

REVIEWED

By Melissa (Nikka) Bradley at 1:47 pm, Mar 21, 2023

MB

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): 03/17/23

Calibration Date: 03/17/23

Worklist #: 6283

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Feb-25	2101199	0.0808	0.0727-0.0889	0.0789 g/100cc 0.0815 g/100cc g/100cc
Level 2	Jul-23	1907007	0.2170	0.1953-0.2387	0.2067 g/100cc g/100cc g/100cc
Multi-Component mixture:			Exp:	Lot #	
Curve Fit:			Column 1	Column 2	0.99904
			0.99904	0.99904	0.99904

Ethanol Calibration Reference Material

Calibrator level	Target Value	Acceptable Range	Column 1	Column 2	Precision	Mean
50	0.050	0.045 - 0.055	0.0534	0.0533	0.0001	0.0533
100	0.100	0.090 - 0.110	0.1031	0.1033	0.0002	0.1032
200	0.200	0.180 - 0.220	0.1955	0.1952	0.0003	0.1953
300	0.300	0.270 - 0.330	0.2926	0.2928	0.0002	0.2927
400	0.400	0.360 - 0.440			0	#DIV/0!
500	0.500	0.450 - 0.550	0.5052	0.5051	1E-04	0.5051

Aqueous Controls

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

Internal Standard Monitoring Worksheet

Worklist #: 6283 Run Date(s): 03/17/23







Internal Standard Solution: Prep Date: 2/24/2023 Exp Date: 8/24/2023

Sample Name	Column 1 Value	Column 2 Value
0.080	190055	206037
0.080	192032	208225
QC1	185388	200648
QC1	186707	202298
QC1	200714	217877
QC1	216500	234999
QC1		
QC1		
QC2	208479	225996
QC2	214095	232157
QC2		
QC2		
QC2		
QC2		

Average	(-20%)	(+20%)
Column 1 199246.3	159397.0	239095.5
Column 2 216029.6	172823.7	259235.6



Worklist: 6283

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
M2023-0999	1	BCK	Alcohol Analysis	
M2023-1024	1	BCK	Alcohol Analysis	
M2023-1042	1	BCK	Alcohol Analysis	
M2023-1092	1	BCK	Alcohol Analysis	
M2023-1103	1	BCK	Alcohol Analysis	
M2023-1104	1	BCK	Alcohol Analysis	
M2023-1118	3	BCK	Alcohol Analysis	
M2023-1119	1	BCK	Alcohol Analysis	
M2023-1148	1	BCK	Alcohol Analysis	
M2023-1149	1	BCK	Alcohol Analysis	
M2023-1150	1	BCK	Alcohol Analysis	
M2023-1152	1	BCK	Alcohol Analysis	
M2023-1153	1	BCK	Alcohol Analysis	
M2023-1154	1	BCK	Alcohol Analysis	
M2023-1164	1	BCK	Alcohol Analysis	
M2023-1181	1	BCK	Alcohol Analysis	
M2023-1185	1	BCK	Alcohol Analysis	
M2023-1186	1	BCK	Alcohol Analysis	
P2023-0243	1	BCK	Alcohol Analysis	



Meridian Blood Alcohol Analysis Batch Table

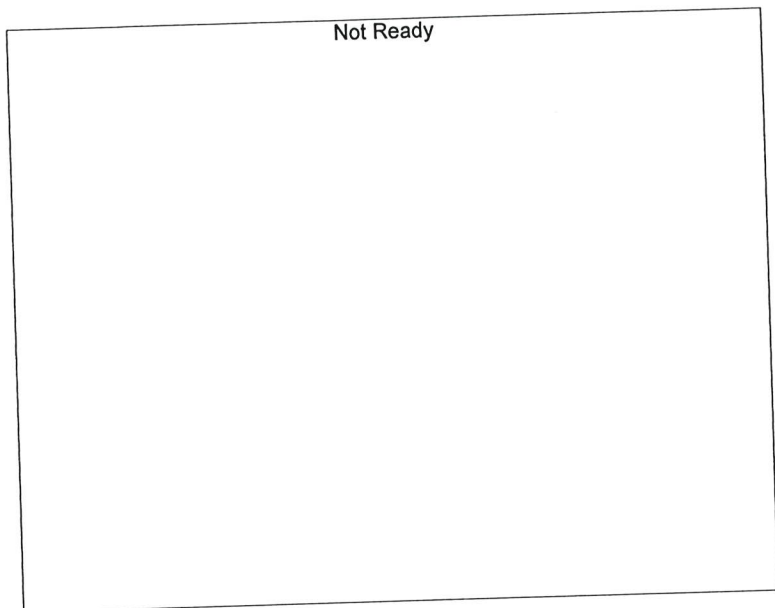
Shimadzu GC-2030 Serial #C12255750548
Shimadzu HS-20 Serial #C12595800409
Lab Solutions Software Ver. 5.99
Copyright (C) 2008-2020 Shimadzu Corporation

Vial#	Sample Name	Sample Type	Level#	Method File
1	0.050	1:Standard:(I)	1	ALCOHOL 230317.gcm
2	0.100	1:Standard	2	ALCOHOL 230317.gcm
3	0.200	1:Standard	3	ALCOHOL 230317.gcm
4	0.300	1:Standard	4	ALCOHOL 230317.gcm
5	0.500	1:Standard	5	ALCOHOL 230317.gcm
6	INT STD BLK	0:Unknown	0	ALCOHOL 230317.gcm

Calibration Table

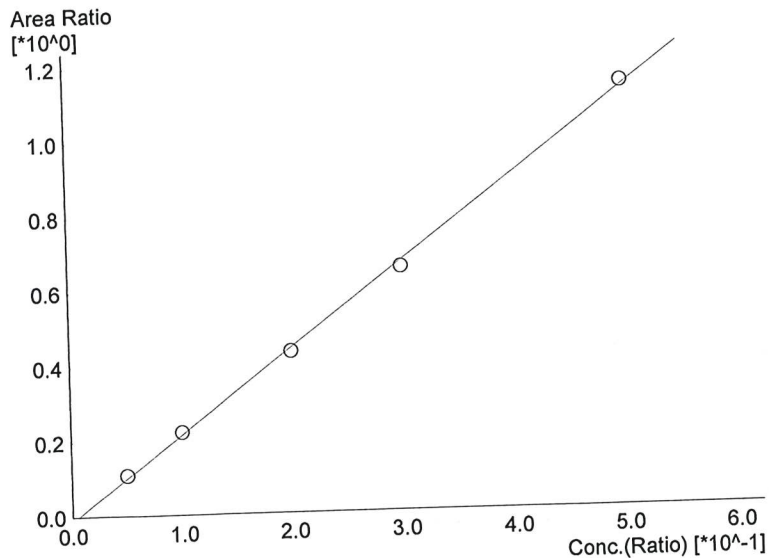
Laboratory : MERIDIAN
 Instrument Name : GC-BAC
 Instrument Serial # : C12595800409 / C12255750548

<<Data File>>
 Method File :Default Project - ALCOHOL_230317.gcm
 Batch File :Default Project - CALCURVE_230317.gcb
 Date Acquired :3/17/2023 11:22:08 AM
 Date Created :3/17/2023 11:17:46 AM
 Date Modified :3/17/2023 11:25:10 AM



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

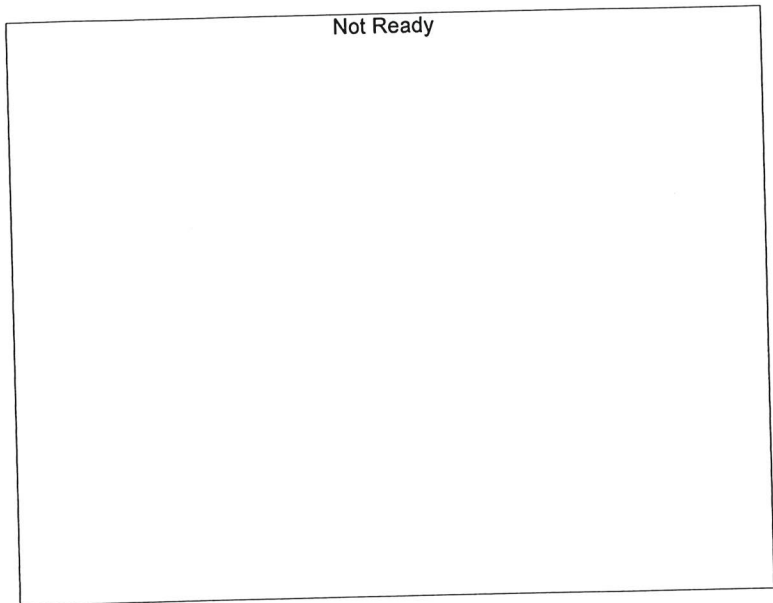
#	Conc.	Area	Std. Conc.
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Name : Ethanol
 Detector Name: FID1
 Function : $f(x)=2.27492*x-0.0125697$
 R² value= 0.9990425
 FitType: Linear
 ZeroThrough: Not Through

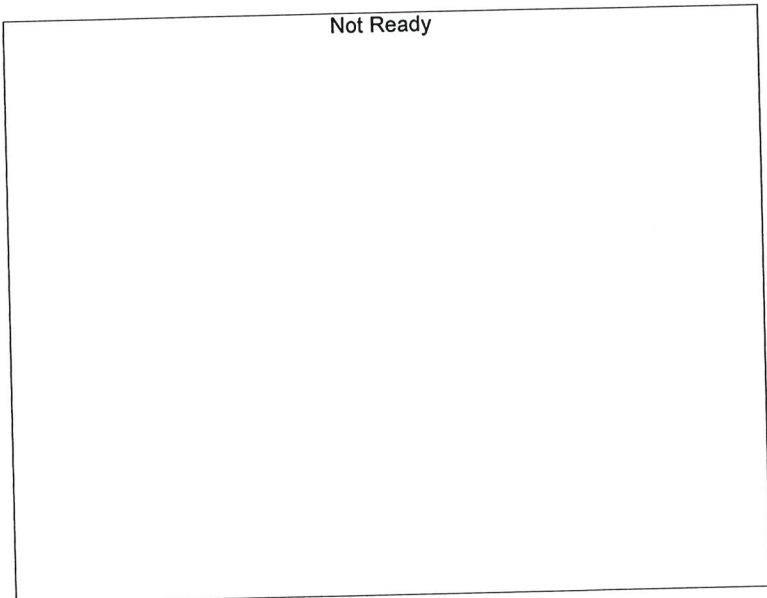
#	Conc.	Area	Std. Conc.
1	0.050	21321	0.0534
2	0.100	42844	0.1031
3	0.200	78303	0.1955
4	0.300	118605	0.2926
5	0.500	227698	0.5052

W



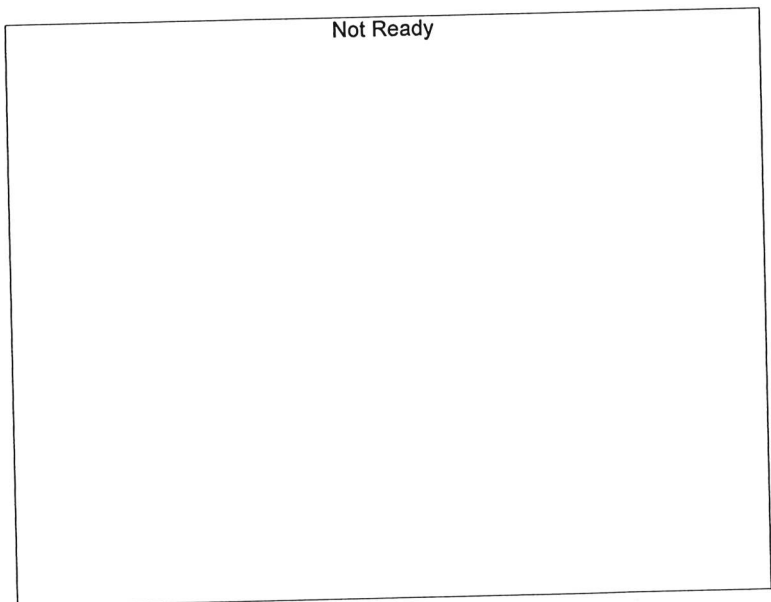
Name : Isopropyl Alcohol
Detector Name: FID1
Function : $f(x)=0*x+0$
R² value= 0
FitType: Linear
ZeroThrough: Not Through

#	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

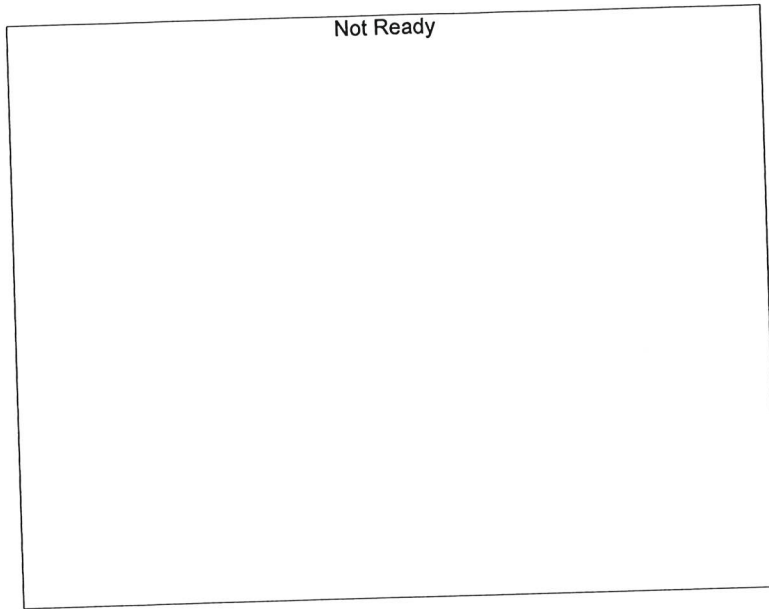
#	Conc.	Area	Std. Conc.
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Name : Fluor. Hydrocarbon(s)
Detector Name: FID1
Function : $f(x)=0*x+0$
R² value= 0
FitType: Linear
ZeroThrough: Not Through

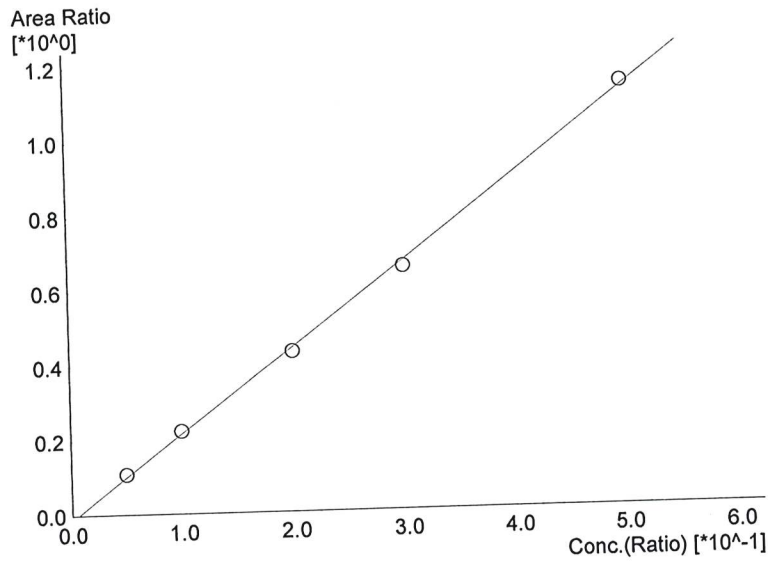
#	Conc.	Area	Std. Conc.
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W



