Worklist: 6501

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
M2023-3835	1	BCK	BATS Proficiency Test
M2023-3835	2	BCK	BATS Proficiency Test
M2023-3835	3	BCK	BATS Proficiency Test
M2023-3835	4	BCK	BATS Proficiency Test
M2023-3853	1	BCK	Alcohol Analysis
M2023-3857	1	BCK	Alcohol Analysis
M2023-3863	1	BCK	Alcohol Analysis
M2023-3868	1	BCK	Alcohol Analysis
M2023-3884	1	BCK	Alcohol Analysis
M2023-3890	1	BCK	Alcohol Analysis
M2023-3897	1	BCK	Alcohol Analysis
M2023-3934	1	BCK	Alcohol Analysis
M2023-3938	1	BCK	Alcohol Analysis
M2023-3949	1	BCK	Alcohol Analysis
M2023-3960	1	BCK	Alcohol Analysis
M2023-3980	1	BCK	Alcohol Analysis
M2023-3982	1	BCK	Alcohol Analysis
M2023-3990	1	BCK	Alcohol Analysis
M2023-3991	1	BCK	Alcohol Analysis
M2023-4003	1	BCK	Alcohol Analysis

JJ

REVIEWED

By Jeremy Johnston at 2:55 pm, Sep 18, 2023

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): 9/15/23**

Calibration Date: *(if different)* **9/15/23**

Worklist #: 6501

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Feb-25	2101199	0.0808	0.0727-0.0889	0.0793 g/100cc
					0.0821 g/100cc
					g/100cc
Level 2	Mar-26	2110181	0.2030	0.1827-0.2233	0.2046 g/100cc
					0.2056 g/100cc
					g/100cc

Multi-Component mixture:	Exp:	Oct. 2024	Lot #	FN06041902	
Curve Fit:		**Column 1**	0.99976	**Column2**	0.99975

Ethanol Calibration Reference Material

Calibrator level	Target Value	Acceptable Range	Column 1	Column 2	Precision	Mean
50	0.050	0.045 - 0.055	0.0521	0.0520	0.0001	0.052
100	0.100	0.090 - 0.110	0.1006	0.1008	0.0002	0.1007
200	0.200	0.180 - 0.220	0.1951	0.1950	1E-04	0.195
300	0.300	0.270 - 0.330	0.3012	0.3010	0.0002	0.3011
400	0.400	0.360 - 0.440			0	#DIV/0!
500	0.500	0.450 - 0.550	0.5008	0.5009	1E-04	0.5008

Aqueous Controls

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

JG

Internal Standard Monitoring Worksheet

Worklist #: **6501** **Run Date(s):** **9/15/23**

Internal Standard Solution:	Prep Date: 9/11/2023	Exp Date: 3/11/2023

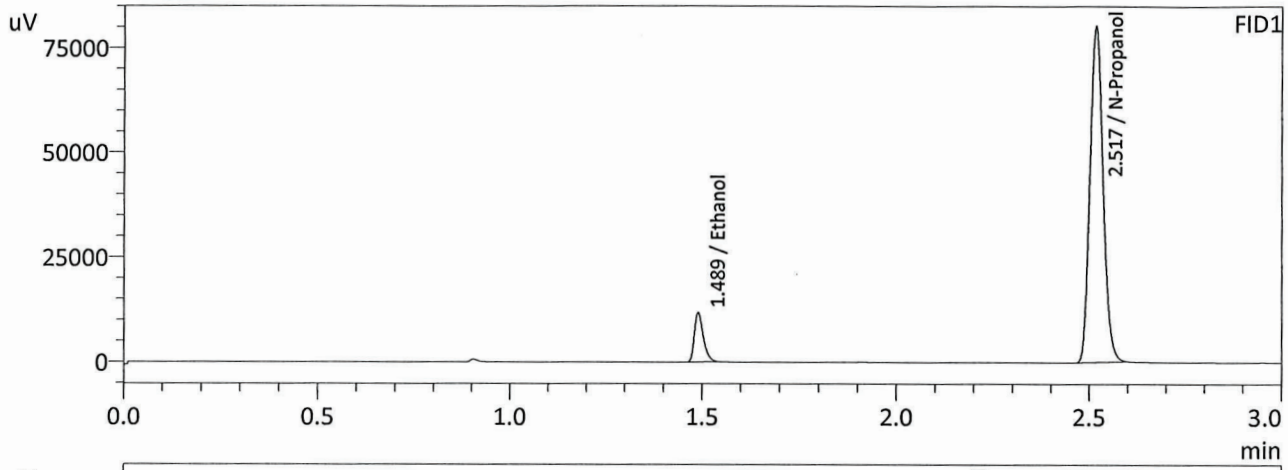
Sample Name	Column 1 Value	Column 2 Value
0.080	190645	206384
0.080	189144	204606
QC1	190088	205633
QC1	189572	205304
QC1	222671	241185
QC1	225285	244332
QC1		
QC1		
QC2	208826	226592
QC2	214548	232715
QC2	226840	245859
QC2	232587	252719
QC2		
QC2		

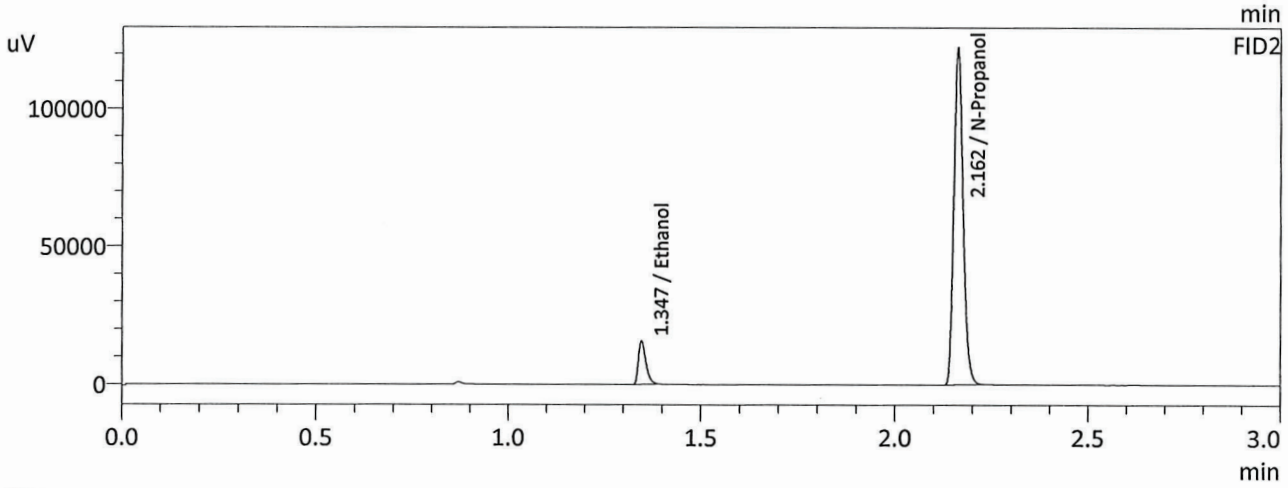
	Average	(-)20%	(+)20%
Column 1	209020.6	167216.5	250824.7
Column 2	226532.9	181226.3	271839.5

JG

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

Sample Name : 0.050
Laboratory : Meridian
Injection Date : 9/15/2023 12:55:55 PM
Vial # : 1
Method Filename : Default Project - ALCOHOL_230915.GCM.gcm
Instrument #GC/HS : C12255750548 / C12595800409





FID1

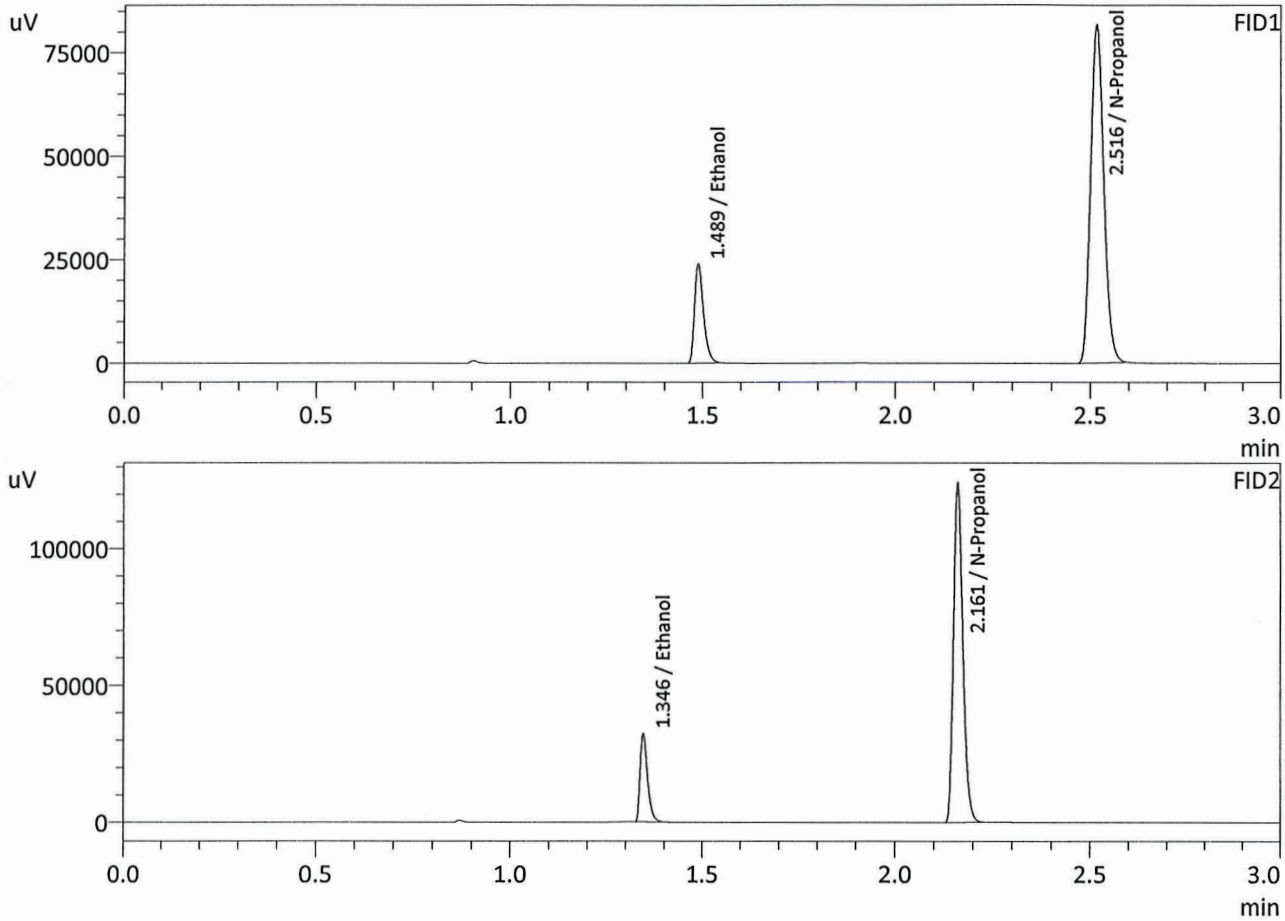
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0521	19582	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	187427	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0520	21053	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	202748	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JC

