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): 1/20/2023**

Calibration Date: *(if different)* **1/20/23**

Worklist #: 6221

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Feb-25	2101199	0.0808	0.0727-0.0889	0.0789 g/100cc
					0.0824 g/100cc
					g/100cc
Level 2	Jul-23	1907007	0.2170	0.1953-0.2387	0.2137 g/100cc
					0.2123 g/100cc
					g/100cc

Multi-Component mixture:	Exp:	Oct. 2024	Lot #	FN06041902	
Curve Fit:		Column 1	0.99962	Column2	0.99964

REVIEWED
By Rachel Cutler at 8:04 am, Jan 24, 2023

Ethanol Calibration Reference Material

Calibrator level	Target Value	Acceptable Range	Column 1	Column 2	Precision	Mean
50	0.050	0.045 - 0.055	0.0545	0.0544	0.0001	0.0544
100	0.100	0.090 - 0.110	0.0988	0.0987	0.0001	0.0987
200	0.200	0.180 - 0.220	0.1961	0.1961	0	0.1961
300	0.300	0.270 - 0.330	0.2979	0.2982	0.0003	0.298
400	0.400	0.360 - 0.440	N/A	N/A	########	#DIV/0!
500	0.500	0.450 - 0.550	0.5025	0.5023	0.0002	0.5024

Aqueous Controls

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

Internal Standard Monitoring Worksheet

Worklist #:	6221	Run Date(s):	1/20/2023

Internal Standard Solution:	Prep Date: 8/31/2022	Exp Date: 2/31/23

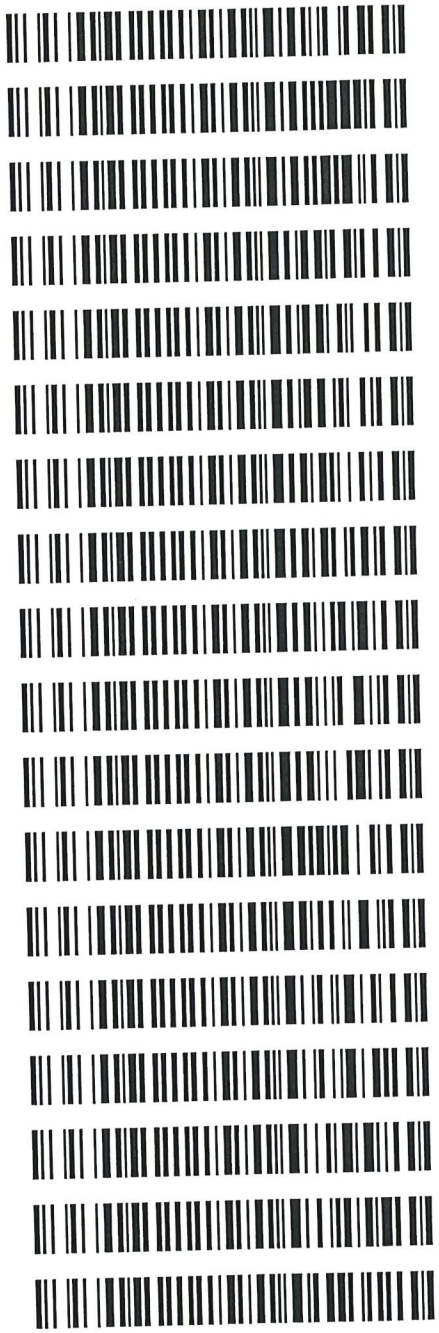
Sample Name	Column 1 Value	Column 2 Value
0.080	192239	208422
0.080	196046	212653
QC1	194126	210358
QC1	195520	212011
QC1	237501	258357
QC1	229738	249811
QC1		
QC1		
QC2	211321	229634
QC2	218421	237213
QC2	244761	266107
QC2	246959	268112
QC2		
QC2		

	Average	(-)20%	(+)20%
Column 1	216663.2	173330.6	259995.8
Column 2	235267.8	188214.2	282321.4

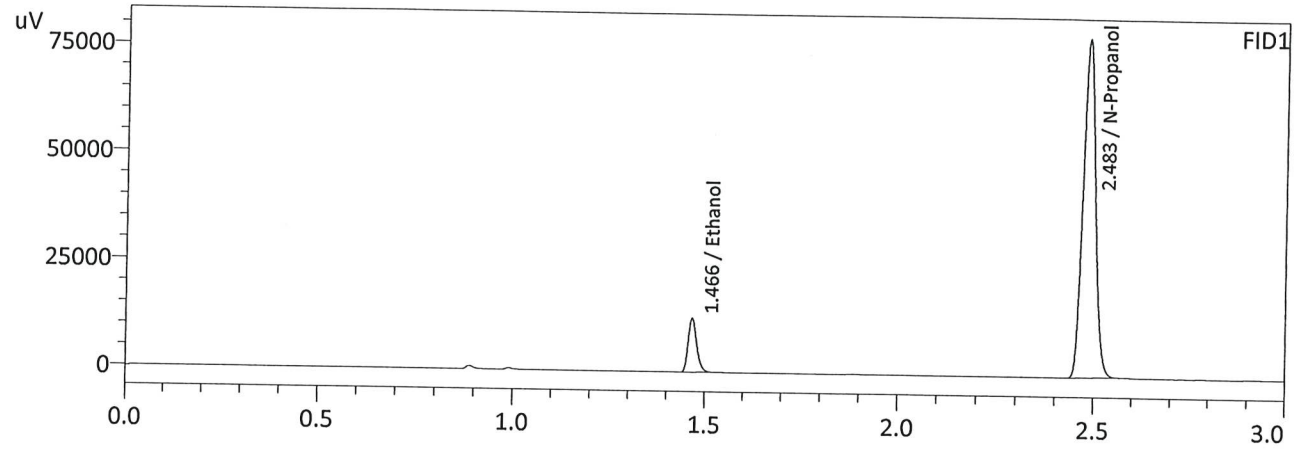
Revision: 5
Issue Date: 07/05/2022
Issuing Authority: Quality Manager

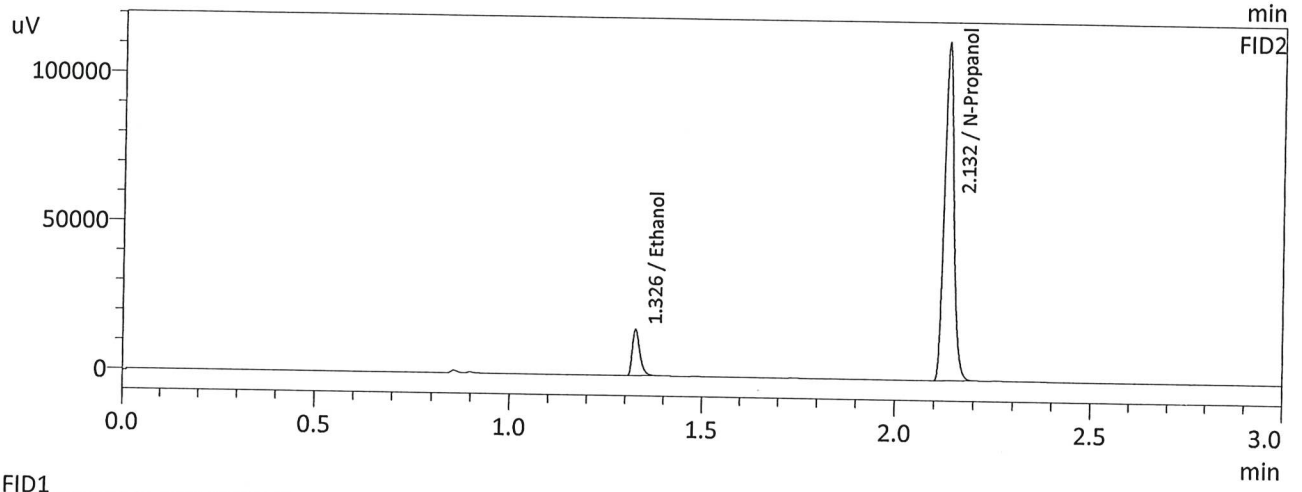
Worklist: 6221

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
M2022-5403	1	BCK	Alcohol Analysis
M2022-5413	1	BCK	Alcohol Analysis
M2022-5414	1	BCK	Alcohol Analysis
M2023-0001	1	BCK	Alcohol Analysis
M2023-0002	1	BCK	Alcohol Analysis
M2023-0003	1	BCK	Alcohol Analysis
M2023-0025	1	BCK	Alcohol Analysis
M2023-0026	1	BCK	Alcohol Analysis
M2023-0027	1	BCK	Alcohol Analysis
M2023-0028	1	BCK	Alcohol Analysis
M2023-0029	1	BCK	Alcohol Analysis
M2023-0037	1	BCK	Alcohol Analysis
M2023-0053	1	BCK	Alcohol Analysis
M2023-0097	1	BCK	Alcohol Analysis
M2023-0098	1	BCK	Alcohol Analysis
M2023-0127	1	BCK	Alcohol Analysis
M2023-0132	1	BCK	Alcohol Analysis
M2023-0200	1	BCK	Alcohol Analysis



Sample Name : 0.050
Laboratory : Meridian
Injection Date : 1/20/2023 12:39:24 PM
Vial # : 1
Method Filename : C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409





FID1

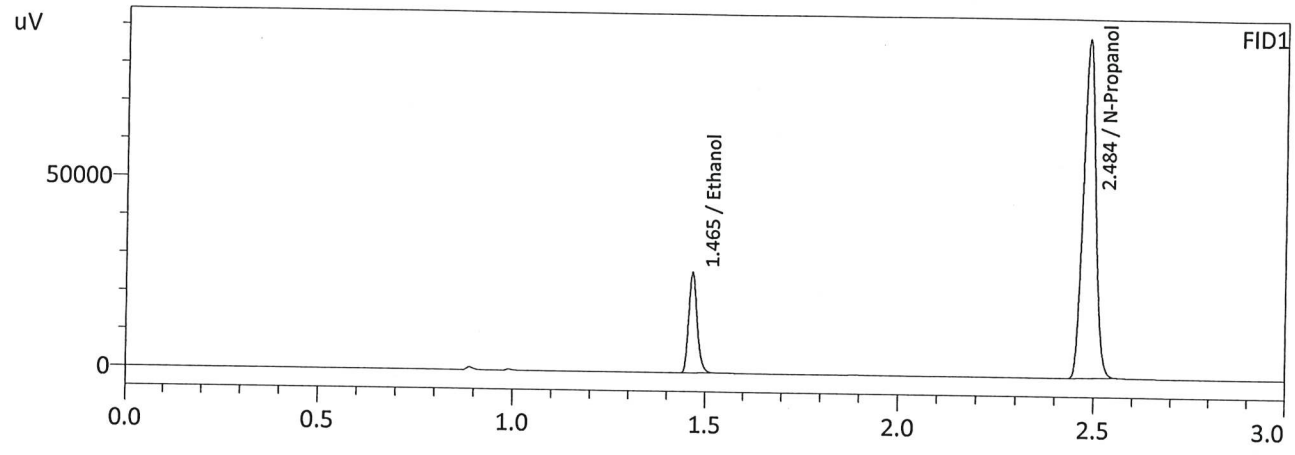
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0545	19473	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	174605	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

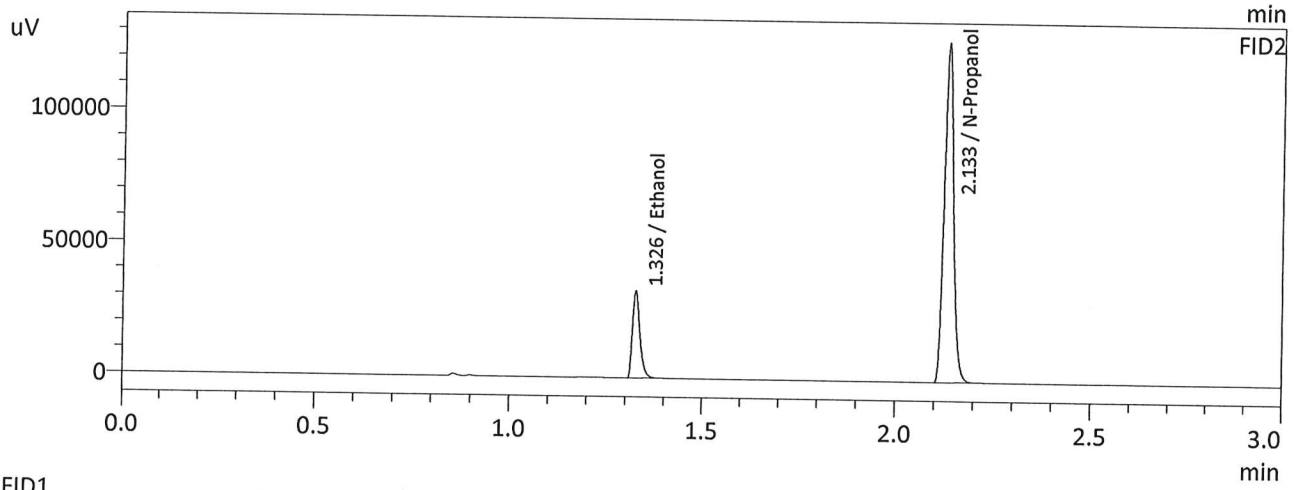
FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0544	20893	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	189057	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JC

