



















**Worklist: 6243**

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
M2023-0478	1	BCK	Alcohol Analysis	
M2023-0501	1	BCK	Alcohol Analysis	
M2023-0502	1	BCK	Alcohol Analysis	
M2023-0512	1	BCK	Alcohol Analysis	
M2023-0513	1	BCK	Alcohol Analysis	
M2023-0514	1	BCK	Alcohol Analysis	
M2023-0529	1	BCK	Alcohol Analysis	
M2023-0549	1	BCK	Alcohol Analysis	
M2023-0574	1	BCK	Alcohol Analysis	
M2023-0576	1	BCK	Alcohol Analysis	
M2023-0577	1	BCK	Alcohol Analysis	
M2023-0597	1	BCK	BATS Proficiency Test	
M2023-0597	2	BCK	BATS Proficiency Test	
M2023-0597	3	BCK	BATS Proficiency Test	
M2023-0597	4	BCK	BATS Proficiency Test	
M2023-0605	1	BCK	Alcohol Analysis	
M2023-0606	1	BCK	Alcohol Analysis	
M2023-0607	1	BCK	Alcohol Analysis	

NB

**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): 2/10/23**

**Calibration Date: (if different)**

**Worklist #: 6243**

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results	
Level 1	Feb-25	2101199	0.0808	0.0727-0.0889	0.0764 g/100cc	
					0.0810 g/100cc	
					g/100cc	
Level 2	Jul-23	1907007	0.2170	0.1953-0.2387	0.2079 g/100cc	
					0.2092 g/100cc	
					g/100cc	
<b>Multi-Component mixture:</b>		<b>Exp:</b>	<b>Oct. 2024</b>	<b>Lot #</b>	FN06041902	
<b>Curve Fit:</b>			<b>Column 1</b>	0.99969	<b>Column2</b>	0.99968

**Ethanol Calibration Reference Material**

Calibrator level	Target Value	Acceptable Range	Column 1	Column 2	Precision	Mean
50	0.050	0.045 - 0.055	0.0526	0.0527	1E-04	0.0526
100	0.100	0.090 - 0.110	0.0976	0.0974	0.0002	0.0975
200	0.200	0.180 - 0.220	0.1966	0.1966	0	0.1966
300	0.300	0.270 - 0.330	0.3038	0.3039	1E-04	0.3038
400	0.400	0.360 - 0.440			0	#DIV/0!
500	0.500	0.450 - 0.550	0.4992	0.4992	0	0.4992

**Aqueous Controls**

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

**Internal Standard Monitoring Worksheet**

<b>Worklist #:</b>	<b>6243</b>	<b>Run Date(s):</b>	<b>2/10/23</b>
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Internal Standard Solution:	Prep Date: 12/8/2022	Exp Date: 6/8/2023
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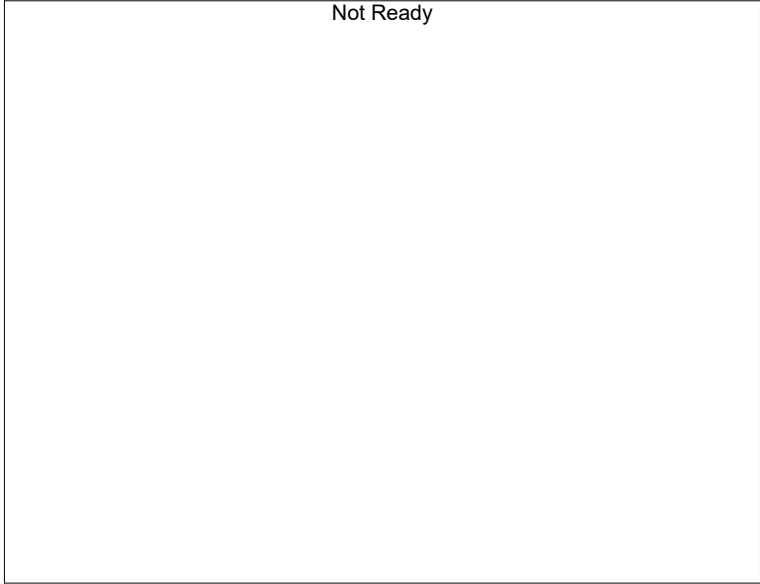
Sample Name	Column 1 Value	Column 2 Value
0.080	180698	196116
0.080	184225	199912
QC1	182736	198371
QC1	184778	200725
QC1	226934	246633
QC1	233613	253920
QC1		
QC1		
QC2	210589	229153
QC2	212141	230646
QC2	232976	253324
QC2	234368	254764
QC2		
QC2		

	Average	(-)20%	(+)20%
Column 1	208305.8	166644.6	249967.0
Column 2	226356.4	181085.1	271627.7

# Calibration Table

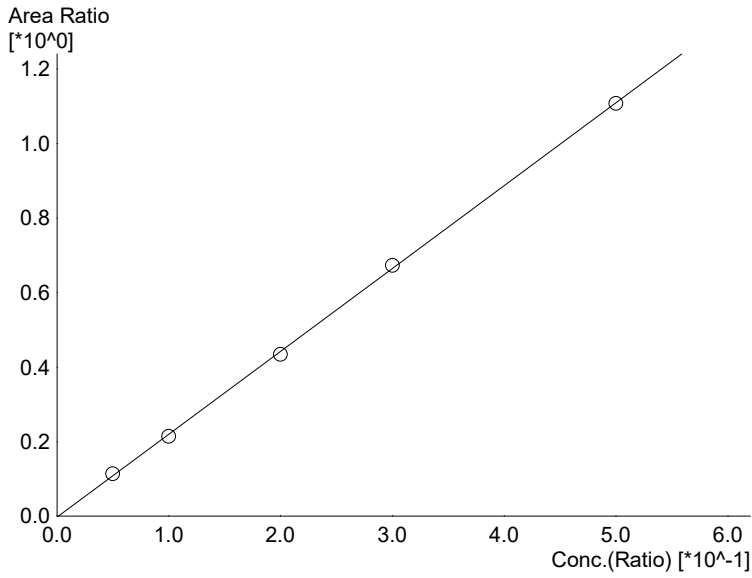
Laboratory : MERIDIAN  
 Instrument Name : GC-BAC  
 Instrument Serial # : C12595800409 / C12255750548

<<Method File>>  
 Method File :Default Project - ALCOHOL\_230210NB.gcm  
 Date Created :2/10/2023 1:33:45 PM  
 Date Modified :2/10/2023 3:36:59 PM



Name : Methanol  
 Detector Name: FID1  
 Function :  $f(x)=0*x+0$   
 R<sup>2</sup> value= 0  
 FitType: Linear  
 ZeroThrough: Not Through

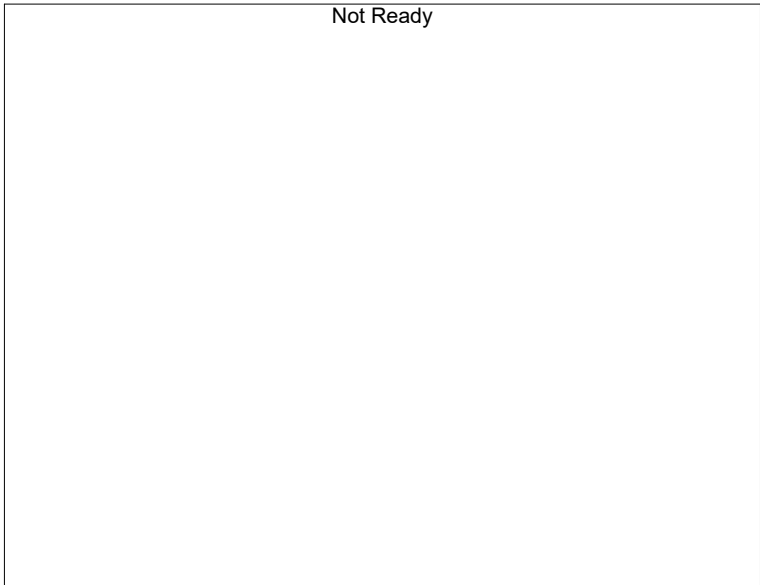
#	Conc.	Area	Std. Conc.
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Name : Ethanol  
 Detector Name: FID1  
 Function :  $f(x)=2.22386*x-0.00298631$   
 R<sup>2</sup> value= 0.9996943  
 FitType: Linear  
 ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
1	0.050	23171	0.0526
2	0.100	39427	0.0976
3	0.200	80233	0.1966
4	0.300	125233	0.3038
5	0.500	211324	0.4992

NB



Name : Isopropyl Alcohol  
Detector Name: FID1  
Function :  $f(x)=0*x+0$   
R<sup>2</sup> value= 0  
FitType: Linear  
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
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Name : Acetone  
Detector Name: FID1  
Function :  $f(x)=0*x+0$   
R<sup>2</sup> value= 0  
FitType: Linear  
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
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Name : Fluor. Hydrocarbon(s)  
Detector Name: FID1  
Function :  $f(x)=0*x+0$   
R<sup>2</sup> value= 0  
FitType: Linear  
ZeroThrough: Not Through

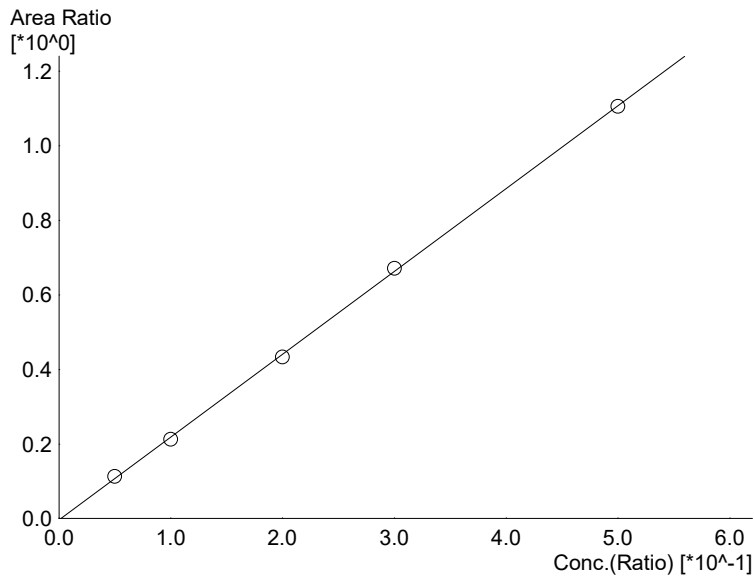
#	Conc.	Area	Std. Conc.
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NB



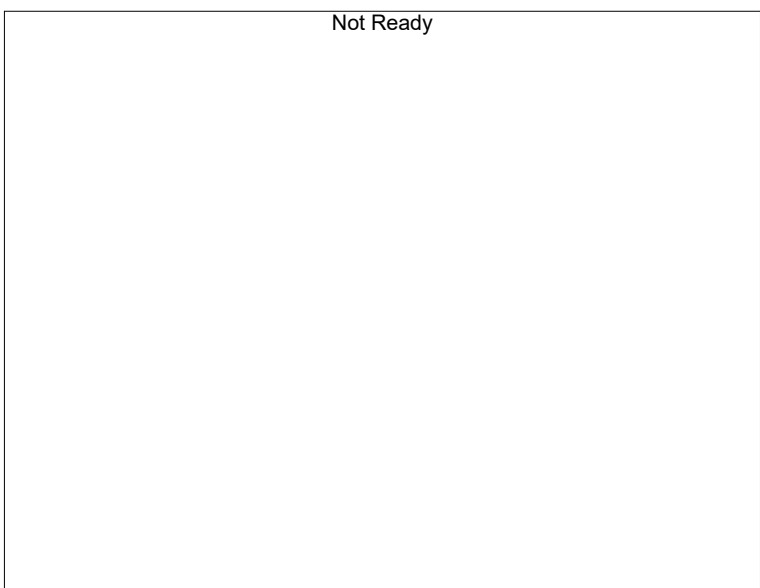
Name : Methanol  
 Detector Name: FID2  
 Function :  $f(x)=0*x+0$   
 R<sup>2</sup> value= 0  
 FitType: Linear  
 ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
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Name : Ethanol  
 Detector Name: FID2  
 Function :  $f(x)=2.22234*x-0.00417685$   
 R<sup>2</sup> value= 0.9996765  
 FitType: Linear  
 ZeroThrough: Not Through

