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): 12/17/21**

Calibration Date: 12/17/21

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Jul-21	1907006	0.0764	0.0688-0.0840	0.0768 g/100cc
					0.2130 g/100cc
					g/100cc
Level 2	Jul-21	1907007	0.2170	0.1953-0.2387	0.2147 g/100cc
					0.2150 g/100cc
					g/100cc

Multi-Component mixture:			**Lot #**	FN07101701	
Curve Fit:		**Column 1**	0.99976	**Column2**	0.99979

✓ JG 12/21/21

REVIEWED
By Tamara Salazar at 2:01 pm, Dec 21, 2021

Ethanol Calibration Reference Material

Calibrator level	Target Value	Acceptable Range	Column 1	Column 2	Precision	Mean
50	0.050	0.045 - 0.055	0.0511	0.0503	0.0008	0.0507
100	0.100	0.090 - 0.110	0.1019	0.1020	1E-04	0.1019
200	0.200	0.180 - 0.220	0.1951	0.1956	0.0005	0.1953
300	0.300	0.270 - 0.330	0.3007	0.3016	0.0009	0.3011
400	0.400	0.360 - 0.440			0	#DIV/0!
500	0.500	0.450 - 0.550	0.5010	0.5003	0.0007	0.5006

Aqueous Controls

Control level	Target Value	Acceptable Range	Overall Results
80	0.080	0.076 - 0.084	0.081 g/100cc

JG

Revision: 2
Issue Date: 12/23/2019
Issuing Authority: Quality Manager

12/20/21

The Quality Control sample QC1-2 failed during this run. Because of this, all associated bracketed samples are being rerun. This affects vials 27 through 58.

Sample that were not affected by this Quality Control action are included in this Worklist 5466.

12/20/21

Affected Samples were run 12/20/21 in worklist 5467

JG

Meridian Blood Alcohol Analysis Batch Table

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

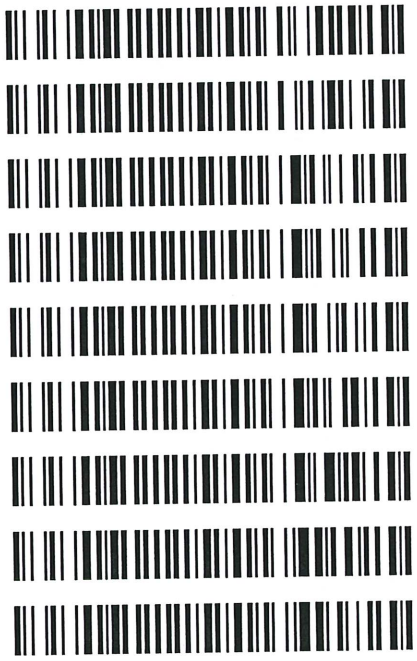
Vial#	Sample Name	Method File
1	INT STD BLK 1	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
2	ED VOLATILES FN 0710	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
3	QC-1-1-A	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
4	QC-1-1-B	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
5	0.08 QA-A	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
6	0.08 QA-B	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
7	M2021-5306-1A	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
8	M2021-5306-1B	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
9	M2021-5333-1A	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
10	M2021-5333-1B	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
11	M2021-5337-1A	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
12	M2021-5337-1B	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
13	M2021-5348-1A	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
14	M2021-5348-1B	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
15	M2021-5349-1A	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
16	M2021-5349-1B	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
17	M2021-5350-1A	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
18	M2021-5350-1B	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
19	M2021-5351-1A	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
20	M2021-5351-1B	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
21	M2021-5359-1A	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
22	M2021-5359-1B	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
23	M2021-5360-1A	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
24	M2021-5360-1B	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
25	QC-2-1-A	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
26	QC-2-1-B	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
27	M2021-5361-1A	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
28	M2021-5361-1B	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
29	M2021-5362-1A	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
30	M2021-5362-1B	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
31	M2021-5363-1A	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
32	M2021-5363-1B	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
33	M2021-5397-1A	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
34	M2021-5397-1B	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
35	M2021-5405-1A	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
36	M2021-5405-1B	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
37	M2021-5406-1A	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
38	M2021-5406-1B	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
39	M2021-5429-1A	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
40	M2021-5429-1B	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
41	M2021-5430-1A	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
42	M2021-5430-1B	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
43	M2021-5485-1A	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
44	M2021-5485-1B	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
45	M2021-5486-1A	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
46	M2021-5486-1B	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
47	QC1-2-A	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
48	QC1-2-B	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
49	M2021-5487-1A	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
50	M2021-5487-1B	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
51	M2021-5495-1A	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
52	M2021-5495-1B	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
53	M2021-5503-1A	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
54	M2021-5503-1B	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
55	M2021-5515-1A	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
56	M2021-5515-1B	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
57	P2021-3938-1A	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
58	P2021-3938-1B	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
59	QC2-2-A	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
60	QC2-2-B	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
61	INT STD BLNK	C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM

will be rerun due to control not being within specifications

JC
12/20/21

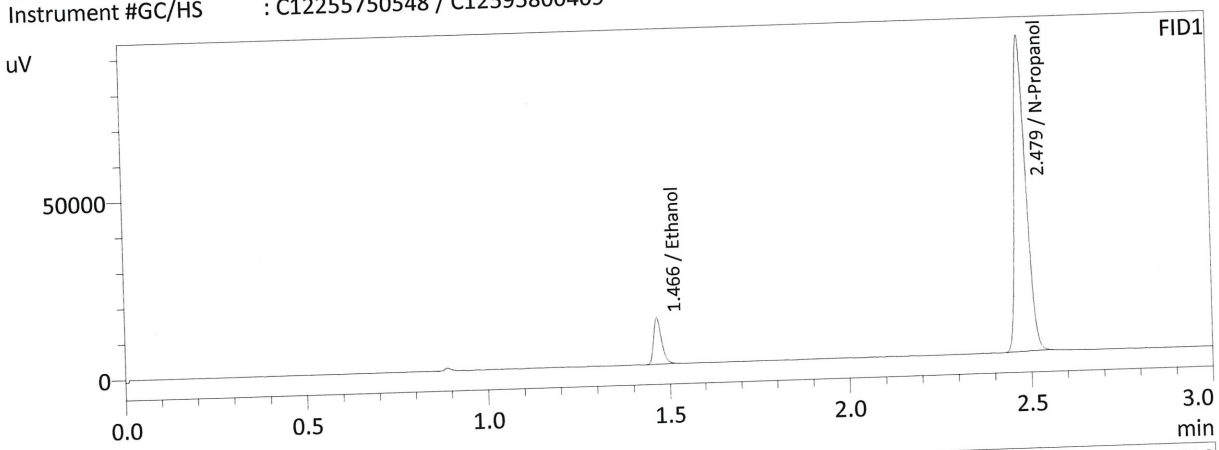
Worklist: 5466

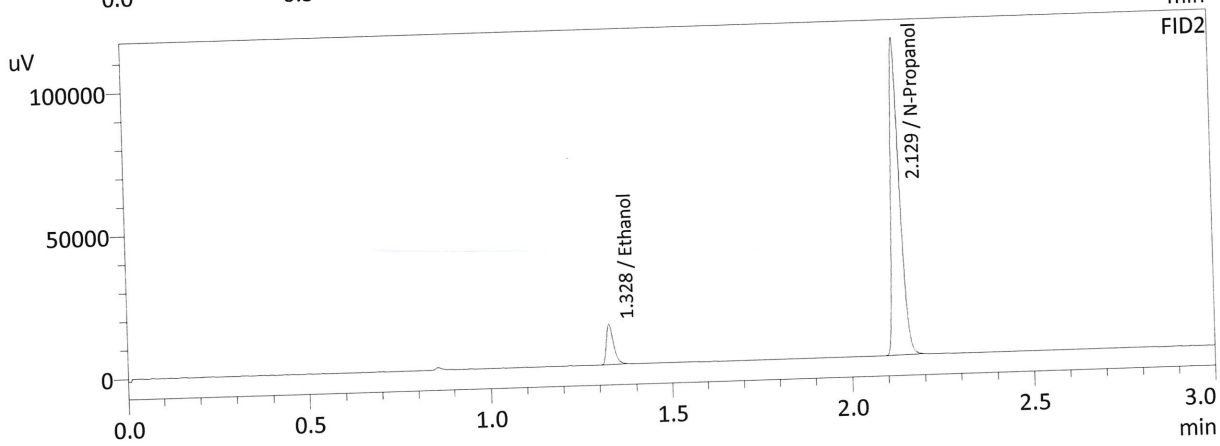
LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
M2021-5306	1	BCK	Alcohol Analysis
M2021-5333	1	BCK	Alcohol Analysis
M2021-5337	1	BCK	Alcohol Analysis
M2021-5348	1	BCK	Alcohol Analysis
M2021-5349	1	BCK	Alcohol Analysis
M2021-5350	1	BCK	Alcohol Analysis
M2021-5351	1	BCK	Alcohol Analysis
M2021-5359	1	BCK	Alcohol Analysis
M2021-5360	1	BCK	Alcohol Analysis



JL

Sample Name : 0.050
Laboratory : Meridian
Injection Date : 12/17/2021 10:49:59 AM
Vial # : 1
Method Filename : C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409





FID1

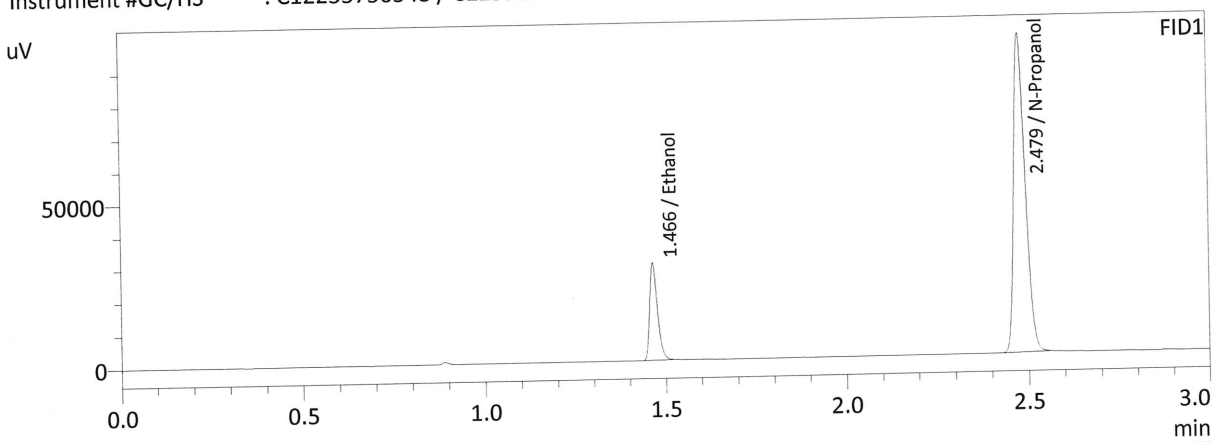
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0511	20049	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	197363	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

