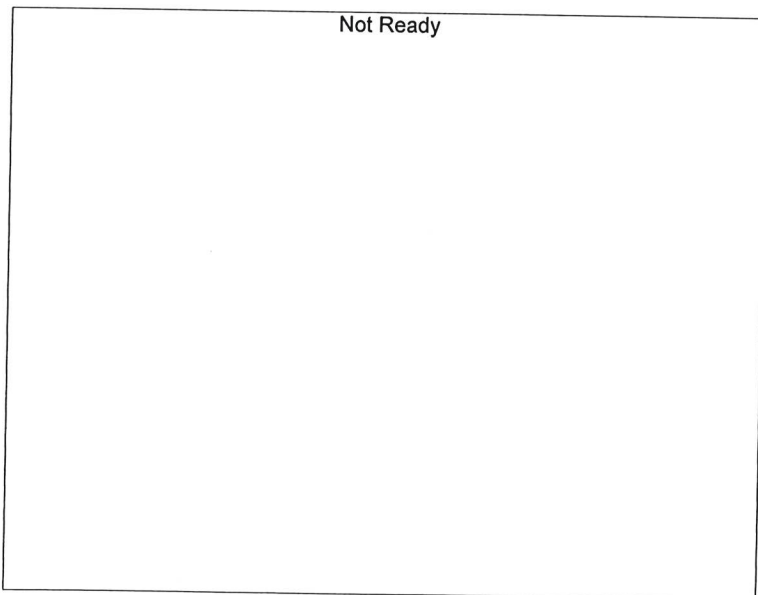
Name : Methanol
 Detector Name: FID2
 Function : $f(x)=0*x+0$
 R² value= 0
 FitType: Linear
 ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
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Name : Ethanol
 Detector Name: FID2
 Function : $f(x)=2.07836*x-0.00399203$
 R² value= 0.9992802
 FitType: Linear
 ZeroThrough: Not Through

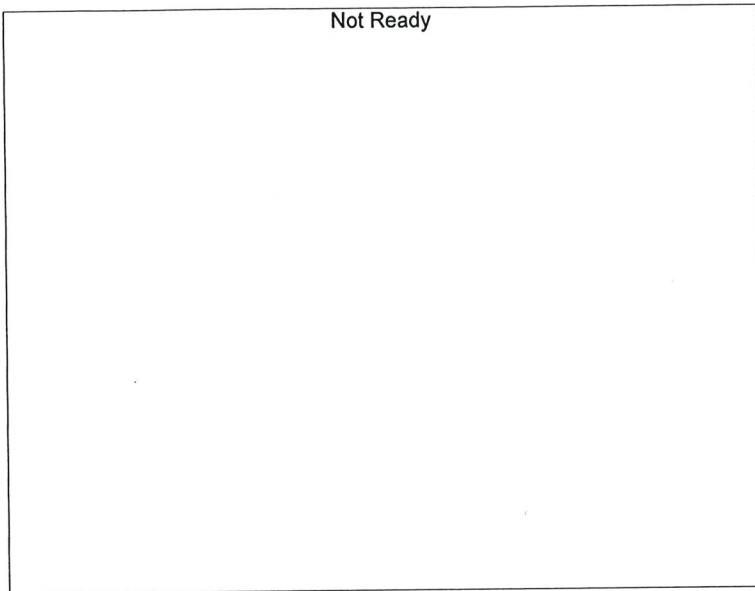
#	Conc.	Area	Std. Conc.
1	0.050	22065	0.0496
2	0.100	43789	0.0970
3	0.200	106890	0.2076
4	0.300	135663	0.2950
5	0.500	241150	0.5005



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

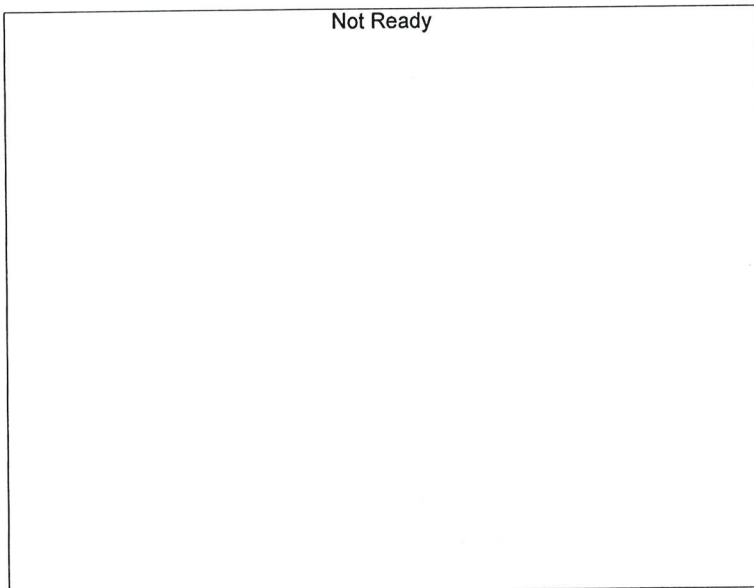
#	Conc.	Area	Std. Conc.
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W



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

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

#	Conc.	Area	Std. Conc.
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W

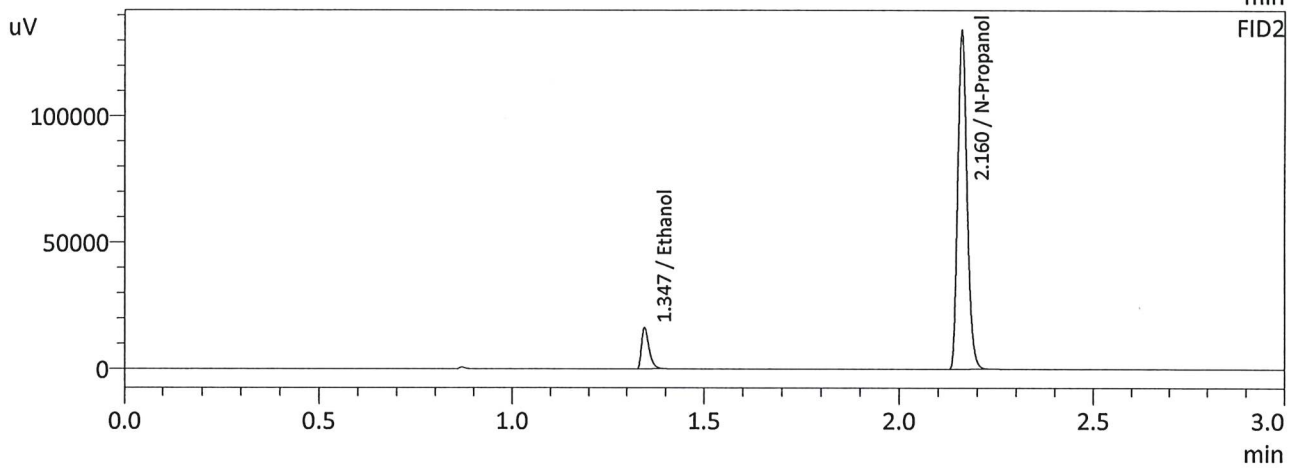
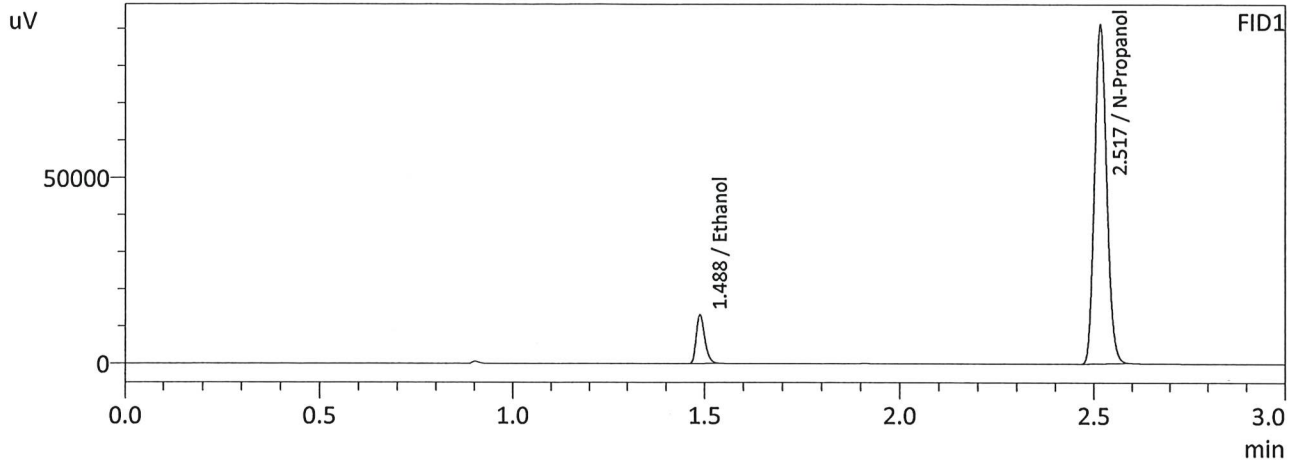
Meridian Blood Alcohol Analysis Batch Table

Shimadzu GC-2030 Serial #C12255750548
Shimadzu HS-20 Serial #C12595800409
Lab Solutions Database Software Ver. 6.111
Copyright (C) 2008-2020 Shimadzu Corporation

Vial#	Sample Name	Sample Type	Level#	Method File
1	0.050	0:Unknown	1	ALCOHOL 230622.gcm
2	0.100	0:Unknown	2	ALCOHOL 230622.gcm
3	0.200	0:Unknown	3	ALCOHOL 230622.gcm
4	0.300	0:Unknown	4	ALCOHOL 230622.gcm
5	0.500	0:Unknown	5	ALCOHOL 230622.gcm
6	INT STD BLK	0:Unknown	0	ALCOHOL 230622.gcm

W

Sample Name : 0.050
 Laboratory : Meridian
 Injection Date : 6/22/2023 12:43:04 PM
 Vial # : 1
 Method Filename : Default Project - ALCOHOL_230622.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