Sample Name : 0.100
Laboratory : Meridian
Injection Date : 1/20/2023 12:46:43 PM
Vial # : 2
Method Filename : C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409





FID1

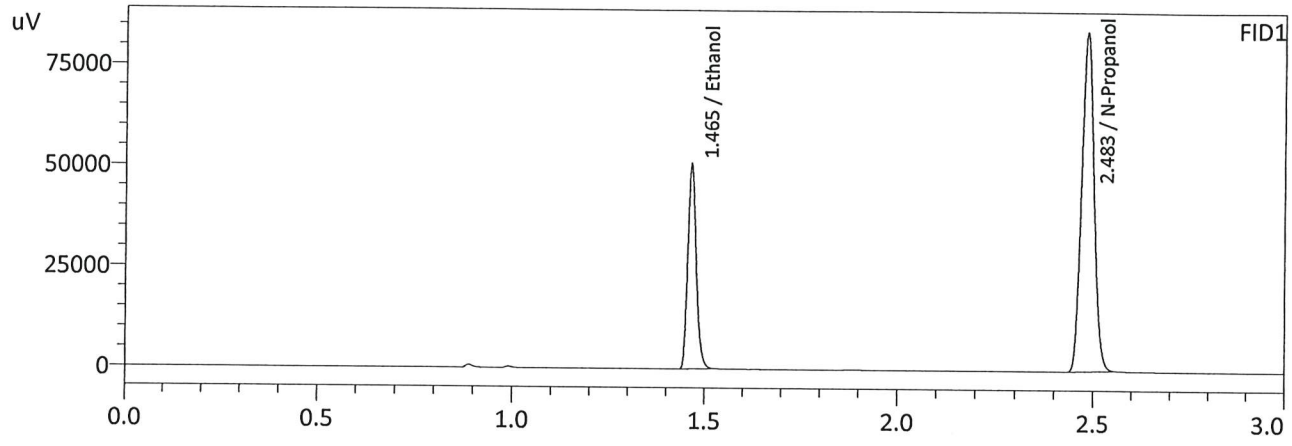
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0988	40821	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	196928	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

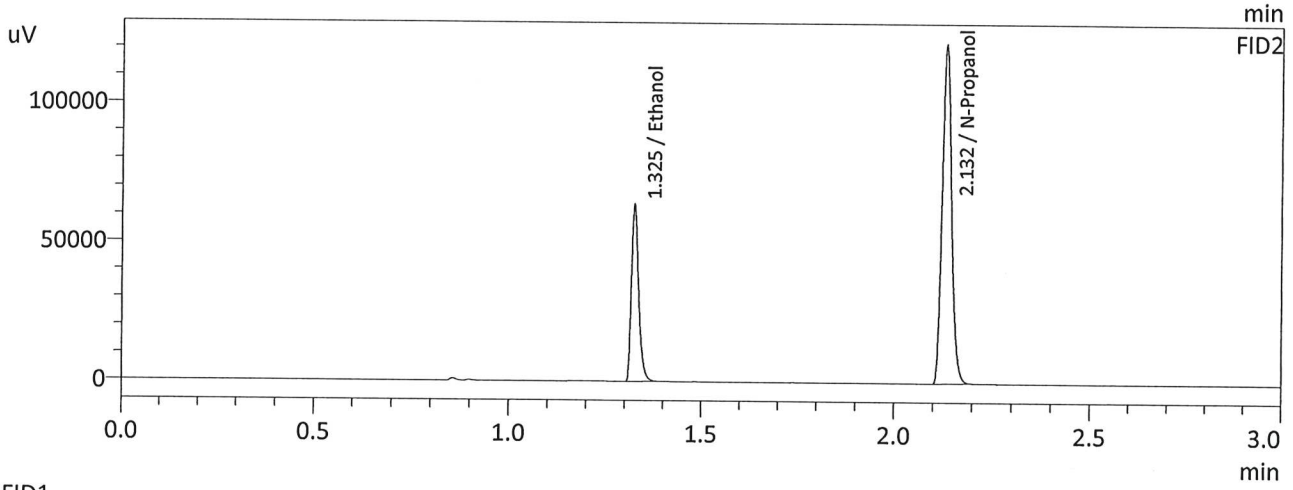
FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0987	43939	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	213180	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

Sample Name : 0.200
Laboratory : Meridian
Injection Date : 1/20/2023 12:54:04 PM
Vial # : 3
Method Filename : C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409





FID1

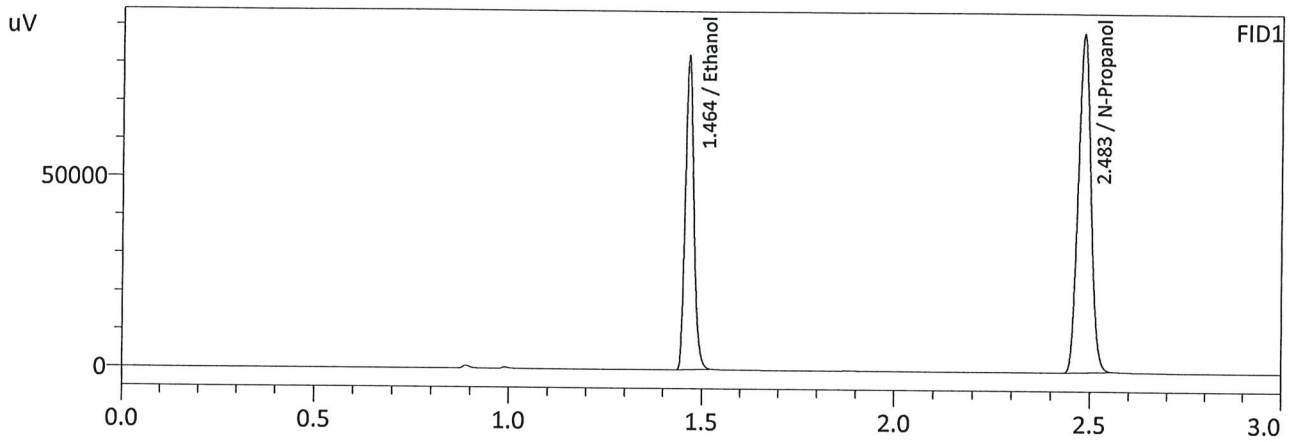
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1961	78146	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	187186	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

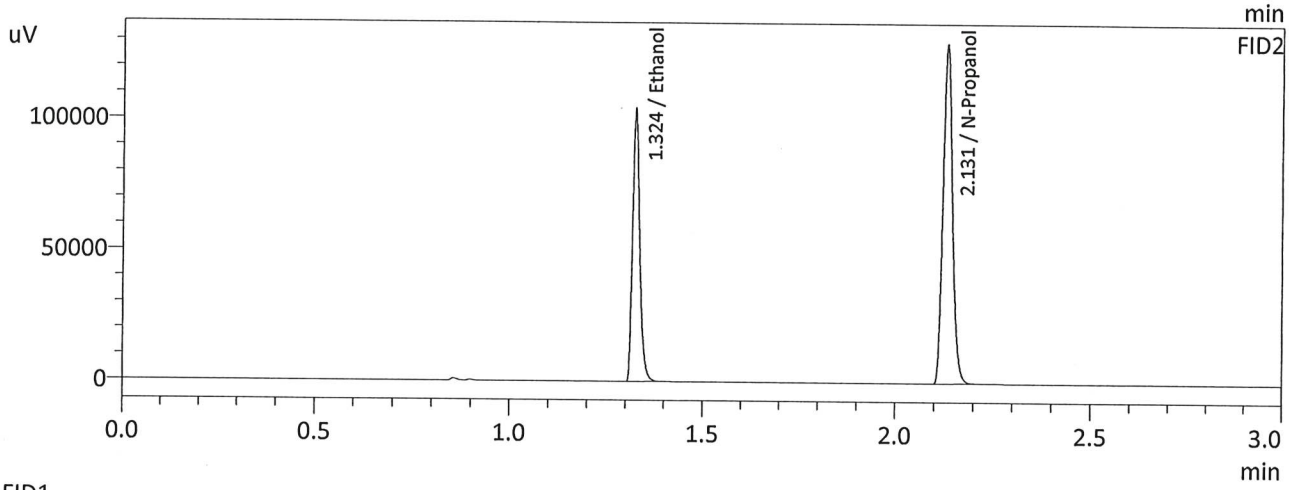
FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1961	84429	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	202596	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

Sample Name : 0.300
Laboratory : Meridian
Injection Date : 1/20/2023 1:03:02 PM
Vial # : 4
Method Filename : C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409





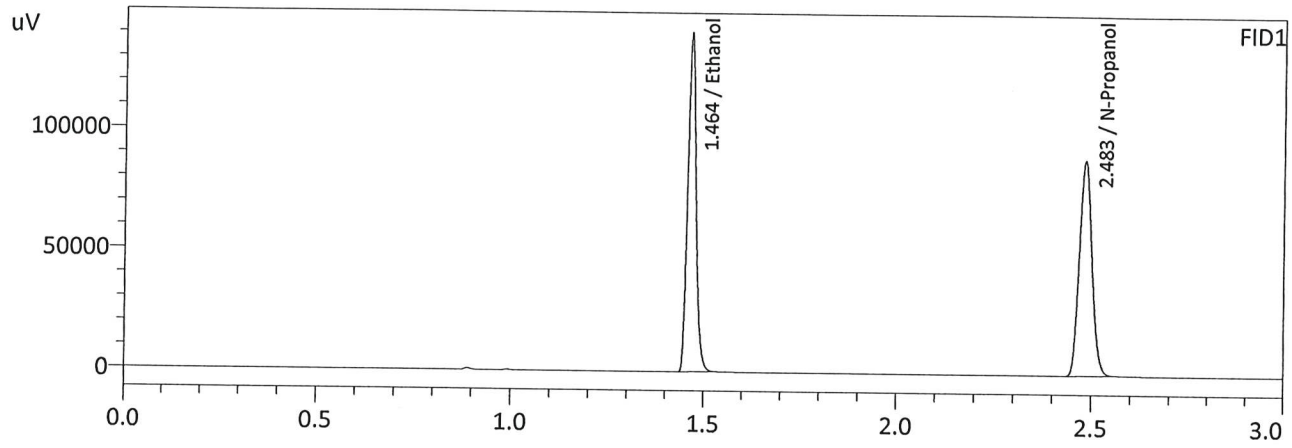
FID1

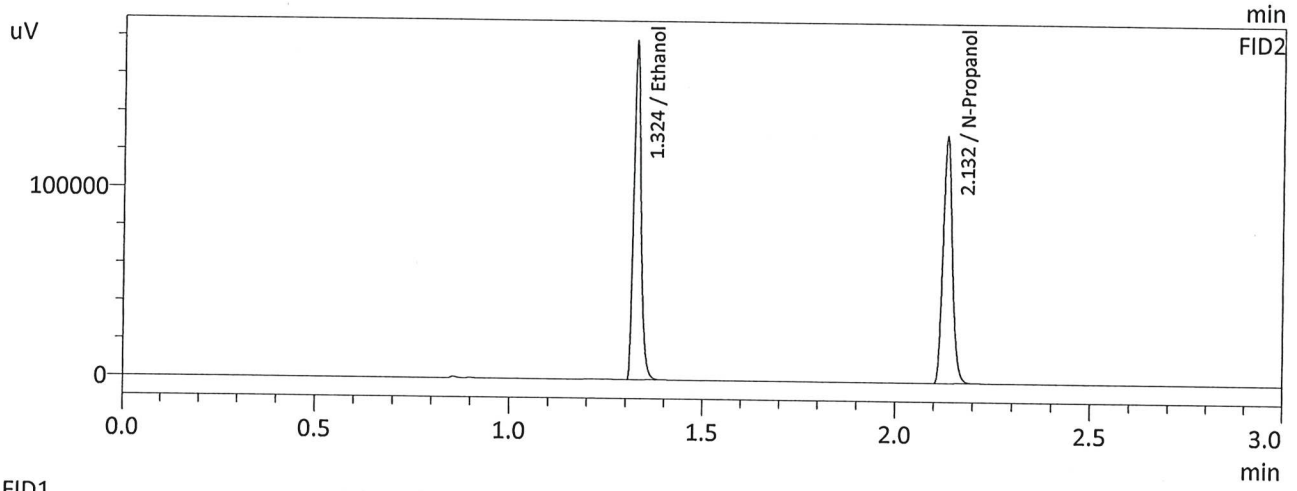
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2979	126328	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	198152	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2982	136708	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	214447	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

Sample Name : 0.500
Laboratory : Meridian
Injection Date : 1/20/2023 1:10:20 PM
Vial # : 5
Method Filename : C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409