Sample Name : 0.100
Laboratory : Meridian
Injection Date : 9/15/2023 1:03:17 PM
Vial # : 2
Method Filename : Default Project - ALCOHOL_230915.GCM.gcm
Instrument #GC/HS : C12255750548 / C12595800409



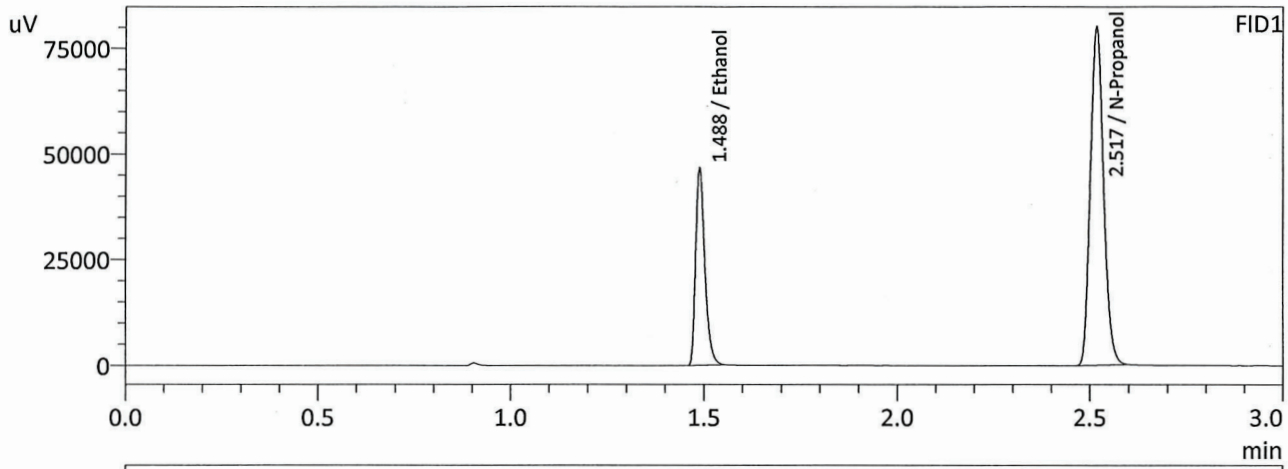
FID1

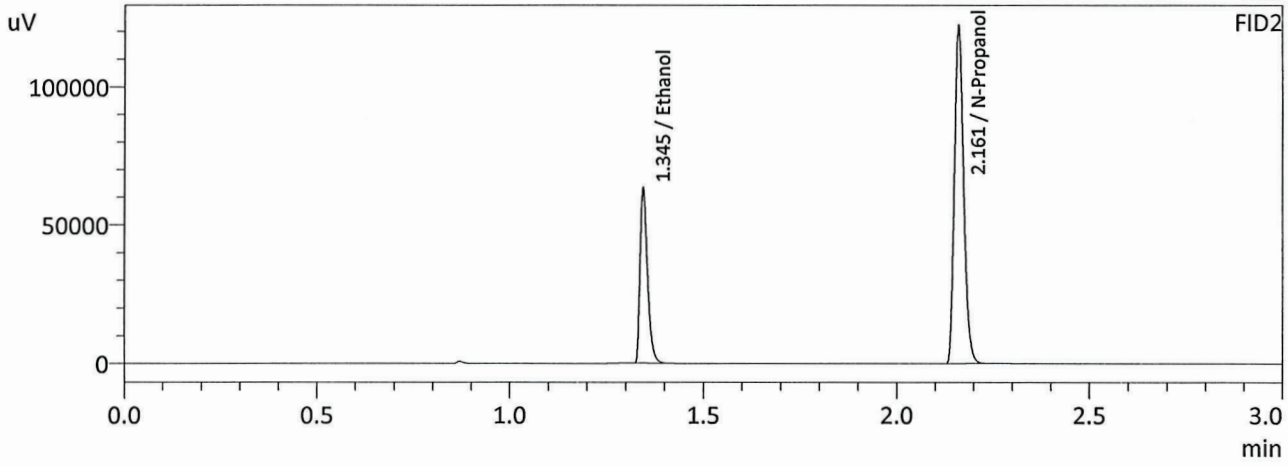
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1006	39714	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	190305	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1008	43051	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	206039	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

Sample Name : 0.200
Laboratory : Meridian
Injection Date : 9/15/2023 1:10:39 PM
Vial # : 3
Method Filename : Default Project - ALCOHOL_230915.GCM.gcm
Instrument #GC/HS : C12255750548 / C12595800409





FID1

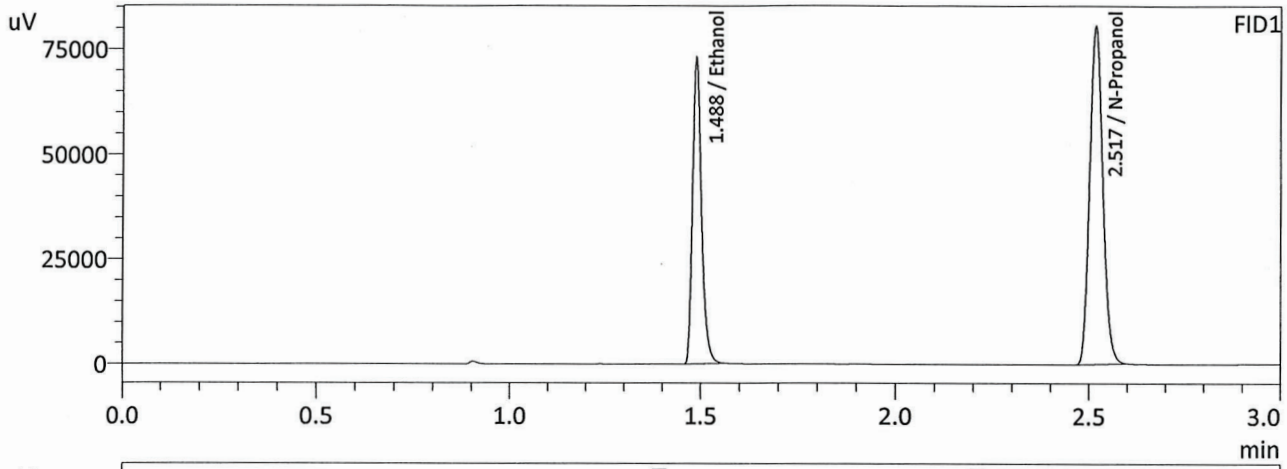
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1951	77081	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	187249	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

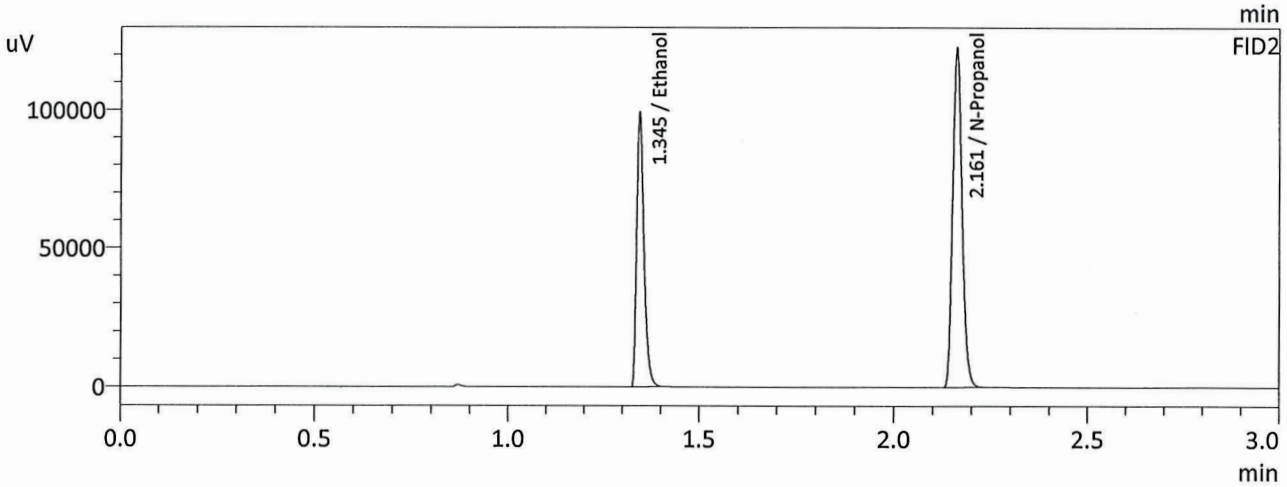
FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1950	83551	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	202700	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JC

Sample Name : 0.300
Laboratory : Meridian
Injection Date : 9/15/2023 1:19:25 PM
Vial # : 4
Method Filename : Default Project - ALCOHOL_230915.GCM.gcm
Instrument #GC/HS : C12255750548 / C12595800409





FID1

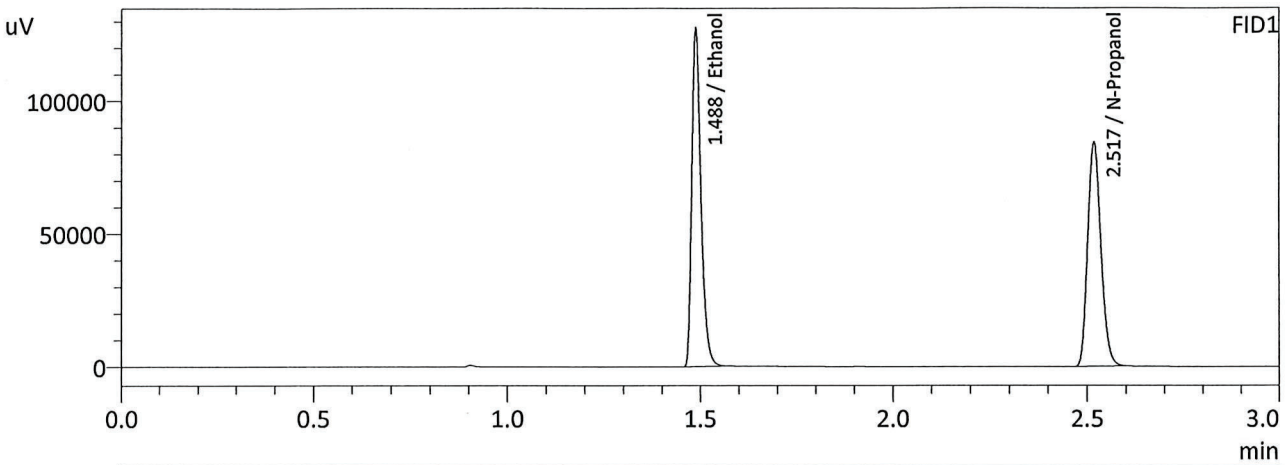
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.3012	120214	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	187999	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

