

**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): 8/8/23**

**Calibration Date: (if different) 8/7/23**

**Worklist #: 6463**

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results	
Level 1	Feb-25	2101199	0.0808	0.0727-0.0889	0.0792 g/100cc	
					0.0807 g/100cc	
					g/100cc	
Level 2	Mar-26	2110181	0.2030	0.1827-0.2233	0.2130 g/100cc	
					0.2132 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>	0.99989	<b>Column2</b>	0.99992

**Ethanol Calibration Reference Material**

Calibrator level	Target Value	Acceptable Range	Column 1	Column 2	Precision	Mean
50	0.050	0.045 - 0.055	0.0498	0.0496	0.0002	0.0497
100	0.100	0.090 - 0.110	0.0978	0.0983	0.0005	0.098
200	0.200	0.180 - 0.220	0.2026	0.2021	0.0005	0.2023
300	0.300	0.270 - 0.330	0.3007	0.3009	0.0002	0.3008
400	0.400	0.360 - 0.440			0	#DIV/0!
500	0.500	0.450 - 0.550	0.4989	0.4989	0	0.4989

**Aqueous Controls**

Control level	Target Value	Acceptable Range	Overall Results
80	0.080	0.076 - 0.084	0.079 g/100cc

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**Internal Standard Monitoring Worksheet**

<b>Worklist #:</b>	<b>6463</b>	<b>Run Date(s):</b>	<b>8/8/23</b>
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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	201375	218013
0.080	194398	210483
QC1	195721	211933
QC1	195956	211857
QC1	231390	250710
QC1	236902	256643
QC1		
QC1		
QC2	216511	234633
QC2	224880	243653
QC2	228820	247879
QC2	238120	258209
QC2		
QC2		

	Average	(-)20%	(+)20%
Column 1	216407.3	173125.8	259688.8
Column 2	234401.3	187521.0	281281.6

*JG*

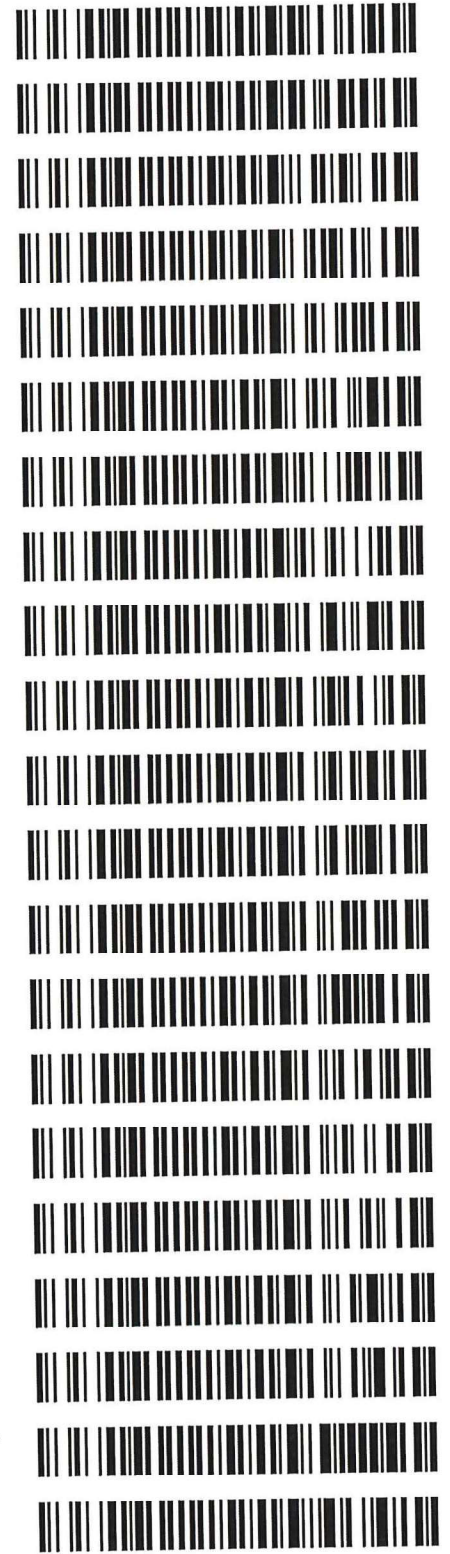
Revision: 5

Issue Date: 07/05/2022

Issuing Authority: Quality Manager

**Worklist: 6463**

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>
M2023-3185	1	BCK	Alcohol Analysis
M2023-3186	1	BCK	Alcohol Analysis
M2023-3204	1	BCK	Alcohol Analysis
M2023-3212	1	BCK	Alcohol Analysis
M2023-3216	1	BCK	Alcohol Analysis
M2023-3218	1	BCK	Alcohol Analysis
M2023-3233	1	BCK	Alcohol Analysis
M2023-3234	1	BCK	Alcohol Analysis
M2023-3267	1	BCK	Alcohol Analysis
M2023-3296	1	BCK	Alcohol Analysis
M2023-3297	1	BCK	Alcohol Analysis
M2023-3298	1	BCK	Alcohol Analysis
M2023-3349	1	BCK	Alcohol Analysis
M2023-3350	1	BCK	Alcohol Analysis
M2023-3352	1	BCK	Alcohol Analysis
M2023-3353	1	BCK	Alcohol Analysis
M2023-3354	1	BCK	Alcohol Analysis
M2023-3355	1	BCK	Alcohol Analysis
M2023-3356	1	BCK	Alcohol Analysis
M2023-3359	2	BCK	Alcohol Analysis
M2023-3392	2	BCK	Alcohol Analysis



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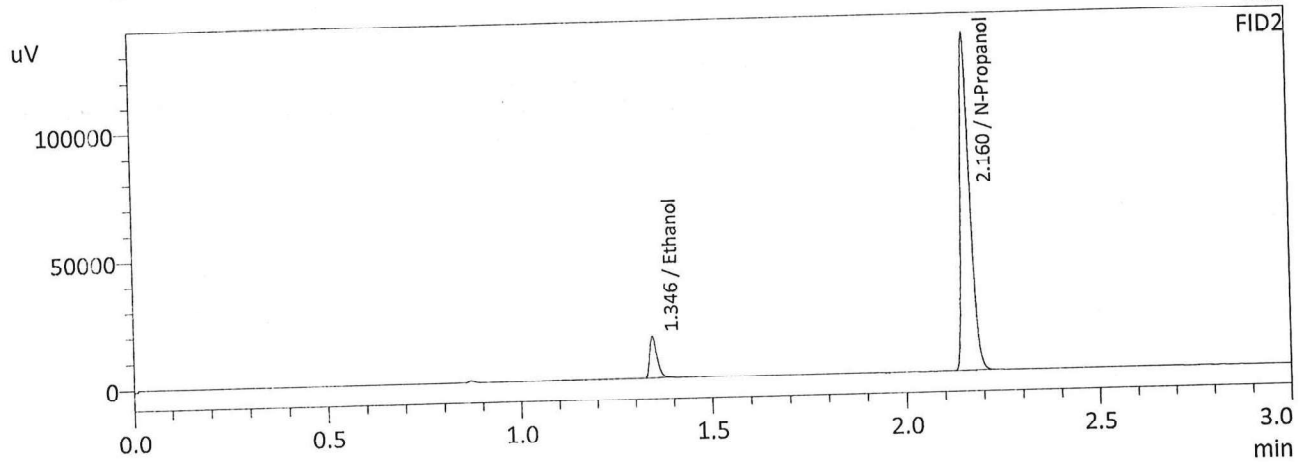
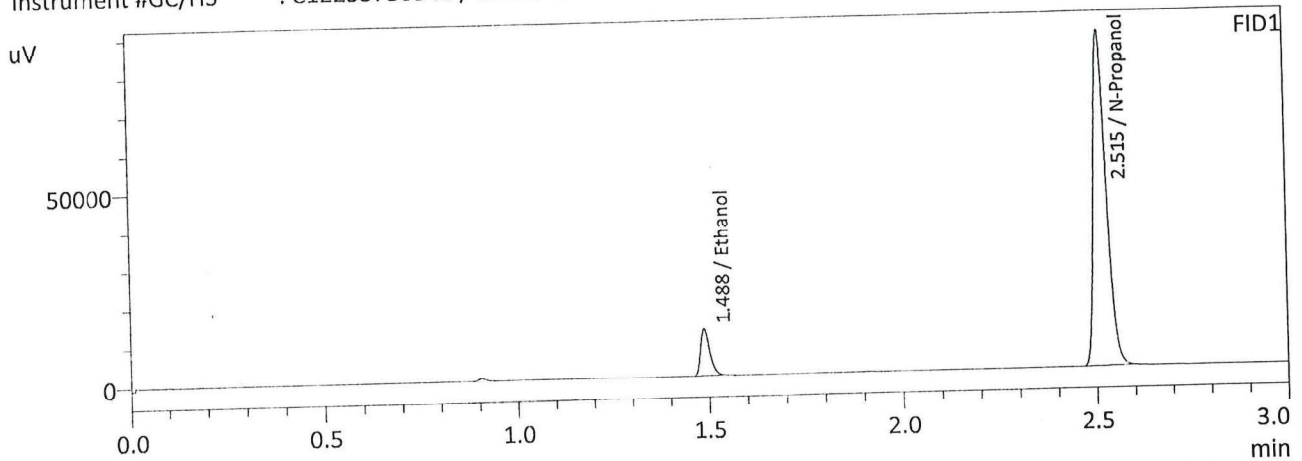
**Worklist: 6463**

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>
M2023-3400	1	BCK	Alcohol Analysis





Sample Name : 0.050  
 Laboratory : Meridian  
 Injection Date : 8/7/2023 2:16:11 PM  
 Vial # : 1  
 Method Filename : Default Project - ALCOHOL\_230807.GCM.gcm  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

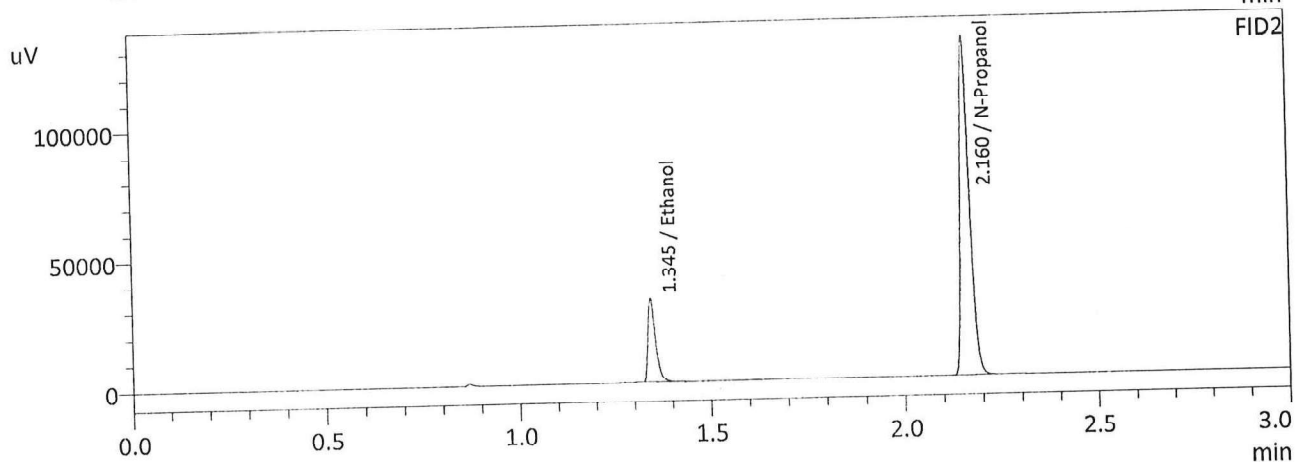
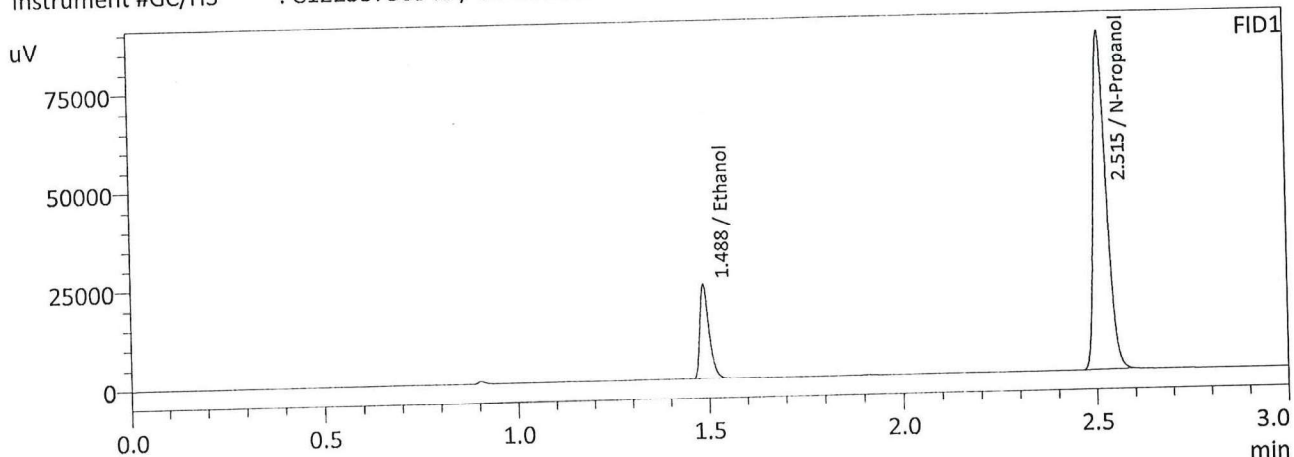
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0498	20104	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	203400	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0496	21612	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	219060	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

Ju

Sample Name : 0.100  
 Laboratory : Meridian  
 Injection Date : 8/7/2023 2:23:31 PM  
 Vial # : 2  
 Method Filename : Default Project - ALCOHOL\_230807.GCM.gcm  
 Instrument #GC/HS : C12255750548 / C12595800409