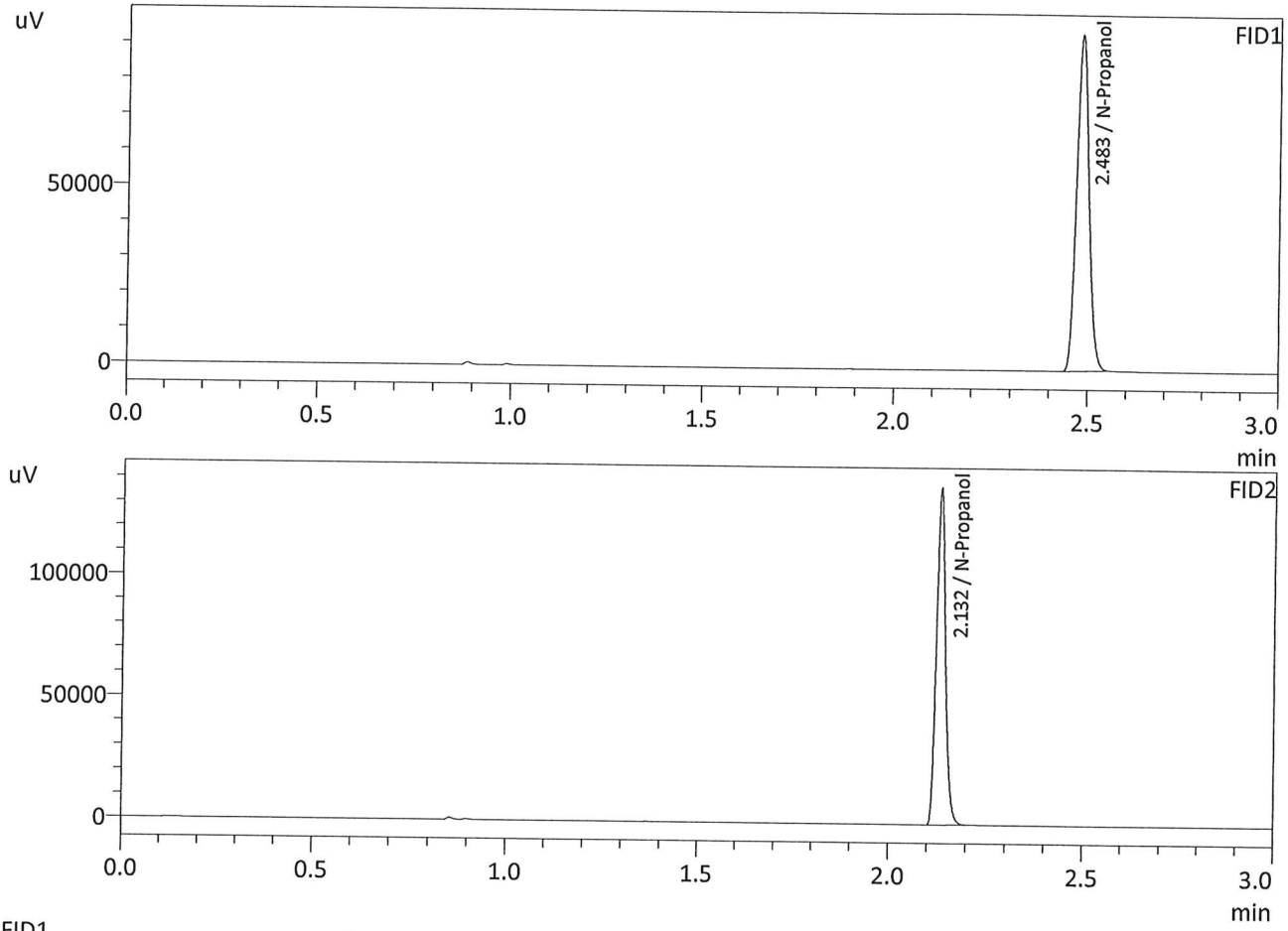
FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.5025	215831	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	199913	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.5023	233514	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	216473	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

Sample Name : INT STD BLK
Laboratory : Meridian
Injection Date : 1/20/2023 1:18:44 PM
Vial # : 6
Method Filename : C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.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	210634	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	228635	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

Meridian Blood Alcohol Analysis Batch Table

Shimadzu GC-2030 Serial #C12255750548
Shimadzu HS-20 Serial #C12595800409
Lab Solutions Software Ver. 5.99

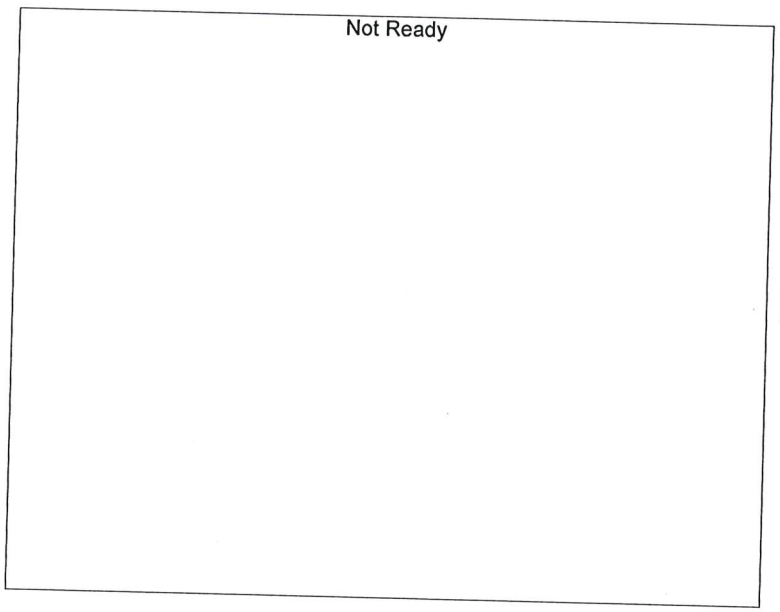
Vial#	Sample Name	Sample Type	Level#	Method File
1	0.050	1:Standard:(I)	1	ALCOHOL.GCM
2	0.100	1:Standard	2	ALCOHOL.GCM
3	0.200	1:Standard	3	ALCOHOL.GCM
4	0.300	1:Standard	4	ALCOHOL.GCM
5	0.500	1:Standard	5	ALCOHOL.GCM
6	INT STD BLK	0:Unknown	0	ALCOHOL.GCM

JG

Calibration Table

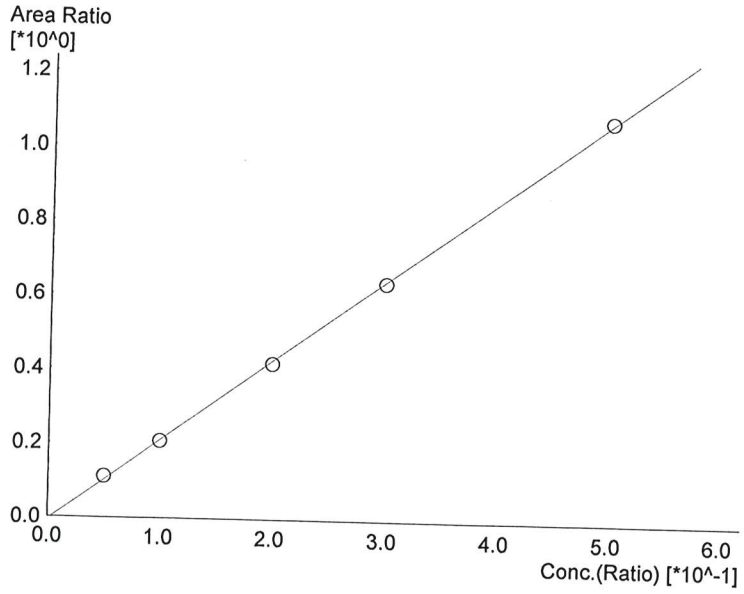
Laboratory : MERIDIAN
Instrument Name : GC-HS
Instrument Serial # : C12595800409 / C12255750548

<<Data File>>
Method File :C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
Batch File :C:\LabSolutions\Data\230120\CALIBRATION\CALCURVE_TEMPLATE.gcb
Date Acquired :1/20/2023 1:10:20 PM
Date Created :1/20/2023 1:06:10 PM
Date Modified :1/20/2023 1:13:21 PM



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

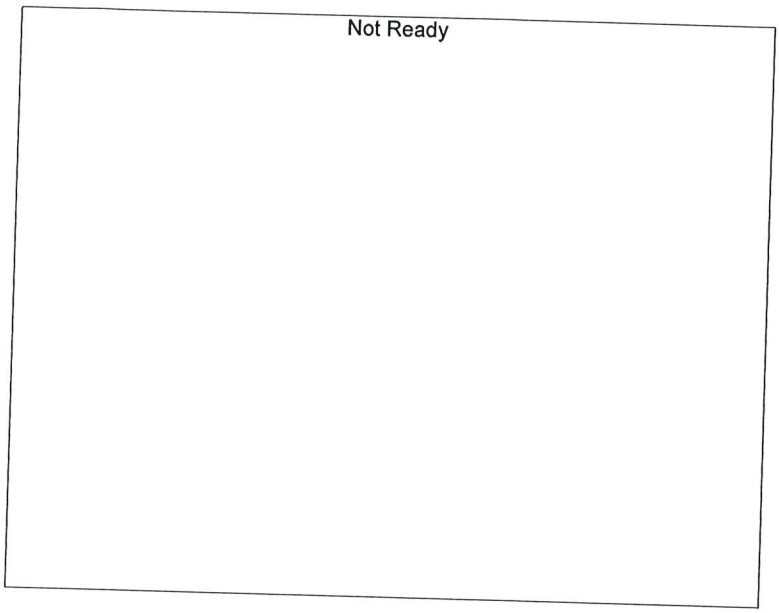
#	Conc.	Area	Std. Conc.



Name : Ethanol
Detector Name: FID1
Function : f(x)=2.16078*x-0.00628727
R^2 value= 0.9996283
FitType: Linear
ZeroThrough: Not Through

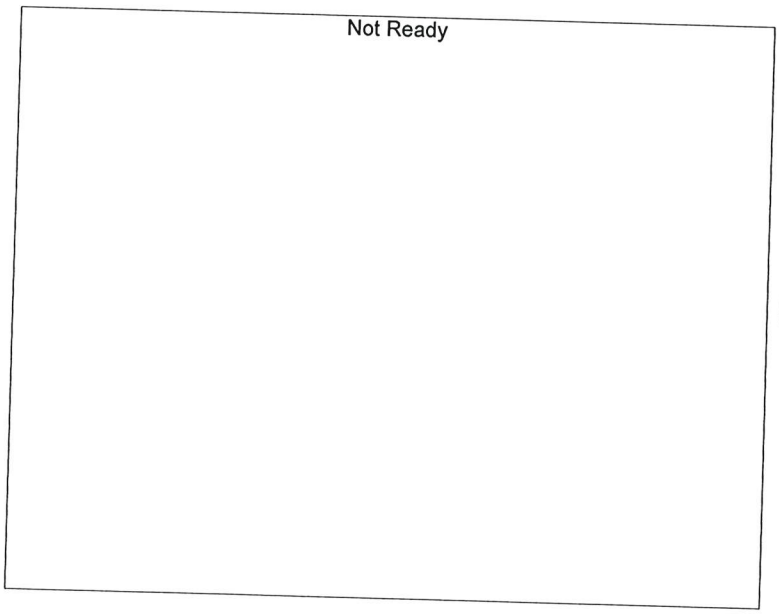
#	Conc.	Area	Std. Conc.
1	0.050	19473	0.0545
2	0.100	40821	0.0988
3	0.200	78146	0.1961
4	0.300	126328	0.2979
5	0.500	215831	0.5025

JG



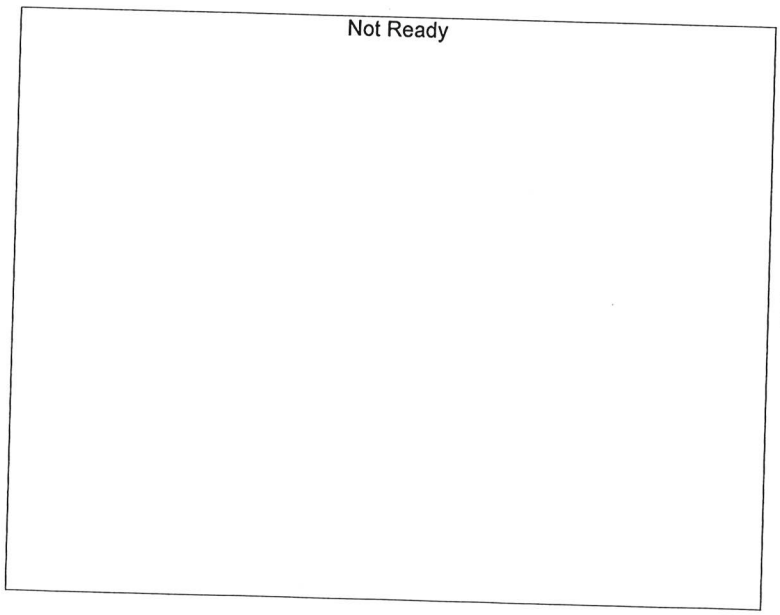
Name : Isopropyl Alcohol
Detector Name: FID1
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.