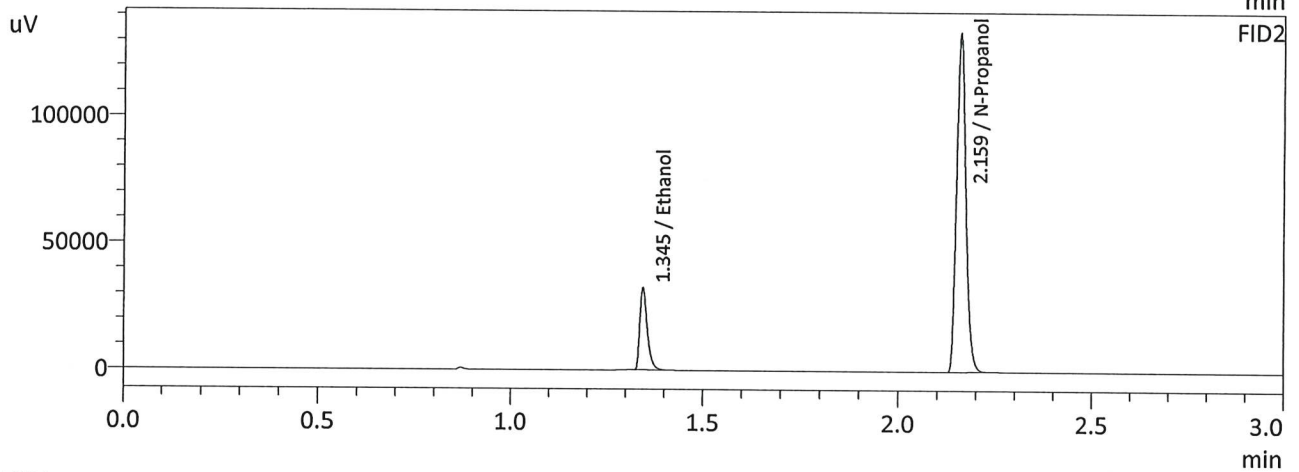
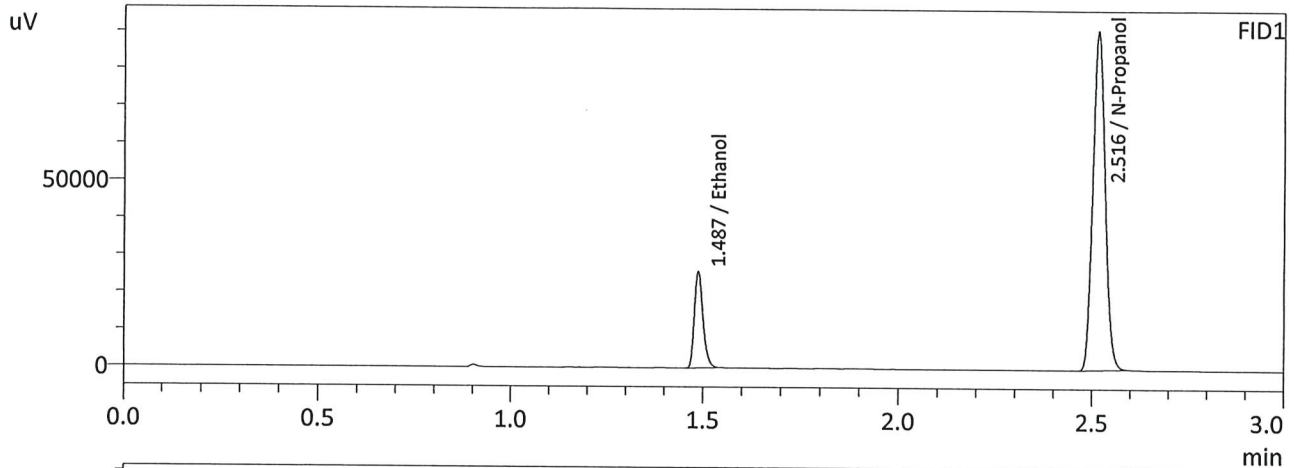
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0499	20277	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	202909	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0496	22065	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	222206	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : 0.100
 Laboratory : Meridian
 Injection Date : 6/22/2023 12:50:24 PM
 Vial # : 2
 Method Filename : Default Project - ALCOHOL_230622.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

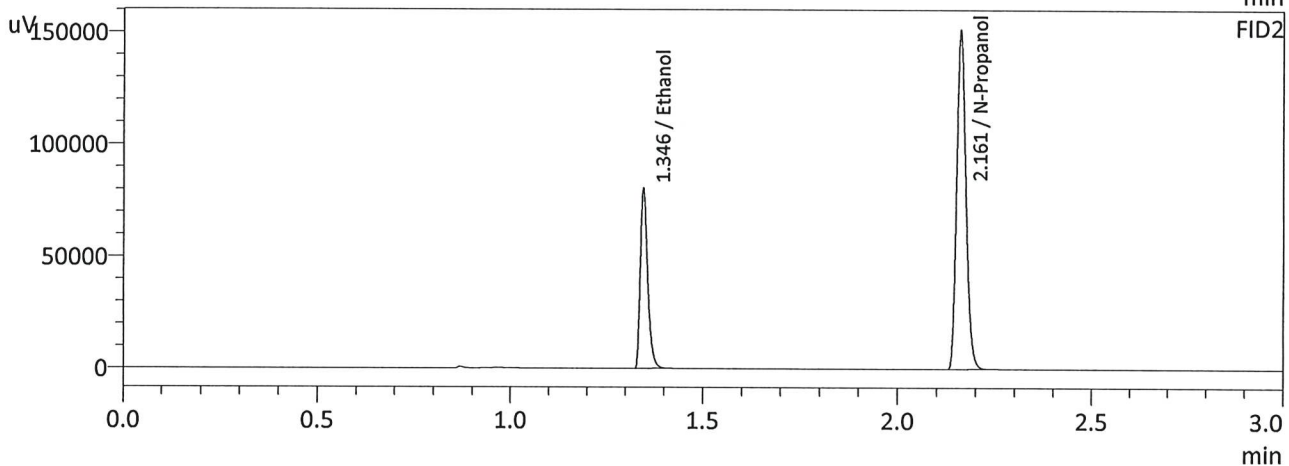
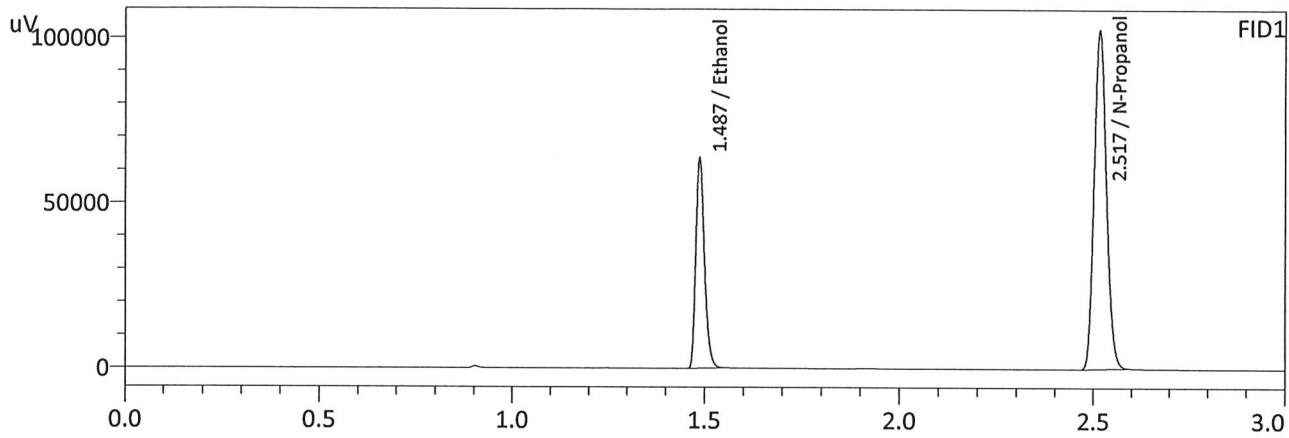
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0965	39824	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	202261	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0970	43789	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	221475	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : 0.200
 Laboratory : Meridian
 Injection Date : 6/22/2023 12:58:05 PM
 Vial # : 3
 Method Filename : Default Project - ALCOHOL_230622.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

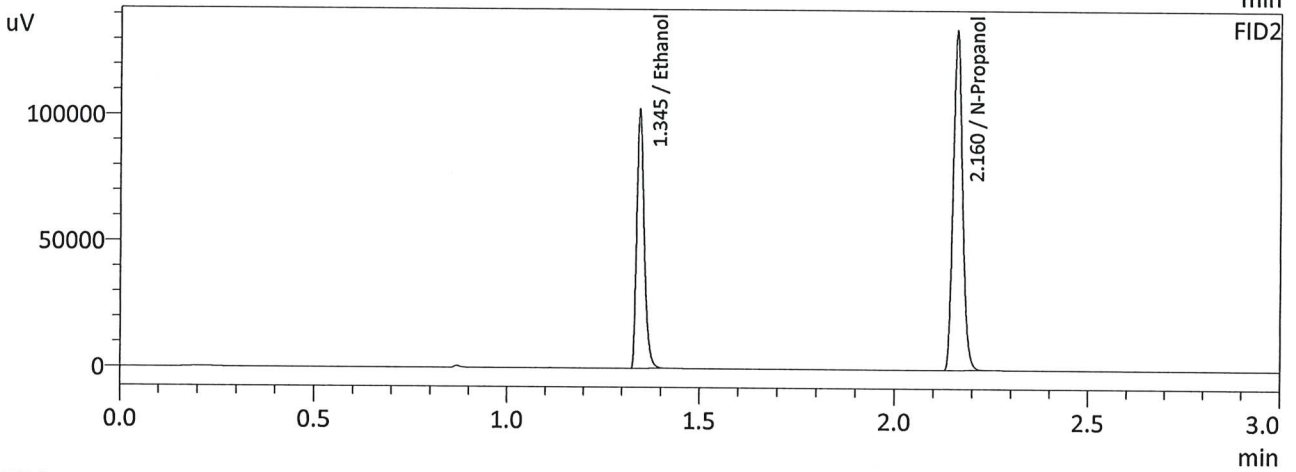
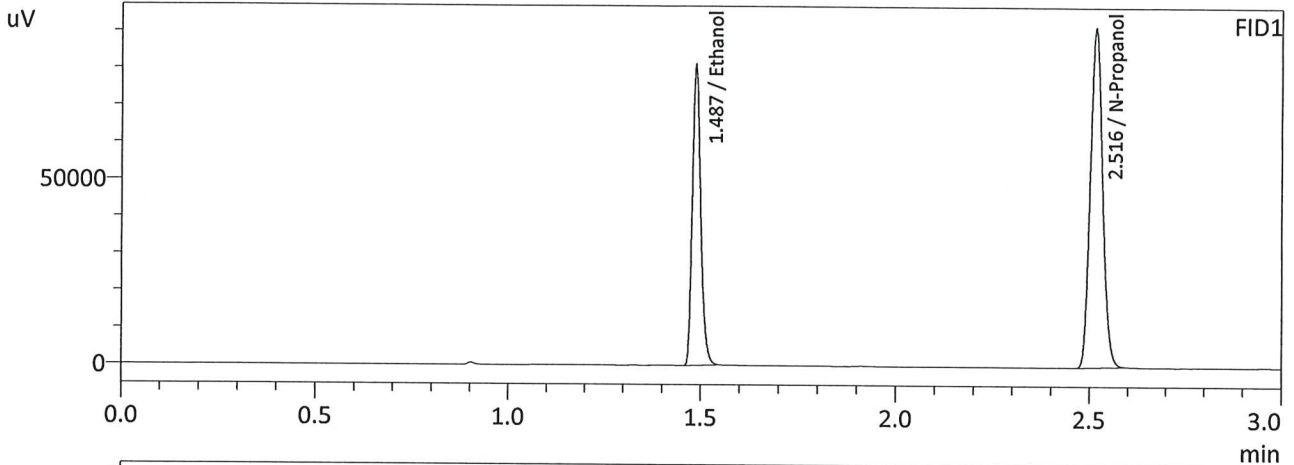
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2077	97859	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	228450	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2076	106890	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	249963	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : 0.300
 Laboratory : Meridian
 Injection Date : 6/22/2023 1:06:32 PM
 Vial # : 4
 Method Filename : Default Project - ALCOHOL_230622.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