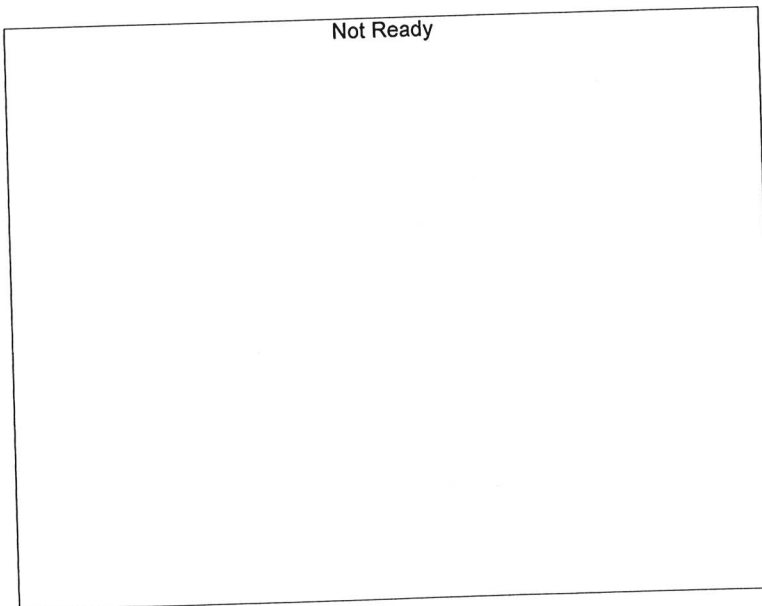
Name : Methanol
 Detector Name: FID2
 Function : $f(x)=0*x+0$
 R² value= 0
 FitType: Linear
 ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
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Name : Ethanol
 Detector Name: FID2
 Function : $f(x)=2.27479*x-0.0133478$
 R² value= 0.9990477
 FitType: Linear
 ZeroThrough: Not Through

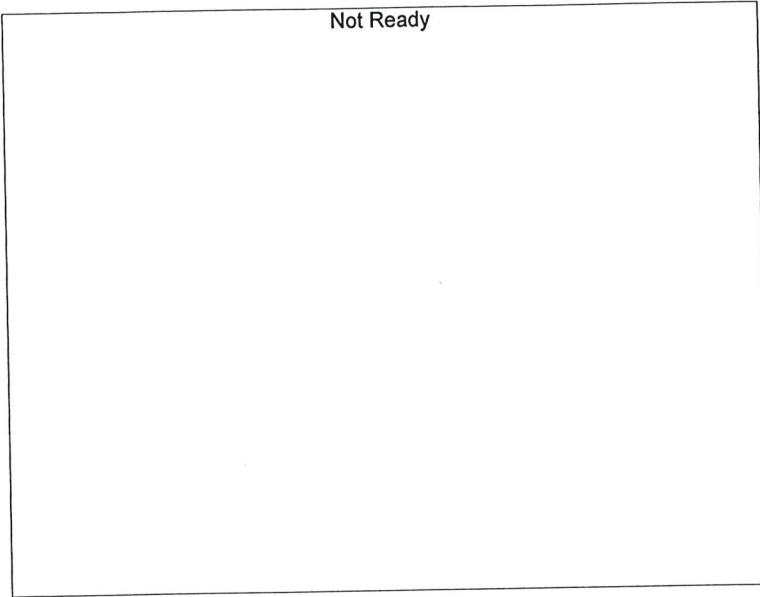
#	Conc.	Area	Std. Conc.
1	0.050	22885	0.0533
2	0.100	46319	0.1033
3	0.200	84411	0.1952
4	0.300	128203	0.2928
5	0.500	246334	0.5051



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

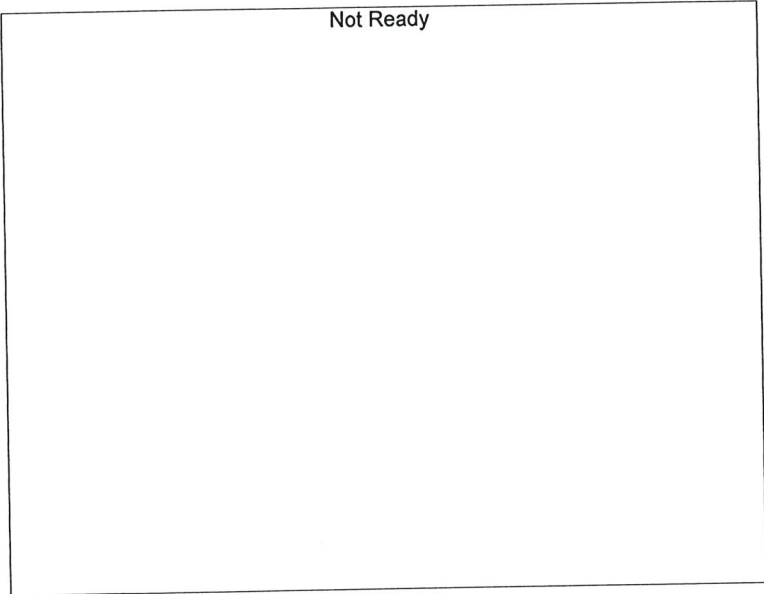
#	Conc.	Area	Std. Conc.
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W



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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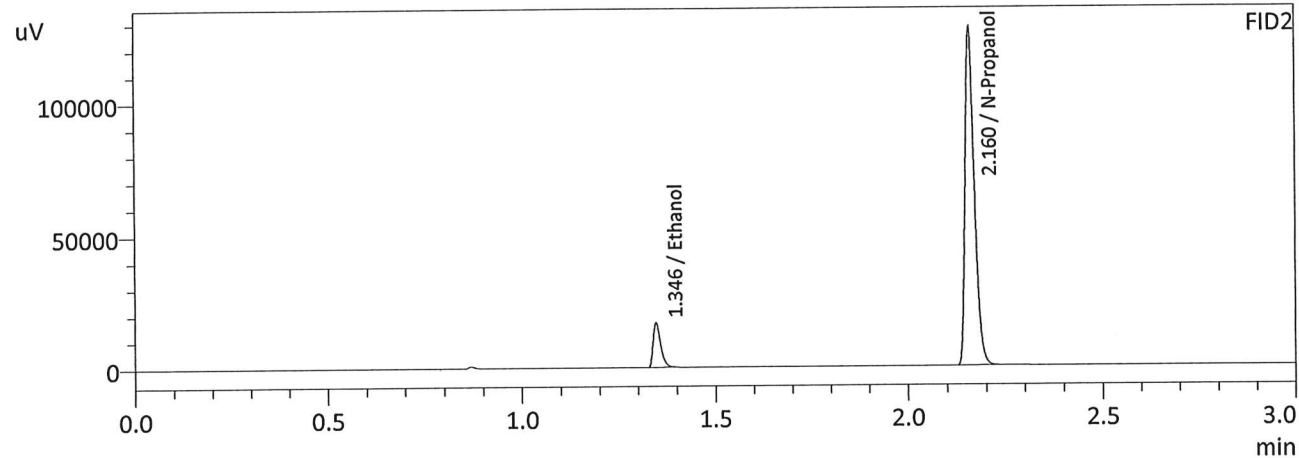
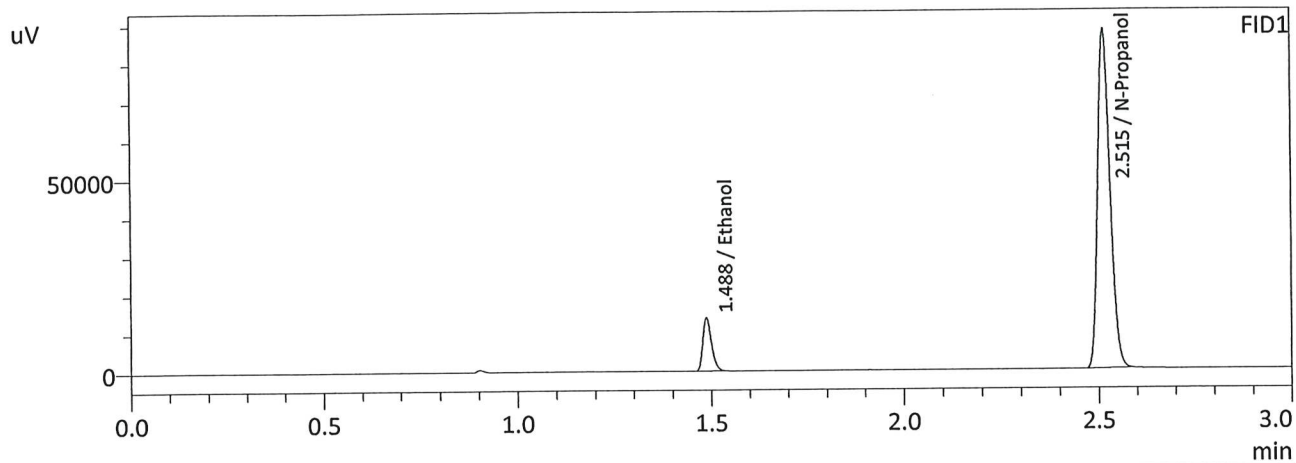


Name : Flour. Hydrocarbon(s)
Detector Name: FID2
Function : $f(x)=0*x+0$
R² value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
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W

Sample Name : 0.050
 Laboratory : Meridian
 Injection Date : 3/17/2023 10:50:58 AM
 Vial # : 1
 Method Filename : Default Project - ALCOHOL_230317.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

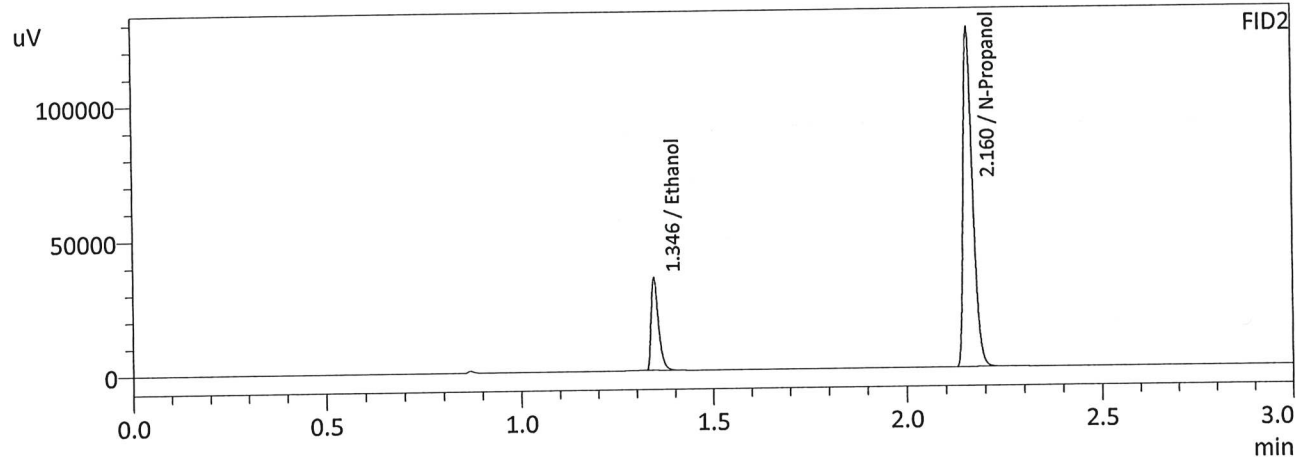
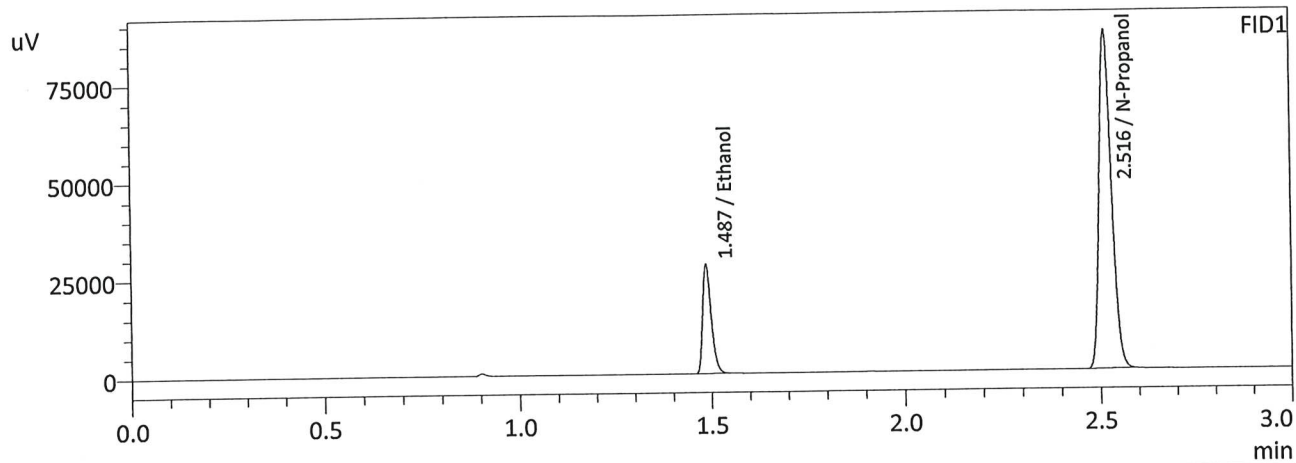
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0534	21321	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	195591	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0533	22885	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	211943	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : 0.100
 Laboratory : Meridian
 Injection Date : 3/17/2023 10:58:18 AM
 Vial # : 2
 Method Filename : Default Project - ALCOHOL_230317.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