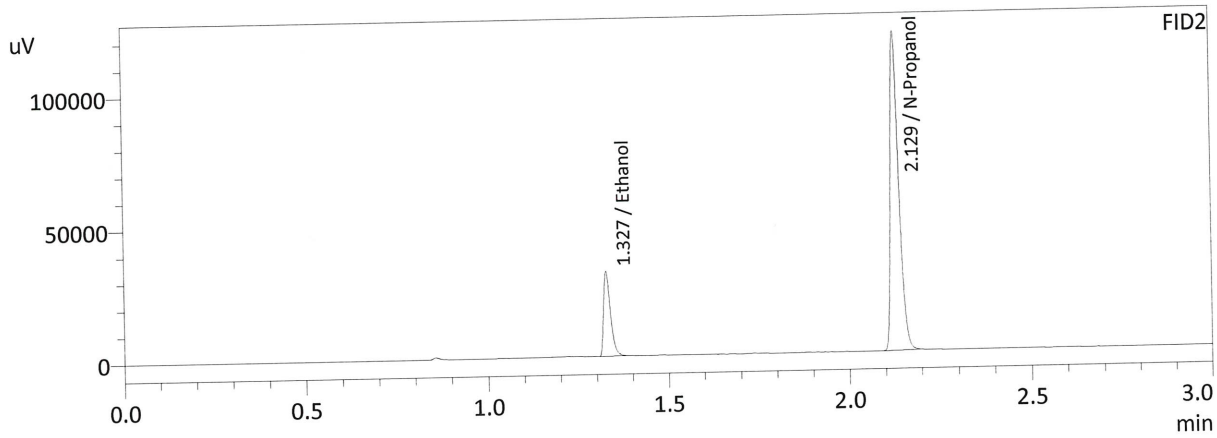
FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0503	18956	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	183905	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

JC

Sample Name : 0.100
Laboratory : Meridian
Injection Date : 12/17/2021 10:57:18 AM
Vial # : 2
Method Filename : C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409





FID1

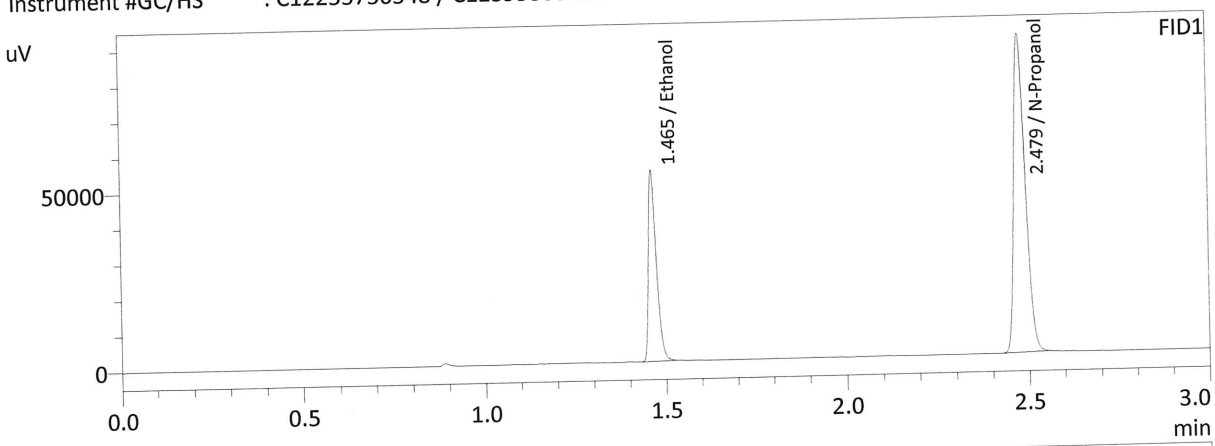
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1019	45451	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	214420	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

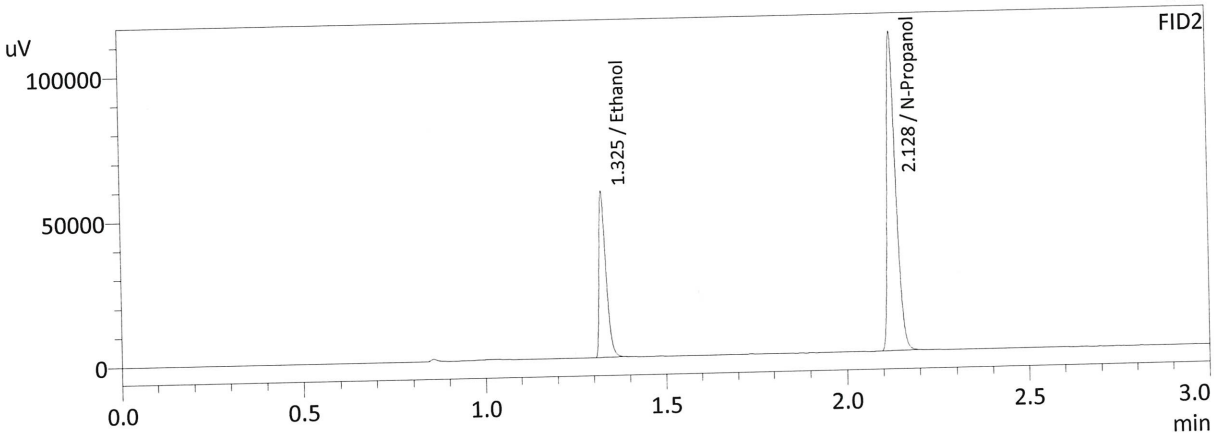
FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1020	42606	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	198981	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

JC

Sample Name : 0.200
Laboratory : Meridian
Injection Date : 12/17/2021 11:04:49 AM
Vial # : 3
Method Filename : C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409





FID1

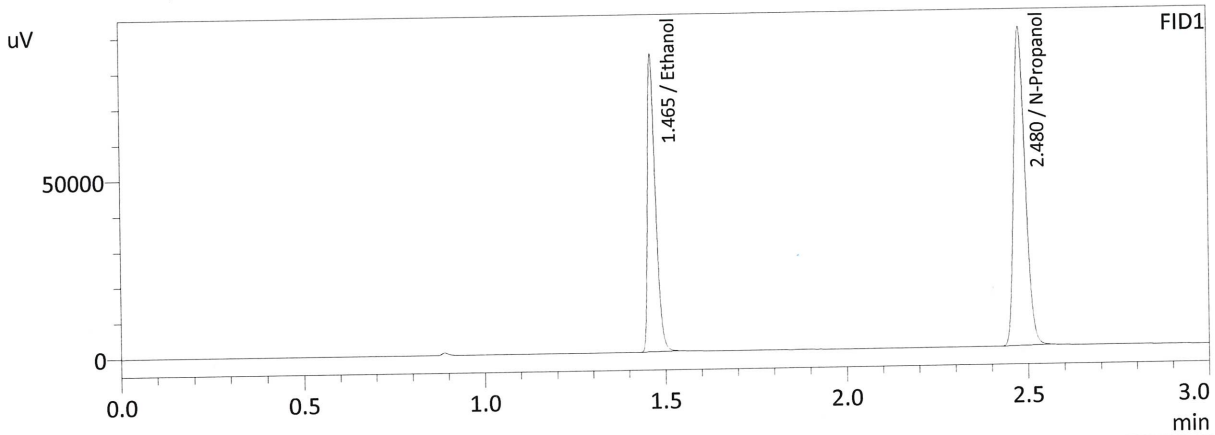
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1951	81616	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	196925	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

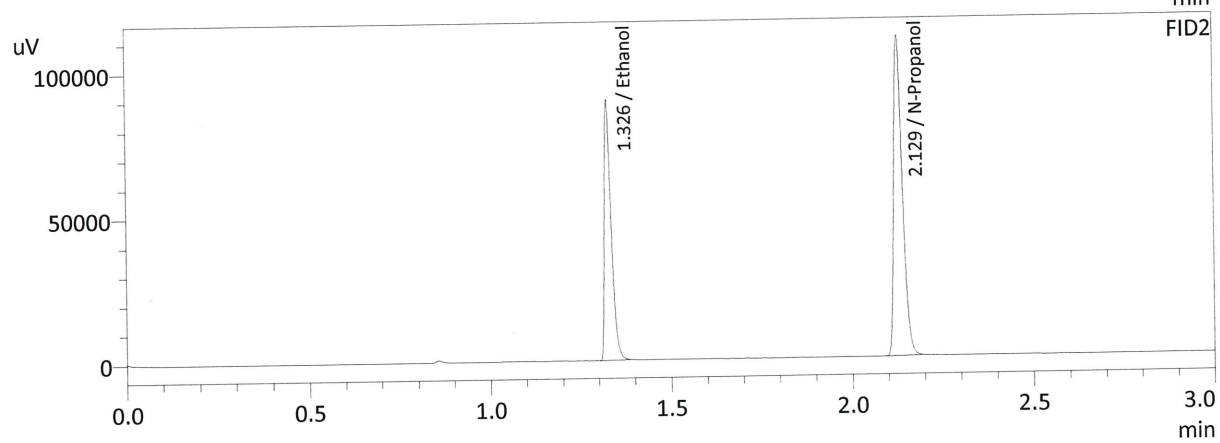
FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1956	75916	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	182760	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

JC

Sample Name : 0.300
Laboratory : Meridian
Injection Date : 12/17/2021 11:13:21 AM
Vial # : 4
Method Filename : C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409





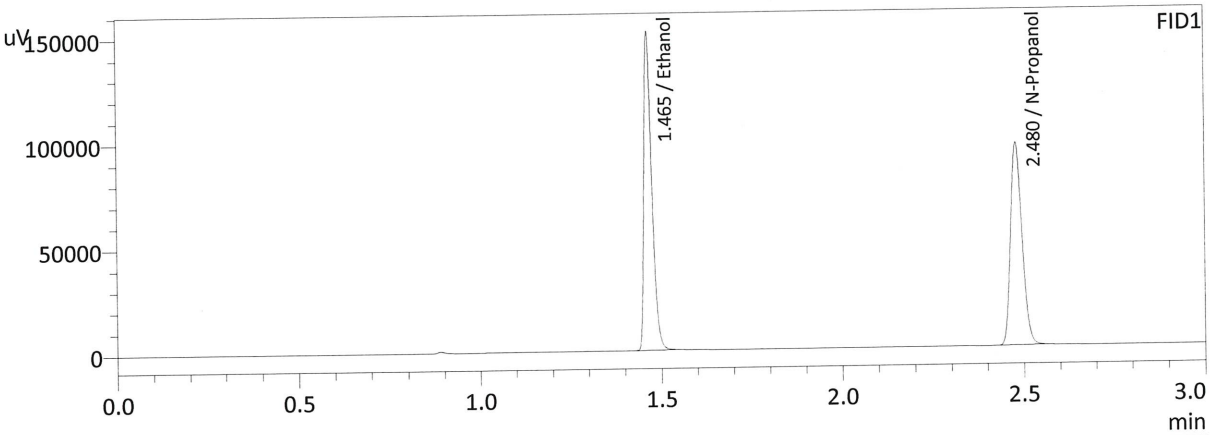
FID1

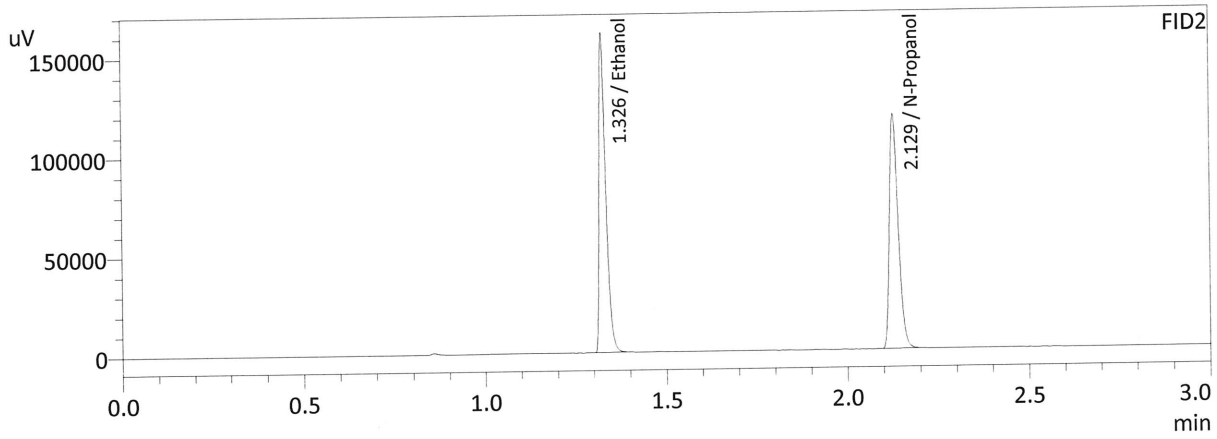
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.3007	127205	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	197509	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.3016	117770	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	183042	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