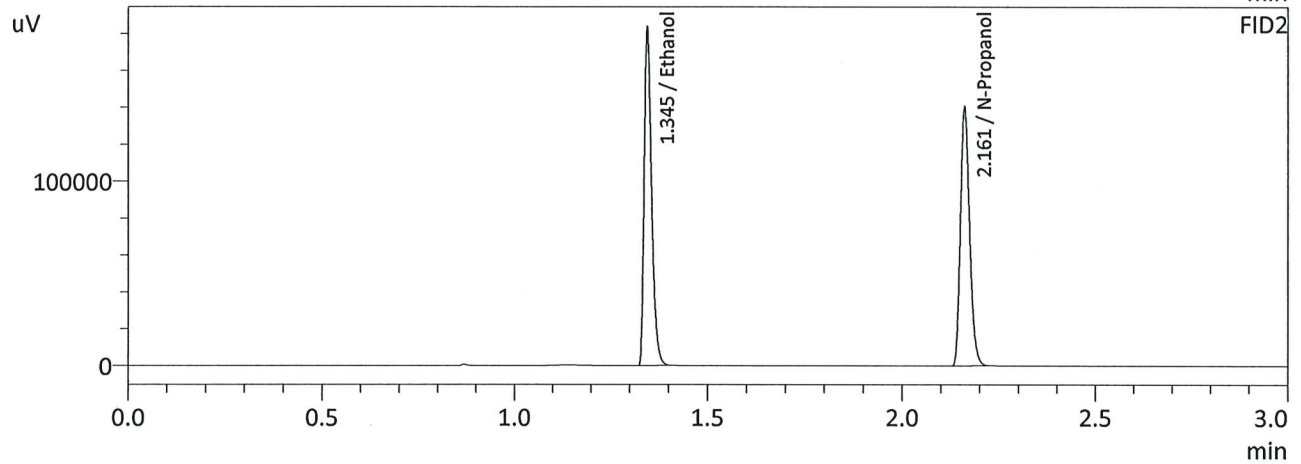
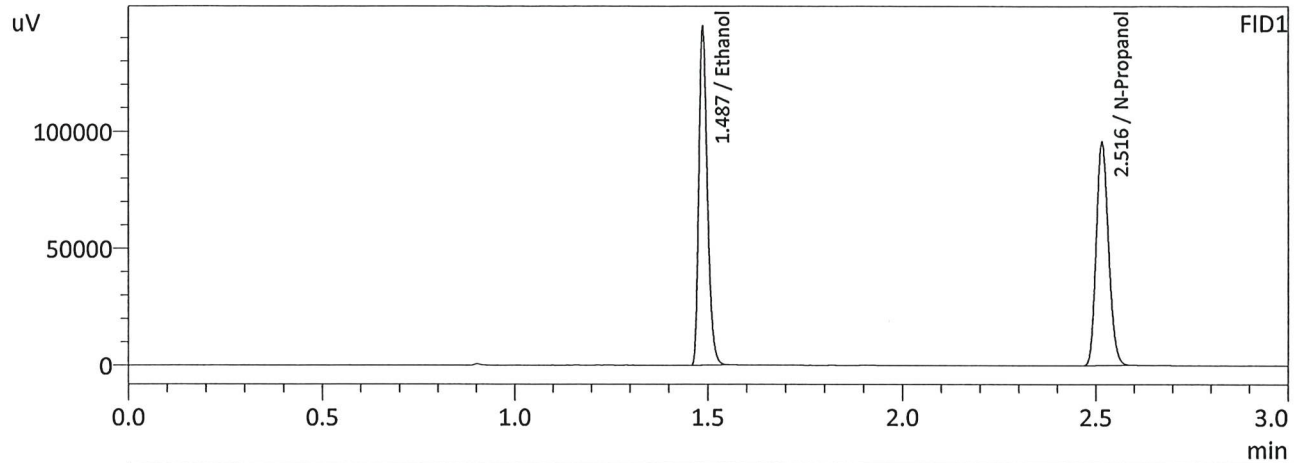
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2951	124221	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	203533	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2950	135663	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	222666	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : 0.500
 Laboratory : Meridian
 Injection Date : 6/22/2023 1:14:03 PM
 Vial # : 5
 Method Filename : Default Project - ALCOHOL_230622.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

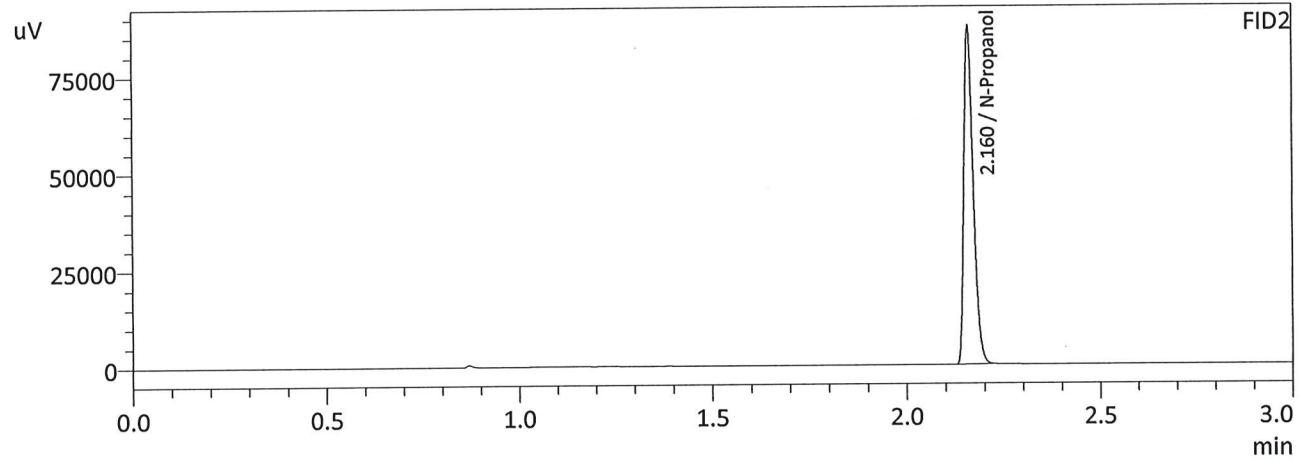
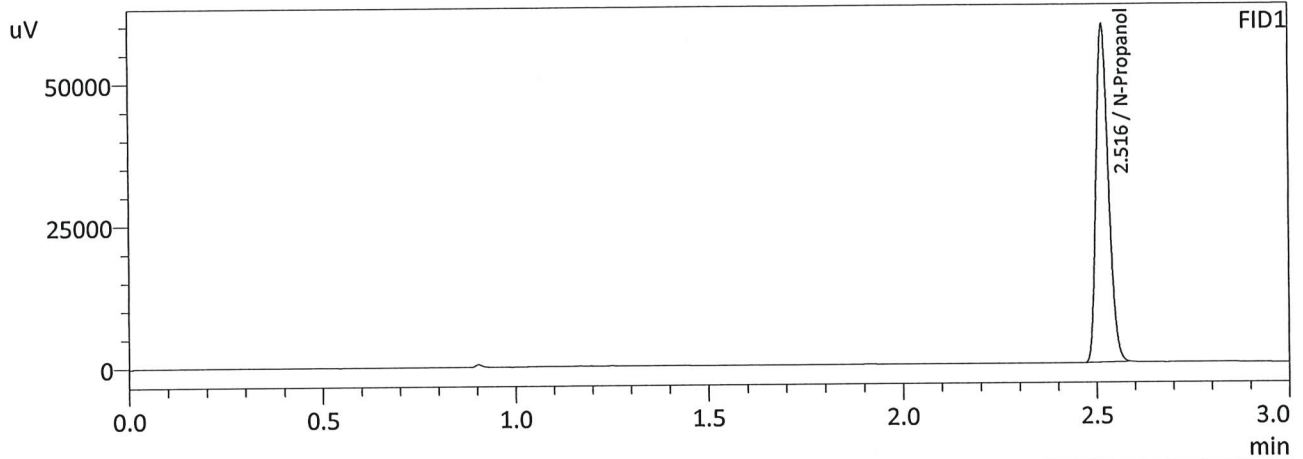
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.5004	221168	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	213144	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.5005	241150	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	232714	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

Handwritten signature

Sample Name : INT STD BLK
 Laboratory : Meridian
 Injection Date : 6/22/2023 1:22:49 PM
 Vial # : 6
 Method Filename : Default Project - ALCOHOL_230622.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	132630	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	145291	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

W

Meridian Blood Alcohol Analysis Batch Table

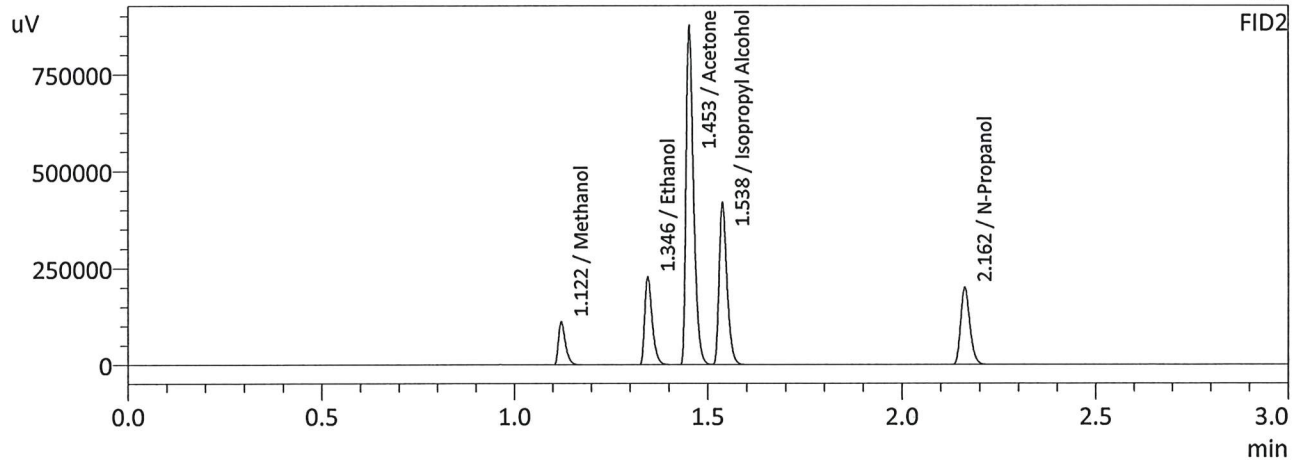
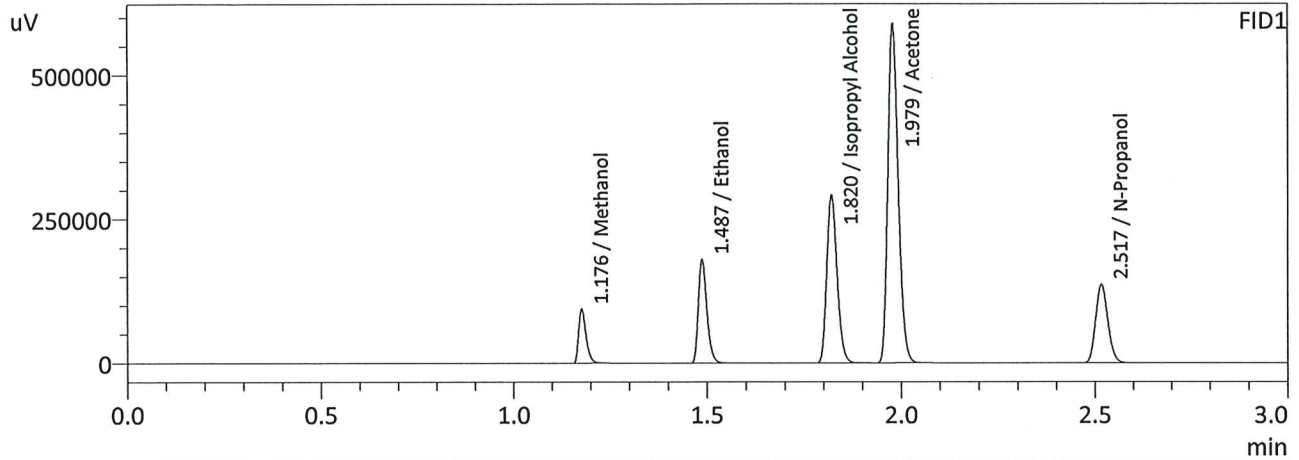
Shimadzu GC-2030 Serial #C12255750548
 Shimadzu HS-20 Serial #C12595800409
 Lab Solutions Database Software Ver. 6.111
 Copyright (C) 2008-2020 Shimadzu Corporation