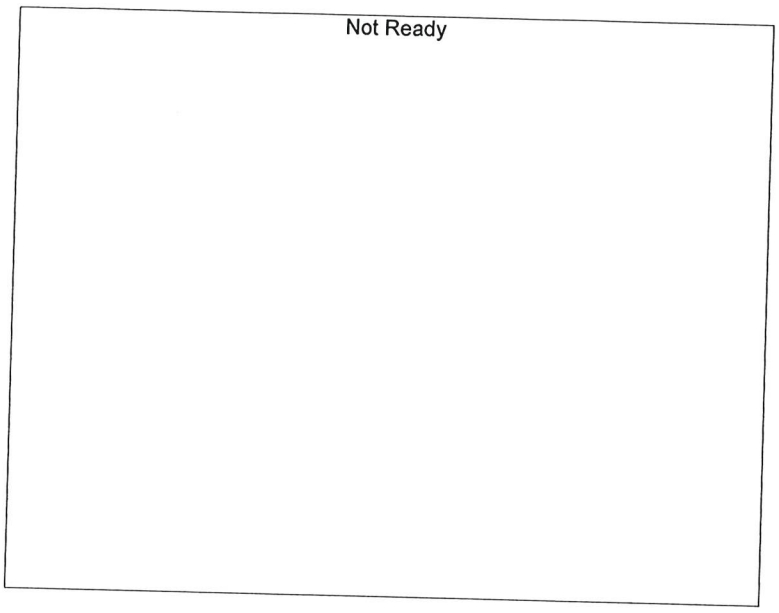
Name : Acetone
Detector Name: FID1
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.



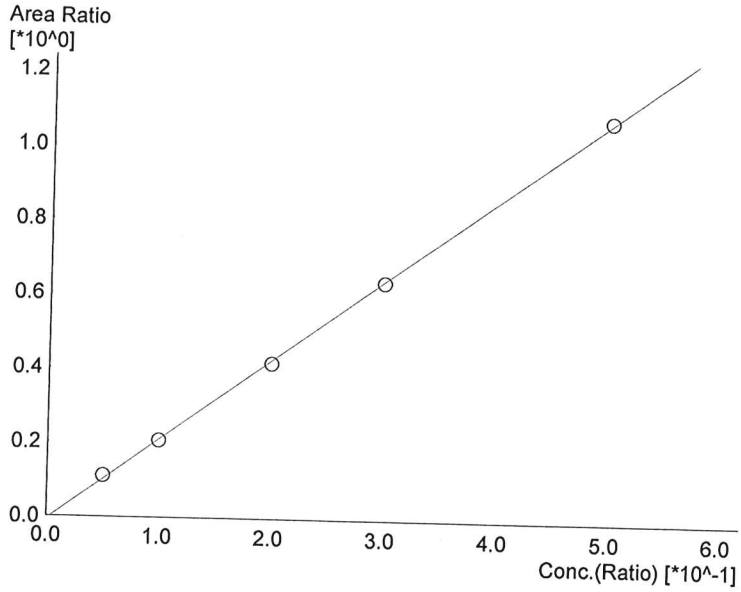
Name : Fluor. Hydrocarbon(s)
Detector Name: FID1
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.



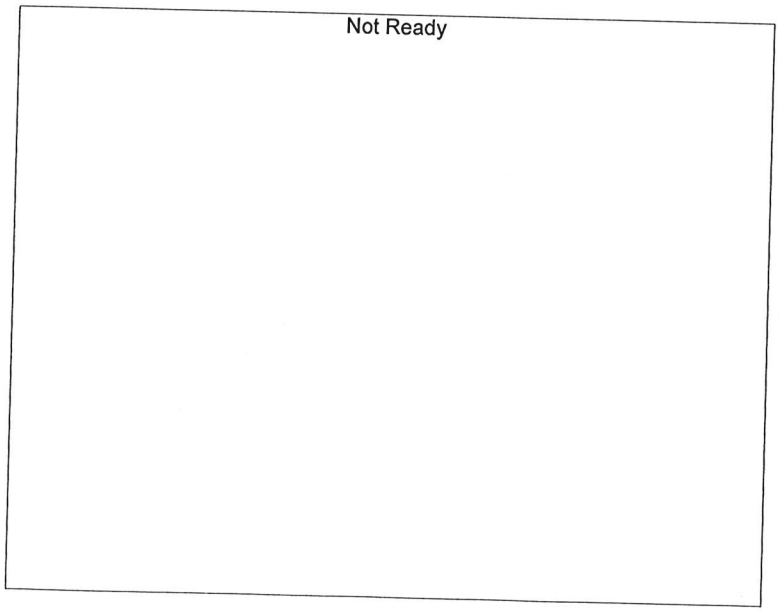
Name : Methanol
Detector Name: FID2
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.



Name : Ethanol
Detector Name: FID2
Function : f(x)=2.16164*x-0.00726304
R^2 value= 0.9996462
FitType: Linear
ZeroThrough: Not Through

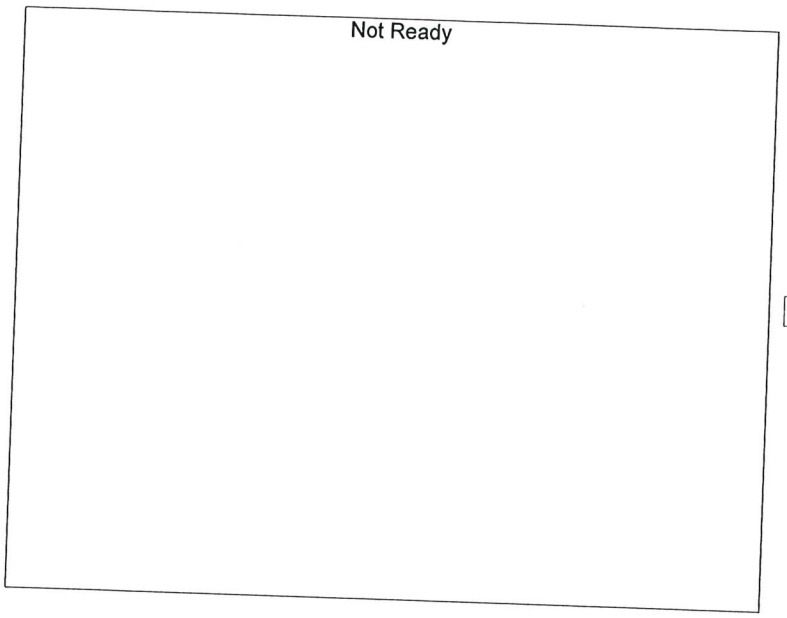
#	Conc.	Area	Std. Conc.
1	0.050	20893	0.0544
2	0.100	43939	0.0987
3	0.200	84429	0.1961
4	0.300	136708	0.2982
5	0.500	233514	0.5023



Name : Acetone
Detector Name: FID2
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

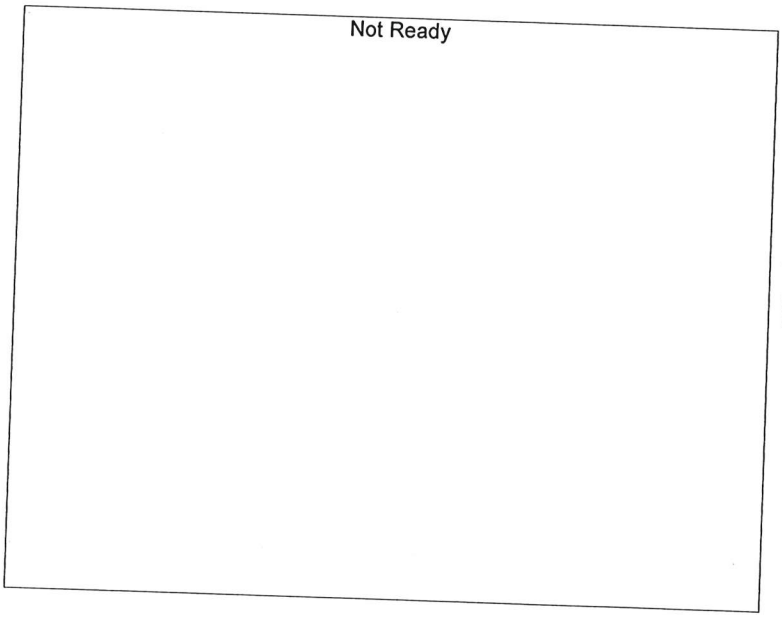
#	Conc.	Area	Std. Conc.

16



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.

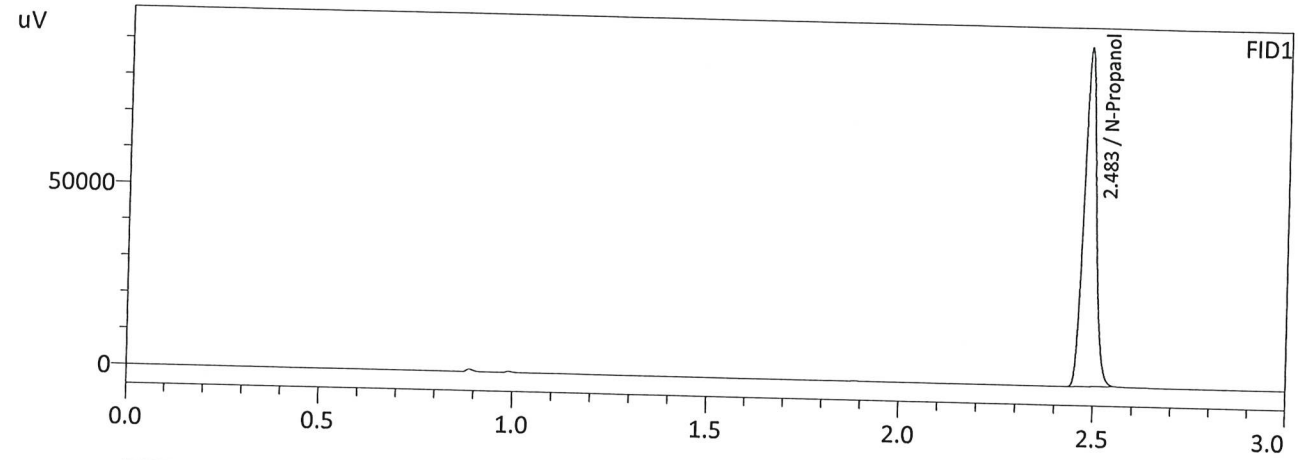


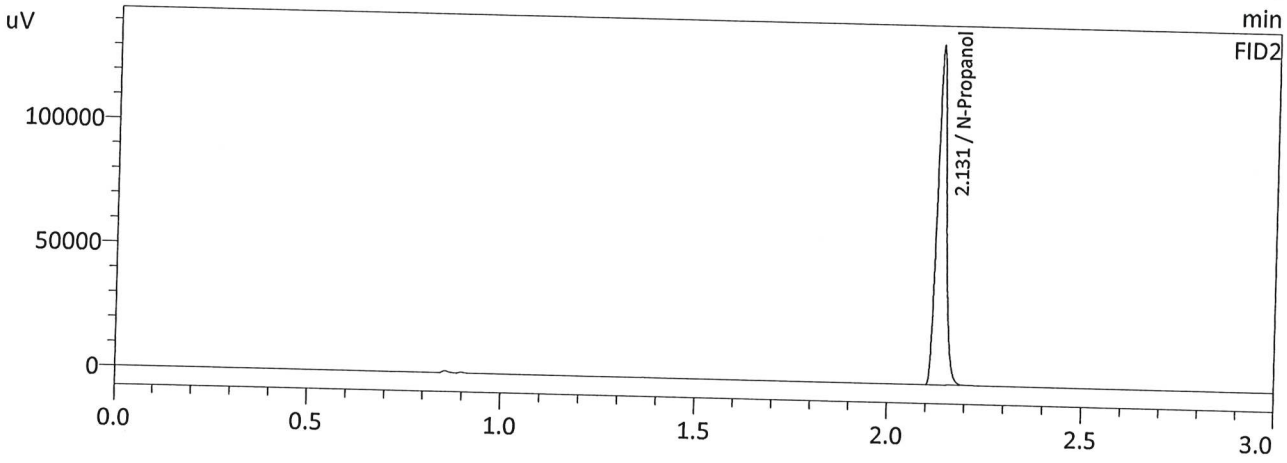
Name : Flour. Hydrocarbon(s)
Detector Name: FID2
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.