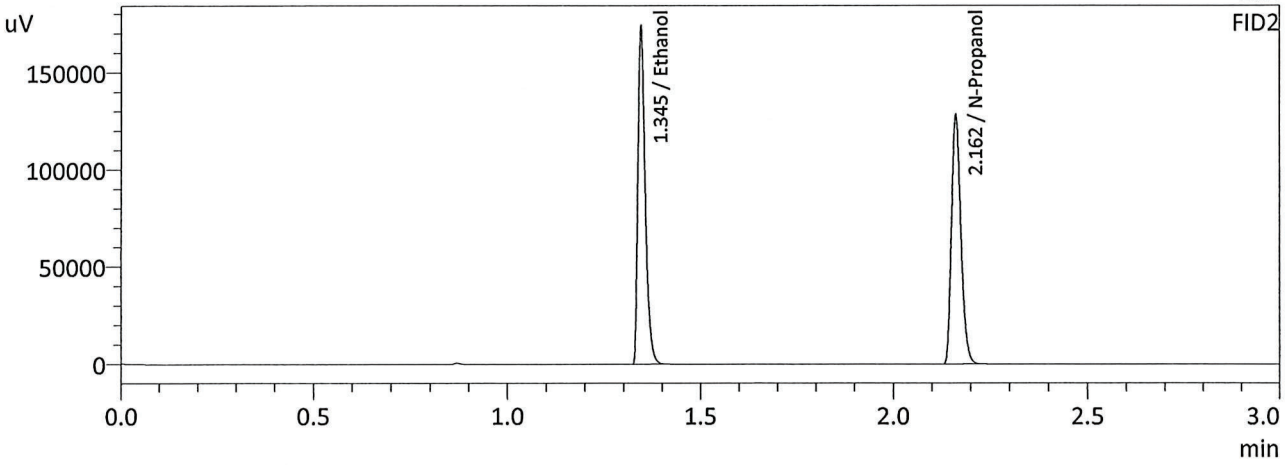
FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.3010	130362	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	203494	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

Sample Name : 0.500
Laboratory : Meridian
Injection Date : 9/15/2023 1:28:04 PM
Vial # : 5
Method Filename : Default Project - ALCOHOL_230915.GCM.gcm
Instrument #GC/HS : C12255750548 / C12595800409





FID1

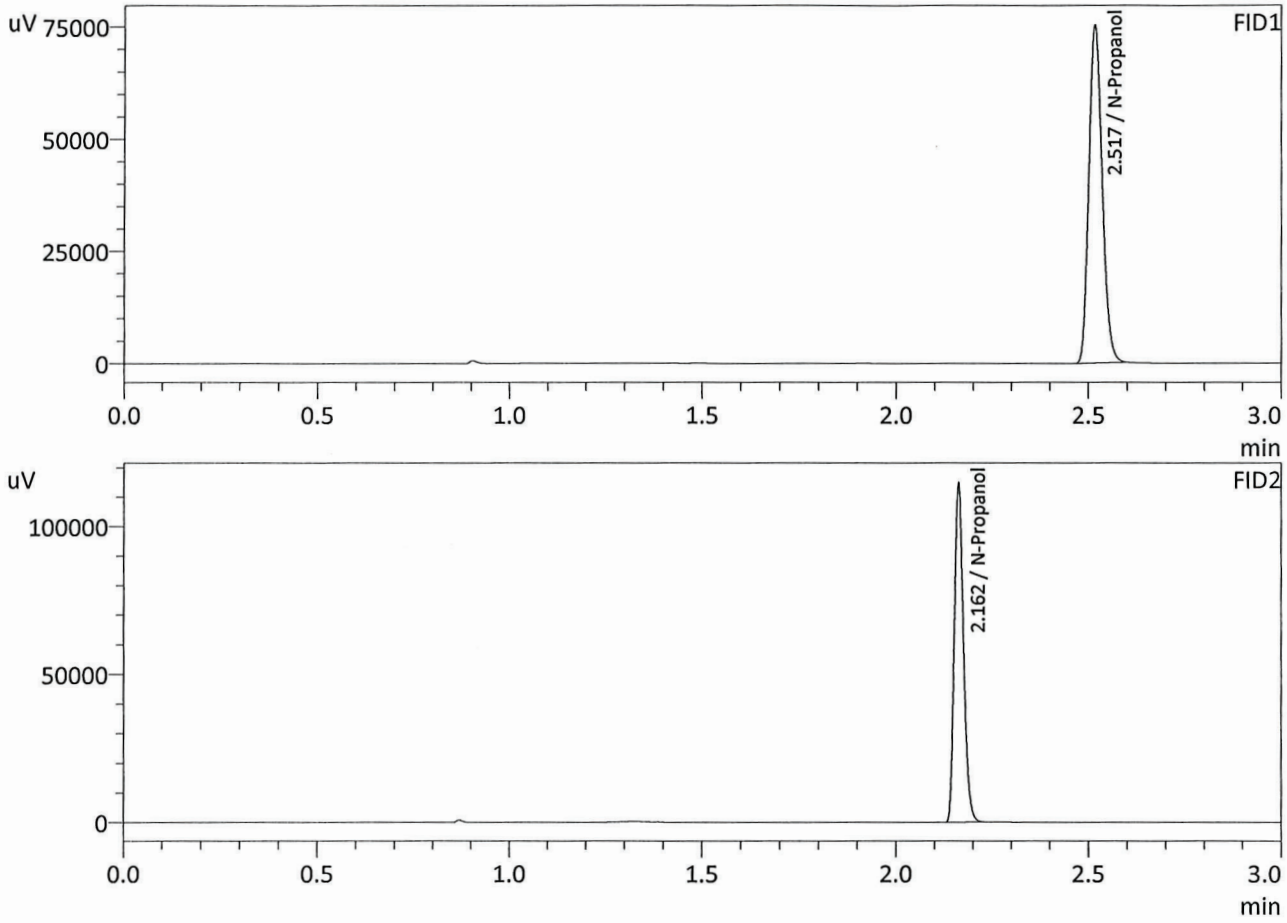
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.5008	209796	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	196428	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.5009	228043	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	212795	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

Sample Name : INT STD BLK
Laboratory : Meridian
Injection Date : 9/15/2023 1:35:24 PM
Vial # : 6
Method Filename : Default Project - ALCOHOL_230915.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	175525	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

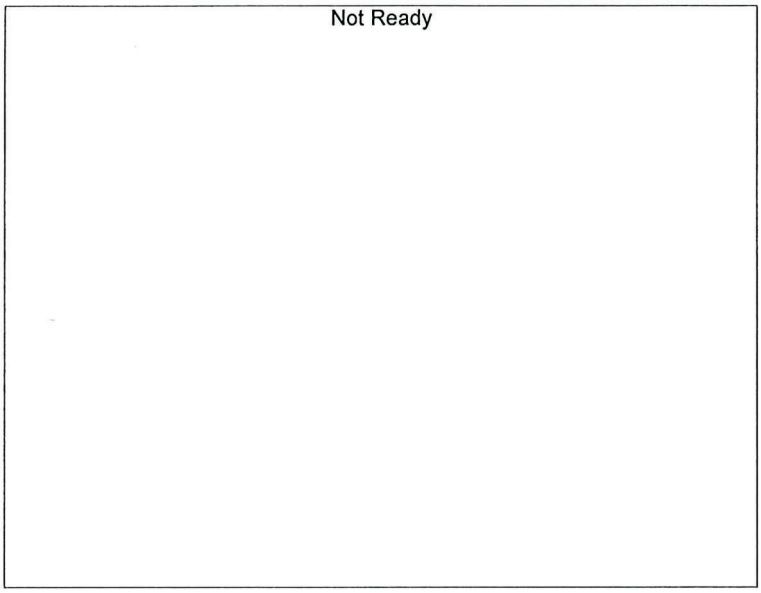
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	190352	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

Calibration Table

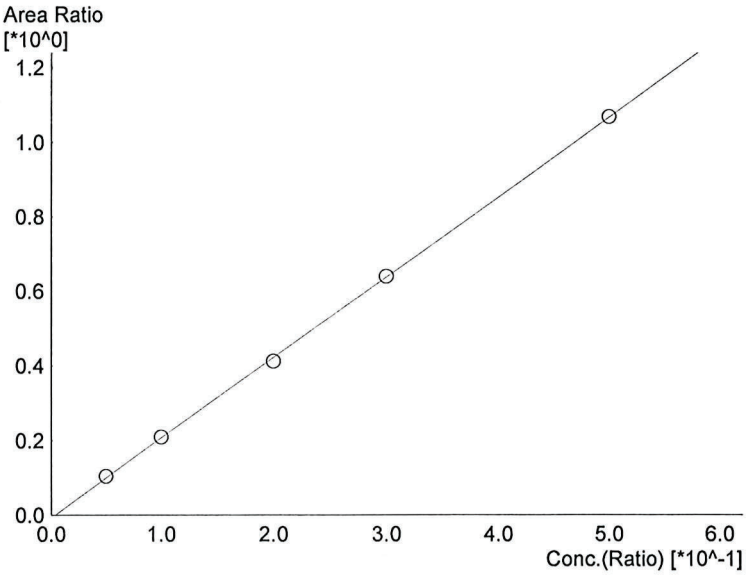
Laboratory : MERIDIAN
Instrument Name : GC-BAC
Instrument Serial # : C12595800409 / C12255750548

<<Data File>>
Method File :Default Project - ALCOHOL_230915.GCM.gcm
Batch File :Default Project - CALCURVE_230915.gcb
Date Acquired :9/15/2023 1:28:04 PM
Date Created :9/15/2023 1:22:29 PM
Date Modified :9/15/2023 1:31:06 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)=2.14728*x-0.00741126
R^2 value= 0.9997614
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
1	0.050	19582	0.0521
2	0.100	39714	0.1006
3	0.200	77081	0.1951
4	0.300	120214	0.3012
5	0.500	209796	0.5008

JL

Not Ready

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.

Not Ready

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

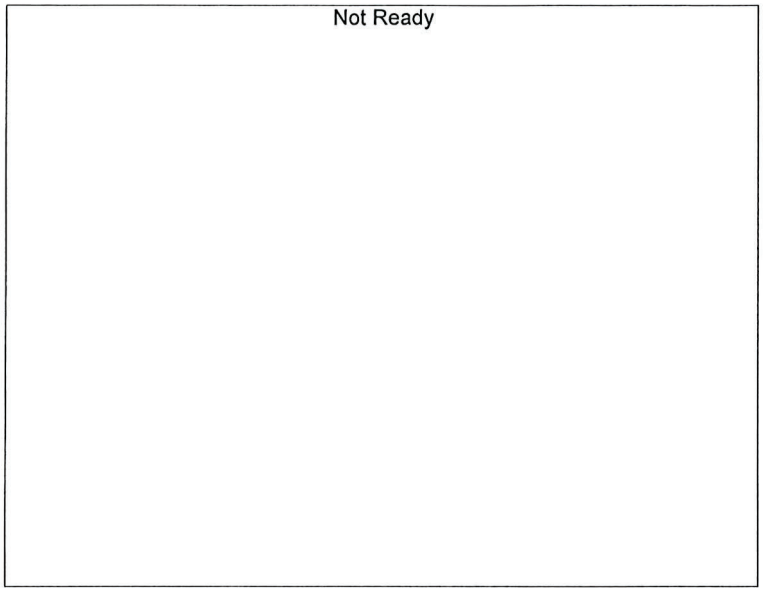
#	Conc.	Area	Std. Conc.