Vial#	Sample Name	Sample Type	Level#	Method File
1	INT STD BLK 1	0:Unknown	0	ALCOHOL 230622.gcm
2	ED VOLATILES FN 0604	0:Unknown	1	ALCOHOL 230622.gcm
3	QC-1-1	0:Unknown	0	ALCOHOL 230622.gcm
4	QC-1-1-B	0:Unknown	0	ALCOHOL 230622.gcm
5	0.08 QA	0:Unknown	0	ALCOHOL 230622.gcm
6	0.08 QA-B	0:Unknown	0	ALCOHOL 230622.gcm
7	M2023-2474-1	0:Unknown	0	ALCOHOL 230622.gcm
8	M2023-2474-1-B	0:Unknown	0	ALCOHOL 230622.gcm
9	M2023-2500-1	0:Unknown	0	ALCOHOL 230622.gcm
10	M2023-2500-1-B	0:Unknown	0	ALCOHOL 230622.gcm
11	M2023-2518-1	0:Unknown	0	ALCOHOL 230622.gcm
12	M2023-2518-1-B	0:Unknown	0	ALCOHOL 230622.gcm
13	M2023-2522-1	0:Unknown	0	ALCOHOL 230622.gcm
14	M2023-2522-1-B	0:Unknown	0	ALCOHOL 230622.gcm
15	M2023-2526-1	0:Unknown	0	ALCOHOL 230622.gcm
16	M2023-2526-1-B	0:Unknown	0	ALCOHOL 230622.gcm
17	M2023-2537-1	0:Unknown	0	ALCOHOL 230622.gcm
18	M2023-2537-1-B	0:Unknown	0	ALCOHOL 230622.gcm
19	M2023-2550-1	0:Unknown	0	ALCOHOL 230622.gcm
20	M2023-2550-1-B	0:Unknown	0	ALCOHOL 230622.gcm
21	M2023-2551-1	0:Unknown	0	ALCOHOL 230622.gcm
22	M2023-2551-1-B	0:Unknown	0	ALCOHOL 230622.gcm
23	M2023-2552-1	0:Unknown	0	ALCOHOL 230622.gcm
24	M2023-2552-1-B	0:Unknown	0	ALCOHOL 230622.gcm
25	QC-2-1	0:Unknown	0	ALCOHOL 230622.gcm
26	QC-2-1-B	0:Unknown	0	ALCOHOL 230622.gcm
27	M2023-2553-1	0:Unknown	0	ALCOHOL 230622.gcm
28	M2023-2553-1-B	0:Unknown	0	ALCOHOL 230622.gcm
29	M2023-2554-1	0:Unknown	0	ALCOHOL 230622.gcm
30	M2023-2554-1-B	0:Unknown	0	ALCOHOL 230622.gcm
31	M2023-2567-1	0:Unknown	0	ALCOHOL 230622.gcm
32	M2023-2567-1-B	0:Unknown	0	ALCOHOL 230622.gcm
33	* M2023-2568-1	0:Unknown	0	ALCOHOL 230622.gcm
34	* M2023-2568-1-B	0:Unknown	0	ALCOHOL 230622.gcm
35	M2023-2569-1	0:Unknown	0	ALCOHOL 230622.gcm
36	M2023-2569-1-B	0:Unknown	0	ALCOHOL 230622.gcm
37	M2023-2650-1	0:Unknown	0	ALCOHOL 230622.gcm
38	M2023-2650-1-B	0:Unknown	0	ALCOHOL 230622.gcm
39	M2023-2651-1	0:Unknown	0	ALCOHOL 230622.gcm
40	M2023-2651-1-B	0:Unknown	0	ALCOHOL 230622.gcm
41	M2023-2661-2	0:Unknown	0	ALCOHOL 230622.gcm
42	M2023-2661-2-B	0:Unknown	0	ALCOHOL 230622.gcm
43	M2023-2662-1	0:Unknown	0	ALCOHOL 230622.gcm
44	M2023-2662-1-B	0:Unknown	0	ALCOHOL 230622.gcm
45	M2023-2663-1	0:Unknown	0	ALCOHOL 230622.gcm
46	M2023-2663-1-B	0:Unknown	0	ALCOHOL 230622.gcm
47	QC-1-2	0:Unknown	0	ALCOHOL 230622.gcm
48	QC-1-2-B	0:Unknown	0	ALCOHOL 230622.gcm
49	M2023-2701-1	0:Unknown	0	ALCOHOL 230622.gcm
50	M2023-2701-1-B	0:Unknown	0	ALCOHOL 230622.gcm
51	QC-2-2	0:Unknown	0	ALCOHOL 230622.gcm
52	QC-2-2-B	0:Unknown	0	ALCOHOL 230622.gcm
53	INT STD BLK	0:Unknown	0	ALCOHOL 230622.gcm

* Internal standard is
 not reported.
 Will be repeated.
 6/23/23 BS

W

Sample Name : MIXED VOLATILES FN 06041902
 Laboratory : Meridian
 Injection Date : 6/22/2023 2:44:53 PM
 Vial # : 2
 Method Filename : Default Project - ALCOHOL_230622.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	0.0000	127381	g/100cc
Ethanol	0.4395	275095	g/100cc
Isopropyl Alcohol	0.0000	535988	g/100cc
Acetone	0.0000	1089877	g/100cc
N-Propanol	0.0000	302039	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	0.0000	139070	g/100cc
Ethanol	0.4388	299020	g/100cc
Acetone	0.0000	1177701	g/100cc
Isopropyl Alcohol	0.0000	580908	g/100cc
N-Propanol	0.0000	329246	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

VOLATILES DETERMINATION CASEFILE WORKSHEET

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: 0.08 QA			Analysis Date(s): 6/22/2023 3:08:32 PM(-06:00)			
	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0784	0.0781	0.0003	0.0782	0.0002	0.0783
(g/100cc)	0.0786	0.0782	0.0004	0.0784		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

Refer To Instrument Method: ALCOHOL_230622.gcm

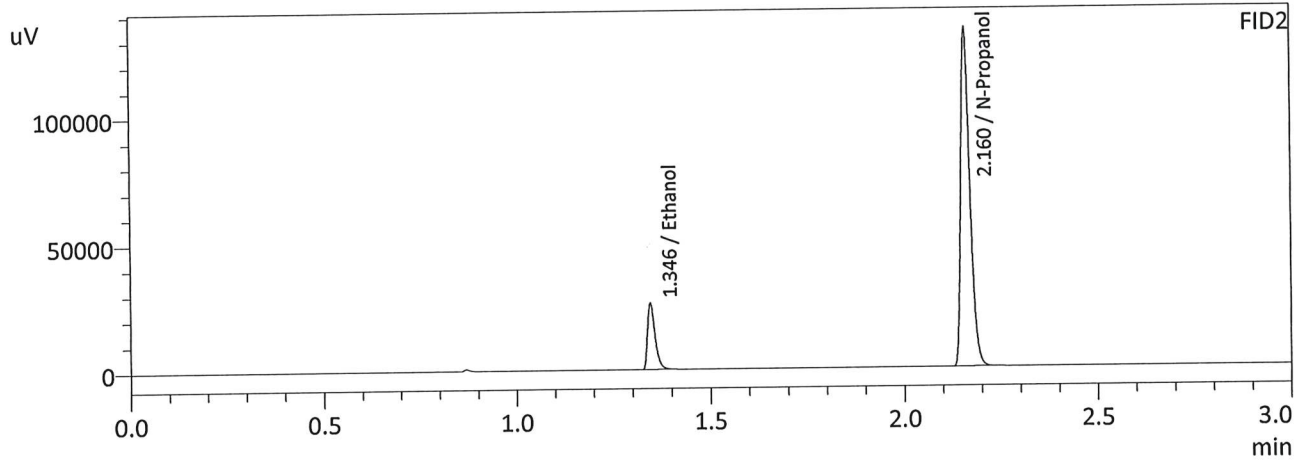
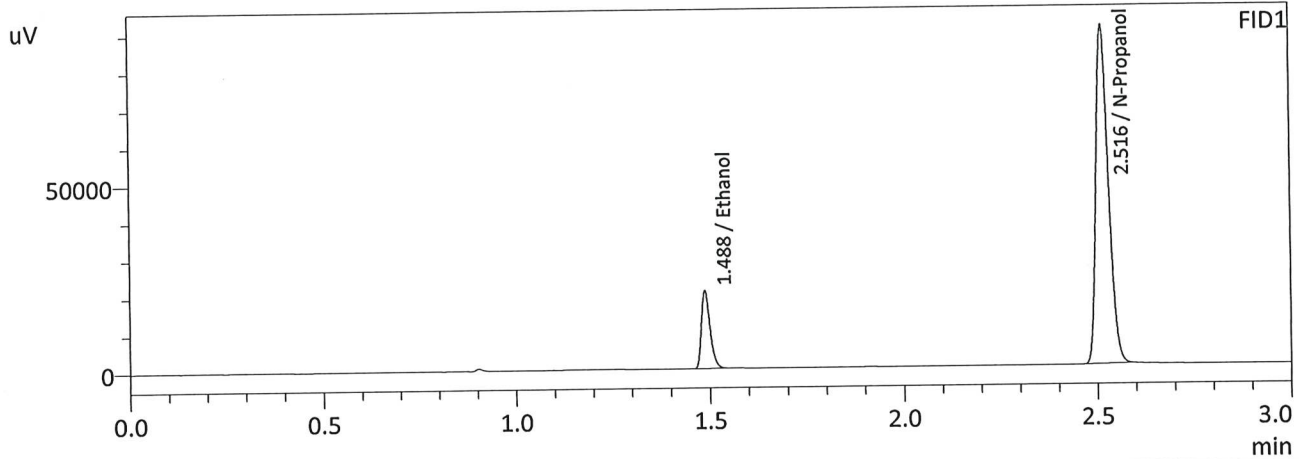
Reporting of Results	Uncertainty of Measurements (UM%): 5.00%		
Overall Mean (g/100cc)	Low	High	5 % of Mean
0.078	0.074	0.082	0.004

	Reported Results
	0.078

Calibration and control data are stored centrally.

W

Sample Name : 0.08 QA-B
 Laboratory : Meridian
 Injection Date : 6/22/2023 3:17:27 PM
 Vial # : 6
 Method Filename : Default Project - ALCOHOL_230622.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

