

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): 10/16/23

Calibration Date: 10/04/23

Worklist #: 6528

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results	
Level 1	Feb-25	2101199	0.0808	0.0727-0.0889	0.0757 g/100cc	
					0.0784 g/100cc	
					g/100cc	
Level 2	Mar-26	2110181	0.2030	0.1827-0.2233	0.1982 g/100cc	
					0.2058 g/100cc	
					g/100cc	
Multi-Component mixture:		Exp:	10/31/2024	Lot #	FN06041902	
Curve Fit:			Column 1	0.99934	Column2	0.99929

Ethanol Calibration Reference Material

Calibrator level	Target Value	Acceptable Range	Column 1	Column 2	Precision	Mean
50	0.050	0.045 - 0.055	0.0494	0.0490	0.0004	0.0492
100	0.100	0.090 - 0.110	0.0989	0.0995	0.0006	0.0992
200	0.200	0.180 - 0.220	0.2064	0.2065	1E-04	0.2064
300	0.300	0.270 - 0.330	0.2937	0.2933	0.0004	0.2935
400	0.400	0.360 - 0.440			0	#DIV/0!
500	0.500	0.450 - 0.550	0.5014	0.5015	1E-04	0.5014

Aqueous Controls

Control level	Target Value	Acceptable Range	Overall Results
80	0.080	0.076 - 0.084	0.077 g/100cc

REVIEWED

By Jeremy Johnston at 9:44 am, Oct 17, 2023

JS

Revision: 5

Issue Date: 07/05/2022

Issuing Authority: Quality Manager

Internal Standard Monitoring Worksheet

Worklist #:	6528	Run Date(s):	10/16/23
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9/11/2023^{10/24/23 gg}

3/11/2024^{10/24/23 gg}

Internal Standard Solution:	Prep Date: 6/6/2023	Exp Date: 12/6/2023
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Nikka reviewed only the correction of internal standard used.

AB 10/24/23

Sample Name	Column 1 Value	Column 2 Value
0.080	187910	203639
0.080	185627	201190
QC1	190407	206184
QC1	192008	207826
QC1	221113	240324
QC1	216654	235356
QC1		
QC1		
QC2	208502	226395
QC2	208007	225738
QC2	218755	237387
QC2	231826	252680
QC2		
QC2		

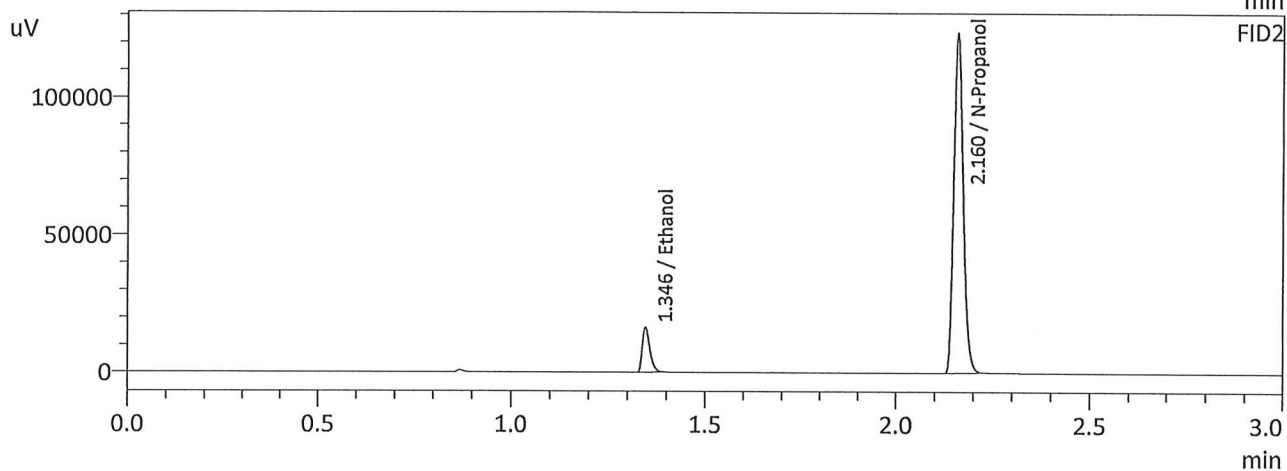
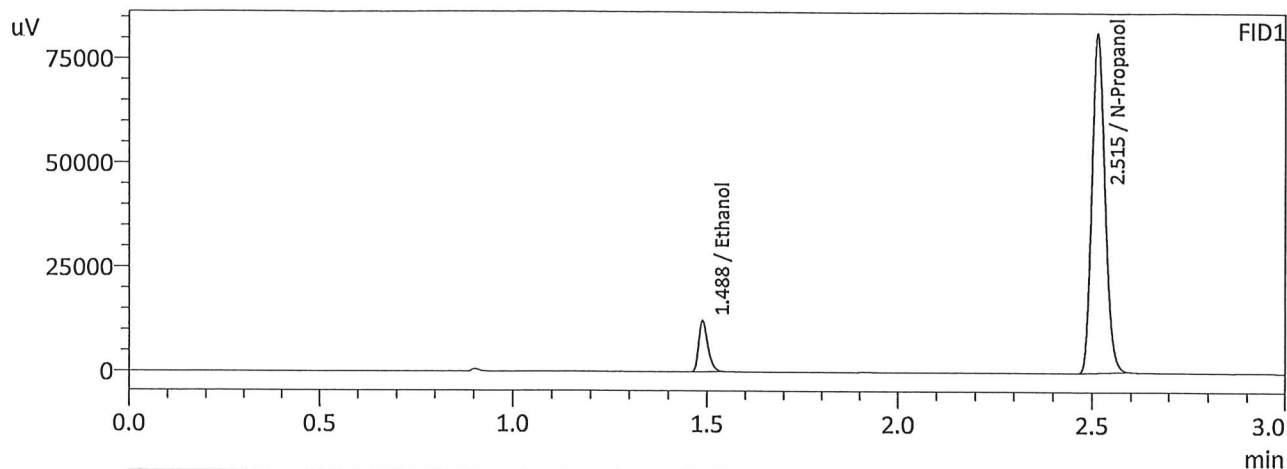
	Average	(-)20%	(+)20%
Column 1	206080.9	164864.7	247297.1
Column 2	223671.9	178937.5	268406.3

Worklist: 6528

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
M2023-4292	3	BCK	Alcohol Analysis	
M2023-4296	1	BCK	Alcohol Analysis	
M2023-4301	1	BCK	Alcohol Analysis	
M2023-4302	1	BCK	Alcohol Analysis	
M2023-4303	1	BCK	Alcohol Analysis	
M2023-4304	1	BLOOD	Alcohol Analysis	
M2023-4343	1	BCK	Alcohol Analysis	
M2023-4354	1	BCK	Alcohol Analysis	
M2023-4355	1	BCK	Alcohol Analysis	
M2023-4357	3	BCK	Alcohol Analysis	
M2023-4383	1	BCK	Alcohol Analysis	
M2023-4425	1	BCK	Alcohol Analysis	
M2023-4426	1	BCK	Alcohol Analysis	
M2023-4434	1	BCK	Alcohol Analysis	
M2023-4460	1	BCK	Alcohol Analysis	
M2023-4460	2	BCK	Alcohol Analysis	
M2023-4461	1	BCK	Alcohol Analysis	
M2023-4467	1	BCK	Alcohol Analysis	
P2023-3288	1	BCK	Alcohol Analysis	



Sample Name : 0.050
 Laboratory : Meridian
 Injection Date : 10/4/2023 11:38:03 AM
 Vial # : 1
 Method Filename : Default Project - ALCOHOL_231004.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

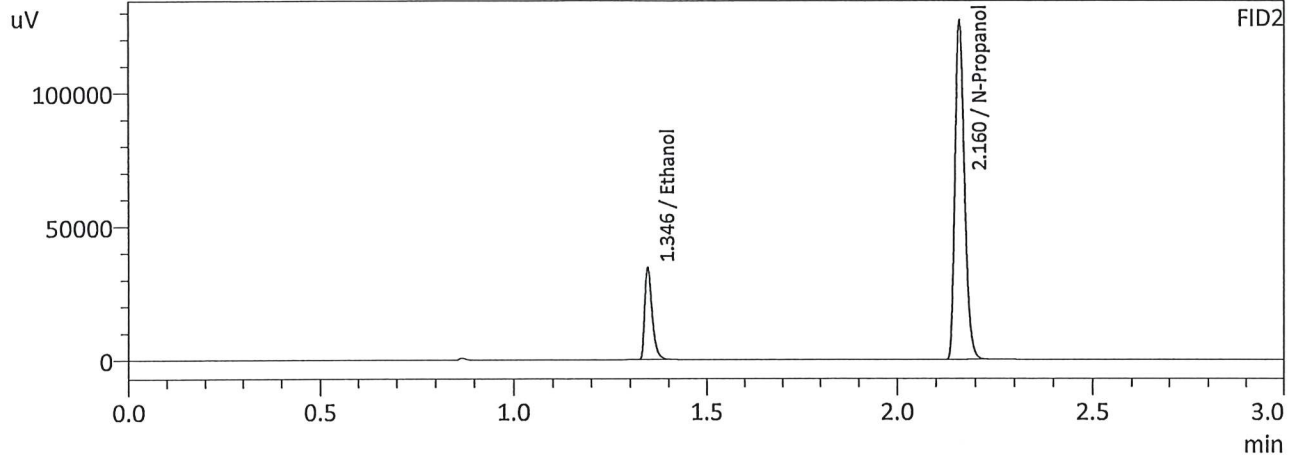
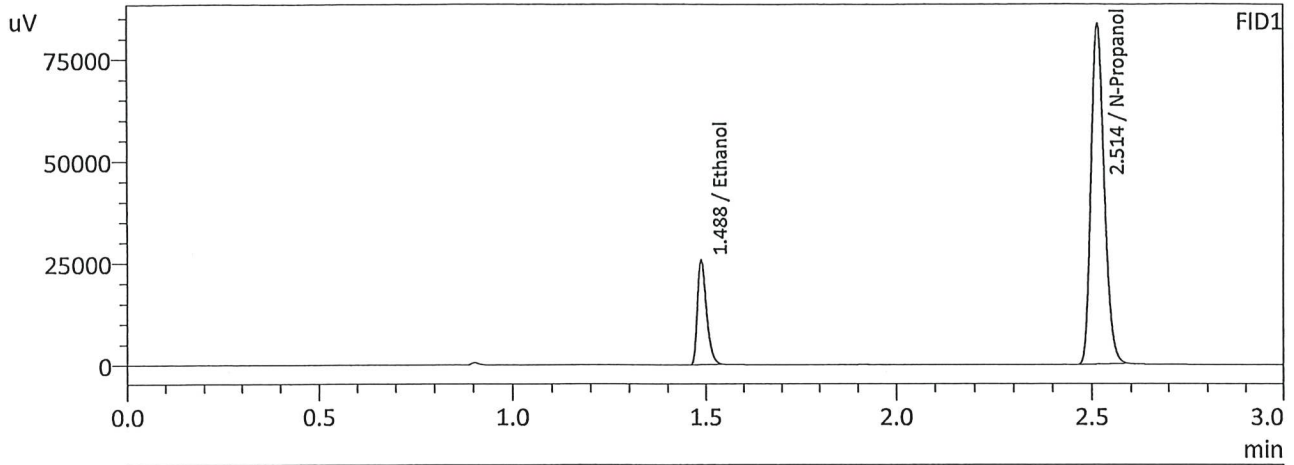
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0494	20420	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	189981	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0490	21917	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	205285	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : 0.100
 Laboratory : Meridian
 Injection Date : 10/4/2023 11:45:22 AM
 Vial # : 2
 Method Filename : Default Project - ALCOHOL_231004.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