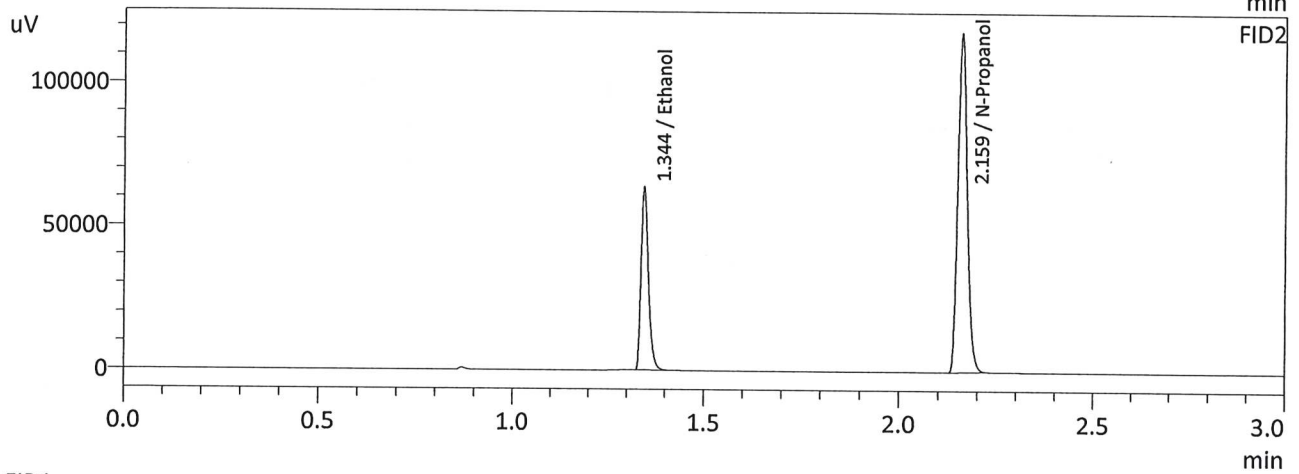
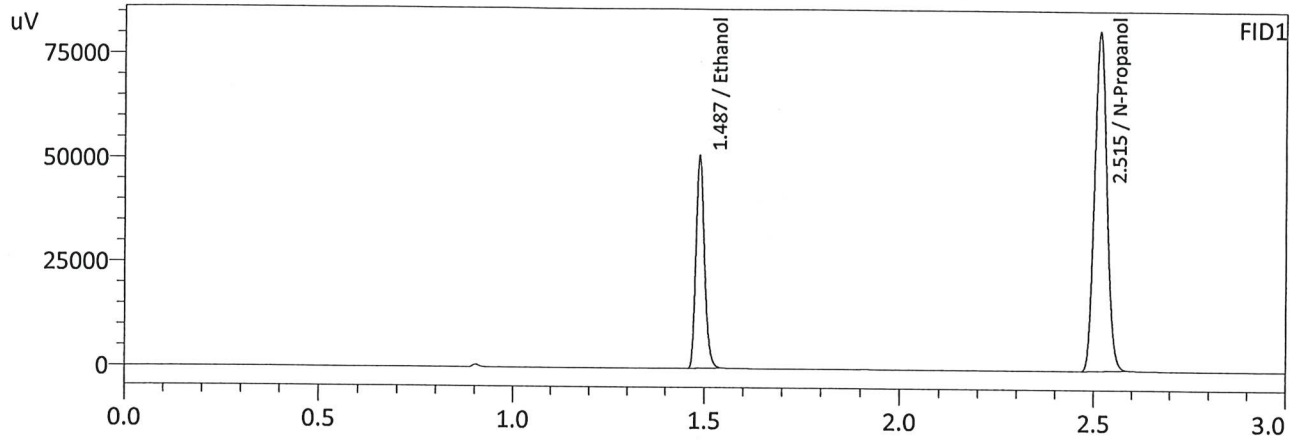
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1031	42844	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	192913	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1033	46319	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	208866	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : 0.200
 Laboratory : Meridian
 Injection Date : 3/17/2023 11:05:39 AM
 Vial # : 3
 Method Filename : Default Project - ALCOHOL_230317.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

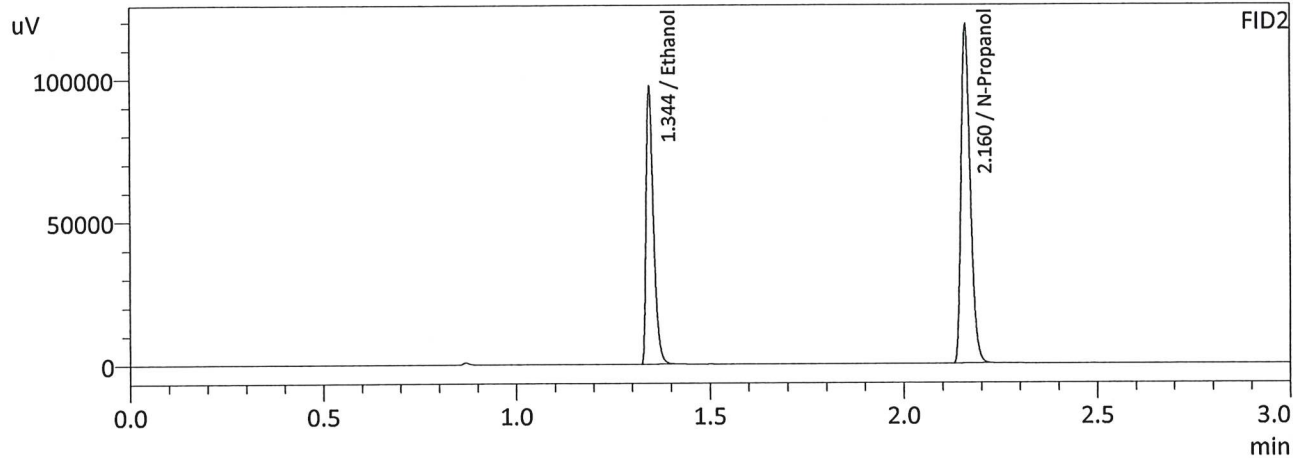
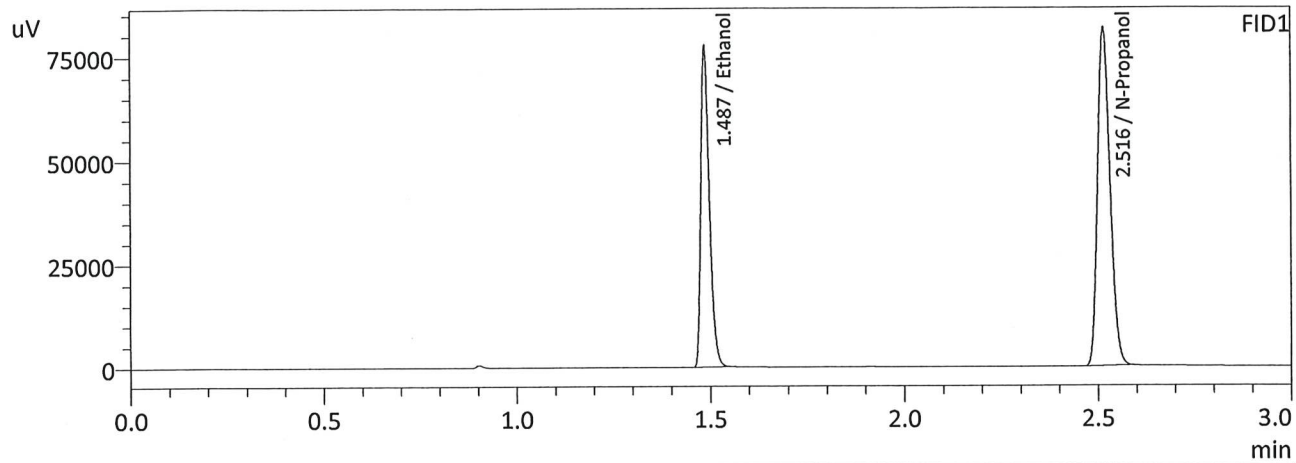
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1955	78303	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	181164	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1952	84411	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	195918	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : 0.300
 Laboratory : Meridian
 Injection Date : 3/17/2023 11:14:41 AM
 Vial # : 4
 Method Filename : Default Project - ALCOHOL_230317.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

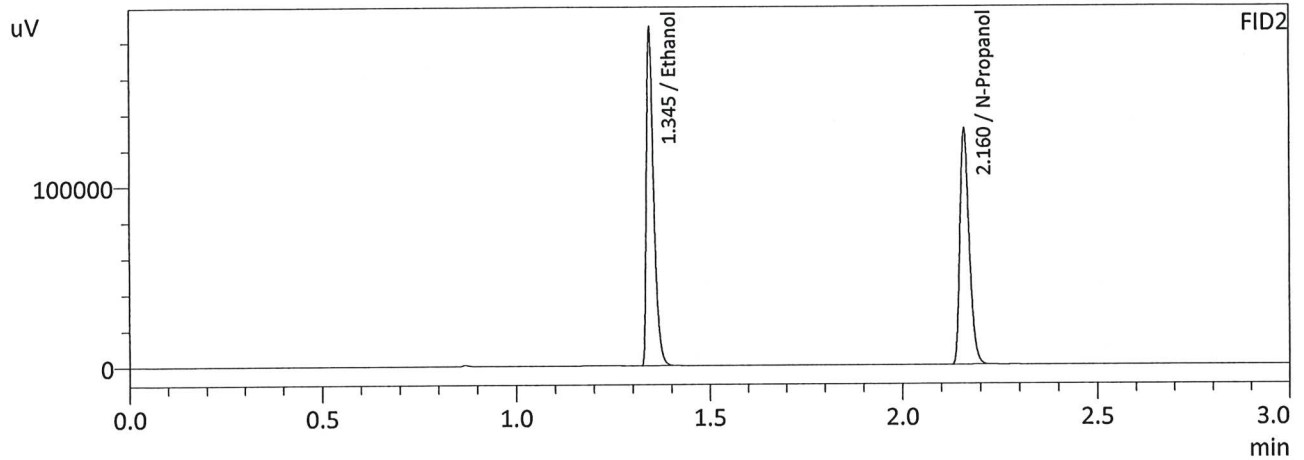
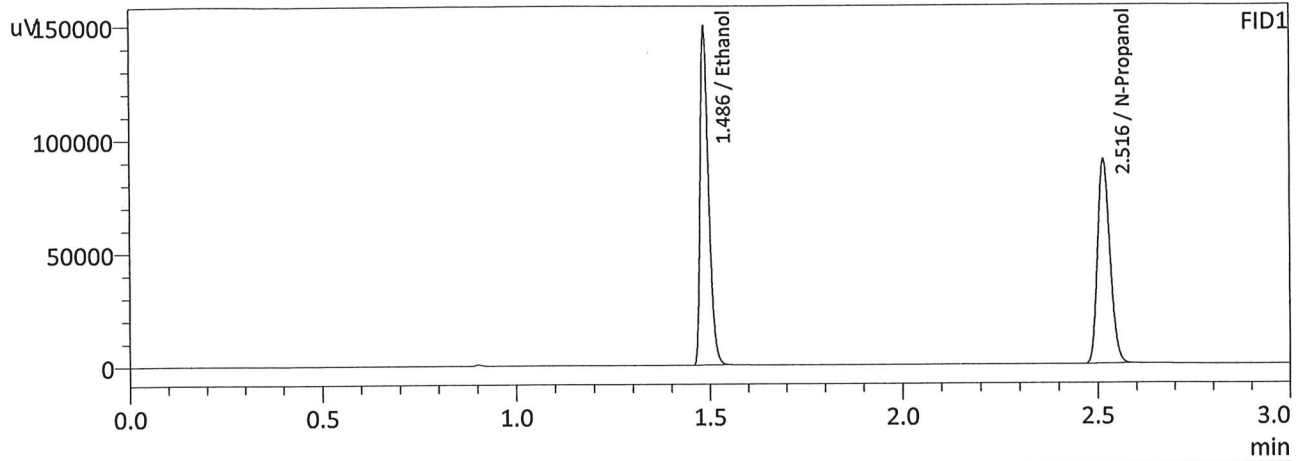
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2926	118605	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	181563	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2928	128203	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	196360	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : 0.500
 Laboratory : Meridian
 Injection Date : 3/17/2023 11:22:08 AM
 Vial # : 5
 Method Filename : Default Project - ALCOHOL_230317.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

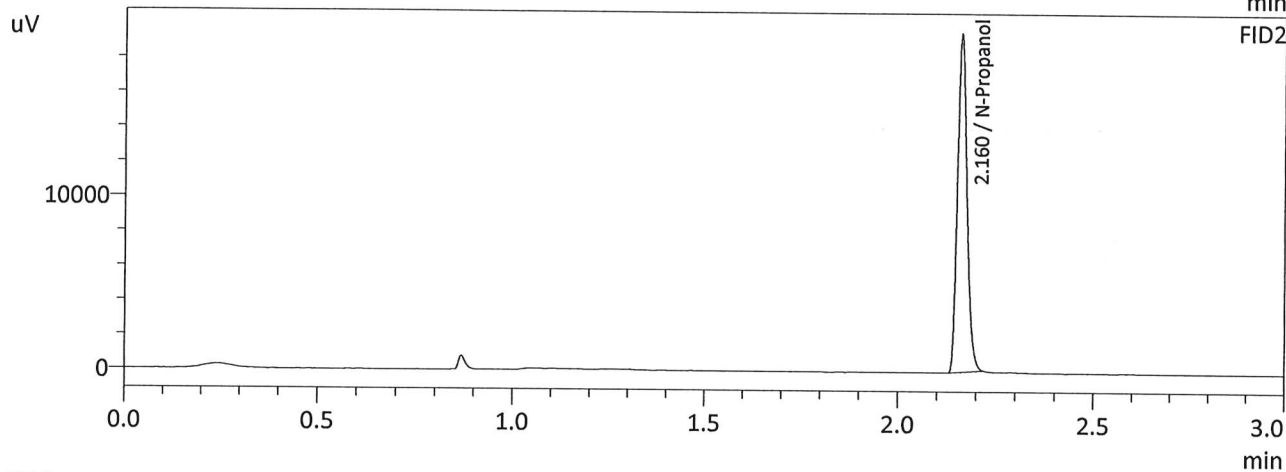
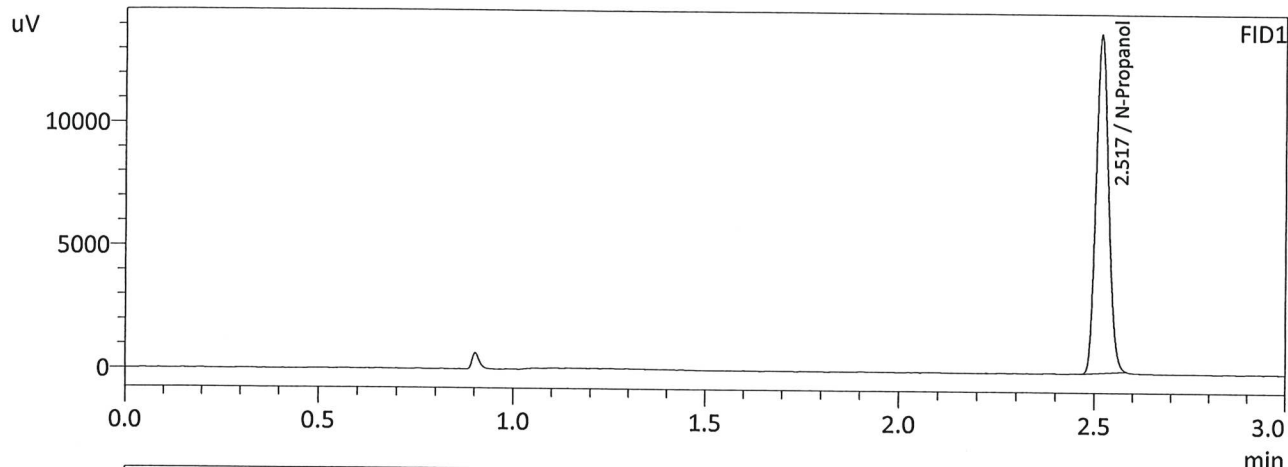
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.5052	227698	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	200306	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.5051	246334	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	216886	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : INT STD BLK
 Laboratory : Meridian
 Injection Date : 3/17/2023 11:30:33 AM
 Vial # : 6
 Method Filename : Default Project - ALCOHOL_230317.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	30890	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	32941	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