Sample Name : 0.500
Laboratory : Meridian
Injection Date : 12/17/2021 11:22:13 AM
Vial # : 5
Method Filename : C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409





FID1

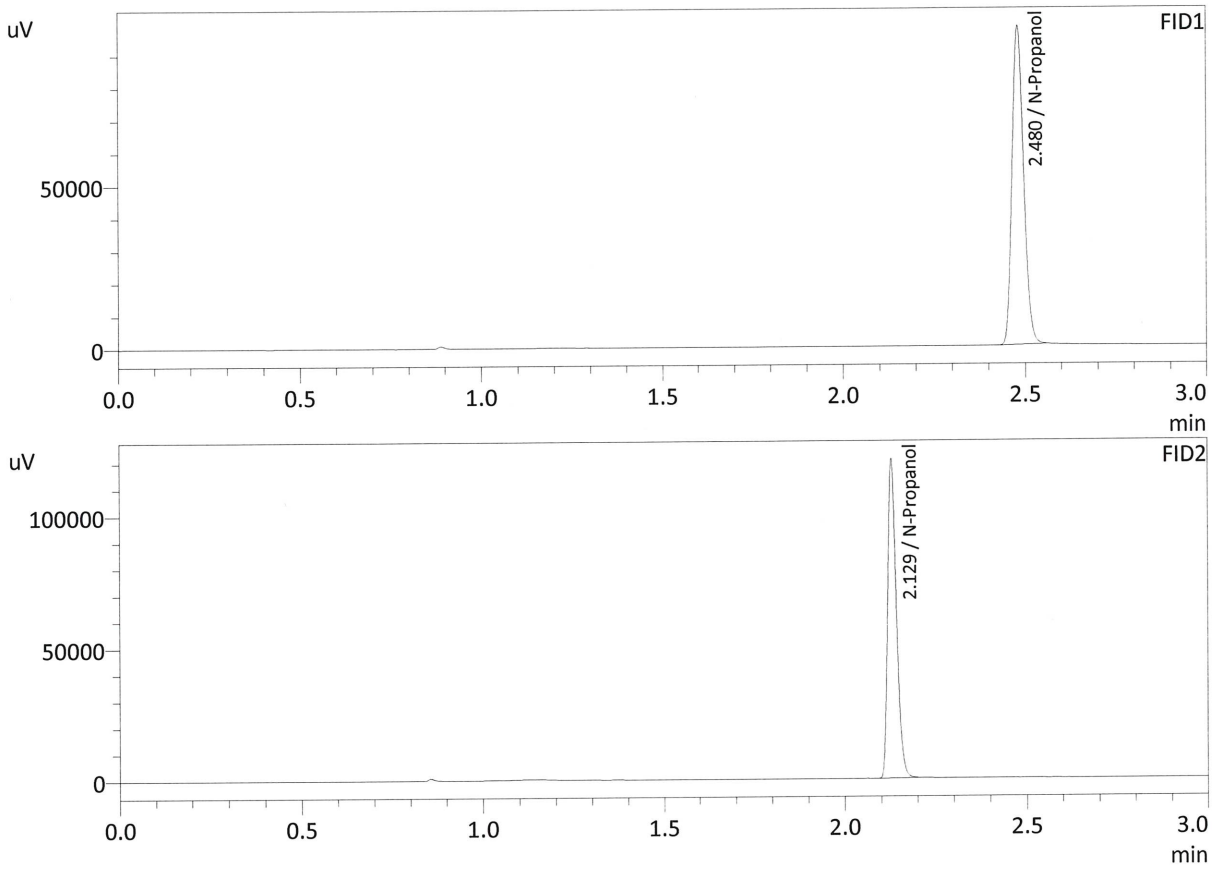
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.5010	229076	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	212223	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.5003	210063	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	196187	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

JL

Sample Name : INT STD BLNK
Laboratory : Meridian
Injection Date : 12/17/2021 11:29:37 AM
Vial # : 6
Method Filename : C:\LabSolutions\Data\211217\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	215123	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	199985	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

JC

Meridian Blood Alcohol Analysis Batch Table

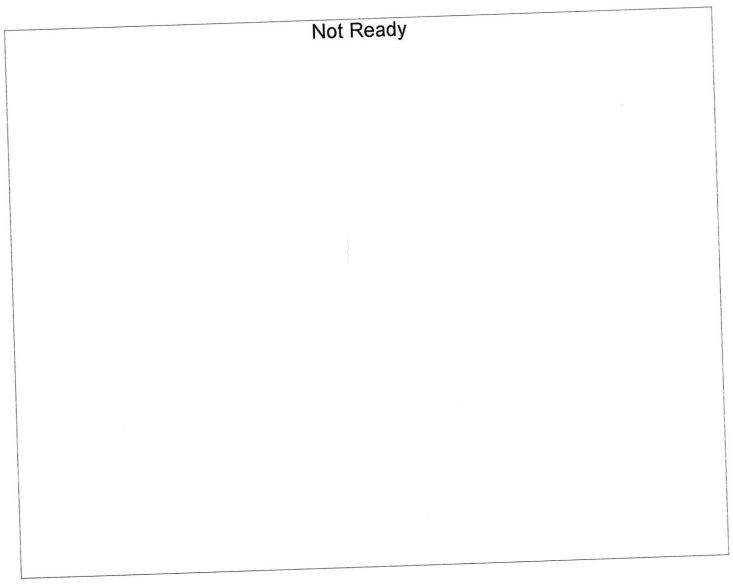
Shimadzu GC-2030 Serial #C12255750548
Shimadzu HS-20 Serial #C12595800409
Lab Solutions Software Ver. 5.99

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 BLNK	0:Unknown	0	ALCOHOL.GCM

Calibration Table

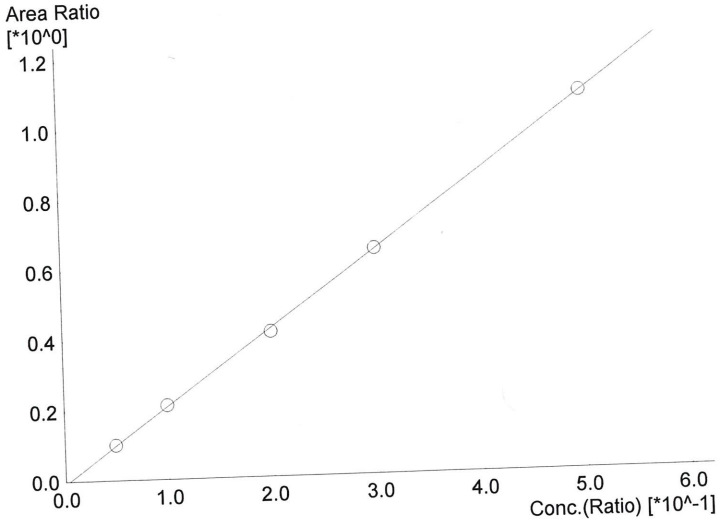
Laboratory : MERIDIAN
Instrument Name : GC-HS
Instrument Serial # : C12595800409 / C12255750548

<<Data File>> :C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
Method File :C:\LabSolutions\Data\211217\CALIBRATION\CALCURVE_TEMPLATE.gcb
Batch File :12/17/2021 11:22:13 AM
Date Acquired :12/17/2021 11:16:29 AM
Date Created :12/17/2021 11:25:15 AM
Date Modified :12/17/2021 11:25:15 AM



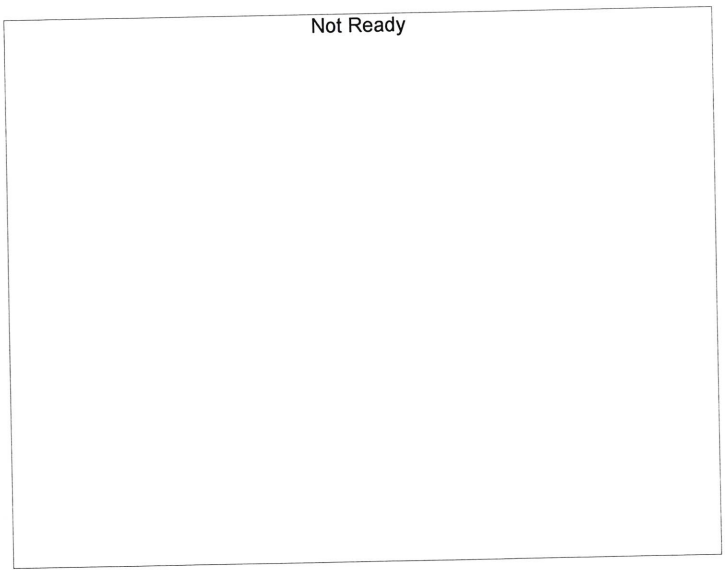
Name : Methanol
Detector Name: FID1
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.



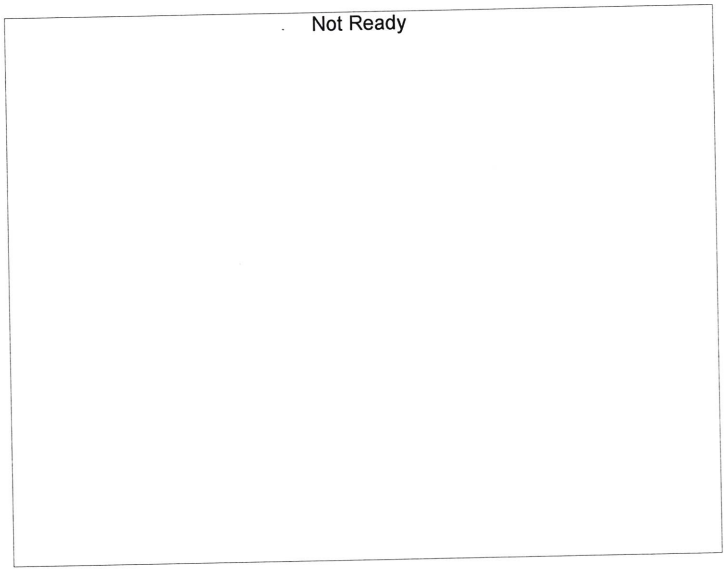
Name : Ethanol
Detector Name: FID1
Function : f(x)=2.17383*x-0.00968621
R^2 value= 0.9997600
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
1	0.050	20049	0.0511
2	0.100	45451	0.1019
3	0.200	81616	0.1951
4	0.300	127205	0.3007
5	0.500	229076	0.5010



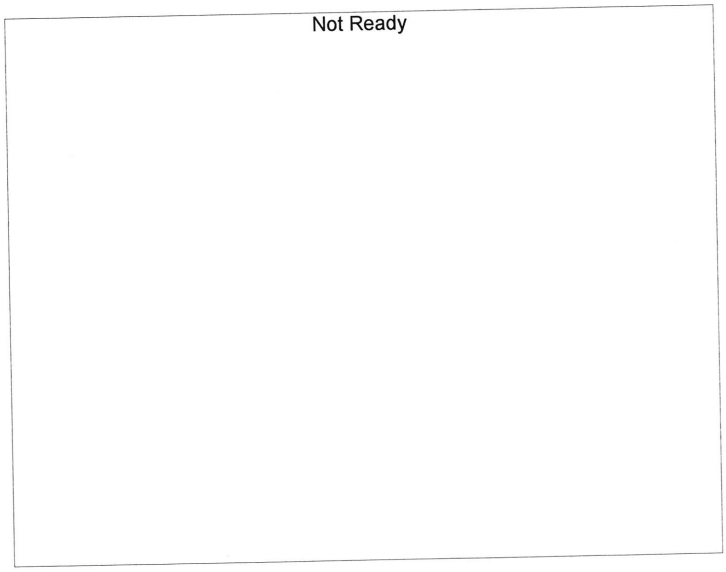
Name : Isopropyl Alcohol
Detector Name: FID1
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.