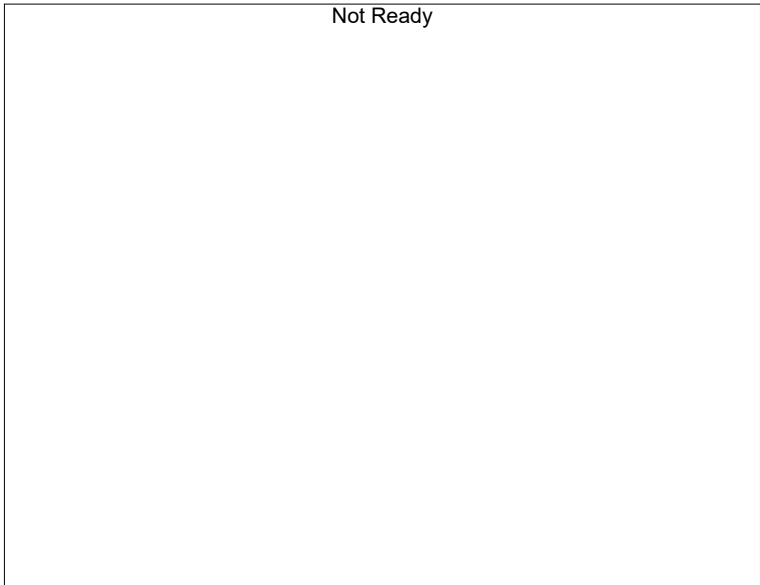
#	Conc.	Area	Std. Conc.
1	0.050	24969	0.0527
2	0.100	42441	0.0974
3	0.200	86791	0.1966
4	0.300	135759	0.3039
5	0.500	228830	0.4992



Name : Acetone  
 Detector Name: FID2  
 Function :  $f(x)=0*x+0$   
 R<sup>2</sup> value= 0  
 FitType: Linear  
 ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
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NB



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

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

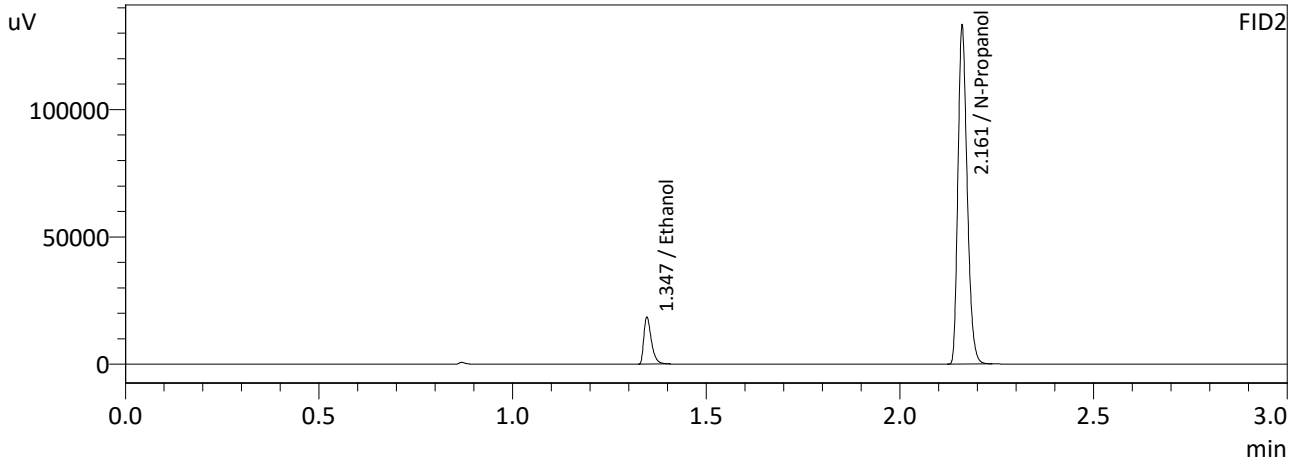
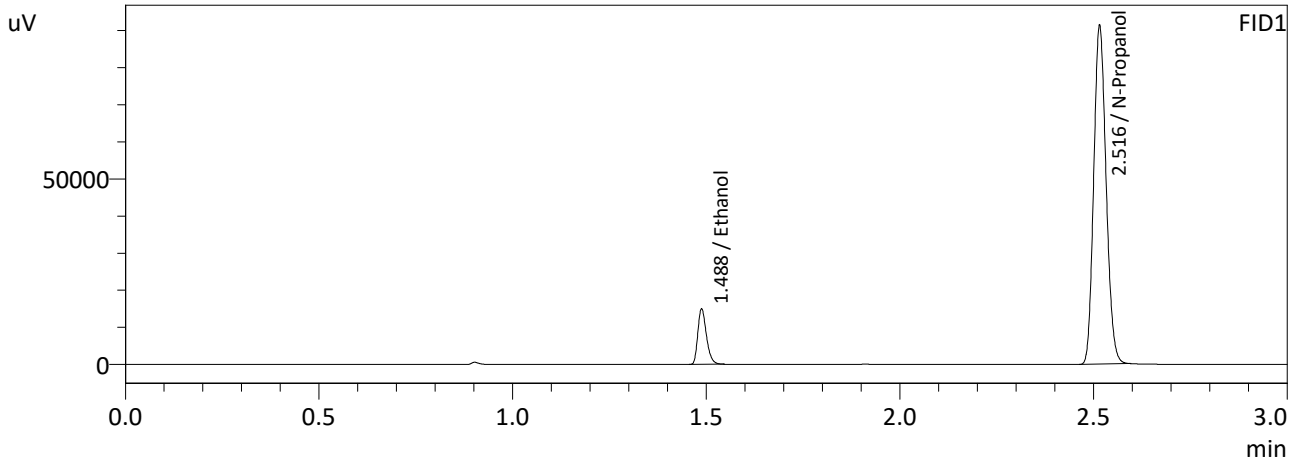


Name : Flour. Hydrocarbon(s)  
Detector Name: FID2  
Function :  $f(x)=0*x+0$   
R<sup>2</sup> value= 0  
FitType: Linear  
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
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NB

Sample Name : 0.050  
 Laboratory : Meridian  
 Injection Date : 2/10/2023 2:16:31 PM  
 Vial # : 1  
 Method Filename : Default Project - ALCOHOL\_230210NB.gcm  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0526	23171	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	203074	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

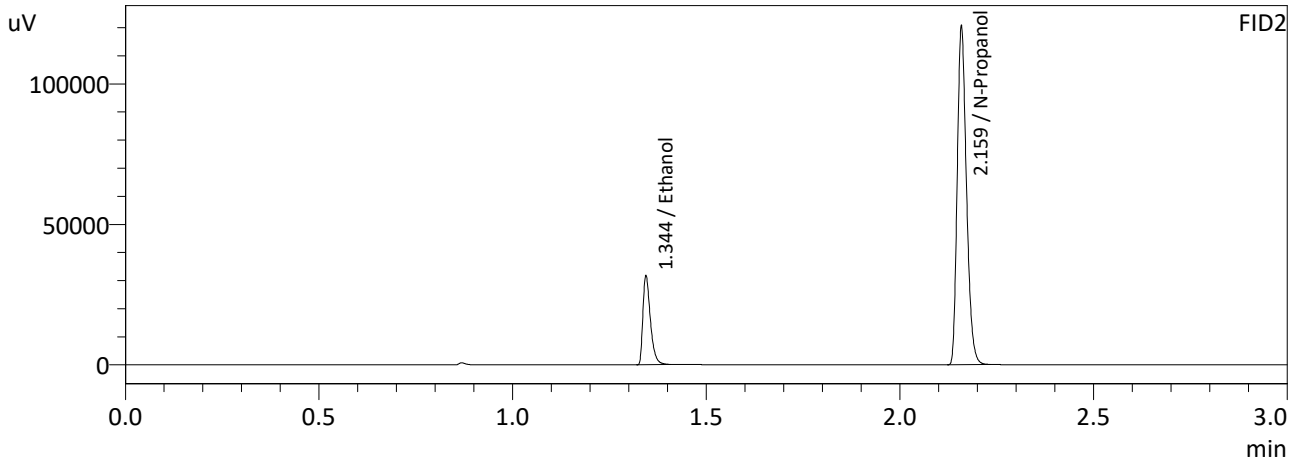
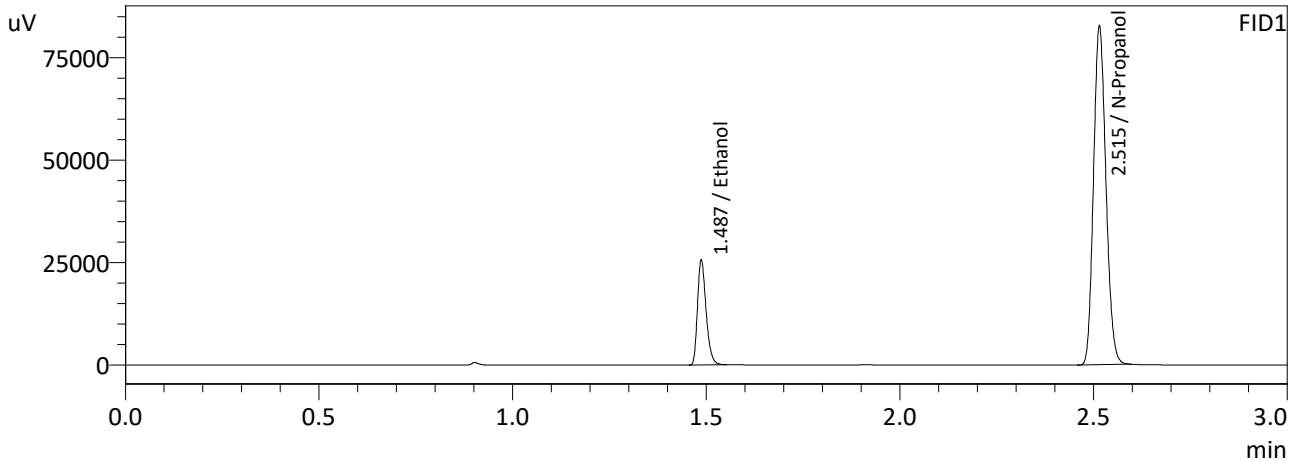
FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0527	24969	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	220839	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

NB



Sample Name : 0.100  
 Laboratory : Meridian  
 Injection Date : 2/10/2023 2:23:44 PM  
 Vial # : 2  
 Method Filename : Default Project - ALCOHOL\_230210NB.gcm  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

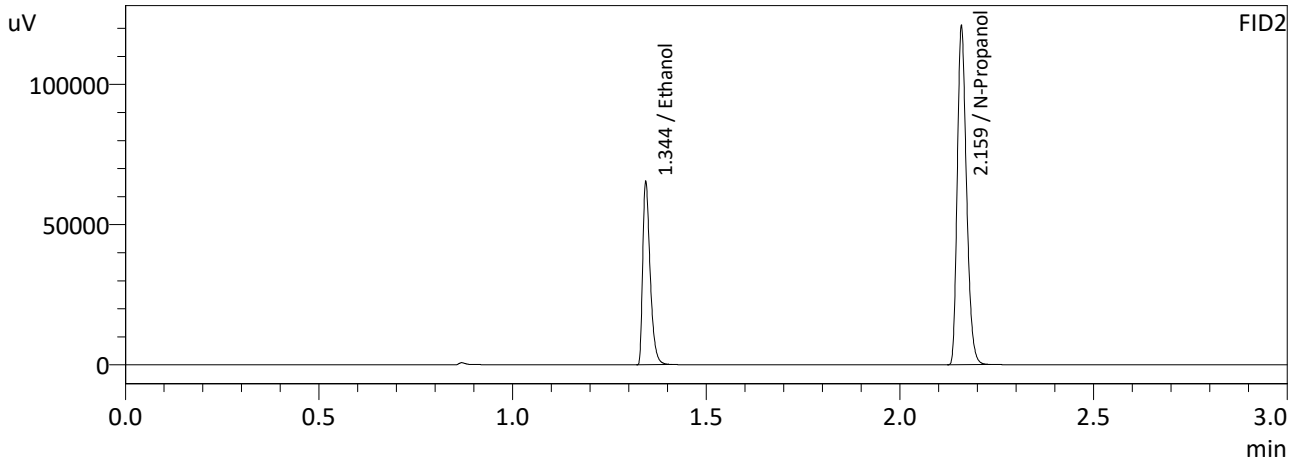
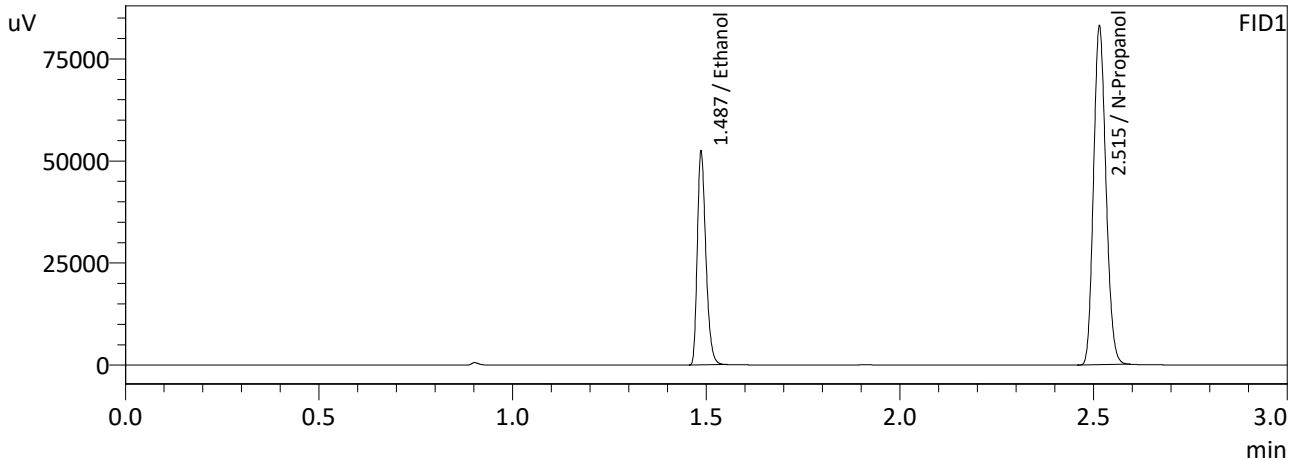
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0976	39427	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	184174	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0974	42441	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	199876	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