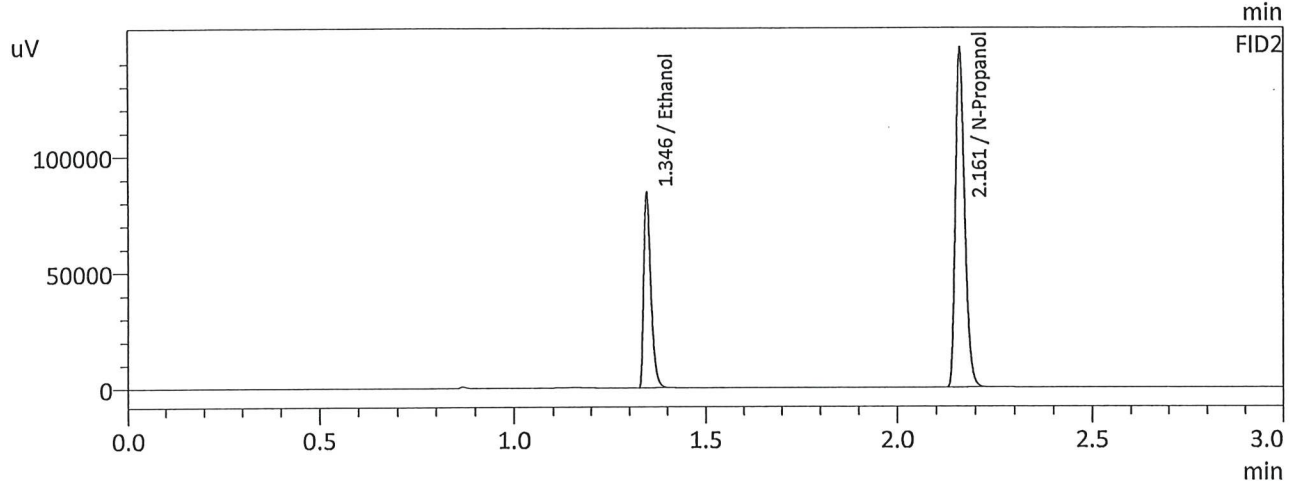
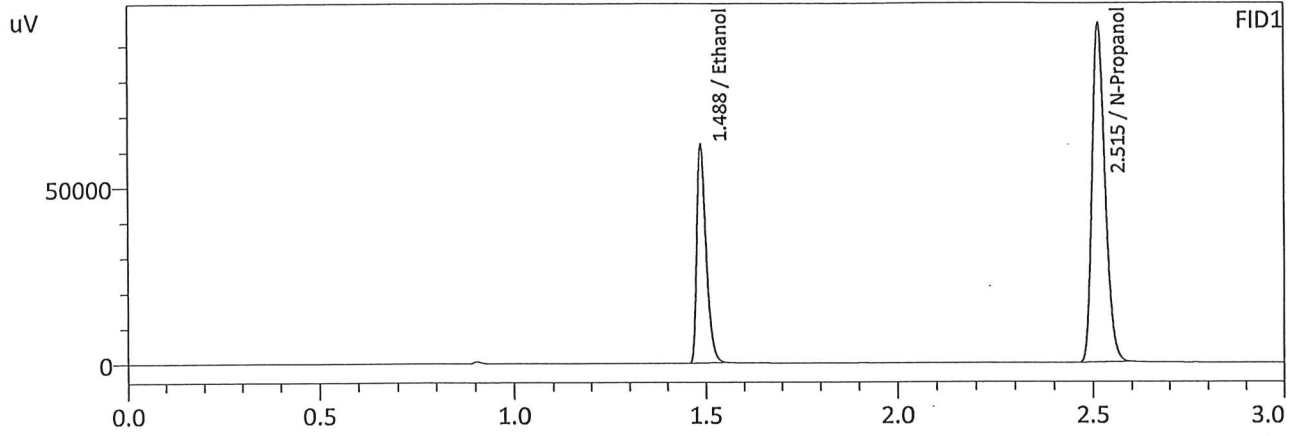
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0989	42410	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	194700	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0995	46269	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	210463	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : 0.200
 Laboratory : Meridian
 Injection Date : 10/4/2023 11:52:52 AM
 Vial # : 3
 Method Filename : Default Project - ALCOHOL_231004.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

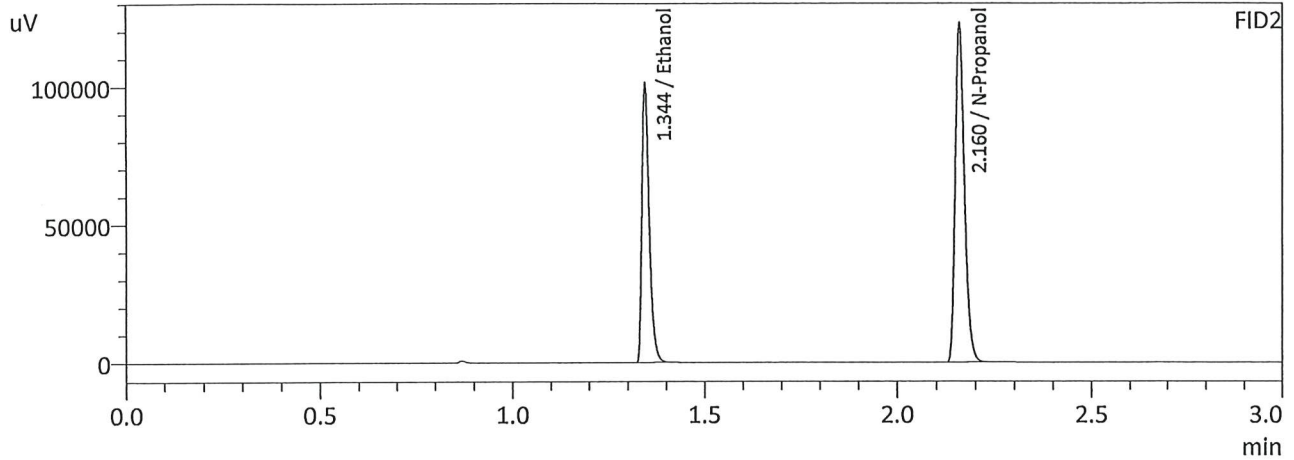
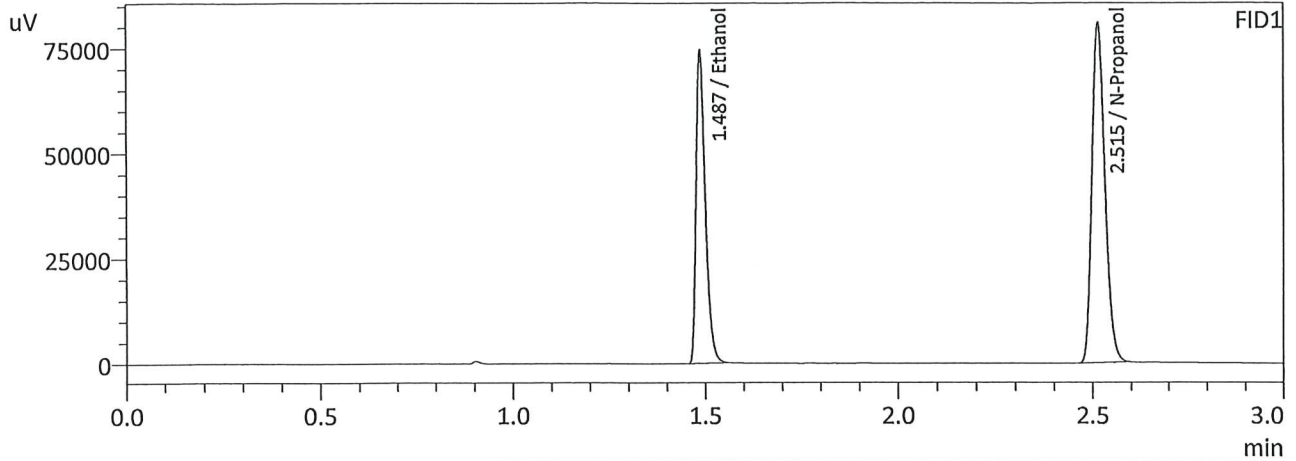
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2064	102492	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	223860	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2065	111334	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	242278	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : 0.300
 Laboratory : Meridian
 Injection Date : 10/4/2023 12:01:44 PM
 Vial # : 4
 Method Filename : Default Project - ALCOHOL_231004.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

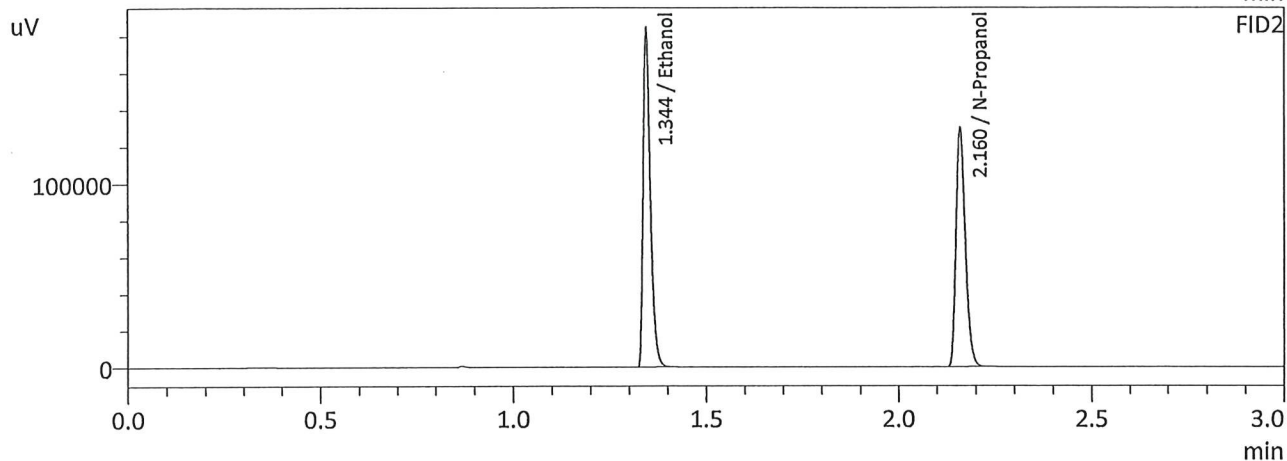
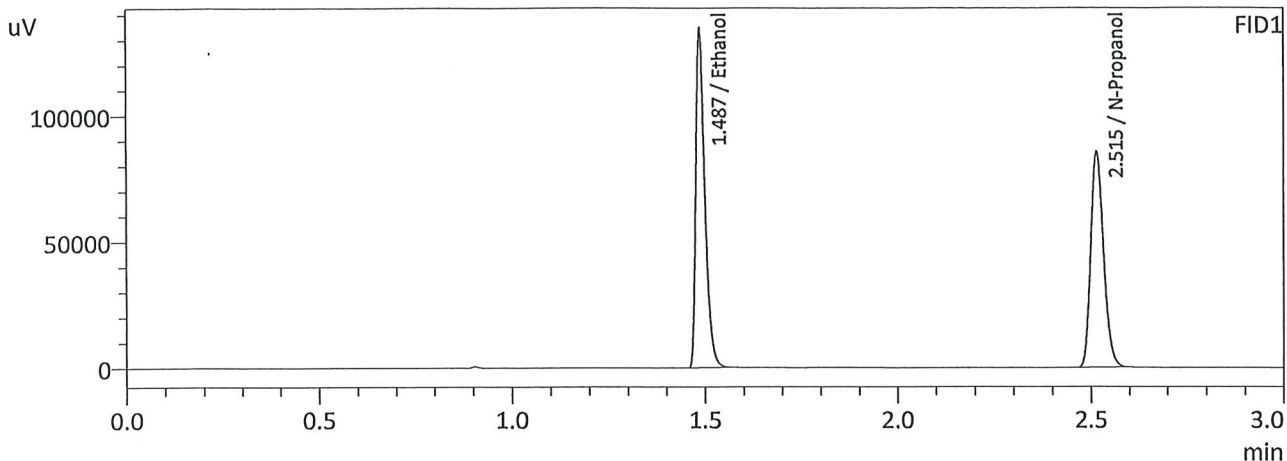
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2937	122923	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	188358	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2933	133315	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	203905	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : 0.500
 Laboratory : Meridian
 Injection Date : 10/4/2023 12:10:03 PM
 Vial # : 5
 Method Filename : Default Project - ALCOHOL_231004.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.5014	221904	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	198813	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

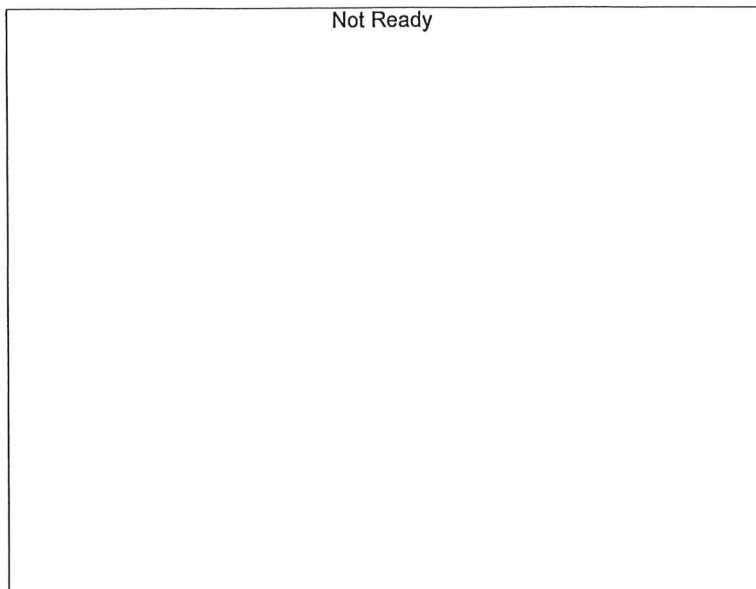
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.5015	241255	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	215364	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Calibration Table

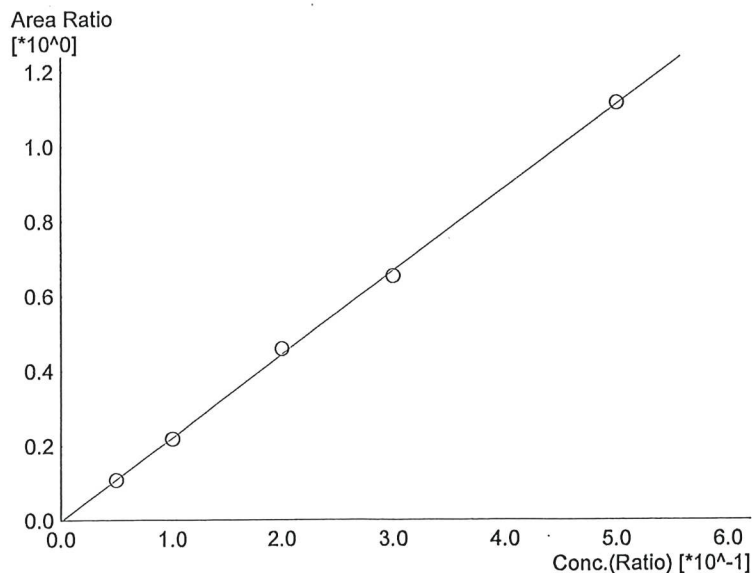
Laboratory : MERIDIAN
 Instrument Name : GC-BAC
 Instrument Serial # : C12595800409 / C12255750548

<<Data File>>
 Method File :Default Project - ALCOHOL_231004.gcm
 Batch File :Default Project - CALCURVE_231004GG.gcb
 Date Acquired :10/4/2023 12:10:03 PM
 Date Created :10/4/2023 12:04:48 PM
 Date Modified :10/4/2023 12:27:16 PM



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

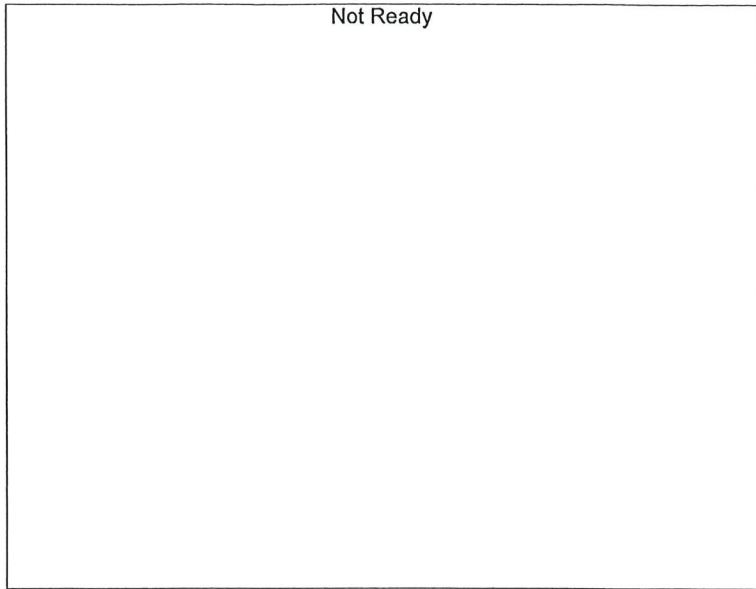
#	Conc.	Area	Std. Conc.
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Name : Ethanol
 Detector Name: FID1
 Function : $f(x)=2.23157*x-0.00288155$
 R² value= 0.9993396
 FitType: Linear
 ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
1	0.050	20420	0.0494
2	0.100	42410	0.0989
3	0.200	102492	0.2064
4	0.300	122923	0.2937
5	0.500	221904	0.5014

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

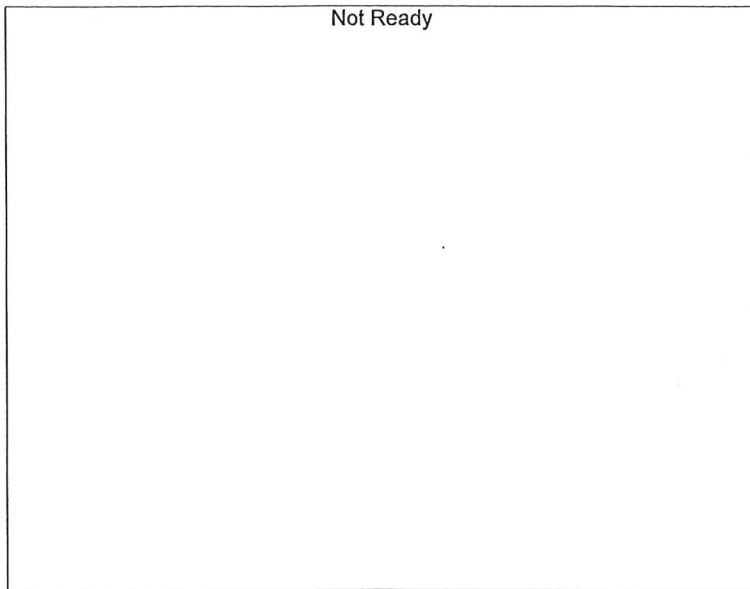
#	Conc.	Area	Std. Conc.
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Name : Fluor. Hydrocarbon(s)
Detector Name: FID1
Function : $f(x)=0*x+0$
R² value= 0
FitType: Linear
ZeroThrough: Not Through

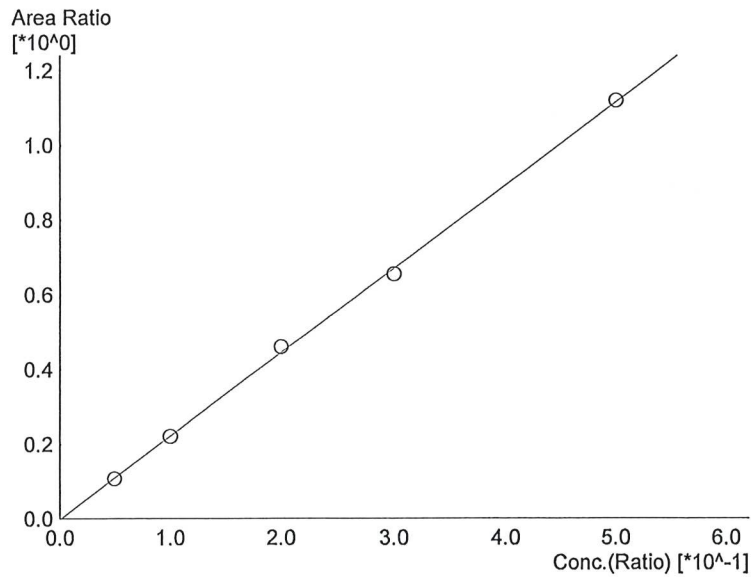
#	Conc.	Area	Std. Conc.
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W



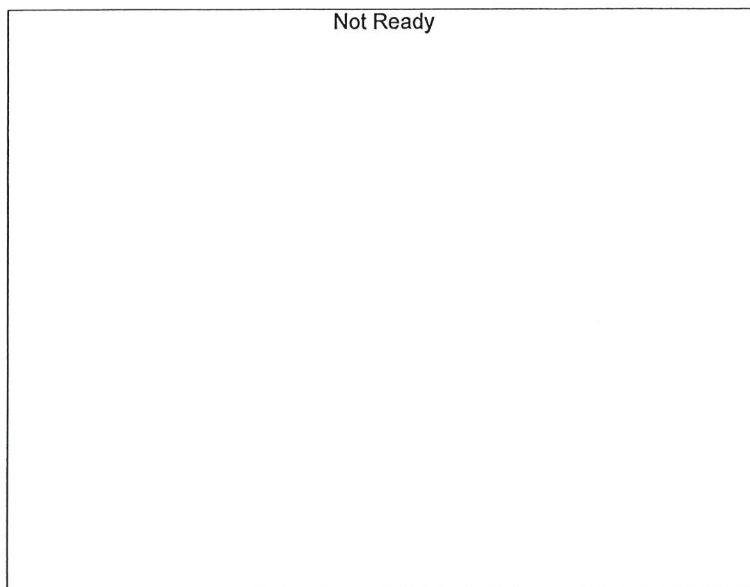
Name : Methanol
 Detector Name: FID2
 Function : $f(x)=0*x+0$
 R² value= 0
 FitType: Linear
 ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
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Name : Ethanol
 Detector Name: FID2
 Function : $f(x)=2.23939*x-0.00302705$
 R² value= 0.9992865
 FitType: Linear
 ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
1	0.050	21917	0.0490
2	0.100	46269	0.0995
3	0.200	111334	0.2065
4	0.300	133315	0.2933
5	0.500	241255	0.5015



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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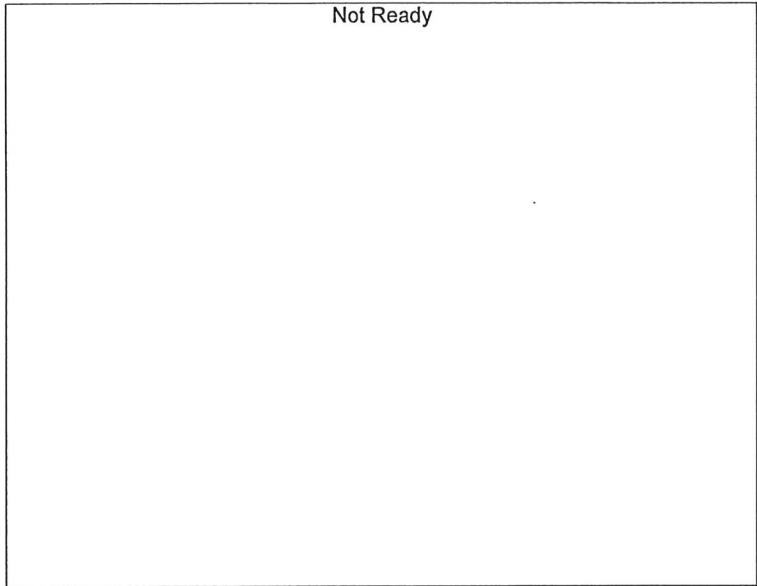
W



Not Ready

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

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



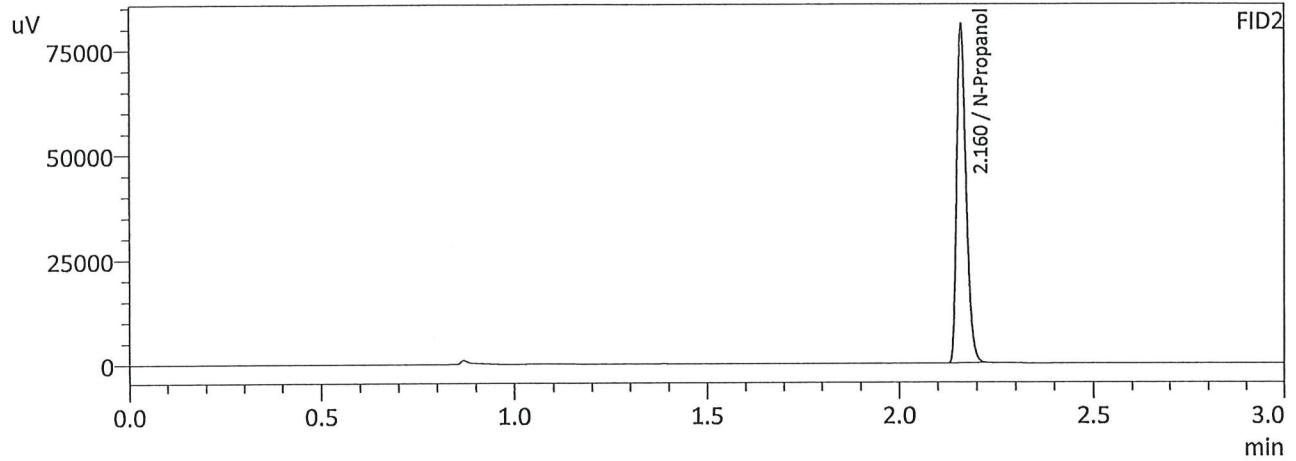
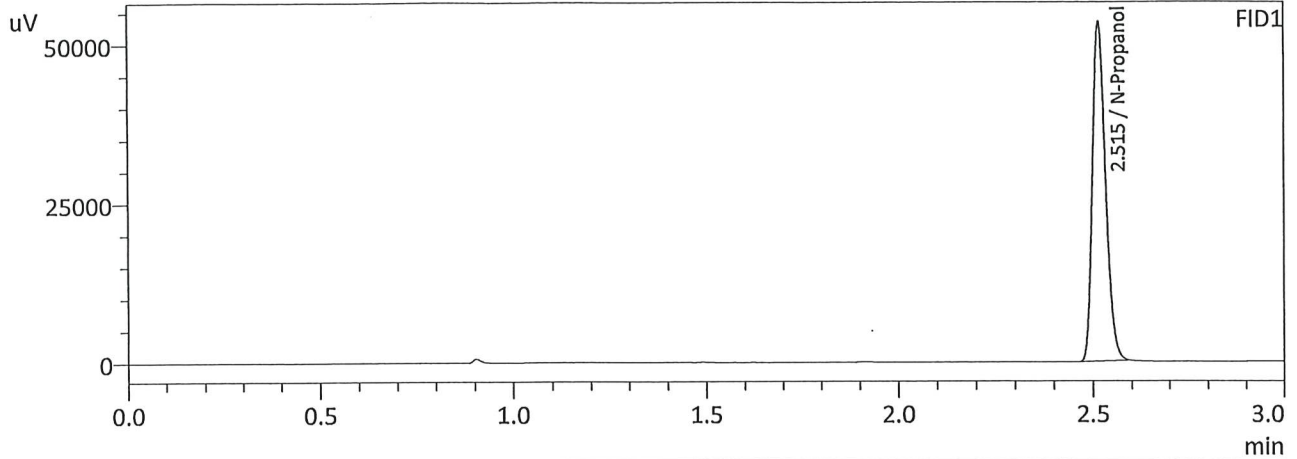
Not Ready

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 : INT STD BLK
 Laboratory : Meridian
 Injection Date : 10/4/2023 12:17:49 PM
 Vial # : 6
 Method Filename : Default Project - ALCOHOL_231004.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	124870	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	134902	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

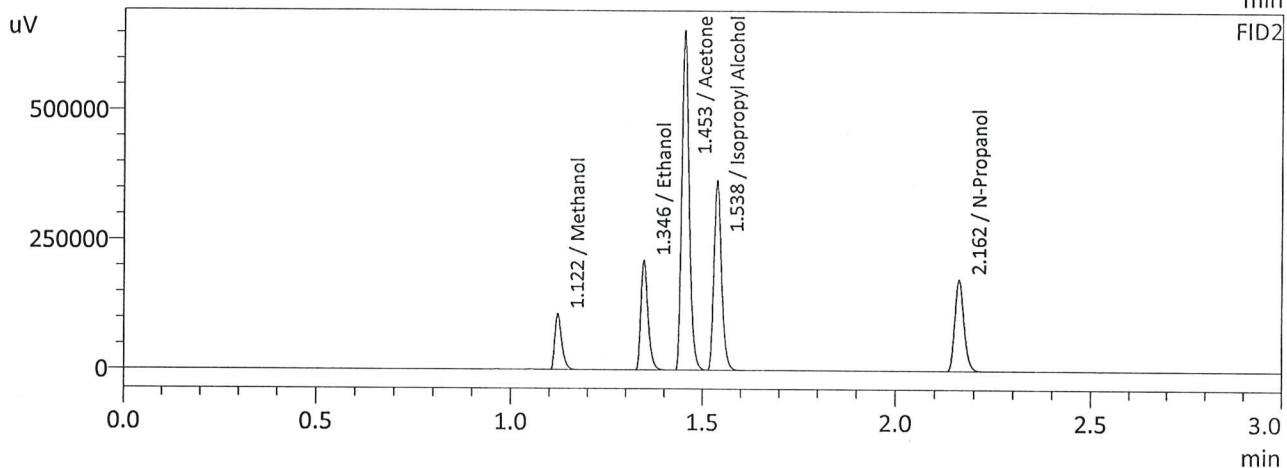
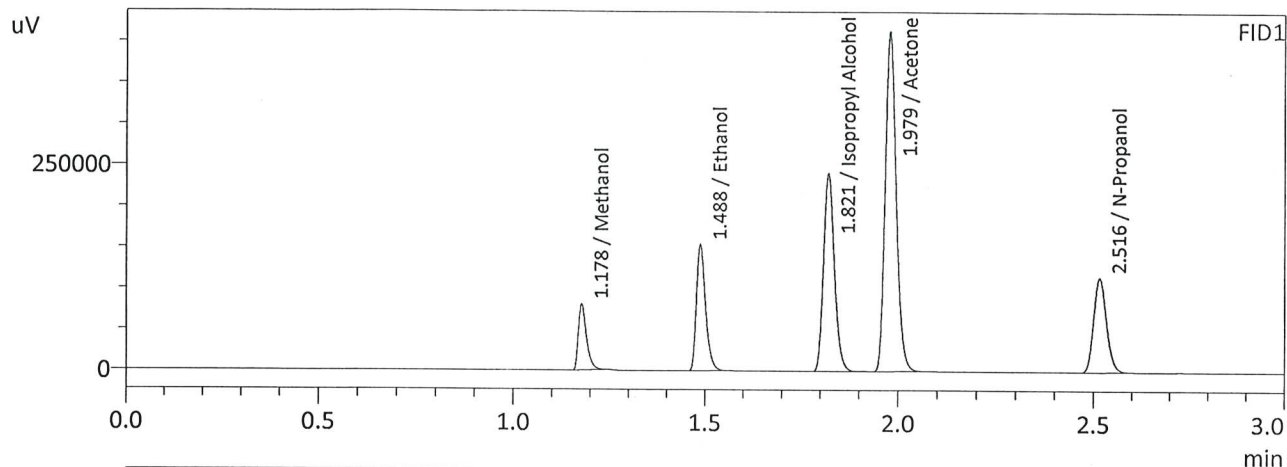
Vial#	Sample Name	Sample Type	Level#	Method File
1	0.050	0:Unknown	1	ALCOHOL 231004.gcm
2	0.100	0:Unknown	2	ALCOHOL 231004.gcm
3	0.200	0:Unknown	3	ALCOHOL 231004.gcm
4	0.300	0:Unknown	4	ALCOHOL 231004.gcm
5	0.500	0:Unknown	5	ALCOHOL 231004.gcm
6	INT STD BLK	0:Unknown	0	ALCOHOL 231004.gcm

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	ISTD BLK 1	0:Unknown	0	ALCOHOL 231004.gcm
2	ED VOLATILES FN 0604	0:Unknown	1	ALCOHOL 231004.gcm
3	QC-1-1	0:Unknown	0	ALCOHOL 231004.gcm
4	QC-1-1-B	0:Unknown	0	ALCOHOL 231004.gcm
5	0.08 QA	0:Unknown	0	ALCOHOL 231004.gcm
6	0.08 QA-B	0:Unknown	0	ALCOHOL 231004.gcm
7	M2023-4292-3	0:Unknown	0	ALCOHOL 231004.gcm
8	M2023-4292-3-B	0:Unknown	0	ALCOHOL 231004.gcm
9	M2023-4296-1	0:Unknown	0	ALCOHOL 231004.gcm
10	M2023-4296-1-B	0:Unknown	0	ALCOHOL 231004.gcm
11	M2023-4301-1	0:Unknown	0	ALCOHOL 231004.gcm
12	M2023-4301-1-B	0:Unknown	0	ALCOHOL 231004.gcm
13	M2023-4302-1	0:Unknown	0	ALCOHOL 231004.gcm
14	M2023-4302-1-B	0:Unknown	0	ALCOHOL 231004.gcm
15	M2023-4303-1	0:Unknown	0	ALCOHOL 231004.gcm
16	M2023-4303-1-B	0:Unknown	0	ALCOHOL 231004.gcm
17	M2023-4304-1	0:Unknown	0	ALCOHOL 231004.gcm
18	M2023-4304-1-B	0:Unknown	0	ALCOHOL 231004.gcm
19	M2023-4343-1	0:Unknown	0	ALCOHOL 231004.gcm
20	M2023-4343-1-B	0:Unknown	0	ALCOHOL 231004.gcm
21	M2023-4354-1	0:Unknown	0	ALCOHOL 231004.gcm
22	M2023-4354-1-B	0:Unknown	0	ALCOHOL 231004.gcm
23	M2023-4355-1	0:Unknown	0	ALCOHOL 231004.gcm
24	M2023-4355-1-B	0:Unknown	0	ALCOHOL 231004.gcm
25	QC-2-1	0:Unknown	0	ALCOHOL 231004.gcm
26	QC-2-1-B	0:Unknown	0	ALCOHOL 231004.gcm
27	M2023-4357-3	0:Unknown	0	ALCOHOL 231004.gcm
28	M2023-4357-3-B	0:Unknown	0	ALCOHOL 231004.gcm
29	M2023-4383-1	0:Unknown	0	ALCOHOL 231004.gcm
30	M2023-4383-1-B	0:Unknown	0	ALCOHOL 231004.gcm
31	M2023-4425-1	0:Unknown	0	ALCOHOL 231004.gcm
32	M2023-4425-1-B	0:Unknown	0	ALCOHOL 231004.gcm
33	M2023-4426-1	0:Unknown	0	ALCOHOL 231004.gcm
34	M2023-4426-1-B	0:Unknown	0	ALCOHOL 231004.gcm
35	M2023-4434-1	0:Unknown	0	ALCOHOL 231004.gcm
36	M2023-4434-1-B	0:Unknown	0	ALCOHOL 231004.gcm
37	M2023-4460-1	0:Unknown	0	ALCOHOL 231004.gcm
38	M2023-4460-1-B	0:Unknown	0	ALCOHOL 231004.gcm
39	M2023-4460-2	0:Unknown	0	ALCOHOL 231004.gcm
40	M2023-4460-2-B	0:Unknown	0	ALCOHOL 231004.gcm
41	M2023-4461-1	0:Unknown	0	ALCOHOL 231004.gcm
42	M2023-4461-1-B	0:Unknown	0	ALCOHOL 231004.gcm
43	M2023-4467-1	0:Unknown	0	ALCOHOL 231004.gcm
44	M2023-4467-1-B	0:Unknown	0	ALCOHOL 231004.gcm
45	P2023-3288-1	0:Unknown	0	ALCOHOL 231004.gcm
46	P2023-3288-1-B	0:Unknown	0	ALCOHOL 231004.gcm
47	QC-1-2	0:Unknown	0	ALCOHOL 231004.gcm
48	QC-1-2-B	0:Unknown	0	ALCOHOL 231004.gcm
49	QC-2-2	0:Unknown	0	ALCOHOL 231004.gcm
50	QC-2-2-B	0:Unknown	0	ALCOHOL 231004.gcm
51	ISTD BLK 2	0:Unknown	0	ALCOHOL 231004.gcm

Sample Name : MIXED VOLATILES FN 06041902
 Laboratory : Meridian
 Injection Date : 10/16/2023 12:35:21 PM
 Vial # : 2
 Method Filename : Default Project - ALCOHOL_231004.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

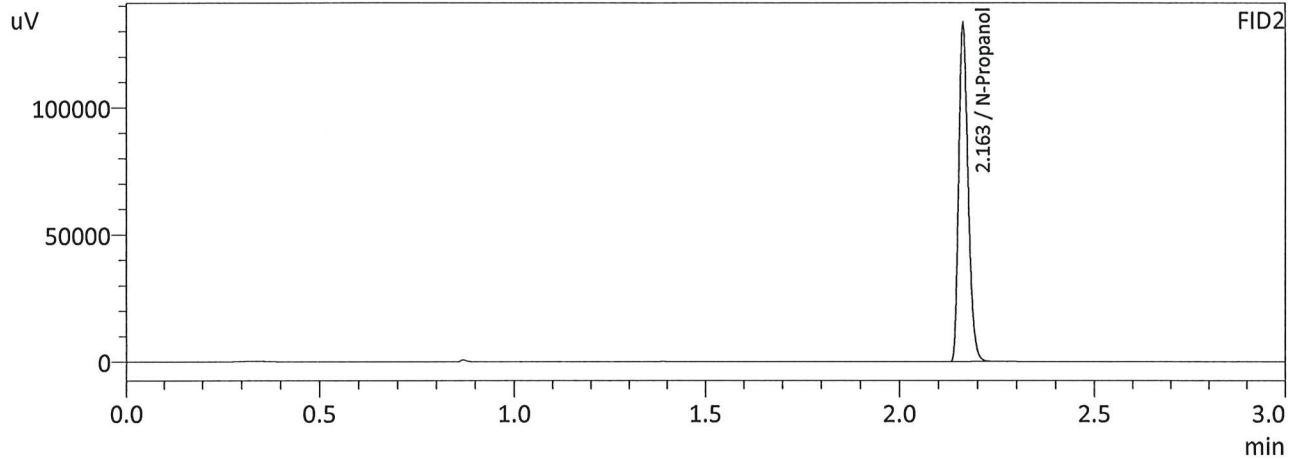
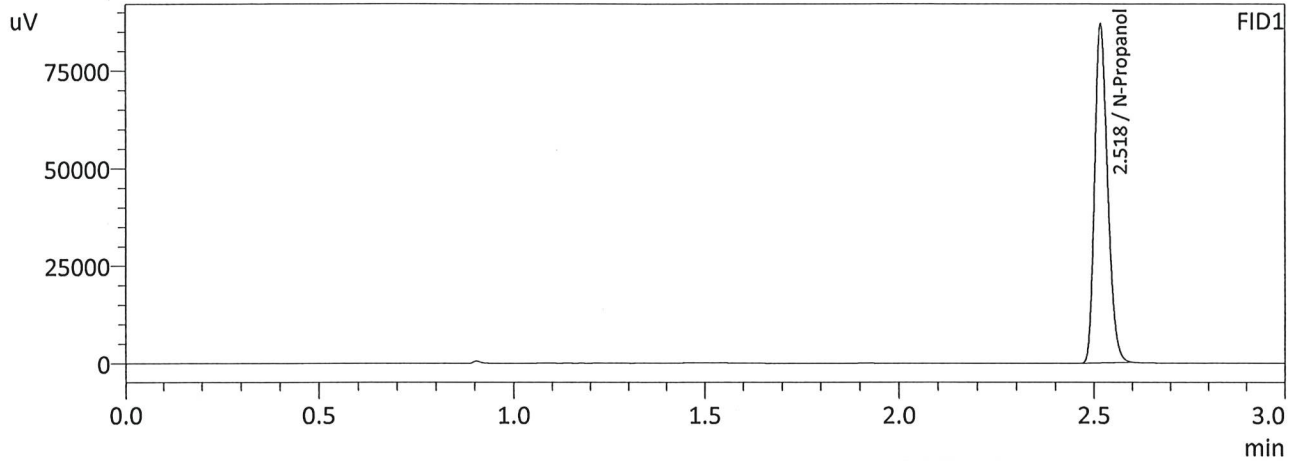
Name	Conc.	Area	Unit
Methanol	0.0000	119101	g/100cc
Ethanol	0.4256	253627	g/100cc
Isopropyl Alcohol	0.0000	468986	g/100cc
Acetone	0.0000	808959	g/100cc
N-Propanol	0.0000	267801	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	0.0000	133279	g/100cc
Ethanol	0.4267	277528	g/100cc
Acetone	0.0000	879762	g/100cc
Isopropyl Alcohol	0.0000	507462	g/100cc
N-Propanol	0.0000	291346	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : ISTD BLK 2
 Laboratory : Meridian
 Injection Date : 10/16/2023 7:09:08 PM
 Vial # : 51
 Method Filename : Default Project - ALCOHOL_231004.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

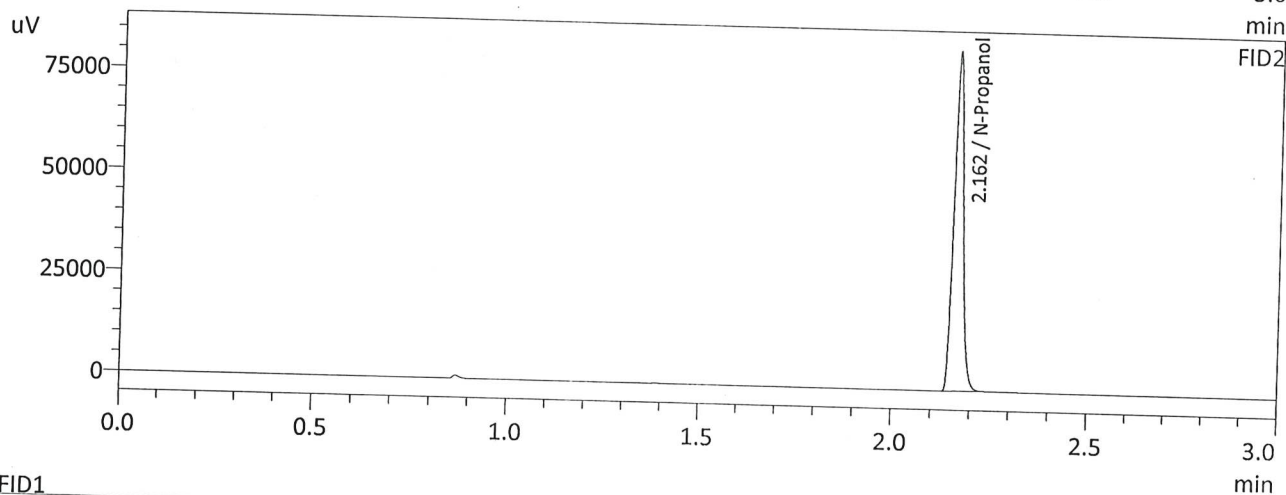
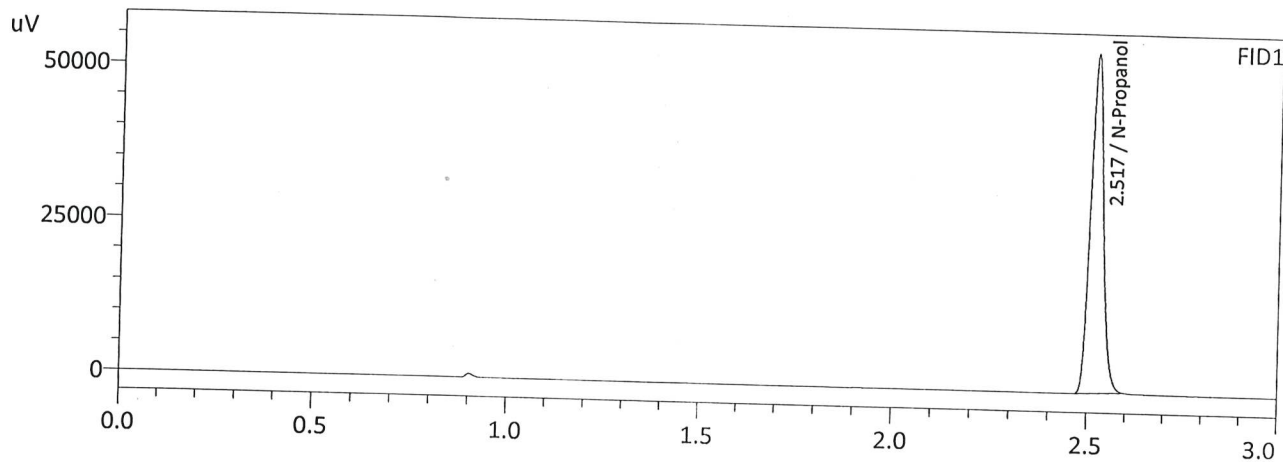
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	202979	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	220496	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : ISTD BLK 1
 Laboratory : Meridian
 Injection Date : 10/16/2023 12:28:00 PM
 Vial # : 1
 Method Filename : Default Project - ALCOHOL_231004.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	128442	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	139032	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

VOLATILES DETERMINATION CASEFILE WORKSHEET

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: 0.08 QA			Analysis Date(s): 10/16/2023 12:59:18 PM(-06:00)			
	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0778	0.0771	0.0007	0.0774	0.0003	0.0776
(g/100cc)	0.0781	0.0774	0.0007	0.0777		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

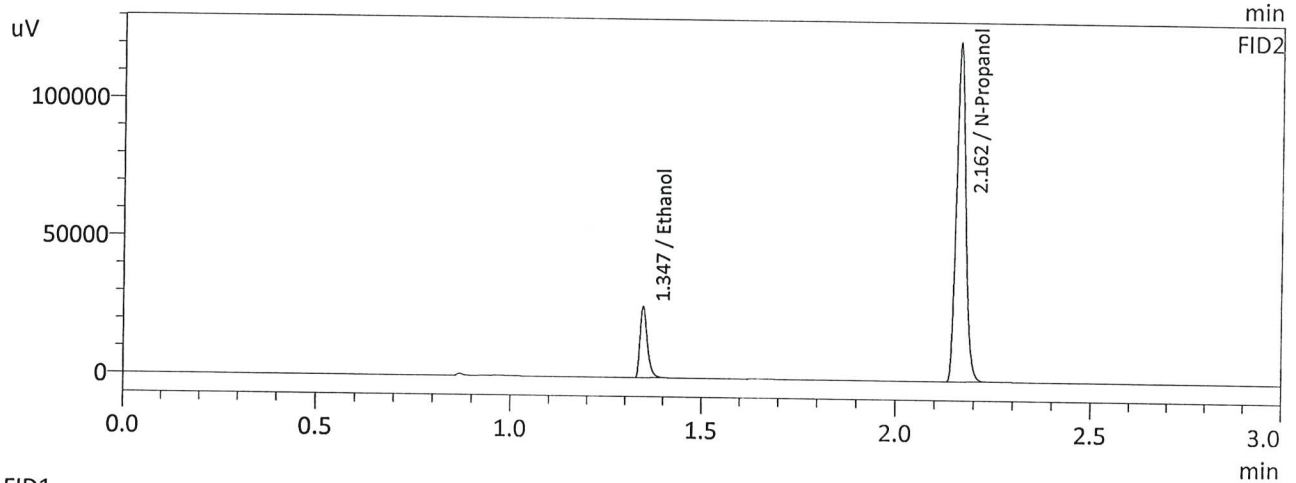
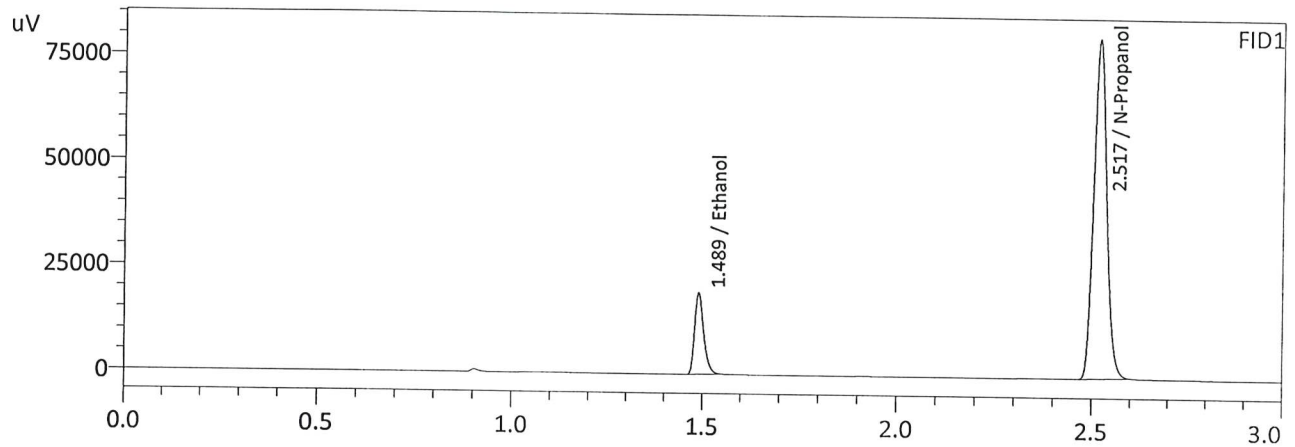
Refer To Instrument Method: ALCOHOL_231004.gcm

Reporting of Results	Uncertainty of Measurements (UM%): 5.00%		
Overall Mean (g/100cc)	Low	High	5 % of Mean
0.077	0.073	0.081	0.004
	Reported Results		
	0.077		

Calibration and control data are stored centrally.

W

Sample Name : 0.08 QA
 Laboratory : Meridian
 Injection Date : 10/16/2023 12:59:18 PM
 Vial # : 5
 Method Filename : Default Project - ALCOHOL_231004.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

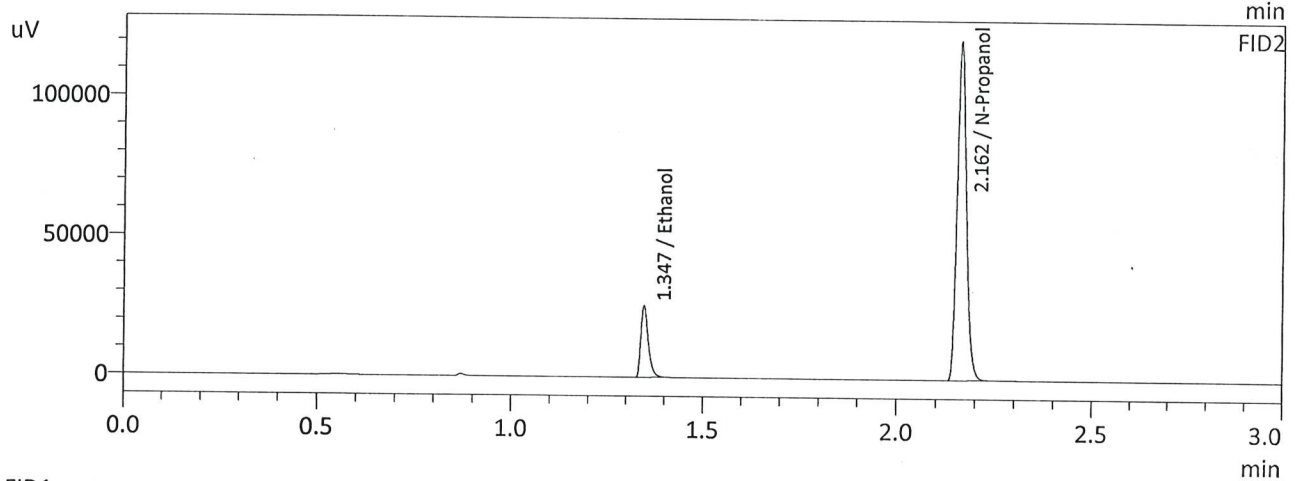
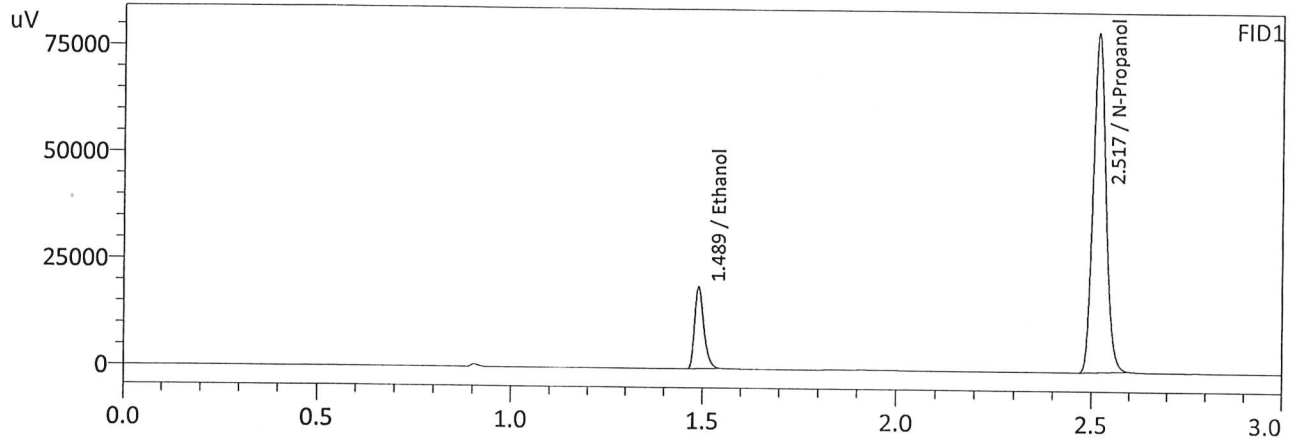
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0778	32107	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	187910	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0771	34579	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	203639	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : 0.08 QA-B
 Laboratory : Meridian
 Injection Date : 10/16/2023 1:07:26 PM
 Vial # : 6
 Method Filename : Default Project - ALCOHOL_231004.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0781	31835	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	185627	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0774	34271	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	201190	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

VOLATILES DETERMINATION CASEFILE WORKSHEET

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: QC-1-1			Analysis Date(s): 10/16/2023 12:42:39 PM(-06:00)			
	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0761	0.0753	0.0008	0.0757	0.0001	0.0757
(g/100cc)	0.0762	0.0755	0.0007	0.0758		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

Refer To Instrument Method: ALCOHOL_231004.gcm

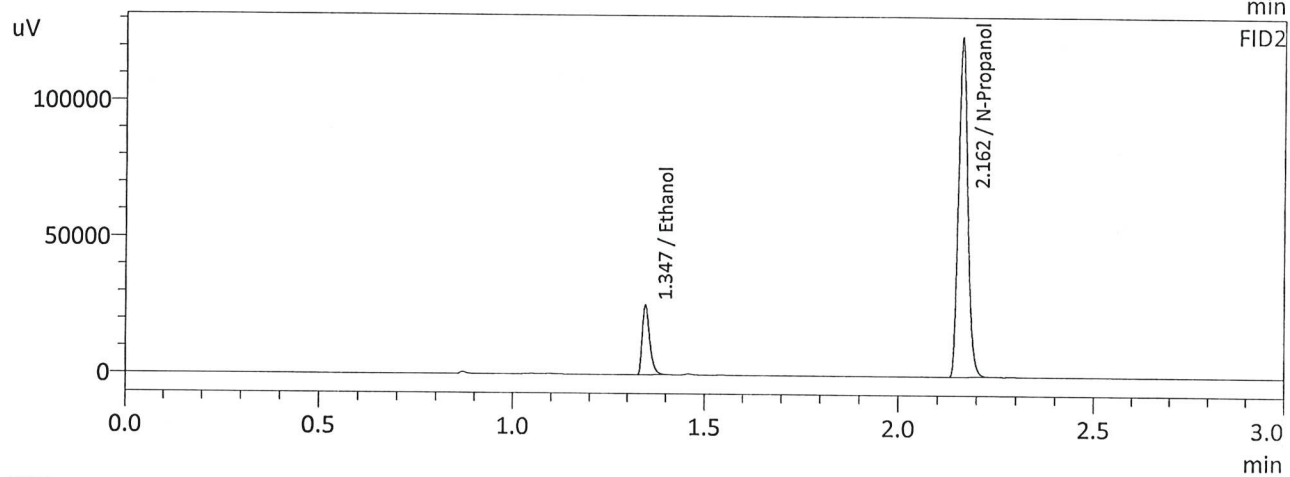
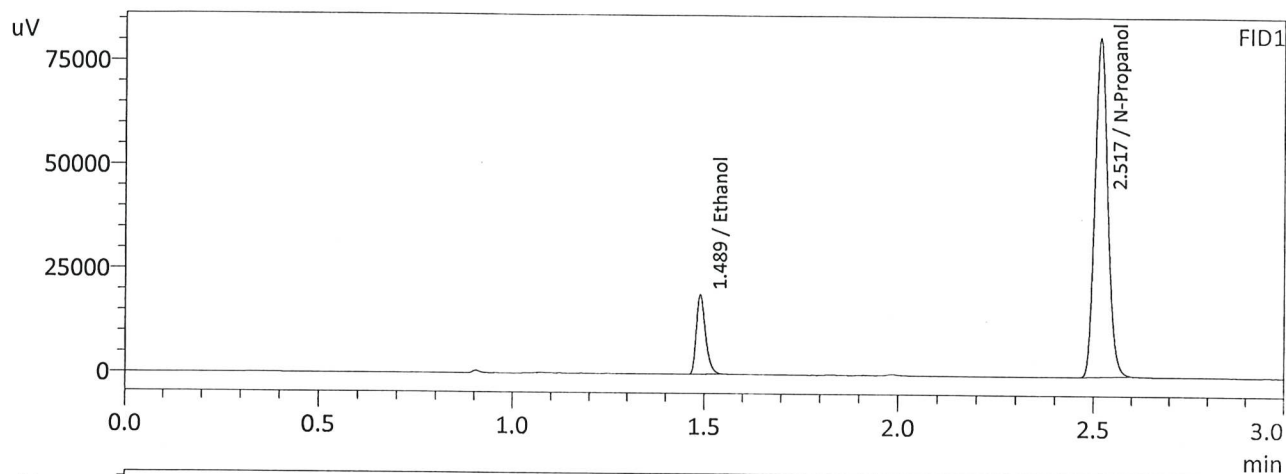
Reporting of Results	Uncertainty of Measurements (UM%): 5.00%		
Overall Mean (g/100cc)	Low	High	5 % of Mean
0.075	0.071	0.079	0.004

Reported Results	
0.075	

Calibration and control data are stored centrally.

W

Sample Name : QC-1-1
 Laboratory : Meridian
 Injection Date : 10/16/2023 12:42:39 PM
 Vial # : 3
 Method Filename : Default Project - ALCOHOL_231004.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

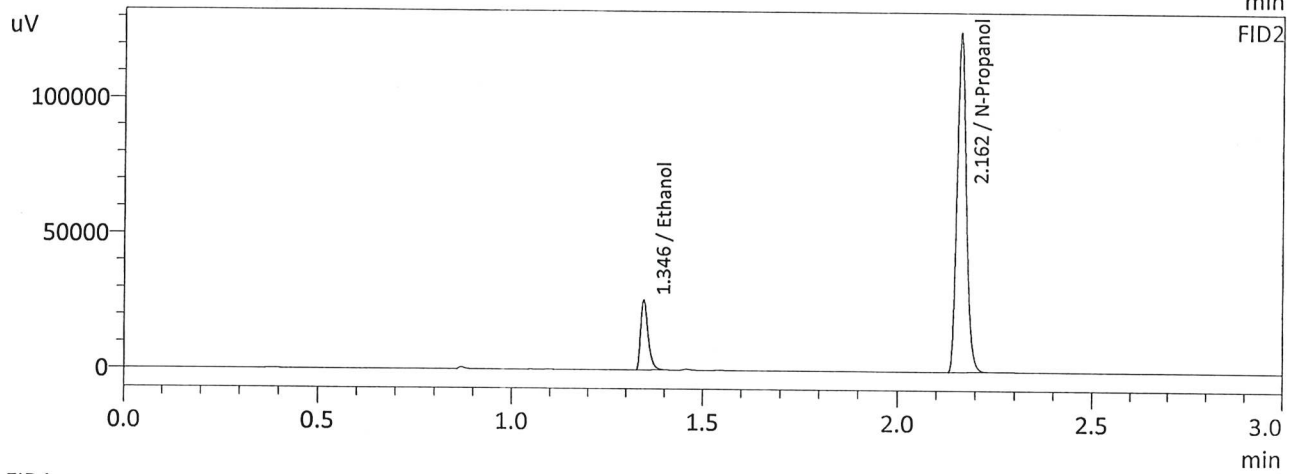
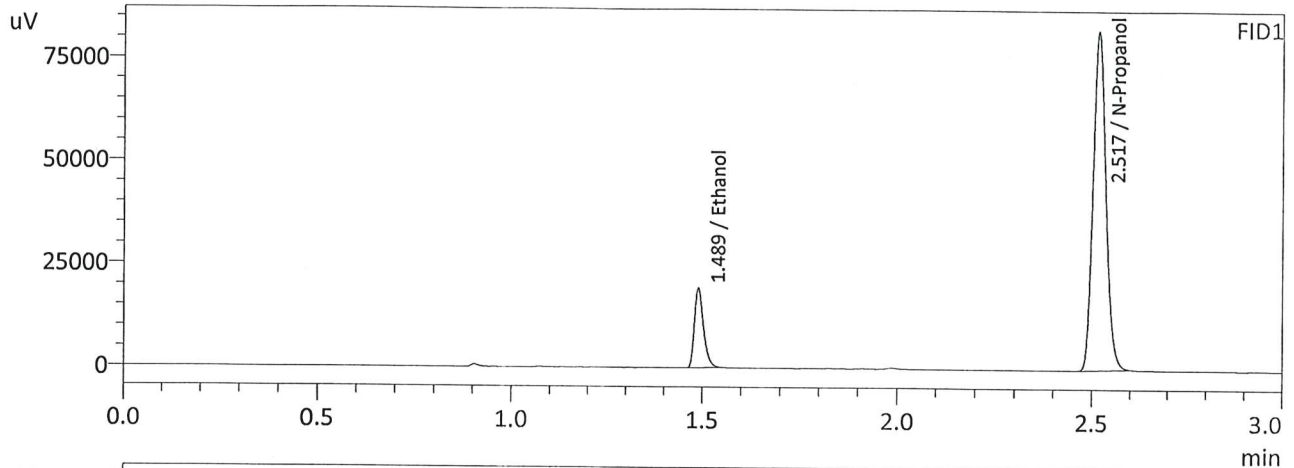
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0761	31800	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	190407	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0753	34150	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	206184	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : QC-1-1-B
 Laboratory : Meridian
 Injection Date : 10/16/2023 12:51:36 PM
 Vial # : 4
 Method Filename : Default Project - ALCOHOL_231004.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0762	32118	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	192008	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0755	34543	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	207826	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

W

VOLATILES DETERMINATION CASEFILE WORKSHEET

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: QC-1-2			Analysis Date(s): 10/16/2023 6:36:21 PM(-06:00)			
	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0786	0.0781	0.0005	0.0783	0.0002	0.0784
(g/100cc)	0.0788	0.0783	0.0005	0.0785		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

Refer To Instrument Method: ALCOHOL_231004.gcm

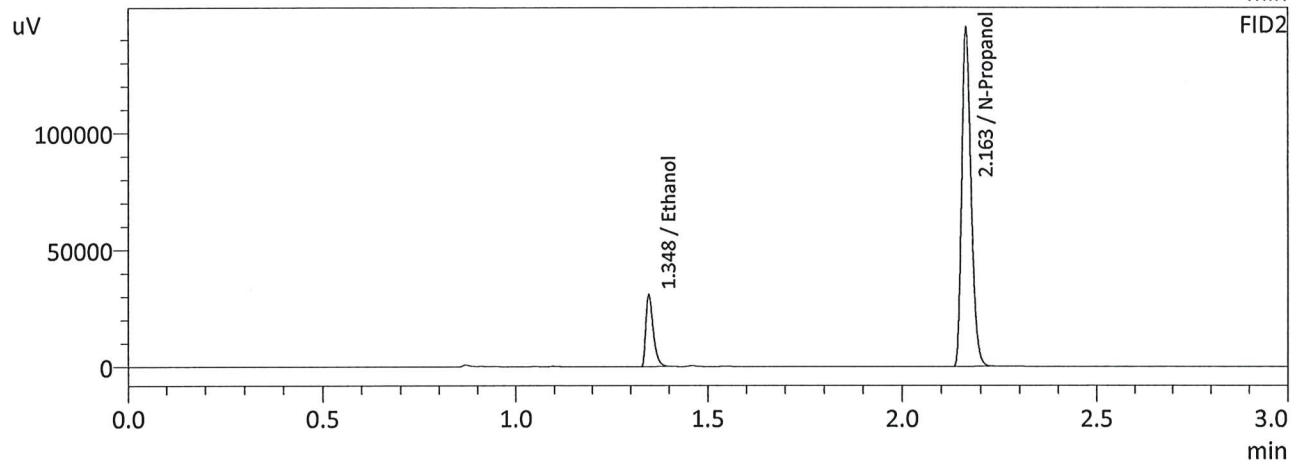
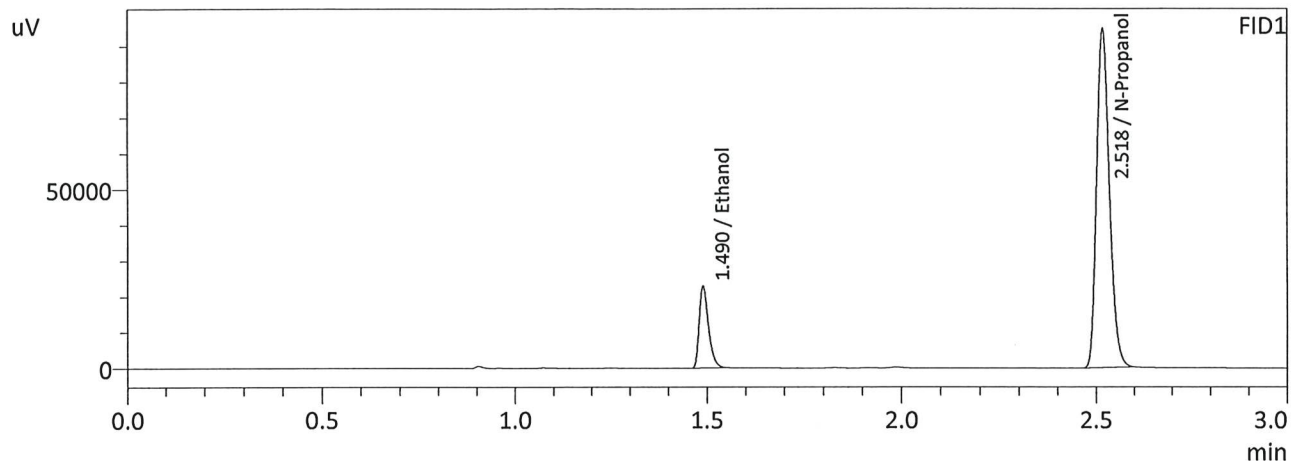
Reporting of Results	Uncertainty of Measurements (UM%): 5.00%		
Overall Mean (g/100cc)	Low	High	5 % of Mean
0.078	0.074	0.082	0.004

Reported Results	
0.078	

Calibration and control data are stored centrally.

W

Sample Name : QC-1-2
 Laboratory : Meridian
 Injection Date : 10/16/2023 6:36:21 PM
 Vial # : 47
 Method Filename : Default Project - ALCOHOL_231004.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

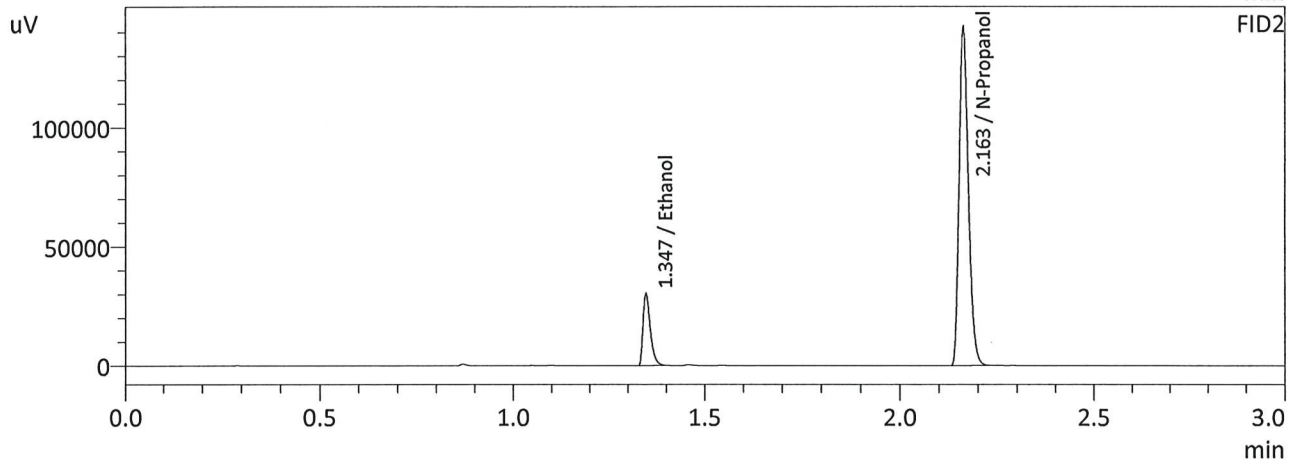
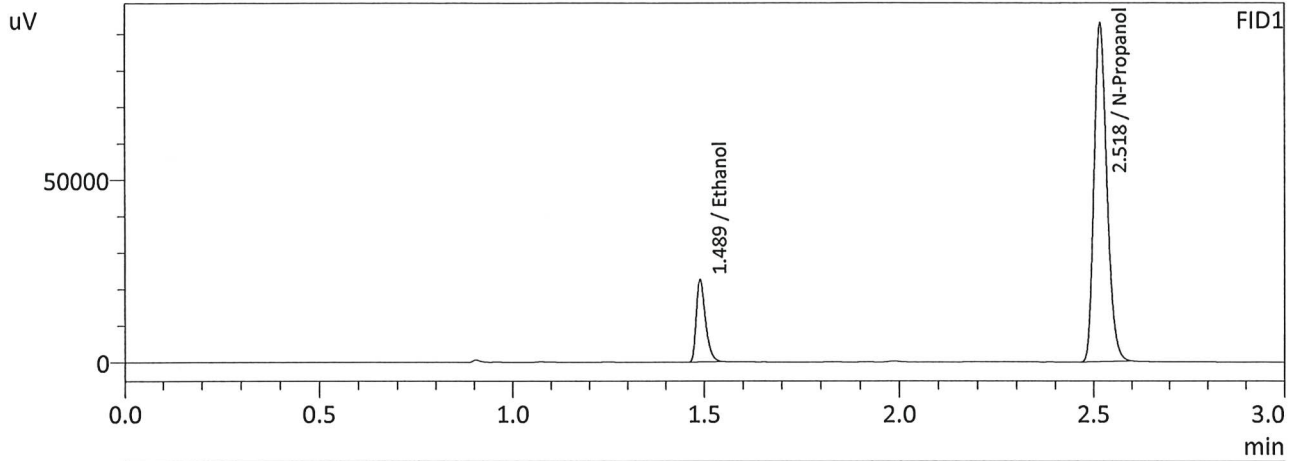
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0786	38162	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	221113	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0781	41355	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	240324	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : QC-1-2-B
 Laboratory : Meridian
 Injection Date : 10/16/2023 6:45:24 PM
 Vial # : 48
 Method Filename : Default Project - ALCOHOL_231004.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0788	37506	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	216654	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0783	40580	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	235356	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

VOLATILES DETERMINATION CASEFILE WORKSHEET

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: QC-2-1		Analysis Date(s): 10/16/2023 3:39:45 PM(-06:00)				
	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.1985	0.1978	0.0007	0.1981	0.0002	0.1982
(g/100cc)	0.1987	0.1980	0.0007	0.1983		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

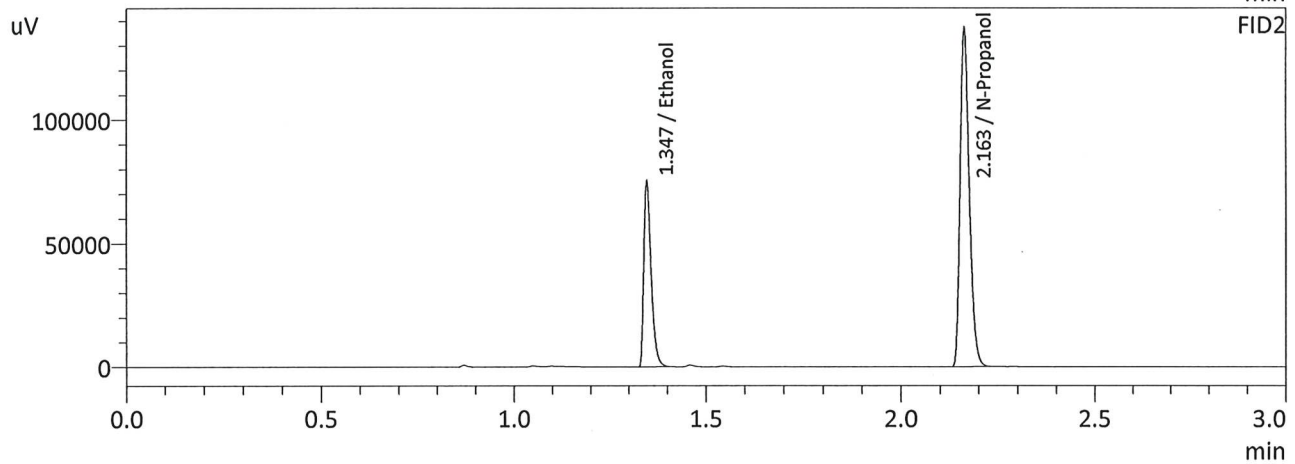
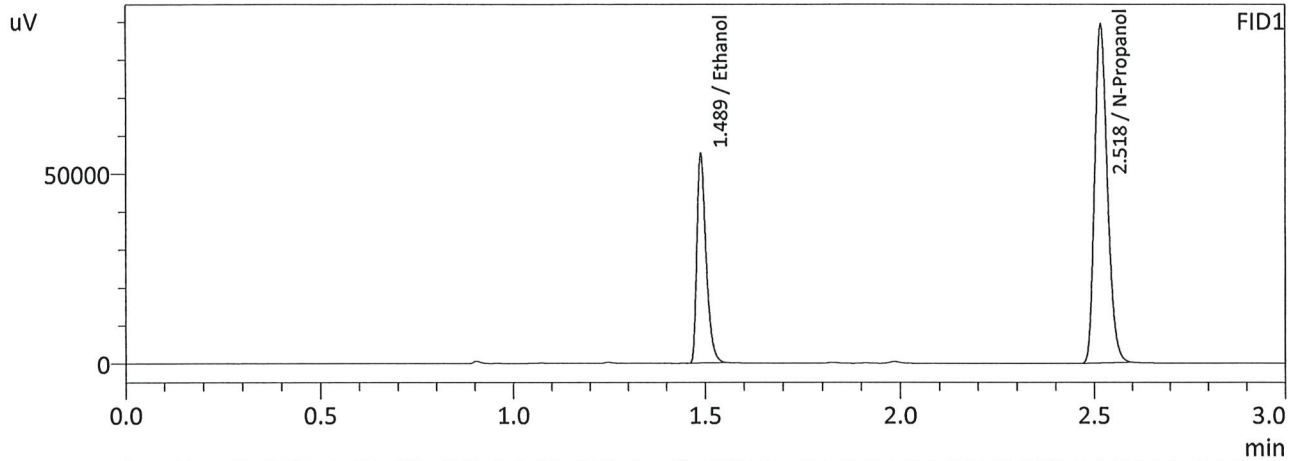
Refer To Instrument Method: ALCOHOL_231004.gcm

Reporting of Results	Uncertainty of Measurements (UM%):		5.00%
Overall Mean (g/100cc)	Low	High	5 % of Mean
0.198	0.188	0.208	0.010

Reported Results	
0.198	

Calibration and control data are stored centrally.

Sample Name : QC-2-1
 Laboratory : Meridian
 Injection Date : 10/16/2023 3:39:45 PM
 Vial # : 25
 Method Filename : Default Project - ALCOHOL_231004.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

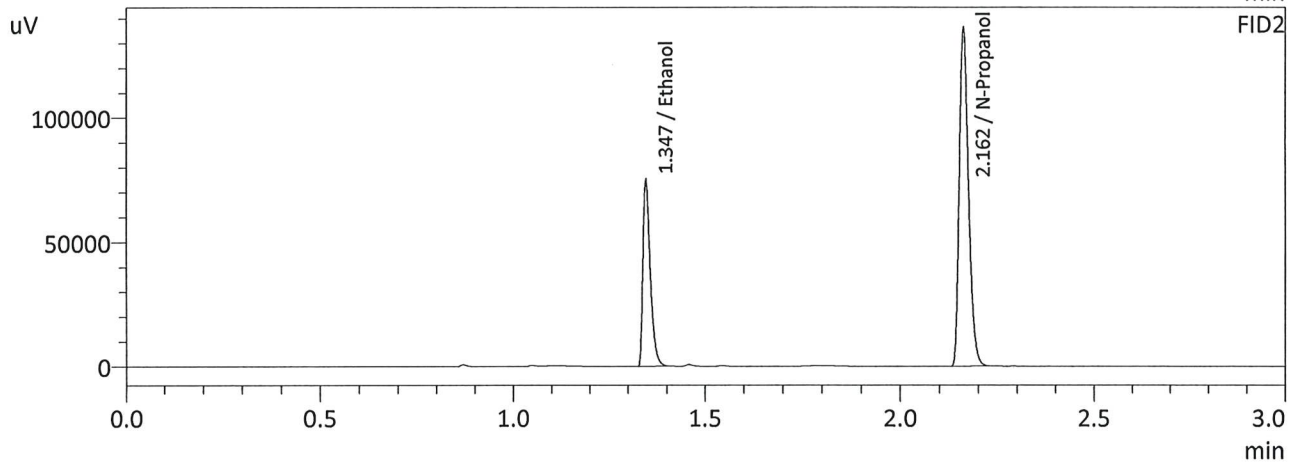
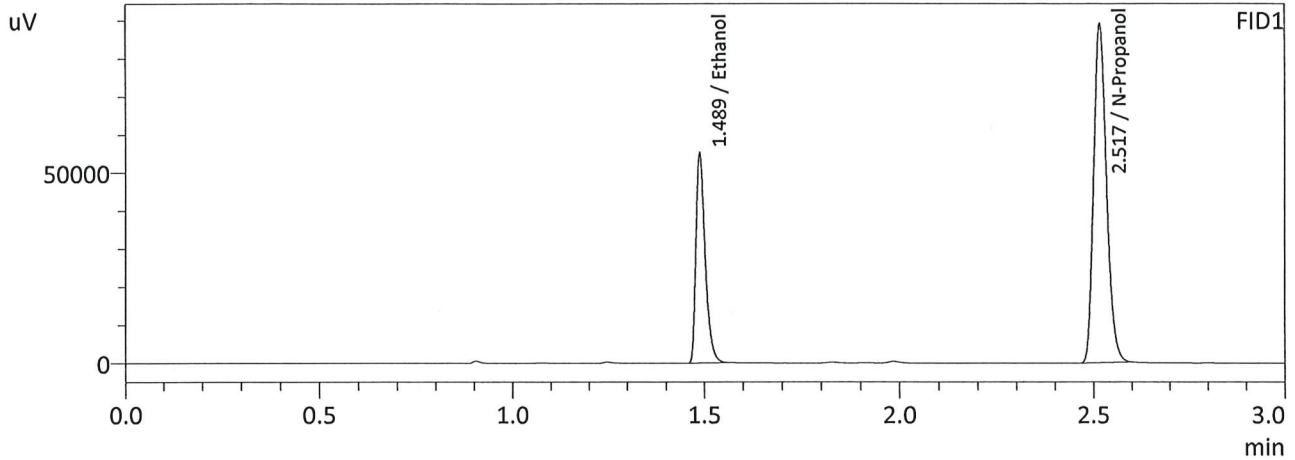
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1985	91767	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	208502	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1978	99633	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	226395	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : QC-2-1-B
 Laboratory : Meridian
 Injection Date : 10/16/2023 3:47:18 PM
 Vial # : 26
 Method Filename : Default Project - ALCOHOL_231004.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1987	91654	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	208007	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1980	99447	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	225738	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

VOLATILES DETERMINATION CASEFILE WORKSHEET

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: QC-2-2

Analysis Date(s): 10/16/2023 6:52:55 PM(-06:00)

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.2105	0.2102	0.0003	0.2103	0.0089	0.2058
(g/100cc)	0.2020	0.2008	0.0012	0.2014		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

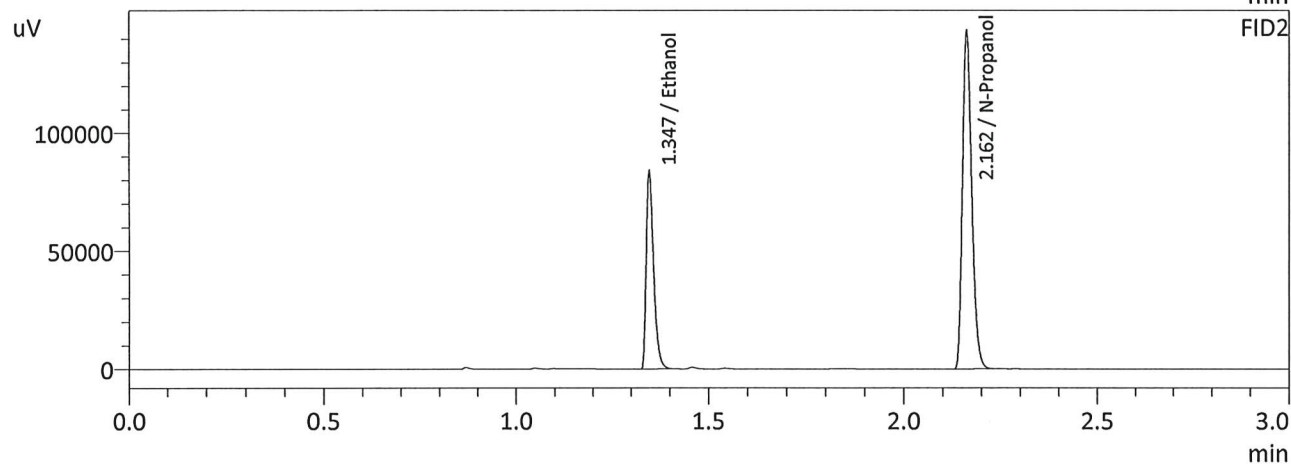
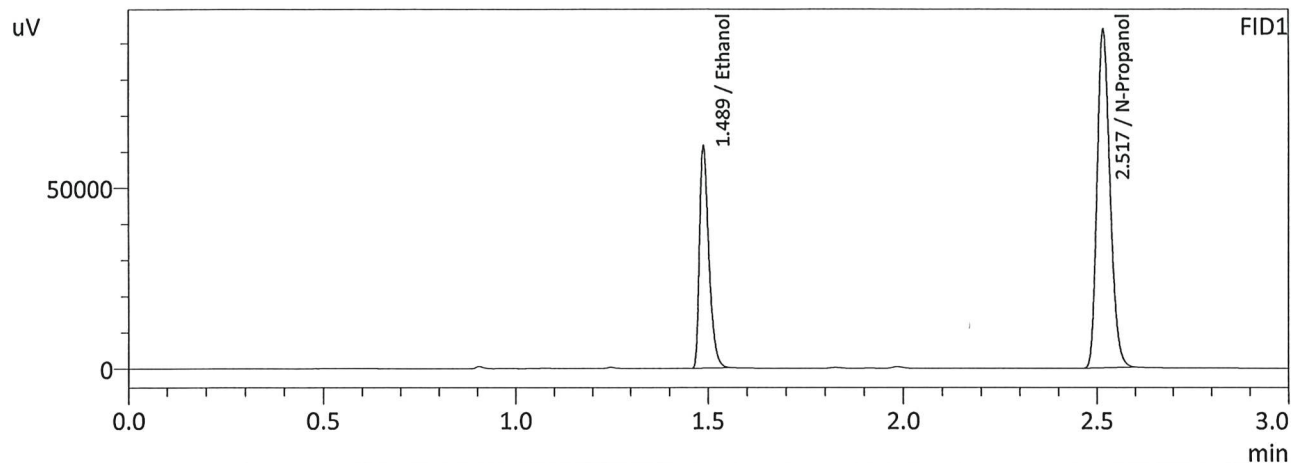
Refer To Instrument Method: ALCOHOL_231004.gcm

Reporting of Results	Uncertainty of Measurements (UM%): 5.00%		
Overall Mean (g/100cc)	Low	High	5 % of Mean
0.205	0.194	0.216	0.011

Reported Results	
0.205	

Calibration and control data are stored centrally.

Sample Name : QC-2-2
 Laboratory : Meridian
 Injection Date : 10/16/2023 6:52:55 PM
 Vial # : 49
 Method Filename : Default Project - ALCOHOL_231004.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

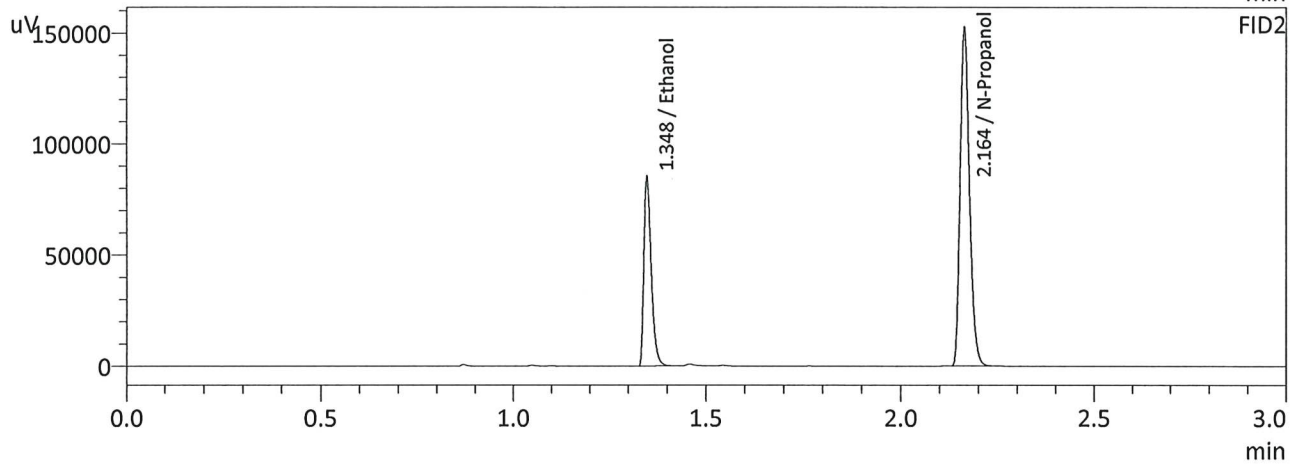
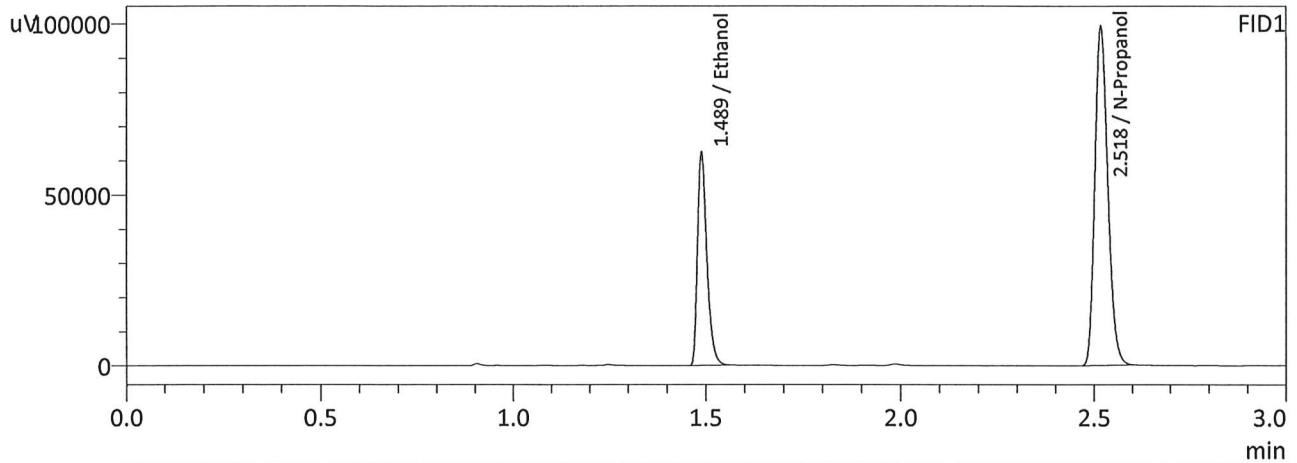
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2105	102160	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	218755	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2102	111061	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	237387	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : QC-2-2-B
 Laboratory : Meridian
 Injection Date : 10/16/2023 7:00:07 PM
 Vial # : 50
 Method Filename : Default Project - ALCOHOL_231004.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2020	103848	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	231826	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2008	112906	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	252680	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

W