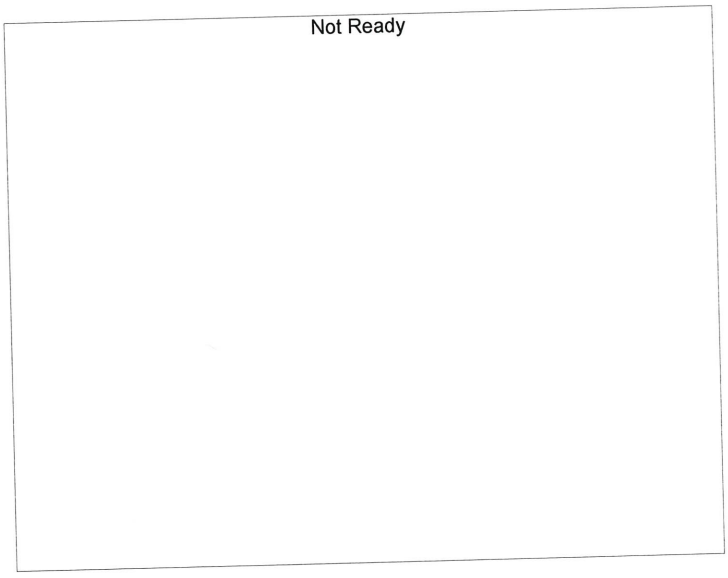
Name : Acetone
Detector Name: FID1
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.



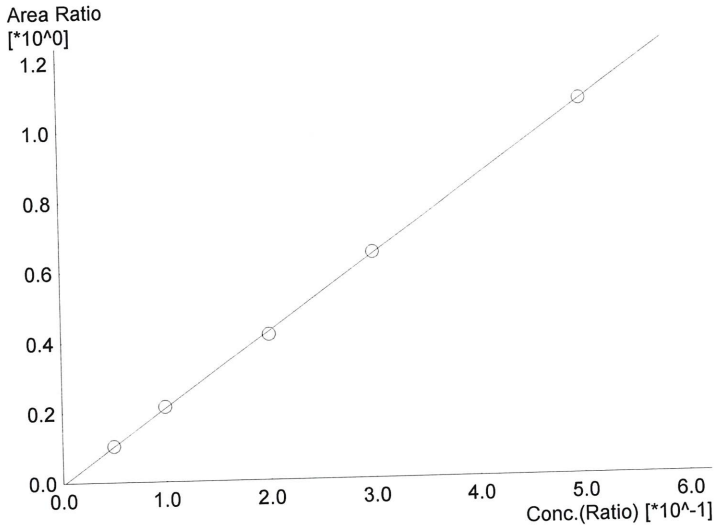
Name : Fluor. Hydrocarbon(s)
Detector Name: FID1
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.



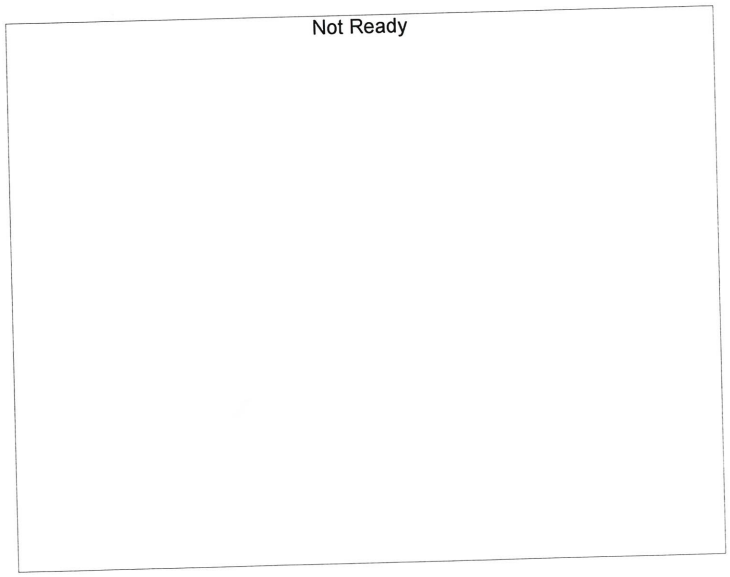
Name : Methanol
Detector Name: FID2
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.



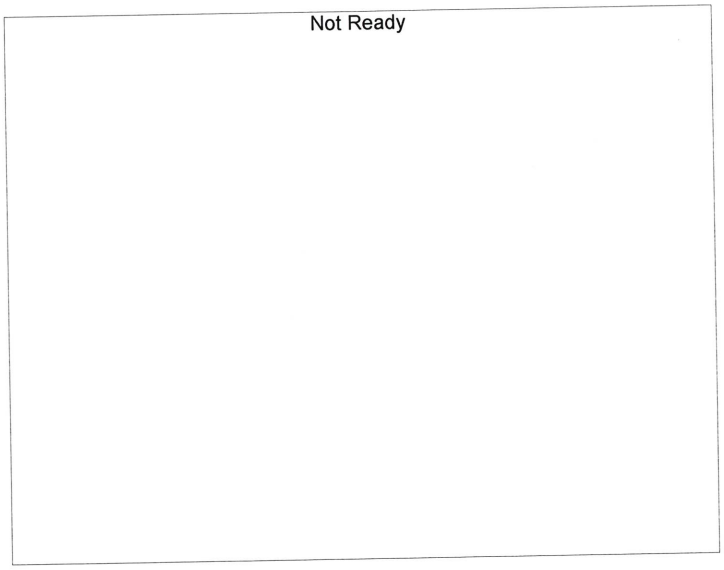
Name : Ethanol
Detector Name: FID2
Function : f(x)=2.15066*x-0.00530731
R^2 value= 0.9997945
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
1	0.050	18956	0.0503
2	0.100	42606	0.1020
3	0.200	75916	0.1956
4	0.300	117770	0.3016
5	0.500	210063	0.5003



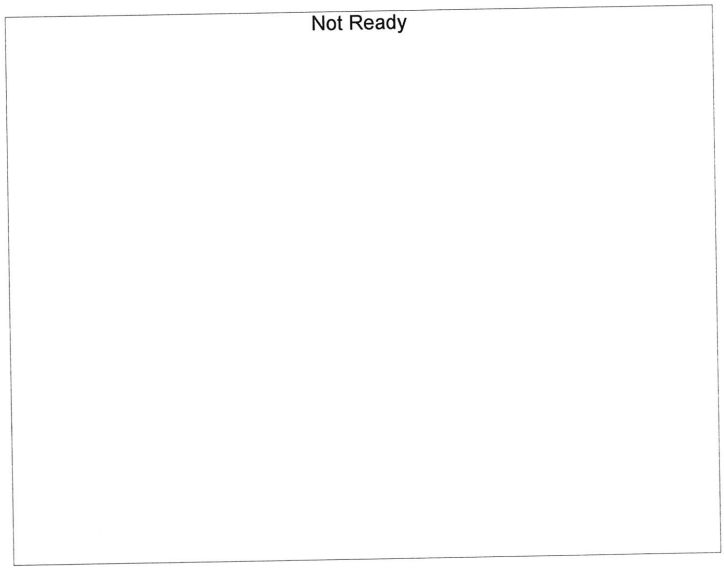
Name : Acetone
Detector Name: FID2
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.



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

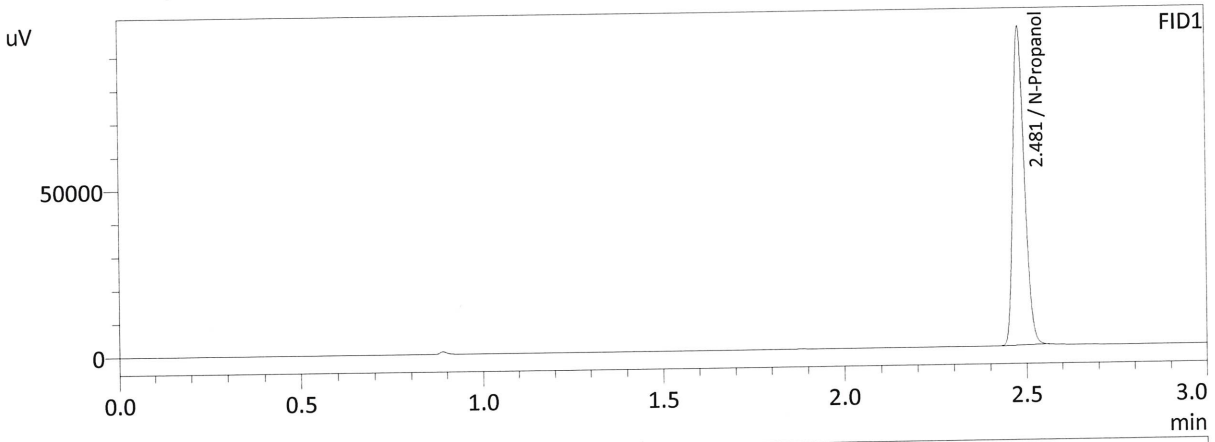
#	Conc.	Area	Std. Conc.

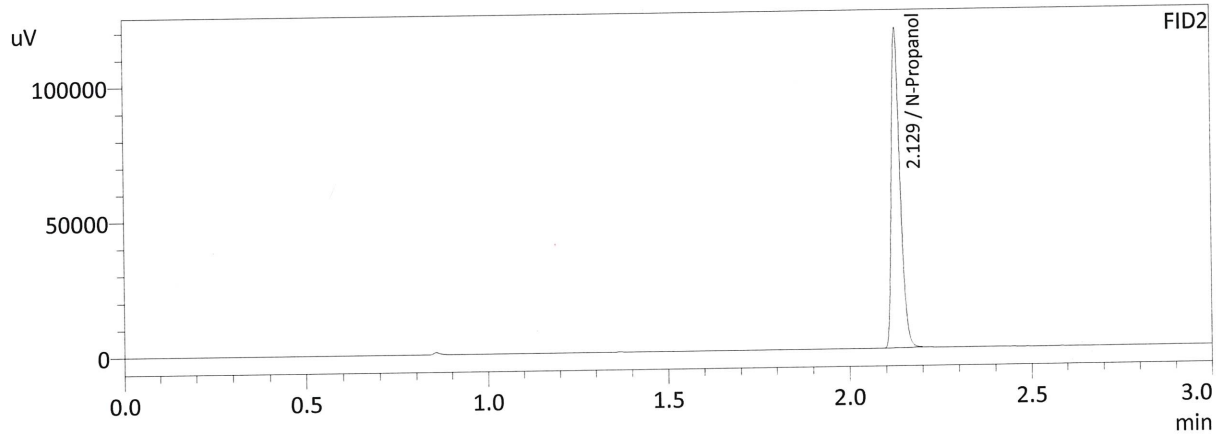


Name : Fluor. Hydrocarbon(s)
Detector Name: FID2
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.