Not Ready

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

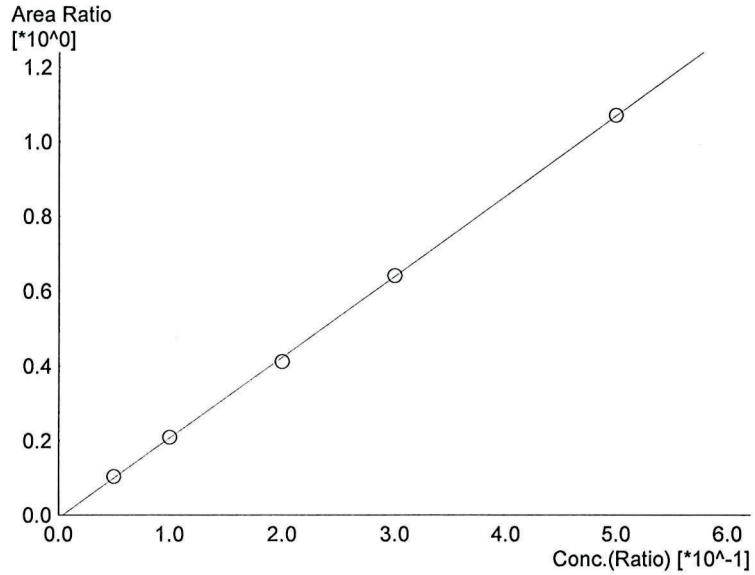
#	Conc.	Area	Std. Conc.

JG



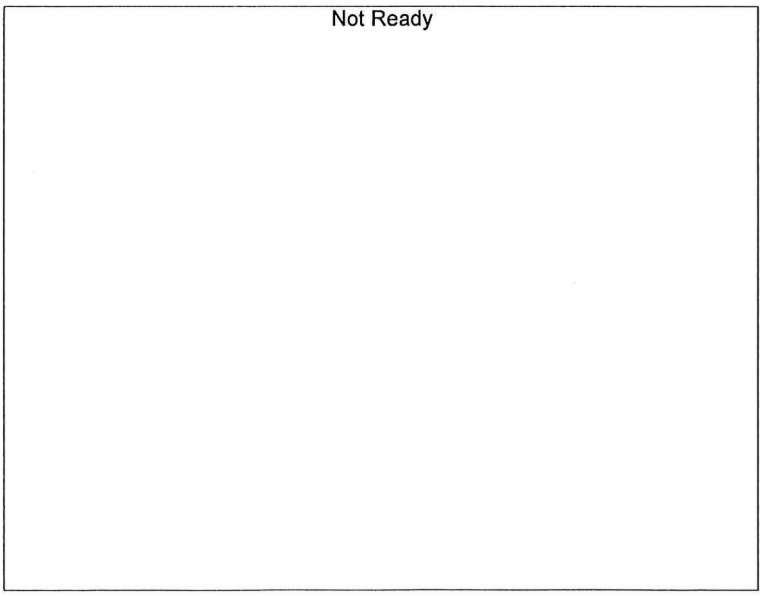
Name : Methanol
Detector Name: FID2
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.



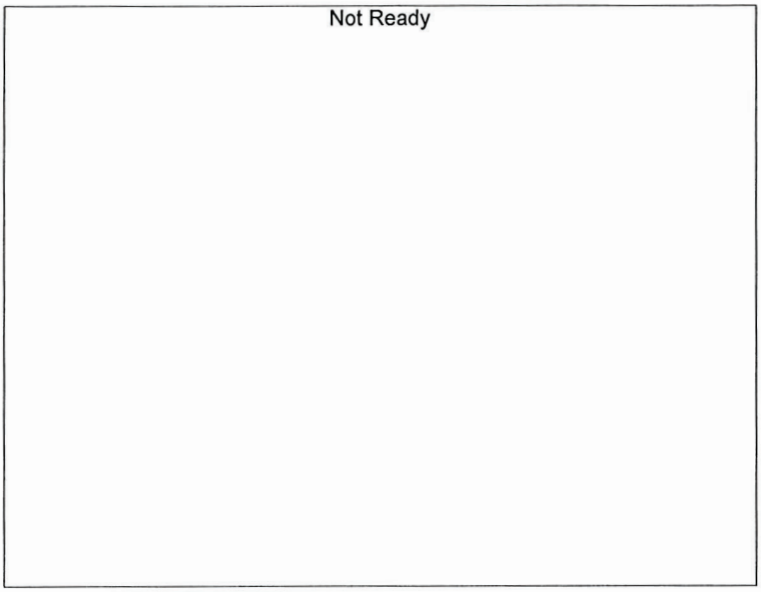
Name : Ethanol
Detector Name: FID2
Function : f(x)=2.15602*x-0.00843521
R^2 value= 0.9997572
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
1	0.050	21053	0.0520
2	0.100	43051	0.1008
3	0.200	83551	0.1950
4	0.300	130362	0.3010
5	0.500	228043	0.5009



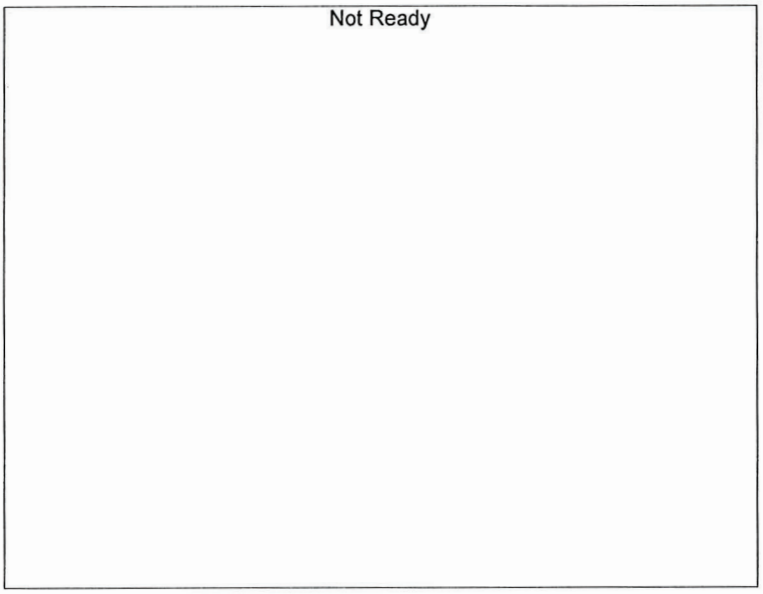
Name : Acetone
Detector Name: FID2
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	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 : 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

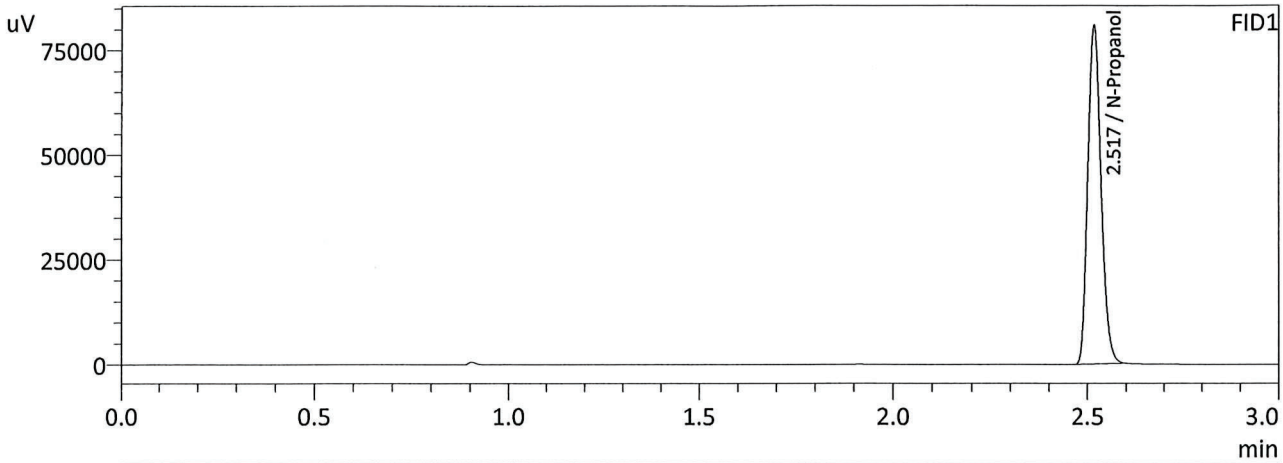
Meridian Blood Alcohol Analysis Batch Table

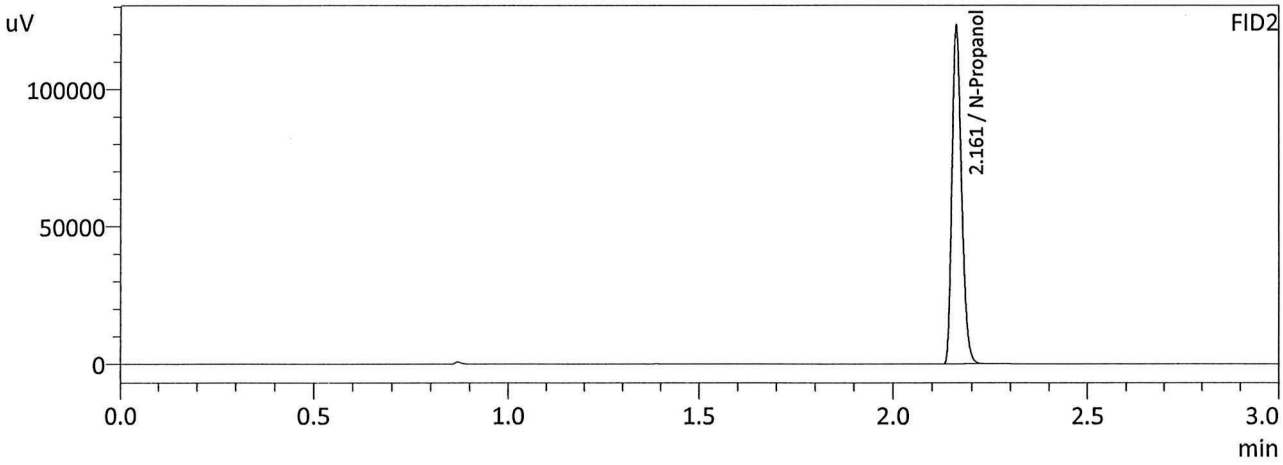
Shimadzu GC-2030 Serial #C12255750548
Shimadzu HS-20 Serial #C12595800409
Lab Solutions Database Software Ver. 6.111

Vial#	Sample Name	Sample Type	Level#	Method File
1	0.050	1:Standard:(I)	1	ALCOHOL 230915.GCM.gcm
2	0.100	1:Standard	2	ALCOHOL 230915.GCM.gcm
3	0.200	1:Standard	3	ALCOHOL 230915.GCM.gcm
4	0.300	1:Standard	4	ALCOHOL 230915.GCM.gcm
5	0.500	1:Standard	5	ALCOHOL 230915.GCM.gcm
6	INT STD BLK	0:Unknown	0	ALCOHOL 230915.GCM.gcm

JC

Sample Name : ISTD BLK 1
Laboratory : Meridian
Injection Date : 9/15/2023 2:23:02 PM
Vial # : 1
Method Filename : Default Project - ALCOHOL_230915.GCM.gcm
Instrument #GC/HS : C12255750548 / C12595800409