W

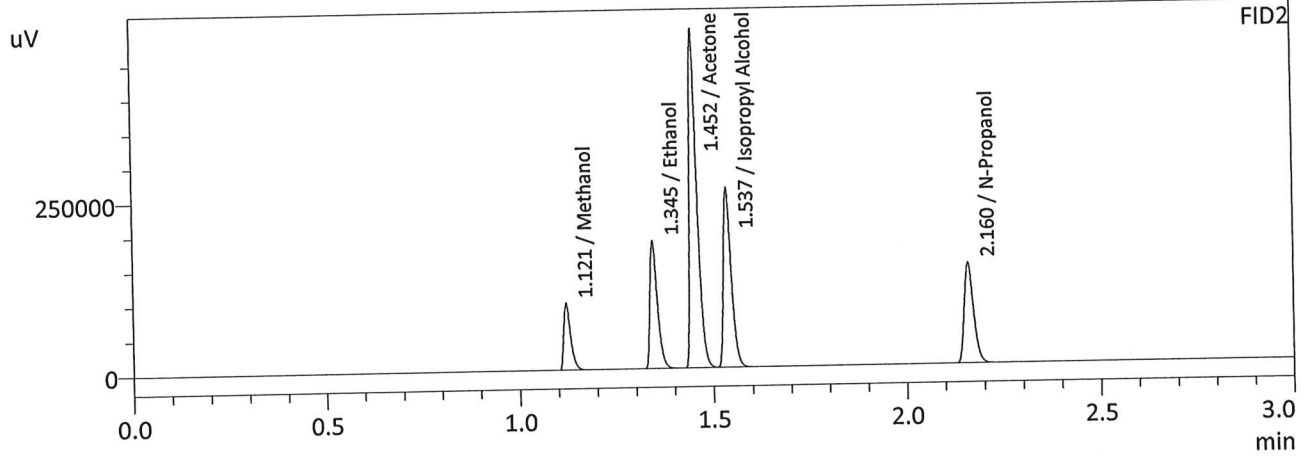
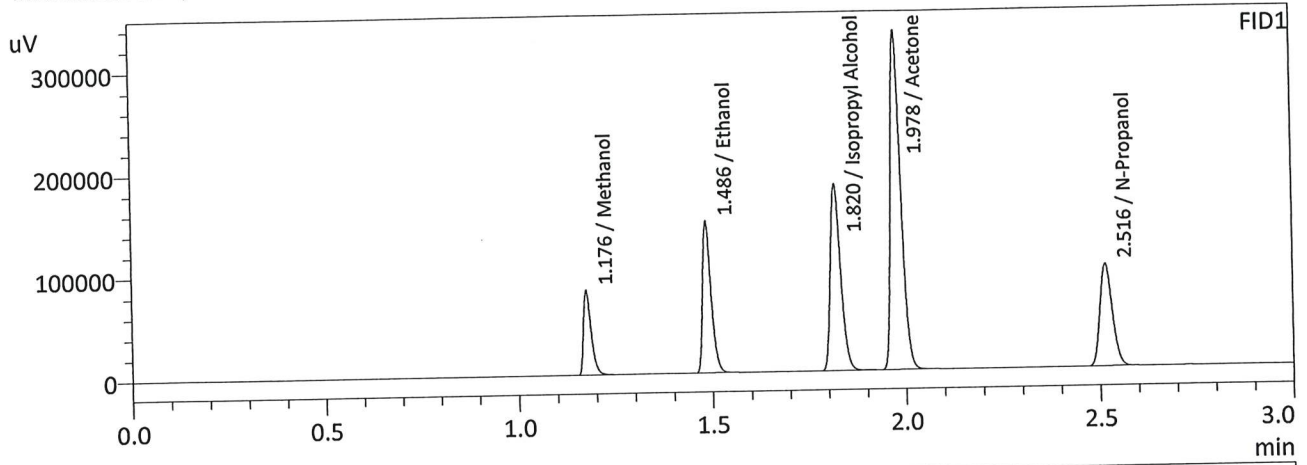
Meridian Blood Alcohol Analysis Batch Table

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

Vial#	Sample Name	Sample Type	Level#	Method File
1	INT STD BLK 1	0:Unknown	0	ALCOHOL 230317.gcm
2	ED VOLATILES FN 0604	0:Unknown	1	ALCOHOL 230317.gcm
3	QC-1-1	0:Unknown	0	ALCOHOL 230317.gcm
4	QC-1-1-B	0:Unknown	0	ALCOHOL 230317.gcm
5	0.08 QA	0:Unknown	0	ALCOHOL 230317.gcm
6	0.08 QA	0:Unknown	0	ALCOHOL 230317.gcm
7	M2023-0999-1	0:Unknown	0	ALCOHOL 230317.gcm
8	M2023-0999-1-B	0:Unknown	0	ALCOHOL 230317.gcm
9	M2023-1024-1	0:Unknown	0	ALCOHOL 230317.gcm
10	M2023-1024-1-B	0:Unknown	0	ALCOHOL 230317.gcm
11	M2023-1042-1	0:Unknown	0	ALCOHOL 230317.gcm
12	M2023-1042-1-B	0:Unknown	0	ALCOHOL 230317.gcm
13	M2023-1092-1	0:Unknown	0	ALCOHOL 230317.gcm
14	M2023-1092-1-B	0:Unknown	0	ALCOHOL 230317.gcm
15	M2023-1103-1	0:Unknown	0	ALCOHOL 230317.gcm
16	M2023-1103-1-B	0:Unknown	0	ALCOHOL 230317.gcm
17	M2023-1104-1	0:Unknown	0	ALCOHOL 230317.gcm
18	M2023-1104-1-B	0:Unknown	0	ALCOHOL 230317.gcm
19	M2023-1118-3	0:Unknown	0	ALCOHOL 230317.gcm
20	M2023-1118-3-B	0:Unknown	0	ALCOHOL 230317.gcm
21	M2023-1119-1	0:Unknown	0	ALCOHOL 230317.gcm
22	M2023-1119-1-B	0:Unknown	0	ALCOHOL 230317.gcm
23	M2023-1148-1	0:Unknown	0	ALCOHOL 230317.gcm
24	M2023-1148-1-B	0:Unknown	0	ALCOHOL 230317.gcm
25	QC-2-1	0:Unknown	0	ALCOHOL 230317.gcm
26	QC-2-1-B	0:Unknown	0	ALCOHOL 230317.gcm
27	M2023-1149-1	0:Unknown	0	ALCOHOL 230317.gcm
28	M2023-1149-1-B	0:Unknown	0	ALCOHOL 230317.gcm
29	M2023-1150-1	0:Unknown	0	ALCOHOL 230317.gcm
30	M2023-1150-1-B	0:Unknown	0	ALCOHOL 230317.gcm
31	M2023-1152-1	0:Unknown	0	ALCOHOL 230317.gcm
32	M2023-1152-1-B	0:Unknown	0	ALCOHOL 230317.gcm
33	M2023-1153-1	0:Unknown	0	ALCOHOL 230317.gcm
34	M2023-1153-1-B	0:Unknown	0	ALCOHOL 230317.gcm
35	M2023-1164-1	0:Unknown	0	ALCOHOL 230317.gcm
36	M2023-1164-1-B	0:Unknown	0	ALCOHOL 230317.gcm
37	M2023-1181-1	0:Unknown	0	ALCOHOL 230317.gcm
38	M2023-1181-1-B	0:Unknown	0	ALCOHOL 230317.gcm
39	M2023-1185-1	0:Unknown	0	ALCOHOL 230317.gcm
40	M2023-1185-1-B	0:Unknown	0	ALCOHOL 230317.gcm
41	M2023-1186-1	0:Unknown	0	ALCOHOL 230317.gcm
42	M2023-1186-1-B	0:Unknown	0	ALCOHOL 230317.gcm
43	P2023-0243-1	0:Unknown	0	ALCOHOL 230317.gcm
44	P2023-0243-1-B	0:Unknown	0	ALCOHOL 230317.gcm
45	QC1-2	0:Unknown	0	ALCOHOL 230317.gcm
46	QC1-2-B	0:Unknown	0	ALCOHOL 230317.gcm
47	INT STD BLK 1	0:Unknown	0	ALCOHOL 230317.gcm
48	M2023-1154-1	0:Unknown	0	ALCOHOL 230317.gcm
49	M2023-1154-1-B	0:Unknown	0	ALCOHOL 230317.gcm
50	INT STD BLK 1	0:Unknown	0	ALCOHOL 230317.gcm
51	DFE 111914OM	0:Unknown	0	ALCOHOL 230317.gcm
52	INT STD BLK 1	0:Unknown	0	ALCOHOL 230317.gcm
53	TFE 111914	0:Unknown	0	ALCOHOL 230317.gcm
54	INT STD BLK	0:Unknown	0	ALCOHOL 230317.gcm

W

Sample Name : MIXED VOLATILES FN 06041902
 Laboratory : Meridian
 Injection Date : 3/17/2023 12:32:56 PM
 Vial # : 2
 Method Filename : Default Project - ALCOHOL_230317.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	0.0000	111210	g/100cc
Ethanol	0.4514	225471	g/100cc
Isopropyl Alcohol	0.0000	334565	g/100cc
Acetone	0.0000	611492	g/100cc
N-Propanol	0.0000	222265	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	0.0000	120353	g/100cc
Ethanol	0.4514	243364	g/100cc
Acetone	0.0000	662440	g/100cc
Isopropyl Alcohol	0.0000	361575	g/100cc
N-Propanol	0.0000	240094	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

VOLATILES DETERMINATION CASEFILE WORKSHEET

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: 0.08 QA

Analysis Date(s): 3/17/2023 12:56:45 PM(-06:00)

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0814	0.0811	0.0003	0.0812	0.0006	0.0815
(g/100cc)	0.0819	0.0818	0.0001	0.0818		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

Refer To Instrument Method: ALCOHOL_230317.gcm

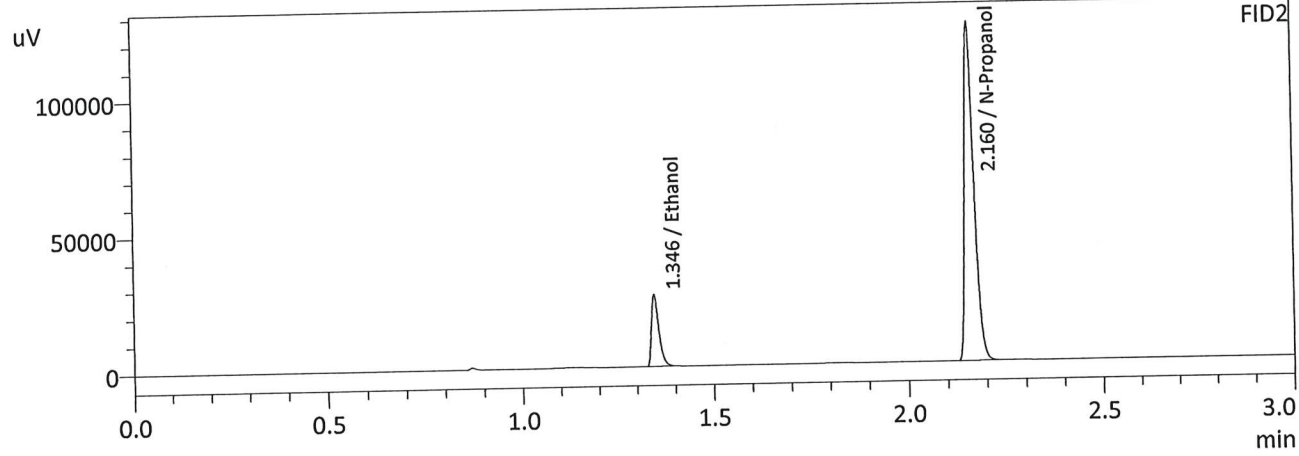
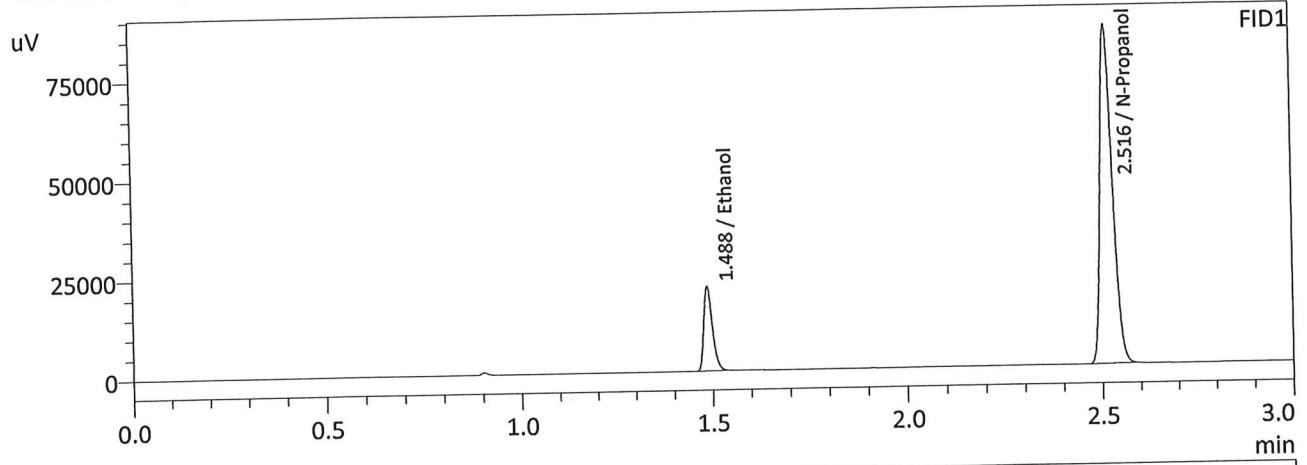
Reporting of Results	Uncertainty of Measurements (UM%): 5.00%		
Overall Mean (g/100cc)	Low	High	5 % of Mean
0.081	0.076	0.086	0.005

	Reported Results
	0.081

Calibration and control data are stored centrally.

W

Sample Name : 0.08 QA
 Laboratory : Meridian
 Injection Date : 3/17/2023 12:56:45 PM
 Vial # : 5
 Method Filename : Default Project - ALCOHOL_230317.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

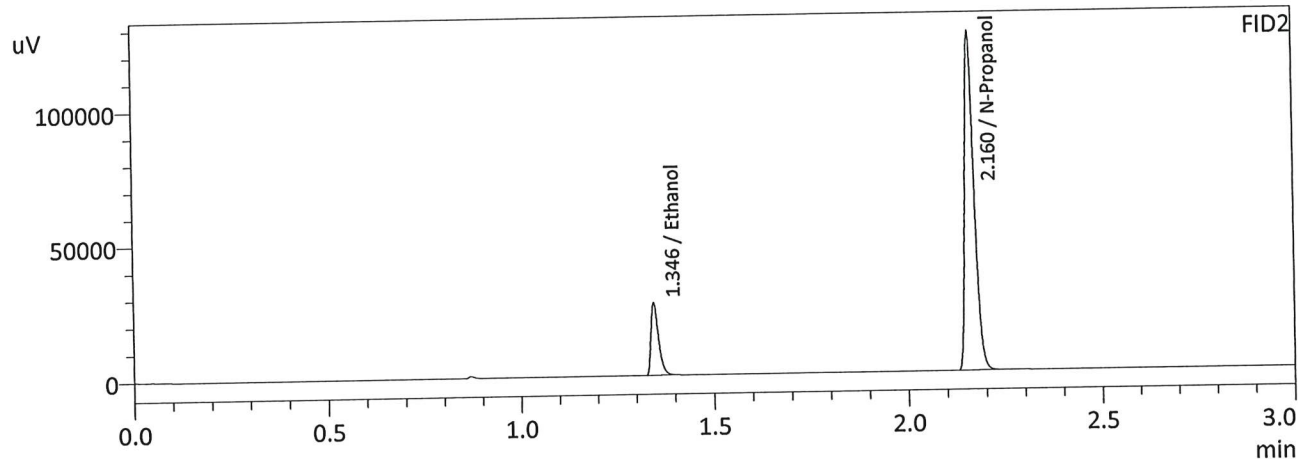
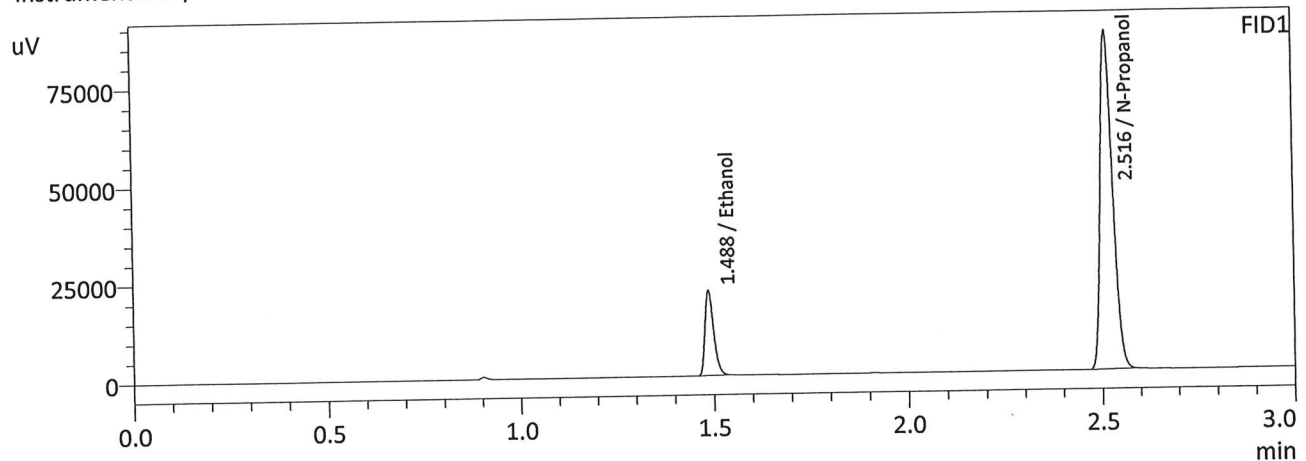
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0814	32831	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	190055	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0811	35286	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	206037	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : 0.08 QA
 Laboratory : Meridian
 Injection Date : 3/17/2023 1:05:22 PM
 Vial # : 6
 Method Filename : Default Project - ALCOHOL_230317.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0819	33398	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	192032	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0818	35972	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	208225	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

VOLATILES DETERMINATION CASEFILE WORKSHEET

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: QC-1-1		Analysis Date(s): 3/17/2023 12:40:36 PM(-06:00)				
	Column 1	Column 2	Column	Mean	Sample A-B	Over-all Mean
	FID A	FID B	Precision	Value	Difference	
Sample Results	0.0787	0.0786	0.0001	0.0786	0.0006	0.0789
(g/100cc)	0.0794	0.0791	0.0003	0.0792		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

Refer To Instrument Method: ALCOHOL_230317.gcm

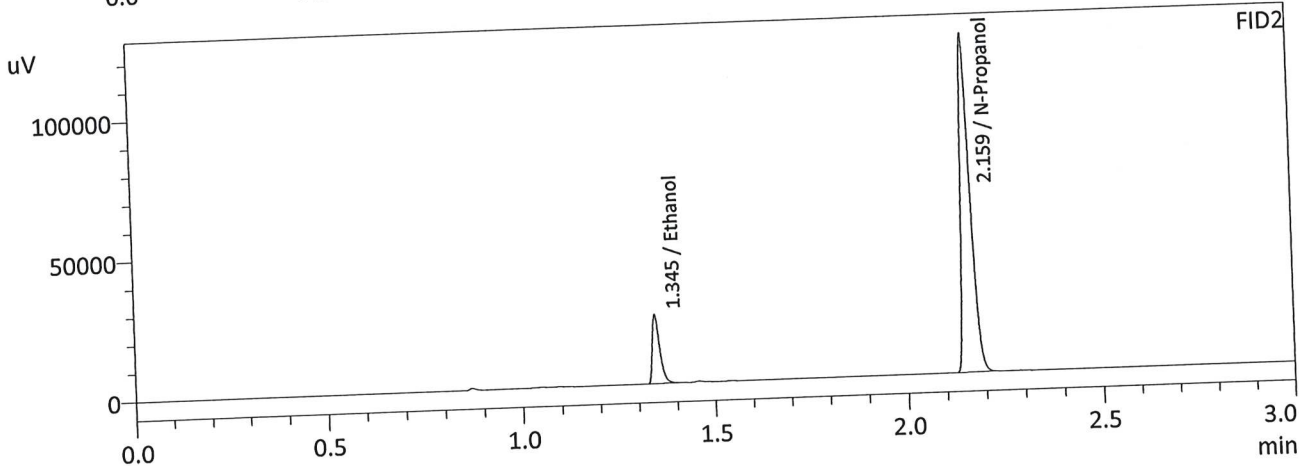
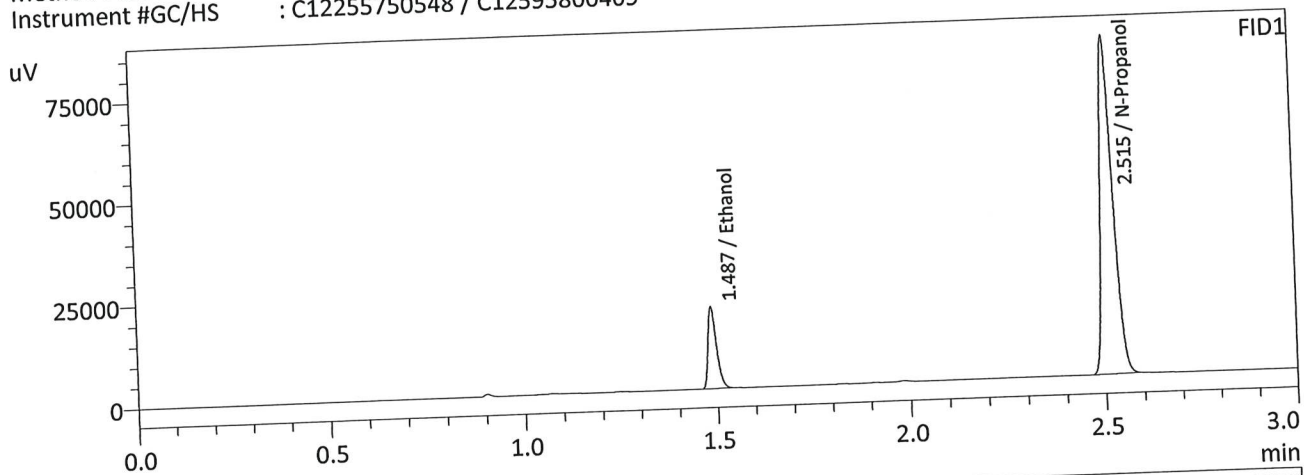
Reporting of Results	Uncertainty of Measurements (UM%): 5.00%		
Overall Mean (g/100cc)	Low	High	5 % of Mean
0.078	0.074	0.082	0.004

	Reported Results
	0.078

Calibration and control data are stored centrally.

W

Sample Name : QC-1-1
 Laboratory : Meridian
 Injection Date : 3/17/2023 12:40:36 PM
 Vial # : 3
 Method Filename : Default Project - ALCOHOL_230317.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

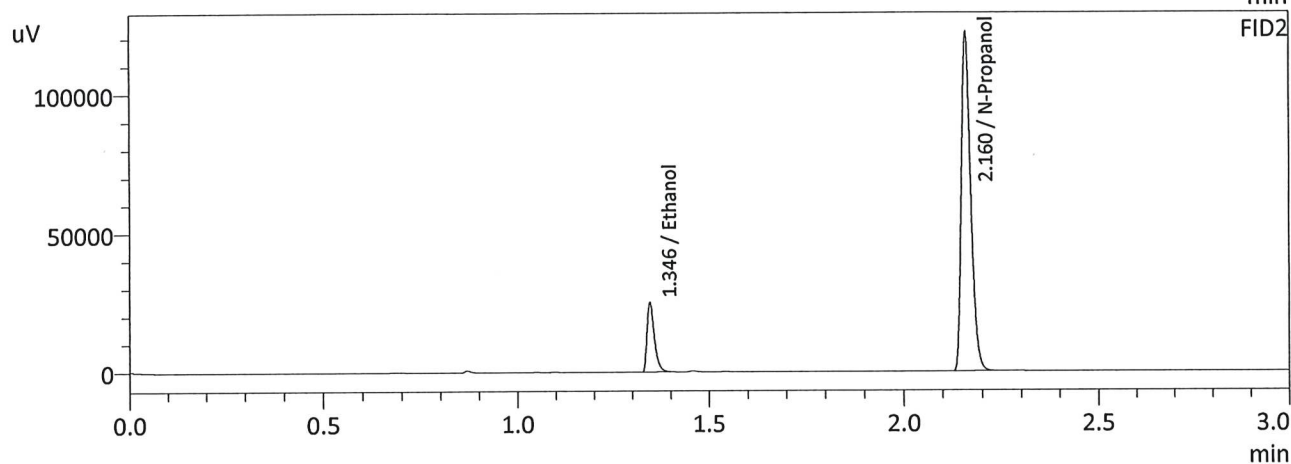
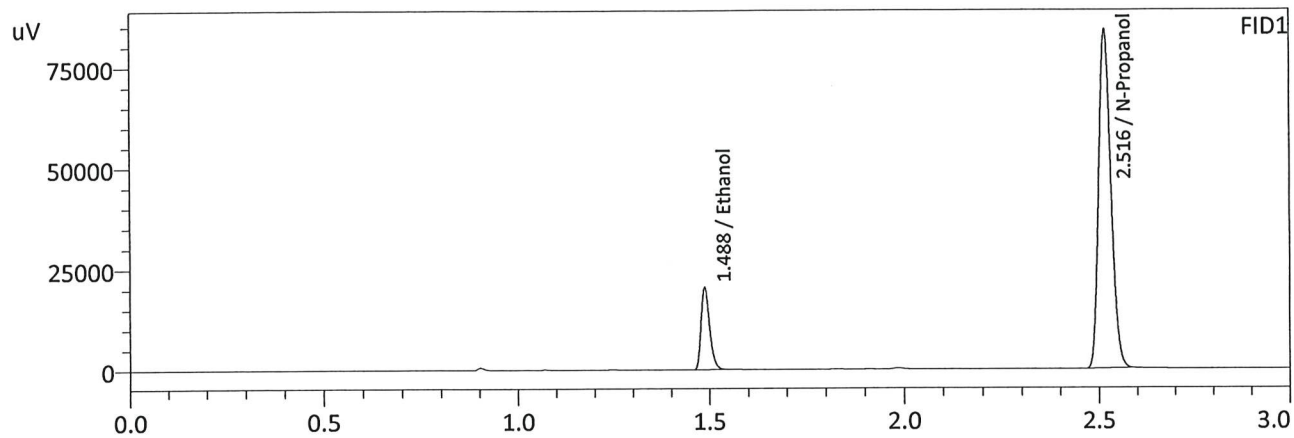
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0787	30892	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	185388	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0786	33214	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	200648	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : QC-1-1-B
 Laboratory : Meridian
 Injection Date : 3/17/2023 12:49:14 PM
 Vial # : 4
 Method Filename : Default Project - ALCOHOL_230317.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0794	31401	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	186707	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0791	33743	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	202298	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

VOLATILES DETERMINATION CASEFILE WORKSHEET

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: QC1-2		Analysis Date(s): 3/17/2023 6:22:56 PM(-06:00)				
	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0813	0.0809	0.0004	0.0811	0.0009	0.0815
(g/100cc)	0.0823	0.0818	0.0005	0.0820		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

Refer To Instrument Method: ALCOHOL_230317.gcm

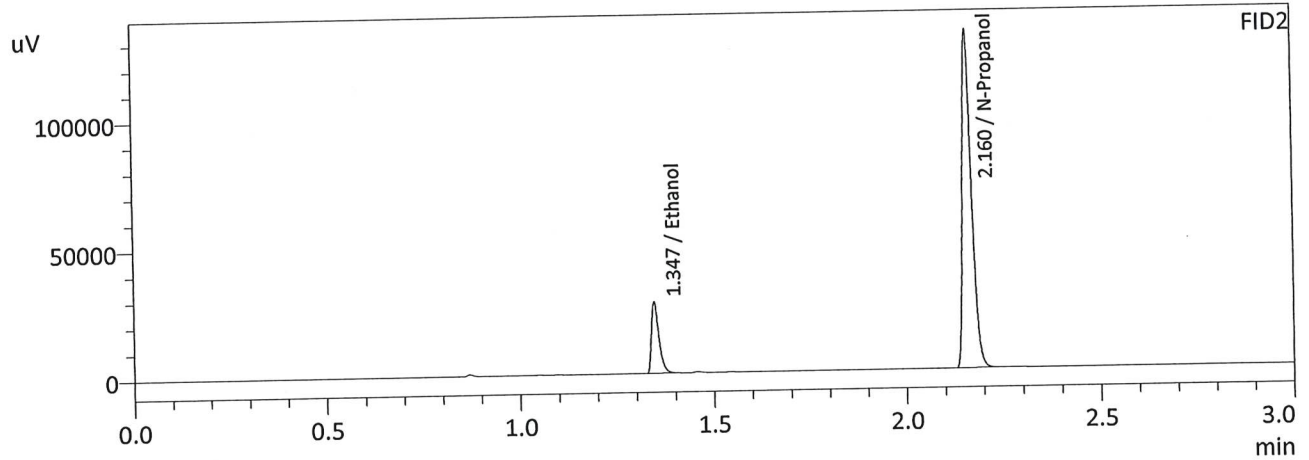
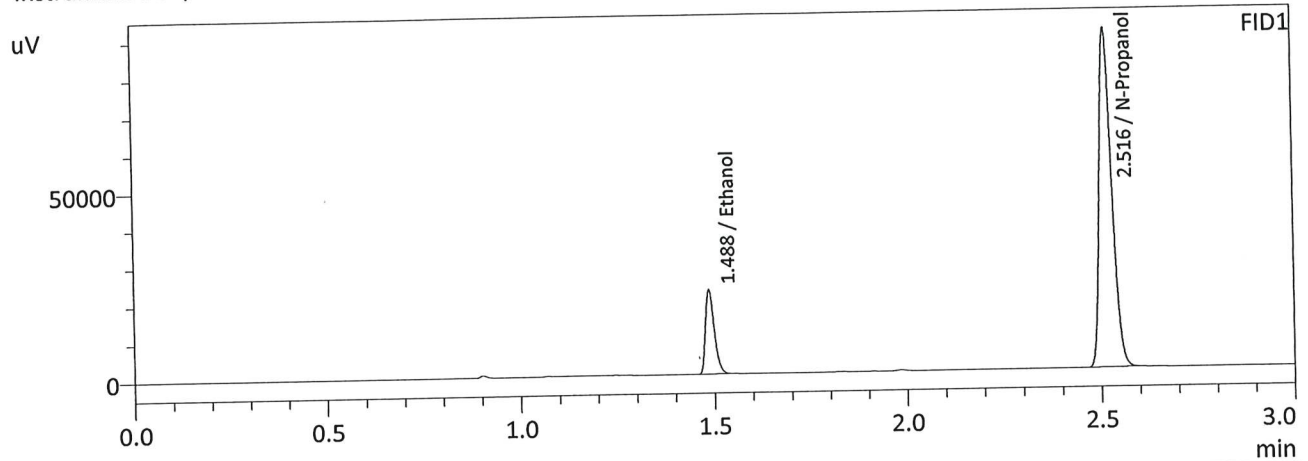
Reporting of Results	Uncertainty of Measurements (UM%):		5.00%
Overall Mean (g/100cc)	Low	High	5 % of Mean
0.081	0.076	0.086	0.005

Reported Results	
0.081	

Calibration and control data are stored centrally.

W

Sample Name : QC1-2
 Laboratory : Meridian
 Injection Date : 3/17/2023 6:22:56 PM
 Vial # : 45
 Method Filename : Default Project - ALCOHOL_230317.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

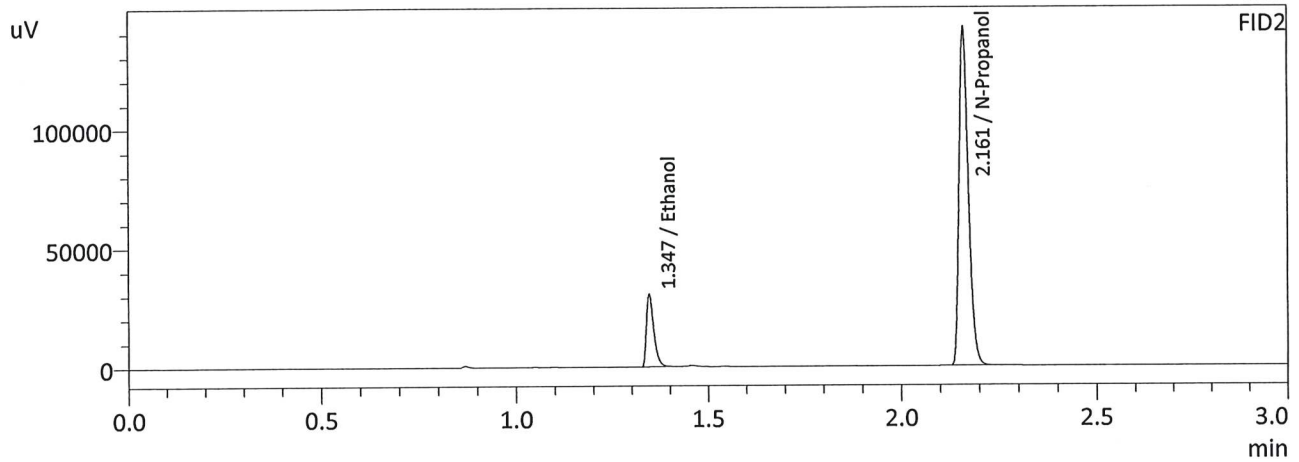
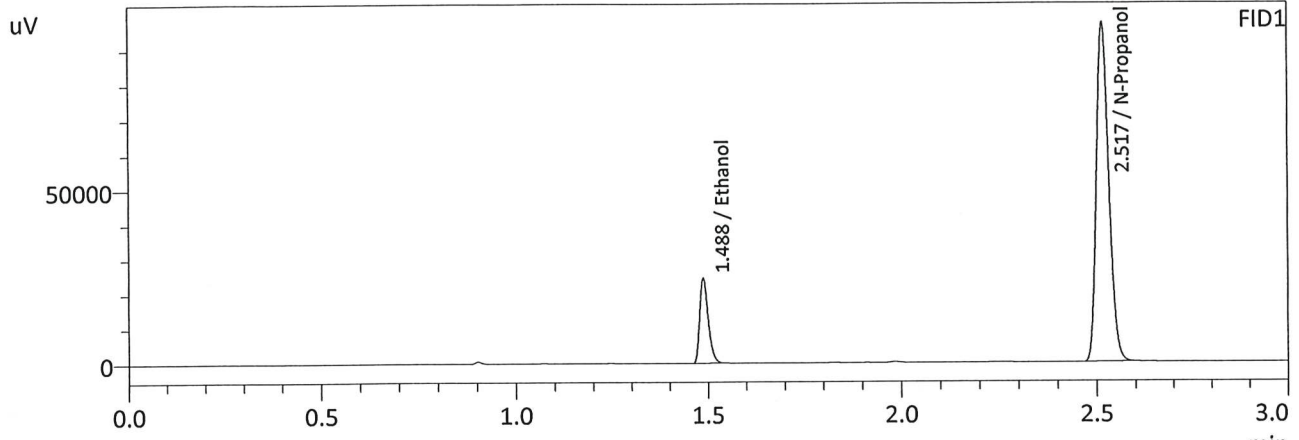
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0813	34606	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	200714	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0809	37230	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	217877	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : QC1-2-B
 Laboratory : Meridian
 Injection Date : 3/17/2023 6:30:10 PM
 Vial # : 46
 Method Filename : Default Project - ALCOHOL_230317.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0823	37857	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	216500	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0818	40642	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	234999	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

VOLATILES DETERMINATION CASEFILE WORKSHEET

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: QC-2-1		Analysis Date(s): 3/17/2023 3:39:57 PM(-06:00)				
	Column 1	Column 2	Column	Mean	Sample A-B	Over-all Mean
	FID A	FID B	Precision	Value	Difference	
Sample Results	0.2048	0.2046	0.0002	0.2047	0.0041	0.2067
(g/100cc)	0.2088	0.2088	0.0000	0.2088		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

Refer To Instrument Method: ALCOHOL_230317.gcm

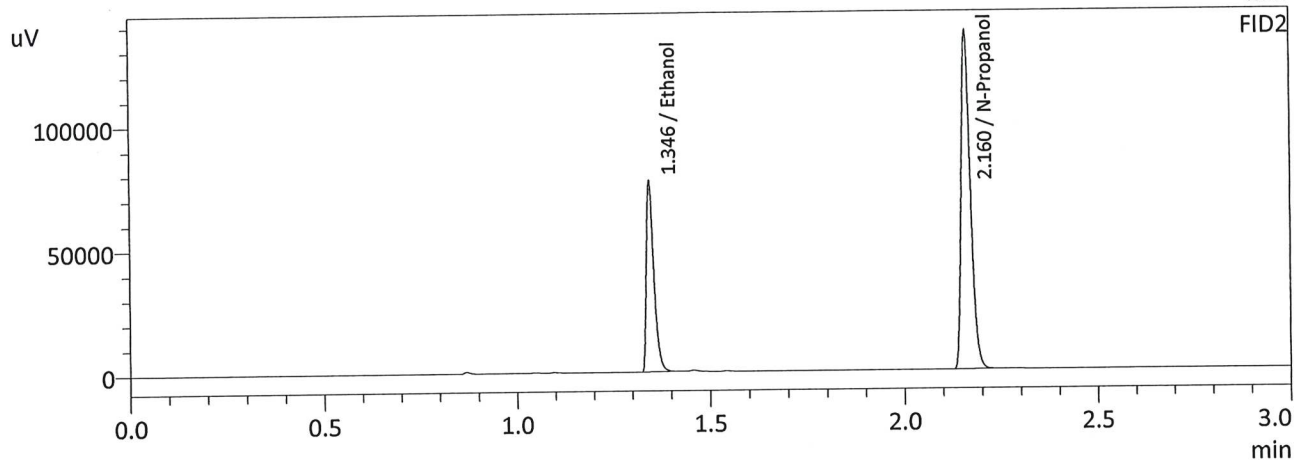
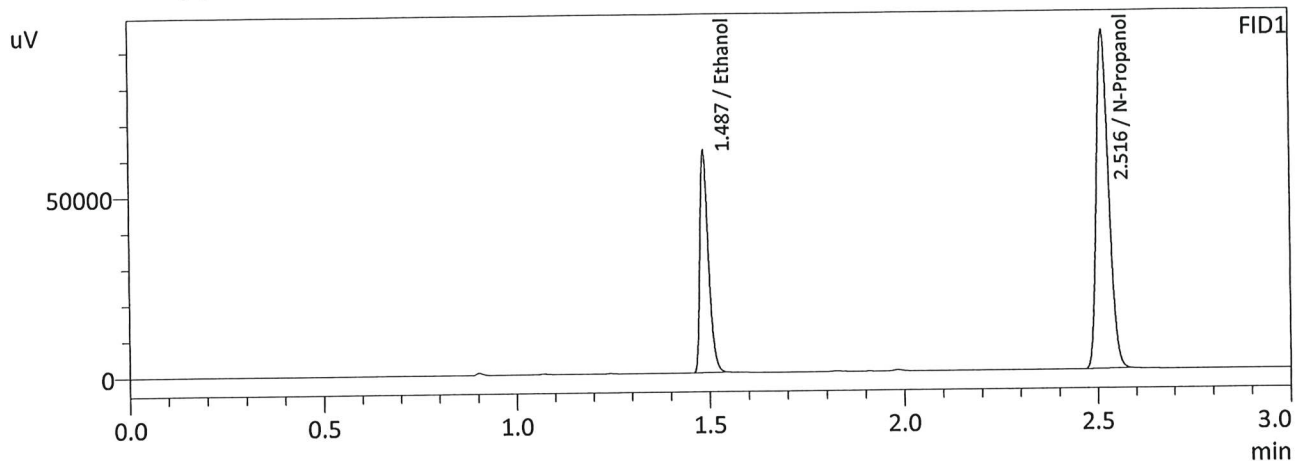
Reporting of Results	Uncertainty of Measurements (UM%): 5.00%		
Overall Mean (g/100cc)	Low	High	5 % of Mean
0.206	0.195	0.217	0.011

Reported Results	
0.206	

Calibration and control data are stored centrally.

W

Sample Name : QC-2-1
 Laboratory : Meridian
 Injection Date : 3/17/2023 3:39:57 PM
 Vial # : 25
 Method Filename : Default Project - ALCOHOL_230317.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

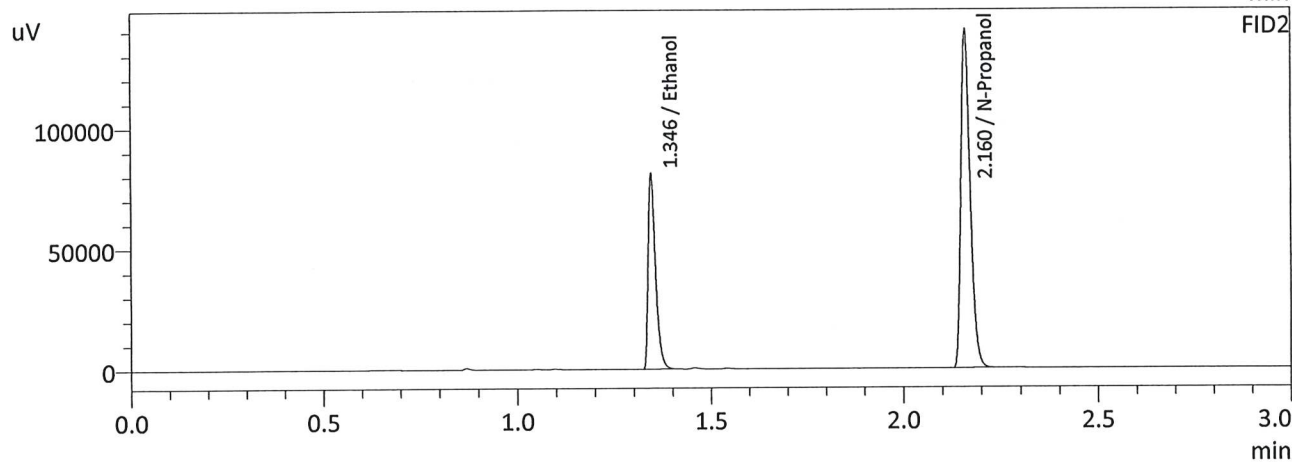
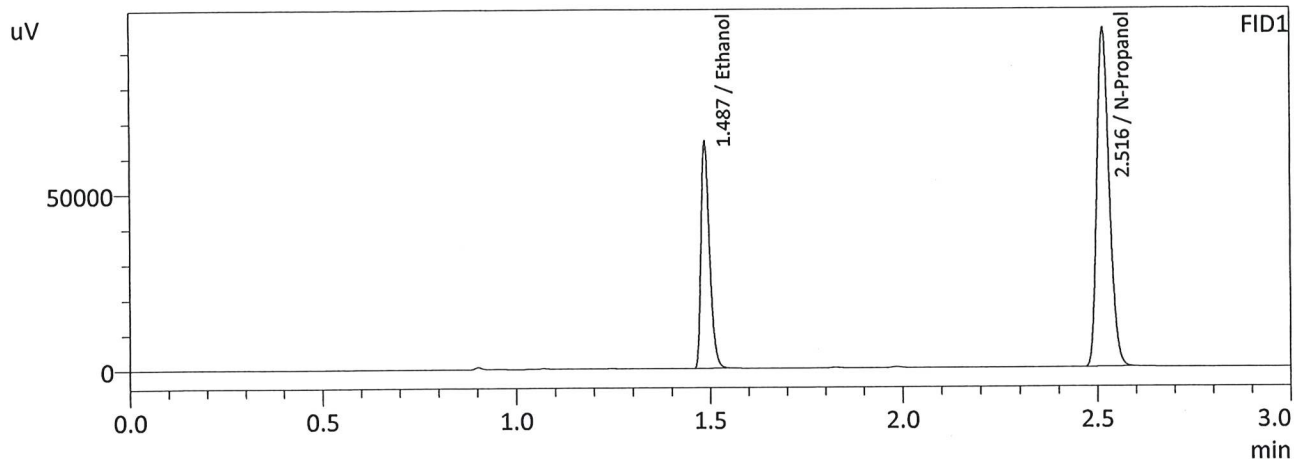
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2048	94553	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	208479	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2046	102173	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	225996	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

Handwritten mark

Sample Name : QC-2-1-B
 Laboratory : Meridian
 Injection Date : 3/17/2023 3:47:58 PM
 Vial # : 26
 Method Filename : Default Project - ALCOHOL_230317.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

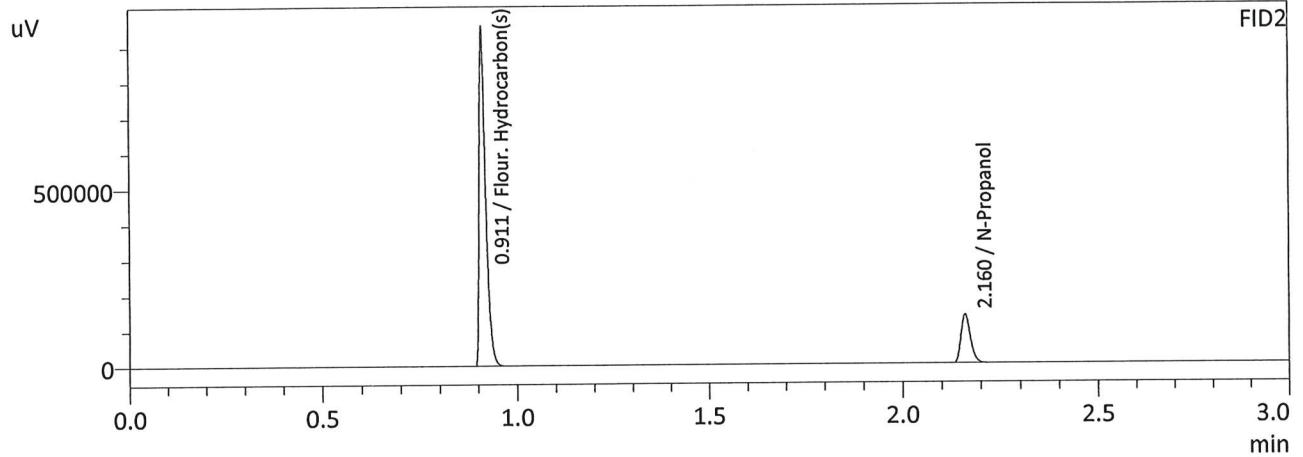
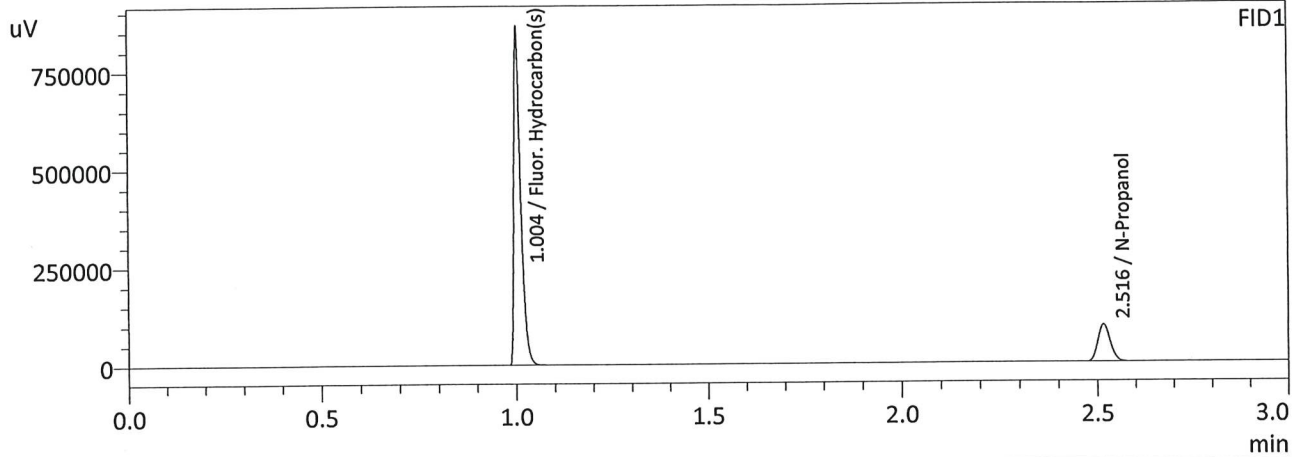
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2088	99022	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	214095	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2088	107213	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	232157	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : DFE 111914OM
 Laboratory : Meridian
 Injection Date : 3/17/2023 7:12:43 PM
 Vial # : 51
 Method Filename : Default Project - ALCOHOL_230317.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

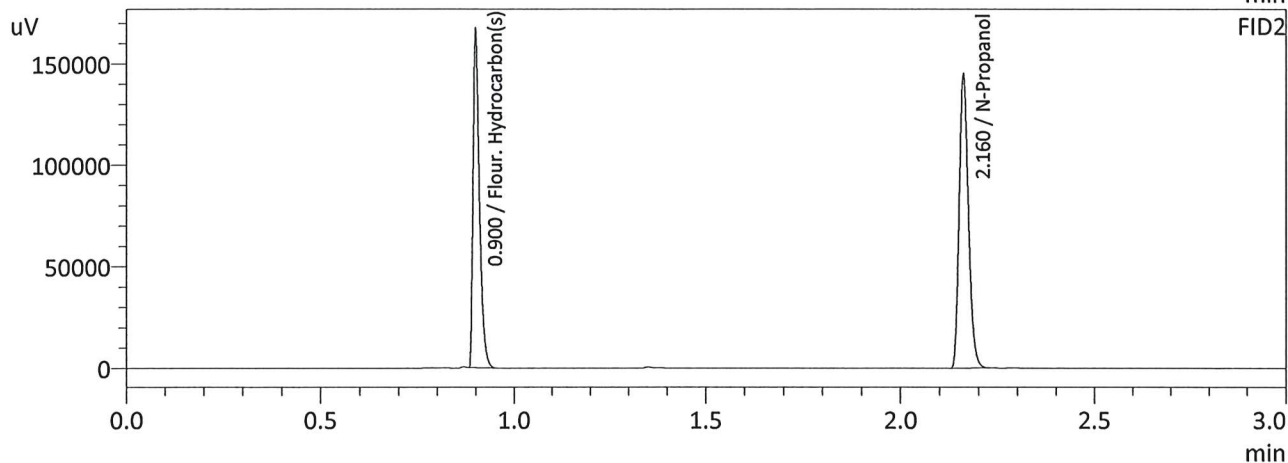
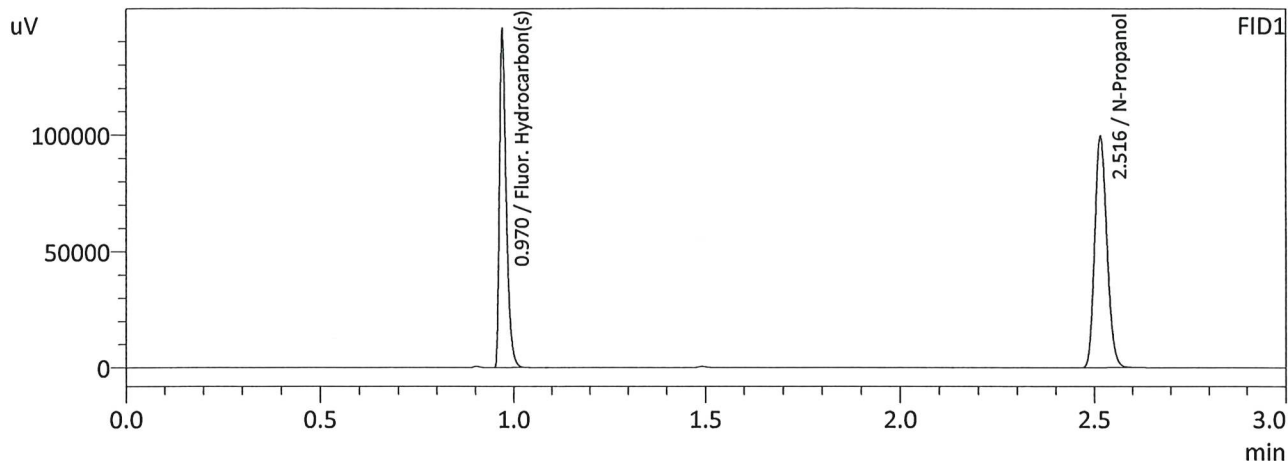
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	210352	g/100cc
Flour. Hydrocarbon(s)	0.0000	1031767	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	228484	g/100cc
Flour. Hydrocarbon(s)	0.0000	1108668	g/100cc

W

Sample Name : TFE 111914
 Laboratory : Meridian
 Injection Date : 3/17/2023 7:28:00 PM
 Vial # : 53
 Method Filename : Default Project - ALCOHOL_230317.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	221295	g/100cc
Fluor. Hydrocarbon(s)	0.0000	176749	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	240244	g/100cc
Fluor. Hydrocarbon(s)	0.0000	192266	g/100cc

W

03/21/2023

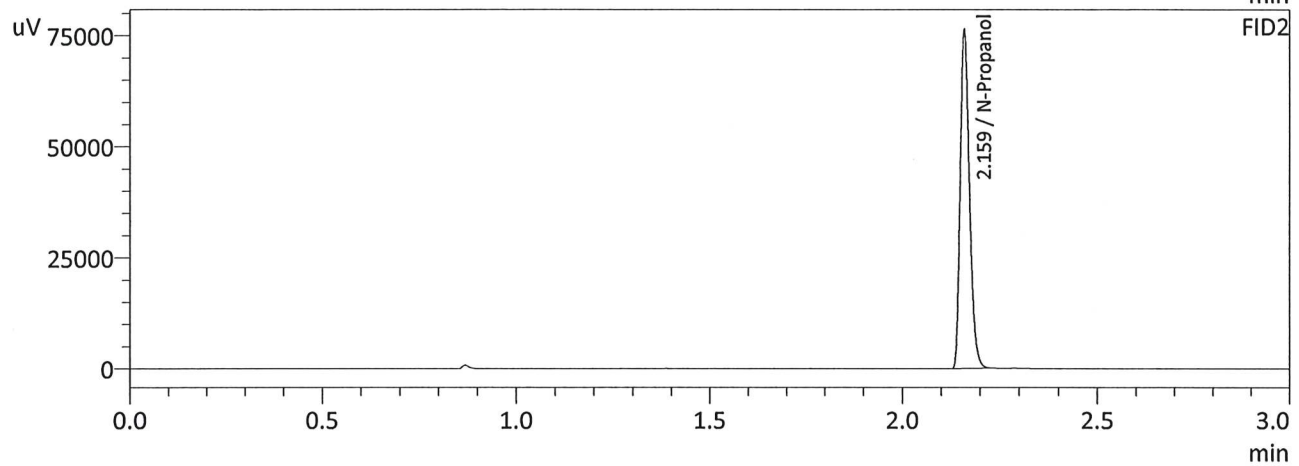
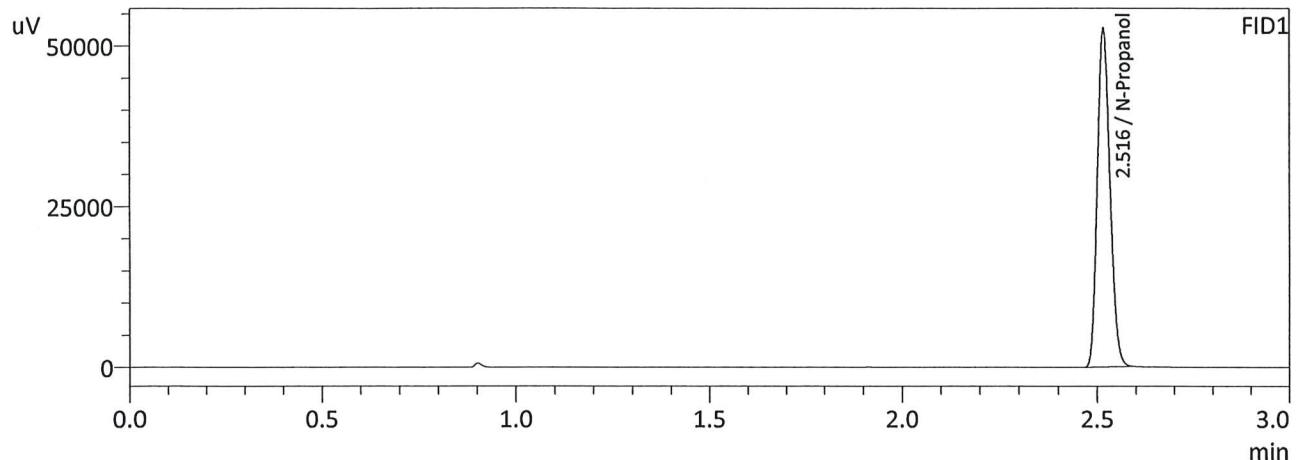
The initial blank (vial #1) of the Worklist 6283 ran on 3/17/23 had Internal Standard values outside the specified range for both detectors. This sample type is only used to qualitatively detect a presence of ethanol, and the internal standard is not a factor in that determination. Therefore, the test results are valid and were not impacted by the Internal Standard recovery.

Additionally, the Blood Alcohol Analytical Method AM #1 section 4.2.2.3.1 (revision 10) requires each analysis run to contain an internal standard blank. This criterium was fulfilled with the blank(s) at the end of the run having Internal Standard values in the specified range.

GG



Sample Name : INT STD BLK 1
 Laboratory : Meridian
 Injection Date : 3/17/2023 12:25:35 PM
 Vial # : 1
 Method Filename : Default Project - ALCOHOL_230317.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

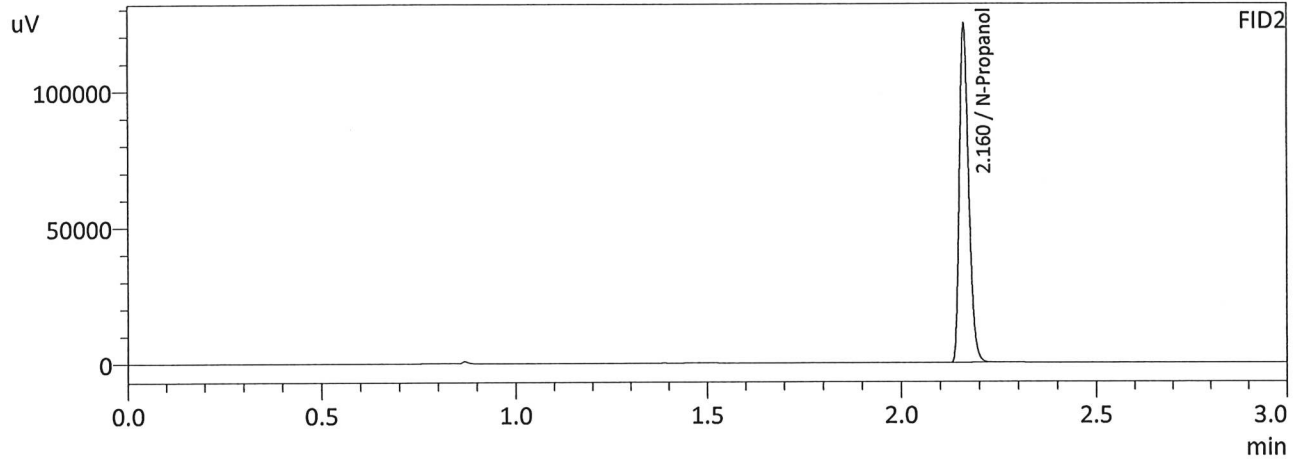
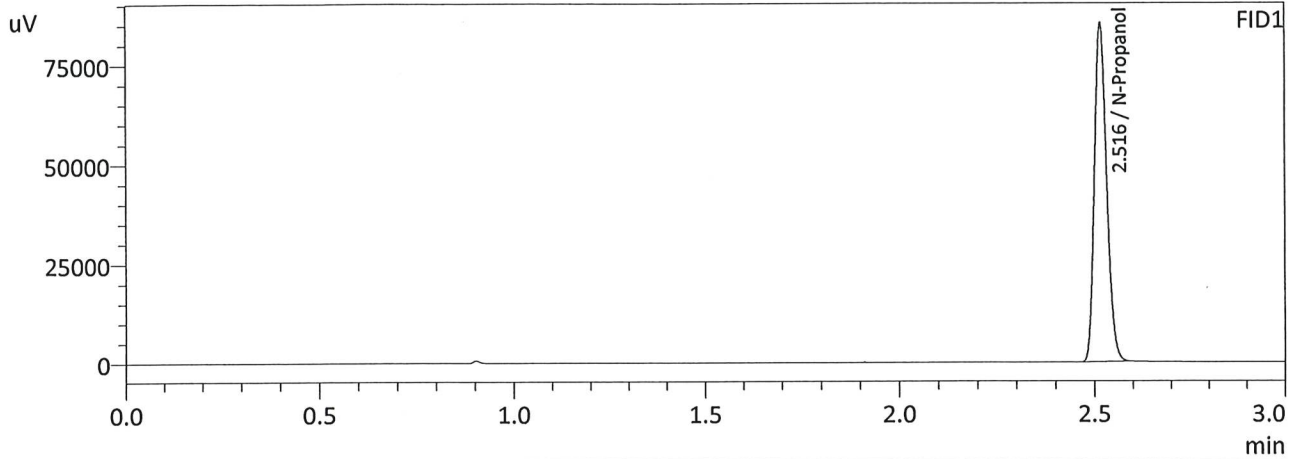
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	117828	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	127402	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : INT STD BLK 1
 Laboratory : Meridian
 Injection Date : 3/17/2023 6:38:01 PM
 Vial # : 47
 Method Filename : Default Project - ALCOHOL_230317.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

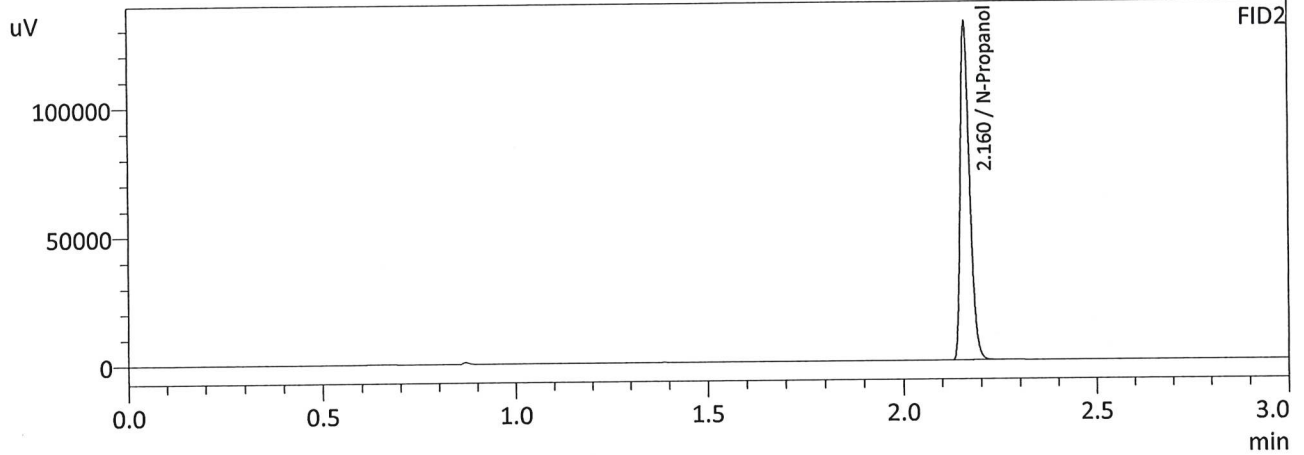
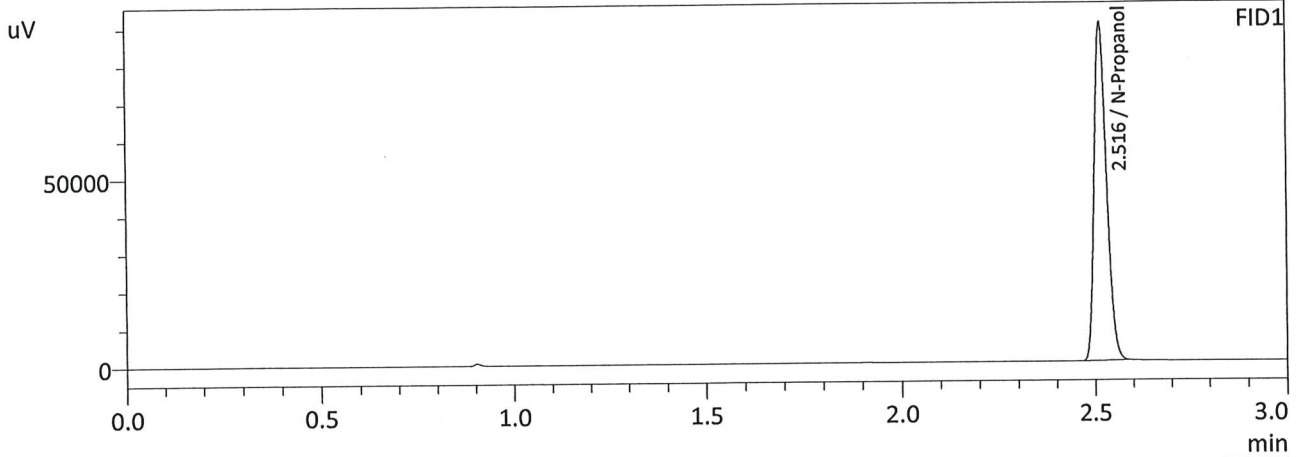
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	189652	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	206037	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : INT STD BLK 1
 Laboratory : Meridian
 Injection Date : 3/17/2023 7:02:59 PM
 Vial # : 50
 Method Filename : Default Project - ALCOHOL_230317.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

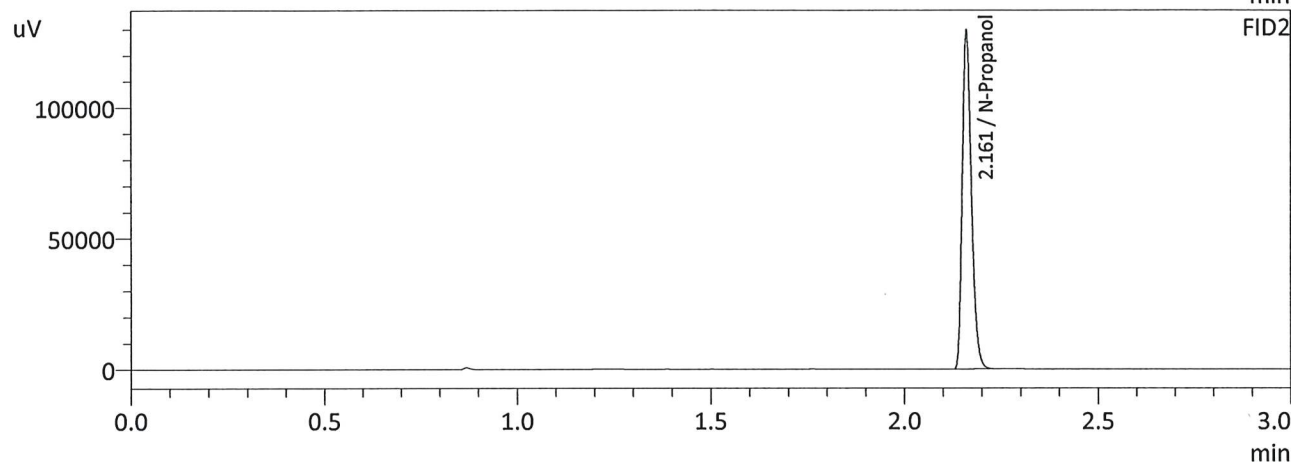
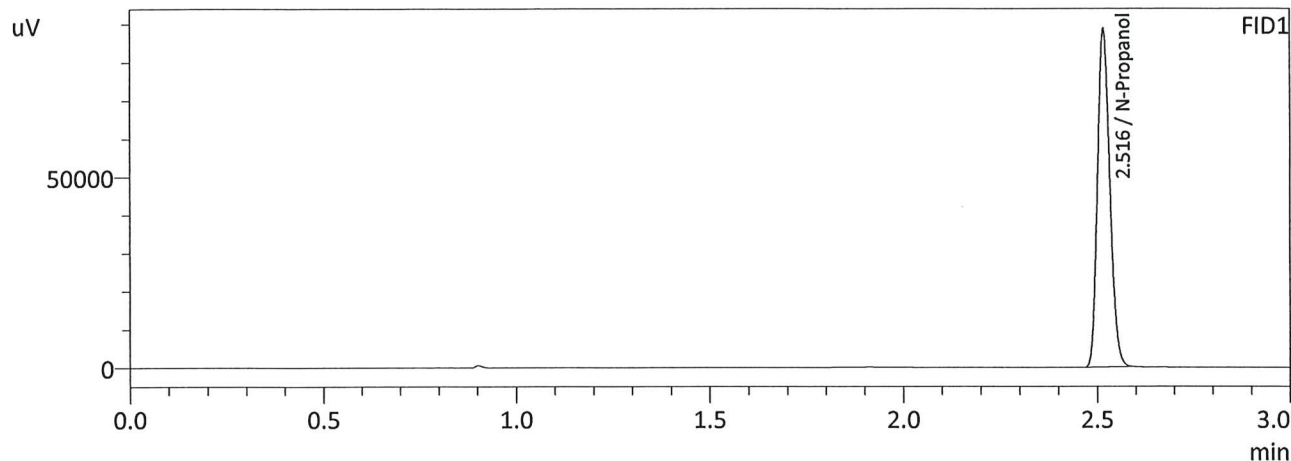
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	200783	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	218152	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : INT STD BLK 1
 Laboratory : Meridian
 Injection Date : 3/17/2023 7:20:09 PM
 Vial # : 52
 Method Filename : Default Project - ALCOHOL_230317.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

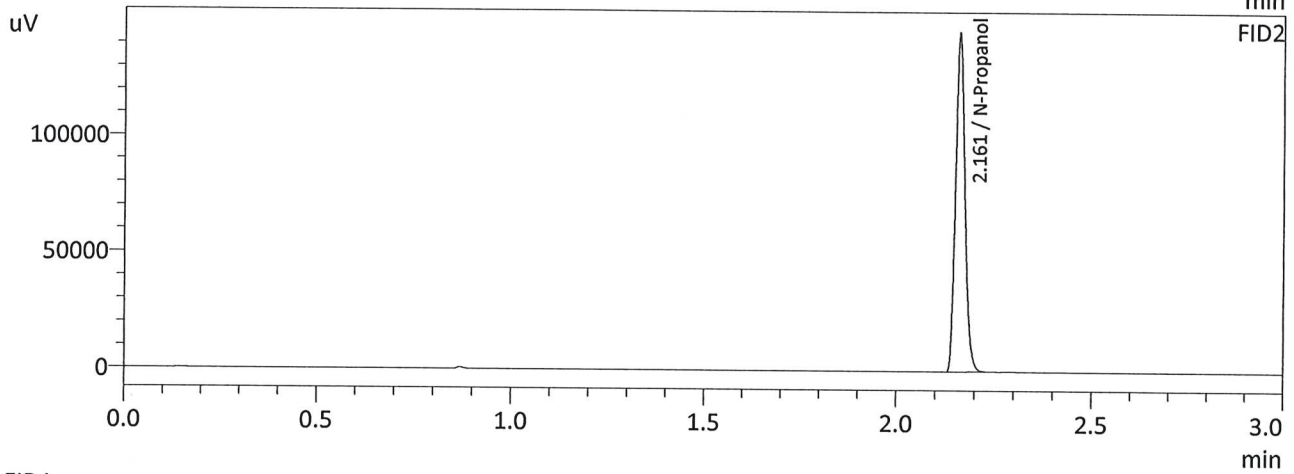
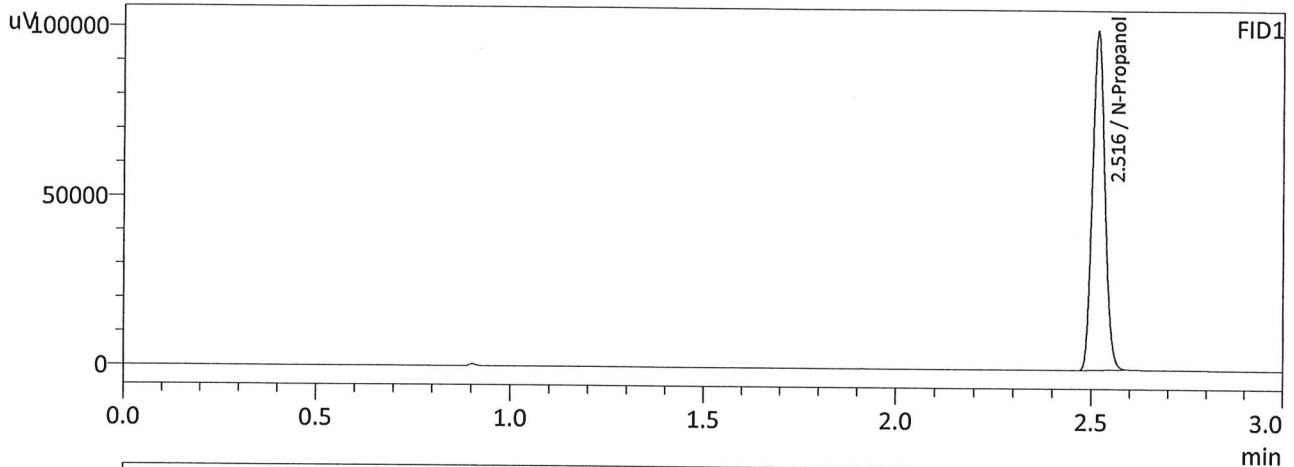
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	197597	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	214514	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : INT STD BLK
 Laboratory : Meridian
 Injection Date : 3/17/2023 7:36:31 PM
 Vial # : 54
 Method Filename : Default Project - ALCOHOL_230317.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	222586	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	241638	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W