Sample Name : INT STD BLK 1
Laboratory : Meridian
Injection Date : 12/17/2021 4:04:19 PM
Vial # : 1
Method Filename : C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409





FID1

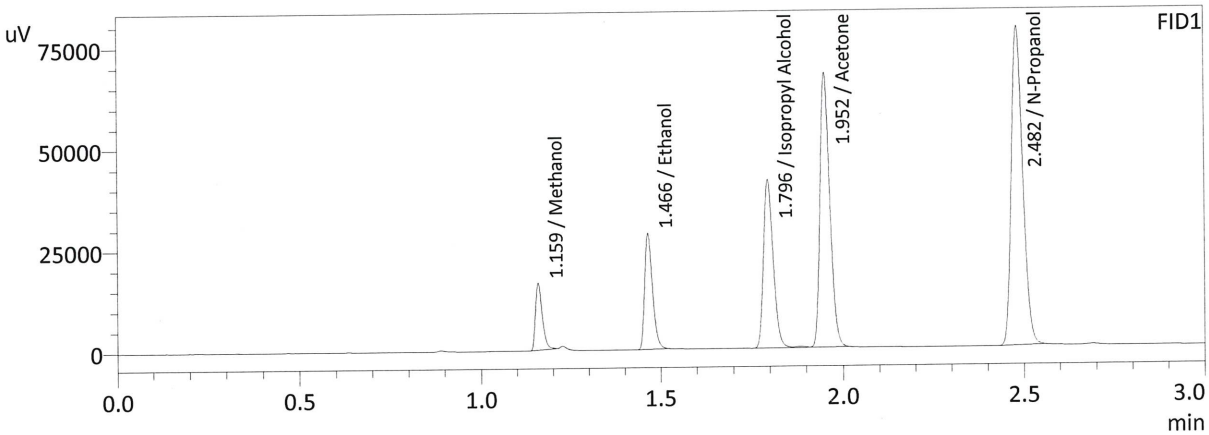
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	211344	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

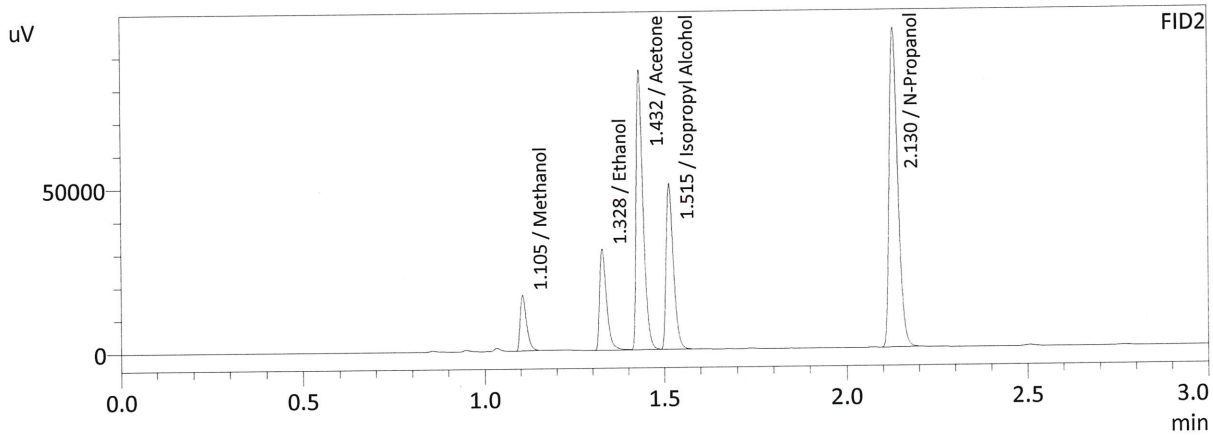
FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	196329	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

JC

Sample Name : MIXED VOLATILES FN 07101701
Laboratory : Meridian
Injection Date : 12/17/2021 4:11:39 PM
Vial # : 2
Method Filename : C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409





FID1

Name	Conc.	Area	Unit
Methanol	0.0000	21950	g/100cc
Ethanol	0.1200	43661	g/100cc
Isopropyl Alcohol	0.0000	76790	g/100cc
Acetone	0.0000	125182	g/100cc
N-Propanol	0.0000	173805	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	0.0000	21158	g/100cc
Ethanol	0.1221	41461	g/100cc
Acetone	0.0000	114633	g/100cc
Isopropyl Alcohol	0.0000	70734	g/100cc
N-Propanol	0.0000	161134	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

JC

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 0.080 QA **Analysis Date(s): 12/17/21**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results (g/100cc)	0.0817	0.0815	0.0002	0.0816	0.0001	0.0815
	0.0817	0.0814	0.0003	0.0815		

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

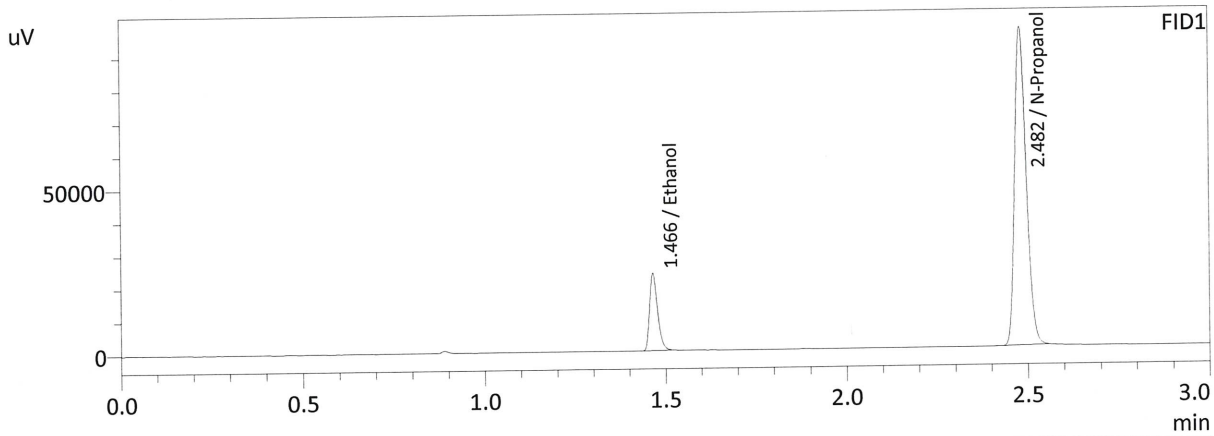
Reporting of Results **Uncertainty of Measurement (UM%): 5.00%**

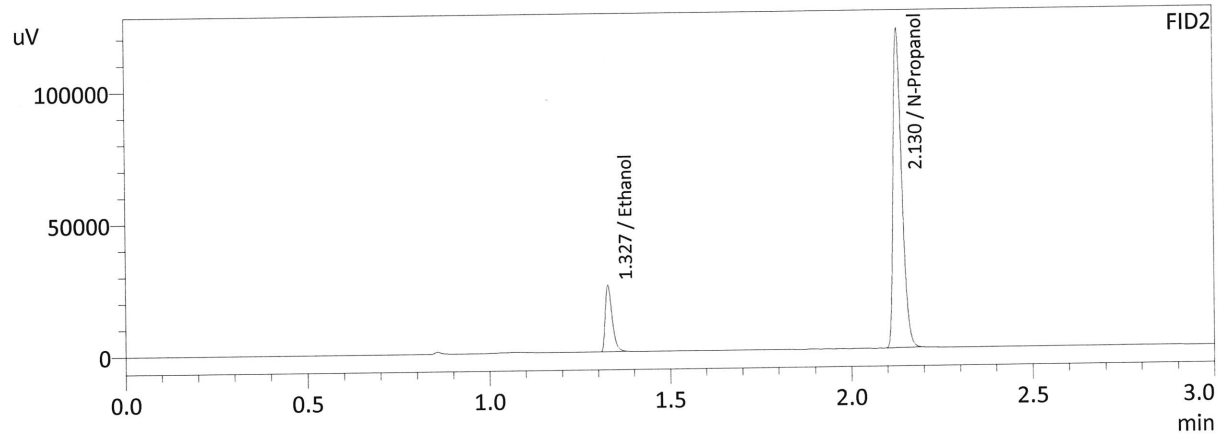
Overall Mean (g/100cc)	Low	High	5% of Mean
0.081	0.076	0.086	0.005

	Reported Result	
	0.081	

Calibration and control data are stored centrally.

Sample Name : 0.08 QA-A
Laboratory : Meridian
Injection Date : 12/17/2021 4:35:20 PM
Vial # : 5
Method Filename : C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409





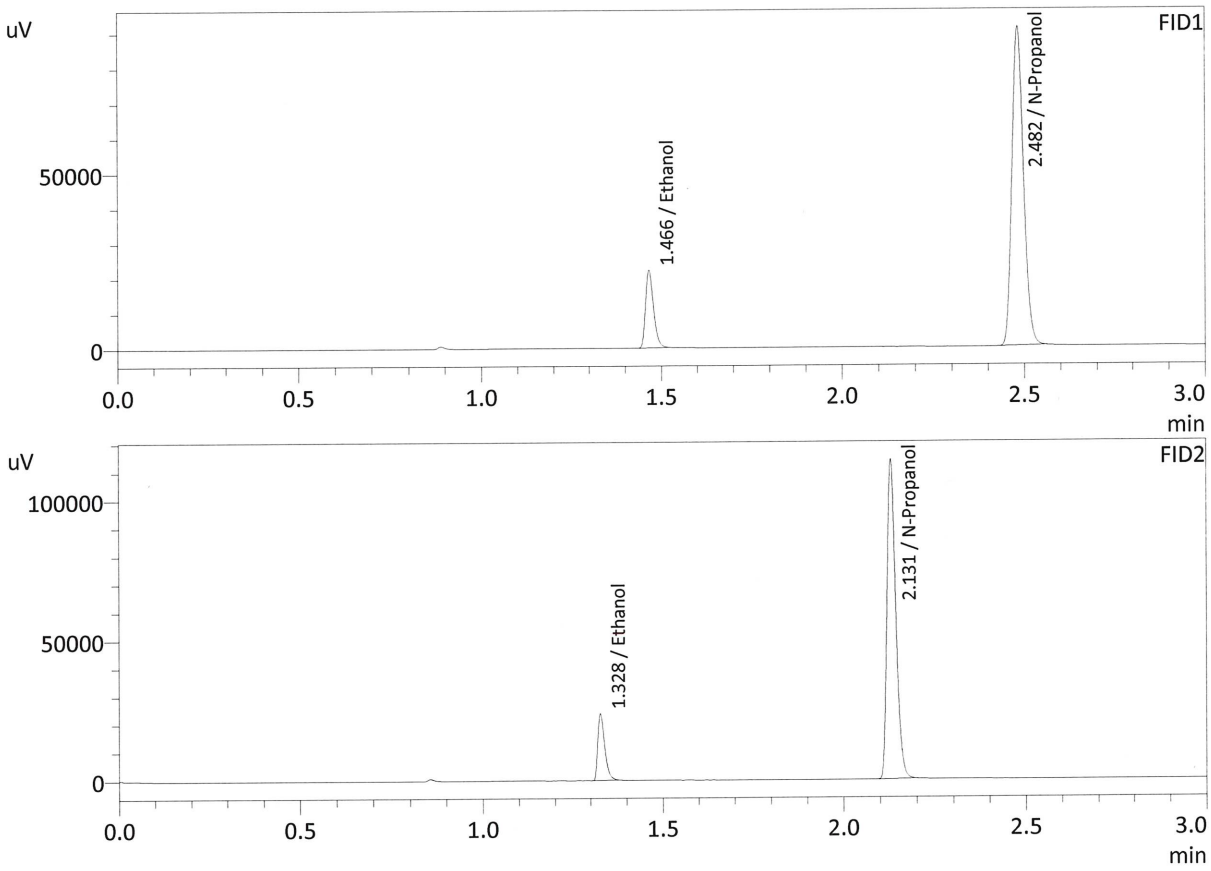
FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0817	35962	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	213948	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0815	33788	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	198534	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