FID1

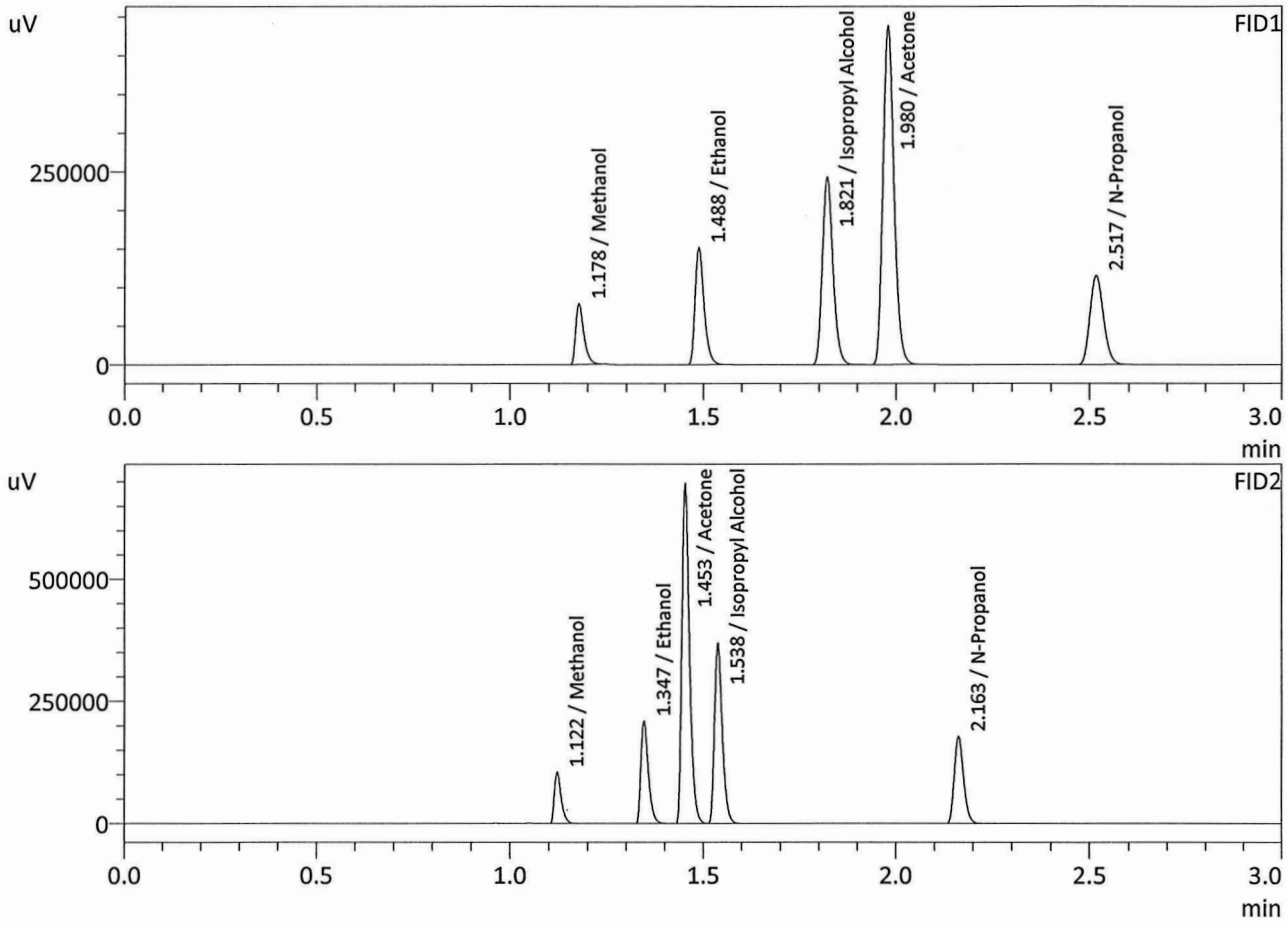
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	188659	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	204047	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

Sample Name	: MIXED VOLATILES FN 06041902
Laboratory	: Meridian
Injection Date	: 9/15/2023 2:30:23 PM
Vial #	: 2
Method Filename	: Default Project - ALCOHOL_230915.GCM.gcm
Instrument #GC/HS	: C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	0.0000	116315	g/100cc
Ethanol	0.4369	250186	g/100cc
Isopropyl Alcohol	0.0000	472196	g/100cc
Acetone	0.0000	859790	g/100cc
N-Propanol	0.0000	268754	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	0.0000	129749	g/100cc
Ethanol	0.4386	273896	g/100cc
Acetone	0.0000	933672	g/100cc
Isopropyl Alcohol	0.0000	510443	g/100cc
N-Propanol	0.0000	292239	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: QC-1-1 **Analysis Date(s): 9/15/2023 2:38:02 PM(-06:00)**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0791	0.0789	0.0002	0.0790	0.0006	0.0793
(g/100cc)	0.0798	0.0795	0.0003	0.0796		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information — Instrument information is stored centrally.

Refer To Instrument Method: ALCOHOL_230915.GCM.gcm

Reporting of Results	Uncertainty of Measurements (UM%):	5.00%

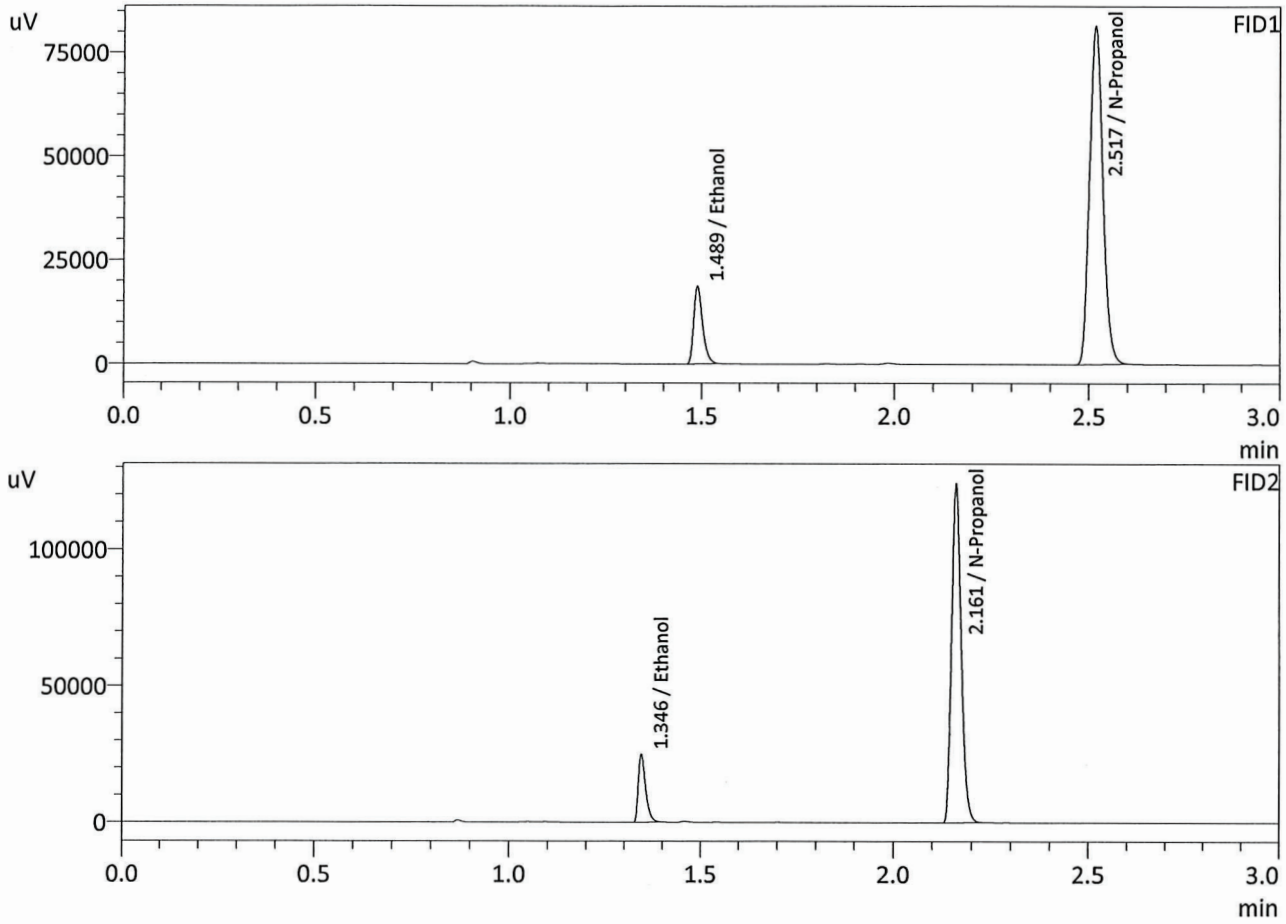
Overall Mean (g/100cc)	Low	High	5 % of Mean
0.079	0.075	0.083	0.004

Reported Results
0.079

Calibration and control data are stored centrally.

JG

Sample Name : QC-1-1
Laboratory : Meridian
Injection Date : 9/15/2023 2:38:02 PM
Vial # : 3
Method Filename : Default Project - ALCOHOL_230915.GCM.gcm
Instrument #GC/HS : C12255750548 / C12595800409