JG

Sample Name : INT STD BLK 1
Laboratory : Meridian
Injection Date : 1/20/2023 2:10:22 PM
Vial # : 1
Method Filename : C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409





FID1

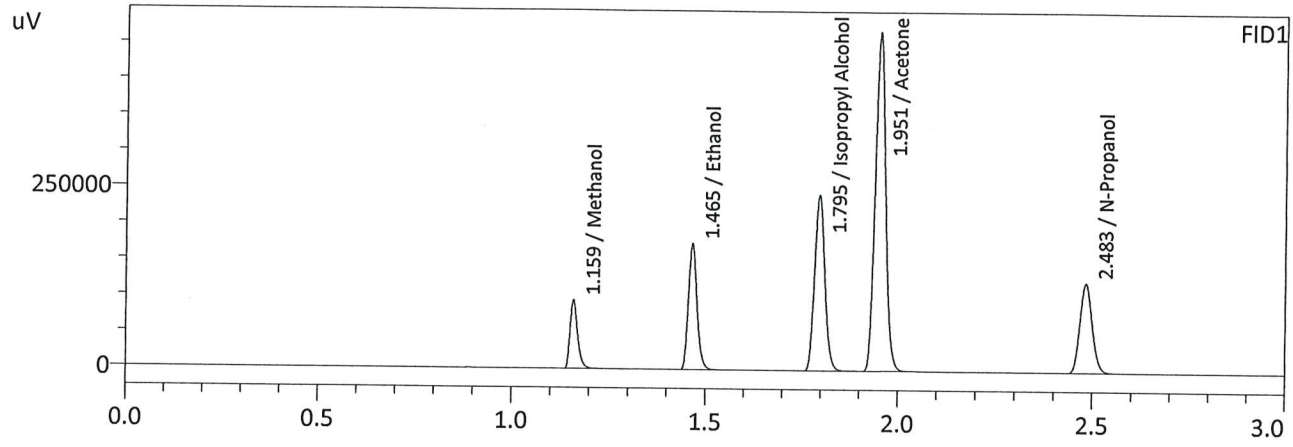
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	208137	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

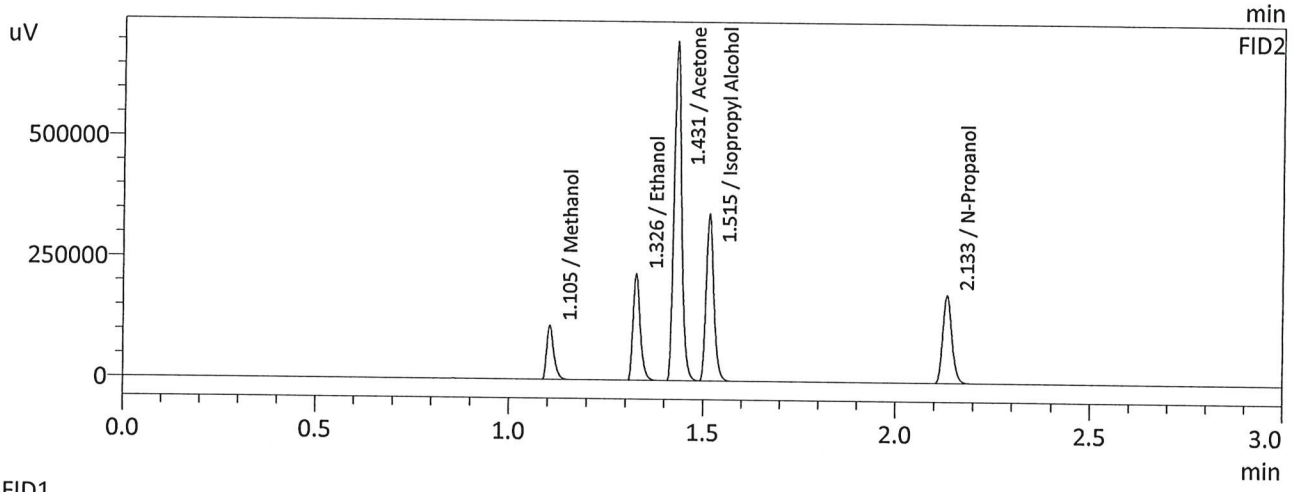
FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	226031	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

Sample Name : MIXED VOLATILES FN 06041902
Laboratory : Meridian
Injection Date : 1/20/2023 2:17:42 PM
Vial # : 2
Method Filename : C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409





FID1

Name	Conc.	Area	Unit
Methanol	0.0000	127836	g/100cc
Ethanol	0.4505	267160	g/100cc
Isopropyl Alcohol	0.0000	444750	g/100cc
Acetone	0.0000	876196	g/100cc
N-Propanol	0.0000	276188	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	0.0000	138806	g/100cc
Ethanol	0.4513	289526	g/100cc
Acetone	0.0000	947493	g/100cc
Isopropyl Alcohol	0.0000	480897	g/100cc
N-Propanol	0.0000	298955	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

VOLATILES BAC CASEFILE WORKSHEET

Laboratory No.: QC 1-1 **Item #** **Analysis Date(s): 1/20/23**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0786	0.0786	0.0000	0.0786	0.0006	0.0789
(g/100cc)	0.0793	0.0792	0.0001	0.0792		

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

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

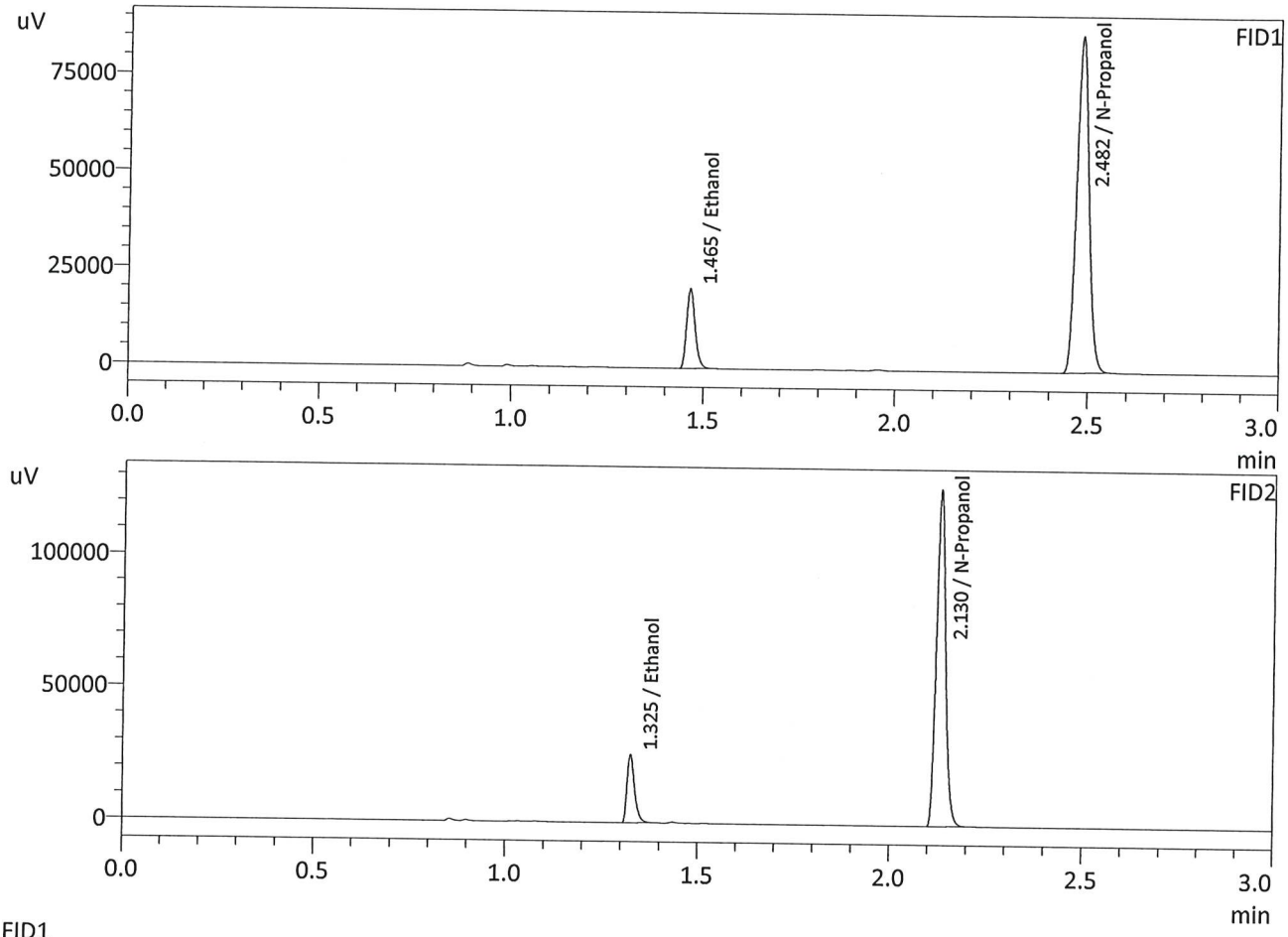
Overall Mean (g/100cc)	Low	High	5% of Mean
0.078	0.074	0.082	0.004

	Reported Result	Notes:
	0.078	

Calibration and control data are stored centrally.

JL

Sample Name : QC-1-1-A
Laboratory : Meridian
Injection Date : 1/20/2023 2:25:19 PM
Vial # : 3
Method Filename : C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

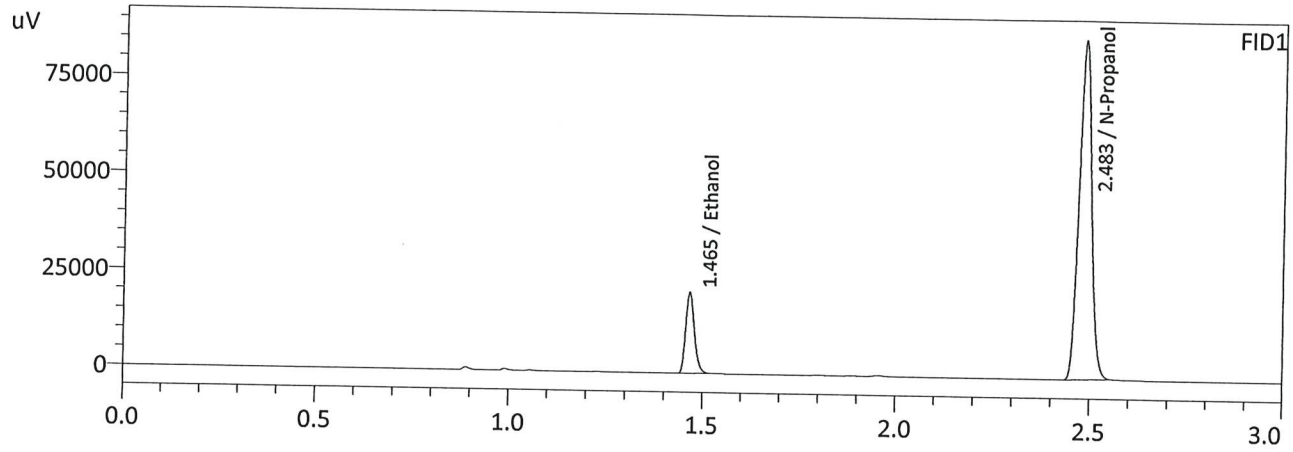
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0786	31782	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	194126	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

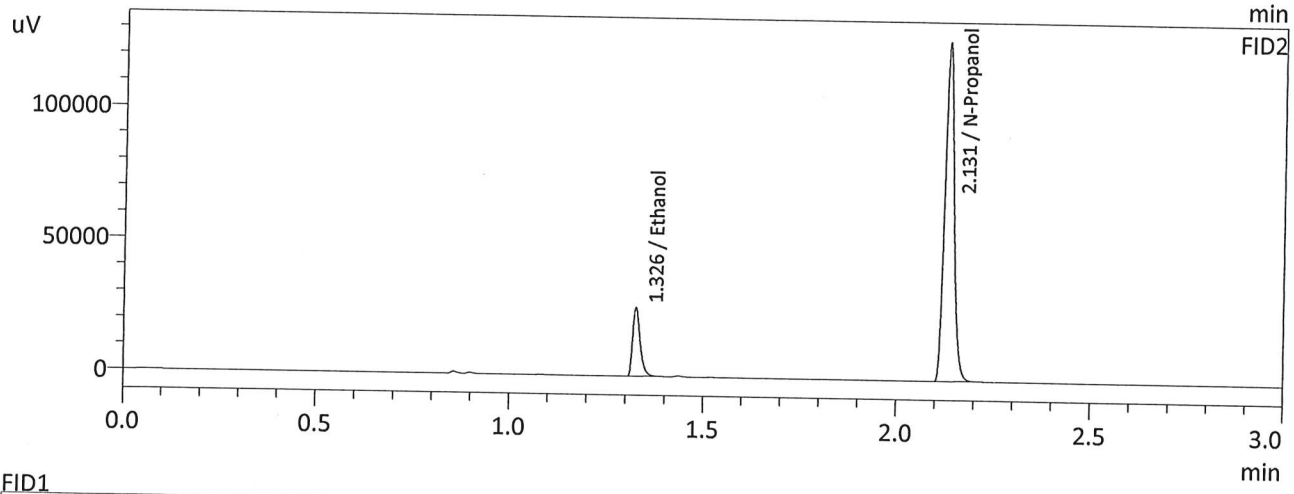
FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0786	34243	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	210358	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

Sample Name : QC-1-1-B
Laboratory : Meridian
Injection Date : 1/20/2023 2:33:47 PM
Vial # : 4
Method Filename : C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409





FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0793	32291	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	195520	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0792	34762	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	212011	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

J6

VOLATILES BAC CASEFILE WORKSHEET

Laboratory No.: 0.080 QA **Item #** **Analysis Date(s): 1/20/23**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0789	0.0787	0.0002	0.0788	0.0034	0.0805
(g/100cc)	0.0823	0.0822	0.0001	0.0822		

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

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

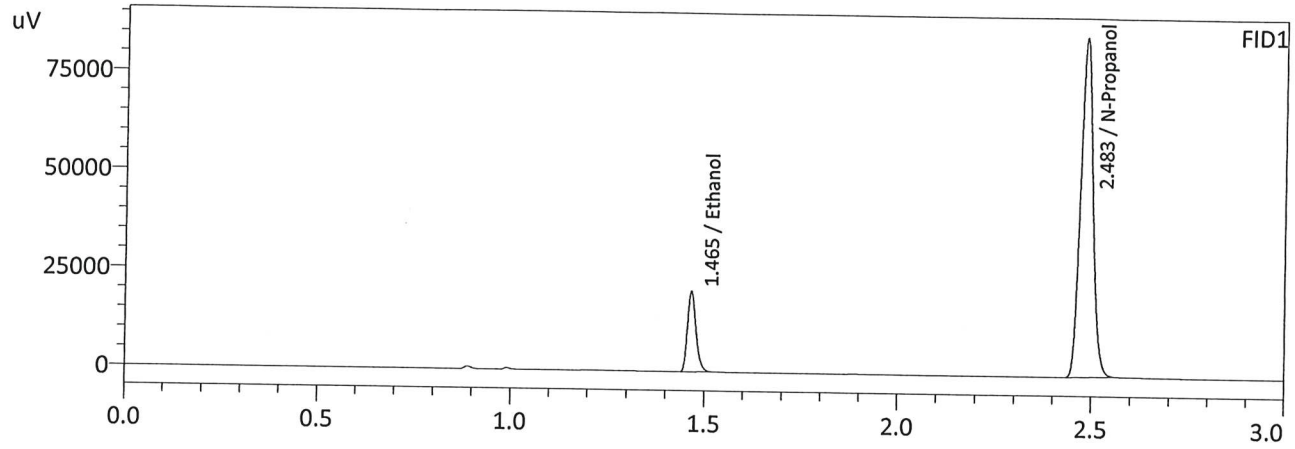
Overall Mean (g/100cc)	Low	High	5% of Mean
0.080	0.076	0.084	0.004

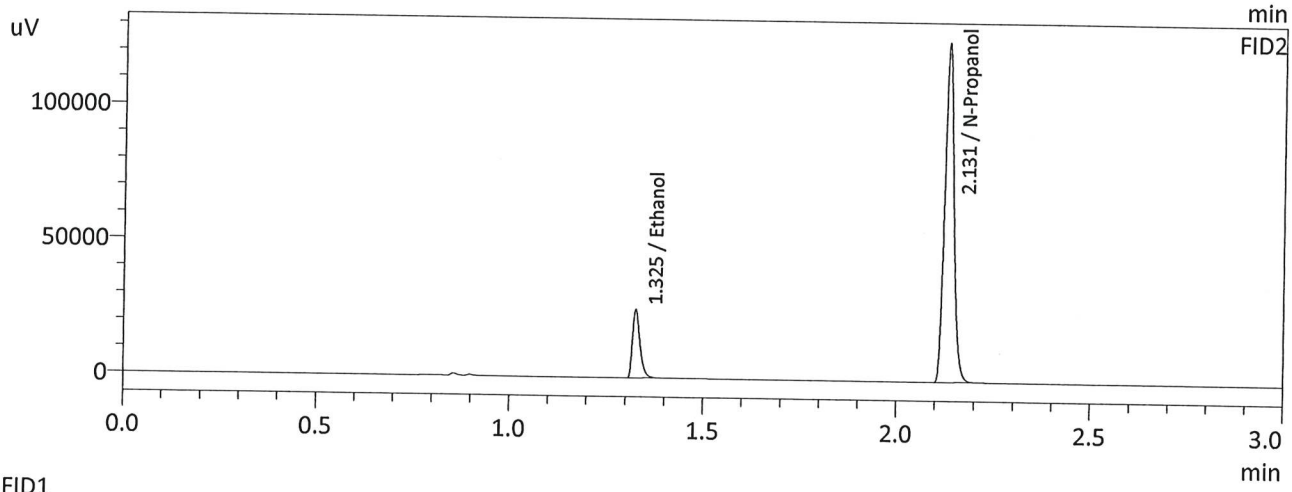
	Reported Result	Notes:
	0.080	

Calibration and control data are stored centrally.

JL

Sample Name : 0.08 QA-A
Laboratory : Meridian
Injection Date : 1/20/2023 2:41:31 PM
Vial # : 5
Method Filename : C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409





FID1

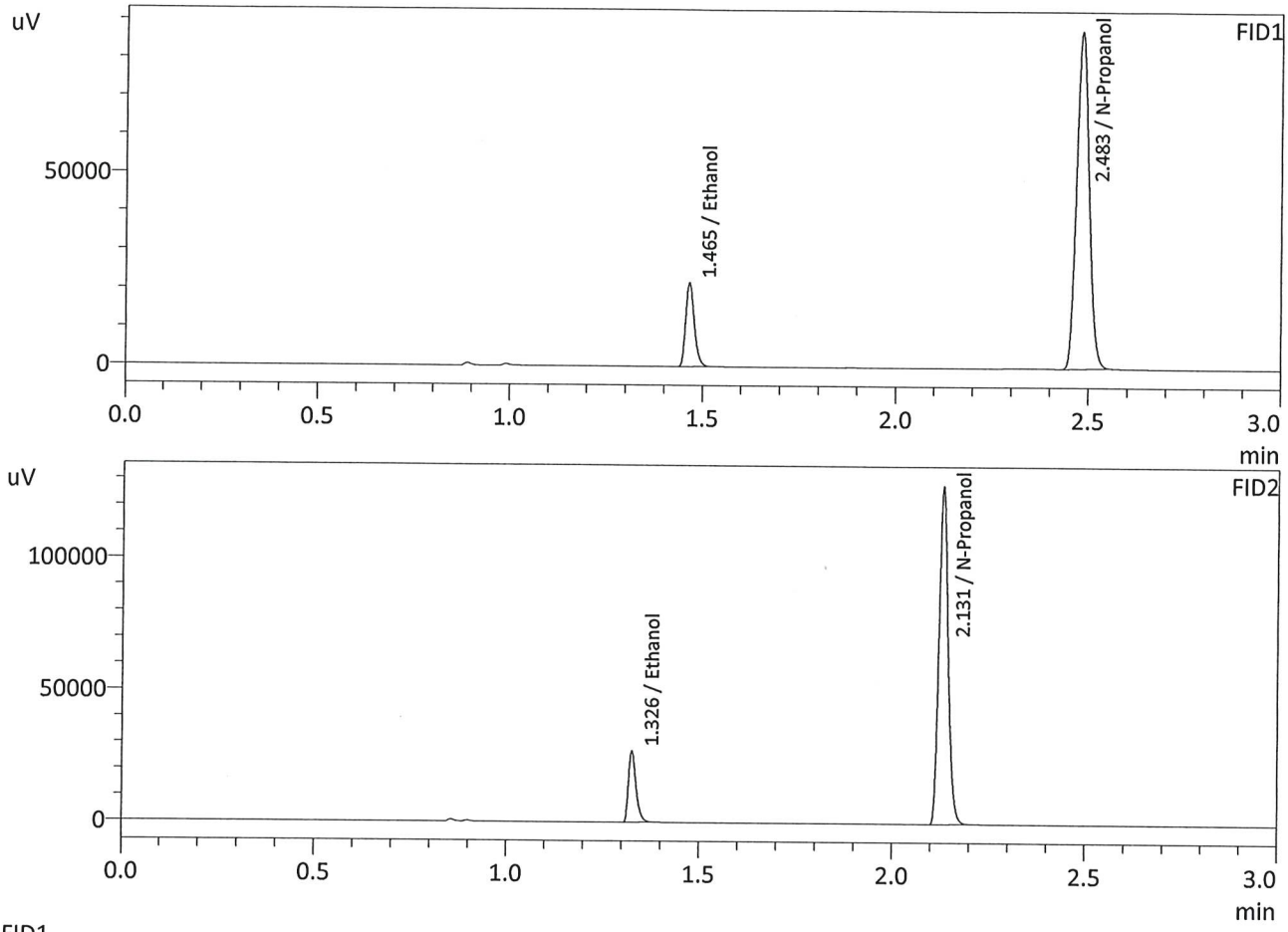
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0789	31582	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	192239	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0787	33976	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	208422	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

Sample Name : 0.08 QA-B
Laboratory : Meridian
Injection Date : 1/20/2023 2:50:15 PM
Vial # : 6
Method Filename : C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0823	33672	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	196046	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0822	36279	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	212653	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

VOLATILES BAC CASEFILE WORKSHEET

Laboratory No.: QC 2-1 **Item #** **Analysis Date(s): 1/20/23**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.2136	0.2139	0.0003	0.2137	0.0000	0.2137
(g/100cc)	0.2137	0.2137	0.0000	0.2137		

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

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

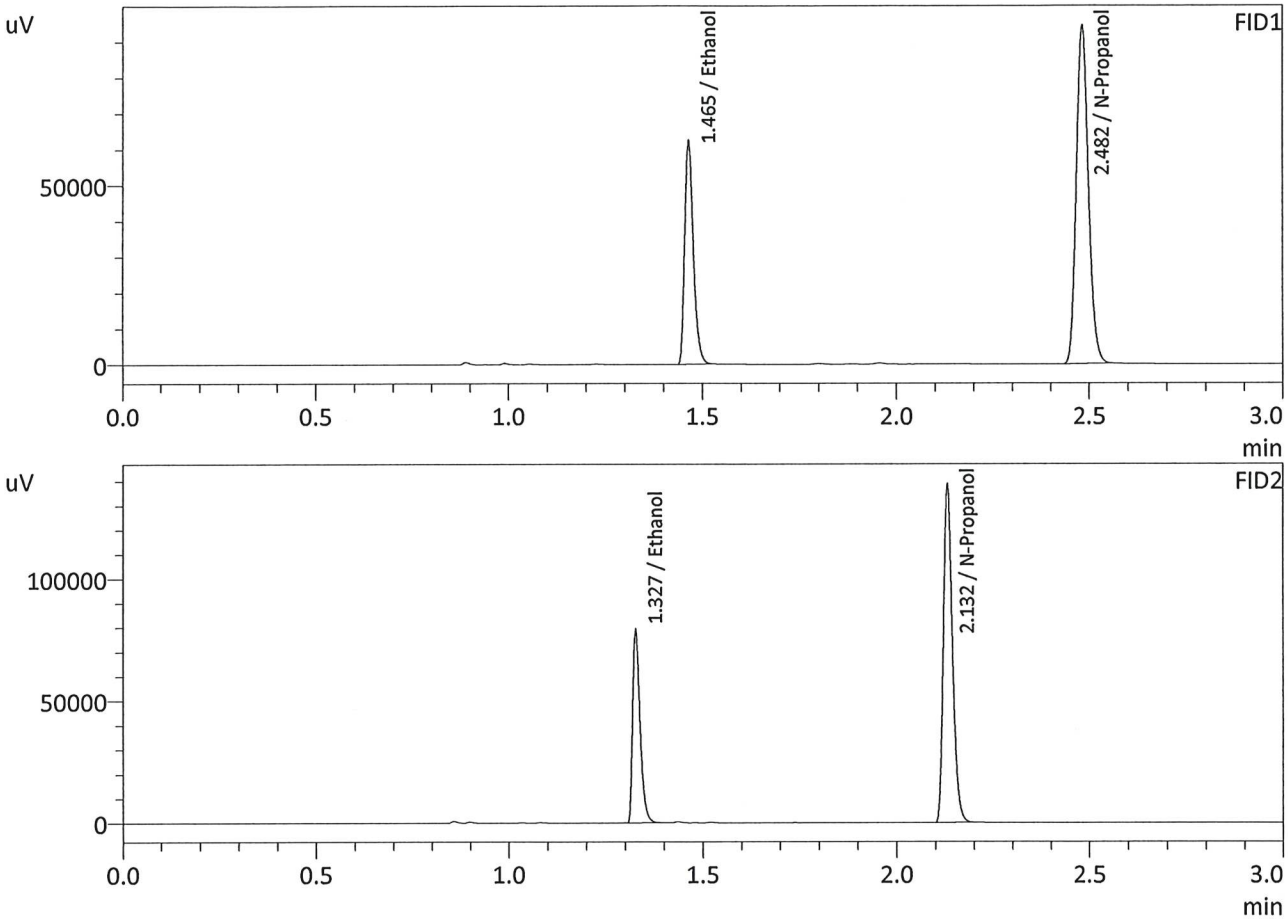
Overall Mean (g/100cc)	Low	High	5% of Mean
0.213	**0.202**	**0.224**	**0.011**

	Reported Result	Notes:
	0.213	

Calibration and control data are stored centrally.

JG

Sample Name : QC-2-1-A
Laboratory : Meridian
Injection Date : 1/20/2023 5:24:02 PM
Vial # : 25
Method Filename : C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

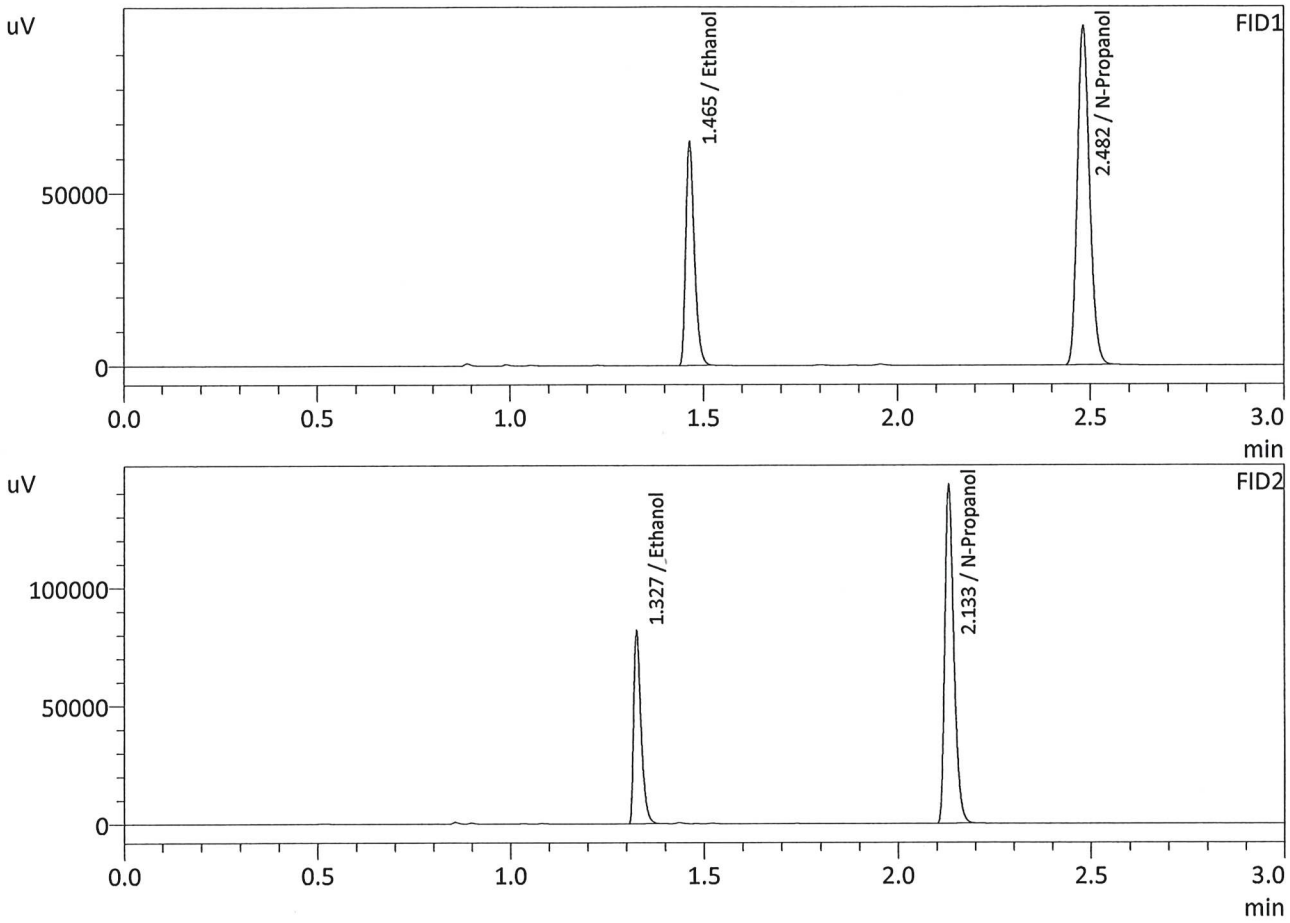
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2136	96211	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	211321	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2139	104521	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	229634	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

Sample Name	: QC-2-1-B
Laboratory	: Meridian
Injection Date	: 1/20/2023 5:32:03 PM
Vial #	: 26
Method Filename	: C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS	: C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2137	99491	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	218421	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2137	107862	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	237213	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

VOLATILES BAC CASEFILE WORKSHEET

Laboratory No.: QC 1-2 **Item #** **Analysis Date(s): 1/20/23**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0819	0.0818	0.0001	0.0818	0.0013	0.0824
(g/100cc)	0.0831	0.0831	0.0000	0.0831		

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

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

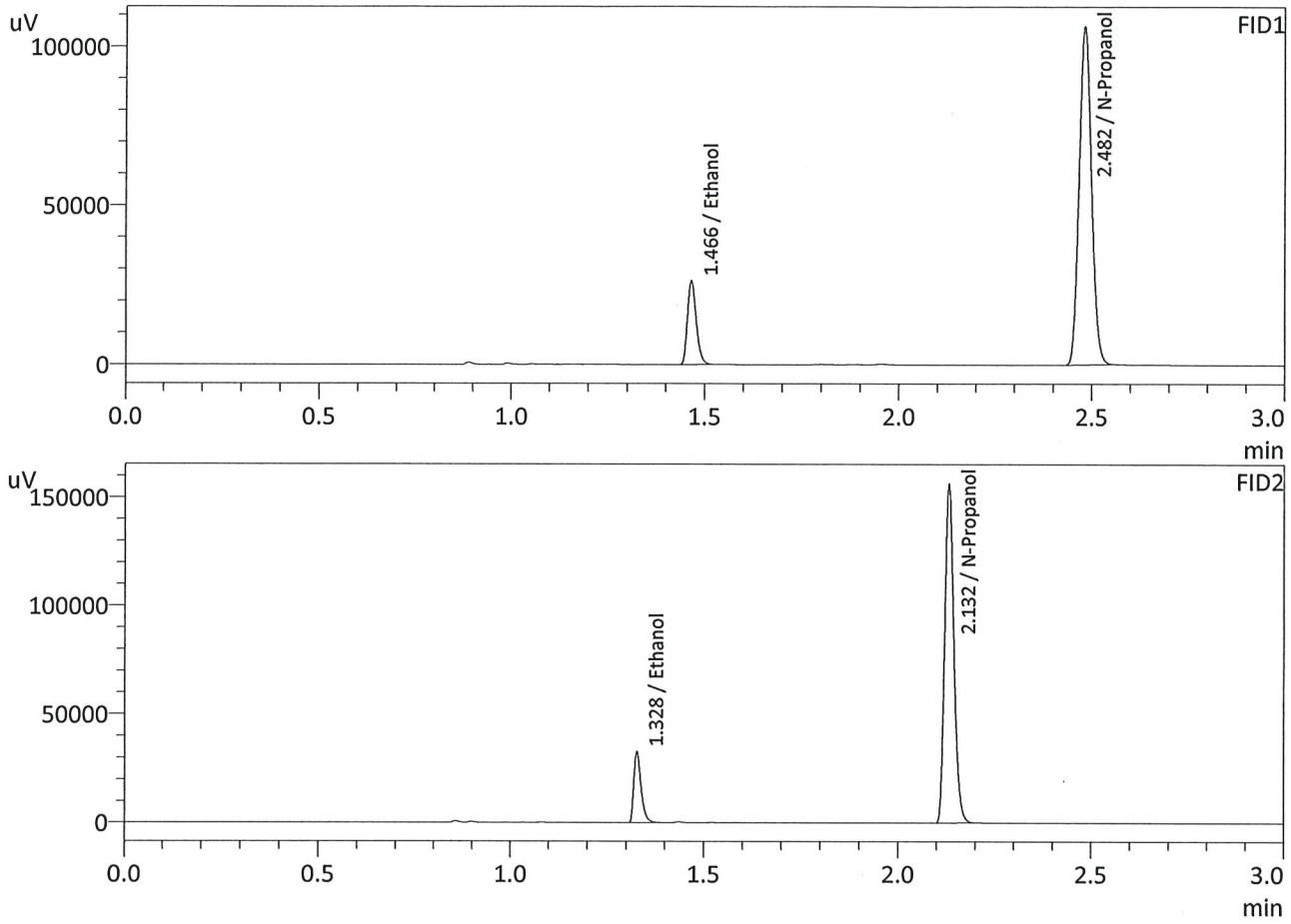
Overall Mean (g/100cc)	Low	High	5% of Mean
0.082	0.077	0.087	0.005

	Reported Result	Notes:
	0.082	

Calibration and control data are stored centrally.

JG

Sample Name : QC1-2-A
Laboratory : Meridian
Injection Date : 1/20/2023 8:09:12 PM
Vial # : 45
Method Filename : C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

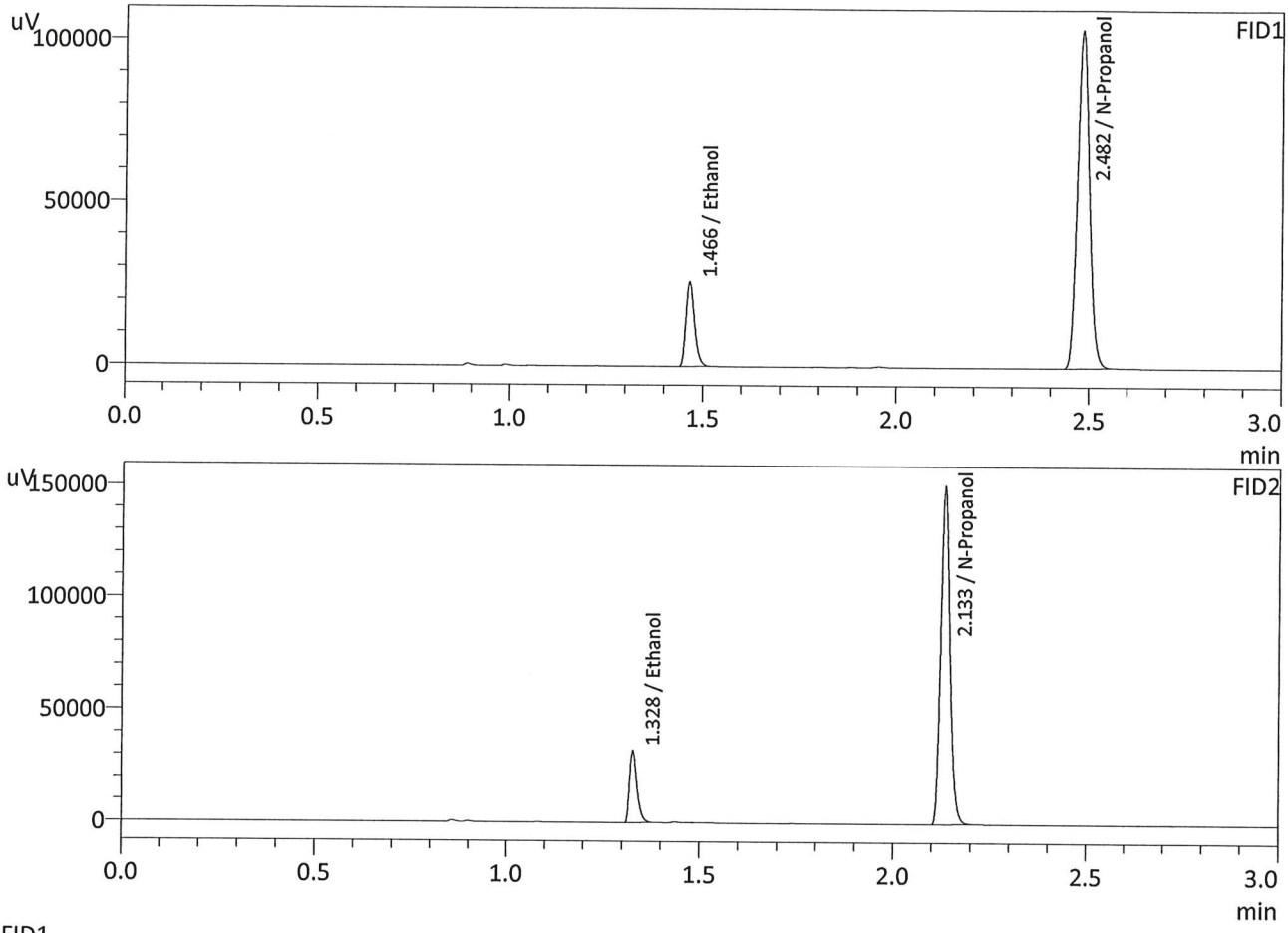
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0819	40548	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	237501	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0818	43861	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	258357	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

Sample Name : QC1-2-B
Laboratory : Meridian
Injection Date : 1/20/2023 8:16:15 PM
Vial # : 46
Method Filename : C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0831	39847	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	229738	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0831	43089	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	249811	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JL

VOLATILES BAC CASEFILE WORKSHEET

Laboratory No.: QC 2-2 **Item #** **Analysis Date(s): 1/20/23**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.2119	0.2119	0.0000	0.2119	0.0009	0.2123
(g/100cc)	0.2127	0.2129	0.0002	0.2128		

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

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

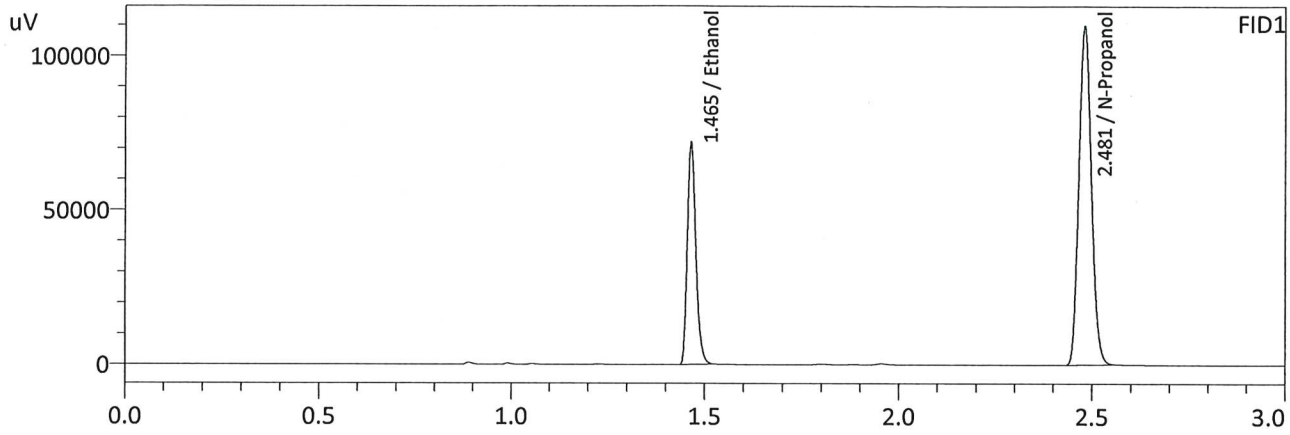
Overall Mean (g/100cc)	Low	High	5% of Mean
0.212	0.201	0.223	0.011