Sample Name : 0.08 QA-B
Laboratory : Meridian
Injection Date : 12/17/2021 4:43:50 PM
Vial # : 6
Method Filename : C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0817	33932	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	201977	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0814	31904	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	187857	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

JL

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC 1-1 **Analysis Date(s): 12/17/21**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0784	0.0782	0.0002	0.0783	0.0030	0.0768
(g/100cc)	0.0754	0.0752	0.0002	0.0753		

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

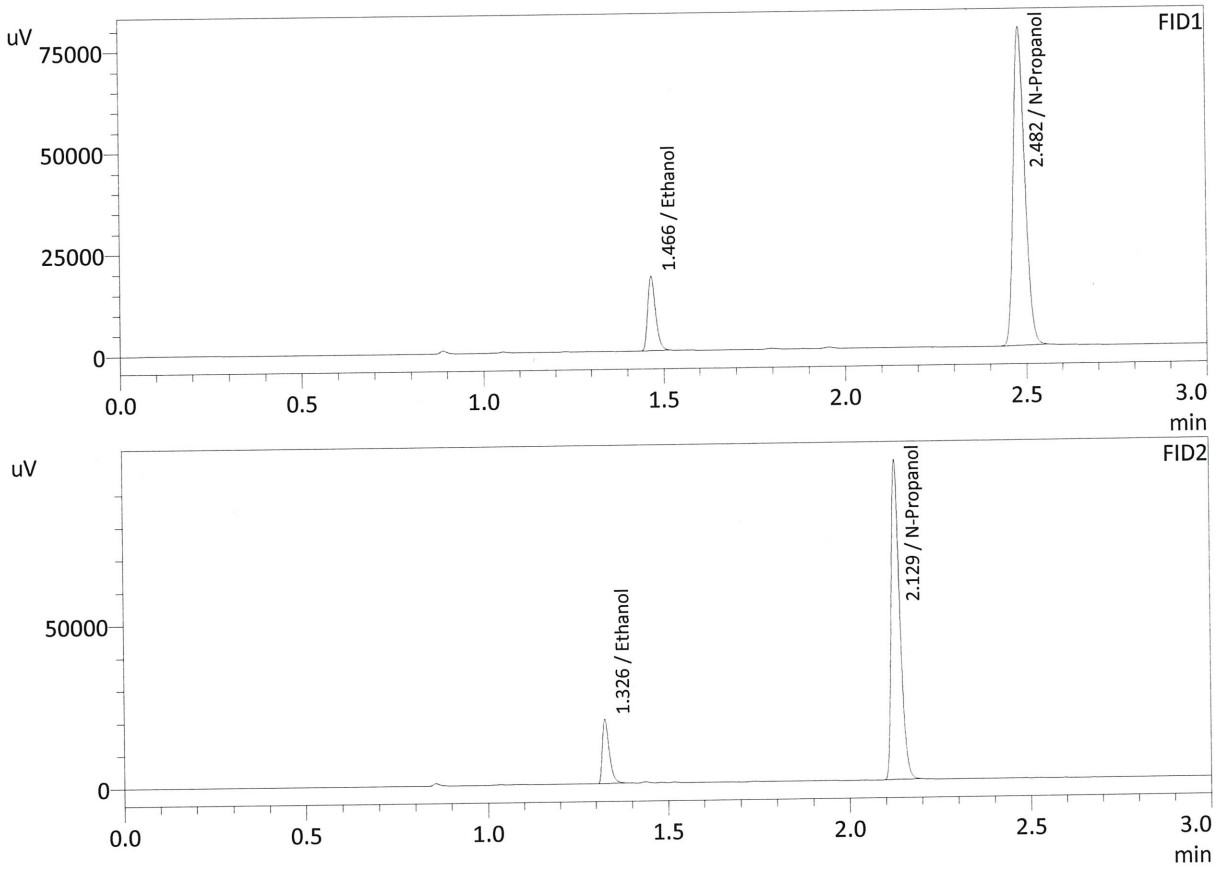
Reporting of Results **Uncertainty of Measurement (UM%): 5.00%**

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

Reported Result
0.076

Calibration and control data are stored centrally.

Sample Name : QC-1-1-A
Laboratory : Meridian
Injection Date : 12/17/2021 4:19:01 PM
Vial # : 3
Method Filename : C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



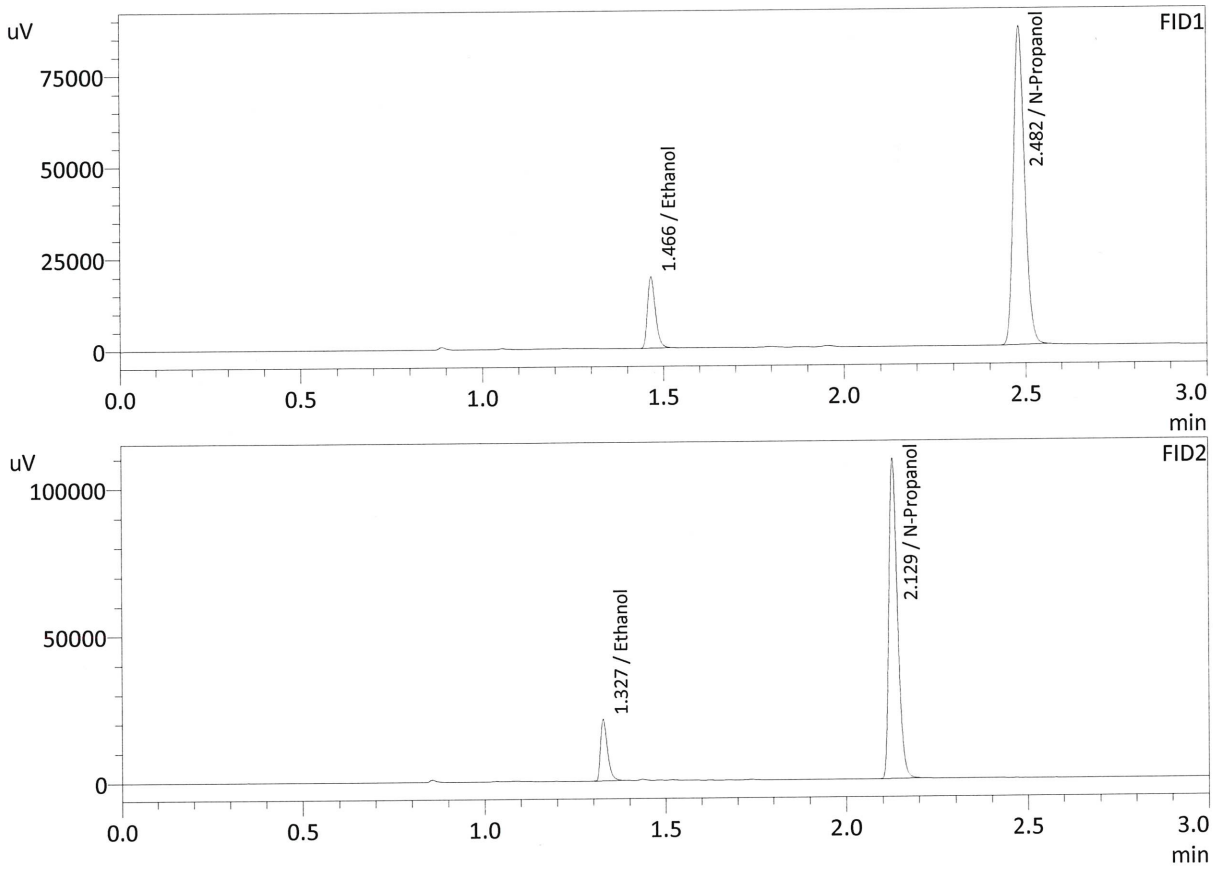
FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0784	27991	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	174004	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0782	26366	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	161797	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

Sample Name : QC-1-1-B
Laboratory : Meridian
Injection Date : 12/17/2021 4:27:53 PM
Vial # : 4
Method Filename : C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0754	29753	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	192672	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0752	28001	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	178924	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

JC

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-2 **Analysis Date(s): 12/17/21**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.3203	0.3199	0.0004	0.3201	0.2139	0.2131
(g/100cc)	0.1063	0.1062	0.0001	0.1062		

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%**

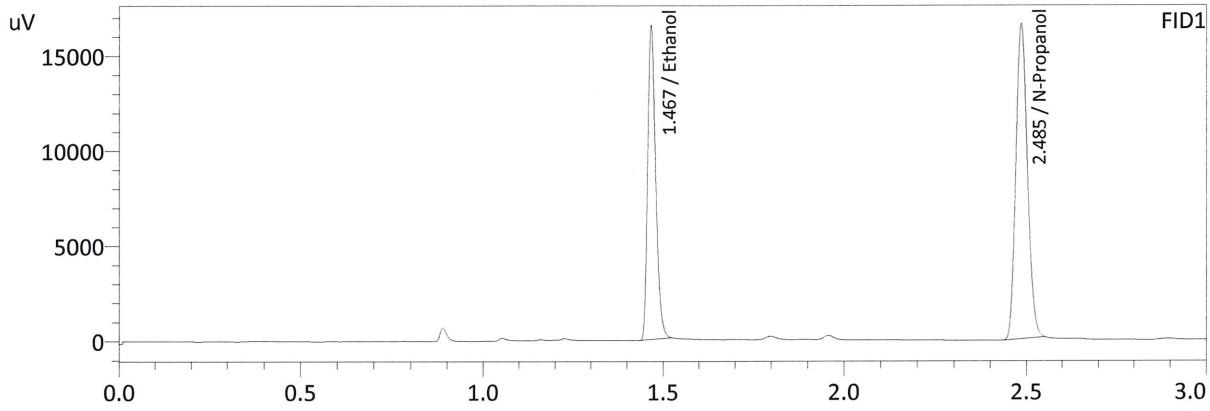
Overall Mean (g/100cc)	Low	High	5% of Mean
0.213	0.202	0.224	0.011

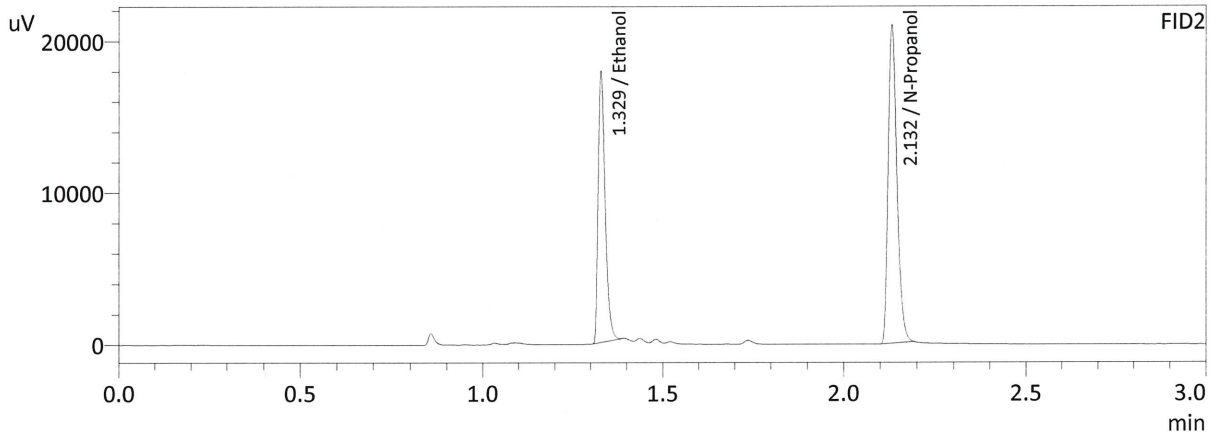
	Reported Result	
	0.213	

Calibration and control data are stored centrally.