FID1

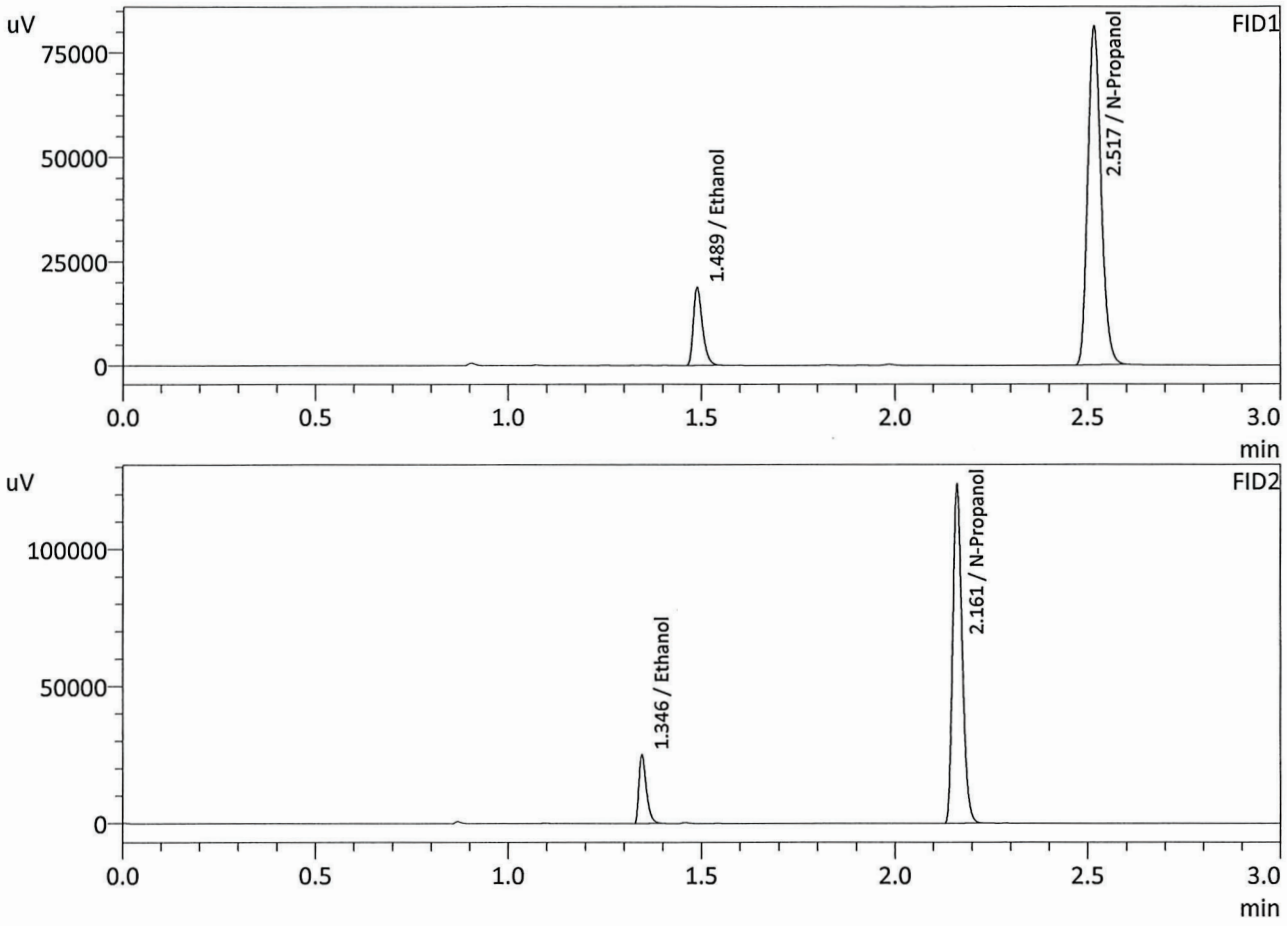
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0791	30891	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	190088	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0789	33287	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	205633	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

Sample Name : QC-1-1-B
Laboratory : Meridian
Injection Date : 9/15/2023 2:46:44 PM
Vial # : 4
Method Filename : Default Project - ALCOHOL_230915.GCM.gcm
Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0798	31099	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	189572	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0795	33496	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	205304	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JC

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: 0.08 QA **Analysis Date(s): 9/15/2023 2:55:17 PM(-06:00)**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0833	0.0829	0.0004	0.0831	0.0025	0.0818
(g/100cc)	0.0809	0.0804	0.0005	0.0806		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information — Instrument information is stored centrally.

Refer To Instrument Method: ALCOHOL_230915.GCM.gcm

Reporting of Results	Uncertainty of Measurements (UM%):	5.00%

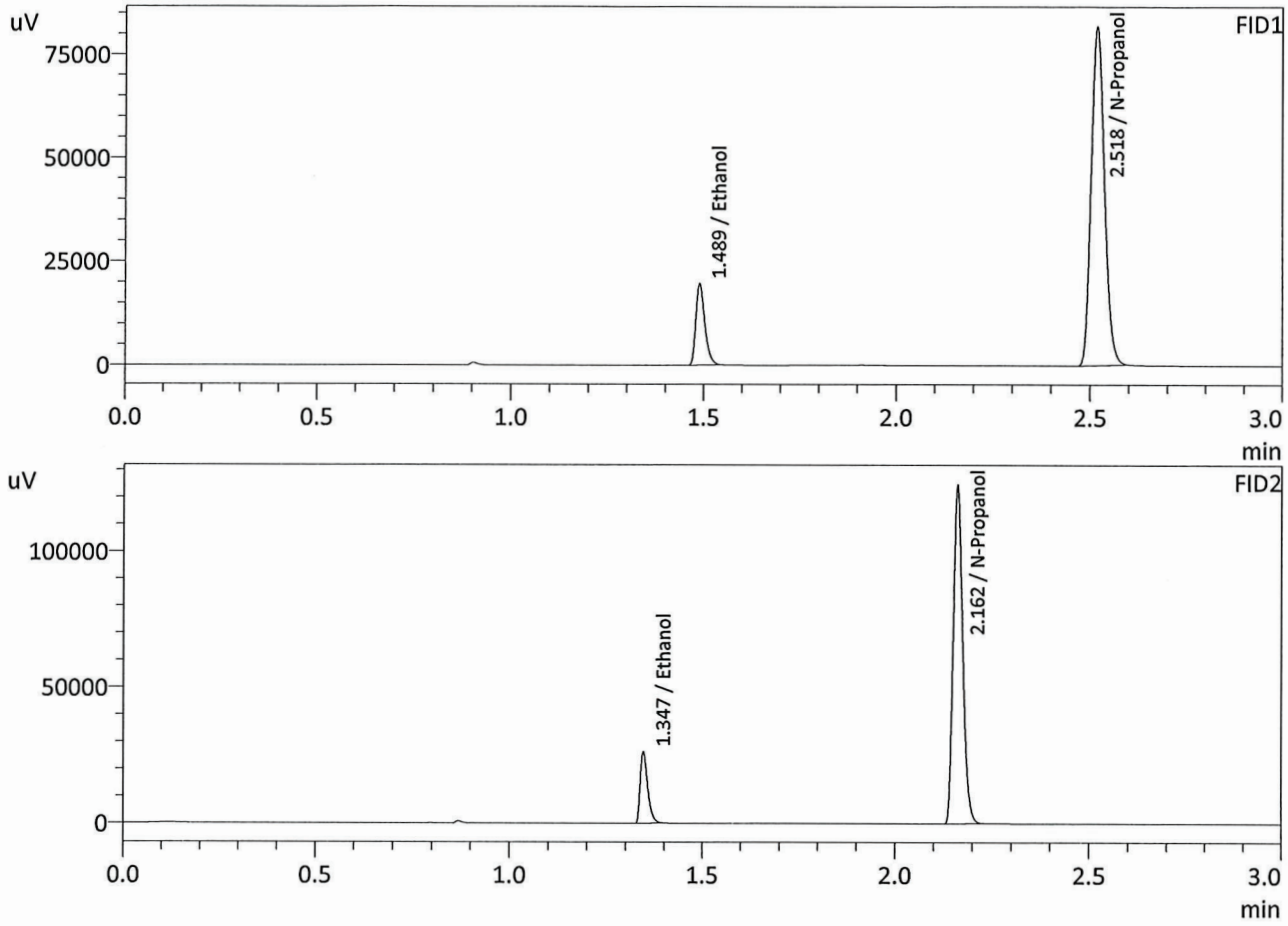
Overall Mean (g/100cc)	Low	High	5 % of Mean
0.081	0.076	0.086	0.005

Reported Results
0.081

Calibration and control data are stored centrally.

JL

Sample Name : 0.08 QA
Laboratory : Meridian
Injection Date : 9/15/2023 2:55:17 PM
Vial # : 5
Method Filename : Default Project - ALCOHOL_230915.GCM.gcm
Instrument #GC/HS : C12255750548 / C12595800409



FID1

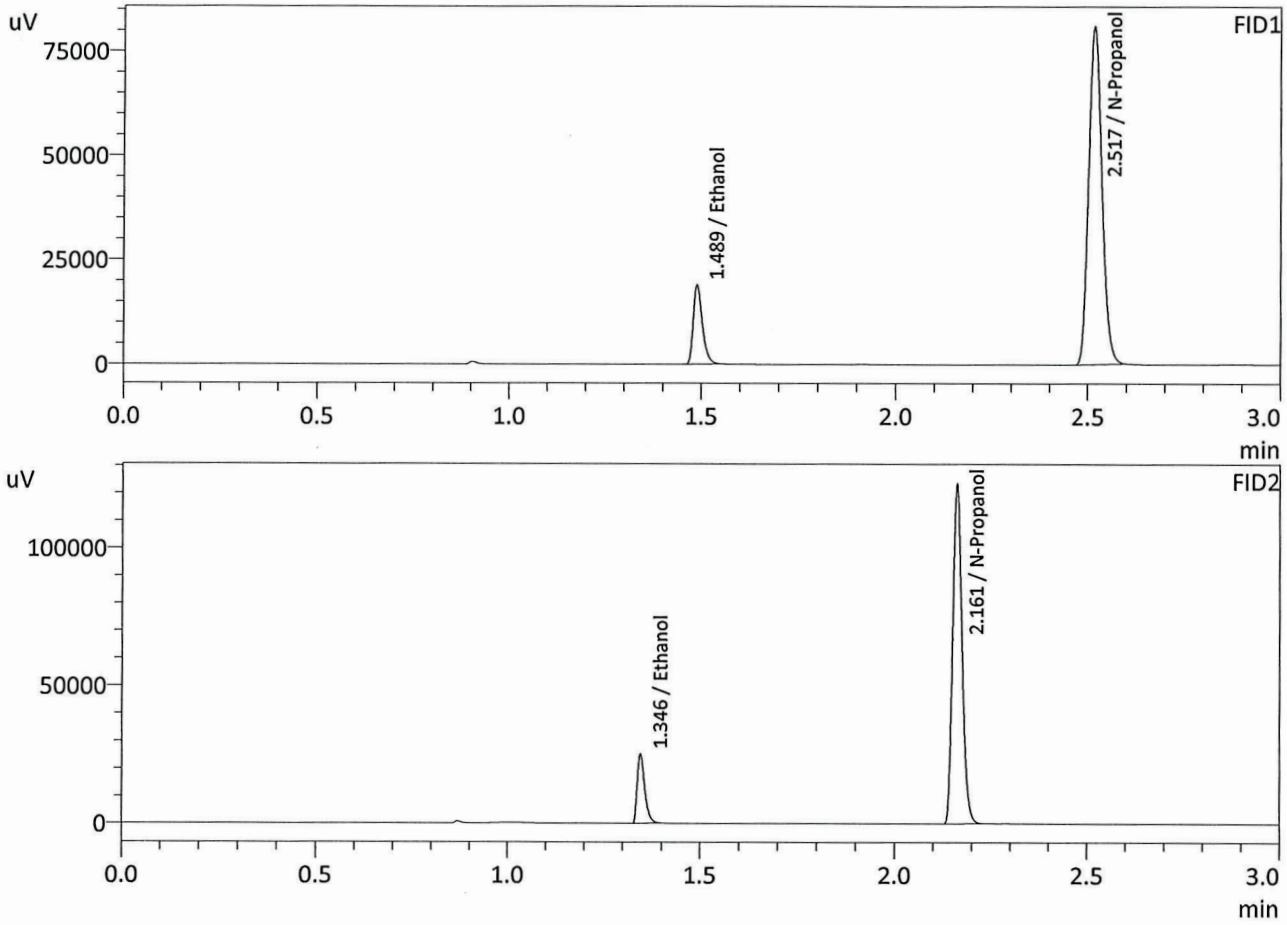
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0833	32702	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	190645	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0829	35160	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	206384	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JL

Sample Name : 0.08 QA-B
Laboratory : Meridian
Injection Date : 9/15/2023 3:02:57 PM
Vial # : 6
Method Filename : Default Project - ALCOHOL_230915.GCM.gcm
Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0809	31461	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	189144	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0804	33759	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	204606	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: QC-2-1 **Analysis Date(s): 9/15/2023 5:38:20 PM(-06:00)**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.2065	0.2061	0.0004	0.2063	0.0033	0.2046
(g/100cc)	0.2033	0.2028	0.0005	0.2030		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information — Instrument information is stored centrally.