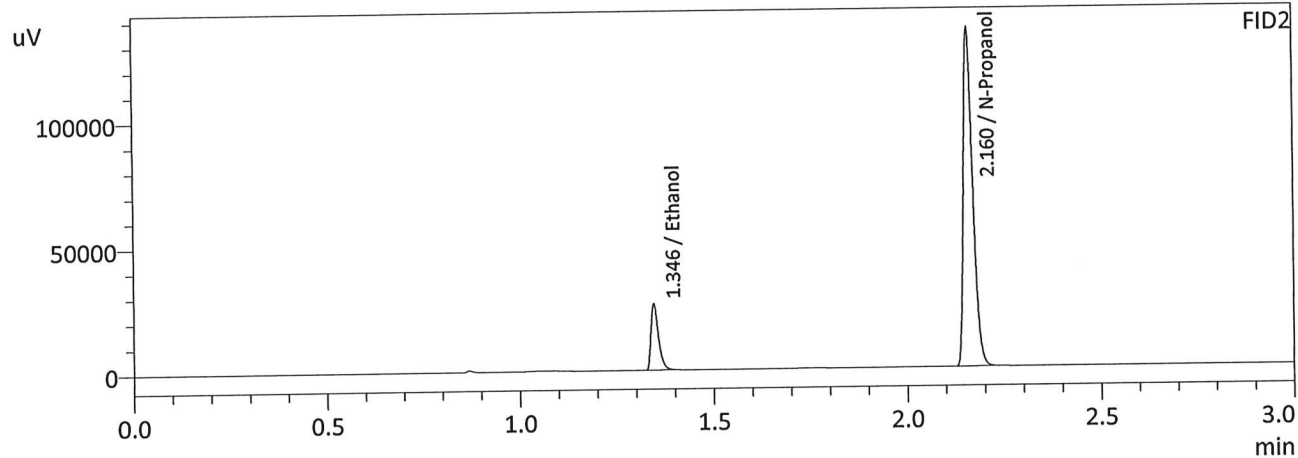
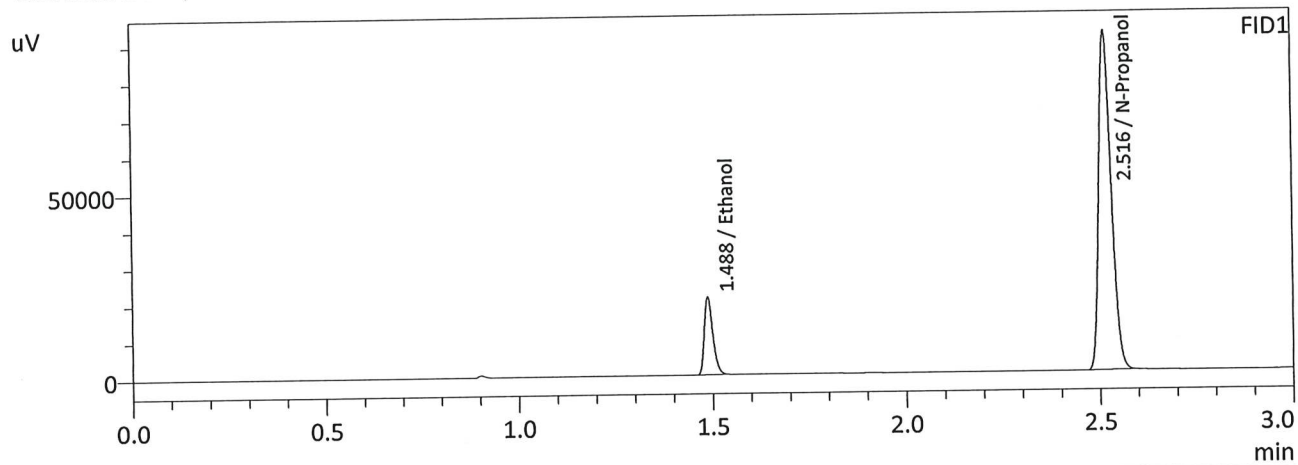
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0786	32145	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	201502	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0782	35022	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	220779	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : 0.08 QA
 Laboratory : Meridian
 Injection Date : 6/22/2023 3:08:32 PM
 Vial # : 5
 Method Filename : Default Project - ALCOHOL_230622.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0784	32437	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	203908	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0781	35382	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	223304	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

VOLATILES DETERMINATION CASEFILE WORKSHEET

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: QC-1-1		Analysis Date(s): 6/22/2023 2:52:32 PM(-06:00)				
	Column 1	Column 2	Column	Mean	Sample A-B	Over-all Mean
	FID A	FID B	Precision	Value	Difference	
Sample Results	0.0785	0.0782	0.0003	0.0783	0.0005	0.0781
(g/100cc)	0.0780	0.0777	0.0003	0.0778		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

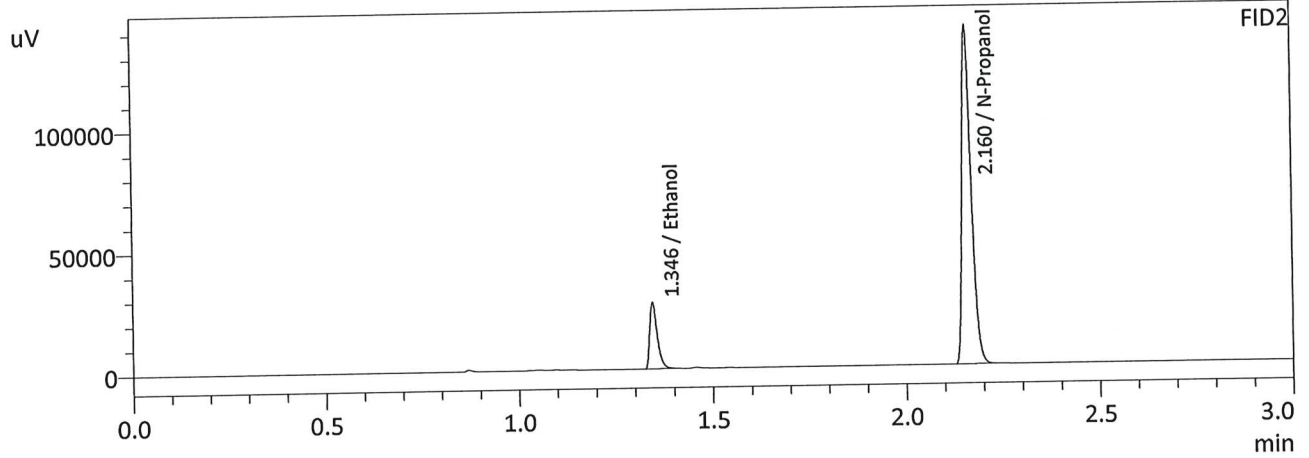
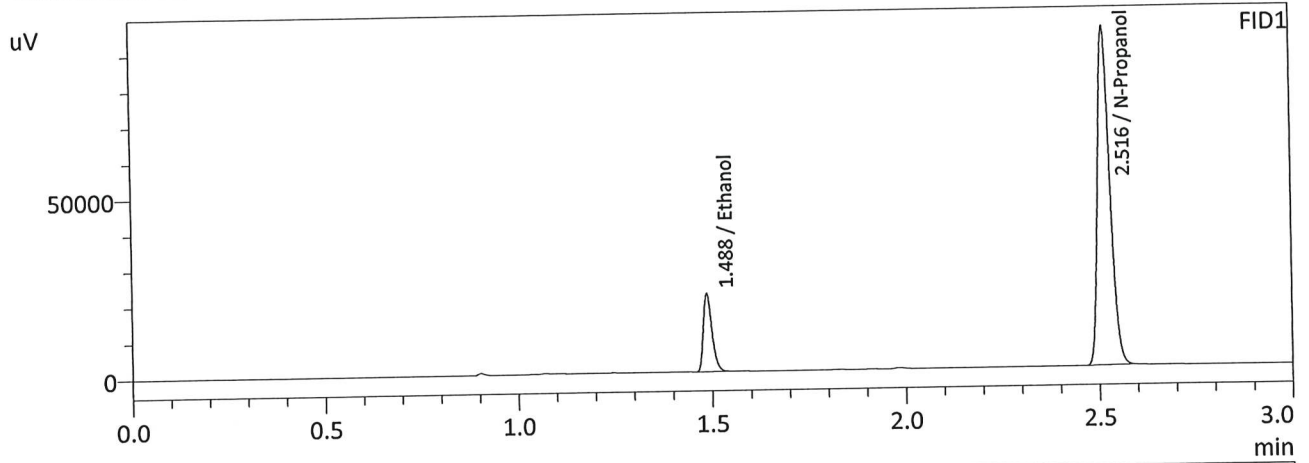
Refer To Instrument Method: ALCOHOL_230622.gcm

Reporting of Results	Uncertainty of Measurements (UM%): 5.00%		
Overall Mean (g/100cc)	Low	High	5 % of Mean
0.078	0.074	0.082	0.004

Reported Results	
0.078	

Calibration and control data are stored centrally.

Sample Name : QC-1-1
 Laboratory : Meridian
 Injection Date : 6/22/2023 2:52:32 PM
 Vial # : 3
 Method Filename : Default Project - ALCOHOL_230622.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

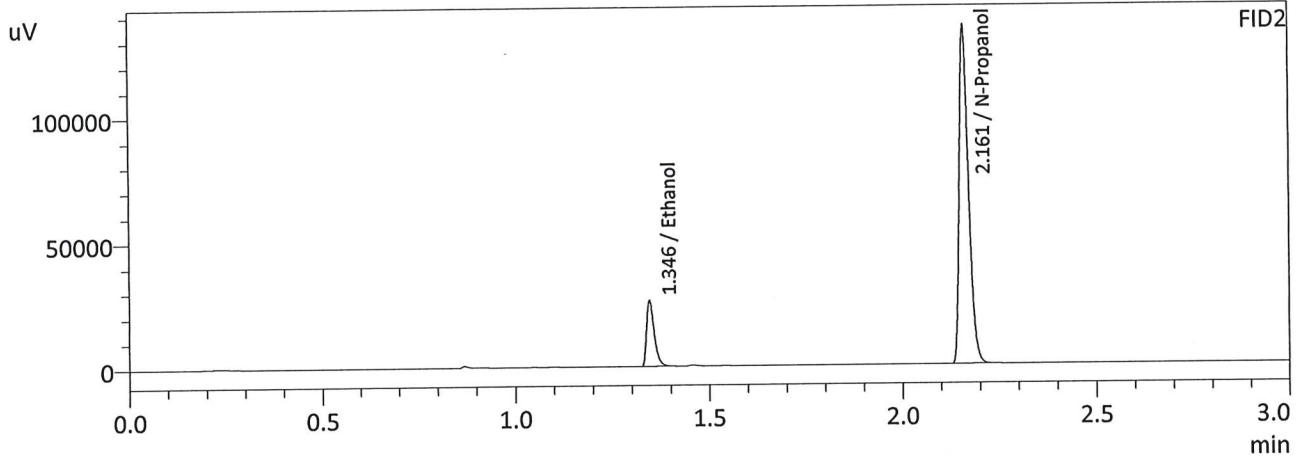
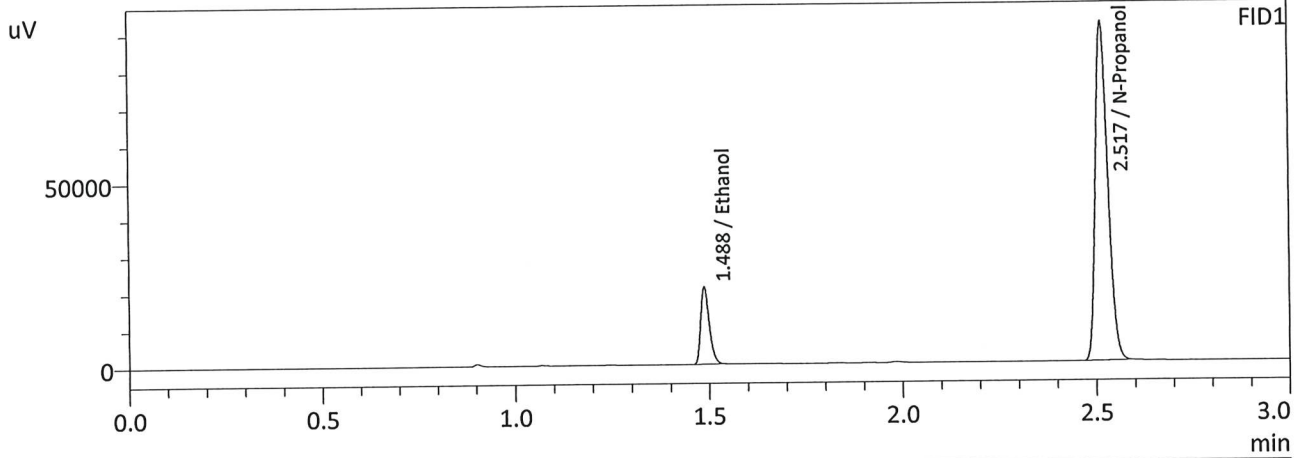
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0785	33496	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	210215	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0782	36531	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	230319	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : QC-1-1-B
 Laboratory : Meridian
 Injection Date : 6/22/2023 3:00:56 PM
 Vial # : 4
 Method Filename : Default Project - ALCOHOL_230622.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0780	32374	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	204498	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0777	35287	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	223928	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