JC

Sample Name : QC1-2-A
Laboratory : Meridian
Injection Date : 12/17/2021 10:11:52 PM
Vial # : 47
Method Filename : C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409





FID1

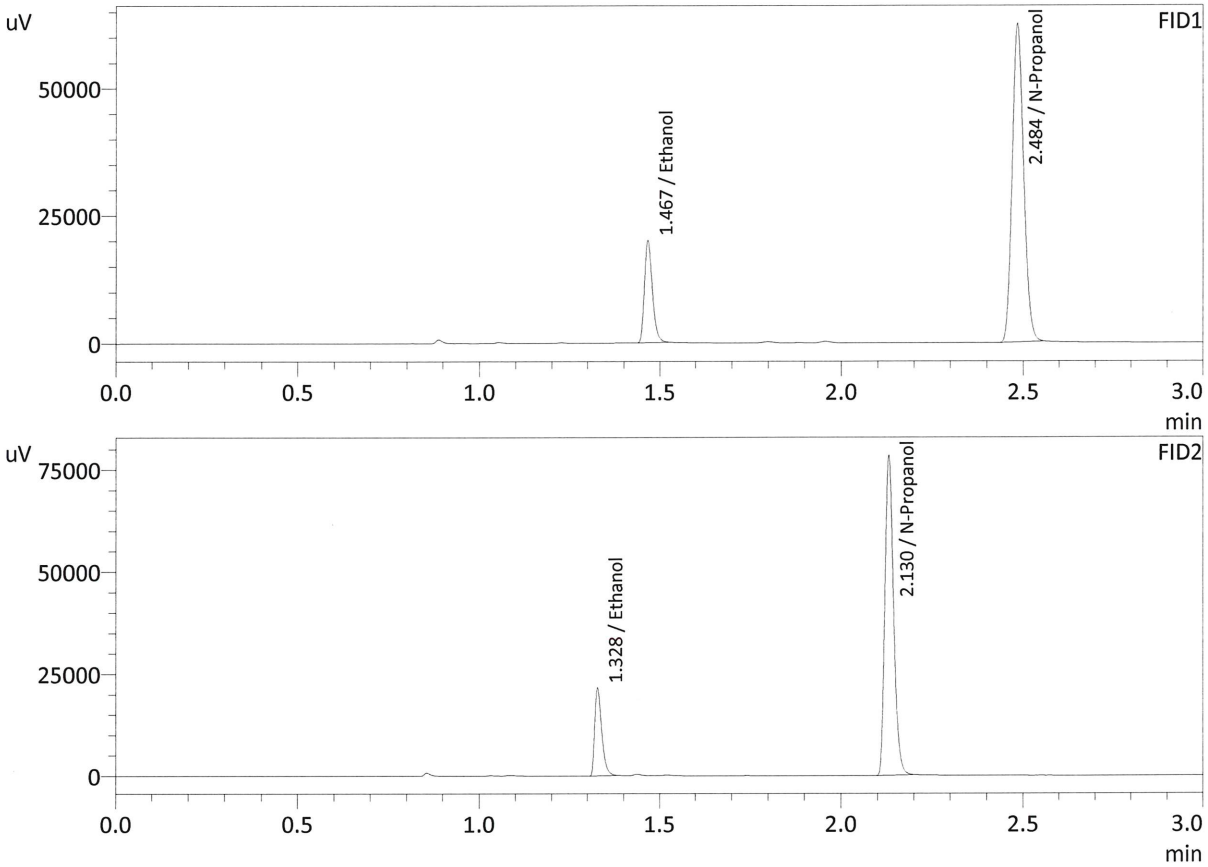
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.3203	25324	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	36873	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.3199	23936	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	35057	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

JC

Sample Name : QC1-2-B
Laboratory : Meridian
Injection Date : 12/17/2021 10:22:04 PM
Vial # : 48
Method Filename : C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1063	30670	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	138502	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1062	28934	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	129622	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

JL

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC2-1 **Analysis Date(s): 12/17/21**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.2147	0.2152	0.0005	0.2149	0.0004	0.2147
(g/100cc)	0.2142	0.2148	0.0006	0.2145		

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

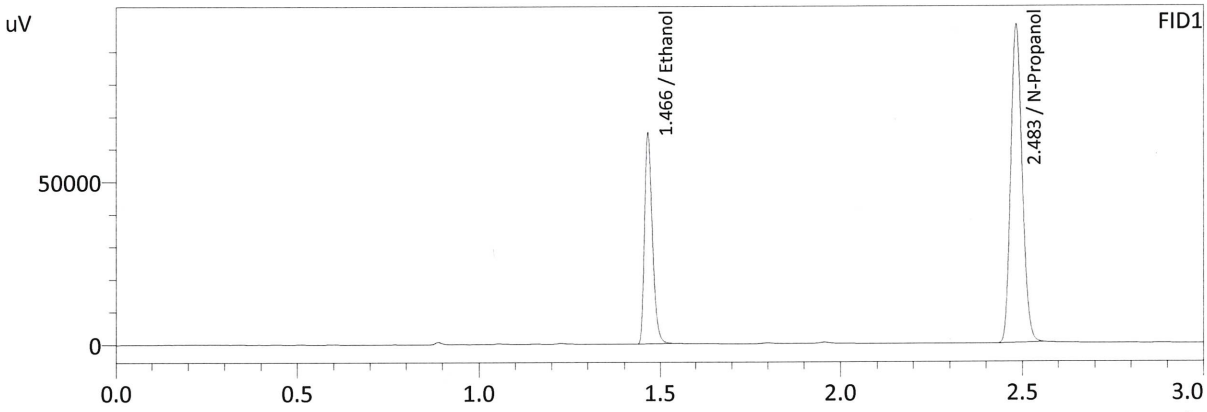
Reporting of Results **Uncertainty of Measurement (UM%): 5.00%**

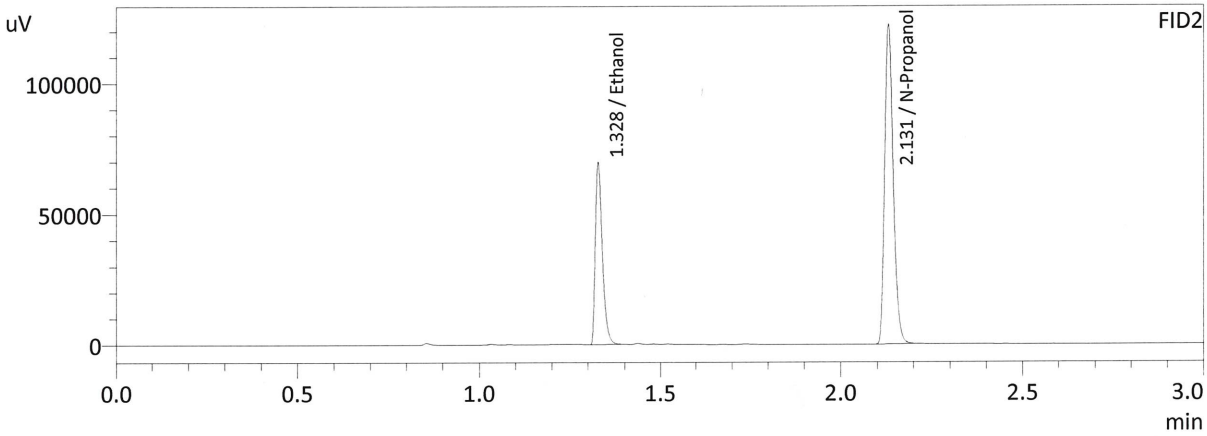
Overall Mean (g/100cc)	Low	High	5% of Mean
0.214	**0.203**	**0.225**	**0.011**

	Reported Result	
	0.214	

Calibration and control data are stored centrally.

Sample Name : QC-2-1-A
Laboratory : Meridian
Injection Date : 12/17/2021 7:14:48 PM
Vial # : 25
Method Filename : C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409





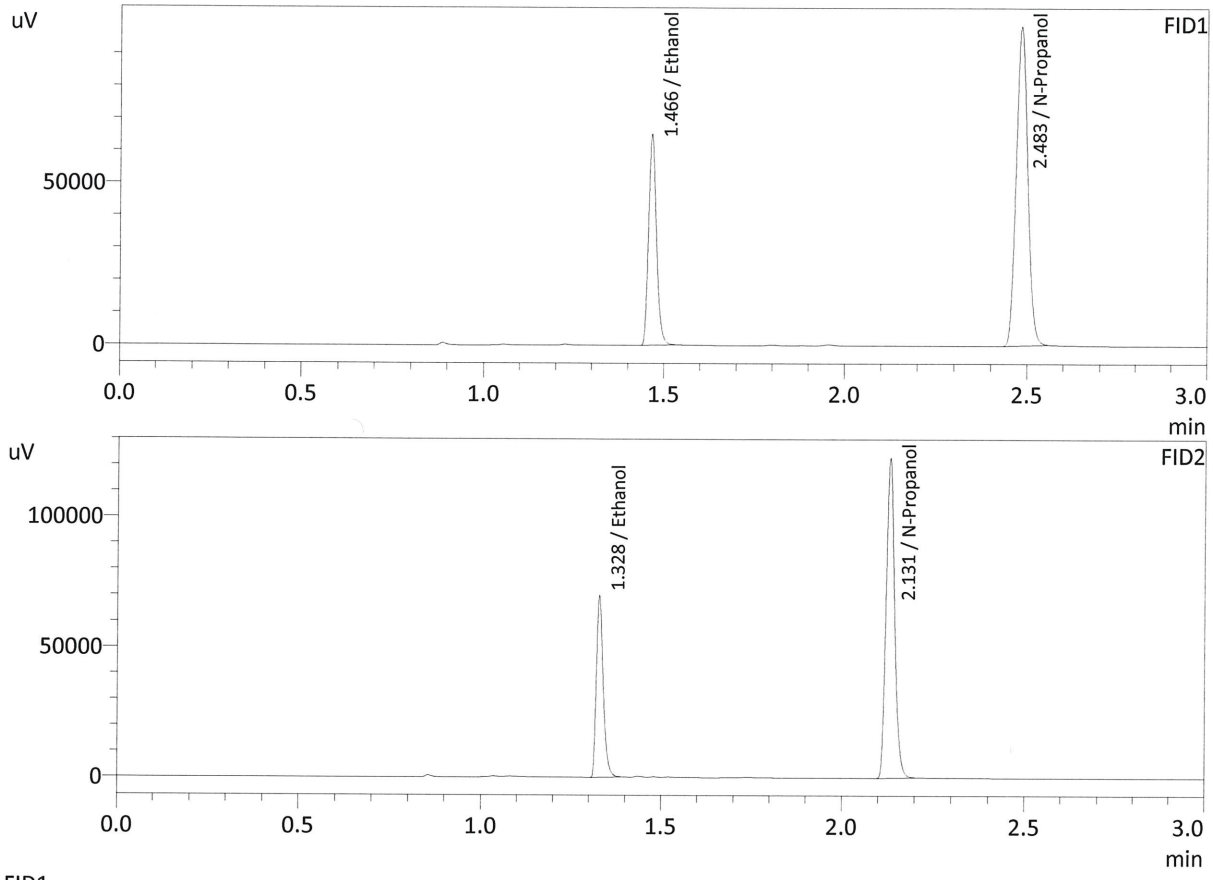
FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2147	99019	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	216555	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2152	91980	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	201020	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