Refer To Instrument Method: ALCOHOL_230915.GCM.gcm

Reporting of Results	Uncertainty of Measurements (UM%):	5.00%

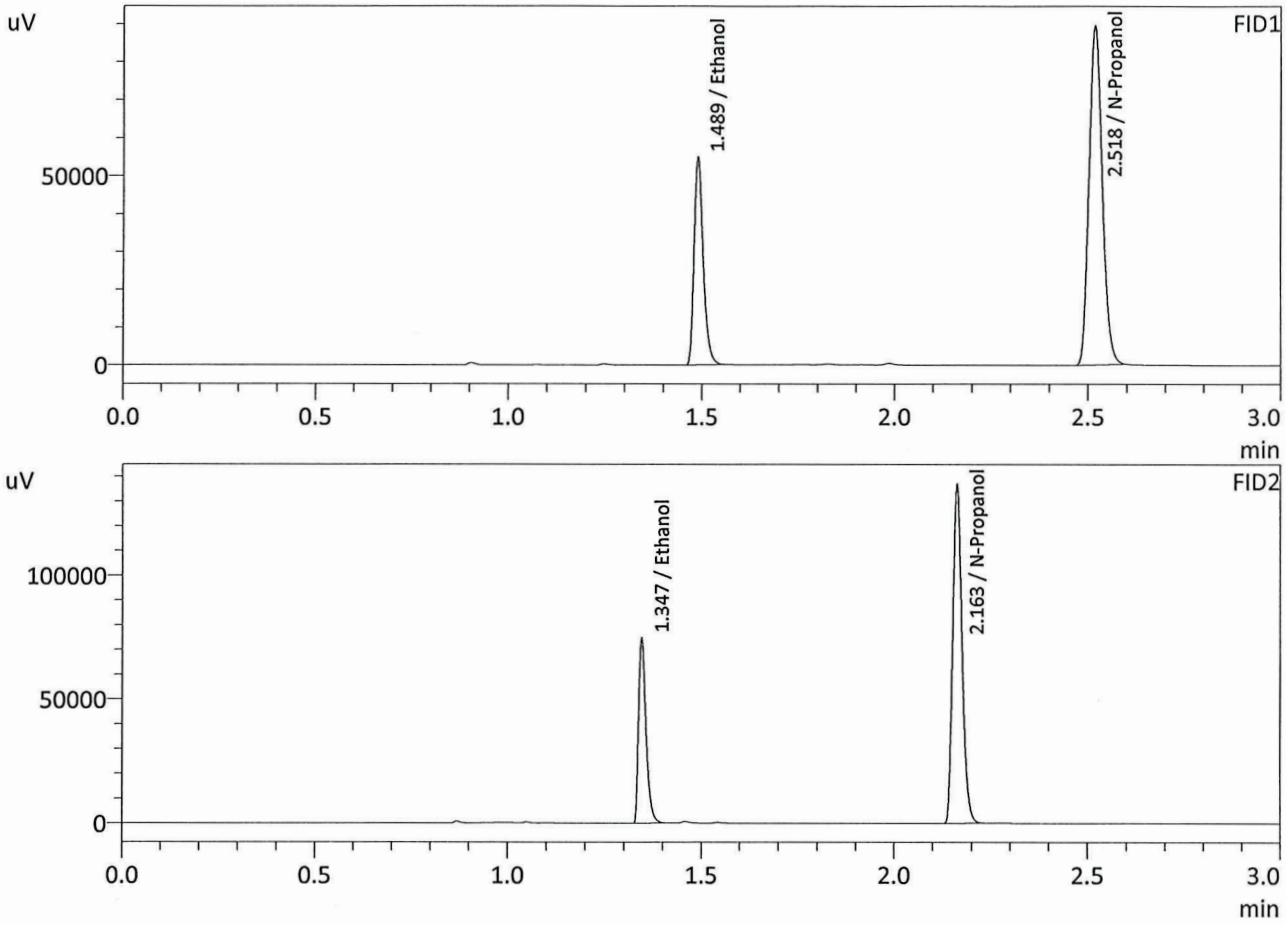
Overall Mean (g/100cc)	Low	High	5 % of Mean
0.204	0.193	0.215	0.011

Reported Results
0.204

Calibration and control data are stored centrally.

JV

Sample Name : QC-2-1
Laboratory : Meridian
Injection Date : 9/15/2023 5:38:20 PM
Vial # : 25
Method Filename : Default Project - ALCOHOL_230915.GCM.gcm
Instrument #GC/HS : C12255750548 / C12595800409



FID1

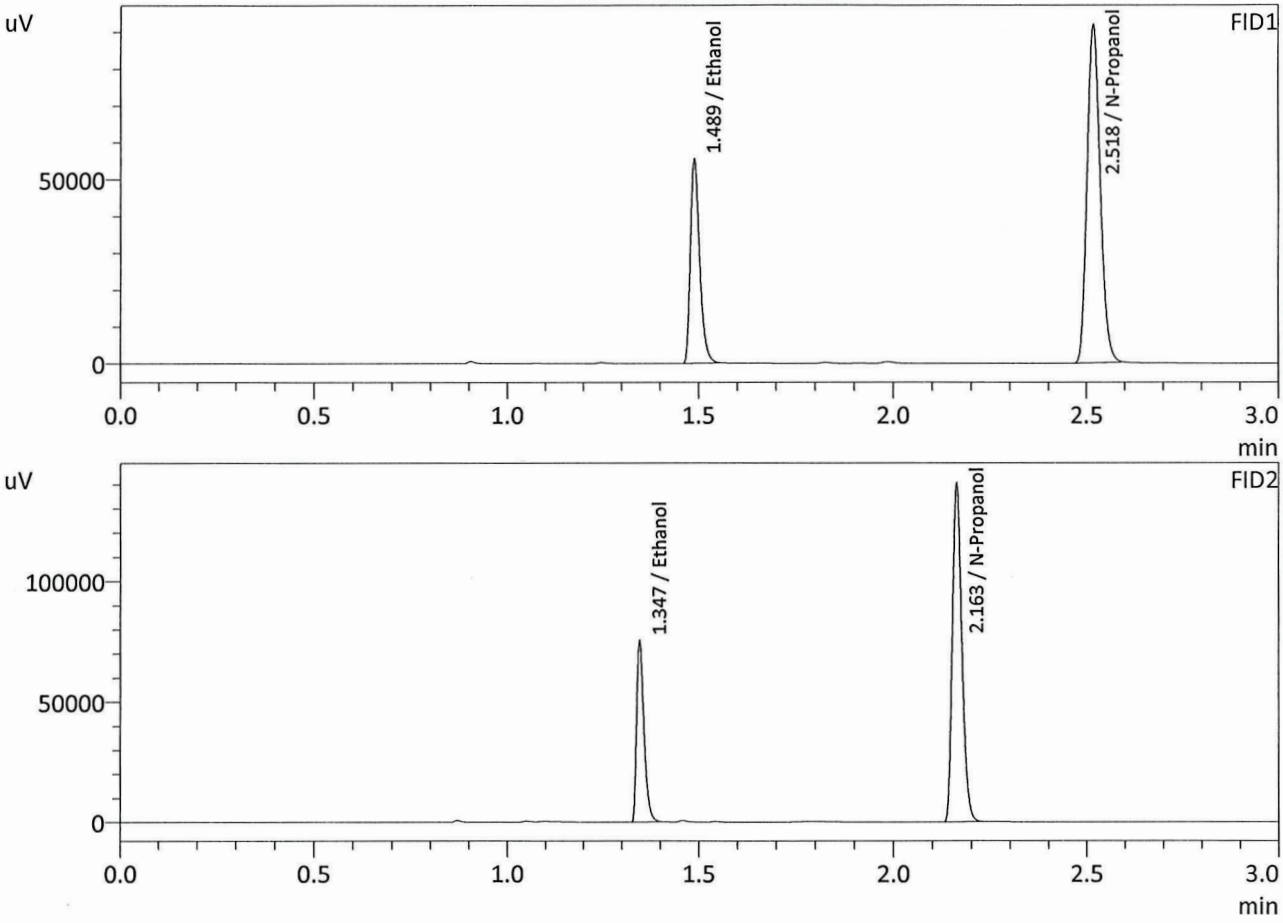
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2065	91086	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	208826	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2061	98814	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	226592	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JC

Sample Name : QC-2-1-B
Laboratory : Meridian
Injection Date : 9/15/2023 5:45:53 PM
Vial # : 26
Method Filename : Default Project - ALCOHOL_230915.GCM.gcm
Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2033	92091	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	214548	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2028	99808	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	232715	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: QC-1-2 **Analysis Date(s): 9/15/2023 8:36:32 PM(-06:00)**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0811	0.0808	0.0003	0.0809	0.0025	0.0821
(g/100cc)	0.0835	0.0833	0.0002	0.0834		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information — Instrument information is stored centrally.

Refer To Instrument Method: ALCOHOL_230915.GCM.gcm

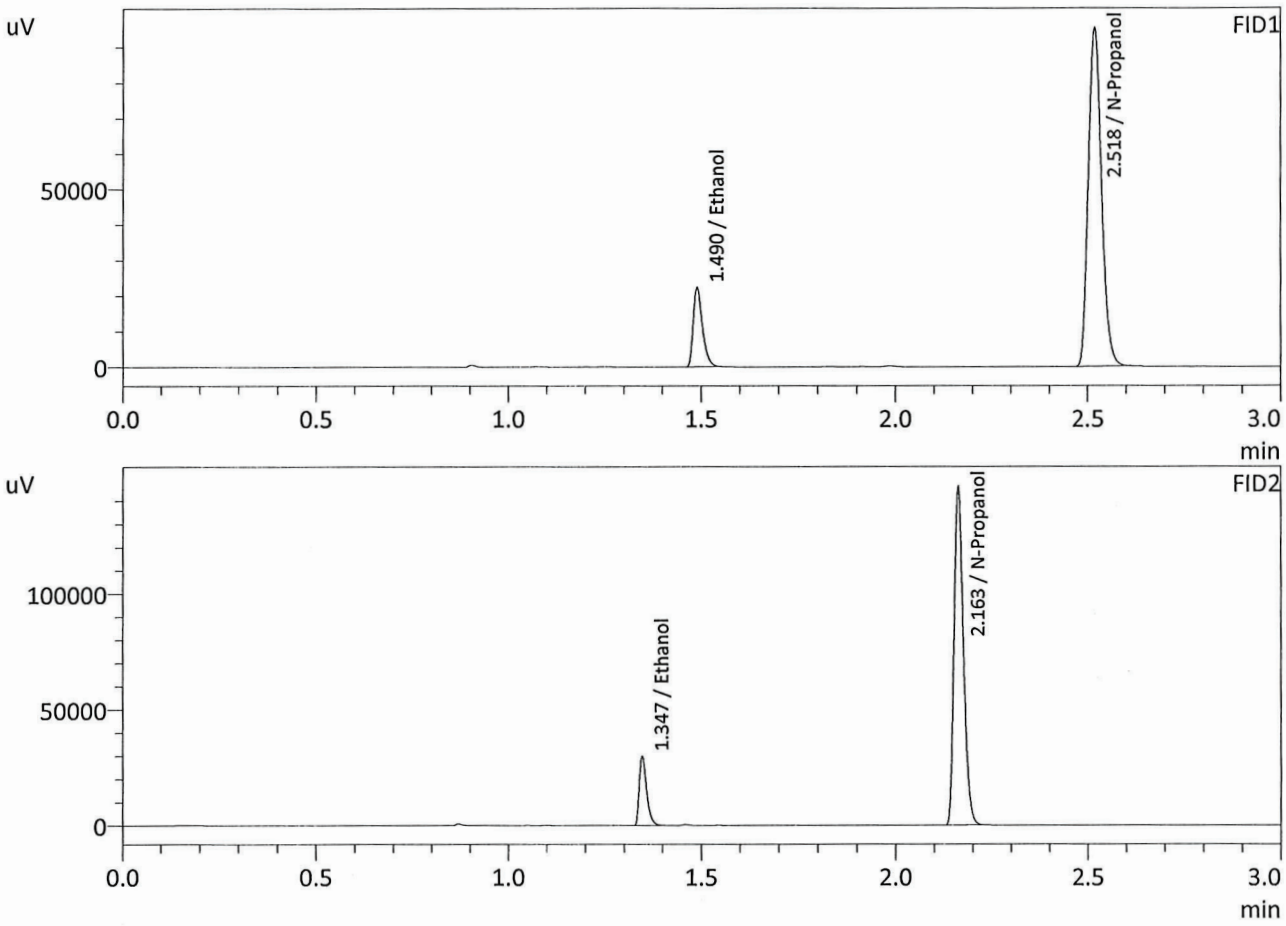
Reporting of Results	Uncertainty of Measurements (UM%):		5.00%
Overall Mean (g/100cc)	Low	High	5 % of Mean
0.082	0.077	0.087	0.005