VOLATILES DETERMINATION CASEFILE WORKSHEET

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: QC-1-2		Analysis Date(s): 6/22/2023 8:46:30 PM(-06:00)				
	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0803	0.0800	0.0003	0.0801	0.0004	0.0803
(g/100cc)	0.0807	0.0804	0.0003	0.0805		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

Refer To Instrument Method: ALCOHOL_230622.gcm

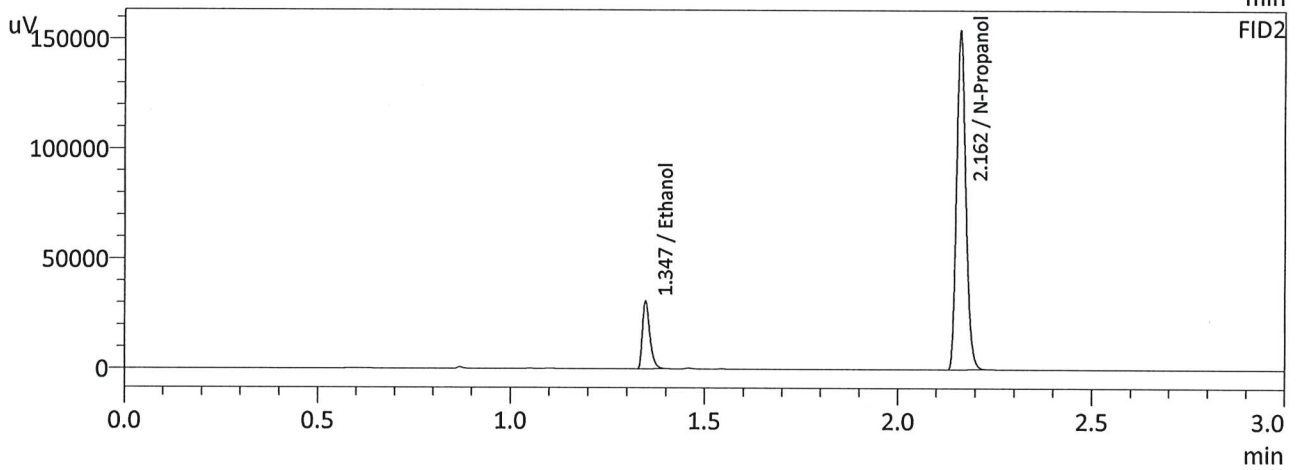
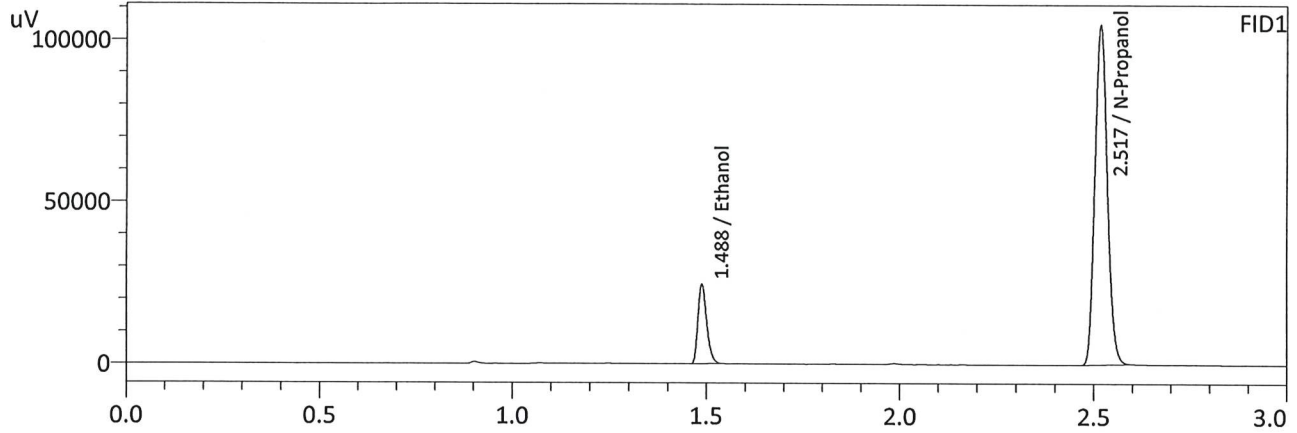
Reporting of Results	Uncertainty of Measurements (UM%): 5.00%		
Overall Mean (g/100cc)	Low	High	5 % of Mean
0.080	0.076	0.084	0.004

Reported Results	
0.080	

Calibration and control data are stored centrally.

W

Sample Name : QC-1-2
 Laboratory : Meridian
 Injection Date : 6/22/2023 8:46:30 PM
 Vial # : 47
 Method Filename : Default Project - ALCOHOL_230622.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

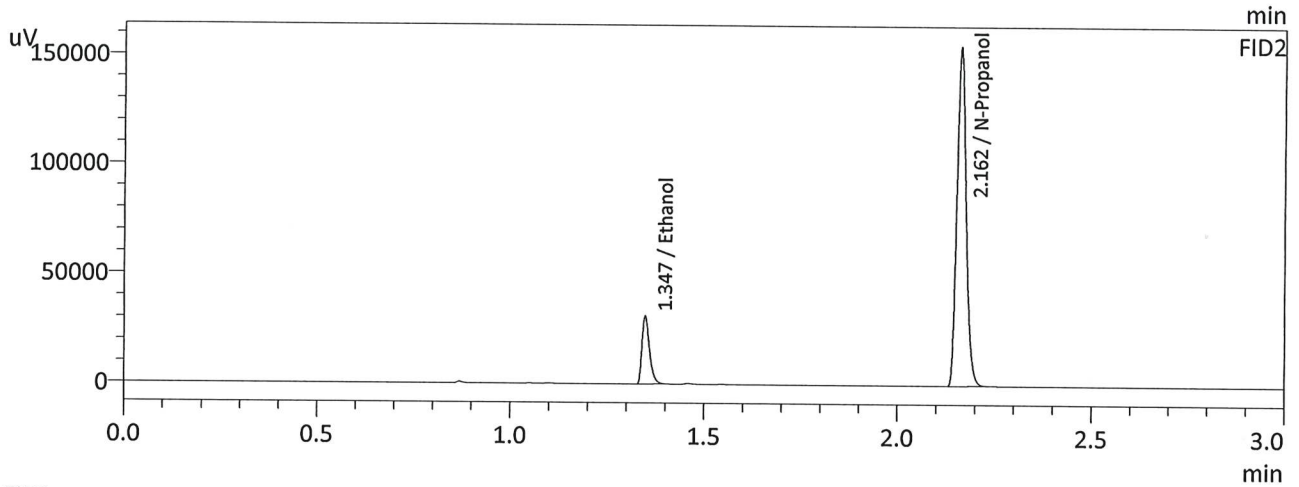
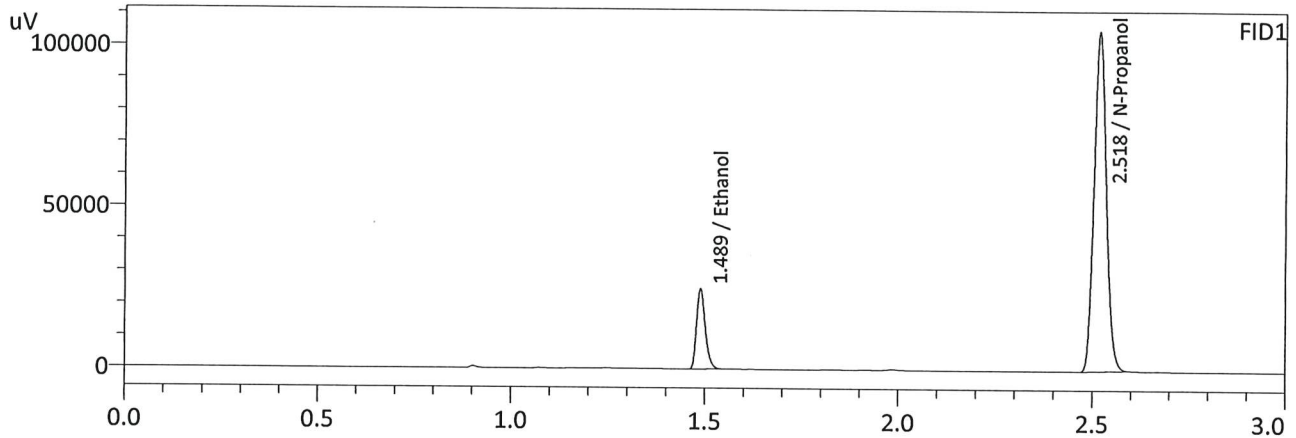
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0803	38061	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	233262	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0800	41508	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	255684	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : QC-1-2-B
 Laboratory : Meridian
 Injection Date : 6/22/2023 8:56:15 PM
 Vial # : 48
 Method Filename : Default Project - ALCOHOL_230622.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0807	38337	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	233851	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0804	41862	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	256483	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

VOLATILES DETERMINATION CASEFILE WORKSHEET

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: QC-2-1		Analysis Date(s): 6/22/2023 5:49:43 PM(-06:00)				
	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.2057	0.2053	0.0004	0.2055	0.0070	0.2090
(g/100cc)	0.2125	0.2125	0.0000	0.2125		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

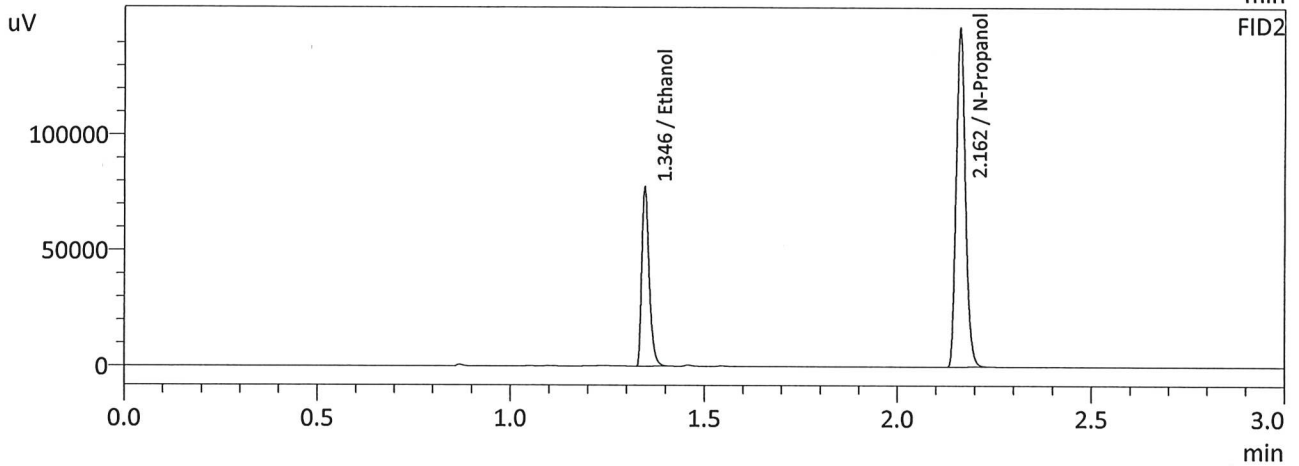
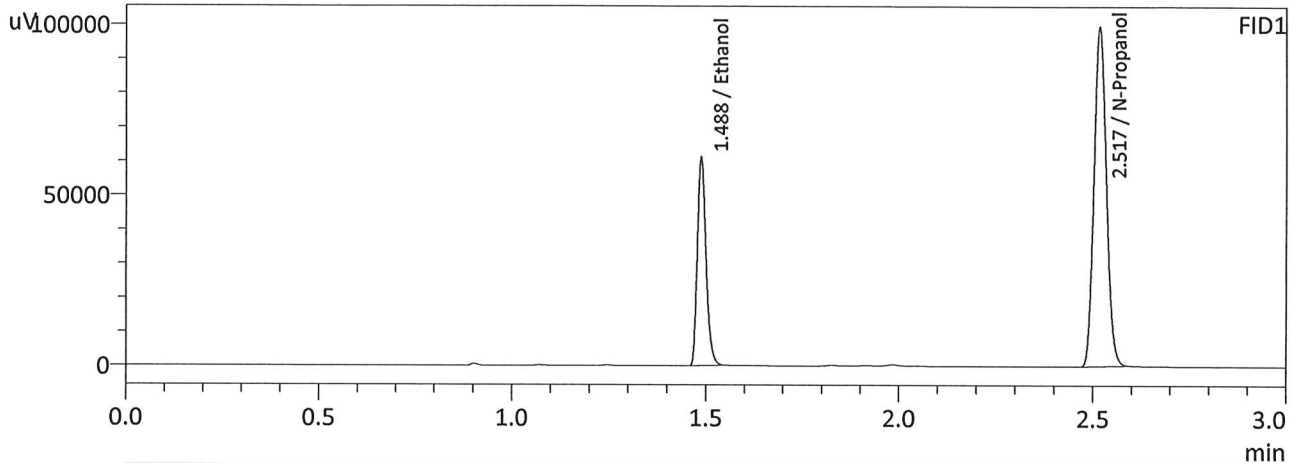
Refer To Instrument Method: ALCOHOL_230622.gcm