NB

Sample Name : 0.200  
 Laboratory : Meridian  
 Injection Date : 2/10/2023 2:31:28 PM  
 Vial # : 3  
 Method Filename : Default Project - ALCOHOL\_230210NB.gcm  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

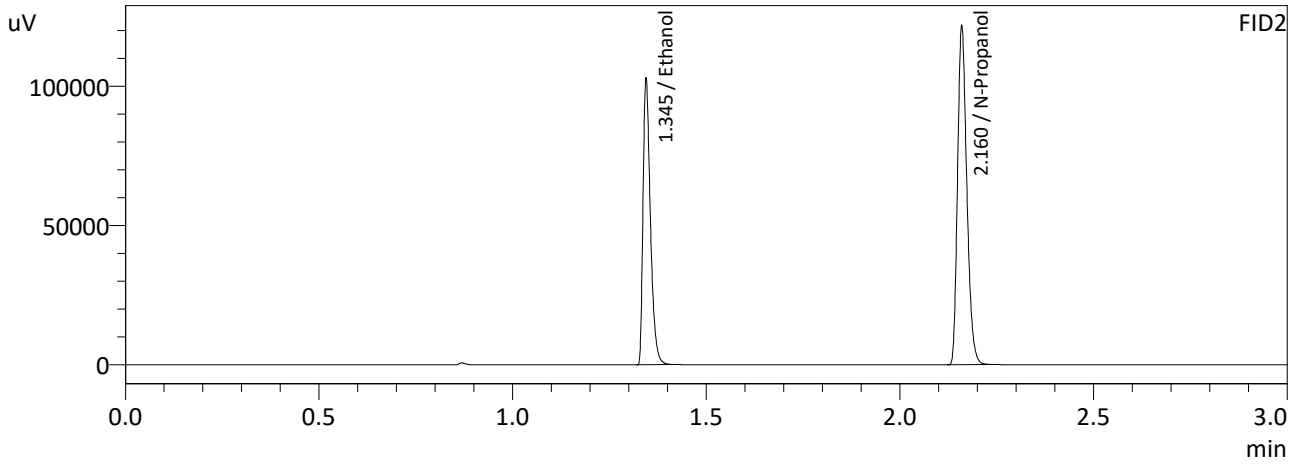
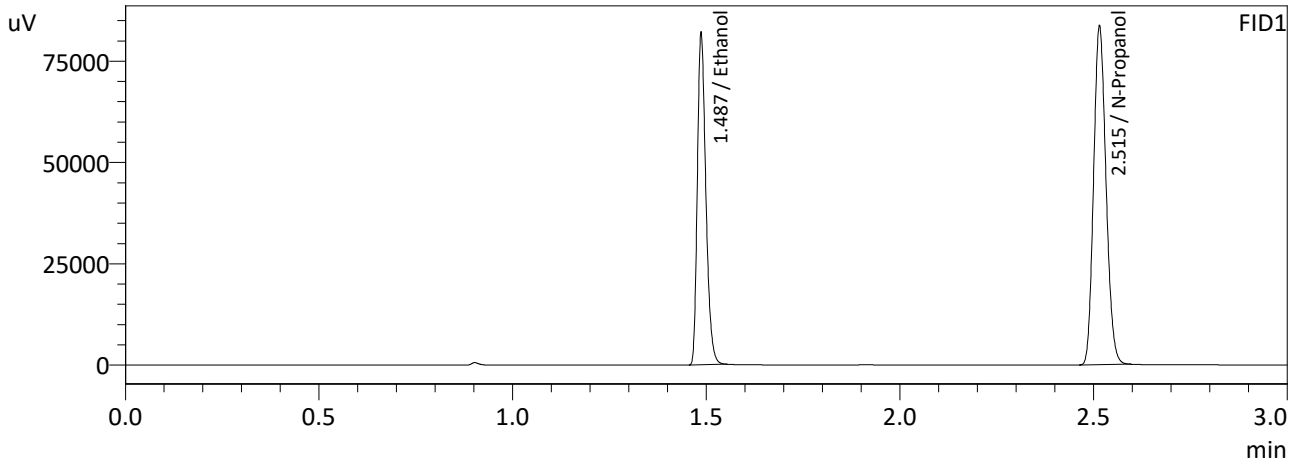
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1966	80233	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	184713	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1966	86791	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	200485	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

NB

Sample Name : 0.300  
 Laboratory : Meridian  
 Injection Date : 2/10/2023 2:40:02 PM  
 Vial # : 4  
 Method Filename : Default Project - ALCOHOL\_230210NB.gcm  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

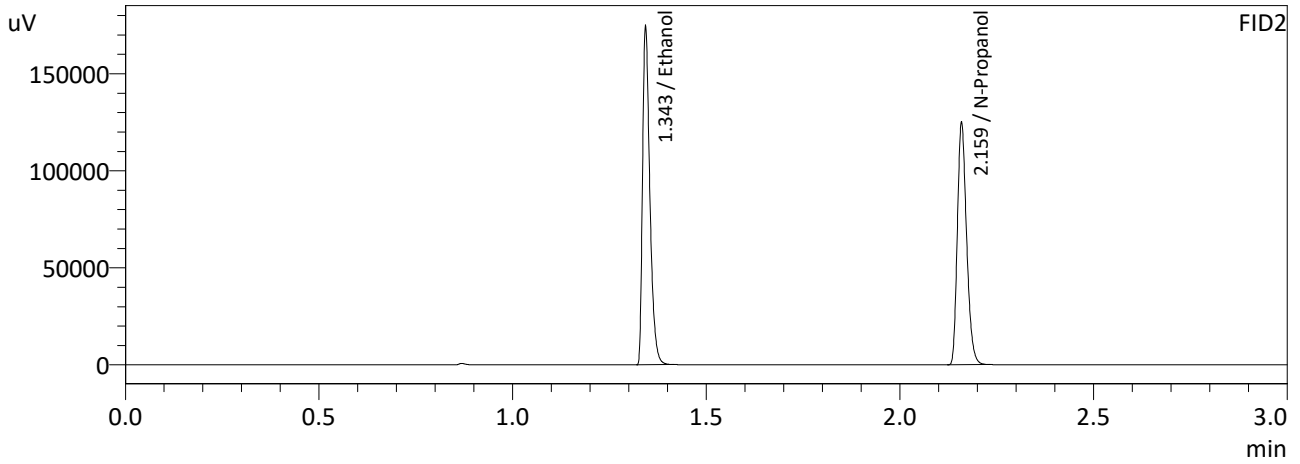
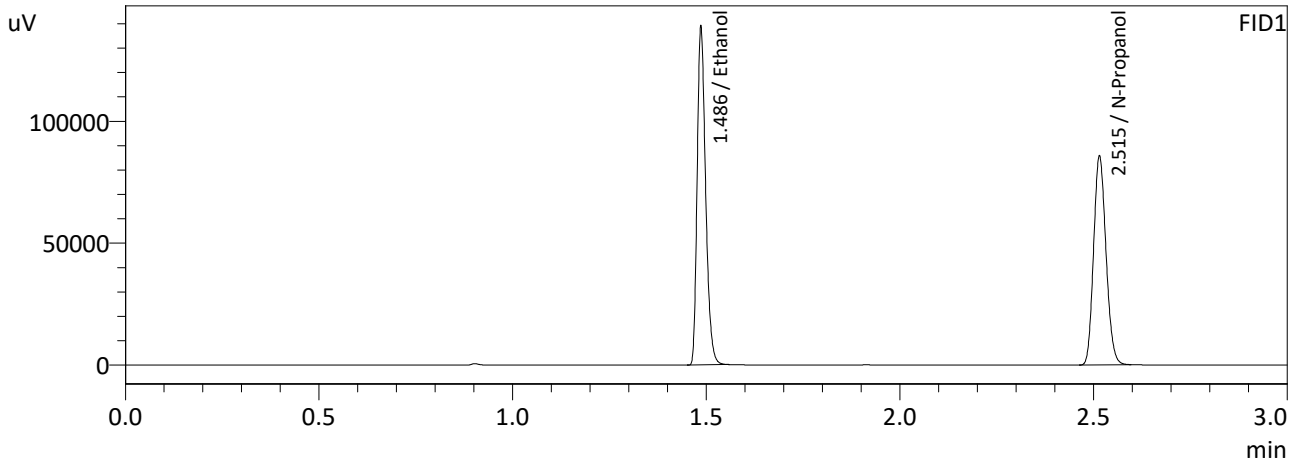
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.3038	125233	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	186167	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.3039	135759	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	202238	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

NB

Sample Name : 0.500  
 Laboratory : Meridian  
 Injection Date : 2/10/2023 2:48:33 PM  
 Vial # : 5  
 Method Filename : Default Project - ALCOHOL\_230210NB.gcm  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

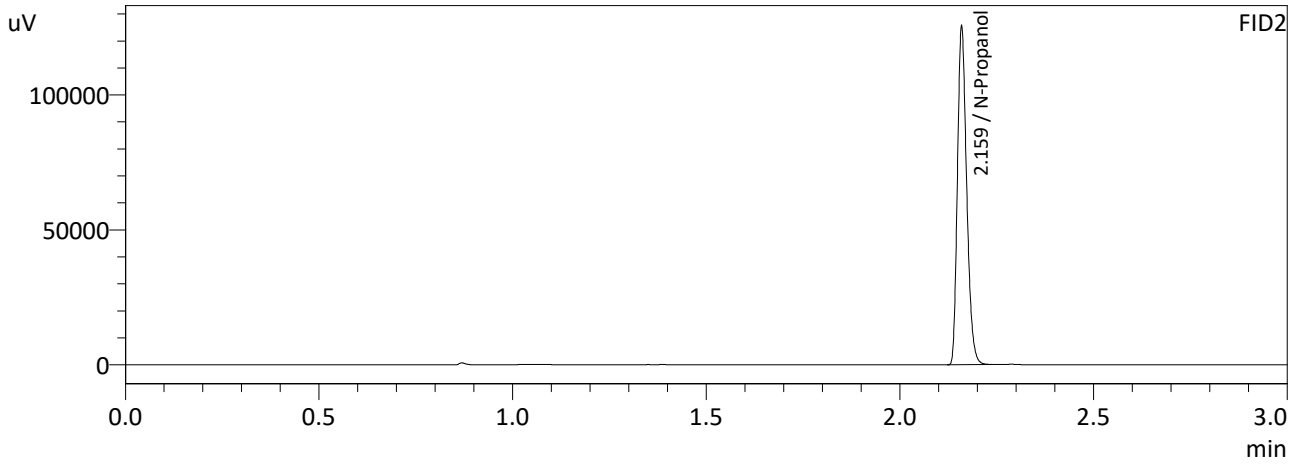
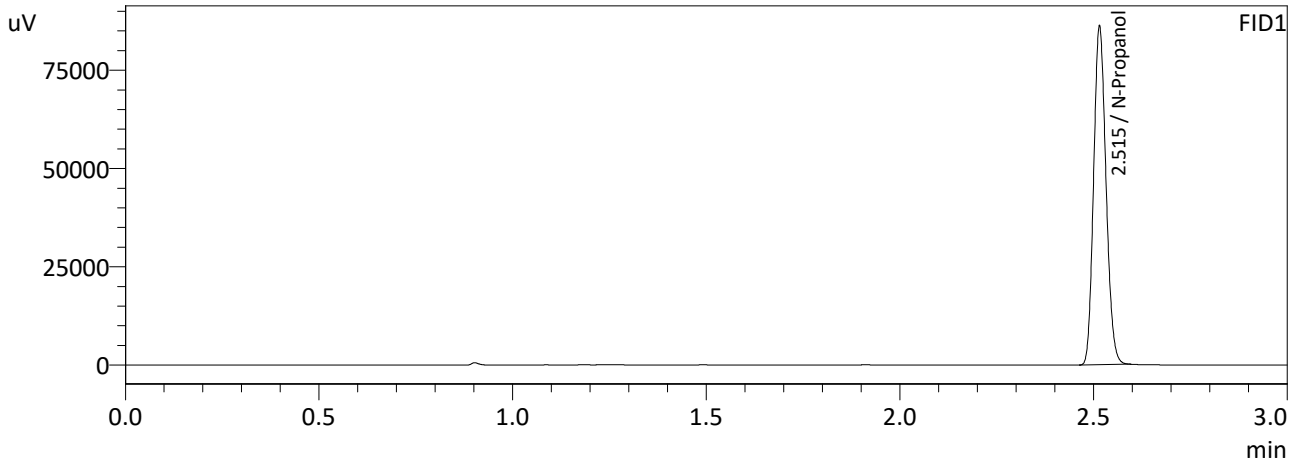
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.4992	211324	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	190850	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.4992	228830	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	207043	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