Sample Name : QC-2-1-B
Laboratory : Meridian
Injection Date : 12/17/2021 7:22:15 PM
Vial # : 26
Method Filename : C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2142	99296	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	217679	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2148	92260	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	201976	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

12/21/21

Laboratory No.: ~~QC2-1~~ QC2-2 JG **Analysis Date(s): 12/17/21**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.2141	0.2151	0.0010	0.2146	0.0014	0.2153
(g/100cc)	0.2156	0.2164	0.0008	0.2160		

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
0.215	0.204	0.226	0.011

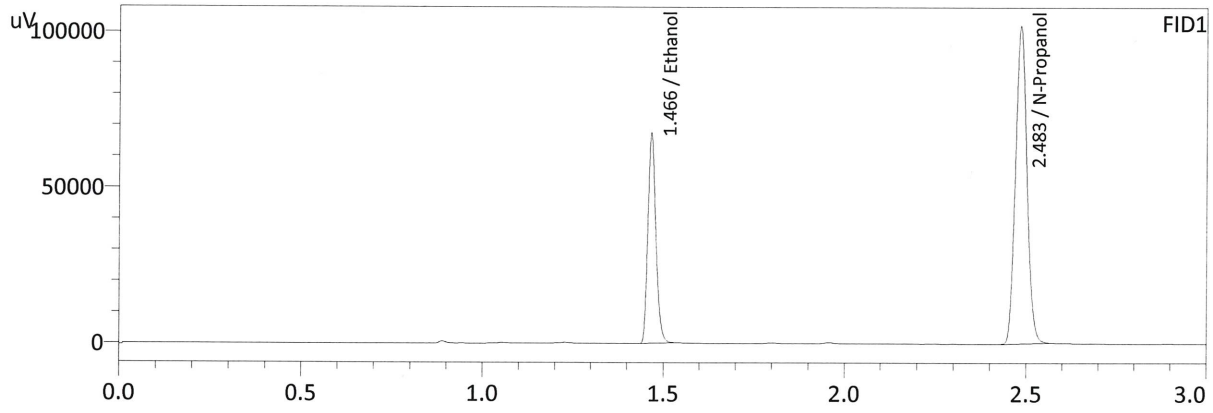
Reported Result

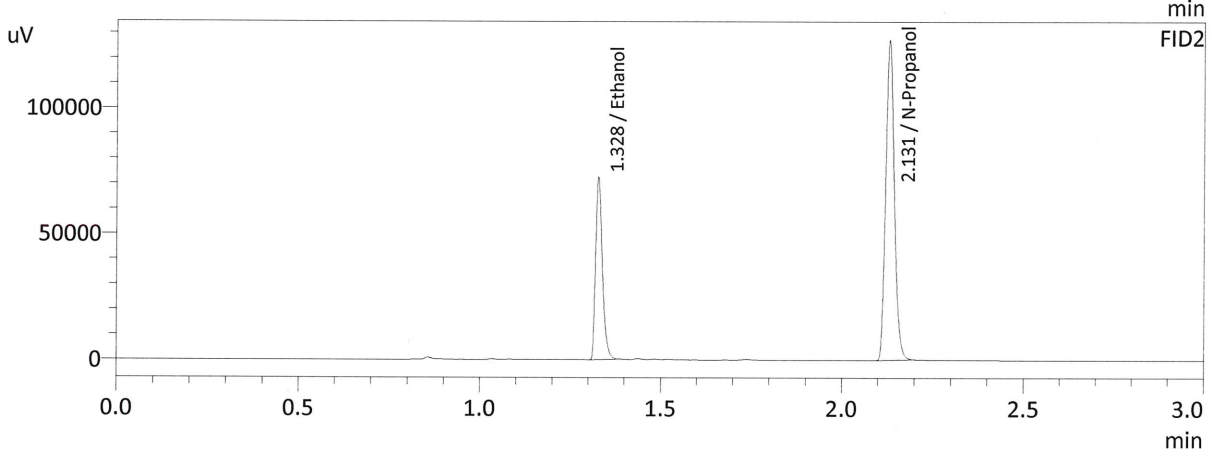
0.215

Calibration and control data are stored centrally.

JC

Sample Name : QC2-2-A
Laboratory : Meridian
Injection Date : 12/17/2021 11:49:36 PM
Vial # : 59
Method Filename : C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409





FID1

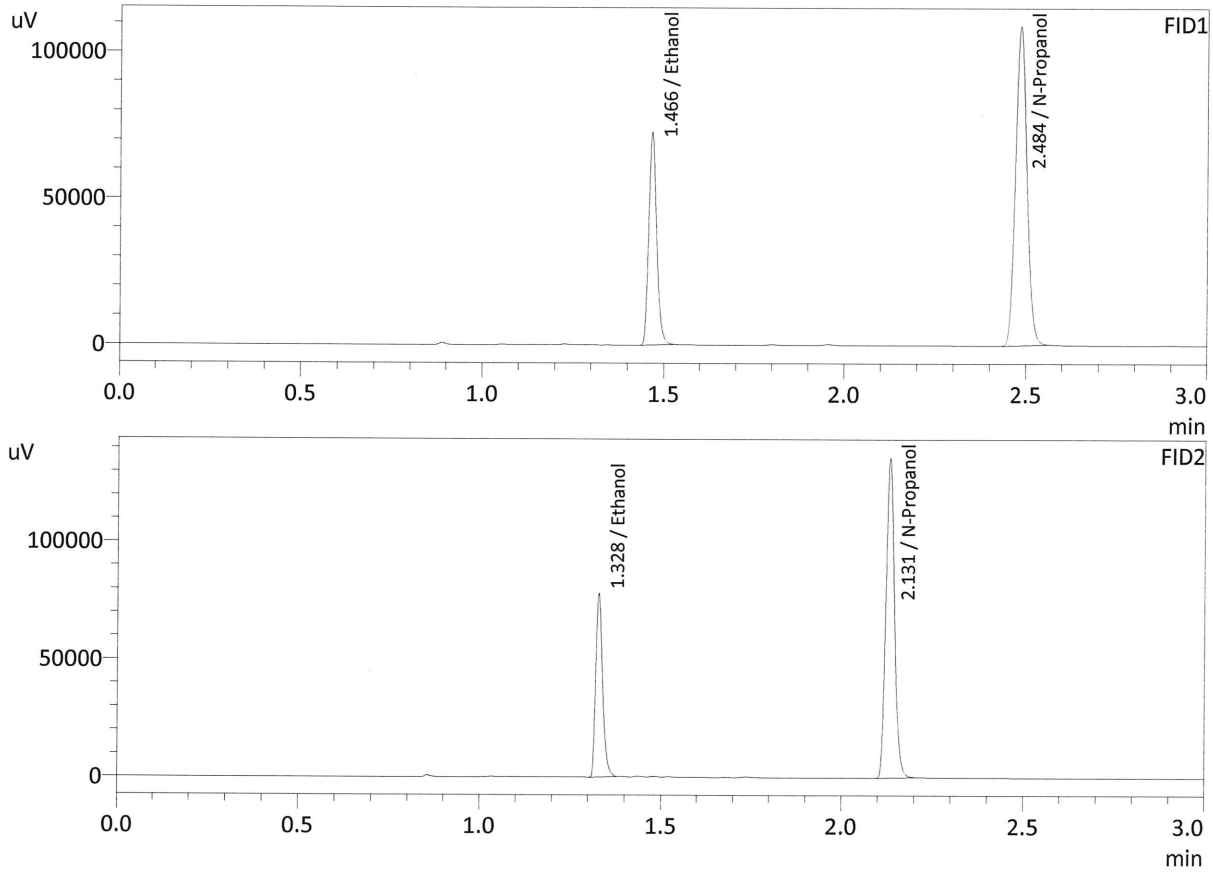
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2141	102864	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	225606	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2151	95679	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	209148	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

JG

Sample Name : QC2-2-B
Laboratory : Meridian
Injection Date : 12/17/2021 11:58:36 PM
Vial # : 60
Method Filename : C:\LabSolutions\Data\211217\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

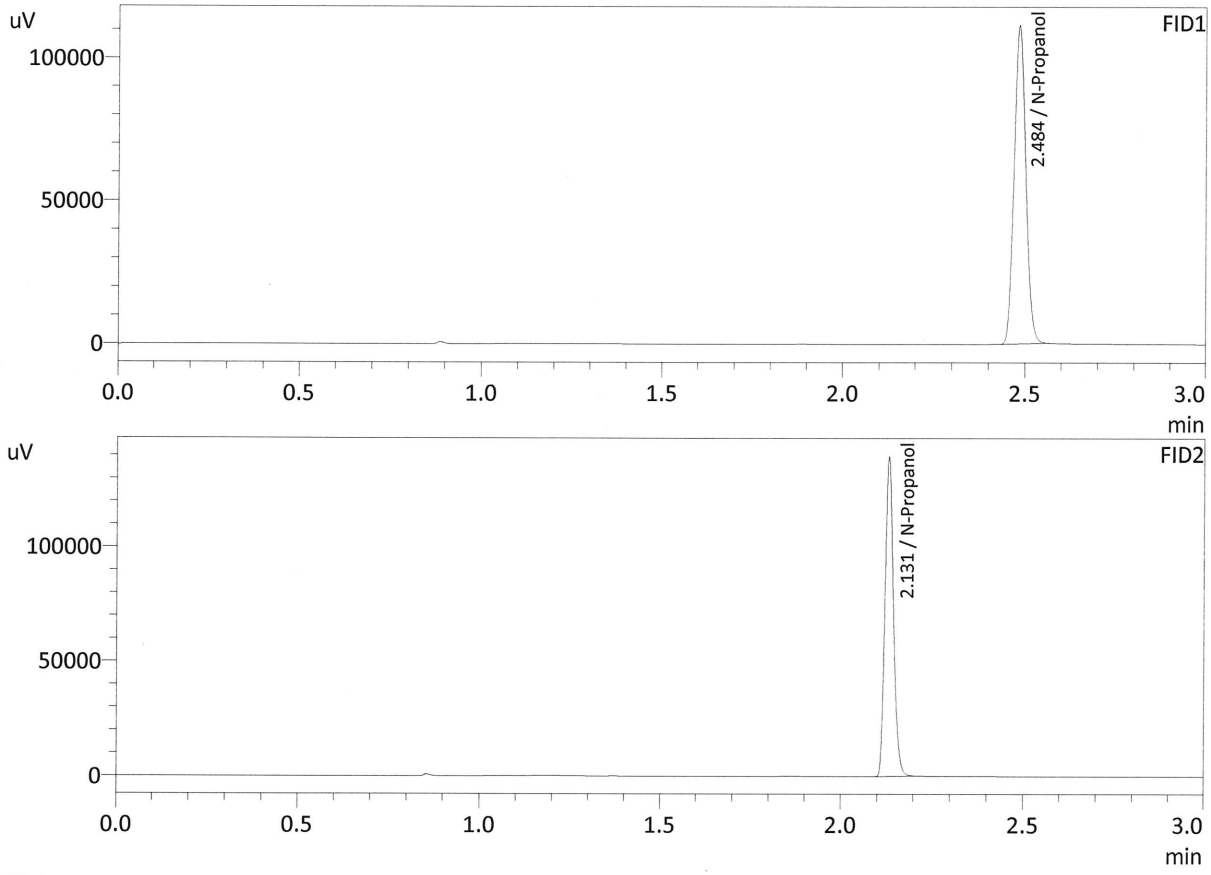
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2156	110766	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	241238	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2164	102927	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	223636	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

JG

Sample Name : INT STD BLNK
Laboratory : Meridian
Injection Date : 12/18/2021 12:05:57 AM
Vial # : 61
Method Filename : C:\LabSolutions\Data\211217\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	246282	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	228865	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

JG