Reporting of Results	Uncertainty of Measurements (UM%): 5.00%		
Overall Mean (g/100cc)	Low	High	5 % of Mean
0.209	0.198	0.220	0.011

Reported Results	
0.209	

Calibration and control data are stored centrally.

Sample Name : QC-2-1
 Laboratory : Meridian
 Injection Date : 6/22/2023 5:49:43 PM
 Vial # : 25
 Method Filename : Default Project - ALCOHOL_230622.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

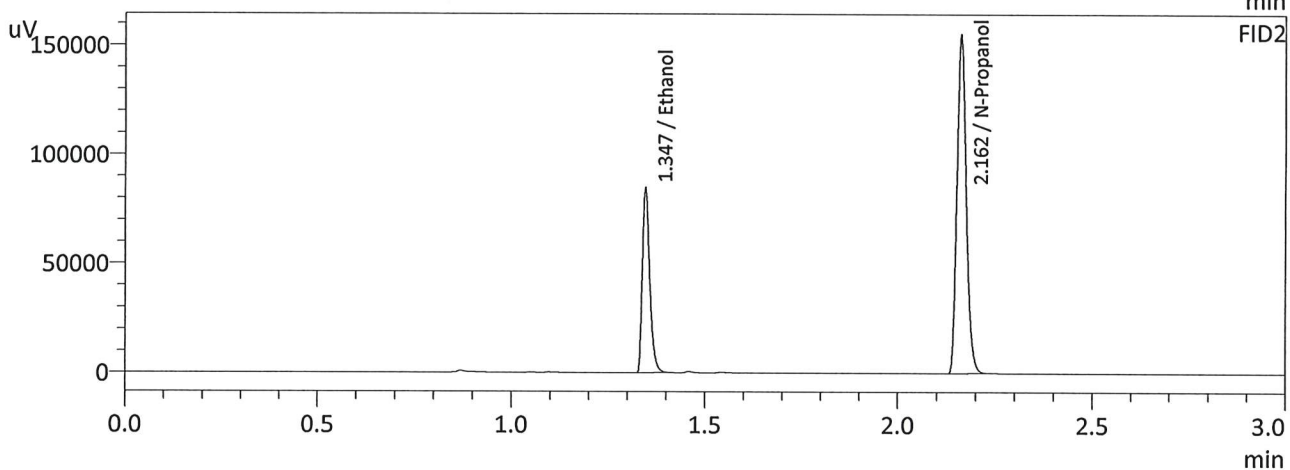
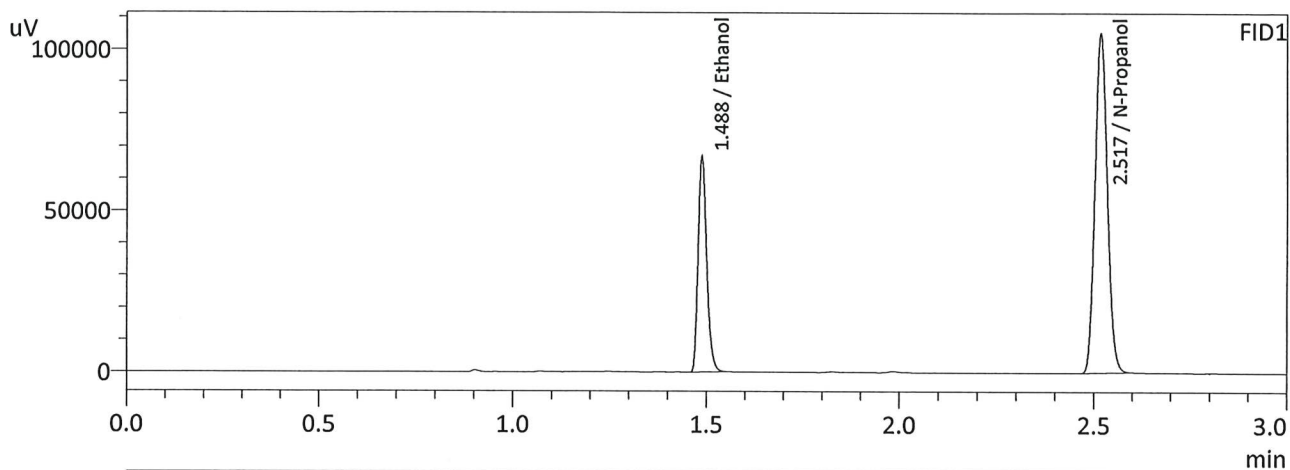
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2057	94122	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	221955	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2053	102759	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	243074	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : QC-2-1-B
 Laboratory : Meridian
 Injection Date : 6/22/2023 5:57:30 PM
 Vial # : 26
 Method Filename : Default Project - ALCOHOL_230622.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2125	102825	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	234558	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2125	112348	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	256690	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

VOLATILES DETERMINATION CASEFILE WORKSHEET

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: QC-2-2		Analysis Date(s): 6/22/2023 9:20:04 PM(-06:00)				
	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.2096	0.2093	0.0003	0.2094	0.0014	0.2101
(g/100cc)	0.2111	0.2106	0.0005	0.2108		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

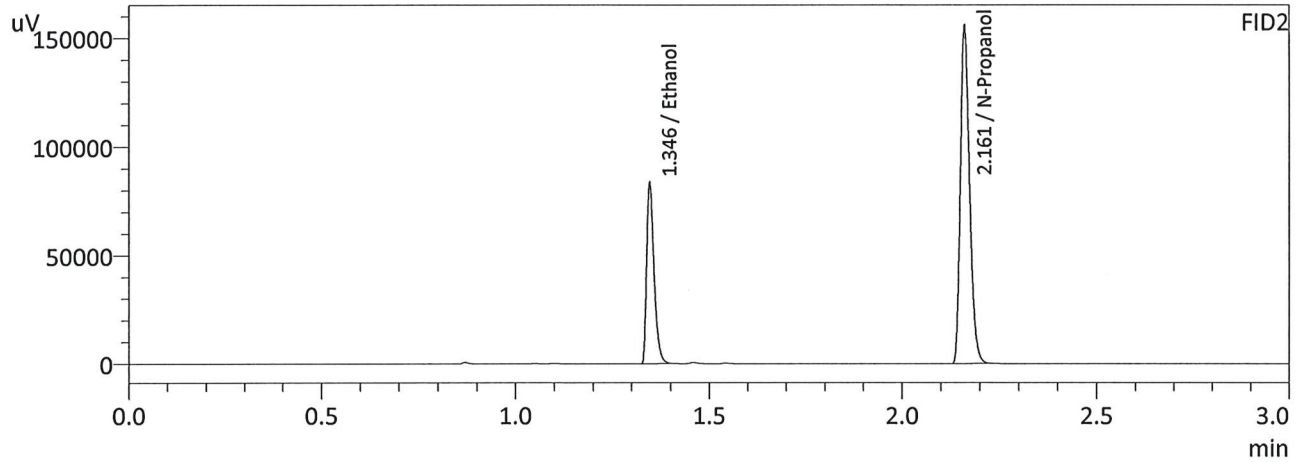
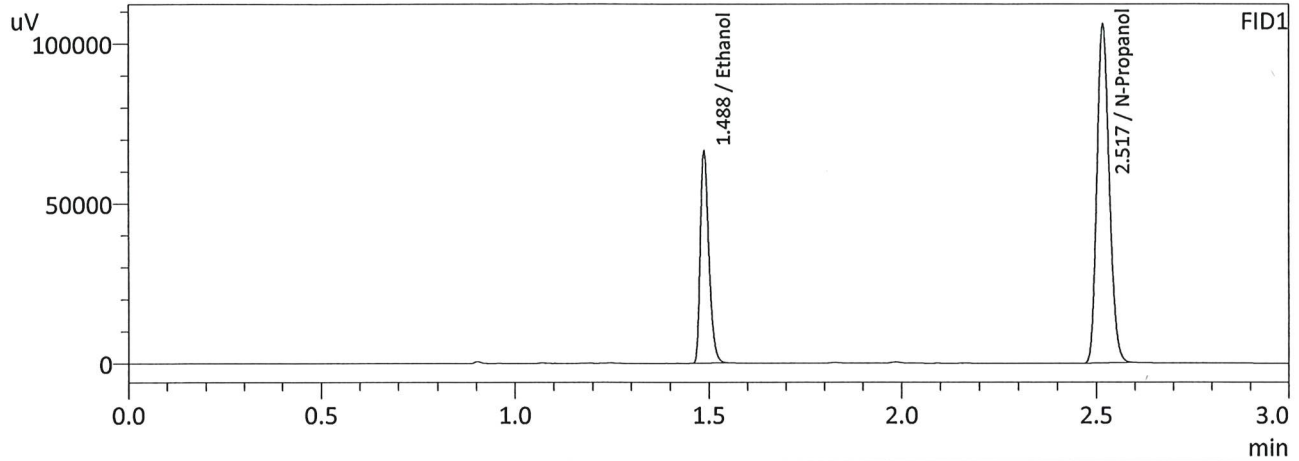
Refer To Instrument Method: ALCOHOL_230622.gcm

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

Reported Results	
0.210	

Calibration and control data are stored centrally.