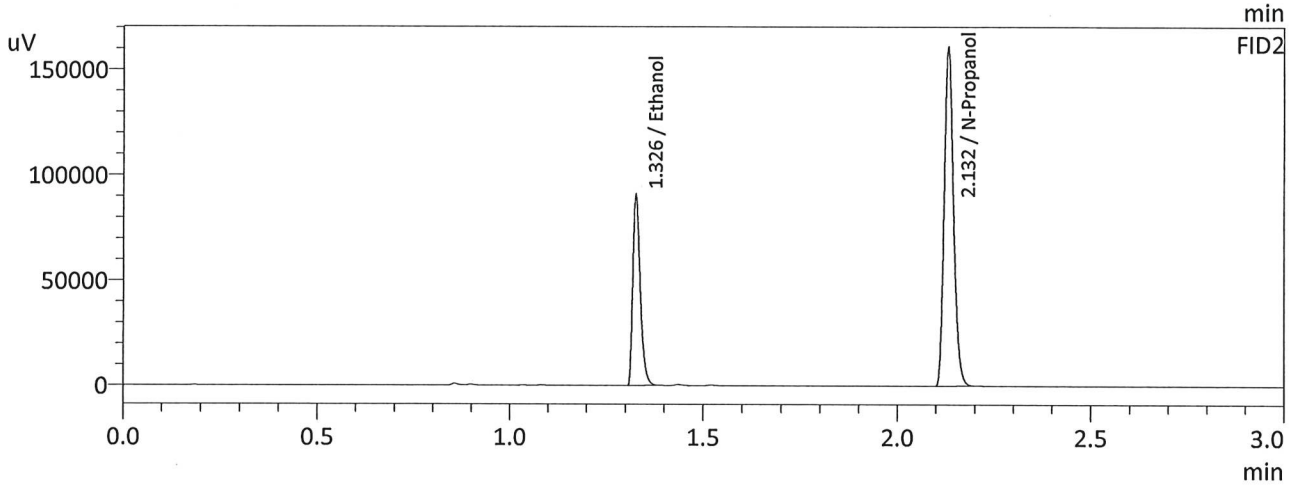
	Reported Result	Notes:
	0.212	

Calibration and control data are stored centrally.

JG

Sample Name : QC2-2-A
Laboratory : Meridian
Injection Date : 1/20/2023 8:24:36 PM
Vial # : 47
Method Filename : C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409





FID1

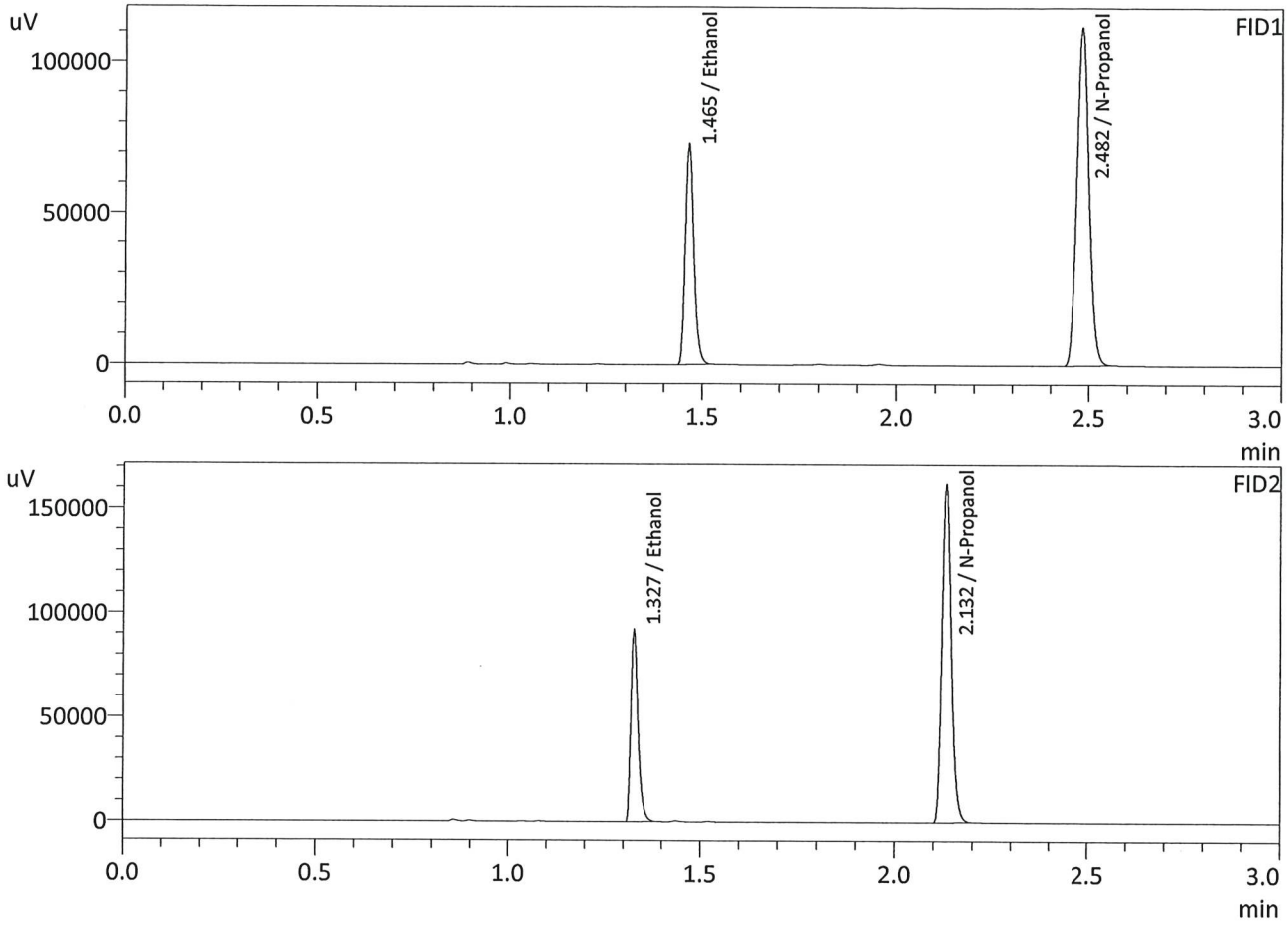
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2119	110558	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	244761	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2119	120014	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	266107	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

Sample Name : QC2-2-B
Laboratory : Meridian
Injection Date : 1/20/2023 8:33:15 PM
Vial # : 48
Method Filename : C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

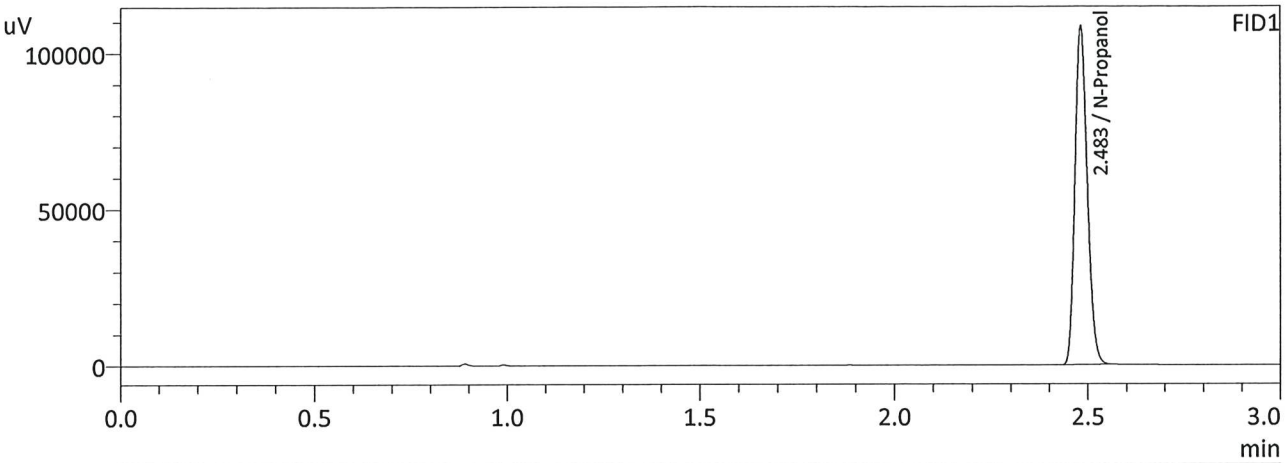
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2127	111990	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	246959	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

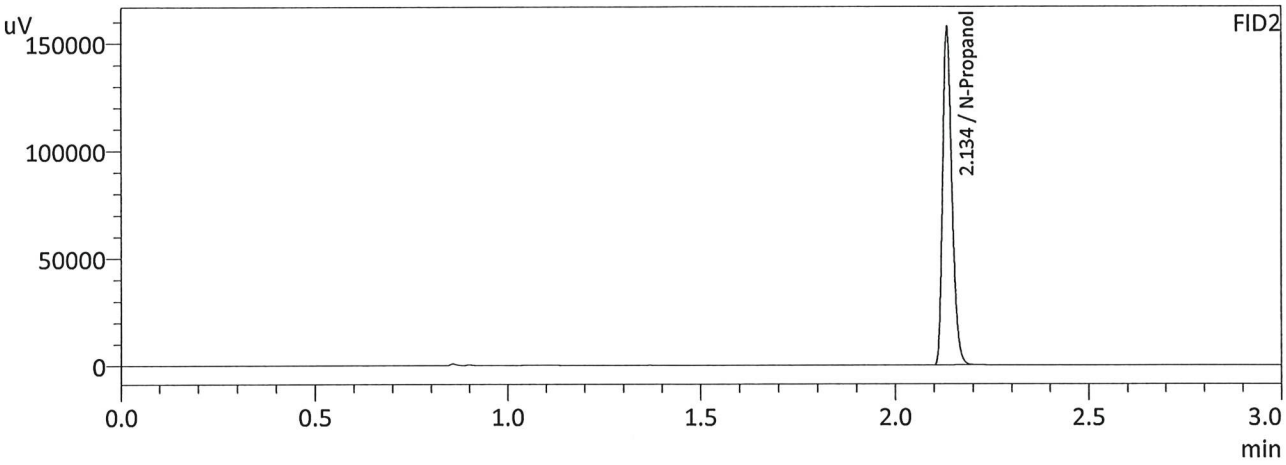
FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2129	121449	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	268112	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JL

Sample Name : INT STD BLK
Laboratory : Meridian
Injection Date : 1/20/2023 8:40:42 PM
Vial # : 49
Method Filename : C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.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	239889	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	260696	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

Meridian Blood Alcohol Analysis Batch Table

Shimadzu GC-2030 Serial #C12255750548
Shimadzu HS-20 Serial #C12595800409
Lab Solutions Software Ver. 5.99

Vial#	Sample Name	Method File
1	INT STD BLK 1	C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
2	ED VOLATILES FN 0604	C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
3	QC-1-1-A	C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
4	QC-1-1-B	C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
5	0.08 QA-A	C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
6	0.08 QA-B	C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
7	M2022-5403-1-A	C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
8	M2022-5403-1-B	C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
9	M2022-5413-1-A	C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
10	M2022-5413-1-B	C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
11	M2022-5414-1-A	C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
12	M2022-5414-1-B	C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
13	M2023-0001-1-A	C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
14	M2023-0001-1-B	C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
15	M2023-0002-1-A	C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
16	M2023-0002-1-B	C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
17	M2023-0003-1-A	C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
18	M2023-0003-1-B	C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
19	M2023-0025-1-A	C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
20	M2023-0025-1-B	C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
21	M2023-0026-1-A	C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
22	M2023-0026-1-B	C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
23	M2023-0027-1-A	C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
24	M2023-0027-1-B	C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
25	QC-2-1-A	C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
26	QC-2-1-B	C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
27	M2023-0028-1-A	C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
28	M2023-0028-1-B	C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
29	M2023-0029-1-A	C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
30	M2023-0029-1-B	C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
31	M2023-0037-1-A	C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
32	M2023-0037-1-B	C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
33	M2023-0053-1-A	C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
34	M2023-0053-1-B	C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
35	M2023-0097-1-A	C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
36	M2023-0097-1-B	C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
37	M2023-0098-1-A	C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
38	M2023-0098-1-B	C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
39	M2023-0127-1-A	C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
40	M2023-0127-1-B	C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
41	M2023-0132-1-A	C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
42	M2023-0132-1-B	C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
43	M2023-0200-1-A	C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
44	M2023-0200-1-B	C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
45	QC1-2-A	C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
46	QC1-2-B	C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
47	QC2-2-A	C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
48	QC2-2-B	C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM
49	INT STD BLK	C:\LabSolutions\Data\230120\CALIBRATION\ALCOHOL.GCM

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