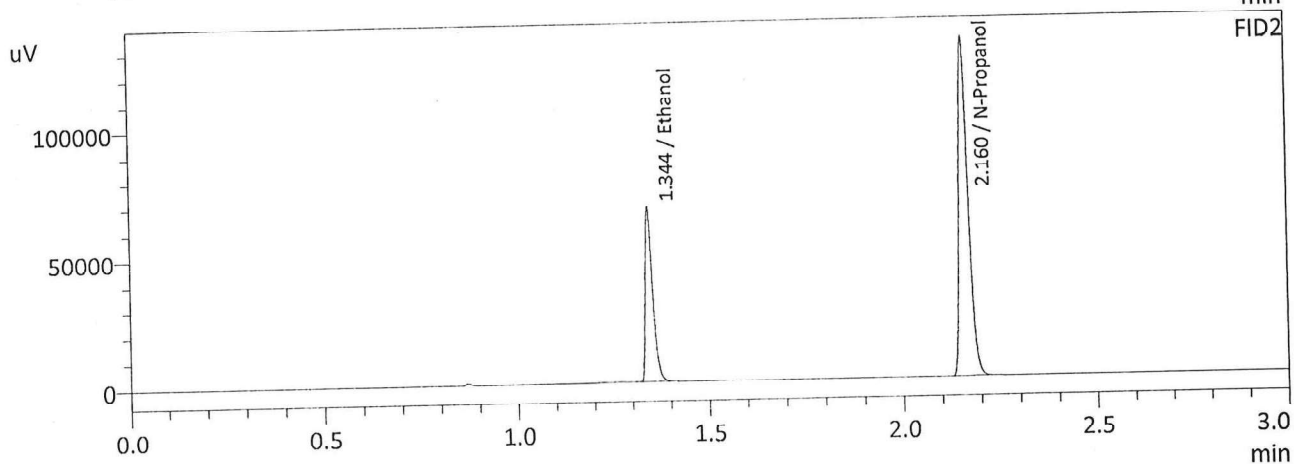
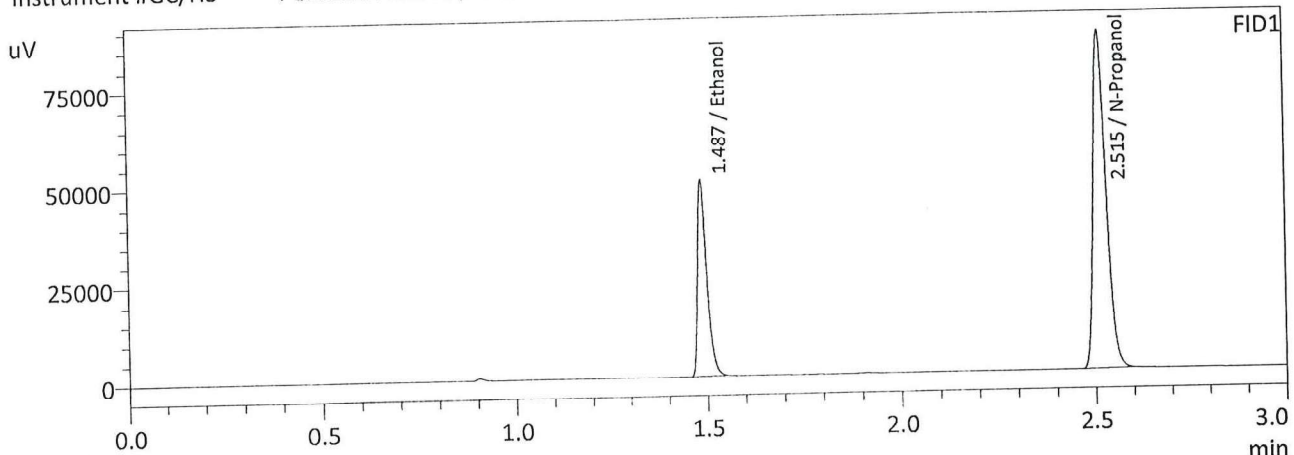
FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0978	39506	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	200547	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0983	42812	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	215835	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

Sample Name : 0.200  
 Laboratory : Meridian  
 Injection Date : 8/7/2023 2:30:54 PM  
 Vial # : 3  
 Method Filename : Default Project - ALCOHOL\_230807.GCM.gcm  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

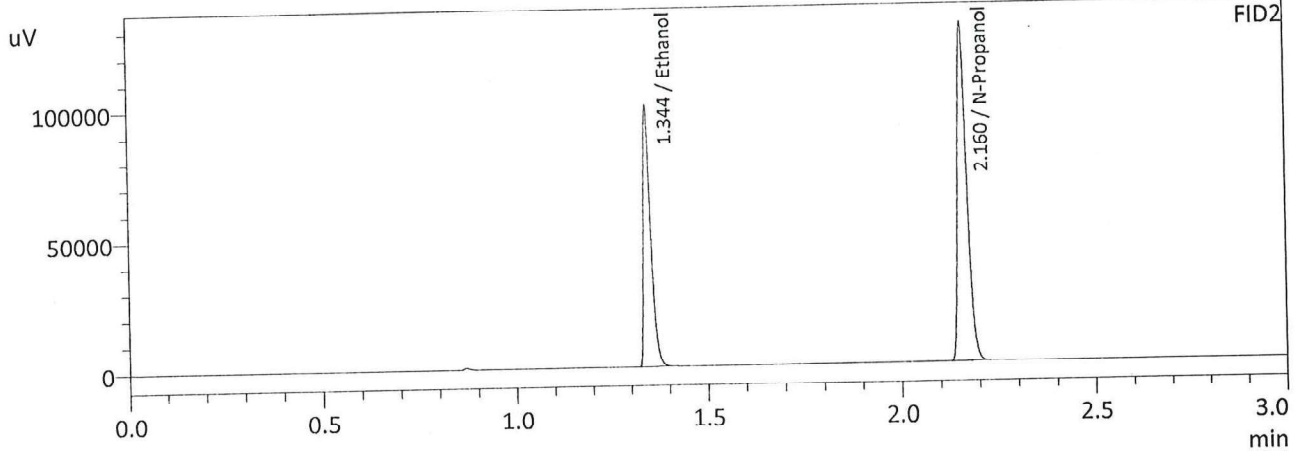
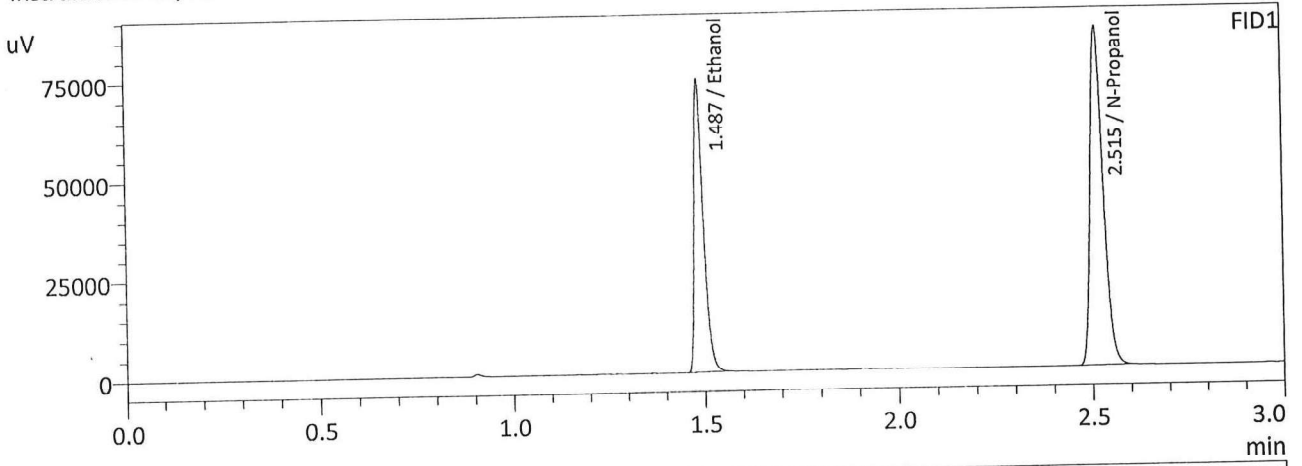
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2026	83100	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	202017	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2021	89637	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	218011	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

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Sample Name : 0.300  
 Laboratory : Meridian  
 Injection Date : 8/7/2023 2:39:37 PM  
 Vial # : 4  
 Method Filename : Default Project - ALCOHOL\_230807.GCM.gcm  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

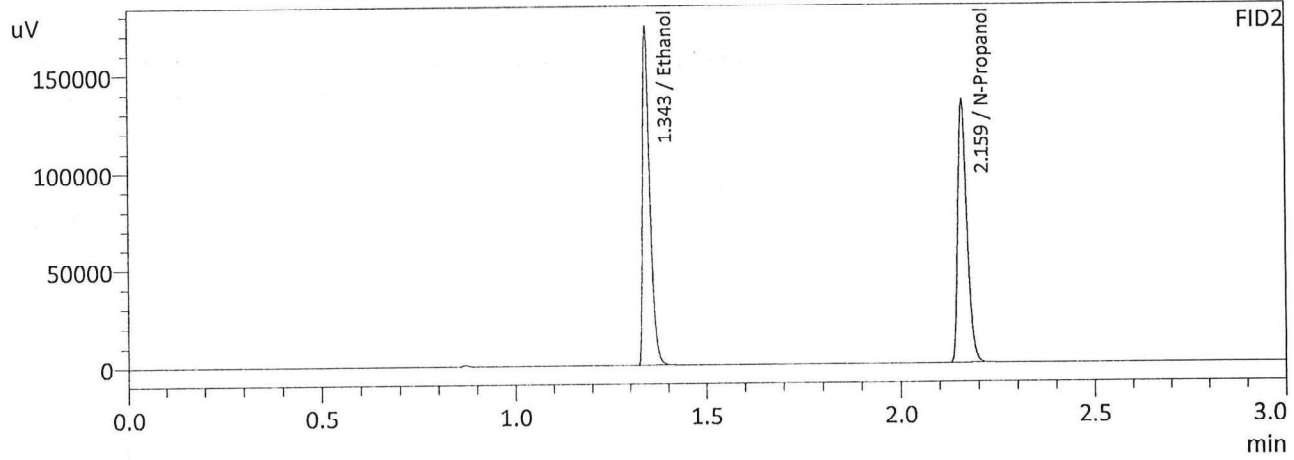
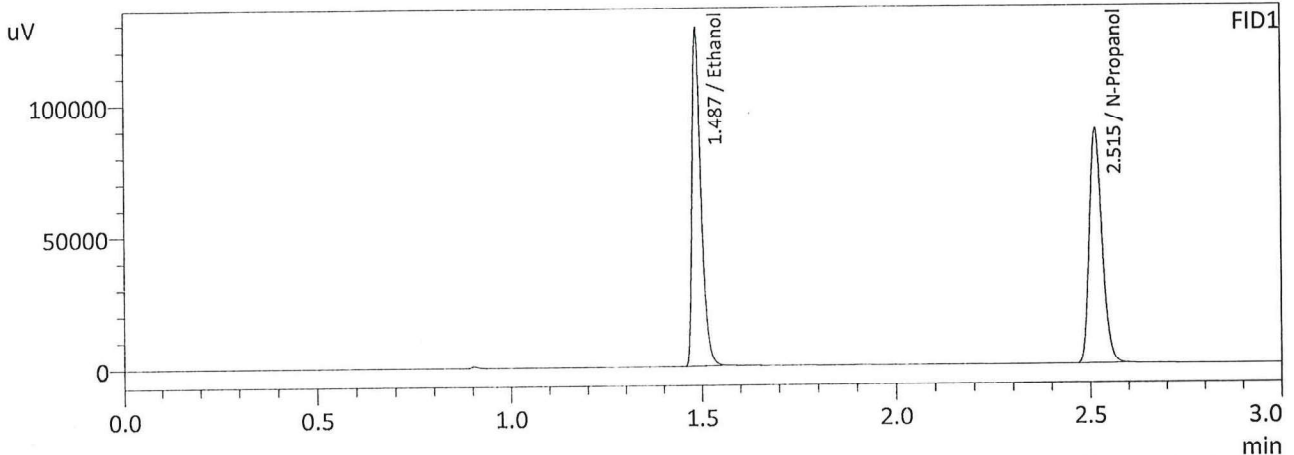
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.3007	121728	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	198943	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.3009	131641	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	214549	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

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Sample Name : 0.500  
 Laboratory : Meridian  
 Injection Date : 8/7/2023 2:48:24 PM  
 Vial # : 5  
 Method Filename : Default Project - ALCOHOL\_230807.GCM.gcm  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

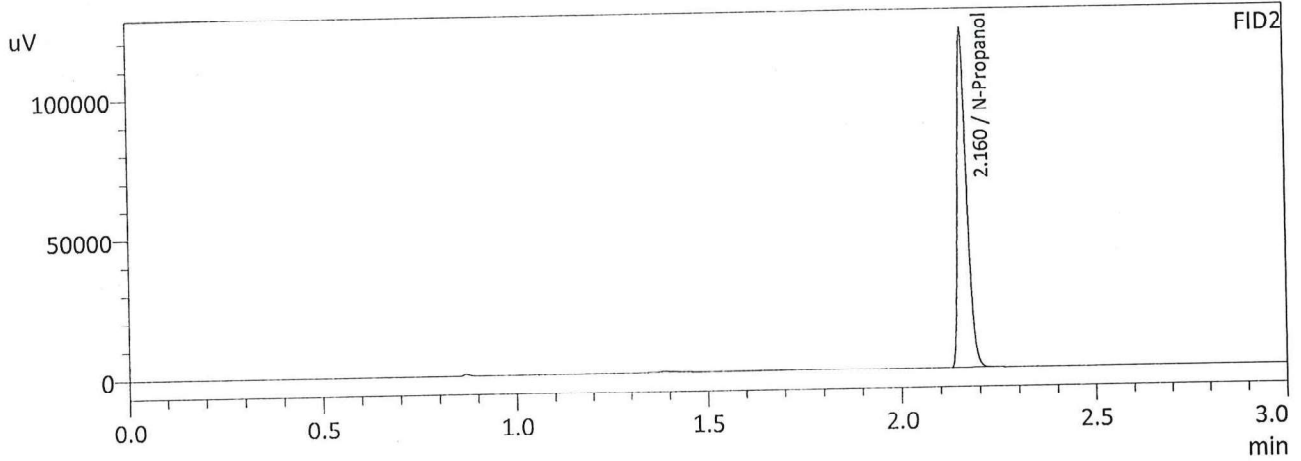
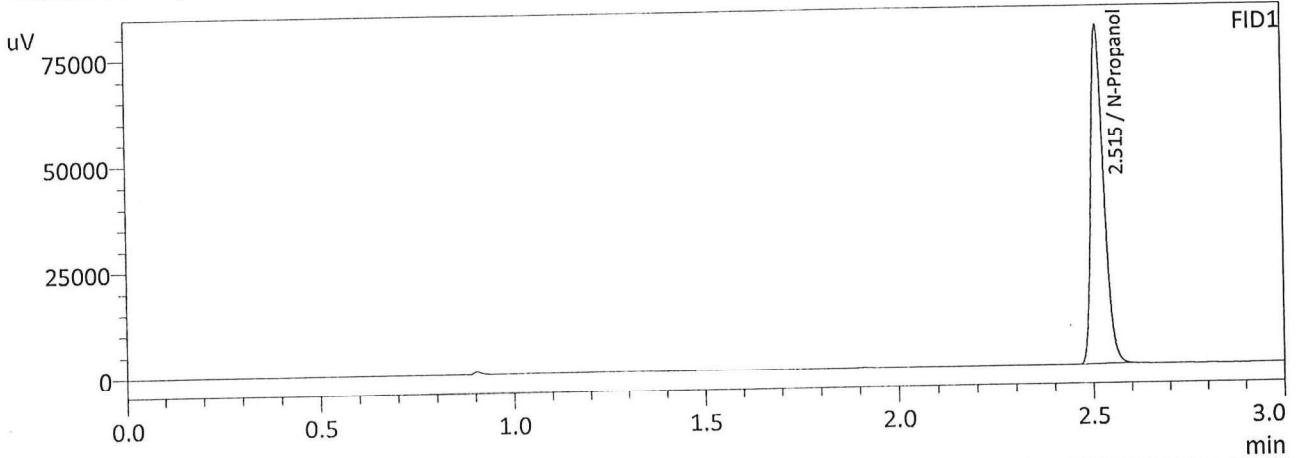
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.4989	210333	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	206837	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.4989	226980	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	222686	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc



Sample Name : INT STD BLK  
 Laboratory : Meridian  
 Injection Date : 8/7/2023 2:55:40 PM  
 Vial # : 6  
 Method Filename : Default Project - ALCOHOL\_230807.GCM.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	185985	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

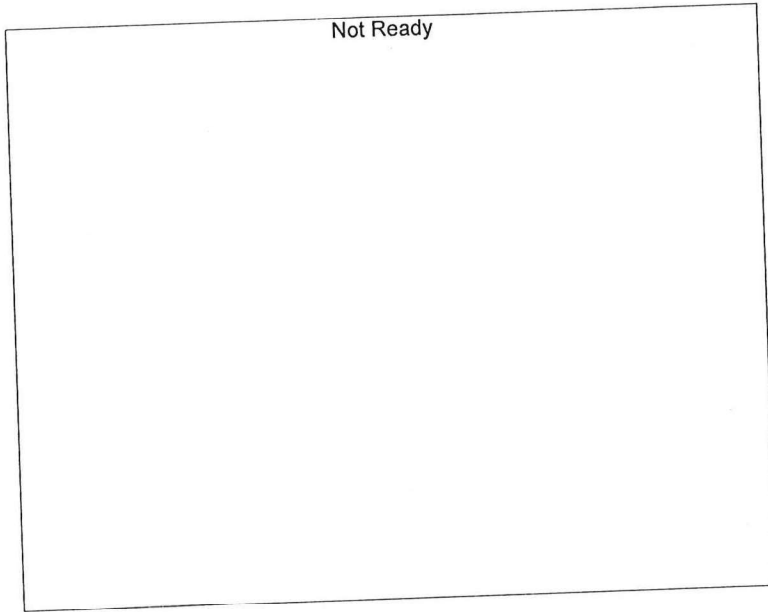
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	200829	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

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# Calibration Table

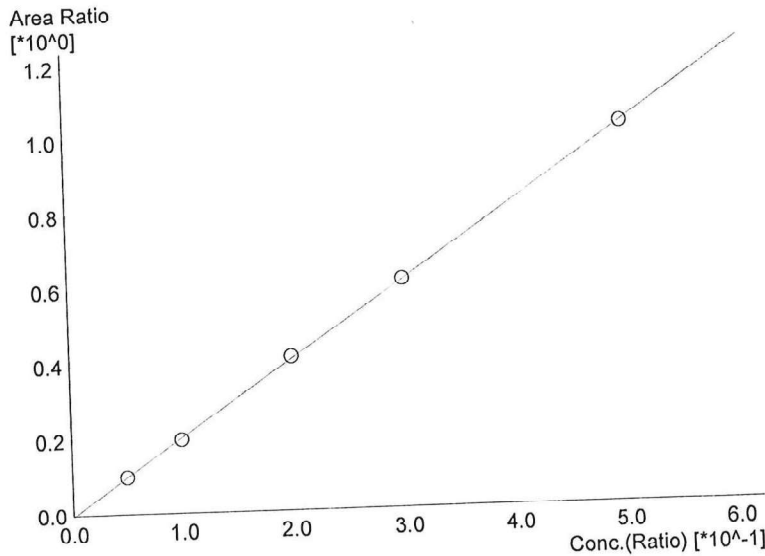
Laboratory : MERIDIAN  
 Instrument Name : GC-BAC  
 Instrument Serial # : C12595800409 / C12255750548

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 Method File :Default Project - CALCURVE\_230807.gcb  
 Batch File :  
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 Date Created :8/7/2023 2:42:42 PM  
 Date Modified :8/7/2023 2:51:26 PM



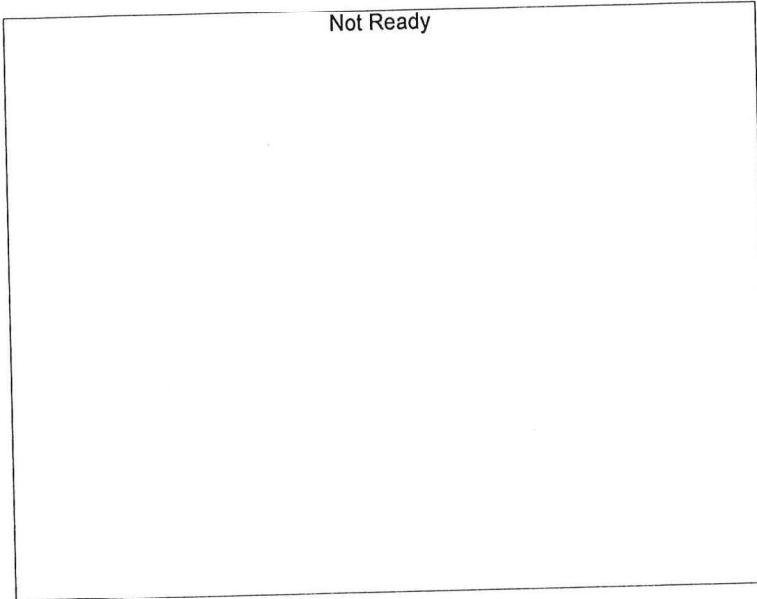
Name : Methanol  
 Detector Name: FID1  
 Function :  $f(x)=0*x+0$   
 R<sup>2</sup> value= 0  
 FitType: Linear  
 ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
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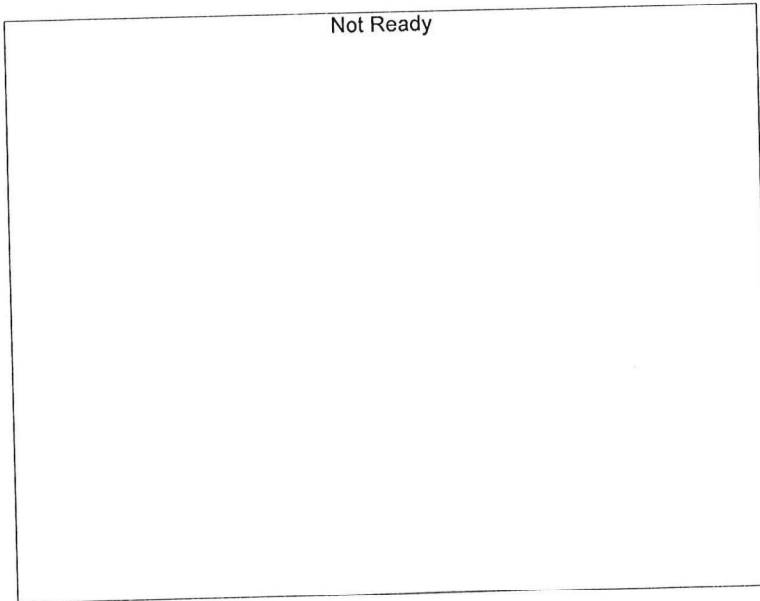
Name : Ethanol  
 Detector Name: FID1  
 Function :  $f(x)=2.04417*x-0.00296746$   
 R<sup>2</sup> value= 0.9998924  
 FitType: Linear  
 ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
1	0.050	20104	0.0498
2	0.100	39506	0.0978
3	0.200	83100	0.2026
4	0.300	121728	0.3007
5	0.500	210333	0.4989



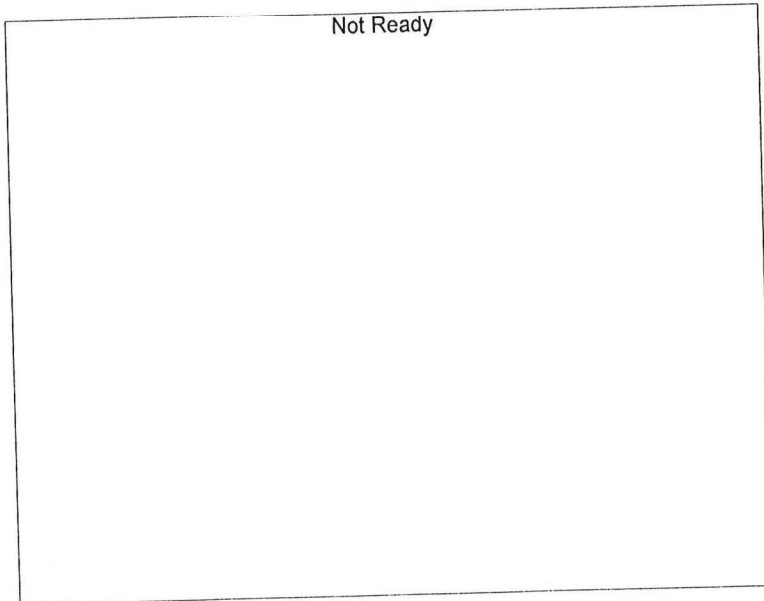
Name : Isopropyl Alcohol  
Detector Name: FID1  
Function :  $f(x)=0*x+0$   
R^2 value= 0  
FitType: Linear  
ZeroThrough: Not Through

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

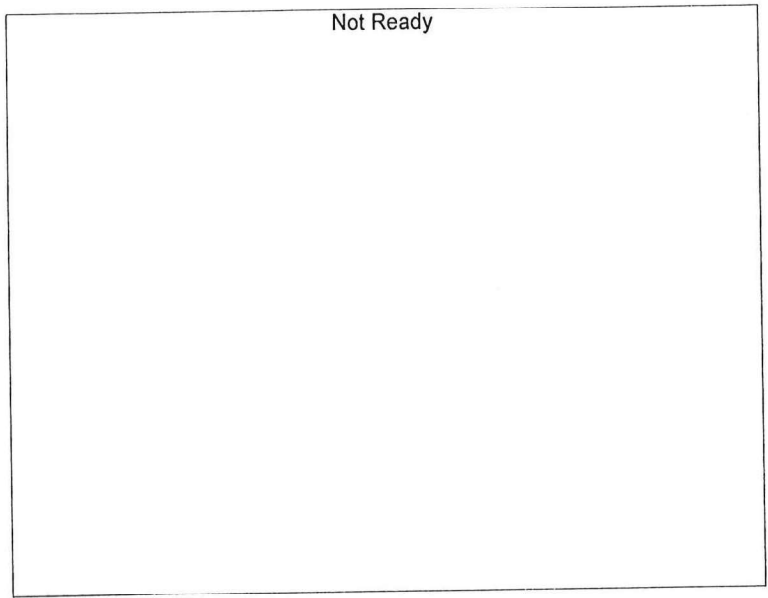
#	Conc.	Area	Std. Conc.
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Name : Fluor. Hydrocarbon(s)  
Detector Name: FID1  
Function :  $f(x)=0*x+0$   
R^2 value= 0  
FitType: Linear  
ZeroThrough: Not Through

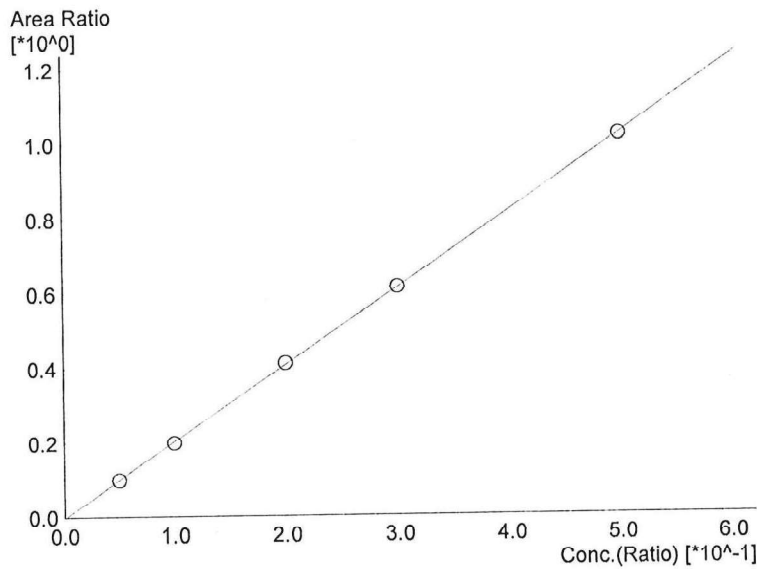
#	Conc.	Area	Std. Conc.
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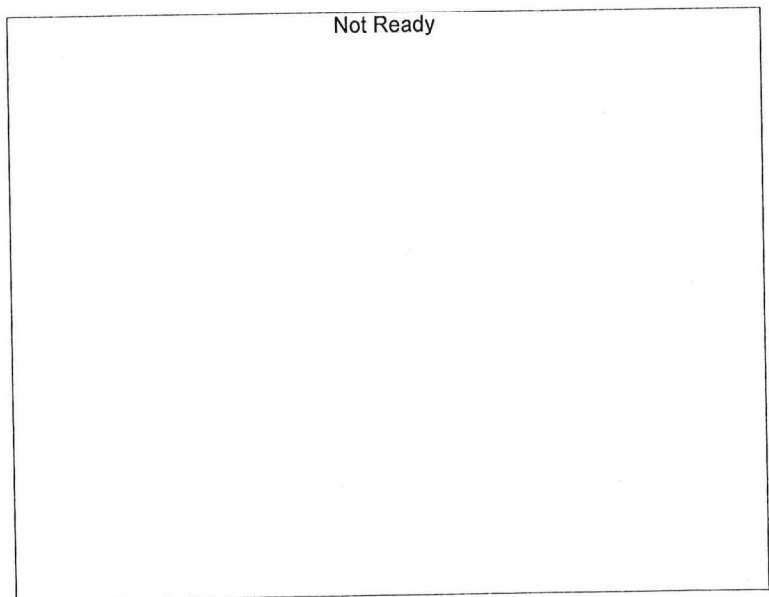
Name : Methanol  
 Detector Name: FID2  
 Function :  $f(x)=0*x+0$   
 R<sup>2</sup> value= 0  
 FitType: Linear  
 ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
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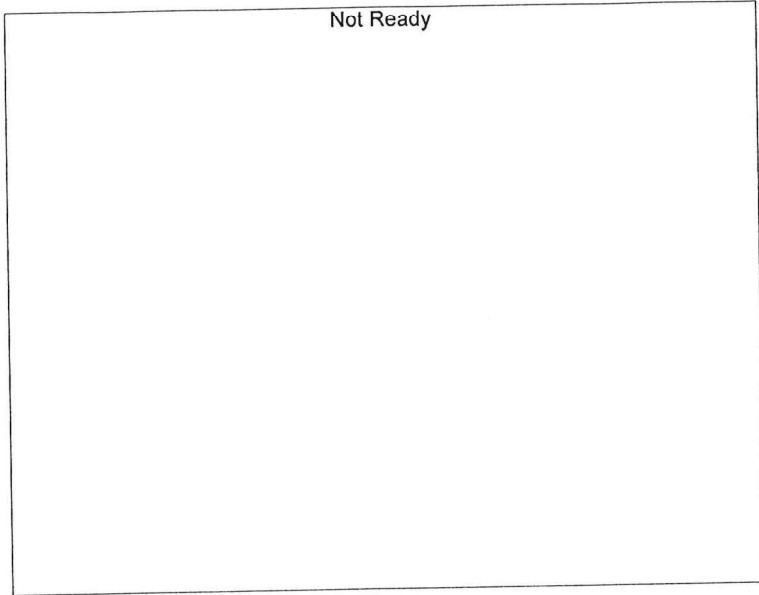
Name : Ethanol  
 Detector Name: FID2  
 Function :  $f(x)=2.04904*x-0.00307458$   
 R<sup>2</sup> value= 0.9999245  
 FitType: Linear  
 ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
1	0.050	21612	0.0496
2	0.100	42812	0.0983
3	0.200	89637	0.2021
4	0.300	131641	0.3009
5	0.500	226980	0.4989



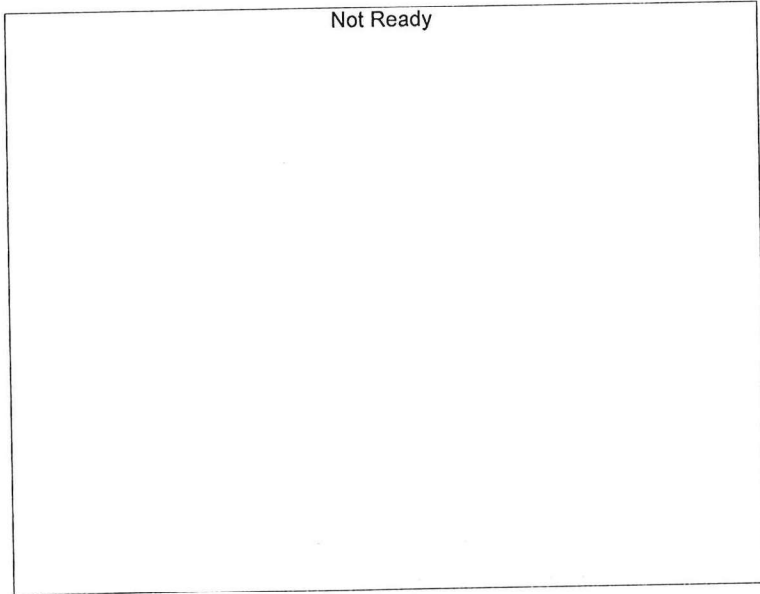
Name : Acetone  
 Detector Name: FID2  
 Function :  $f(x)=0*x+0$   
 R<sup>2</sup> value= 0  
 FitType: Linear  
 ZeroThrough: Not Through

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

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

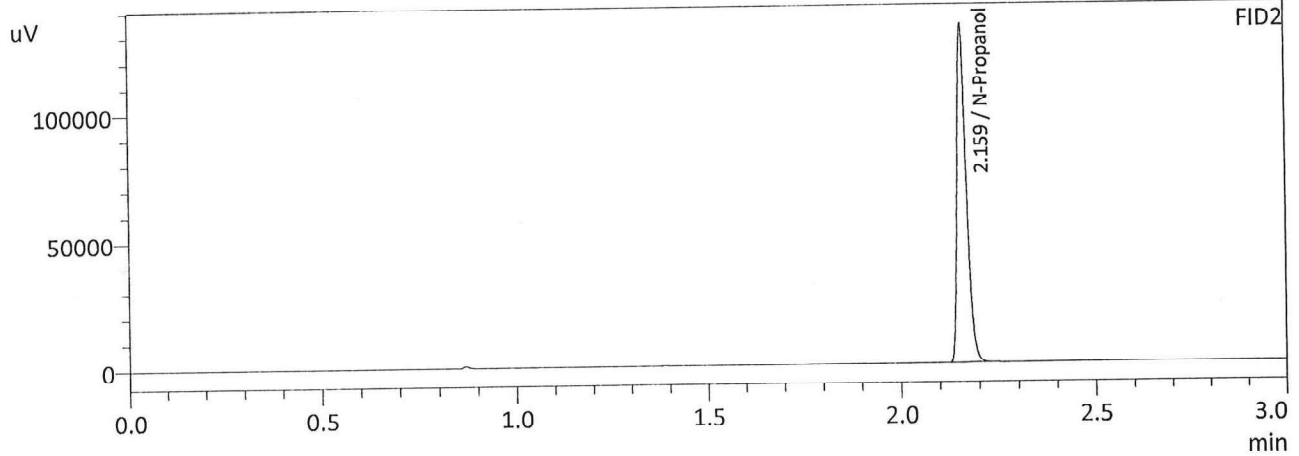
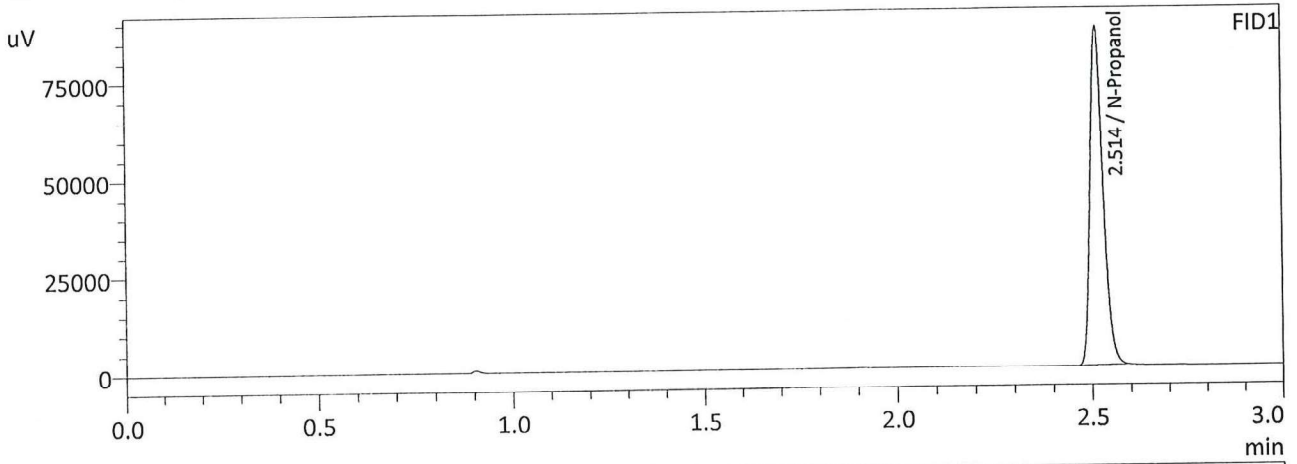
#	Conc.	Area	Std. Conc.
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# Meridian Blood Alcohol Analysis Batch Table

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	1:Standard:(I)	1	ALCOHOL 230807.GCM.gcm
2	0.100	1:Standard	2	ALCOHOL 230807.GCM.gcm
3	0.200	1:Standard	3	ALCOHOL 230807.GCM.gcm
4	0.300	1:Standard	4	ALCOHOL 230807.GCM.gcm
5	0.500	1:Standard	5	ALCOHOL 230807.GCM.gcm
6	INT STD BLK	0:Unknown	0	ALCOHOL 230807.GCM.gcm

Sample Name : INT STD BLK 1  
 Laboratory : Meridian  
 Injection Date : 8/8/2023 10:45:23 AM  
 Vial # : 1  
 Method Filename : Default Project - ALCOHOL\_230807.GCM.gcm  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

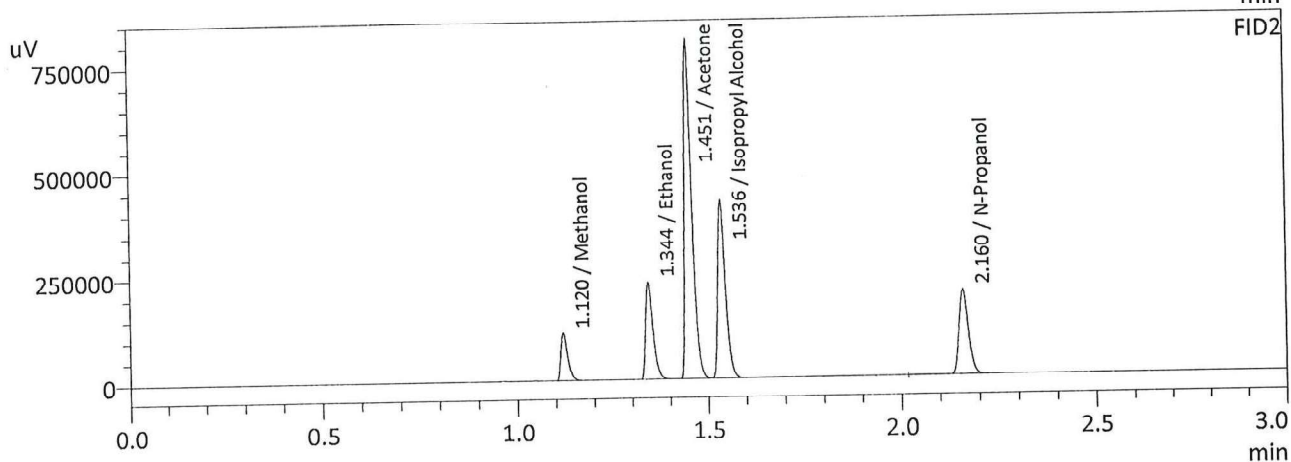
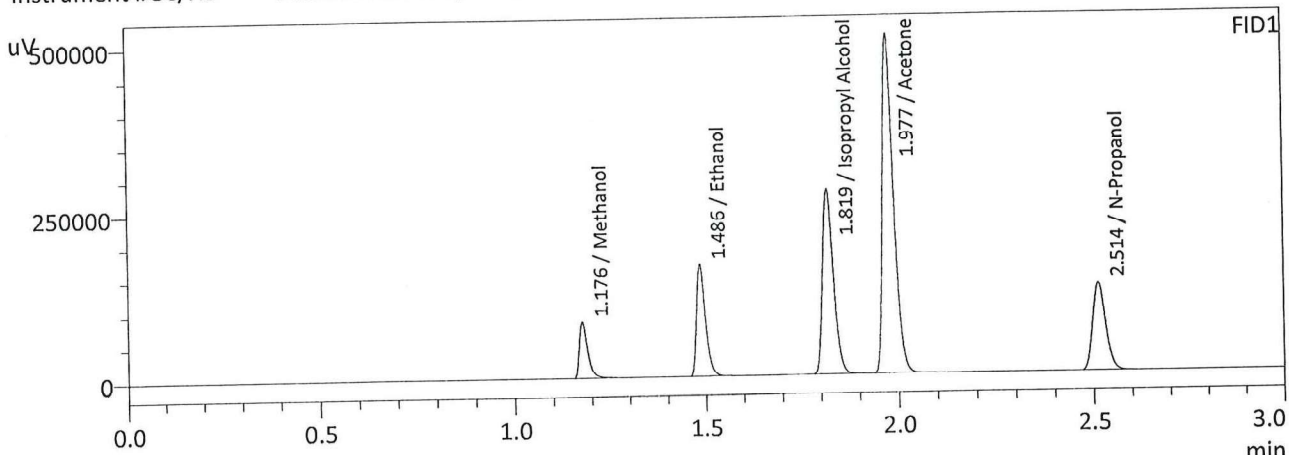
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	202488	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	219191	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

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Sample Name : MIXED VOLATILES FN 06041902  
 Laboratory : Meridian  
 Injection Date : 8/8/2023 10:52:43 AM  
 Vial # : 2  
 Method Filename : Default Project - ALCOHOL\_230807.GCM.gcm  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	0.0000	127842	g/100cc
Ethanol	0.4461	275690	g/100cc
Isopropyl Alcohol	0.0000	537885	g/100cc
Acetone	0.0000	995029	g/100cc
N-Propanol	0.0000	303249	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	0.0000	138319	g/100cc
Ethanol	0.4471	300863	g/100cc
Acetone	0.0000	1077577	g/100cc
Isopropyl Alcohol	0.0000	580369	g/100cc
N-Propanol	0.0000	329506	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: QC-1-1		Analysis Date(s): 8/8/2023 11:00:07 AM(-06:00)				
	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0789	0.0783	0.0006	0.0786	0.0013	0.0792
(g/100cc)	0.0801	0.0797	0.0004	0.0799		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information Instrument information is stored centrally.

Refer To Instrument Method: ALCOHOL\_230807.GCM.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

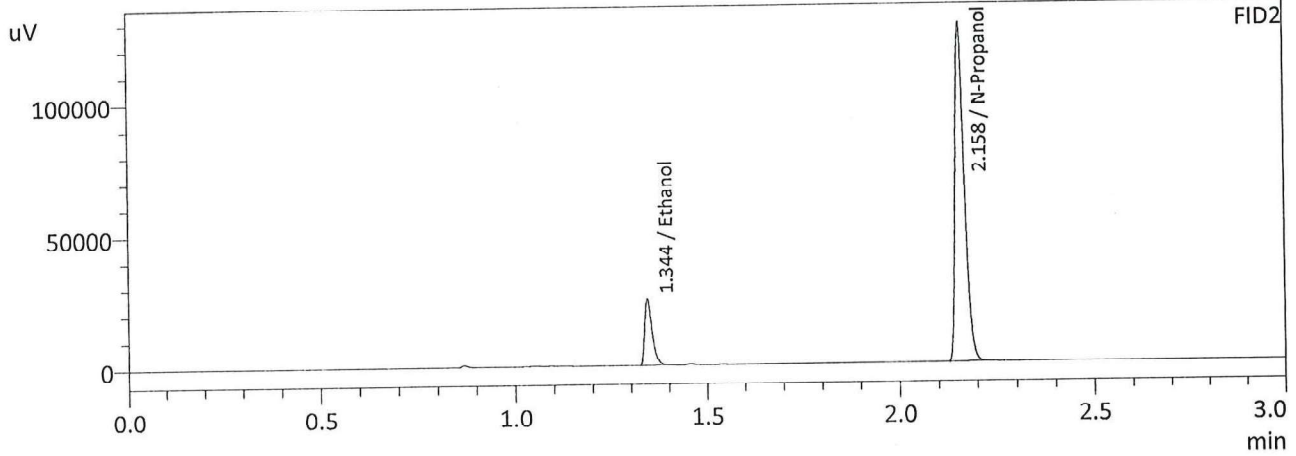
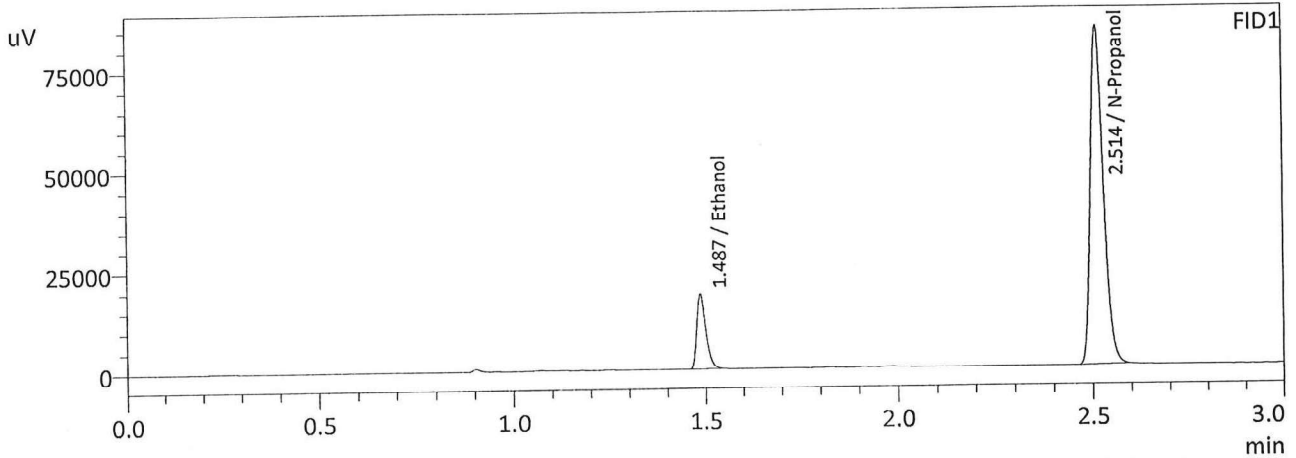
Reported Results	
0.079	

Calibration and control data are stored centrally.

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Sample Name : QC-1-1  
 Laboratory : Meridian  
 Injection Date : 8/8/2023 11:00:07 AM  
 Vial # : 3  
 Method Filename : Default Project - ALCOHOL\_230807.GCM.gcm  
 Instrument #GC/HS : C12255750548 / C12595800409



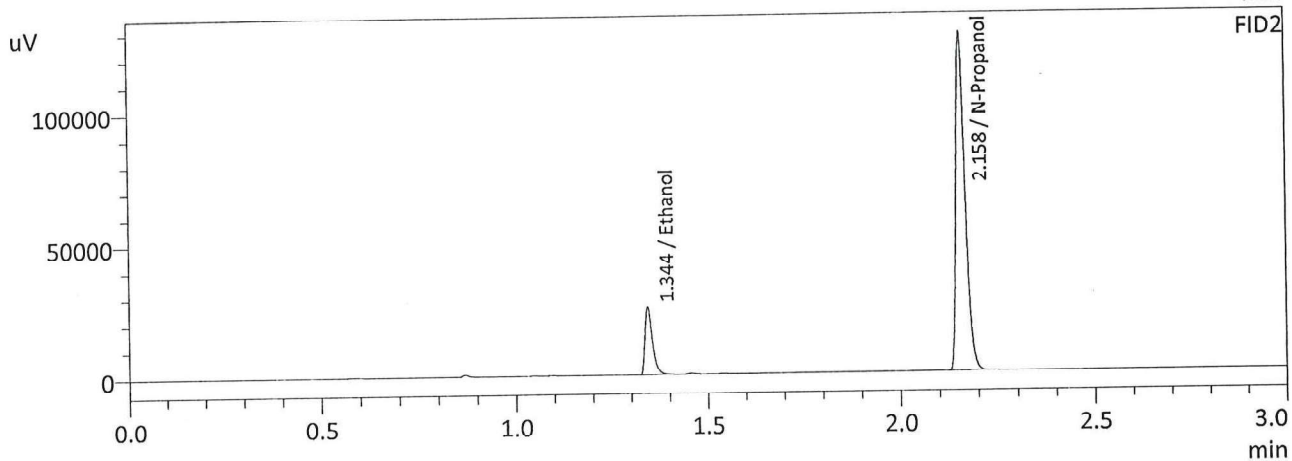
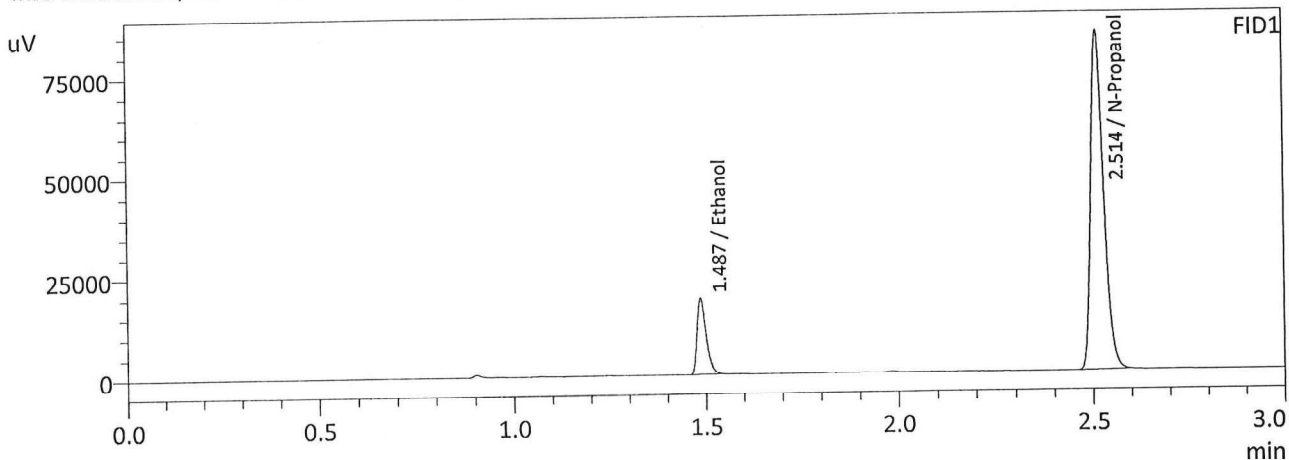
FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0789	30989	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	195721	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0783	33359	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	211933	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

Sample Name : QC-1-1-B  
 Laboratory : Meridian  
 Injection Date : 8/8/2023 11:08:52 AM  
 Vial # : 4  
 Method Filename : Default Project - ALCOHOL\_230807.GCM.gcm  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0801	31526	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	195956	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0797	33952	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	211857	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc



VOLATILES DETERMINATION CASEFILE WORKSHEET

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: 0.08 QA			Analysis Date(s): 8/8/2023 11:17:19 AM(-06:00)			
	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0791	0.0787	0.0004	0.0789	0.0017	0.0797
(g/100cc)	0.0808	0.0804	0.0004	0.0806		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

Refer To Instrument Method: ALCOHOL\_230807.GCM.gcm

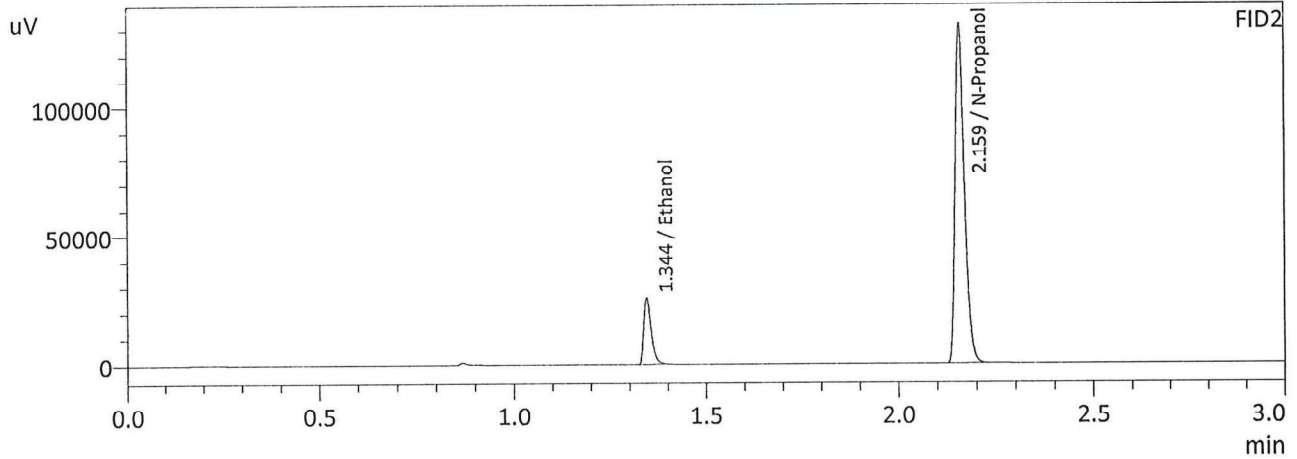
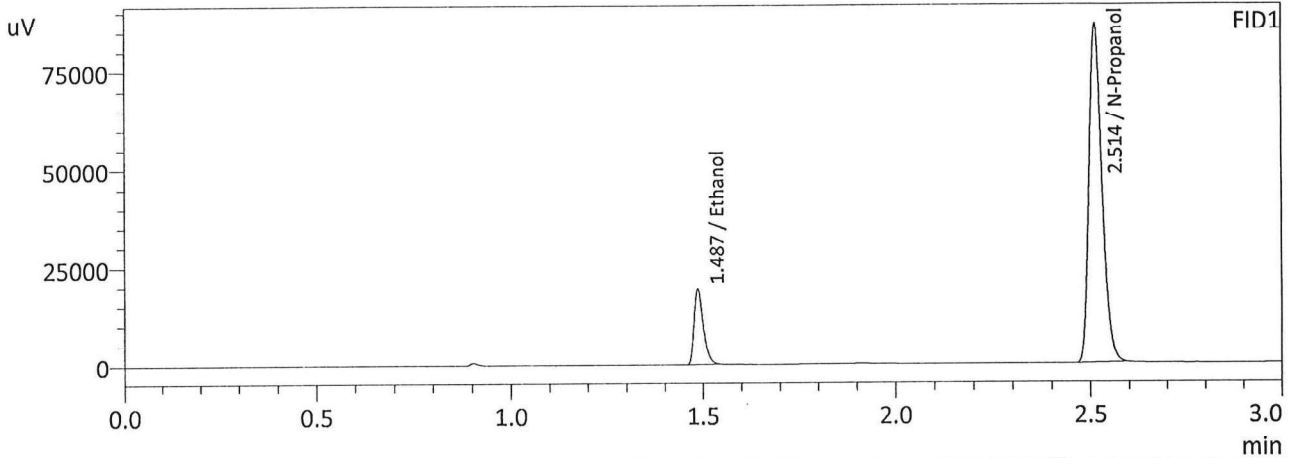
Reporting of Results	Uncertainty of Measurements (UM%):		5.00%
Overall Mean (g/100cc)	Low	High	5 % of Mean
0.079	0.075	0.083	0.004

Reported Results	
0.079	

Calibration and control data are stored centrally.

JK

Sample Name : 0.08 QA  
 Laboratory : Meridian  
 Injection Date : 8/8/2023 11:17:19 AM  
 Vial # : 5  
 Method Filename : Default Project - ALCOHOL\_230807.GCM.gcm  
 Instrument #GC/HS : C12255750548 / C12595800409



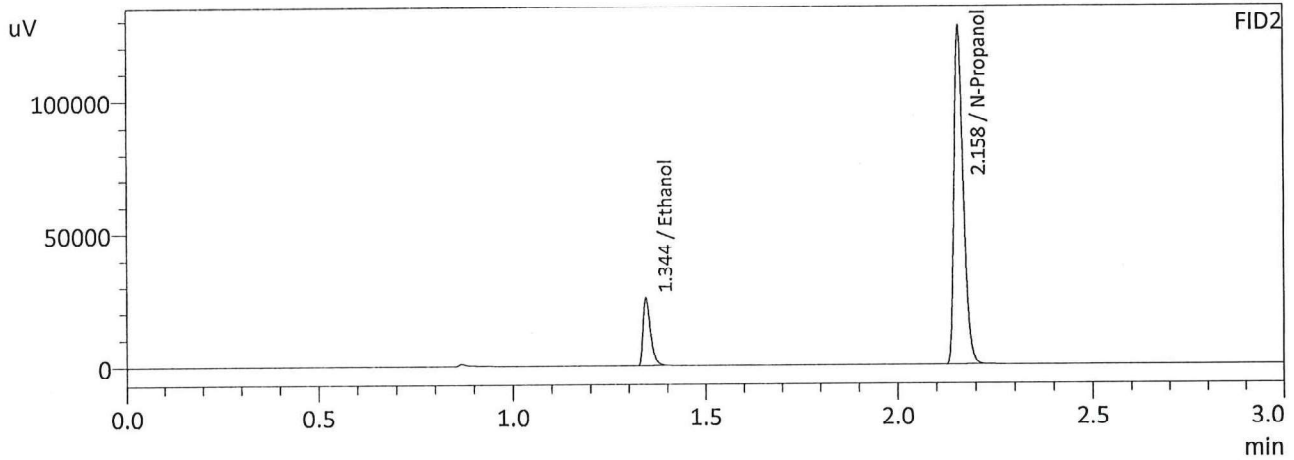
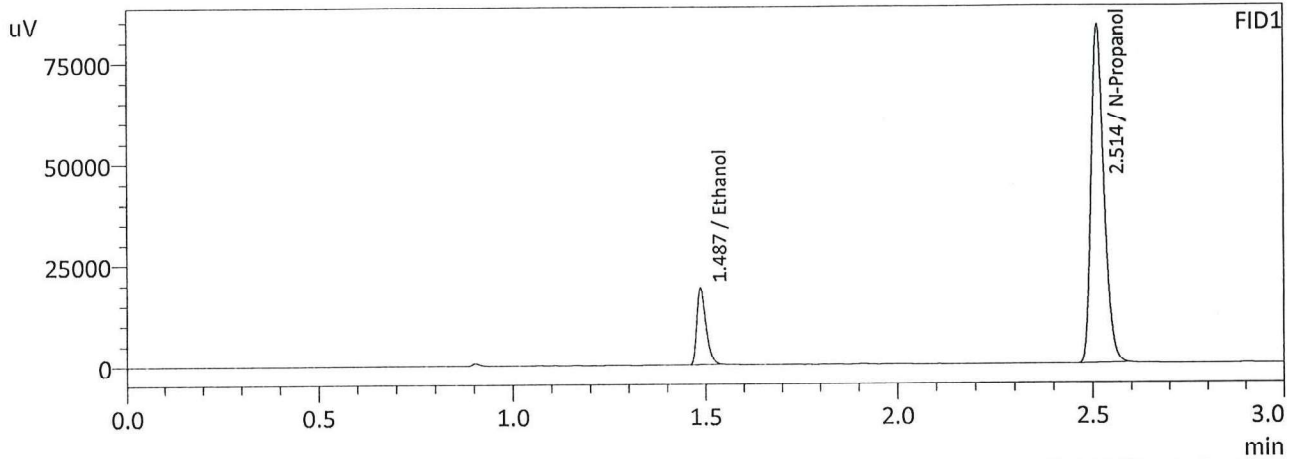
FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0791	31966	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	201375	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0787	34493	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	218013	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

Sample Name : 0.08 QA  
 Laboratory : Meridian  
 Injection Date : 8/8/2023 11:25:03 AM  
 Vial # : 6  
 Method Filename : Default Project - ALCOHOL\_230807.GCM.gcm  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0808	31546	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	194398	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0804	34046	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	210483	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: QC-2-1			Analysis Date(s): 8/8/2023 2:00:13 PM(-06:00)			
	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.2111	0.2109	0.0002	0.2110	0.0041	0.2130
(g/100cc)	0.2153	0.2150	0.0003	0.2151		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

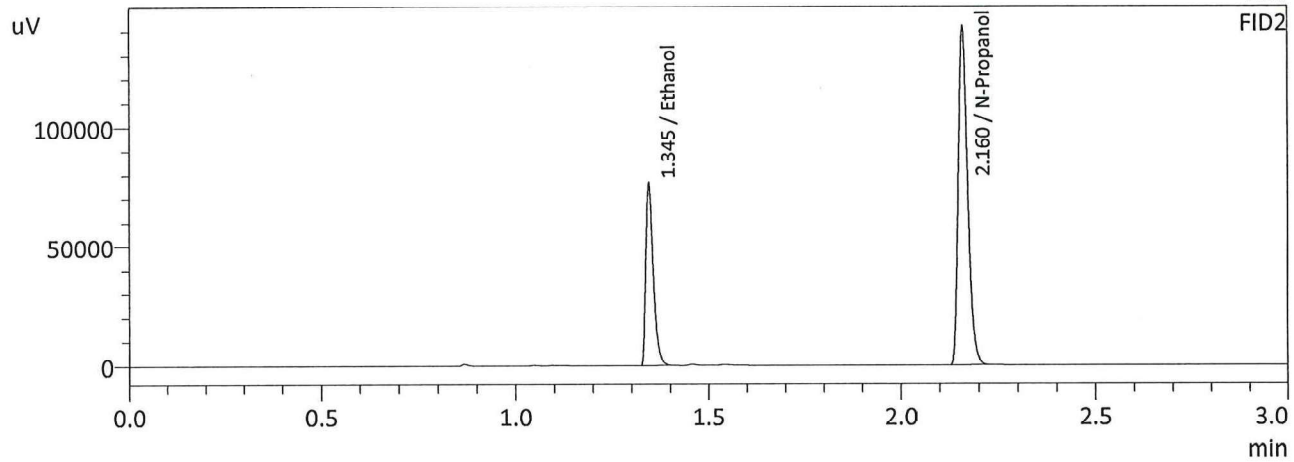
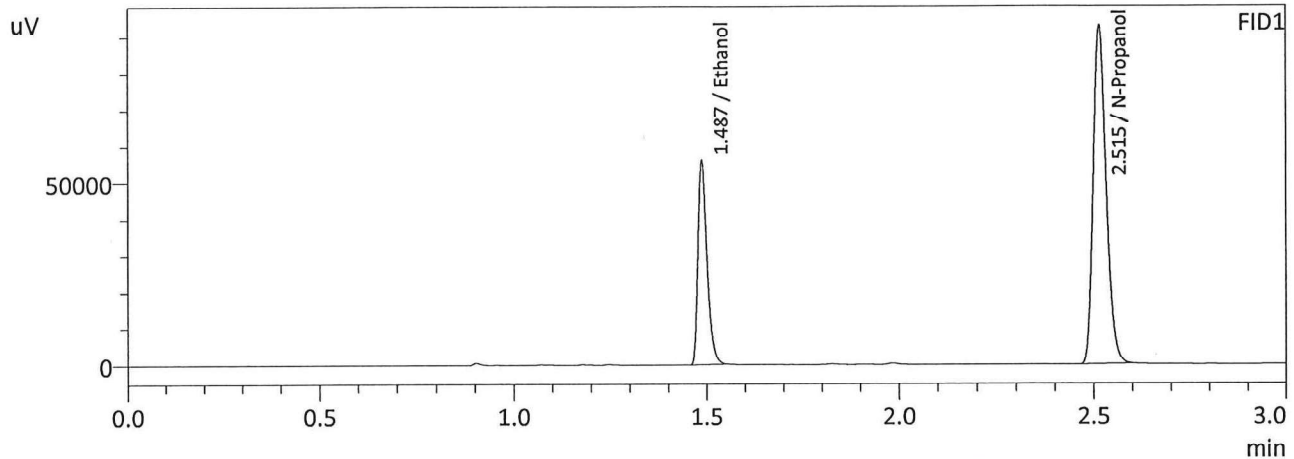
Instrument information is stored centrally.

Refer To Instrument Method: ALCOHOL\_230807.GCM.gcm

Reporting of Results	Uncertainty of Measurements (UM%): 5.00%		
Overall Mean (g/100cc)	Low	High	5 % of Mean
0.213	0.202	0.224	0.011
	Reported Results		
	0.213		

Calibration and control data are stored centrally.

Sample Name : QC-2-1  
 Laboratory : Meridian  
 Injection Date : 8/8/2023 2:00:13 PM  
 Vial # : 25  
 Method Filename : Default Project - ALCOHOL\_230807.GCM.gcm  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2111	92828	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	216511	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

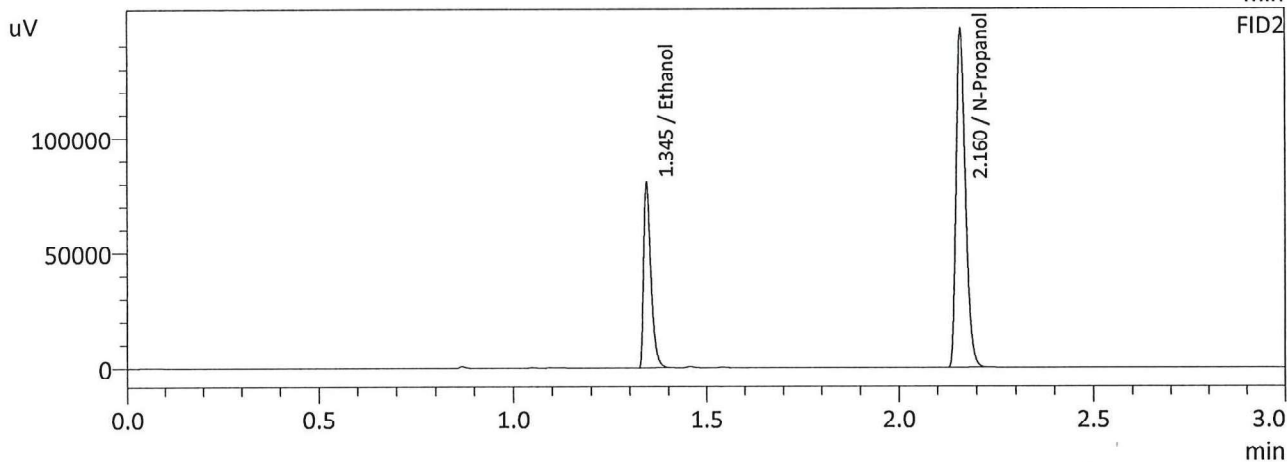
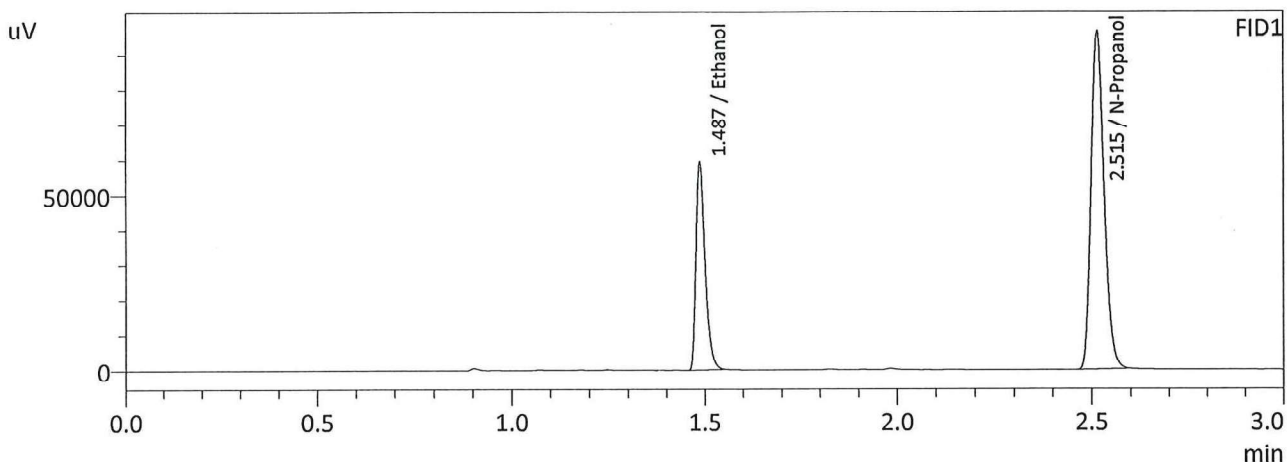
FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2109	100700	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	234633	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

06



Sample Name : QC-2-1-B  
 Laboratory : Meridian  
 Injection Date : 8/8/2023 2:08:49 PM  
 Vial # : 26  
 Method Filename : Default Project - ALCOHOL\_230807.GCM.gcm  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2153	98344	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	224880	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2150	106631	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	243653	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: QC1-2		Analysis Date(s): 8/8/2023 5:02:25 PM(-06:00)				
	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0803	0.0800	0.0003	0.0801	0.0011	0.0807
(g/100cc)	0.0815	0.0810	0.0005	0.0812		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

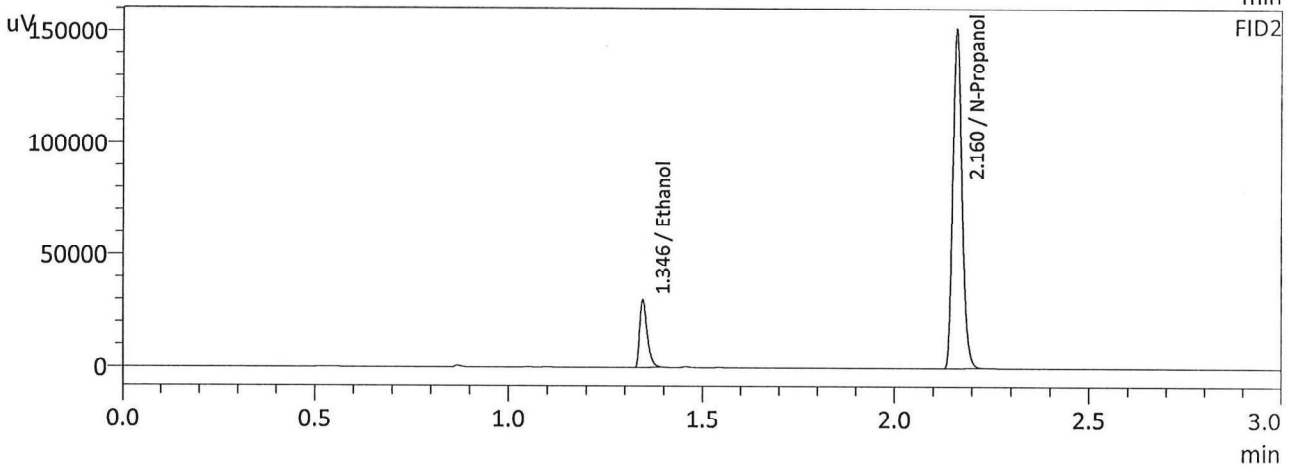
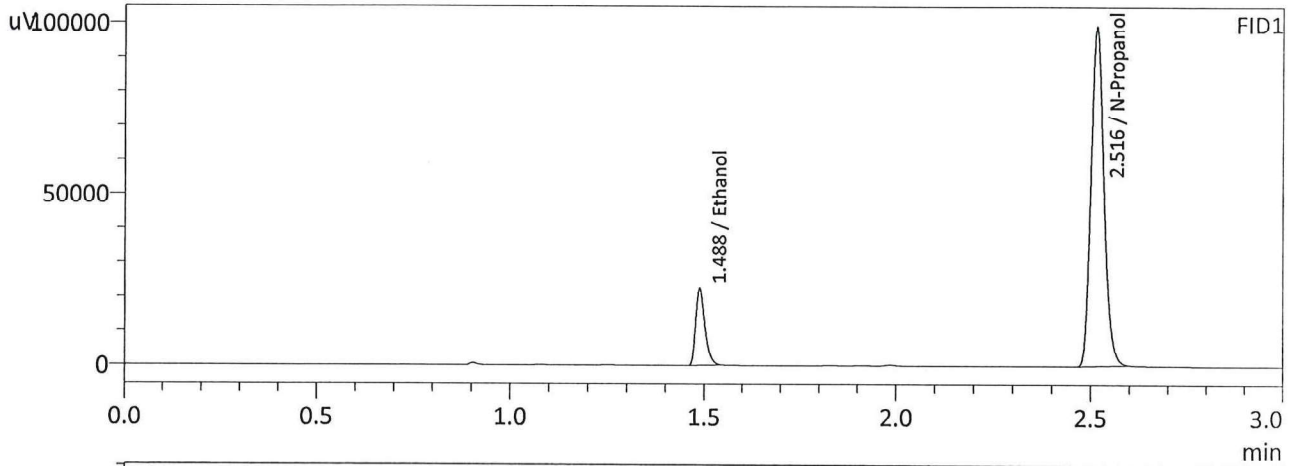
Refer To Instrument Method: ALCOHOL\_230807.GCM.gcm

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.

JK

Sample Name : QC1-2  
 Laboratory : Meridian  
 Injection Date : 8/8/2023 5:02:25 PM  
 Vial # : 47  
 Method Filename : Default Project - ALCOHOL\_230807.GCM.gcm  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

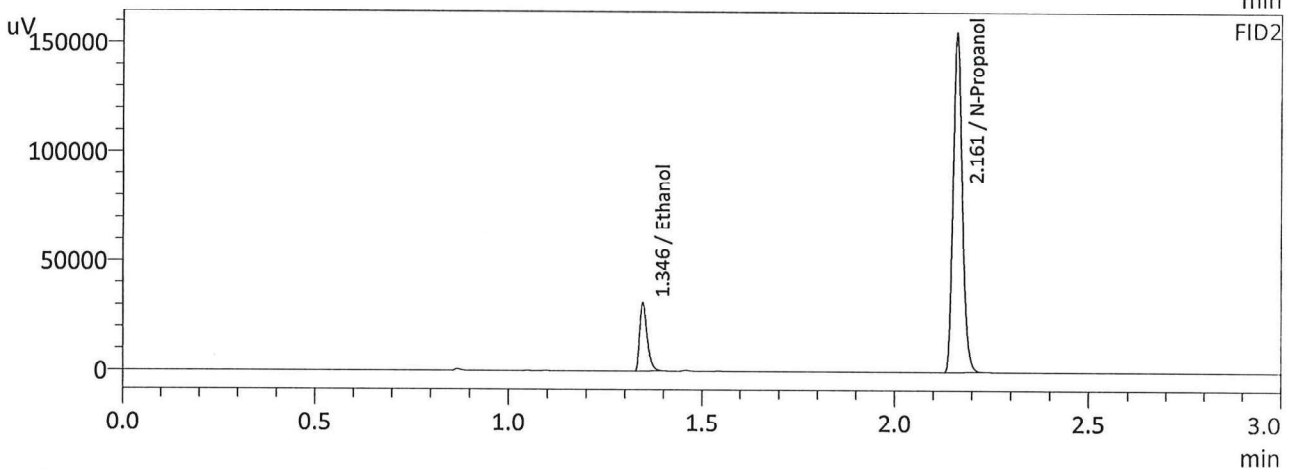
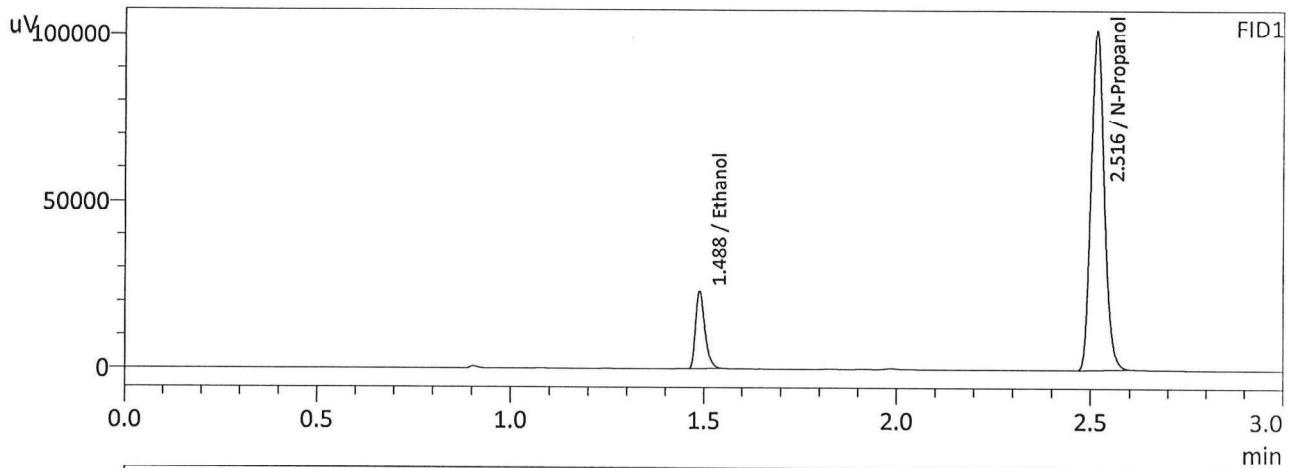
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0803	37339	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	231390	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0800	40368	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	250710	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc



Sample Name : QC1-2-B  
 Laboratory : Meridian  
 Injection Date : 8/8/2023 5:11:51 PM  
 Vial # : 48  
 Method Filename : Default Project - ALCOHOL\_230807.GCM.gcm  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0815	38769	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	236902	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0810	41836	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	256643	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

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VOLATILES DETERMINATION CASEFILE WORKSHEET

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: QC2-2		Analysis Date(s): 8/8/2023 6:08:59 PM(-06:00)				
	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.2098	0.2092	0.0006	0.2095	0.0075	0.2132
(g/100cc)	0.2173	0.2167	0.0006	0.2170		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

Refer To Instrument Method: ALCOHOL\_230807.GCM.gcm

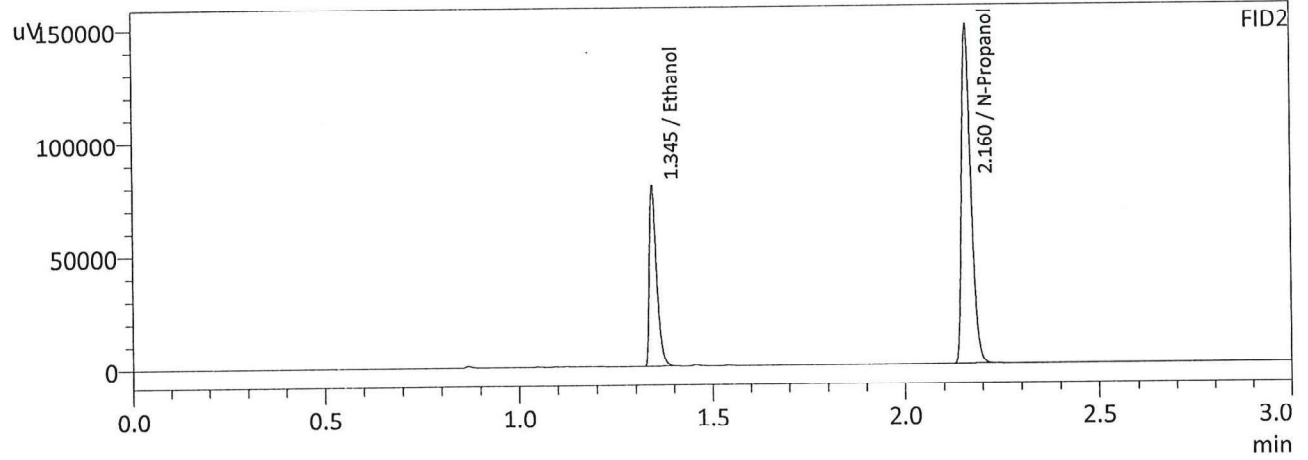
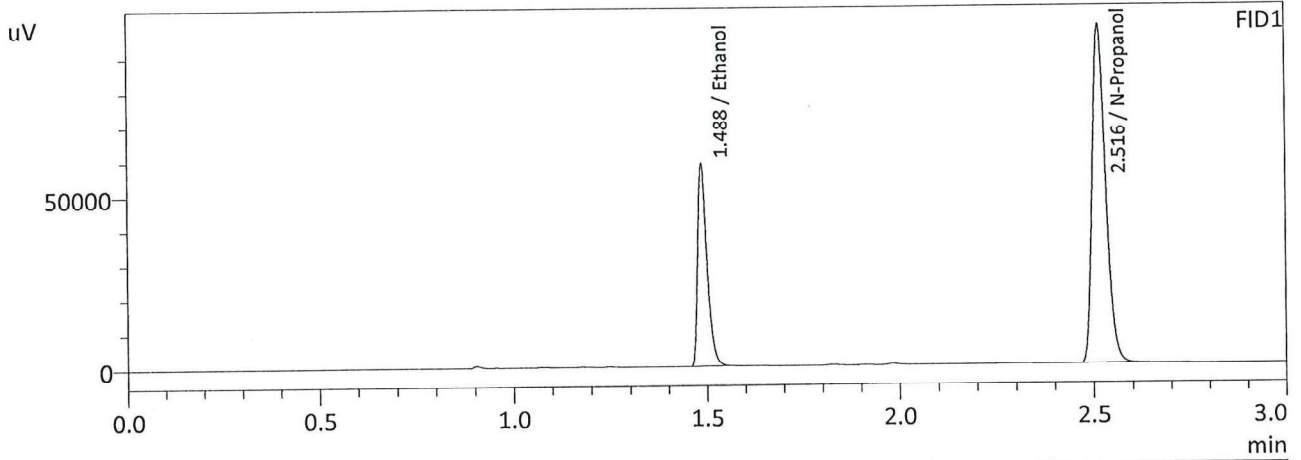
Reporting of Results	Uncertainty of Measurements (UM%): 5.00%		
Overall Mean (g/100cc)	Low	High	5 % of Mean
0.213	0.202	0.224	0.011

Reported Results	
0.213	

Calibration and control data are stored centrally.

JK

Sample Name : QC2-2  
 Laboratory : Meridian  
 Injection Date : 8/8/2023 6:08:59 PM  
 Vial # : 55  
 Method Filename : Default Project - ALCOHOL\_230807.GCM.gcm  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

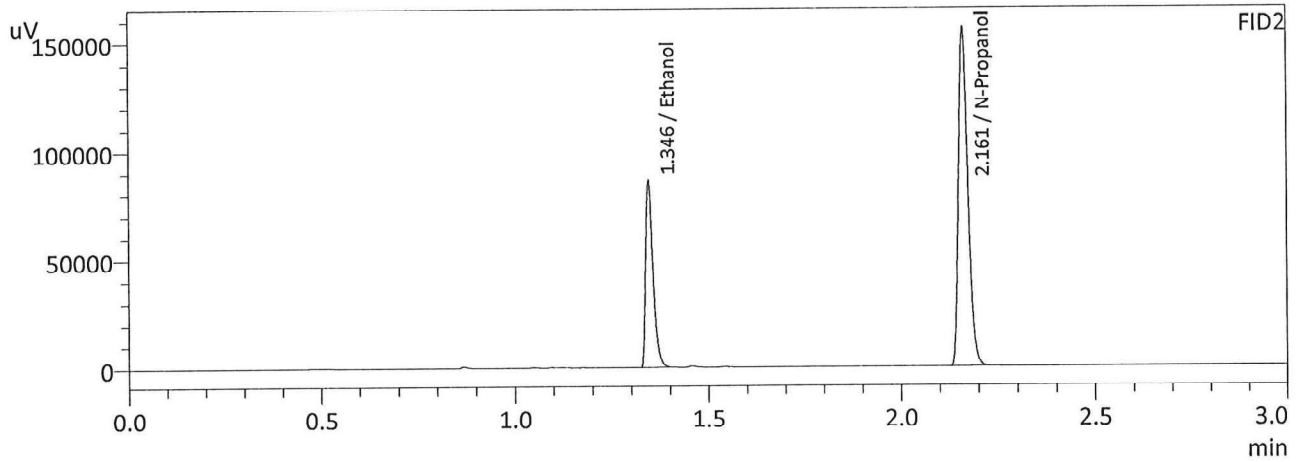
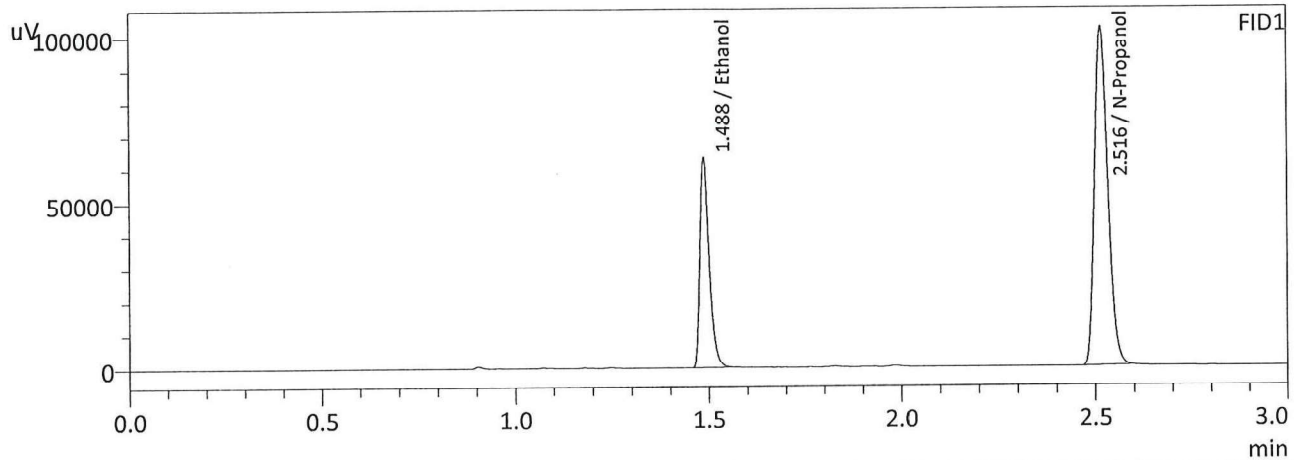
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2098	97484	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	228820	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2092	105540	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	247879	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

JK

Sample Name : QC2-2-B  
 Laboratory : Meridian  
 Injection Date : 8/8/2023 6:17:09 PM  
 Vial # : 56  
 Method Filename : Default Project - ALCOHOL\_230807.GCM.gcm  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

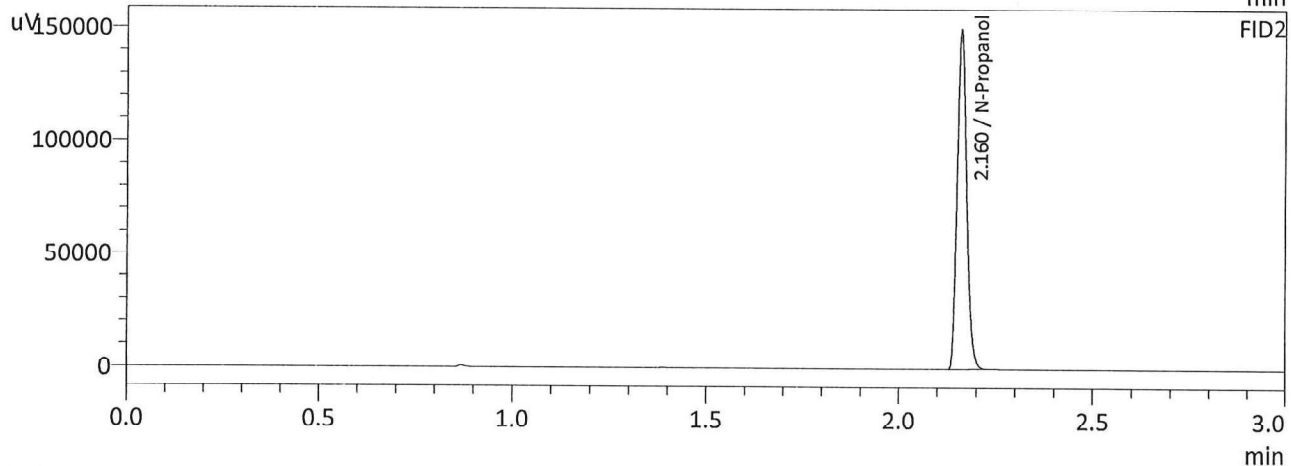
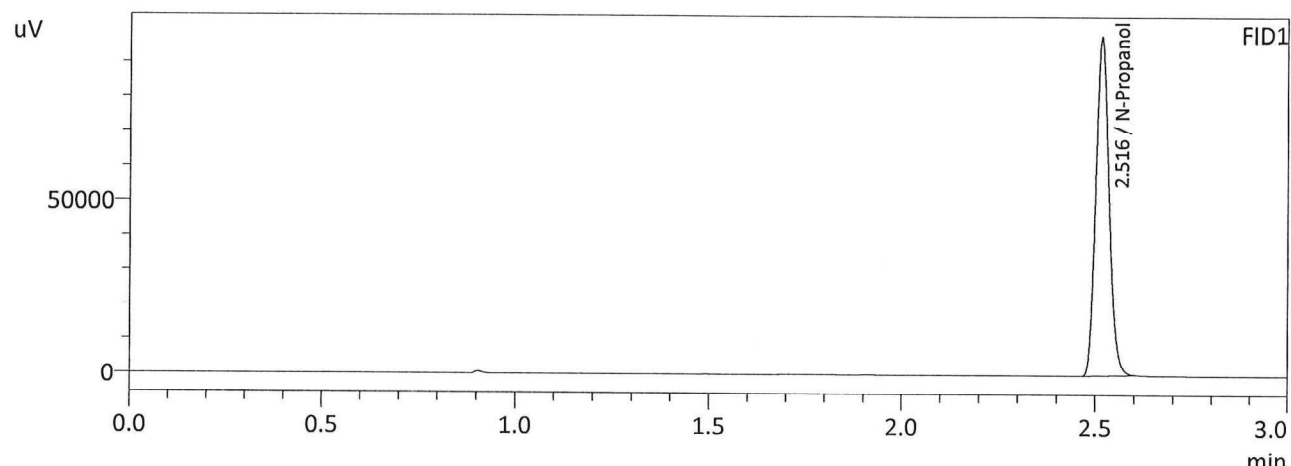
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2173	105090	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	238120	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2167	113902	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	258209	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

Sample Name : INT STD BLK  
 Laboratory : Meridian  
 Injection Date : 8/8/2023 6:26:19 PM  
 Vial # : 57  
 Method Filename : Default Project - ALCOHOL\_230807.GCM.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	228696	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	247865	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JL



# Meridian Blood Alcohol Analysis Batch Table

Shimadzu GC-2030 Serial #C12255750548  
 Shimadzu HS-20 Serial #C12595800409  
 Lab Solutions Database Software Ver. 6.111  
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Vial#	Sample Name	Sample Type	Level#	Method File
1	INT STD BLK 1	0:Unknown	0	ALCOHOL 230807.GCM.gcm
2	ED VOLATILES FN 0604	0:Unknown	1	ALCOHOL 230807.GCM.gcm
3	QC-1-1	0:Unknown	0	ALCOHOL 230807.GCM.gcm
4	QC-1-1-B	0:Unknown	0	ALCOHOL 230807.GCM.gcm
5	0.08 QA	0:Unknown	0	ALCOHOL 230807.GCM.gcm
6	0.08 QA	0:Unknown	0	ALCOHOL 230807.GCM.gcm
7	M2023-3185-1	0:Unknown	0	ALCOHOL 230807.GCM.gcm
8	M2023-3185-1-B	0:Unknown	0	ALCOHOL 230807.GCM.gcm
9	M2023-3186-1	0:Unknown	0	ALCOHOL 230807.GCM.gcm
10	M2023-3186-1-B	0:Unknown	0	ALCOHOL 230807.GCM.gcm
11	M2023-3204-1	0:Unknown	0	ALCOHOL 230807.GCM.gcm
12	M2023-3204-1-B	0:Unknown	0	ALCOHOL 230807.GCM.gcm
13	M2023-3212-1	0:Unknown	0	ALCOHOL 230807.GCM.gcm
14	M2023-3212-1-B	0:Unknown	0	ALCOHOL 230807.GCM.gcm
15	M2023-3216-1	0:Unknown	0	ALCOHOL 230807.GCM.gcm
16	M2023-3216-1-B	0:Unknown	0	ALCOHOL 230807.GCM.gcm
17	M2023-3218-1	0:Unknown	0	ALCOHOL 230807.GCM.gcm
18	M2023-3218-1-B	0:Unknown	0	ALCOHOL 230807.GCM.gcm
19	M2023-3233-1	0:Unknown	0	ALCOHOL 230807.GCM.gcm
20	M2023-3233-1-B	0:Unknown	0	ALCOHOL 230807.GCM.gcm
21	M2023-3234-1	0:Unknown	0	ALCOHOL 230807.GCM.gcm
22	M2023-3234-1-B	0:Unknown	0	ALCOHOL 230807.GCM.gcm
23	M2023-3267-1	0:Unknown	0	ALCOHOL 230807.GCM.gcm
24	M2023-3267-1-B	0:Unknown	0	ALCOHOL 230807.GCM.gcm
25	QC-2-1	0:Unknown	0	ALCOHOL 230807.GCM.gcm
26	QC-2-1-B	0:Unknown	0	ALCOHOL 230807.GCM.gcm
27	M2023-3296-1	0:Unknown	0	ALCOHOL 230807.GCM.gcm
28	M2023-3296-1-B	0:Unknown	0	ALCOHOL 230807.GCM.gcm
29	M2023-3297-1	0:Unknown	0	ALCOHOL 230807.GCM.gcm
30	M2023-3297-1-B	0:Unknown	0	ALCOHOL 230807.GCM.gcm
31	M2023-3298-1	0:Unknown	0	ALCOHOL 230807.GCM.gcm
32	M2023-3298-1-B	0:Unknown	0	ALCOHOL 230807.GCM.gcm
33	M2023-3349-1	0:Unknown	0	ALCOHOL 230807.GCM.gcm
34	M2023-3349-1-B	0:Unknown	0	ALCOHOL 230807.GCM.gcm
35	M2023-3350-1	0:Unknown	0	ALCOHOL 230807.GCM.gcm
36	M2023-3350-1-B	0:Unknown	0	ALCOHOL 230807.GCM.gcm
37	M2023-3352-1	0:Unknown	0	ALCOHOL 230807.GCM.gcm
38	M2023-3352-1-B	0:Unknown	0	ALCOHOL 230807.GCM.gcm
39	M2023-3353-1	0:Unknown	0	ALCOHOL 230807.GCM.gcm
40	M2023-3353-1-B	0:Unknown	0	ALCOHOL 230807.GCM.gcm
41	M2023-3354-1	0:Unknown	0	ALCOHOL 230807.GCM.gcm
42	M2023-3354-1-B	0:Unknown	0	ALCOHOL 230807.GCM.gcm
43	M2023-3355-1	0:Unknown	0	ALCOHOL 230807.GCM.gcm
44	M2023-3355-1-B	0:Unknown	0	ALCOHOL 230807.GCM.gcm
45	M2023-3356-1	0:Unknown	0	ALCOHOL 230807.GCM.gcm
46	M2023-3356-1-B	0:Unknown	0	ALCOHOL 230807.GCM.gcm
47	QC1-2	0:Unknown	0	ALCOHOL 230807.GCM.gcm
48	QC1-2-B	0:Unknown	0	ALCOHOL 230807.GCM.gcm
49	M2023-3359-2	0:Unknown	0	ALCOHOL 230807.GCM.gcm
50	M2023-3359-2-B	0:Unknown	0	ALCOHOL 230807.GCM.gcm
51	M2023-3392-2	0:Unknown	0	ALCOHOL 230807.GCM.gcm
52	M2023-3392-2-B	0:Unknown	0	ALCOHOL 230807.GCM.gcm
53	M2023-3400-1	0:Unknown	0	ALCOHOL 230807.GCM.gcm
54	M2023-3400-1-B	0:Unknown	0	ALCOHOL 230807.GCM.gcm
55	QC2-2	0:Unknown	0	ALCOHOL 230807.GCM.gcm
56	QC2-2-B	0:Unknown	0	ALCOHOL 230807.GCM.gcm
57	INT STD BLK	0:Unknown	0	ALCOHOL 230807.GCM.gcm