Sample Name : QC-2-2
 Laboratory : Meridian
 Injection Date : 6/22/2023 9:20:04 PM
 Vial # : 51
 Method Filename : Default Project - ALCOHOL_230622.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

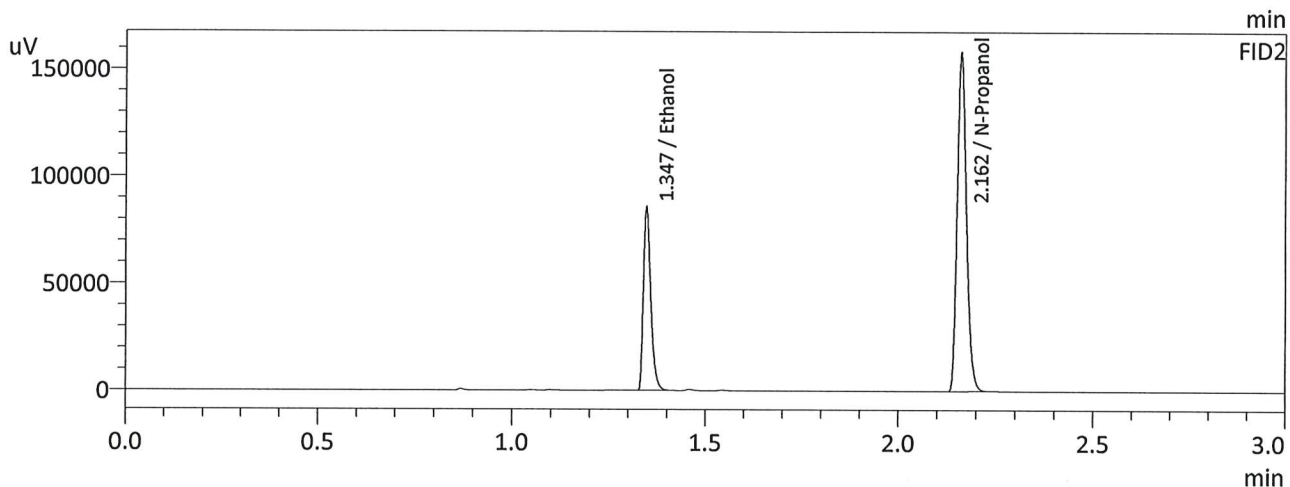
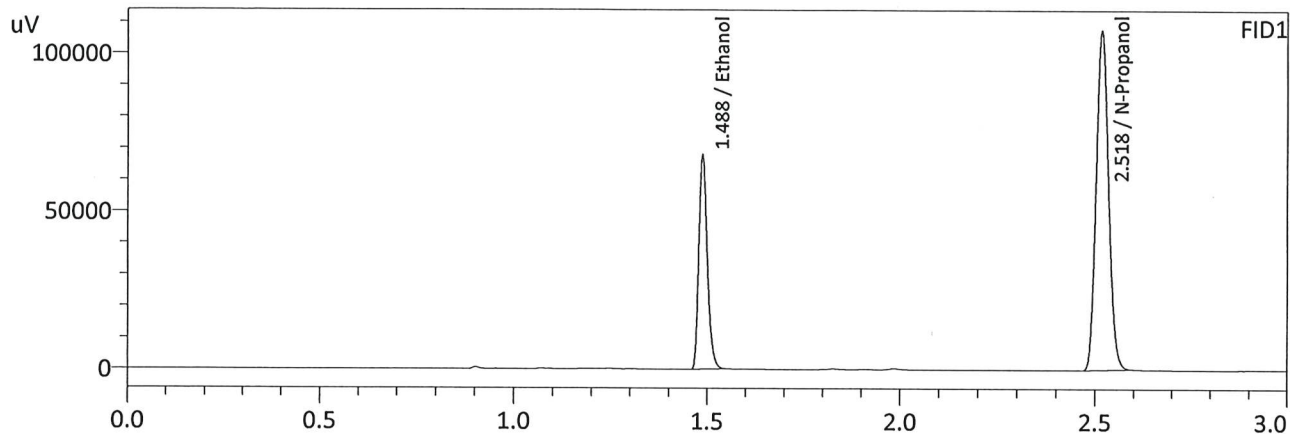
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2096	101866	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	235701	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2093	111261	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	258042	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : QC-2-2-B
 Laboratory : Meridian
 Injection Date : 6/22/2023 9:27:27 PM
 Vial # : 52
 Method Filename : Default Project - ALCOHOL_230622.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

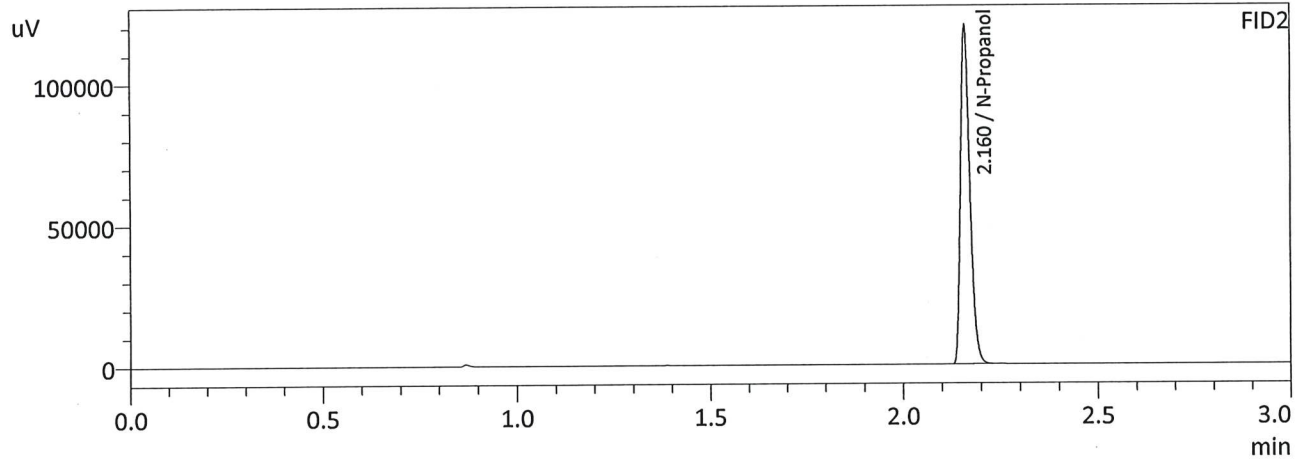
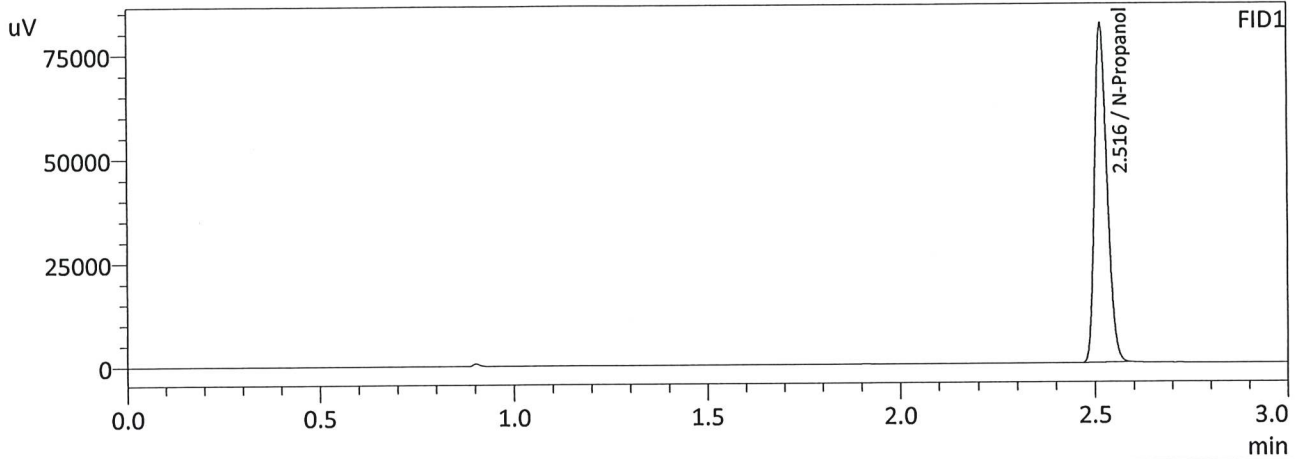
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2111	104339	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	239670	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2106	113825	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	262417	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : INT STD BLK 1
 Laboratory : Meridian
 Injection Date : 6/22/2023 2:37:33 PM
 Vial # : 1
 Method Filename : Default Project - ALCOHOL_230622.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

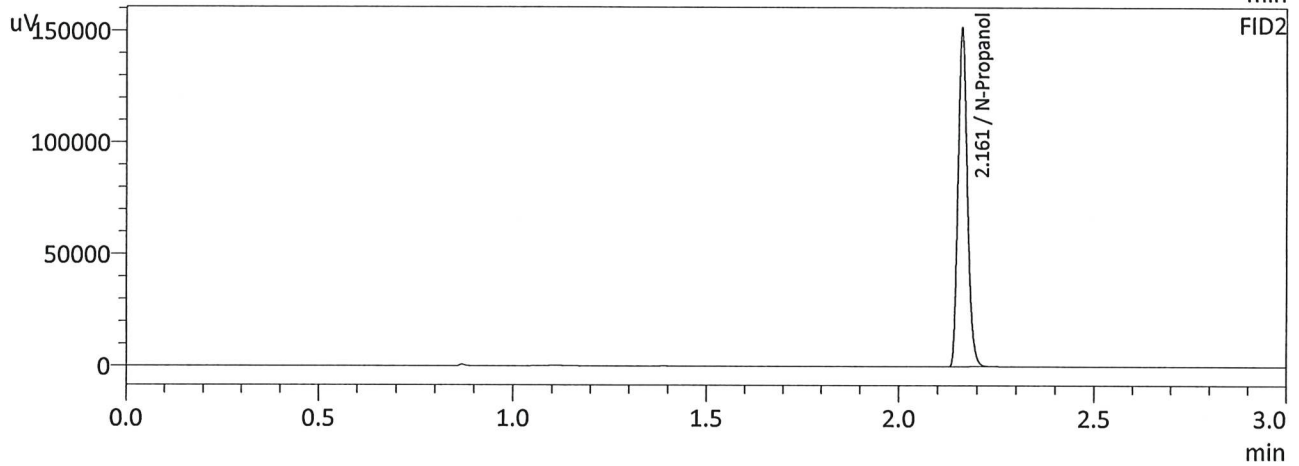
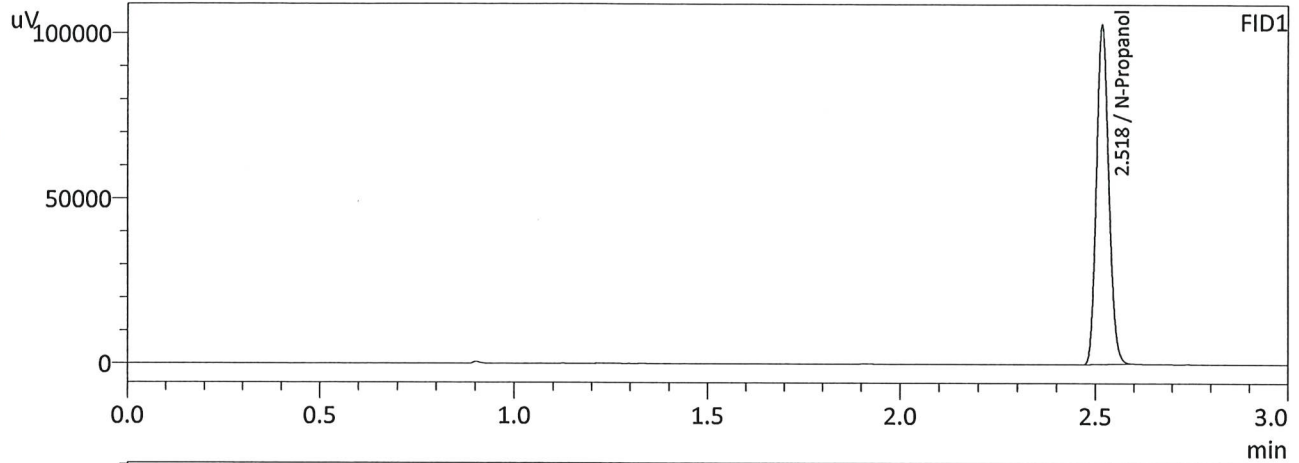
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	181557	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	199027	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : INT STD BLK
 Laboratory : Meridian
 Injection Date : 6/22/2023 9:35:00 PM
 Vial # : 53
 Method Filename : Default Project - ALCOHOL_230622.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	228692	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	250955	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc