

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): 03/09/2023

Calibration Date: 02/27/2023

Worklist #: 6269

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Feb-25 2/28/2023	2101199	0.0808	0.0727-0.0889	0.0791 g/100cc
	3/10/23 gg				0.0818 g/100cc
Level 2	Jul-23	1907007	0.2170	0.1953-0.2387	0.2047 g/100cc
Multi-Component mixture:		Exp:	10/31/2024	Lot #	FN06041902
Curve Fit:		Column 1	0.99959	Column2	0.99964

Ethanol Calibration Reference Material

Calibrator level	Target Value	Acceptable Range	Column 1	Column 2	Precision	Mean
50	0.050	0.045 - 0.055	0.0537	0.0532	0.0005	0.0534
100	0.100	0.090 - 0.110	0.1004	0.1008	0.0004	0.1006
200	0.200	0.180 - 0.220	0.1958	0.1962	0.0004	0.196
300	0.300	0.270 - 0.330	0.2967	0.2965	0.0002	0.2966
400	0.400	0.360 - 0.440			0	#DIV/0!
500	0.500	0.450 - 0.550	0.5031	0.5030	1E-04	0.503

Aqueous Controls

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

REVIEWED
By Rachel Cutler at 2:37 pm, Mar 10, 2023

Internal Standard Monitoring Worksheet





















Worklist #: 6269	Run Date(s): 03/09/2023
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Internal Standard Solution:	Prep Date: 2/24/2023	Exp Date: 8/24/2023
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Sample Name	Column 1 Value	Column 2 Value
0.080	190981	207188
0.080	188244	204242
QC1	183771	199360
QC1	192165	208408
QC1	217834	236578
QC1	215080	233624
QC1		
QC1		
QC2	205390	222893
QC2	213513	231754
QC2		
QC2		
QC2		
QC2		

Average	(-)20%	(+)20%
Column 1 200872.3	160697.8	241046.7
Column 2 218005.9	174404.7	261607.1

Worklist: 6269

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
M2023-0868	1	BCK	Alcohol Analysis	
M2023-0894	1	BCK	Alcohol Analysis	
M2023-0895	1	BCK	Alcohol Analysis	
M2023-0917	1	BCK	Alcohol Analysis	
M2023-0919	1	BCK	Alcohol Analysis	
M2023-0920	1	BCK	Alcohol Analysis	
M2023-0921	1	BCK	Alcohol Analysis	
M2023-0936	1	BCK	Alcohol Analysis	
M2023-0950	1	BCK	Alcohol Analysis	
M2023-0953	1	BCK	Alcohol Analysis	
M2023-0960	1	BCK	Alcohol Analysis	
M2023-0965	1	BCK	Alcohol Analysis	
M2023-0966	1	BCK	Alcohol Analysis	
M2023-0976	1	BCK	Alcohol Analysis	
M2023-0980	1	BCK	Alcohol Analysis	
M2023-0981	1	BCK	Alcohol Analysis	
M2023-0991	1	BCK	Alcohol Analysis	
M2023-0999 *	1	BCK	Alcohol Analysis	
M2023-1000	1	BCK	Alcohol Analysis	
M2023-1012	1	BCK	Alcohol Analysis	

* M2023-0999-1 - Internal Standard recovery values were outside the established range. Sample will be reprocessed and re-run at a later date.

3/10/23 BS

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Meridian Blood Alcohol Analysis Batch Table

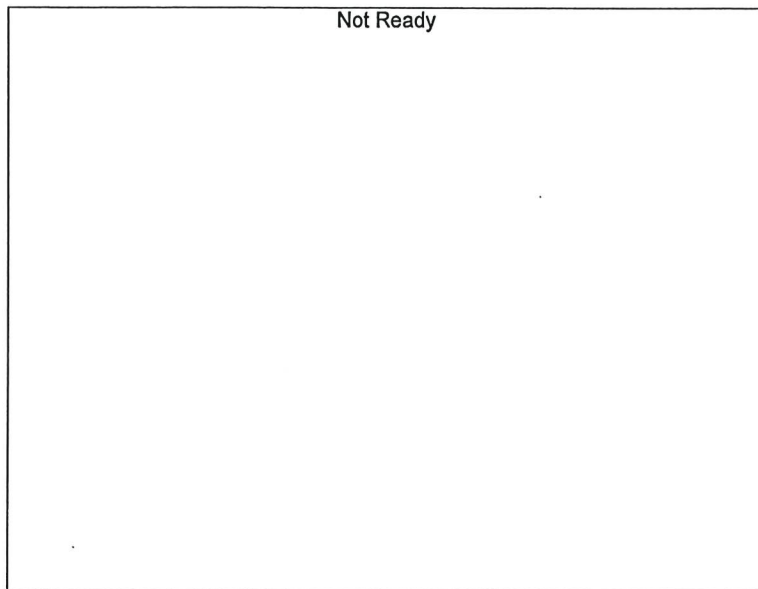
Shimadzu GC-2030 Serial #C12255750548
 Shimadzu HS-20 Serial #C12595800409
 Lab Solutions Software Ver. 5.99
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Vial#	Sample Name	Sample Type	Level#	Method File
1	ISTD BLK 1	0:Unknown	0	ALCOHOL 230227.gcm
2	ED VOLATILES FN 0604	0:Unknown	1	ALCOHOL 230227.gcm
3	QC-1-1	0:Unknown	0	ALCOHOL 230227.gcm
4	QC-1-1-B	0:Unknown	0	ALCOHOL 230227.gcm
5	0.08 QA	0:Unknown	0	ALCOHOL 230227.gcm
6	0.08 QA-B	0:Unknown	0	ALCOHOL 230227.gcm
7	M2023-0868-1	0:Unknown	0	ALCOHOL 230227.gcm
8	M2023-0868-1-B	0:Unknown	0	ALCOHOL 230227.gcm
9	M2023-0894-1	0:Unknown	0	ALCOHOL 230227.gcm
10	M2023-0894-1-B	0:Unknown	0	ALCOHOL 230227.gcm
11	M2023-0895-1	0:Unknown	0	ALCOHOL 230227.gcm
12	M2023-0895-1-B	0:Unknown	0	ALCOHOL 230227.gcm
13	M2023-0917-1	0:Unknown	0	ALCOHOL 230227.gcm
14	M2023-0917-1-B	0:Unknown	0	ALCOHOL 230227.gcm
15	M2023-0919-1	0:Unknown	0	ALCOHOL 230227.gcm
16	M2023-0919-1-B	0:Unknown	0	ALCOHOL 230227.gcm
17	M2023-0921-1	0:Unknown	0	ALCOHOL 230227.gcm
18	M2023-0921-1-B	0:Unknown	0	ALCOHOL 230227.gcm
19	M2023-0936-1	0:Unknown	0	ALCOHOL 230227.gcm
20	M2023-0936-1-B	0:Unknown	0	ALCOHOL 230227.gcm
21	M2023-0950-1	0:Unknown	0	ALCOHOL 230227.gcm
22	M2023-0950-1-B	0:Unknown	0	ALCOHOL 230227.gcm
23	M2023-0953	0:Unknown	0	ALCOHOL 230227.gcm
24	M2023-0953-B	0:Unknown	0	ALCOHOL 230227.gcm
25	QC-2-1	0:Unknown	0	ALCOHOL 230227.gcm
26	QC-2-1-B	0:Unknown	0	ALCOHOL 230227.gcm
27	M2023-0960-1	0:Unknown	0	ALCOHOL 230227.gcm
28	M2023-0960-1-B	0:Unknown	0	ALCOHOL 230227.gcm
29	M2023-0965-1	0:Unknown	0	ALCOHOL 230227.gcm
30	M2023-0965-1-B	0:Unknown	0	ALCOHOL 230227.gcm
31	M2023-0966-1	0:Unknown	0	ALCOHOL 230227.gcm
32	M2023-0966-1-B	0:Unknown	0	ALCOHOL 230227.gcm
33	M2023-0976-1	0:Unknown	0	ALCOHOL 230227.gcm
34	M2023-0976-1-B	0:Unknown	0	ALCOHOL 230227.gcm
35	M2023-0980-1	0:Unknown	0	ALCOHOL 230227.gcm
36	M2023-0980-1-B	0:Unknown	0	ALCOHOL 230227.gcm
37	M2023-0981-1	0:Unknown	0	ALCOHOL 230227.gcm
38	M2023-0981-1-B	0:Unknown	0	ALCOHOL 230227.gcm
39	M2023-0991-1	0:Unknown	0	ALCOHOL 230227.gcm
40	M2023-0991-1-B	0:Unknown	0	ALCOHOL 230227.gcm
41	M2023-0999-1	0:Unknown	0	ALCOHOL 230227.gcm
42	M2023-0999-1-B	0:Unknown	0	ALCOHOL 230227.gcm
43	M2023-1000-1	0:Unknown	0	ALCOHOL 230227.gcm
44	M2023-1000-1-B	0:Unknown	0	ALCOHOL 230227.gcm
45	M2023-1012-1	0:Unknown	0	ALCOHOL 230227.gcm
46	M2023-1012-1-B	0:Unknown	0	ALCOHOL 230227.gcm
47	QC-1-2	0:Unknown	0	ALCOHOL 230227.gcm
48	QC-1-2-B	0:Unknown	0	ALCOHOL 230227.gcm
49	M2023-0920-1	0:Unknown	0	ALCOHOL 230227.gcm
50	M2023-0920-1-B	0:Unknown	0	ALCOHOL 230227.gcm
51	ISTD BLK 2	0:Unknown	0	ALCOHOL 230227.gcm
52	DFE 1119140M	0:Unknown	0	ALCOHOL 230227.gcm
53	ISTD BLK 3	0:Unknown	0	ALCOHOL 230227.gcm
54	TFE 111914	0:Unknown	0	ALCOHOL 230227.gcm
55	ISTD BLK 4	0:Unknown	0	ALCOHOL 230227.gcm

Calibration Table

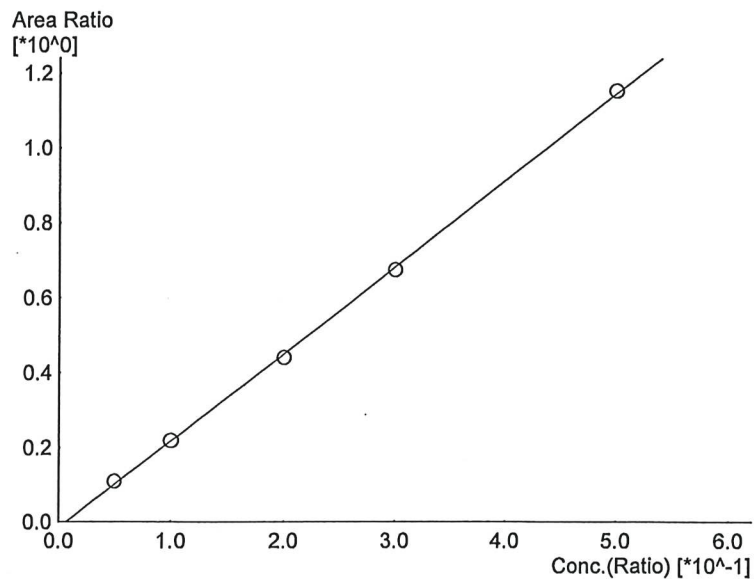
Laboratory : MERIDIAN
 Instrument Name : GC-BAC
 Instrument Serial # : C12595800409 / C12255750548

<<Data File>>
 Method File :Default Project - ALCOHOL_230227.gcm
 Batch File :Default Project - CALCURVE_TEMPLATE_230227.gcb
 Date Acquired :2/27/2023 11:22:25 AM
 Date Created :2/27/2023 11:16:46 AM
 Date Modified :2/27/2023 11:25:27 AM



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

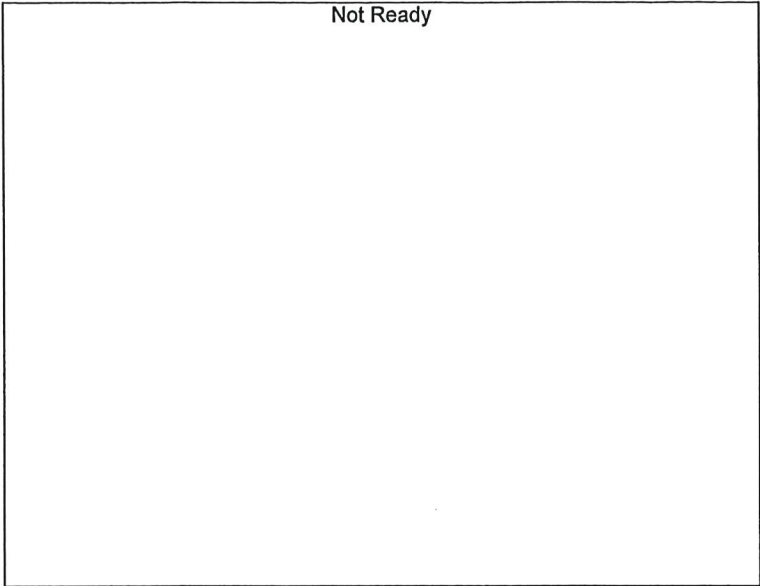
#	Conc.	Area	Std. Conc.
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Name : Ethanol
 Detector Name: FID1
 Function : $f(x)=2.32327*x-0.0151434$
 R² value= 0.9995914
 FitType: Linear
 ZeroThrough: Not Through

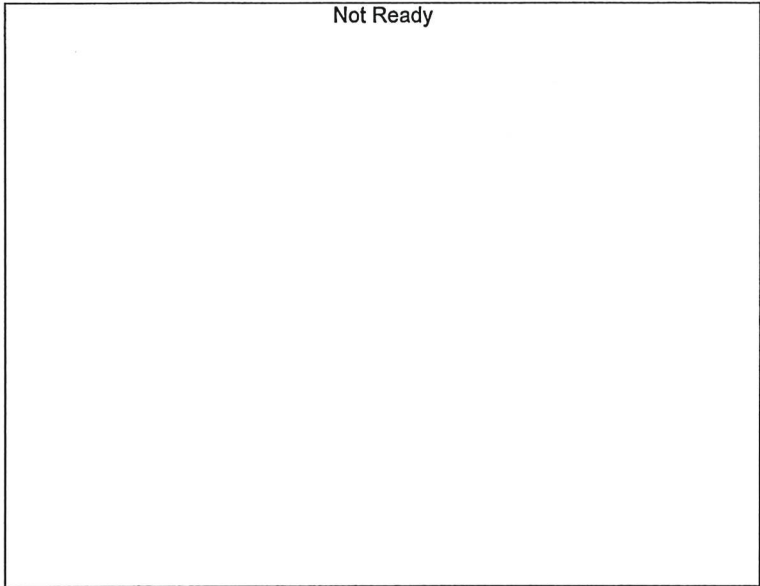
#	Conc.	Area	Std. Conc.
1	0.050	20773	0.0537
2	0.100	40339	0.1004
3	0.200	80674	0.1958
4	0.300	122311	0.2967
5	0.500	234334	0.5031

W



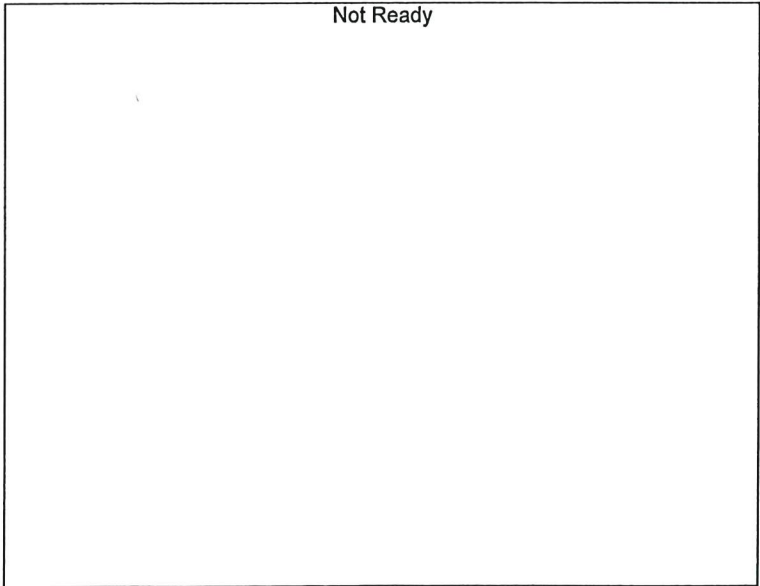
Name : Isopropyl Alcohol
Detector Name: FID1
Function : $f(x)=0*x+0$
R² value= 0
FitType: Linear
ZeroThrough: Not Through

#	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

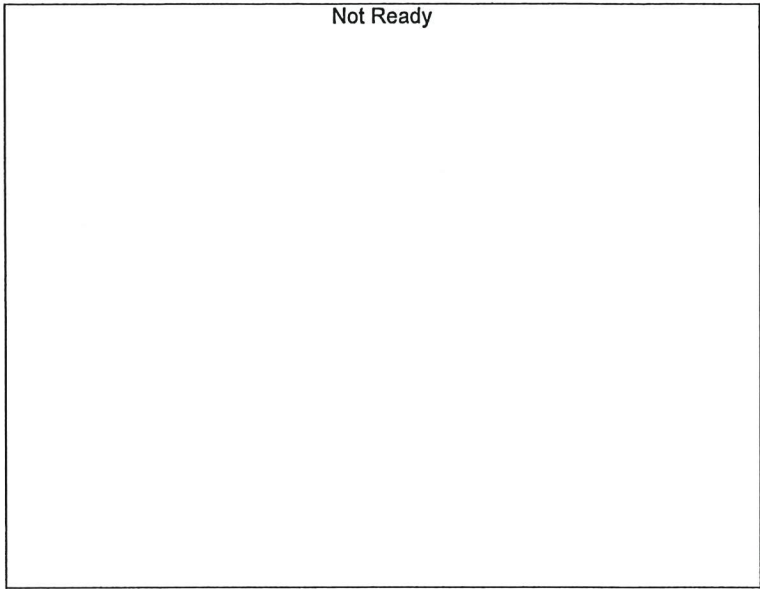
#	Conc.	Area	Std. Conc.
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Name : Fluor. Hydrocarbon(s)
Detector Name: FID1
Function : $f(x)=0*x+0$
R² value= 0
FitType: Linear
ZeroThrough: Not Through

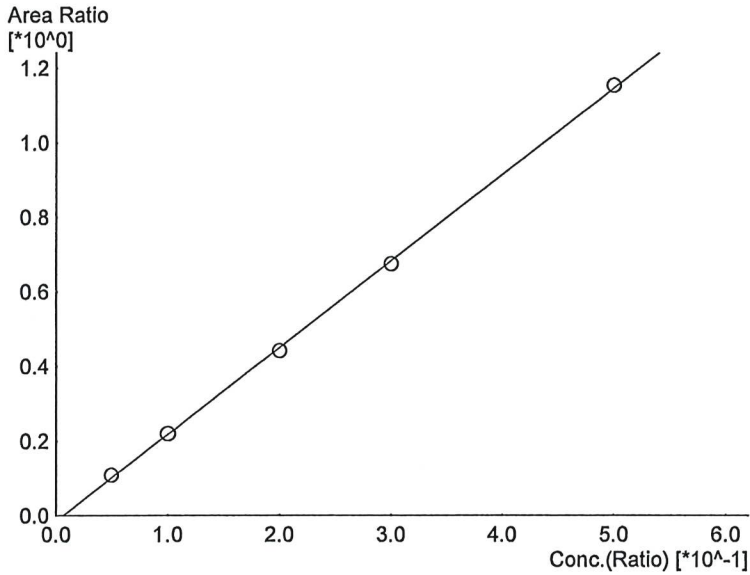
#	Conc.	Area	Std. Conc.
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W



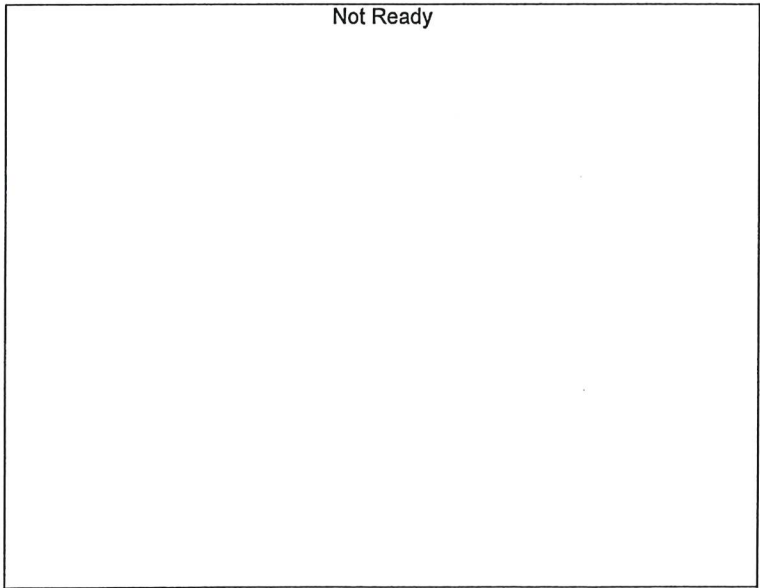
Name : Methanol
 Detector Name: FID2
 Function : $f(x)=0*x+0$
 R² value= 0
 FitType: Linear
 ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
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Name : Ethanol
 Detector Name: FID2
 Function : $f(x)=2.32243*x-0.0149318$
 R² value= 0.9996365
 FitType: Linear
 ZeroThrough: Not Through

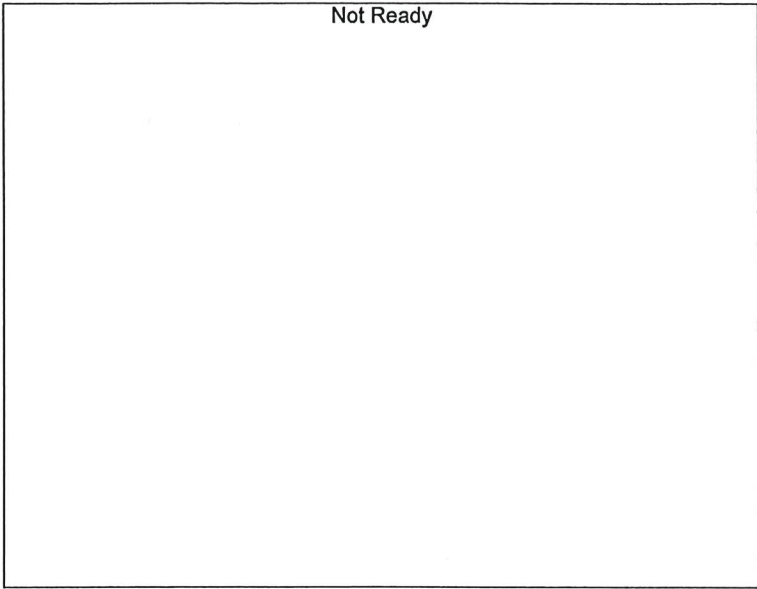
#	Conc.	Area	Std. Conc.
1	0.050	22317	0.0532
2	0.100	43917	0.1008
3	0.200	87627	0.1962
4	0.300	132496	0.2965
5	0.500	253759	0.5030



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

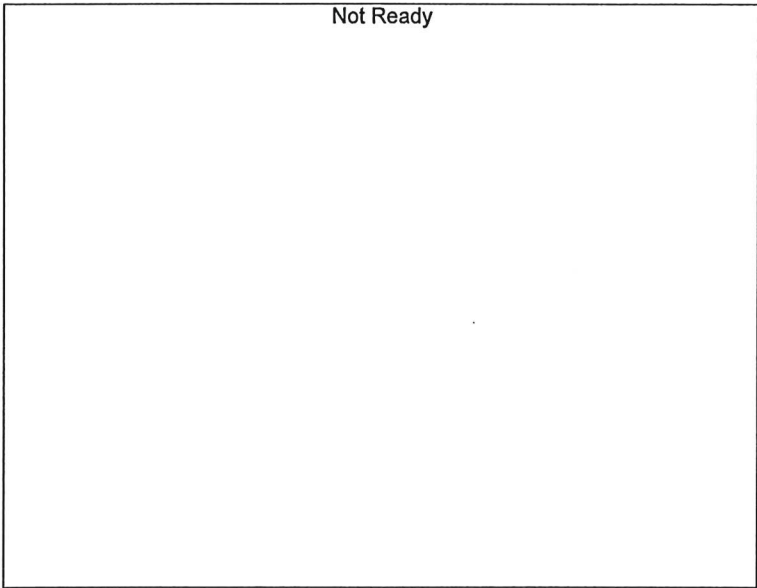
#	Conc.	Area	Std. Conc.
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W



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.
---	-------	------	------------

W

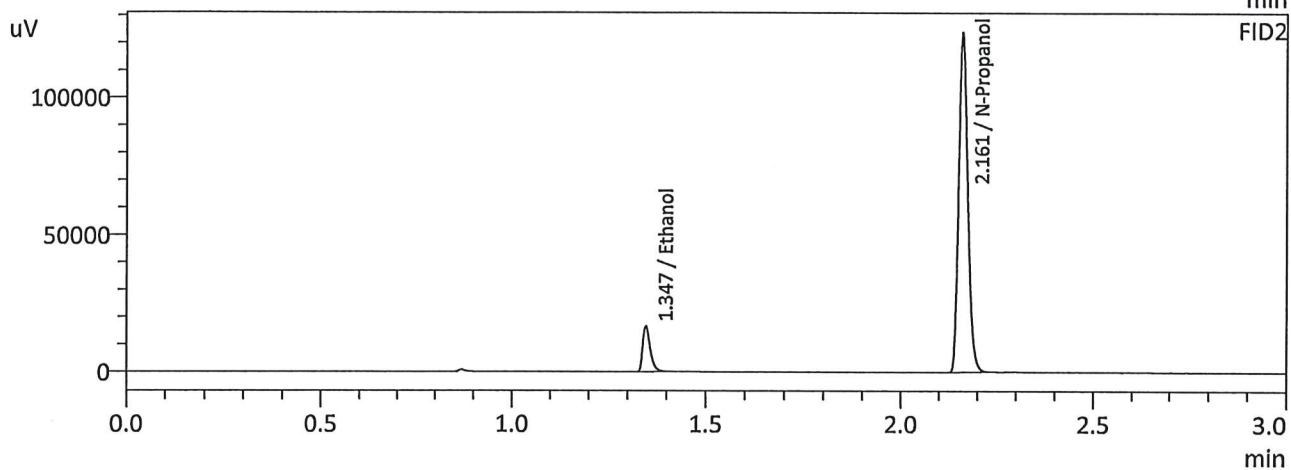
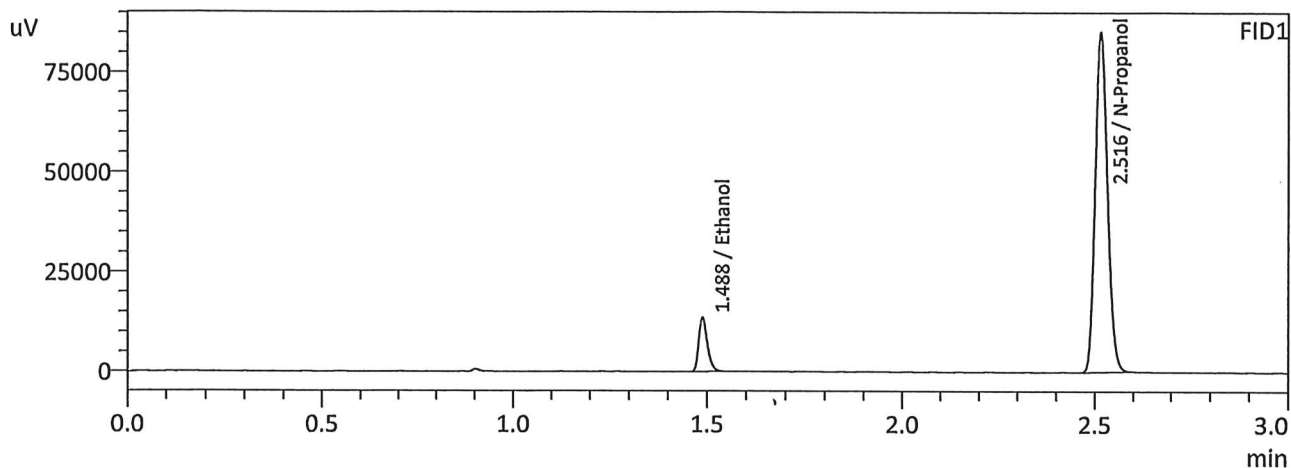
Meridian Blood Alcohol Analysis Batch Table

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	ALCOHOL_230227.gcm
2	0.100	1:Standard	2	ALCOHOL_230227.gcm
3	0.200	1:Standard	3	ALCOHOL_230227.gcm
4	0.300	1:Standard	4	ALCOHOL_230227.gcm
5	0.500	1:Standard	5	ALCOHOL_230227.gcm
6	INT STD BLK	0:Unknown	0	ALCOHOL_230227.gcm

W

Sample Name : 0.050
 Laboratory : Meridian
 Injection Date : 2/27/2023 10:50:11 AM
 Vial # : 1
 Method Filename : Default Project - ALCOHOL_230227.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

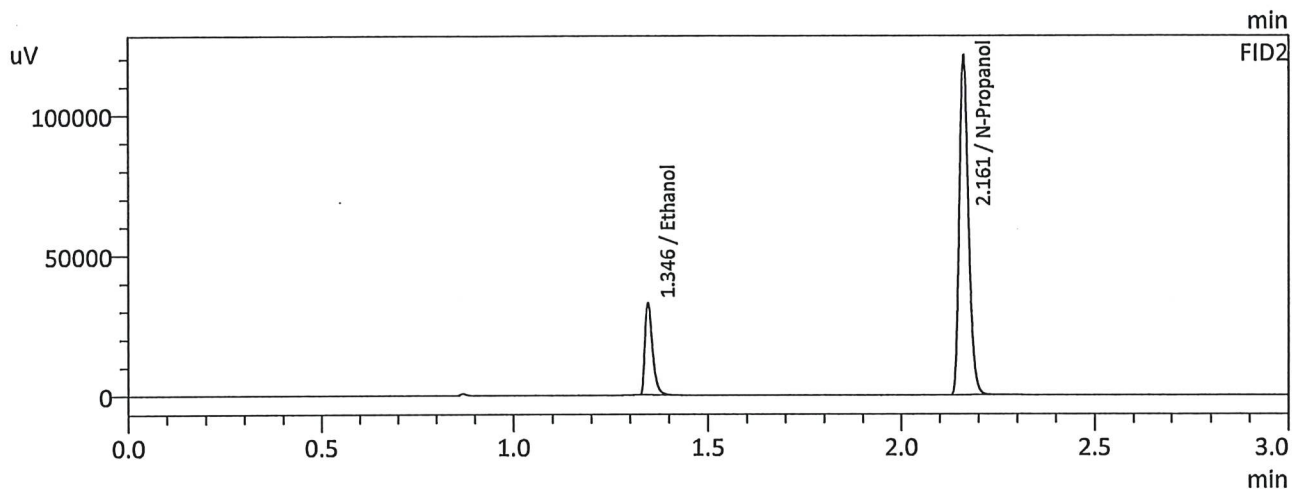
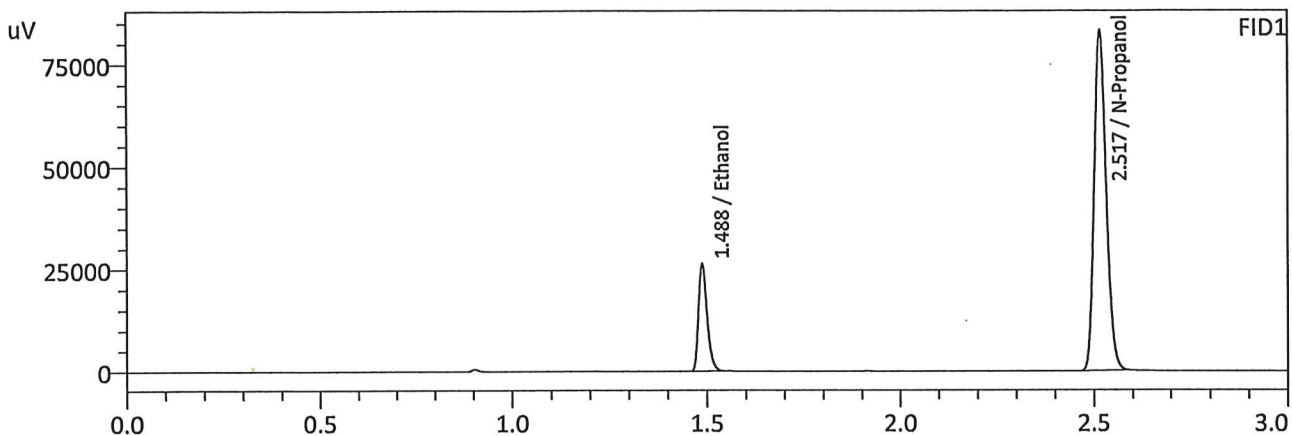
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0537	20773	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	189168	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0532	22317	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	205087	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : 0.100
 Laboratory : Meridian
 Injection Date : 2/27/2023 10:57:31 AM
 Vial # : 2
 Method Filename : Default Project - ALCOHOL_230227.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

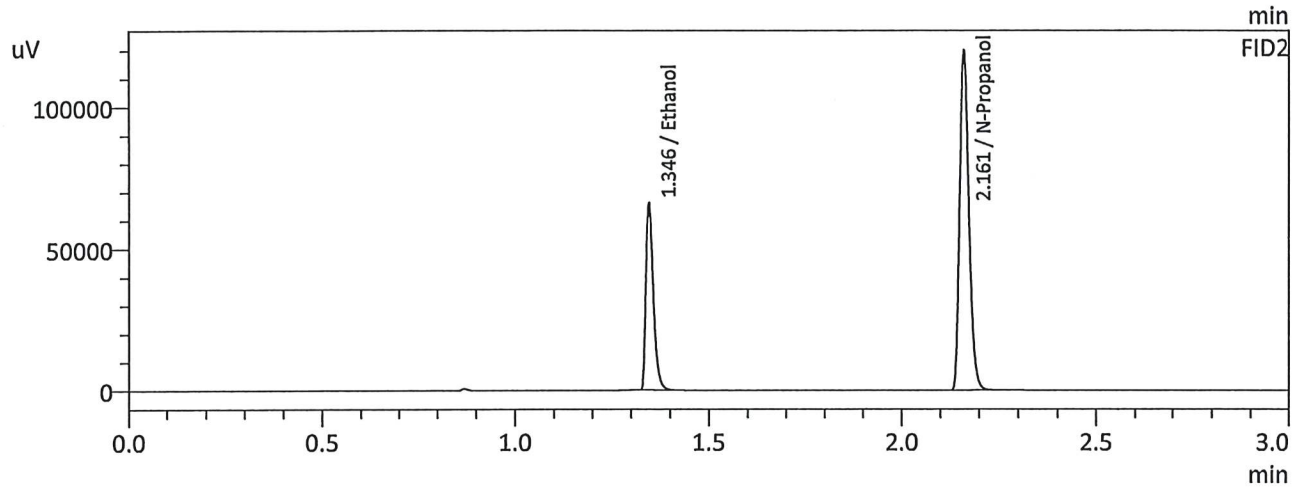
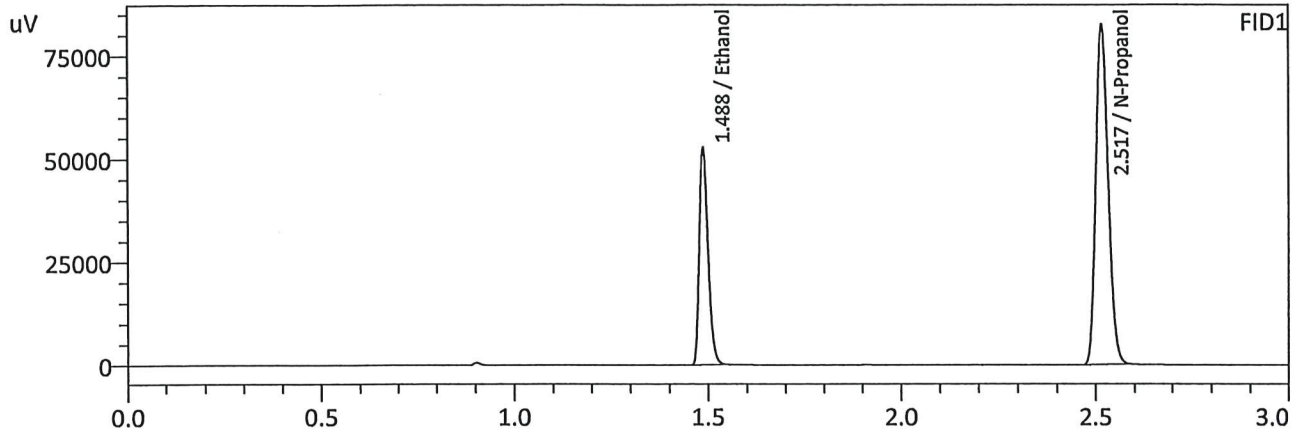
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1004	40339	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	184764	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1008	43917	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	200347	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : 0.200
 Laboratory : Meridian
 Injection Date : 2/27/2023 11:04:51 AM
 Vial # : 3
 Method Filename : Default Project - ALCOHOL_230227.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

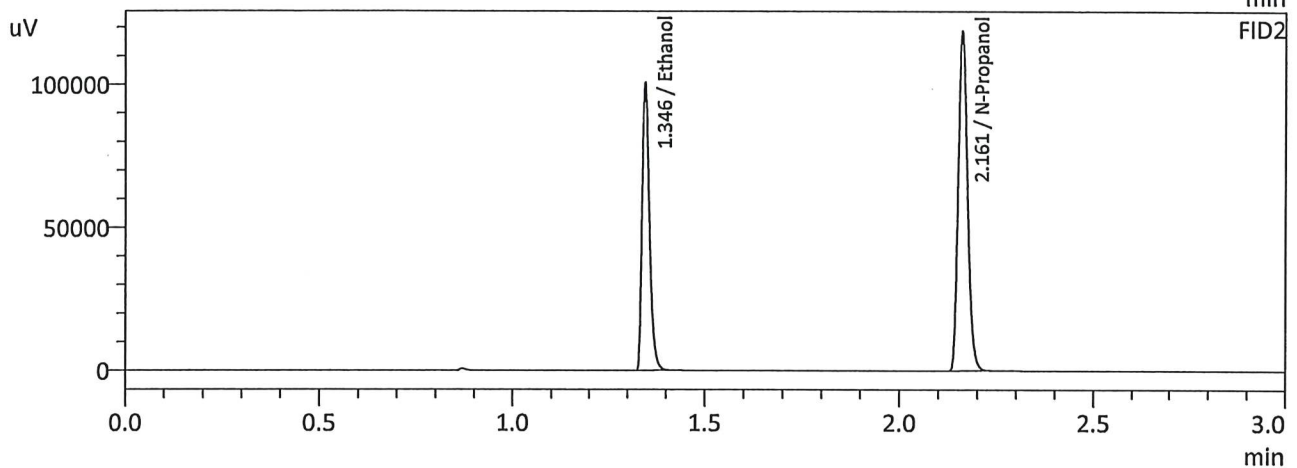
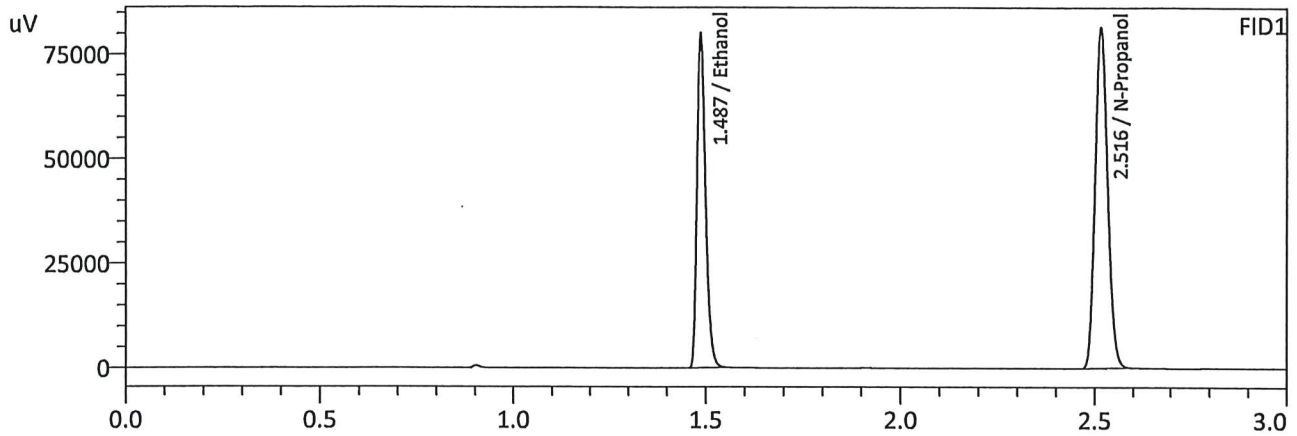
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1958	80674	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	183423	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1962	87627	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	198737	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : 0.300
 Laboratory : Meridian
 Injection Date : 2/27/2023 11:13:42 AM
 Vial # : 4
 Method Filename : Default Project - ALCOHOL_230227.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

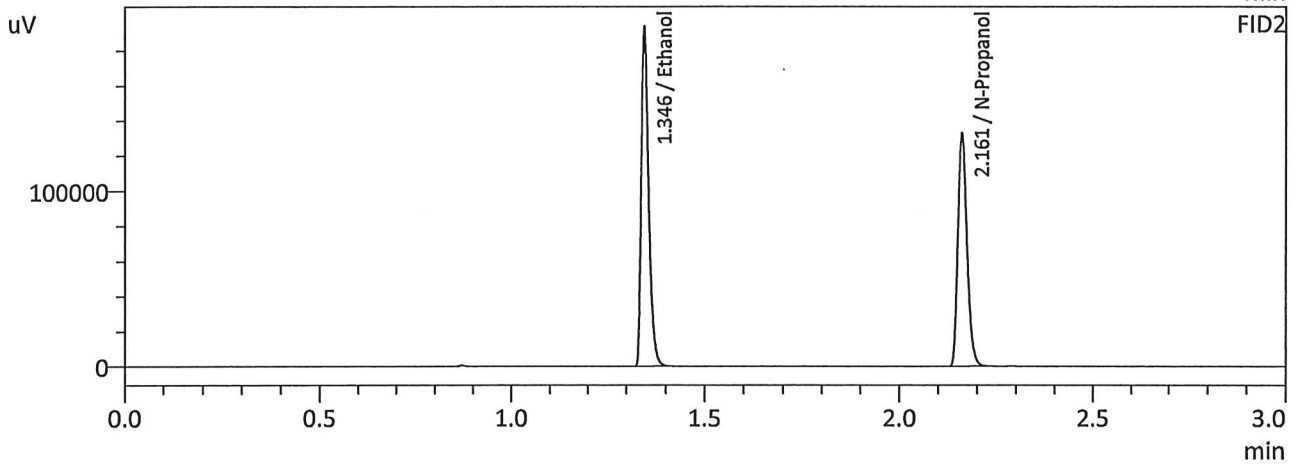
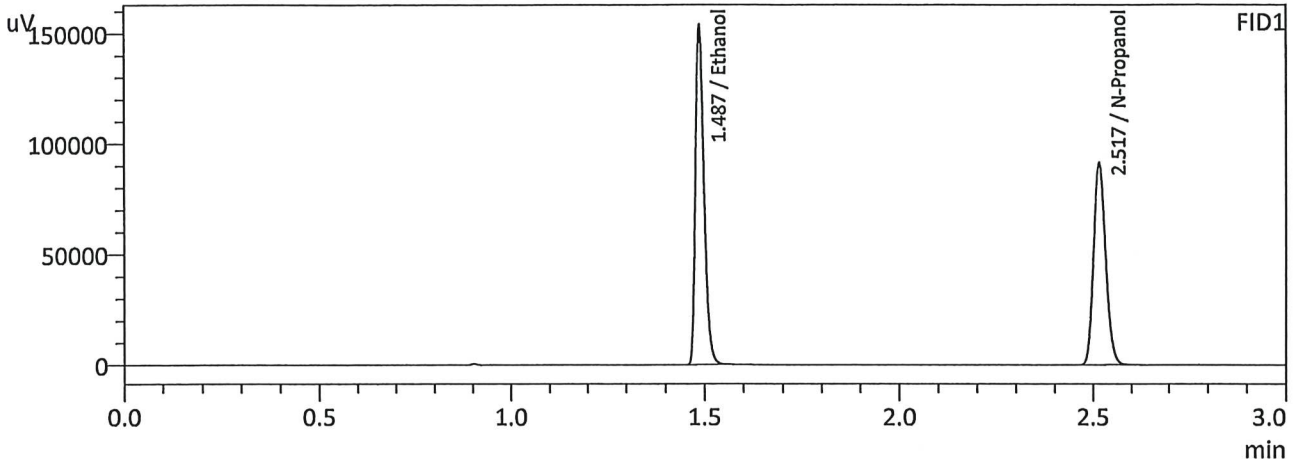
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2967	122311	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	181389	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2965	132496	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	196642	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : 0.500
 Laboratory : Meridian
 Injection Date : 2/27/2023 11:22:25 AM
 Vial # : 5
 Method Filename : Default Project - ALCOHOL_230227.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

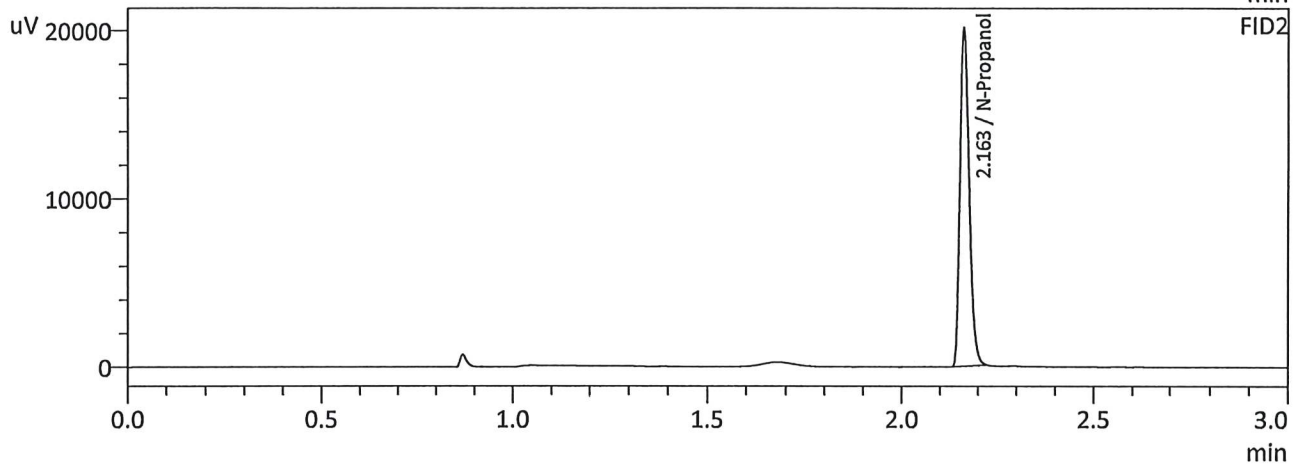
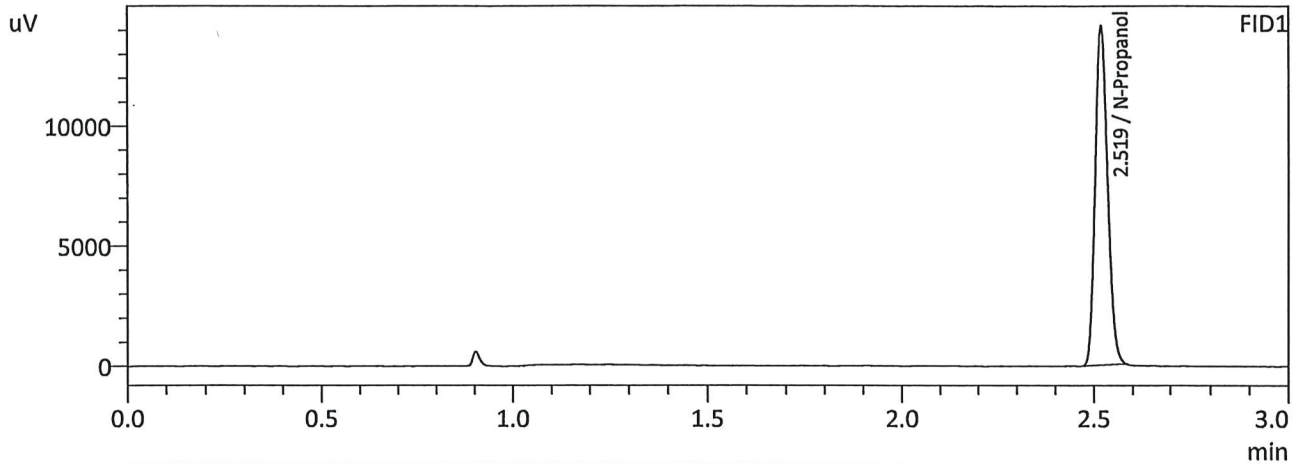
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.5031	234334	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	203101	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.5030	253759	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	220011	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : INT STD BLK
 Laboratory : Meridian
 Injection Date : 2/27/2023 11:29:24 AM
 Vial # : 6
 Method Filename : Default Project - ALCOHOL_230227.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

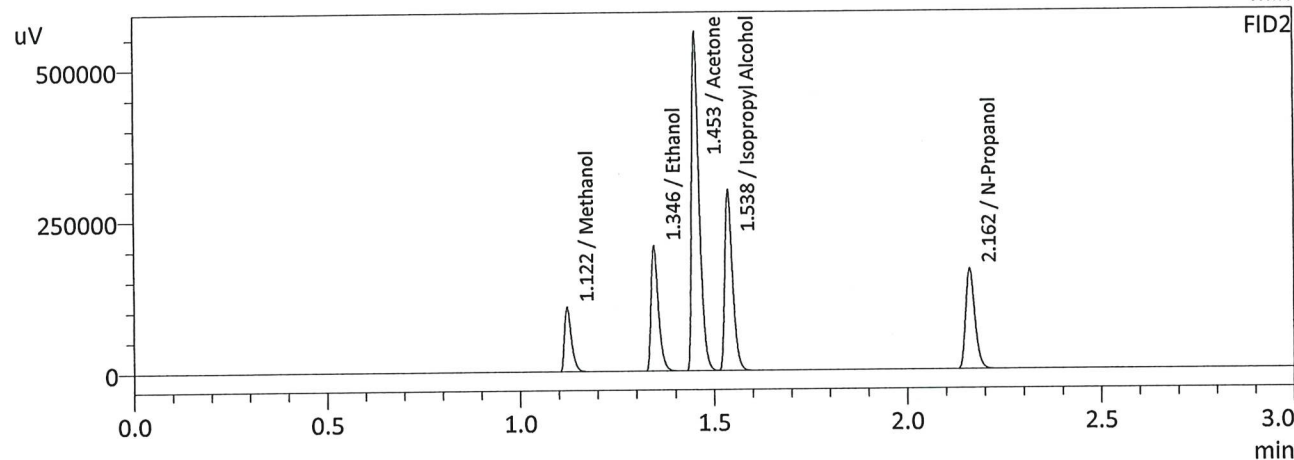
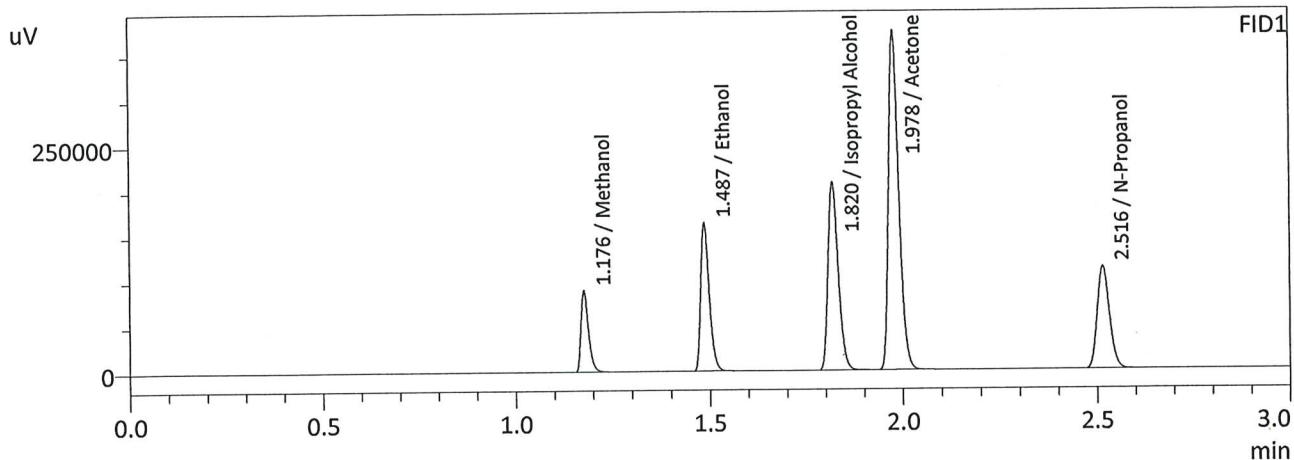
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	31670	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	33903	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : MIXED VOLATILES FN 06041902
 Laboratory : Meridian
 Injection Date : 3/9/2023 11:42:31 AM
 Vial # : 2
 Method Filename : Default Project - ALCOHOL_230227.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	0.0000	121691	g/100cc
Ethanol	0.4355	250320	g/100cc
Isopropyl Alcohol	0.0000	382661	g/100cc
Acetone	0.0000	693134	g/100cc
N-Propanol	0.0000	251117	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	0.0000	131957	g/100cc
Ethanol	0.4361	270809	g/100cc
Acetone	0.0000	750928	g/100cc
Isopropyl Alcohol	0.0000	413905	g/100cc
N-Propanol	0.0000	271367	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

VOLATILES DETERMINATION CASEFILE WORKSHEET

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: 0.08 QA		Analysis Date(s): 3/9/2023 12:06:12 PM(-07:00)				
	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0794	0.0788	0.0006	0.0791	0.0020	0.0801
(g/100cc)	0.0815	0.0808	0.0007	0.0811		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

Refer To Instrument Method: ALCOHOL_230227.gcm

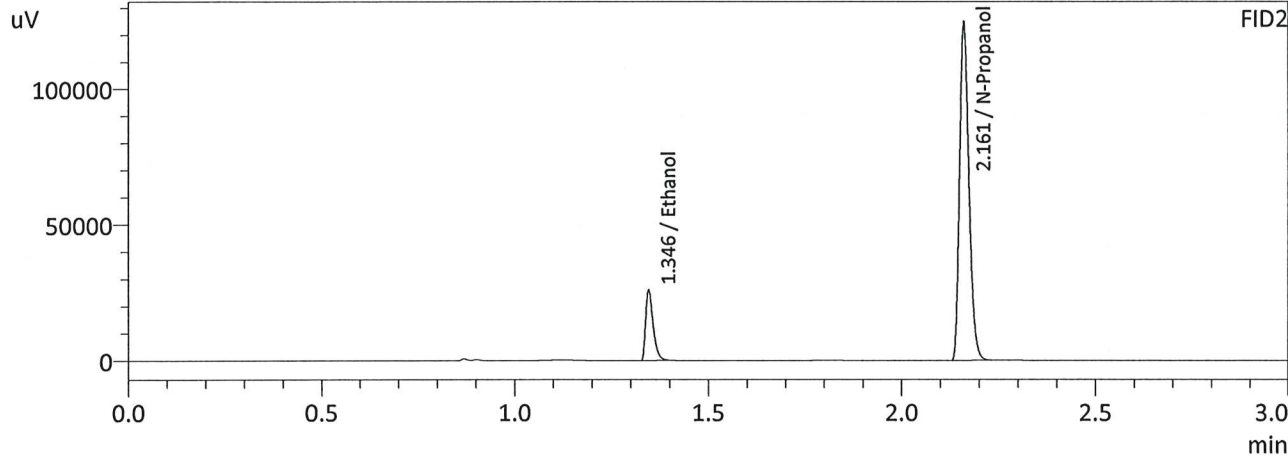
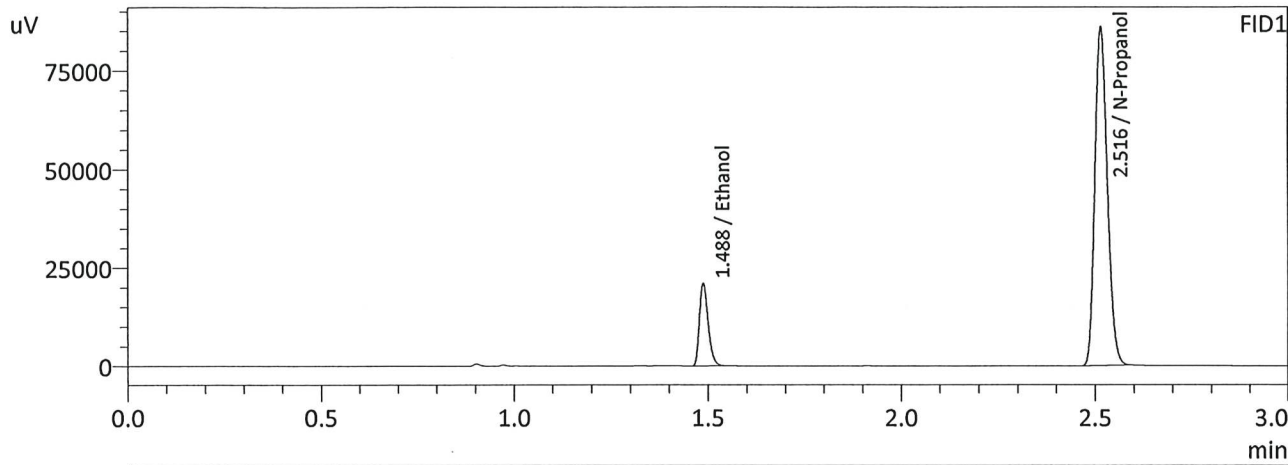
Reporting of Results	Uncertainty of Measurements (UM%): 5.00%		
Overall Mean (g/100cc)	Low	High	5 % of Mean
0.080	0.076	0.084	0.004

Reported Results	
0.080	

Calibration and control data are stored centrally.

W

Sample Name : 0.08 QA
 Laboratory : Meridian
 Injection Date : 3/9/2023 12:06:12 PM
 Vial # : 5
 Method Filename : Default Project - ALCOHOL_230227.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

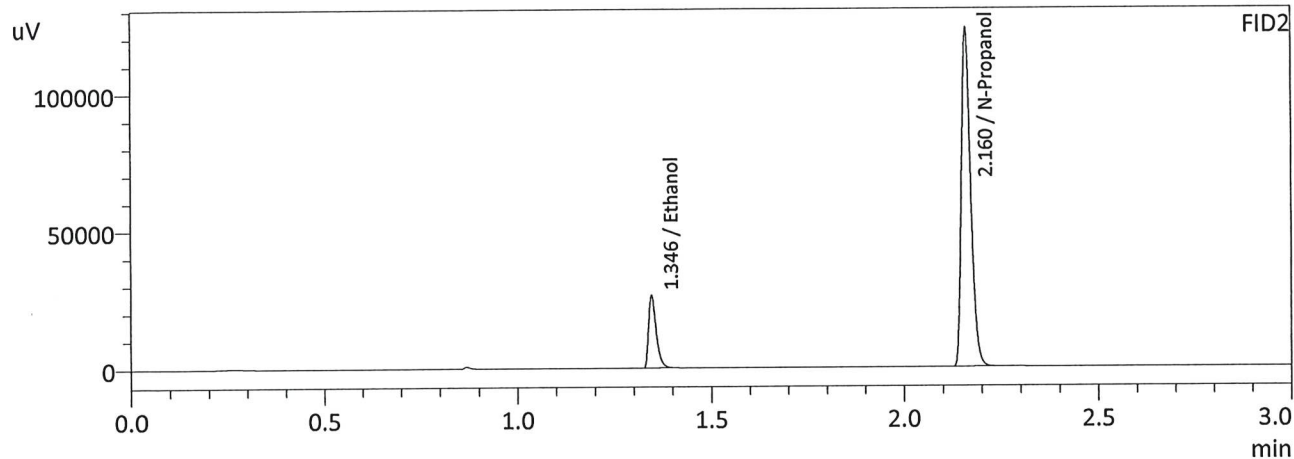
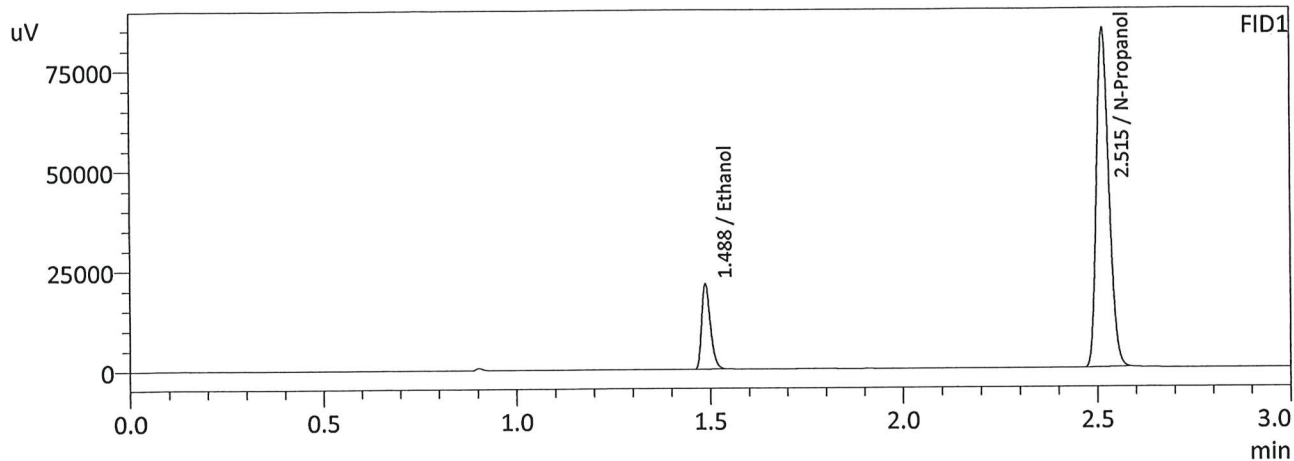
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0794	32354	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	190981	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0788	34856	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	207188	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : 0.08 QA-B
 Laboratory : Meridian
 Injection Date : 3/9/2023 12:14:36 PM
 Vial # : 6
 Method Filename : Default Project - ALCOHOL_230227.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0815	32795	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	188244	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0808	35322	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	204242	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

VOLATILES DETERMINATION CASEFILE WORKSHEET

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: QC-1-1

Analysis Date(s): 3/9/2023 11:49:53 AM(-07:00)

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0785	0.0780	0.0005	0.0782	0.0018	0.0791
(g/100cc)	0.0803	0.0798	0.0005	0.0800		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

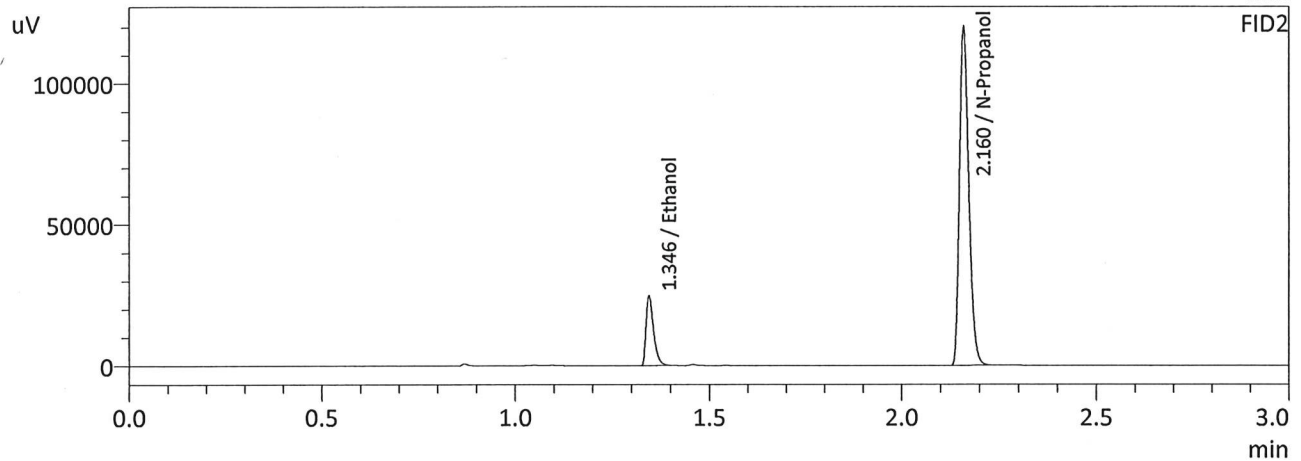
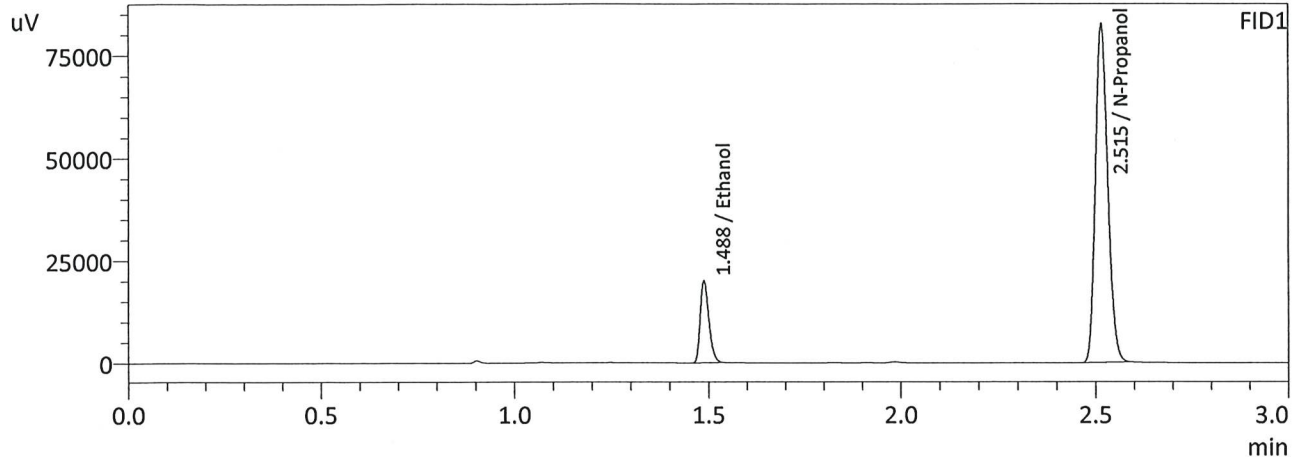
Refer To Instrument Method: ALCOHOL_230227.gcm

Reporting of Results	Uncertainty of Measurements (UM%): 5.00%		
Overall Mean (g/100cc)	Low	High	5 % of Mean
0.079	0.075	0.083	0.004

Reported Results	
0.079	

Calibration and control data are stored centrally.

Sample Name : QC-1-1
 Laboratory : Meridian
 Injection Date : 3/9/2023 11:49:53 AM
 Vial # : 3
 Method Filename : Default Project - ALCOHOL_230227.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

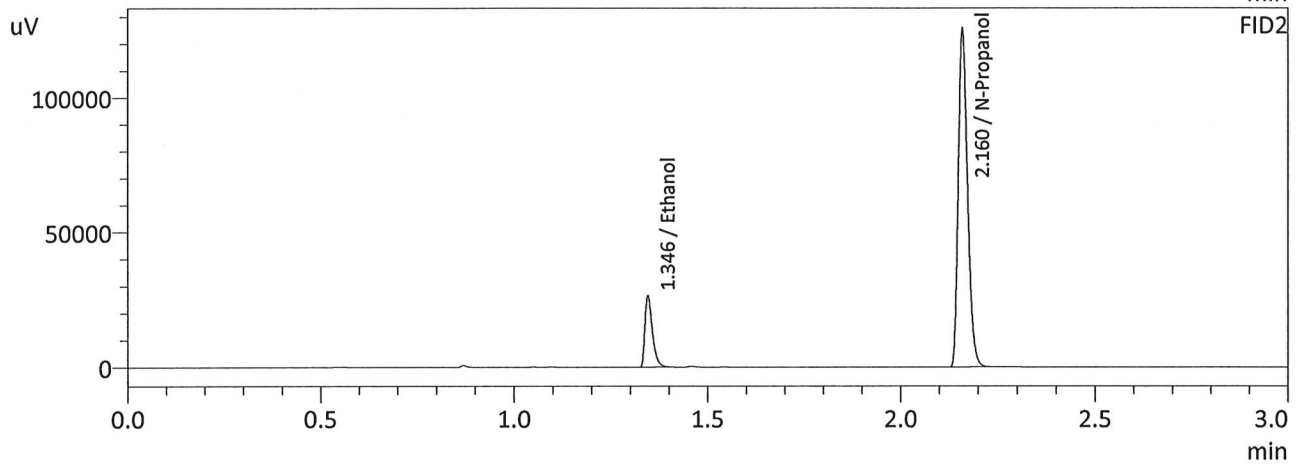
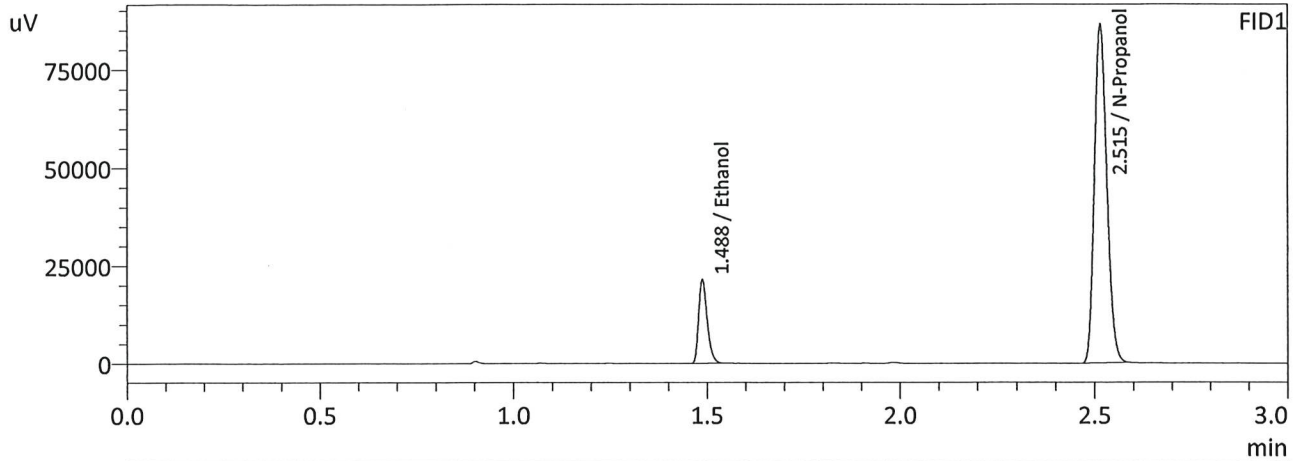
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0785	30774	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	183771	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0780	33138	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	199360	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : QC-1-1-B
 Laboratory : Meridian
 Injection Date : 3/9/2023 11:58:40 AM
 Vial # : 4
 Method Filename : Default Project - ALCOHOL_230227.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0803	32975	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	192165	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0798	35518	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	208408	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