NB

Sample Name : INT STD BLK  
 Laboratory : Meridian  
 Injection Date : 2/10/2023 2:56:11 PM  
 Vial # : 6  
 Method Filename : Default Project - ALCOHOL\_230210NB.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	191690	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	208332	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

NB

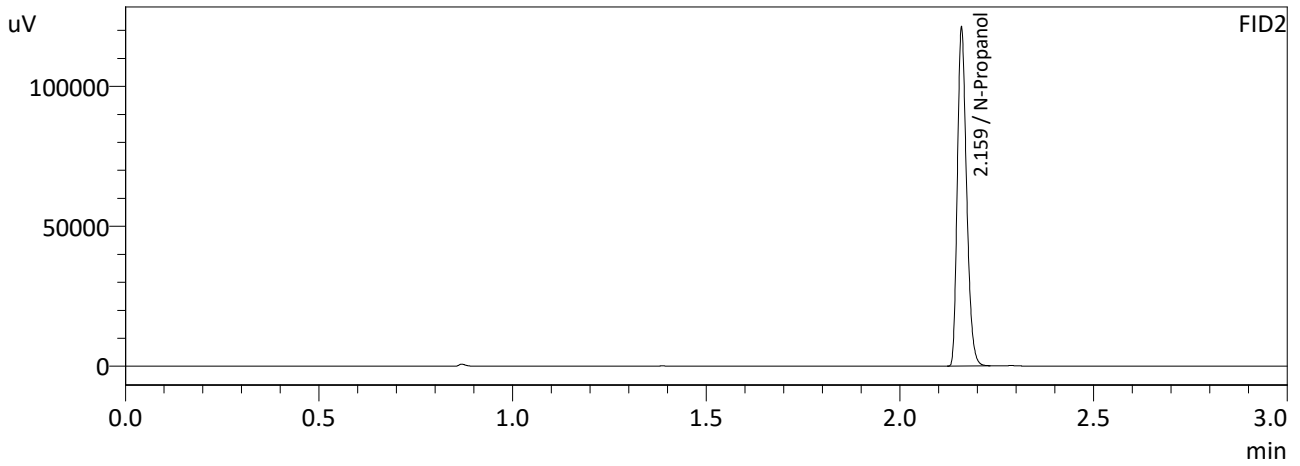
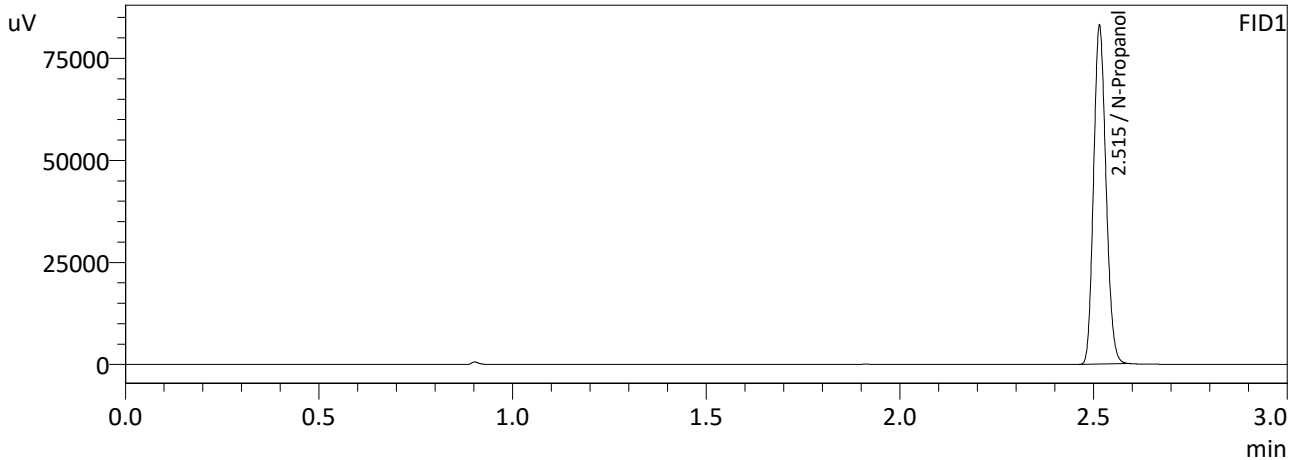
# Meridian Blood Alcohol Analysis Batch Table

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 230210NB.gcm
2	0.100	1:Standard	2	ALCOHOL 230210NB.gcm
3	0.200	1:Standard	3	ALCOHOL 230210NB.gcm
4	0.300	1:Standard	4	ALCOHOL 230210NB.gcm
5	0.500	1:Standard	5	ALCOHOL 230210NB.gcm
6	INT STD BLK	0:Unknown	0	ALCOHOL 230210NB.gcm

NB

Sample Name : INT STD BLK 1  
 Laboratory : Meridian  
 Injection Date : 2/10/2023 4:26:12 PM  
 Vial # : 1  
 Method Filename : Default Project - ALCOHOL\_230210NB.gcm  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

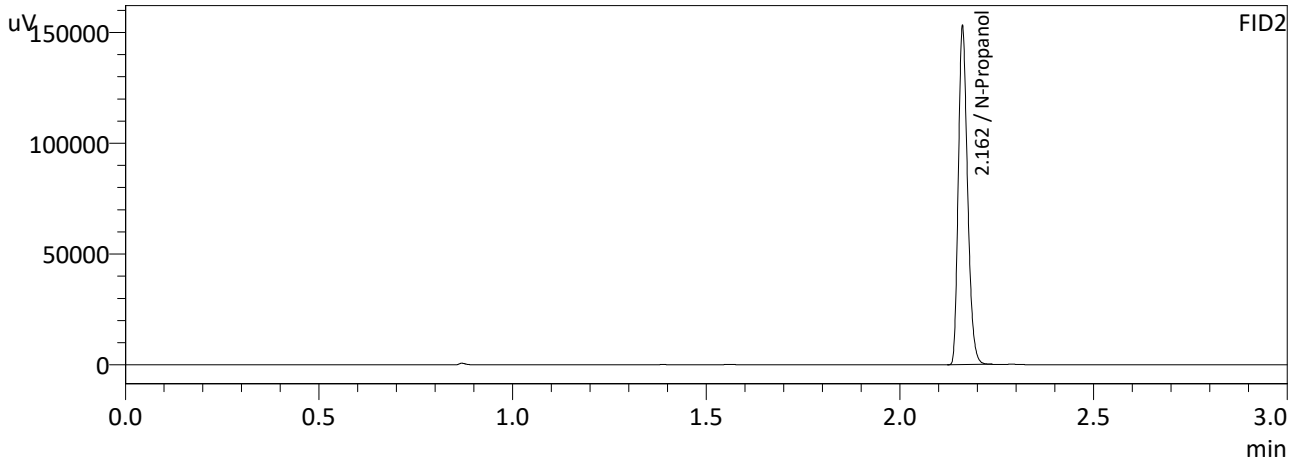
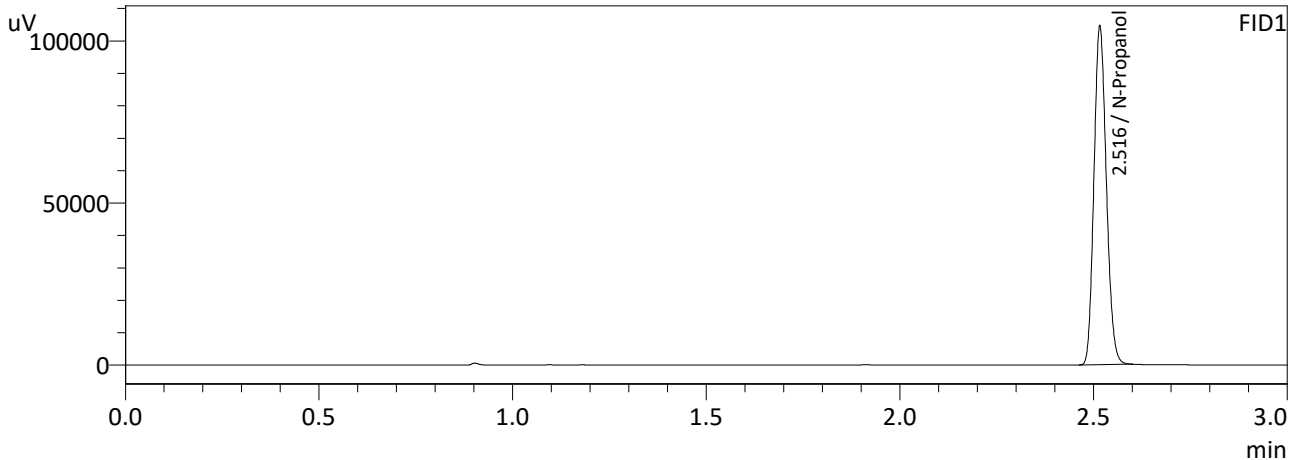
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	184802	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	200759	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

NB

Sample Name : INT STD BLK 2  
 Laboratory : Meridian  
 Injection Date : 2/10/2023 11:00:16 PM  
 Vial # : 49  
 Method Filename : Default Project - ALCOHOL\_230210NB.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	232662	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

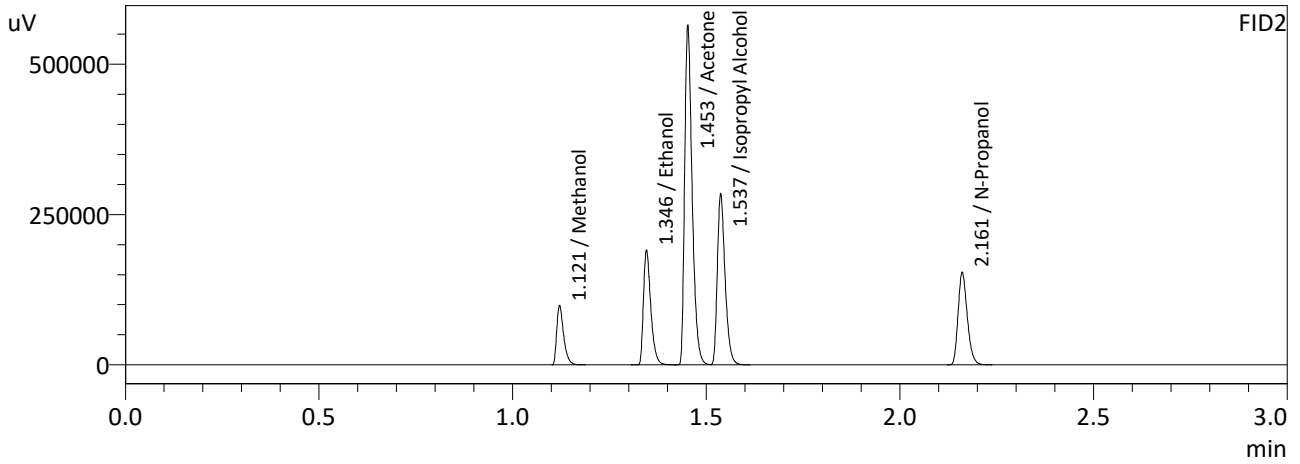
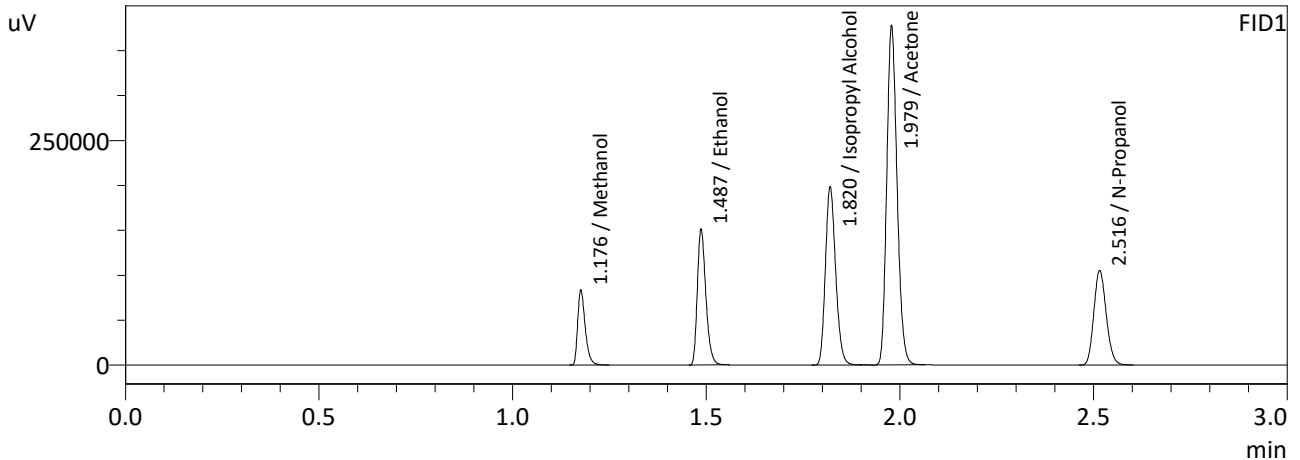
FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	253413	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

NB



Sample Name : MIXED VOLATILES FN 06041902  
 Laboratory : Meridian  
 Injection Date : 2/10/2023 4:33:33 PM  
 Vial # : 2  
 Method Filename : Default Project - ALCOHOL\_230210NB.gcm  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	0.0000	112611	g/100cc
Ethanol	0.4457	230998	g/100cc
Isopropyl Alcohol	0.0000	364788	g/100cc
Acetone	0.0000	698455	g/100cc
N-Propanol	0.0000	233755	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	0.0000	122390	g/100cc
Ethanol	0.4465	250440	g/100cc
Acetone	0.0000	757977	g/100cc
Isopropyl Alcohol	0.0000	395482	g/100cc
N-Propanol	0.0000	253450	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

NB

**VOLATILES BAC CASEFILE WORKSHEET**

**Laboratory No.: 0.080**

**Item #**

**Analysis Date(s): 2/10/23**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0771	0.0772	0.0001	0.0771	0.0016	0.0779
(g/100cc)	0.0787	0.0787	0.0000	0.0787		

**Analysis Method**

Refer to Blood Alcohol Method #1

**Instrument Information**

*Instrument information is stored centrally.*

Refer to Instrument Method: Alcohol.m/.gcm, Volatiles.m/.gcm, ALCOHOL\_230210NB.gcm

**Reporting of Results**

**Uncertainty of Measurement (UM%): 5.00%**

Overall Mean (g/100cc)	Low	High	5% of Mean
0.077	0.073	0.081	0.004

	Reported Result	Notes:
	0.077	

*Calibration and control data are stored centrally.*

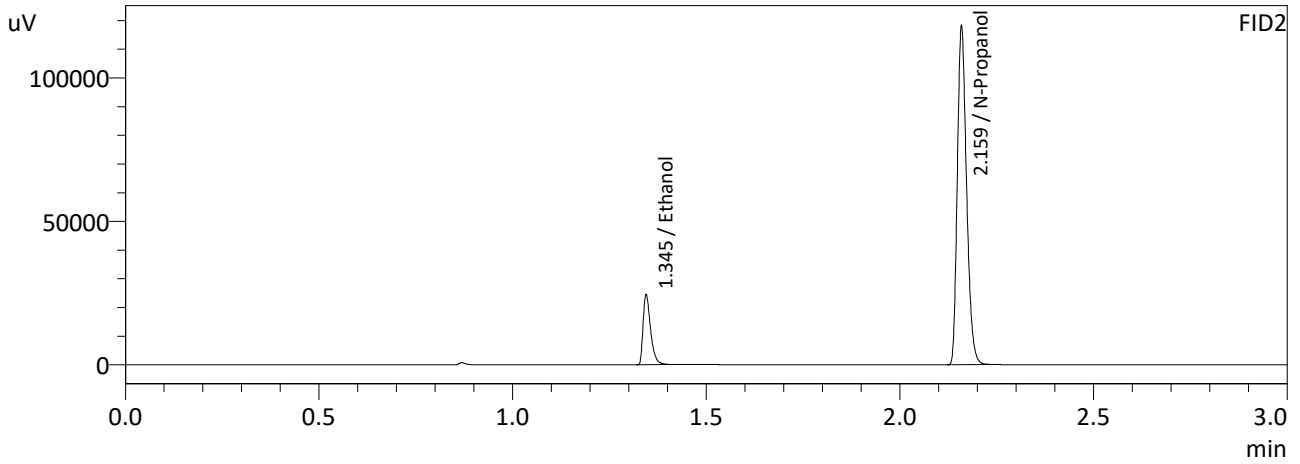
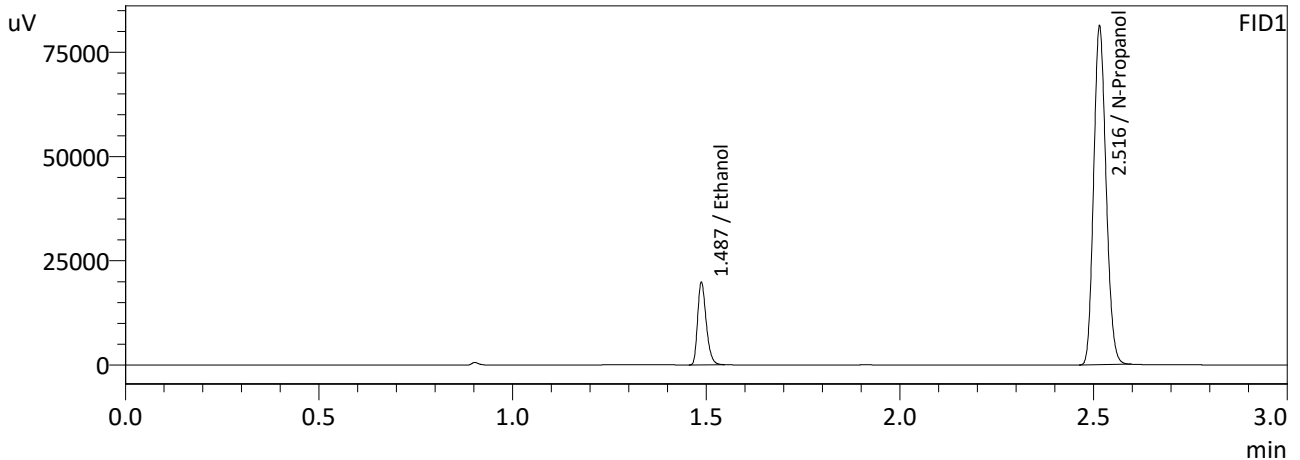
*NB*

Revision: 2

Issue Date: 12/27/2022

Issuing Authority: Quality Manager

Sample Name : 0.08 QA-A  
 Laboratory : Meridian  
 Injection Date : 2/10/2023 4:57:32 PM  
 Vial # : 5  
 Method Filename : Default Project - ALCOHOL\_230210NB.gcm  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

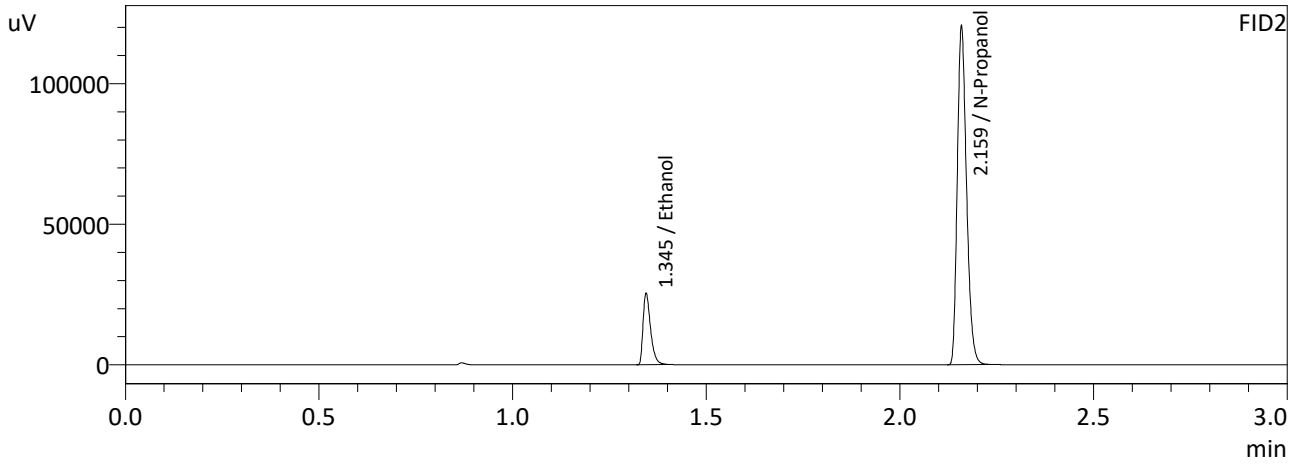
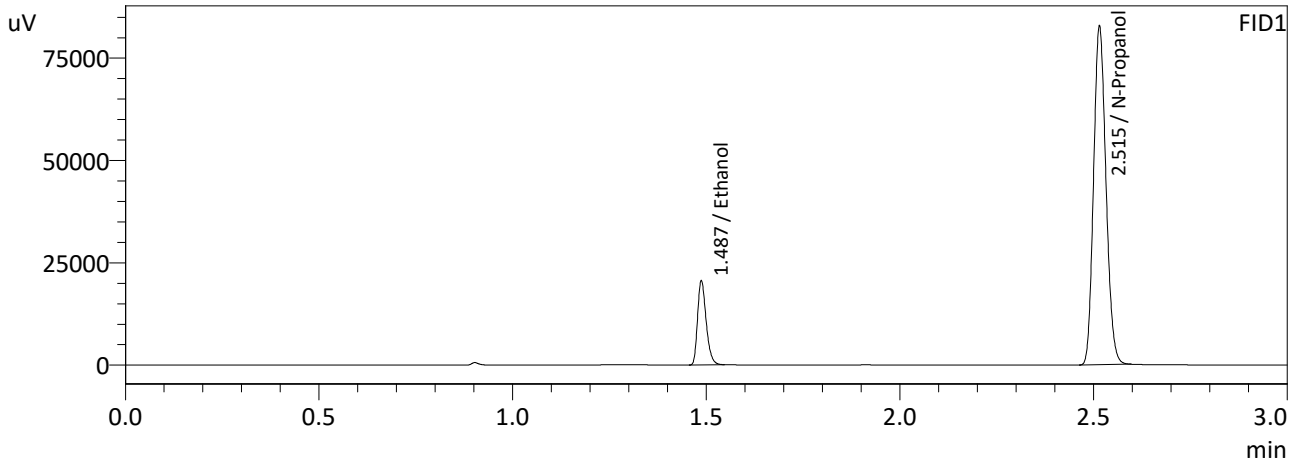
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0771	30478	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	180698	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0772	32834	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	196116	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

NB

Sample Name : 0.08 QA-B  
 Laboratory : Meridian  
 Injection Date : 2/10/2023 5:06:05 PM  
 Vial # : 6  
 Method Filename : Default Project - ALCOHOL\_230210NB.gcm  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0787	31697	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	184225	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0787	34158	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	199912	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

NB

**VOLATILES BAC CASEFILE WORKSHEET**

Laboratory No.: QC1-1

Item #

Analysis Date(s): 2/10/23

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0753	0.0754	0.0001	0.0753	0.0022	0.0764
(g/100cc)	0.0775	0.0776	0.0001	0.0775		

**Analysis Method**

Refer to Blood Alcohol Method #1

**Instrument Information**

*Instrument information is stored centrally.*

Refer to Instrument Method: Alcohol.m/.gcm, Volatiles.m/.gcm, ALCOHOL\_230210NB.gcm

**Reporting of Results**

**Uncertainty of Measurement (UM%): 5.00%**

Overall Mean (g/100cc)	Low	High	5% of Mean
0.076	0.072	0.080	0.004

	Reported Result	Notes:
	0.076	

*Calibration and control data are stored centrally.*

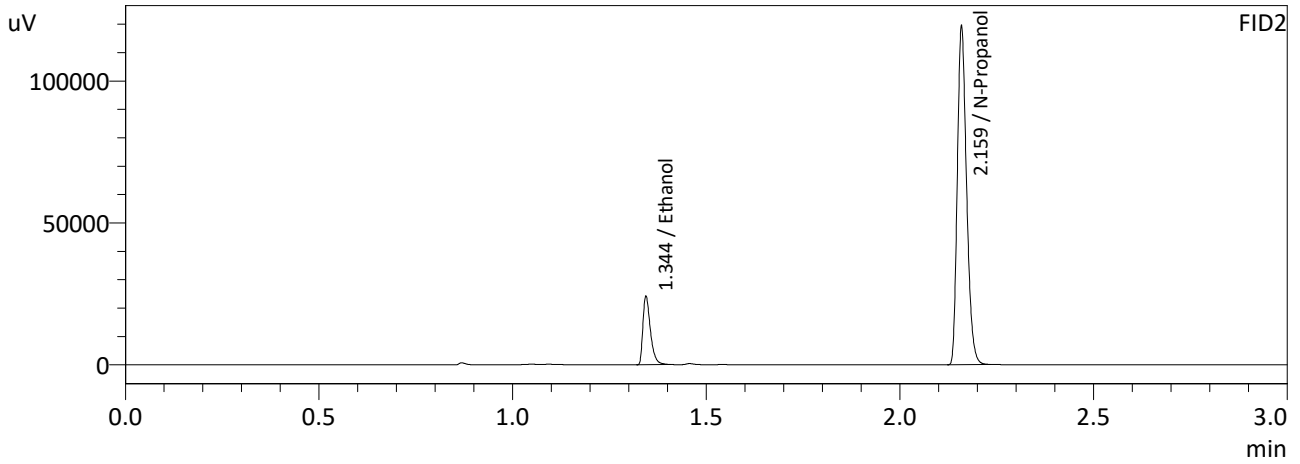
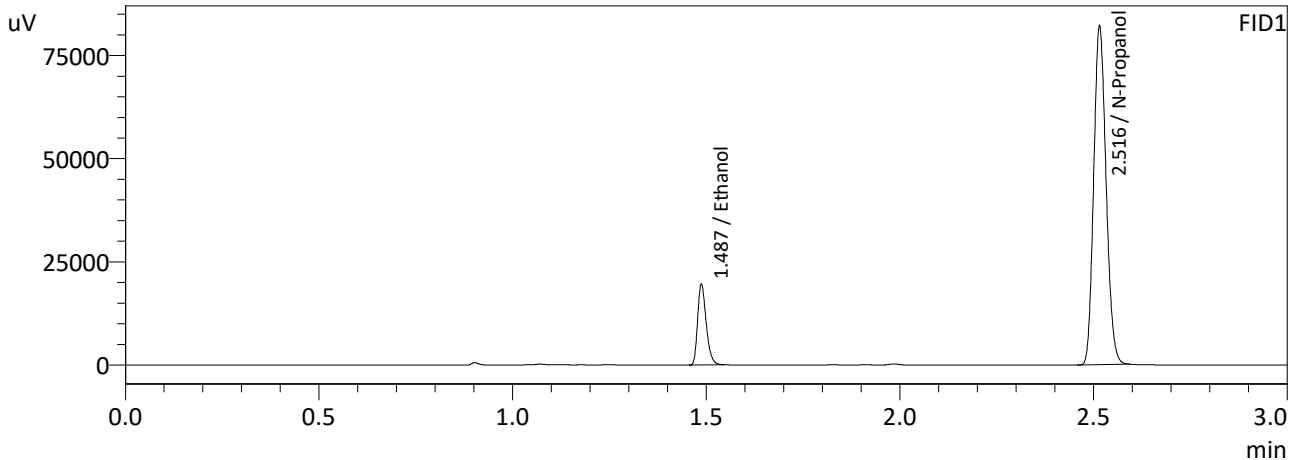
*NB*

Revision: 2

Issue Date: 12/27/2022

Issuing Authority: Quality Manager

Sample Name : QC-1-1-A  
 Laboratory : Meridian  
 Injection Date : 2/10/2023 4:41:09 PM  
 Vial # : 3  
 Method Filename : Default Project - ALCOHOL\_230210NB.gcm  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

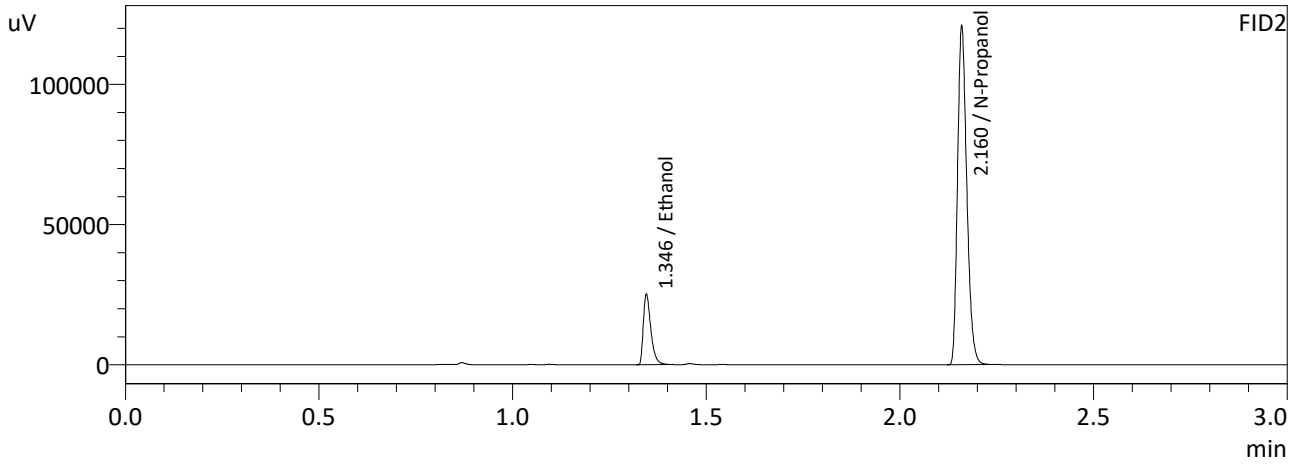
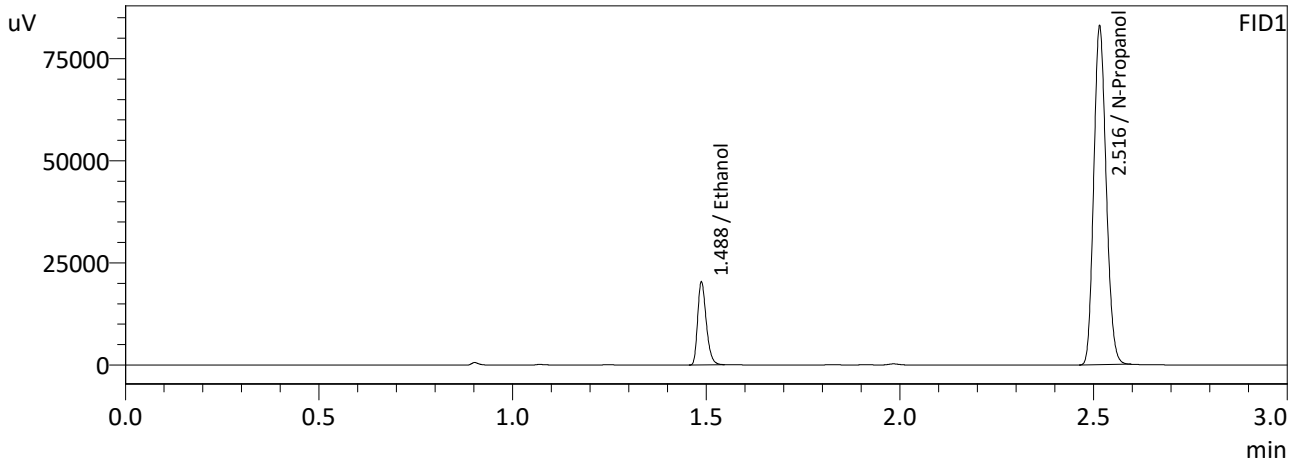
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0753	30076	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	182736	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0754	32452	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	198371	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

NB

Sample Name : QC-1-1-B  
 Laboratory : Meridian  
 Injection Date : 2/10/2023 4:49:40 PM  
 Vial # : 4  
 Method Filename : Default Project - ALCOHOL\_230210NB.gcm  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0775	31317	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	184778	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0776	33779	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	200725	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

NB

## VOLATILES BAC CASEFILE WORKSHEET

**Laboratory No.:** QC1-2

**Item #**

**Analysis Date(s):** 2/10/23

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0806	0.0808	0.0002	0.0807	0.0006	0.0810
(g/100cc)	0.0812	0.0814	0.0002	0.0813		

**Analysis Method**

Refer to Blood Alcohol Method #1

**Instrument Information**

*Instrument information is stored centrally.*

Refer to Instrument Method: Alcohol.m/.gcm, Volatiles.m/.gcm,  
ALCOHOL\_230210NB.gcm

**Reporting of Results**

**Uncertainty of Measurement (UM%): 5.00%**

Overall Mean (g/100cc)	Low	High	5% of Mean
0.081	0.076	0.086	0.005

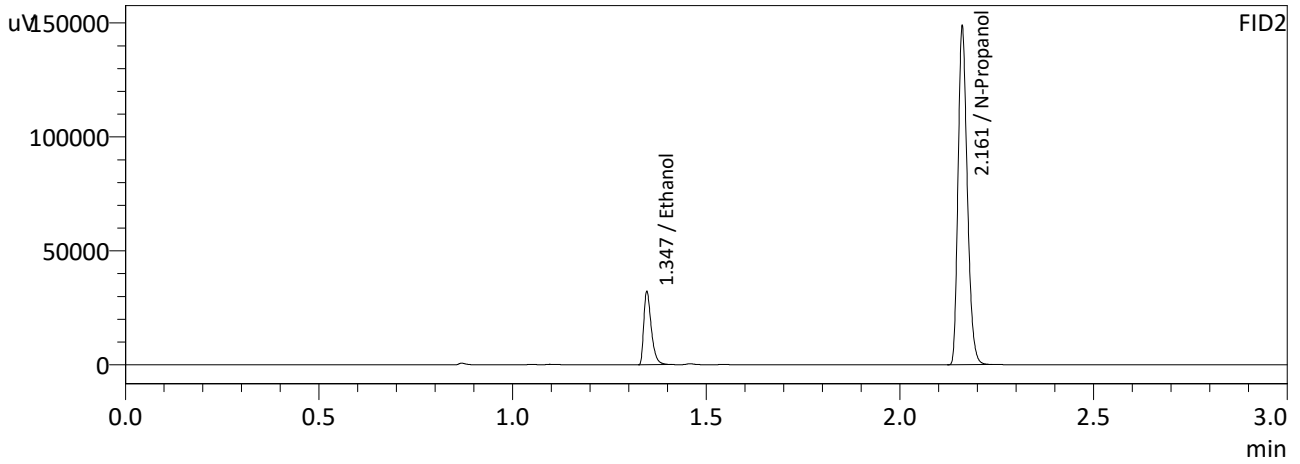
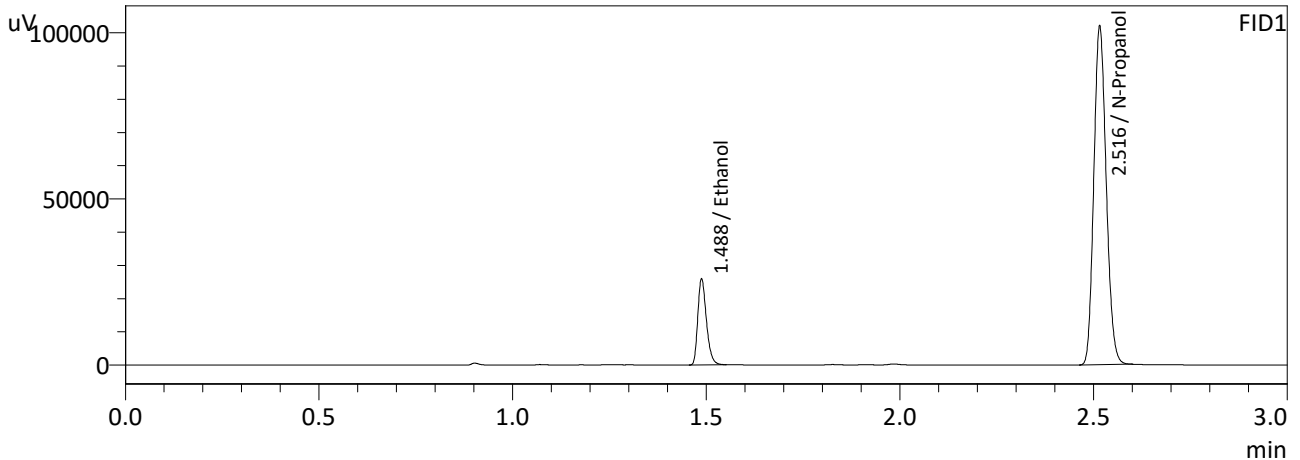
	<b>Reported Result</b> <hr style="border-top: 2px dashed black;"/> 0.081	<b>Notes:</b>
--	---	---------------

*Calibration and control data are stored centrally.*

*NB*



Sample Name : QC1-2  
 Laboratory : Meridian  
 Injection Date : 2/10/2023 10:28:19 PM  
 Vial # : 45  
 Method Filename : Default Project - ALCOHOL\_230210NB.gcm  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

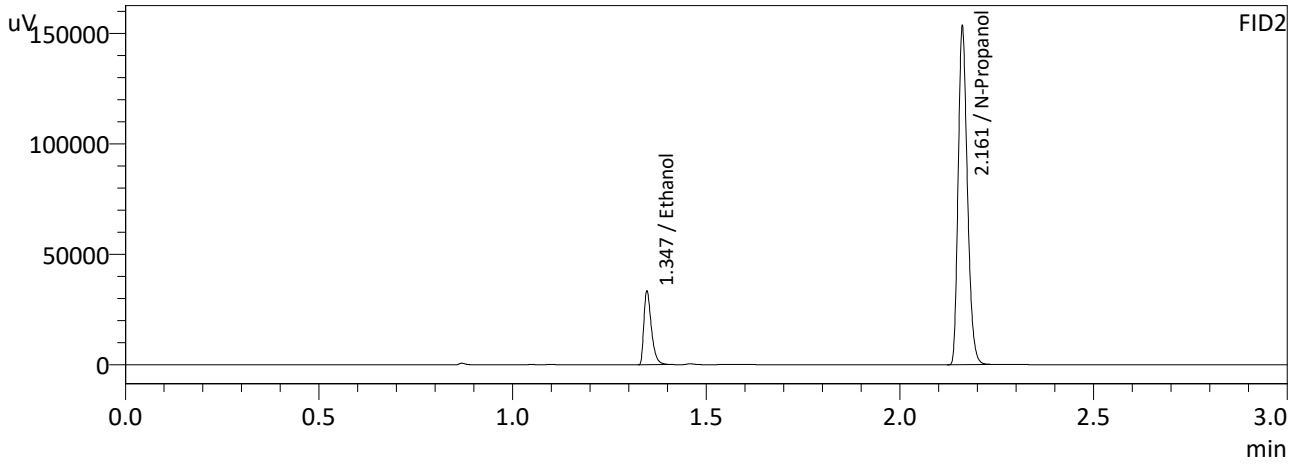
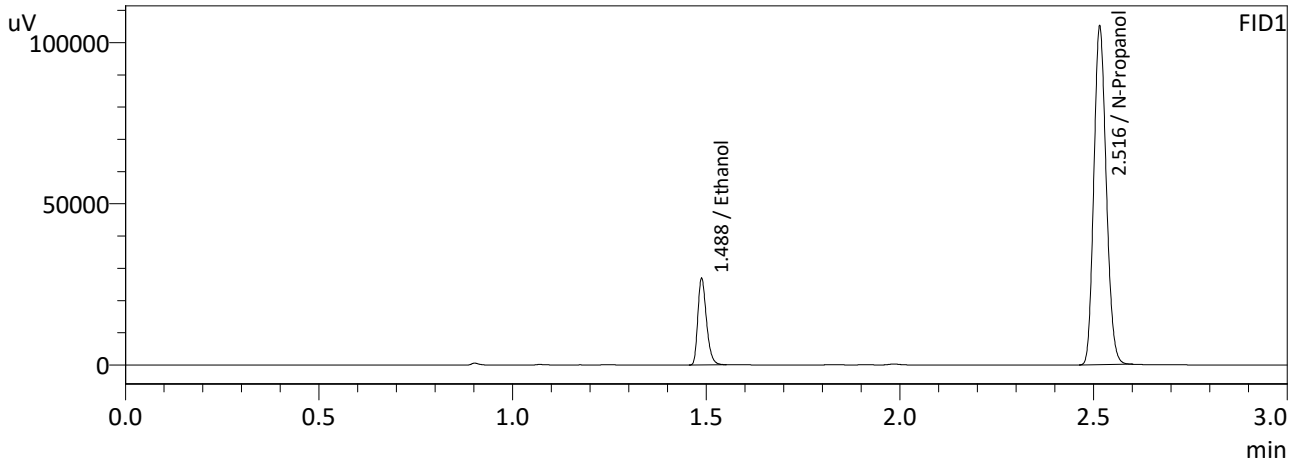
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0806	40019	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	226934	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0808	43261	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	246633	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

NB

Sample Name : QC1-2-B  
 Laboratory : Meridian  
 Injection Date : 2/10/2023 10:35:22 PM  
 Vial # : 46  
 Method Filename : Default Project - ALCOHOL\_230210NB.gcm  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0812	41517	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	233613	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0814	44878	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	253920	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

NB

## VOLATILES BAC CASEFILE WORKSHEET

**Laboratory No.:** QC2-1

**Item #**

**Analysis Date(s):** 2/10/23

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.2070	0.2070	0.0000	0.2070	0.0018	0.2079
(g/100cc)	0.2086	0.2091	0.0005	0.2088		

**Analysis Method**

Refer to Blood Alcohol Method #1

**Instrument Information**

*Instrument information is stored centrally.*

Refer to Instrument Method: Alcohol.m/.gcm, Volatiles.m/.gcm,  
ALCOHOL\_230210NB.gcm

**Reporting of Results**

**Uncertainty of Measurement (UM%): 5.00%**

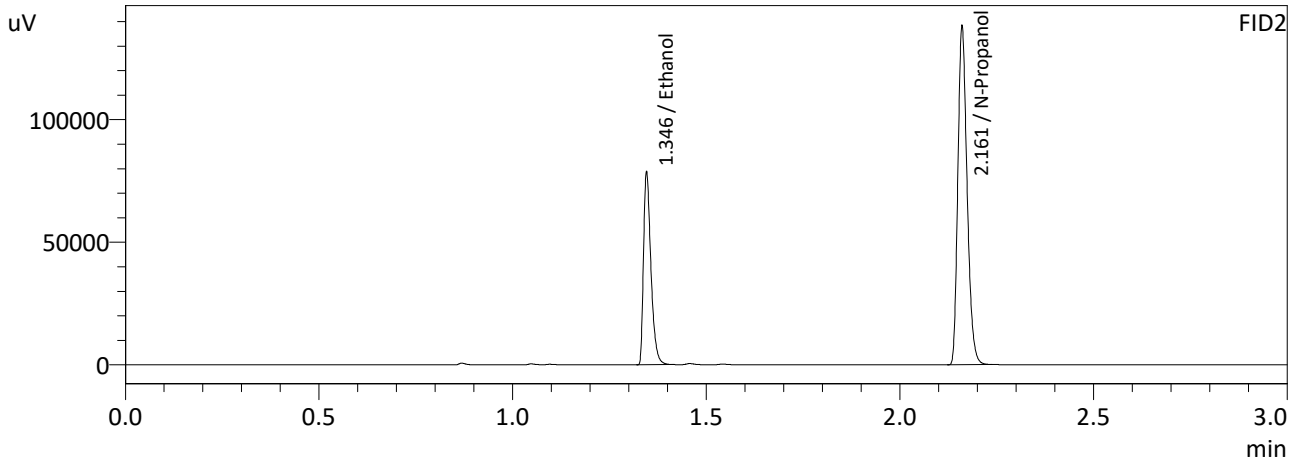
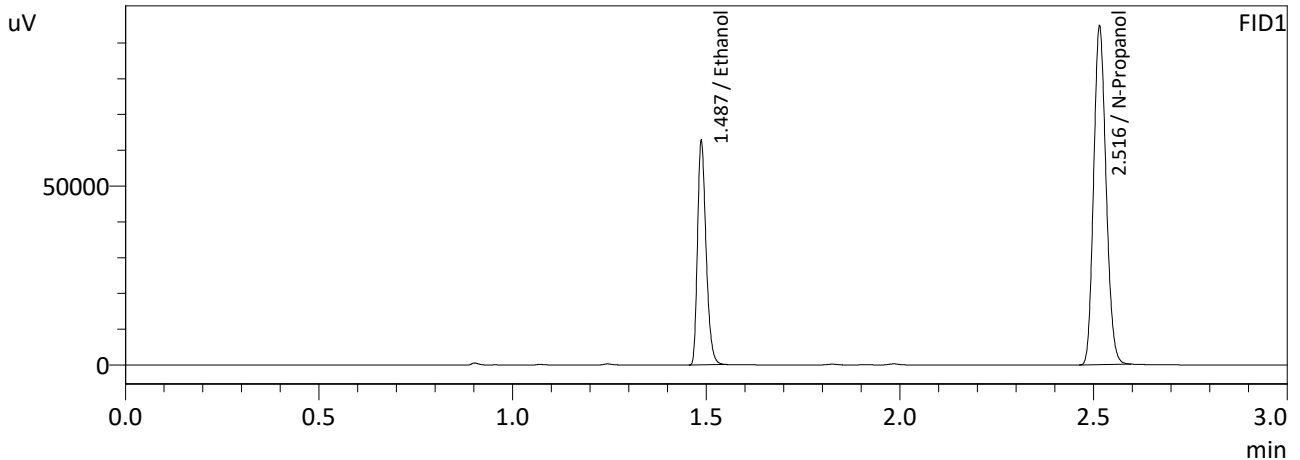
Overall Mean (g/100cc)	Low	High	5% of Mean
0.207	0.196	0.218	0.011

	<p><b>Reported Result</b></p> <hr style="border-top: 2px dashed black;"/> <p style="text-align: center;">0.207</p>	<p><b>Notes:</b></p>
--	--	----------------------

*Calibration and control data are stored centrally.*

*NB*

Sample Name : QC-2-1  
 Laboratory : Meridian  
 Injection Date : 2/10/2023 7:41:37 PM  
 Vial # : 25  
 Method Filename : Default Project - ALCOHOL\_230210NB.gcm  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

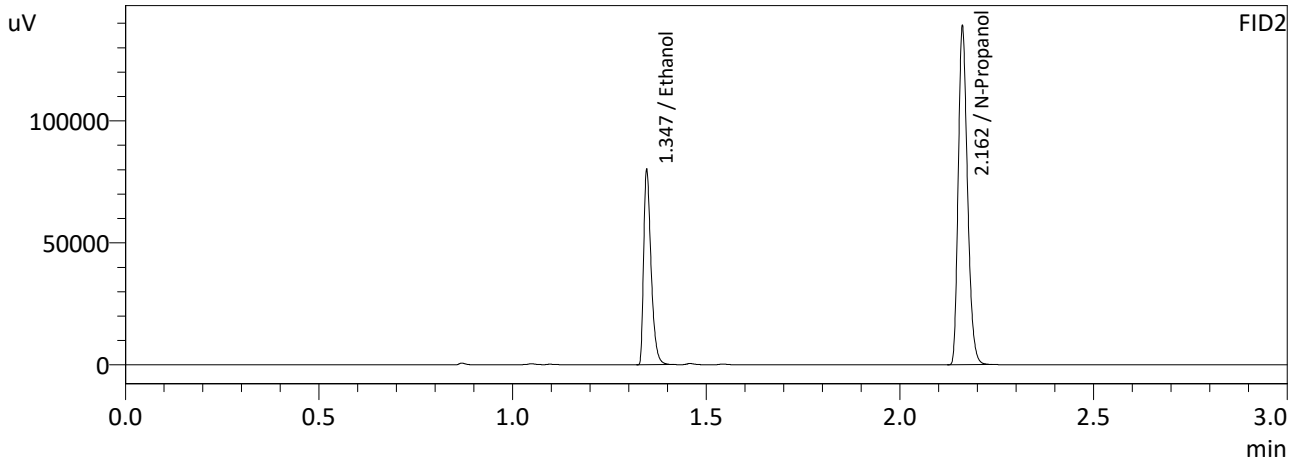
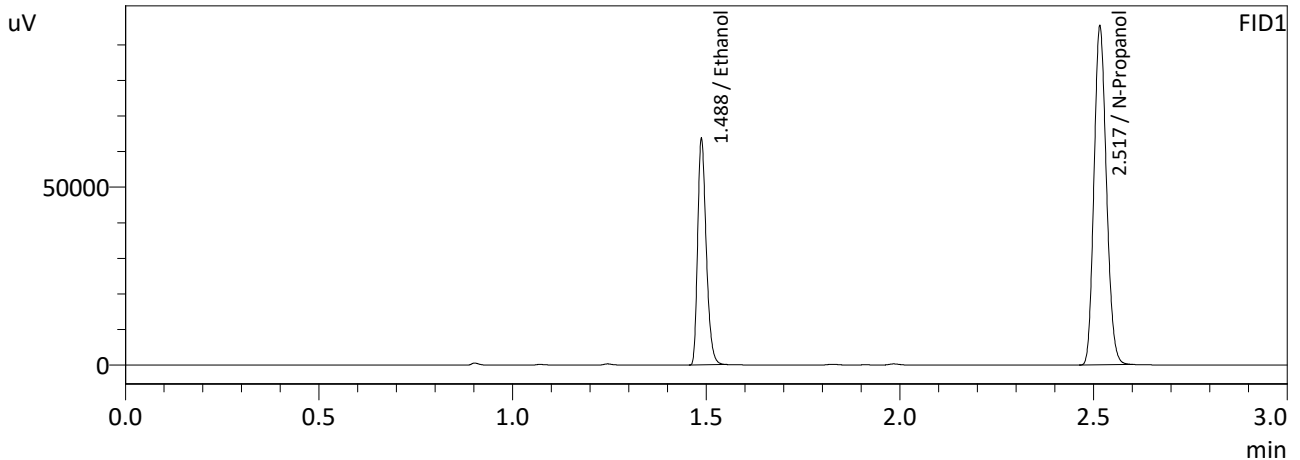
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2070	96344	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	210589	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2070	104483	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	229153	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

NB

Sample Name : QC-2-1-B  
 Laboratory : Meridian  
 Injection Date : 2/10/2023 7:49:57 PM  
 Vial # : 26  
 Method Filename : Default Project - ALCOHOL\_230210NB.gcm  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2086	97803	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	212141	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2091	106225	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	230646	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

NB

**VOLATILES BAC CASEFILE WORKSHEET**

**Laboratory No.:** QC2-2

**Item #**

**Analysis Date(s):** 2/10/23

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.2098	0.2101	0.0003	0.2099	0.0014	0.2092
(g/100cc)	0.2083	0.2087	0.0004	0.2085		

**Analysis Method**

Refer to Blood Alcohol Method #1

**Instrument Information**

*Instrument information is stored centrally.*

Refer to Instrument Method: Alcohol.m/.gcm, Volatiles.m/.gcm, ALCOHOL\_230210NB.gcm

**Reporting of Results**

**Uncertainty of Measurement (UM%): 5.00%**

Overall Mean (g/100cc)	Low	High	5% of Mean
0.209	0.198	0.220	0.011

	Reported Result	Notes:
	0.209	

*Calibration and control data are stored centrally.*

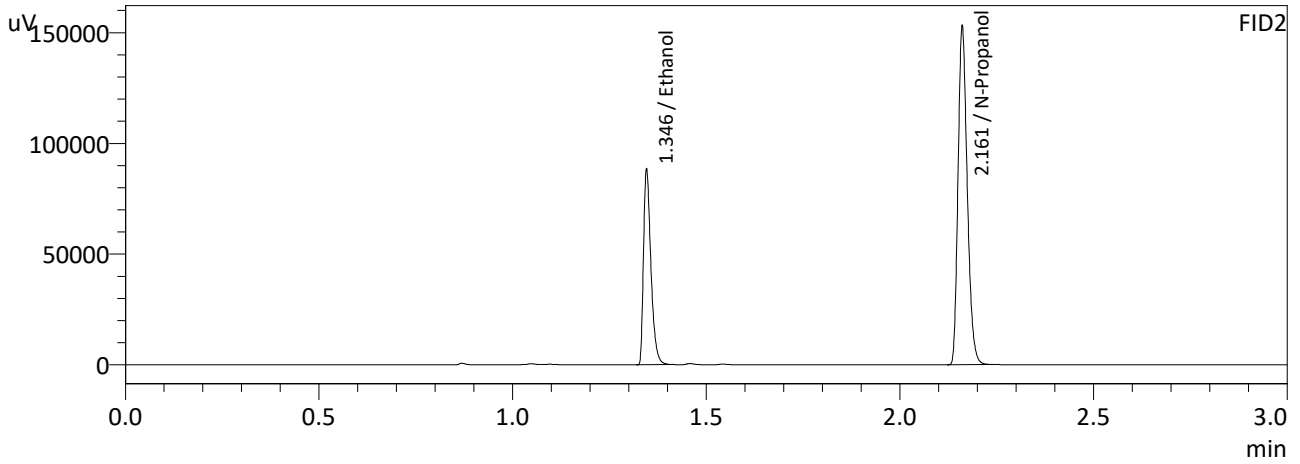
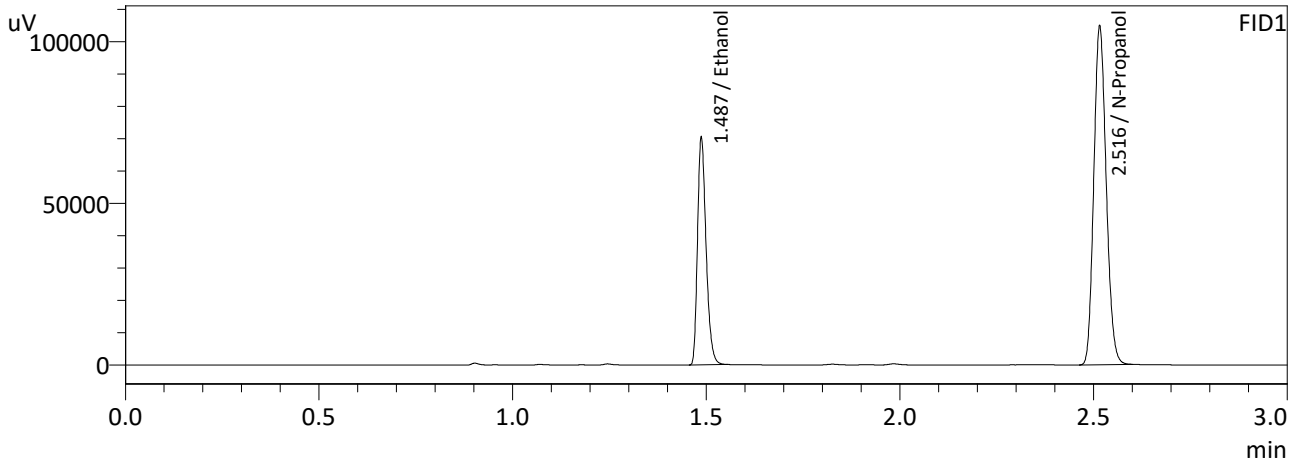
*NB*

Revision: 2

Issue Date: 12/27/2022

Issuing Authority: Quality Manager

Sample Name : QC2-2  
 Laboratory : Meridian  
 Injection Date : 2/10/2023 10:43:41 PM  
 Vial # : 47  
 Method Filename : Default Project - ALCOHOL\_230210NB.gcm  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

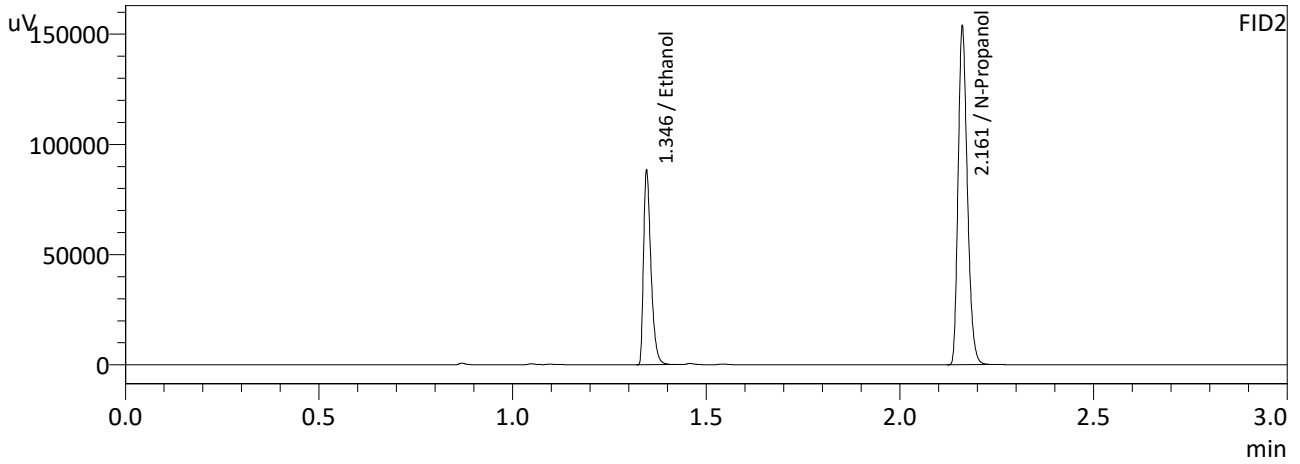
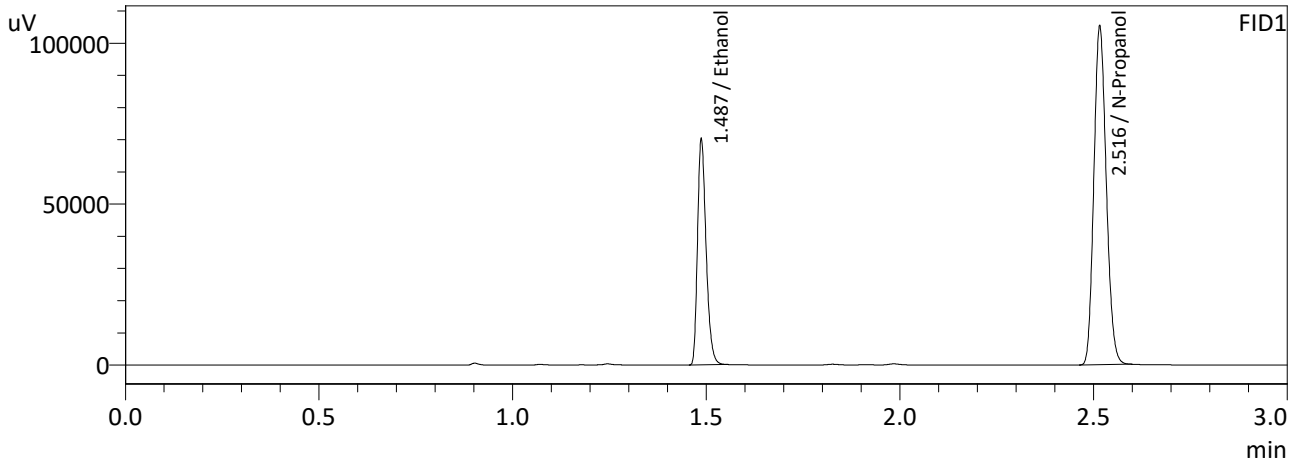
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2098	108025	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	232976	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2101	117257	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	253324	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

NB

Sample Name : QC2-2-B  
 Laboratory : Meridian  
 Injection Date : 2/10/2023 10:53:10 PM  
 Vial # : 48  
 Method Filename : Default Project - ALCOHOL\_230210NB.gcm  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2083	107884	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	234368	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2087	117108	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	254764	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

NB



# 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 230210NB.gcm
2	ED VOLATILES FN 0604	0:Unknown	1	ALCOHOL 230210NB.gcm
3	QC-1-1-A	0:Unknown	0	ALCOHOL 230210NB.gcm
4	QC-1-1-B	0:Unknown	0	ALCOHOL 230210NB.gcm
5	0.08 QA-A	0:Unknown	0	ALCOHOL 230210NB.gcm
6	0.08 QA-B	0:Unknown	0	ALCOHOL 230210NB.gcm
7	M2023-0478-1	0:Unknown	0	ALCOHOL 230210NB.gcm
8	M2023-0478-1-B	0:Unknown	0	ALCOHOL 230210NB.gcm
9	M2023-0501-1	0:Unknown	0	ALCOHOL 230210NB.gcm
10	M2023-0501-1-B	0:Unknown	0	ALCOHOL 230210NB.gcm
11	M2023-0502-1	0:Unknown	0	ALCOHOL 230210NB.gcm
12	M2023-0502-1-B	0:Unknown	0	ALCOHOL 230210NB.gcm
13	M2023-0512-1	0:Unknown	0	ALCOHOL 230210NB.gcm
14	M2023-0512-1-B	0:Unknown	0	ALCOHOL 230210NB.gcm
15	M2023-0513-1	0:Unknown	0	ALCOHOL 230210NB.gcm
16	M2023-0513-1-B	0:Unknown	0	ALCOHOL 230210NB.gcm
17	M2023-0514-1	0:Unknown	0	ALCOHOL 230210NB.gcm
18	M2023-0514-1-B	0:Unknown	0	ALCOHOL 230210NB.gcm
19	M2023-0529-1	0:Unknown	0	ALCOHOL 230210NB.gcm
20	M2023-0529-1-B	0:Unknown	0	ALCOHOL 230210NB.gcm
21	M2023-0549-1	0:Unknown	0	ALCOHOL 230210NB.gcm
22	M2023-0549-1-B	0:Unknown	0	ALCOHOL 230210NB.gcm
23	M2023-0574-1	0:Unknown	0	ALCOHOL 230210NB.gcm
24	M2023-0574-1-B	0:Unknown	0	ALCOHOL 230210NB.gcm
25	QC-2-1	0:Unknown	0	ALCOHOL 230210NB.gcm
26	QC-2-1-B	0:Unknown	0	ALCOHOL 230210NB.gcm
27	M2023-0576-1	0:Unknown	0	ALCOHOL 230210NB.gcm
28	M2023-0576-1-B	0:Unknown	0	ALCOHOL 230210NB.gcm
29	M2023-0577-1	0:Unknown	0	ALCOHOL 230210NB.gcm
30	M2023-0577-1-B	0:Unknown	0	ALCOHOL 230210NB.gcm
31	M2023-0597-1	0:Unknown	0	ALCOHOL 230210NB.gcm
32	M2023-0597-1-B	0:Unknown	0	ALCOHOL 230210NB.gcm
33	M2023-0597-2	0:Unknown	0	ALCOHOL 230210NB.gcm
34	M2023-0597-2-B	0:Unknown	0	ALCOHOL 230210NB.gcm
35	M2023-0597-3	0:Unknown	0	ALCOHOL 230210NB.gcm
36	M2023-0597-3-B	0:Unknown	0	ALCOHOL 230210NB.gcm
37	M2023-0597-4	0:Unknown	0	ALCOHOL 230210NB.gcm
38	M2023-0597-4-B	0:Unknown	0	ALCOHOL 230210NB.gcm
39	M2023-0605-1	0:Unknown	0	ALCOHOL 230210NB.gcm
40	M2023-0605-1-B	0:Unknown	0	ALCOHOL 230210NB.gcm
41	M2023-0606-1	0:Unknown	0	ALCOHOL 230210NB.gcm
42	M2023-0606-1-B	0:Unknown	0	ALCOHOL 230210NB.gcm
43	M2023-0607-1	0:Unknown	0	ALCOHOL 230210NB.gcm
44	M2023-0607-1-B	0:Unknown	0	ALCOHOL 230210NB.gcm
45	QC1-2	0:Unknown	0	ALCOHOL 230210NB.gcm
46	QC1-2-B	0:Unknown	0	ALCOHOL 230210NB.gcm
47	QC2-2	0:Unknown	0	ALCOHOL 230210NB.gcm
48	QC2-2-B	0:Unknown	0	ALCOHOL 230210NB.gcm
49	INT STD BLK 2	0:Unknown	0	ALCOHOL 230210NB.gcm

NB