VOLATILES DETERMINATION CASEFILE WORKSHEET

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: QC-1-2			Analysis Date(s): 3/9/2023 5:51:16 PM(-07:00)			
	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0826	0.0820	0.0006	0.0823	0.0009	0.0818
(g/100cc)	0.0817	0.0812	0.0005	0.0814		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

Refer To Instrument Method: ALCOHOL_230227.gcm

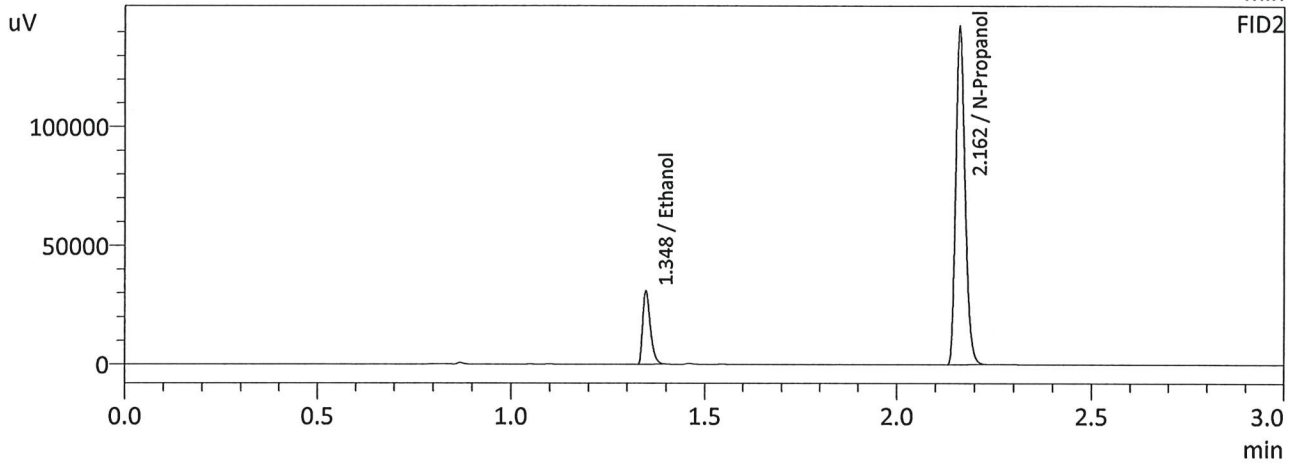
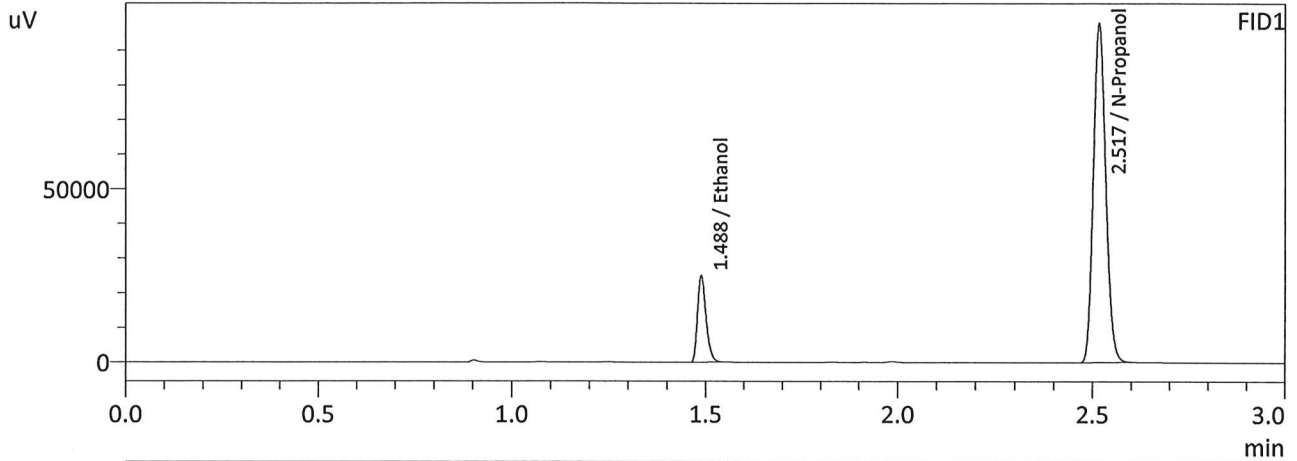
Reporting of Results	Uncertainty of Measurements (UM%): 5.00%		
Overall Mean (g/100cc)	Low	High	5 % of Mean
0.081	0.076	0.086	0.005

Reported Results	
0.081	

Calibration and control data are stored centrally.

W

Sample Name : QC-1-2
 Laboratory : Meridian
 Injection Date : 3/9/2023 5:51:16 PM
 Vial # : 47
 Method Filename : Default Project - ALCOHOL_230227.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

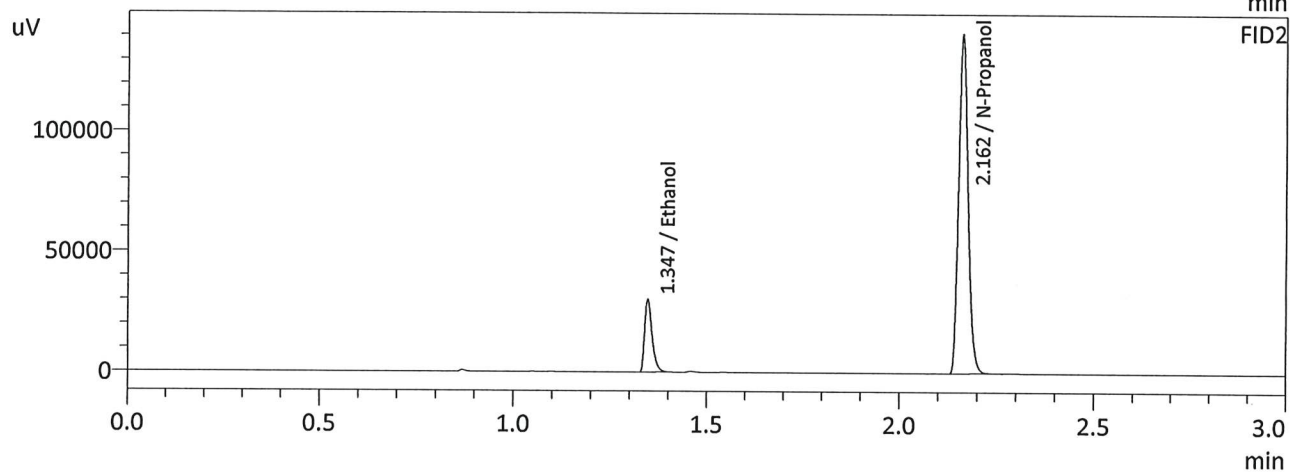
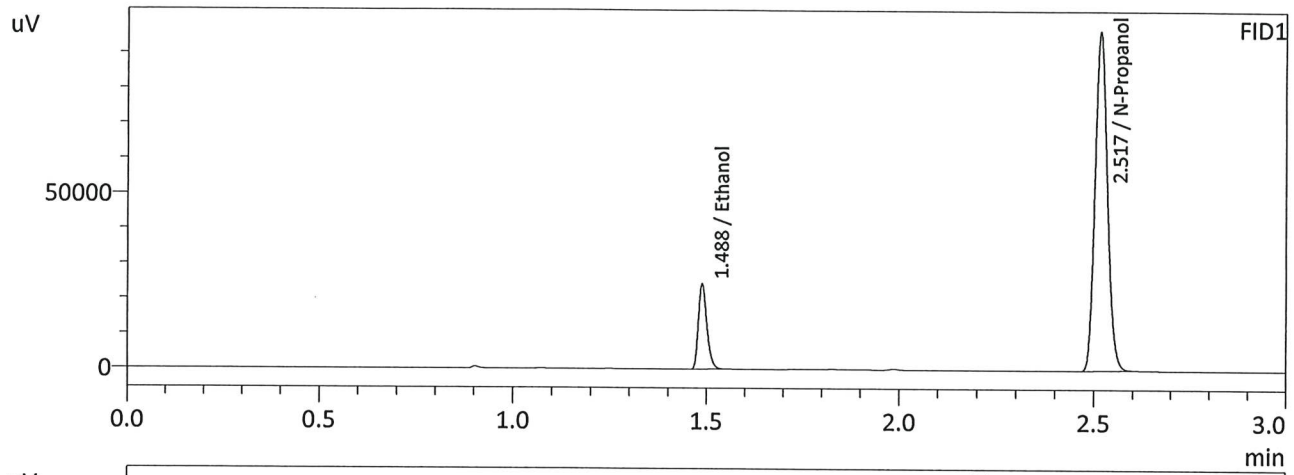
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0826	38526	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	217834	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0820	41570	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	236578	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : QC-1-2-B
 Laboratory : Meridian
 Injection Date : 3/9/2023 6:00:42 PM
 Vial # : 48
 Method Filename : Default Project - ALCOHOL_230227.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0817	37617	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	215080	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0812	40591	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	233624	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

VOLATILES DETERMINATION CASEFILE WORKSHEET

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: QC-2-1			Analysis Date(s): 3/9/2023 2:51:00 PM(-07:00)			
	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.2032	0.2028	0.0004	0.2030	0.0035	0.2047
(g/100cc)	0.2066	0.2064	0.0002	0.2065		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

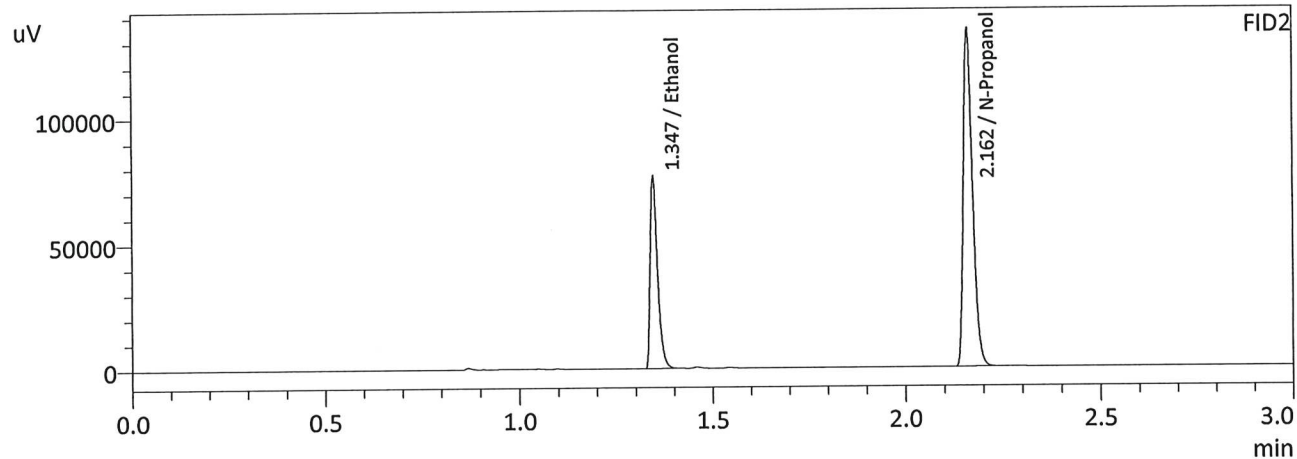
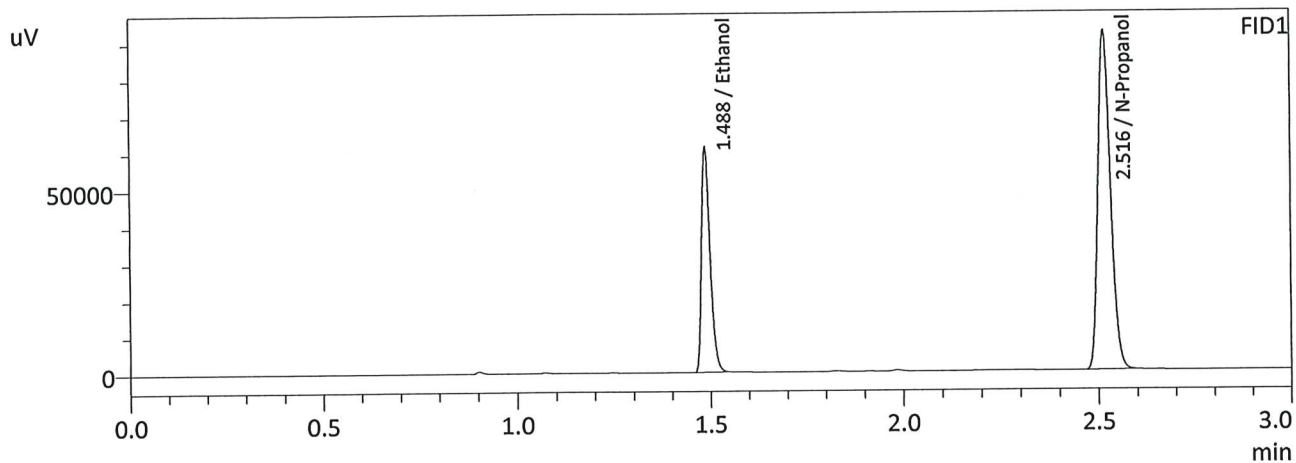
Refer To Instrument Method: ALCOHOL_230227.gcm

Reporting of Results	Uncertainty of Measurements (UM%): 5.00%		
Overall Mean (g/100cc)	Low	High	5 % of Mean
0.204	0.193	0.215	0.011

Reported Results	
0.204	

Calibration and control data are stored centrally.

Sample Name : QC-2-1
 Laboratory : Meridian
 Injection Date : 3/9/2023 2:51:00 PM
 Vial # : 25
 Method Filename : Default Project - ALCOHOL_230227.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

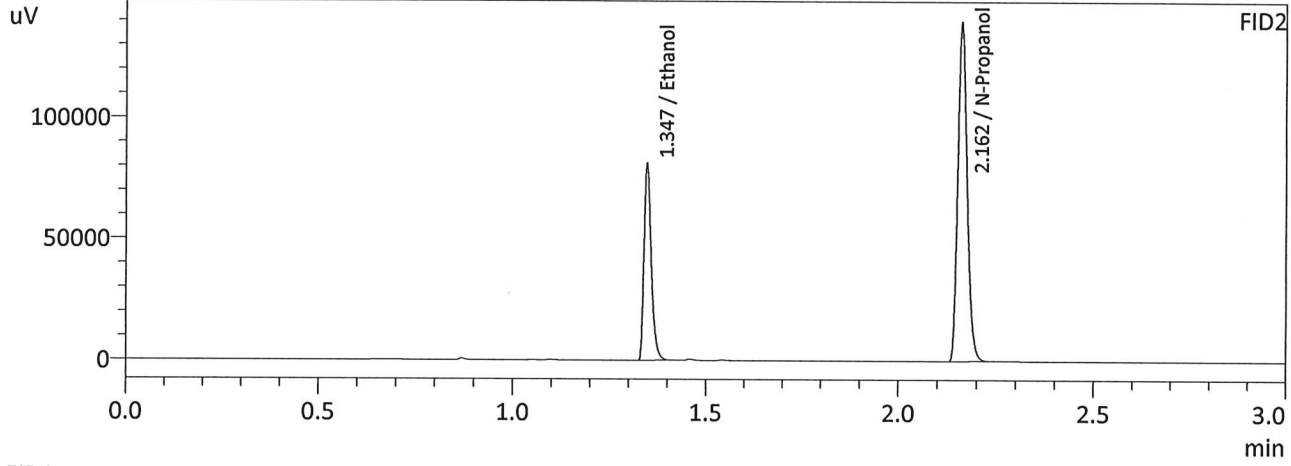
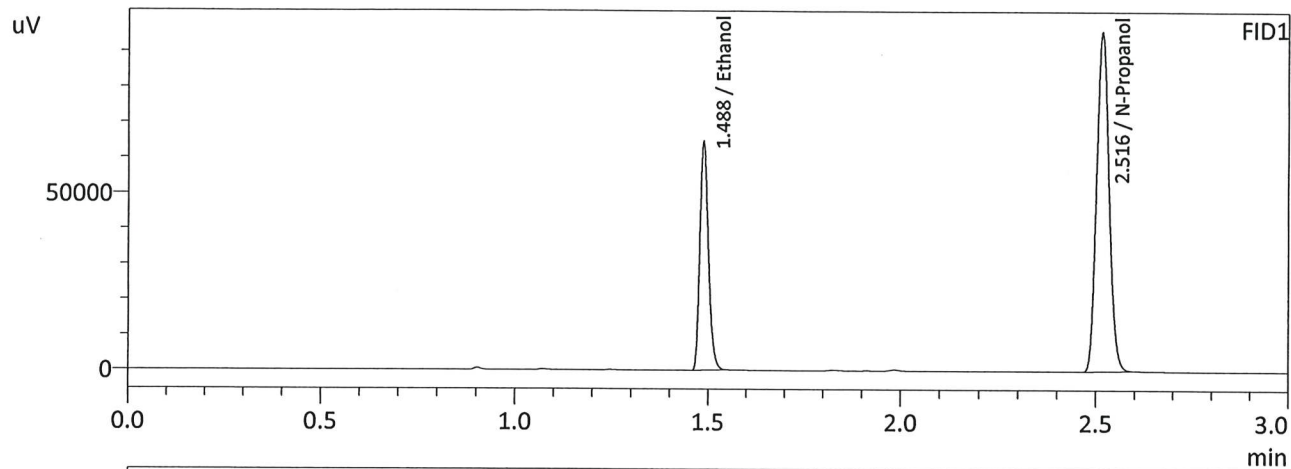
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2032	93864	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	205390	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2028	101677	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	222893	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : QC-2-1-B
 Laboratory : Meridian
 Injection Date : 3/9/2023 2:58:59 PM
 Vial # : 26
 Method Filename : Default Project - ALCOHOL_230227.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

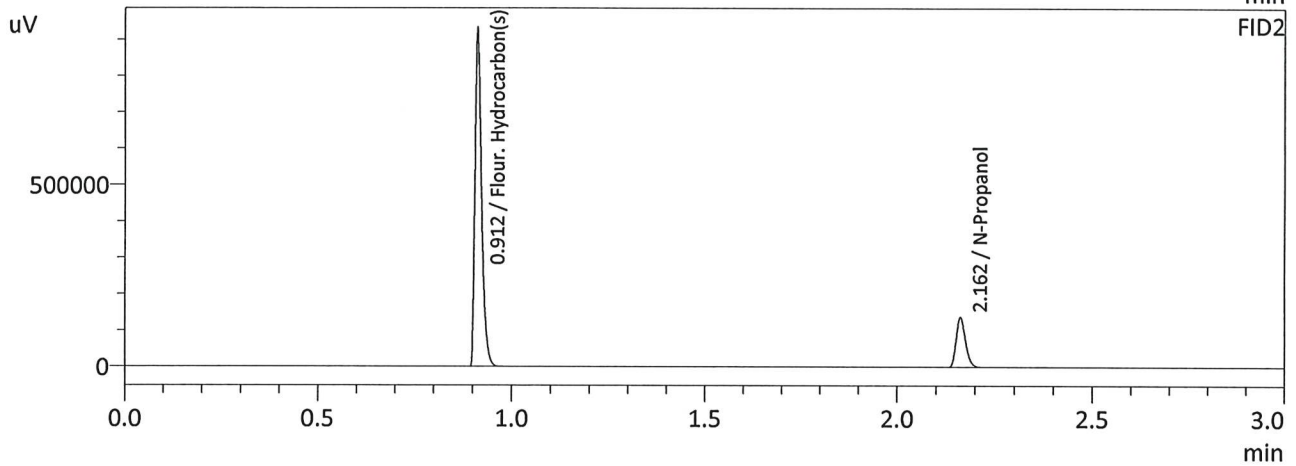
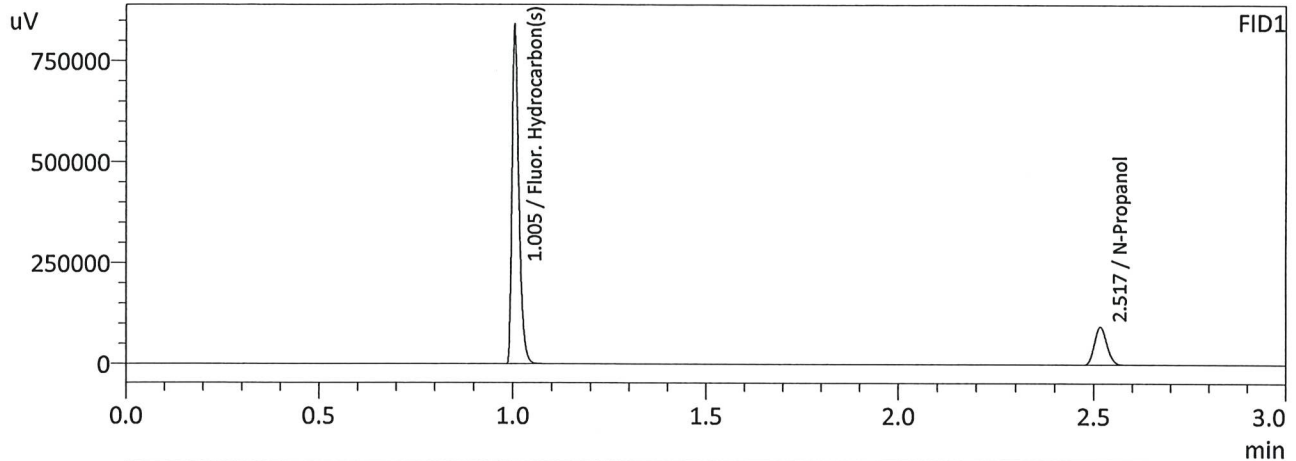
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2066	99282	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	213513	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2064	107669	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	231754	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : DFE 1119140M
 Laboratory : Meridian
 Injection Date : 3/9/2023 6:32:57 PM
 Vial # : 52
 Method Filename : Default Project - ALCOHOL_230227.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

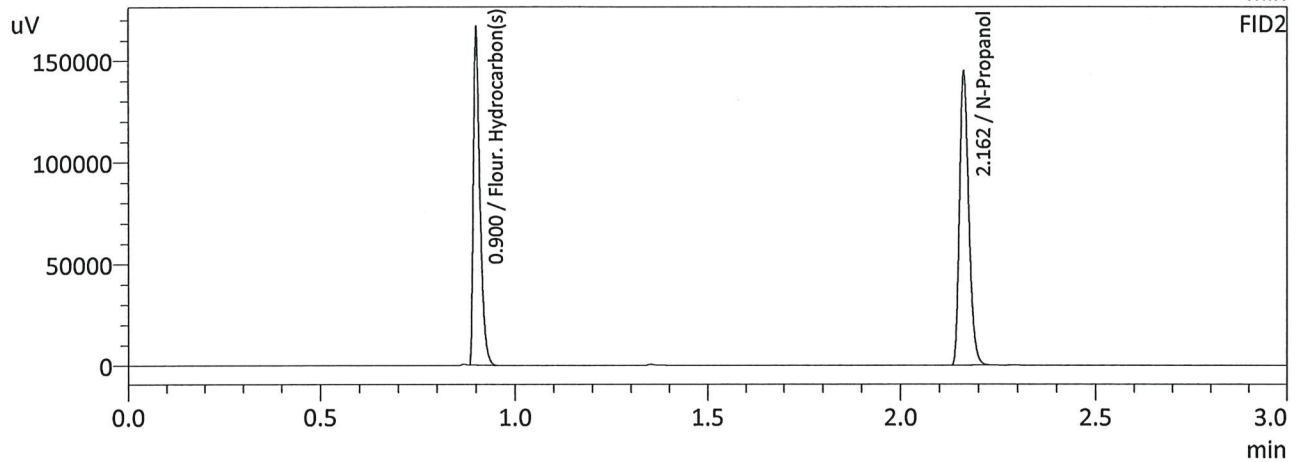
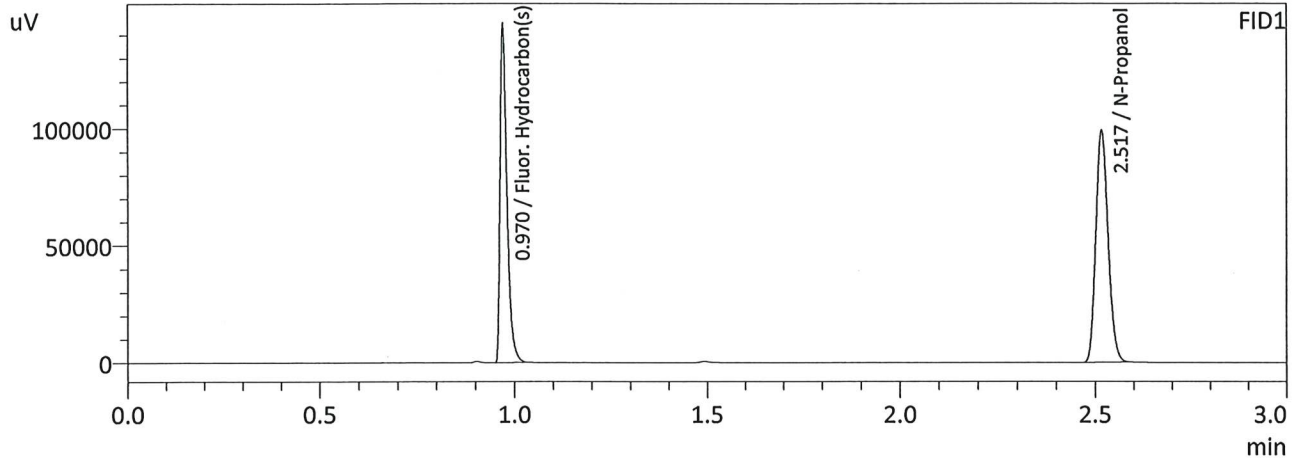
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	210140	g/100cc
Fluor. Hydrocarbon(s)	0.0000	1003366	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	228356	g/100cc
Fluor. Hydrocarbon(s)	0.0000	1079306	g/100cc

W

Sample Name : TFE 111914
 Laboratory : Meridian
 Injection Date : 3/9/2023 6:50:28 PM
 Vial # : 54
 Method Filename : Default Project - ALCOHOL_230227.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

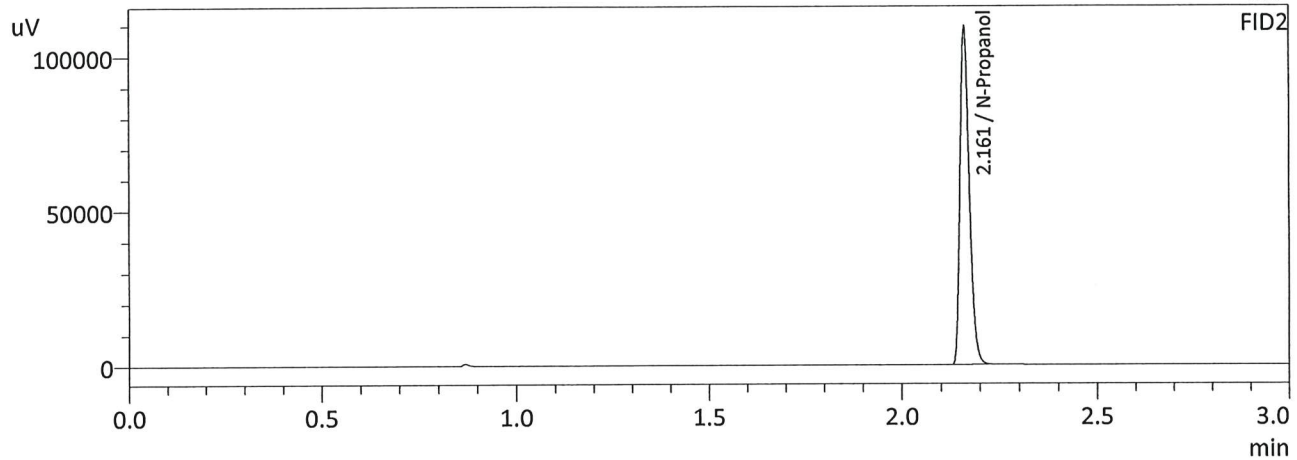
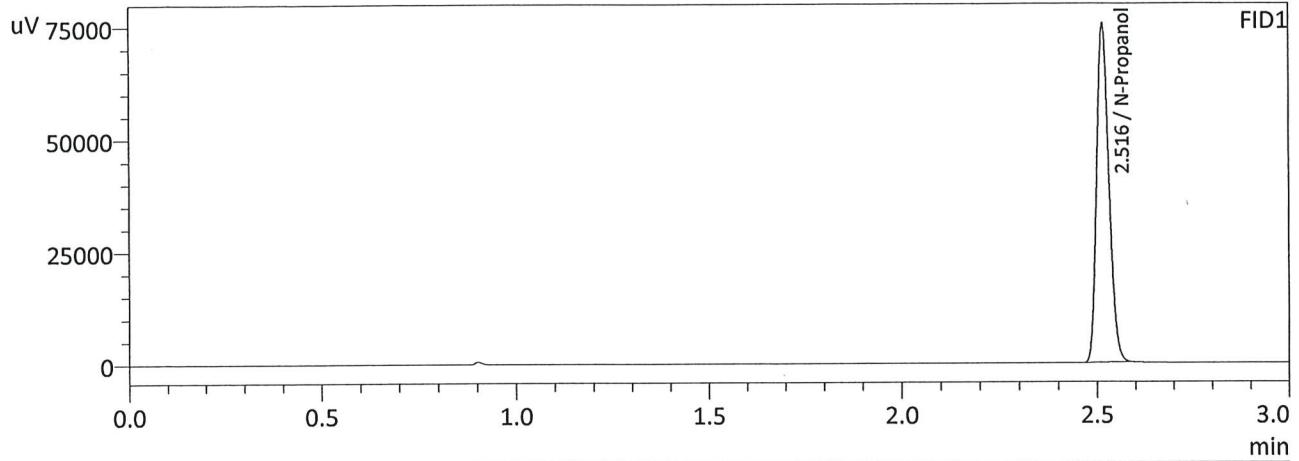
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	220457	g/100cc
Fluor. Hydrocarbon(s)	0.0000	177364	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	239534	g/100cc
Fluor. Hydrocarbon(s)	0.0000	193015	g/100cc

W

Sample Name : ISTD BLK 1
 Laboratory : Meridian
 Injection Date : 3/9/2023 11:35:11 AM
 Vial # : 1
 Method Filename : Default Project - ALCOHOL_230227.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

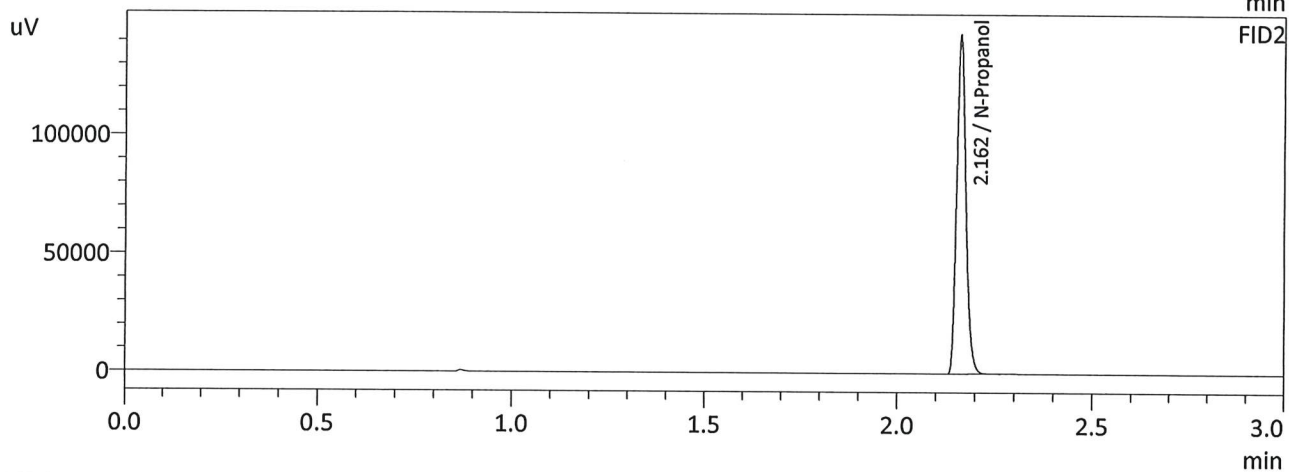
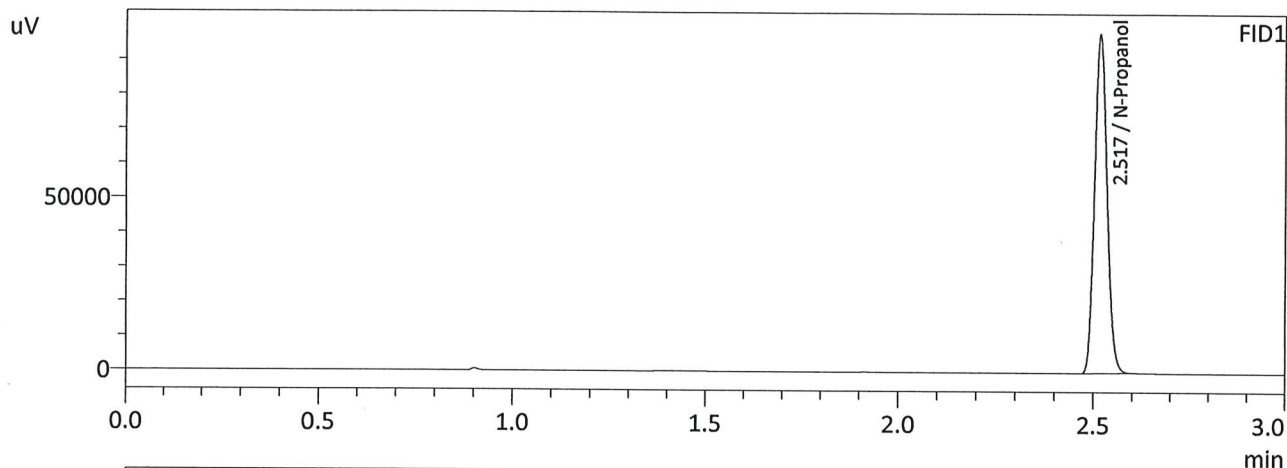
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	167657	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	181873	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : ISTD BLK 2
 Laboratory : Meridian
 Injection Date : 3/9/2023 6:25:37 PM
 Vial # : 51
 Method Filename : Default Project - ALCOHOL_230227.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

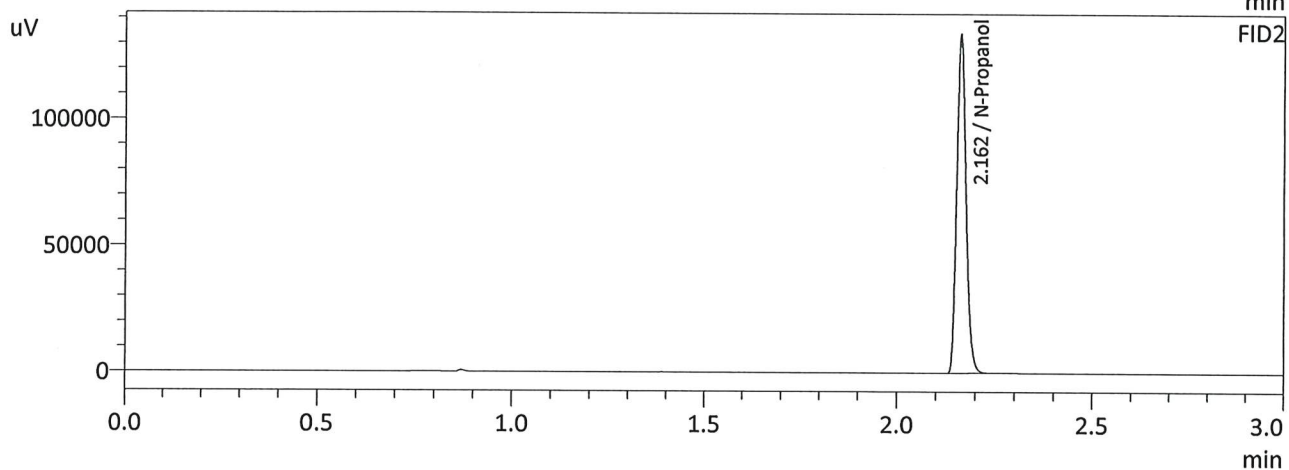
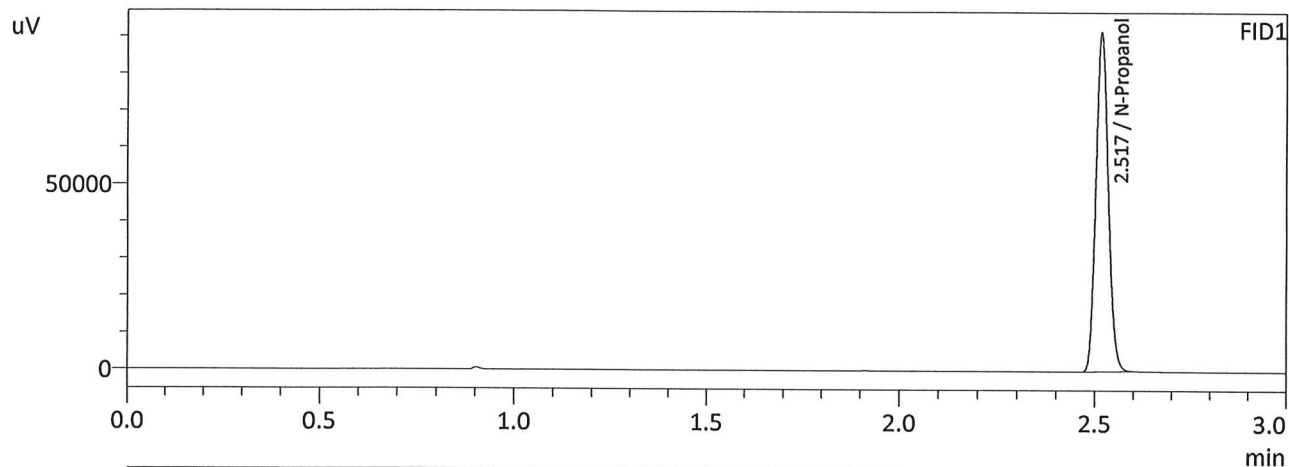
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	218275	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	237125	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : ISTD BLK 3
 Laboratory : Meridian
 Injection Date : 3/9/2023 6:40:50 PM
 Vial # : 53
 Method Filename : Default Project - ALCOHOL_230227.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

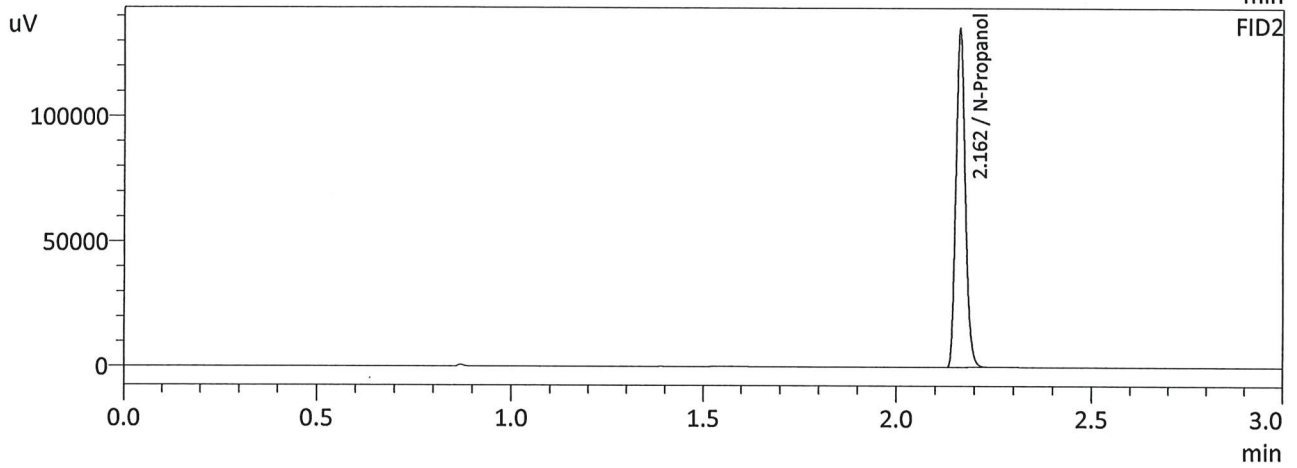
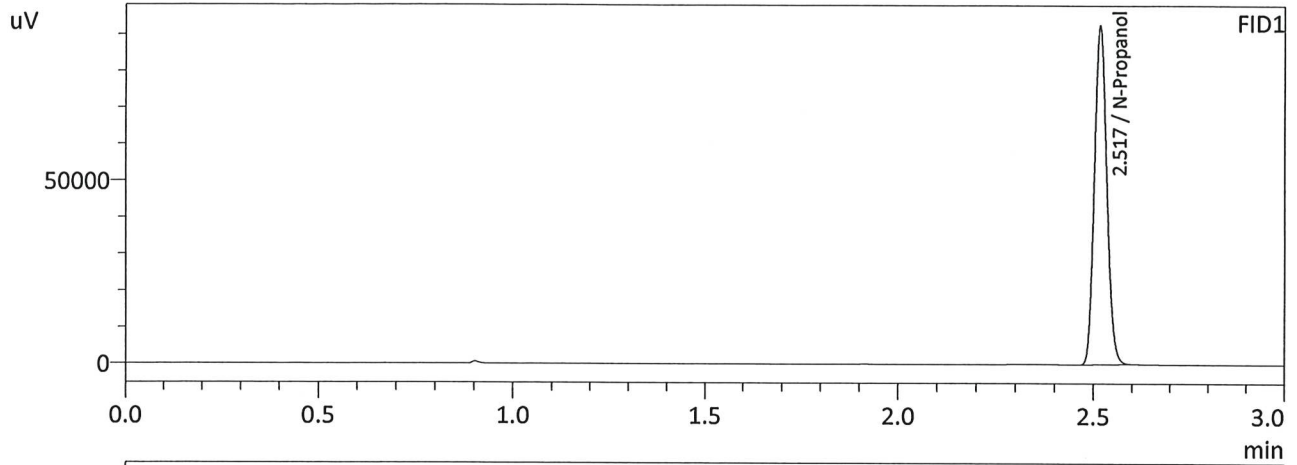
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	203990	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	221574	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : ISTD BLK 4
 Laboratory : Meridian
 Injection Date : 3/9/2023 6:57:35 PM
 Vial # : 55
 Method Filename : Default Project - ALCOHOL_230227.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	206299	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	224119	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W