Reported Results
0.082

Calibration and control data are stored centrally.

JL

Sample Name : QC-1-2
Laboratory : Meridian
Injection Date : 9/15/2023 8:36:32 PM
Vial # : 47
Method Filename : Default Project - ALCOHOL_230915.GCM.gcm
Instrument #GC/HS : C12255750548 / C12595800409



FID1

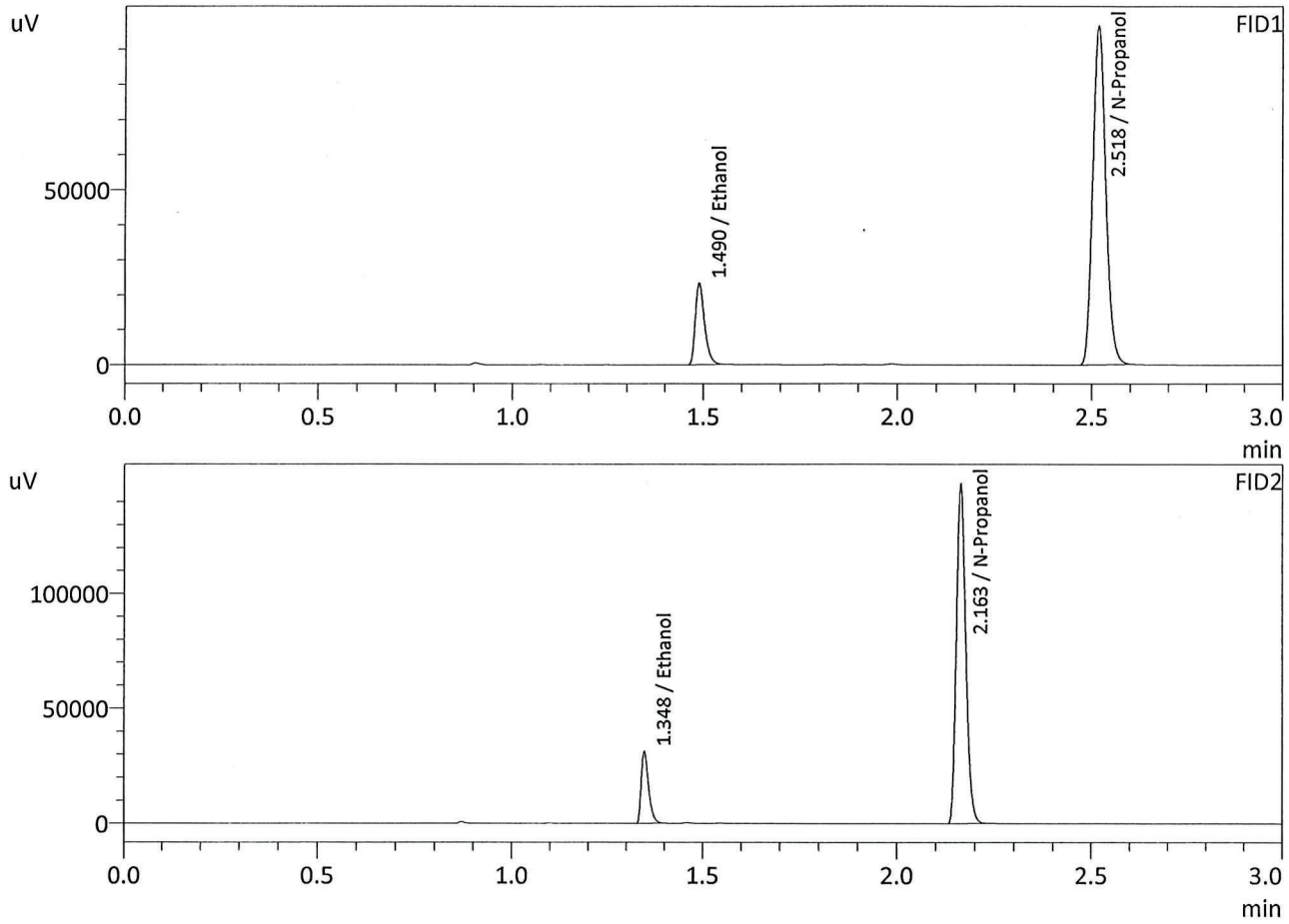
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0811	37130	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	222671	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0808	40008	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	241185	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JC

Sample Name : QC-1-2-B
Laboratory : Meridian
Injection Date : 9/15/2023 8:45:33 PM
Vial # : 48
Method Filename : Default Project - ALCOHOL_230915.GCM.gcm
Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0835	38734	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	225285	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0833	41860	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	244332	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JC

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: QC-2-2 **Analysis Date(s):** 9/15/2023 9:10:32 PM(-06:00)

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.2049	0.2048	0.0001	0.2048	0.0015	0.2056
(g/100cc)	0.2067	0.2060	0.0007	0.2063		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information — Instrument information is stored centrally.

Refer To Instrument Method: ALCOHOL_230915.GCM.gcm

Reporting of Results	Uncertainty of Measurements (UM%):	5.00%

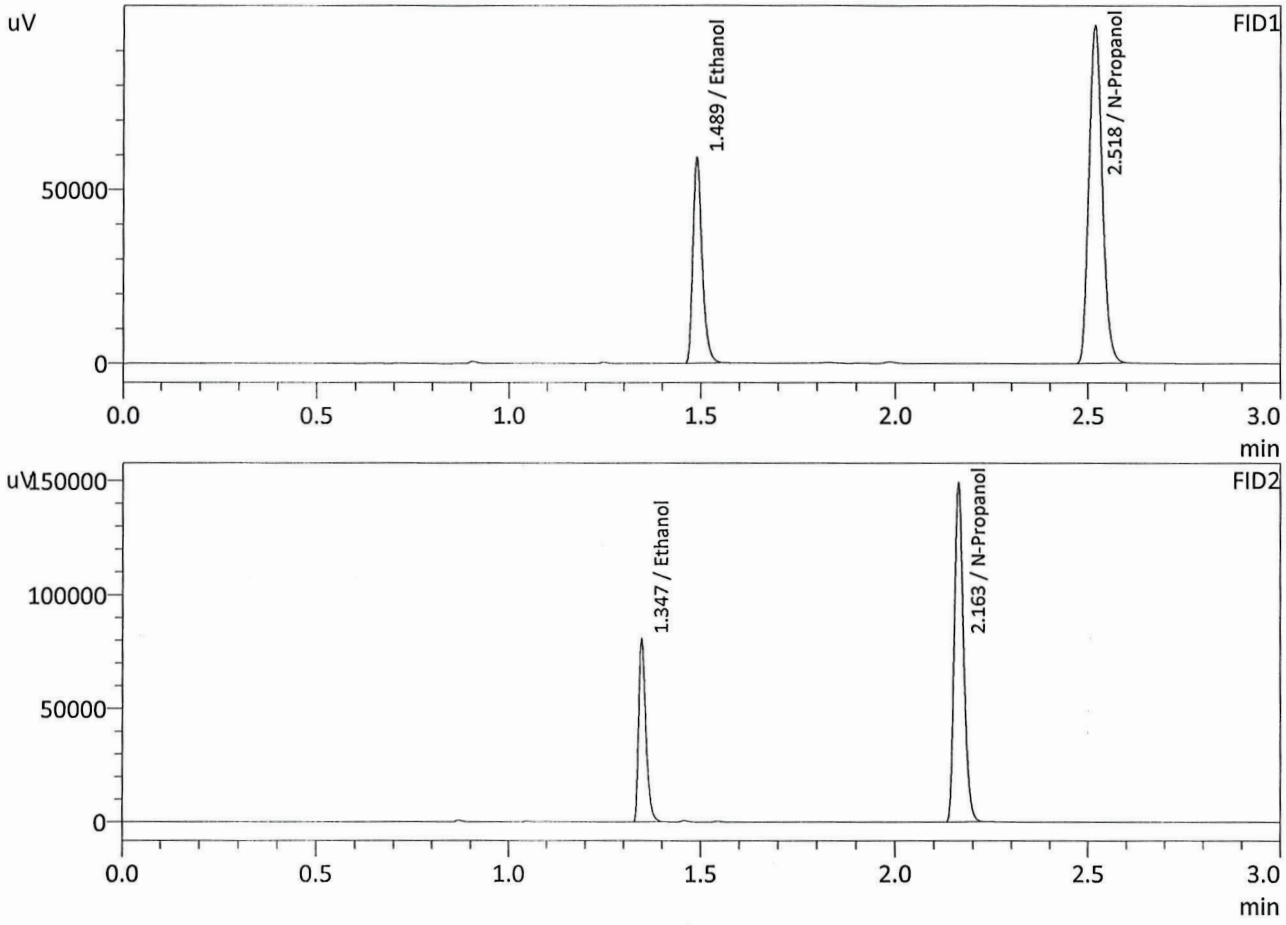
Overall Mean (g/100cc)	Low	High	5 % of Mean
0.205	0.194	0.216	0.011

Reported Results
0.205

Calibration and control data are stored centrally.

JC

Sample Name : QC-2-2
Laboratory : Meridian
Injection Date : 9/15/2023 9:10:32 PM
Vial # : 51
Method Filename : Default Project - ALCOHOL_230915.GCM.gcm
Instrument #GC/HS : C12255750548 / C12595800409



FID1

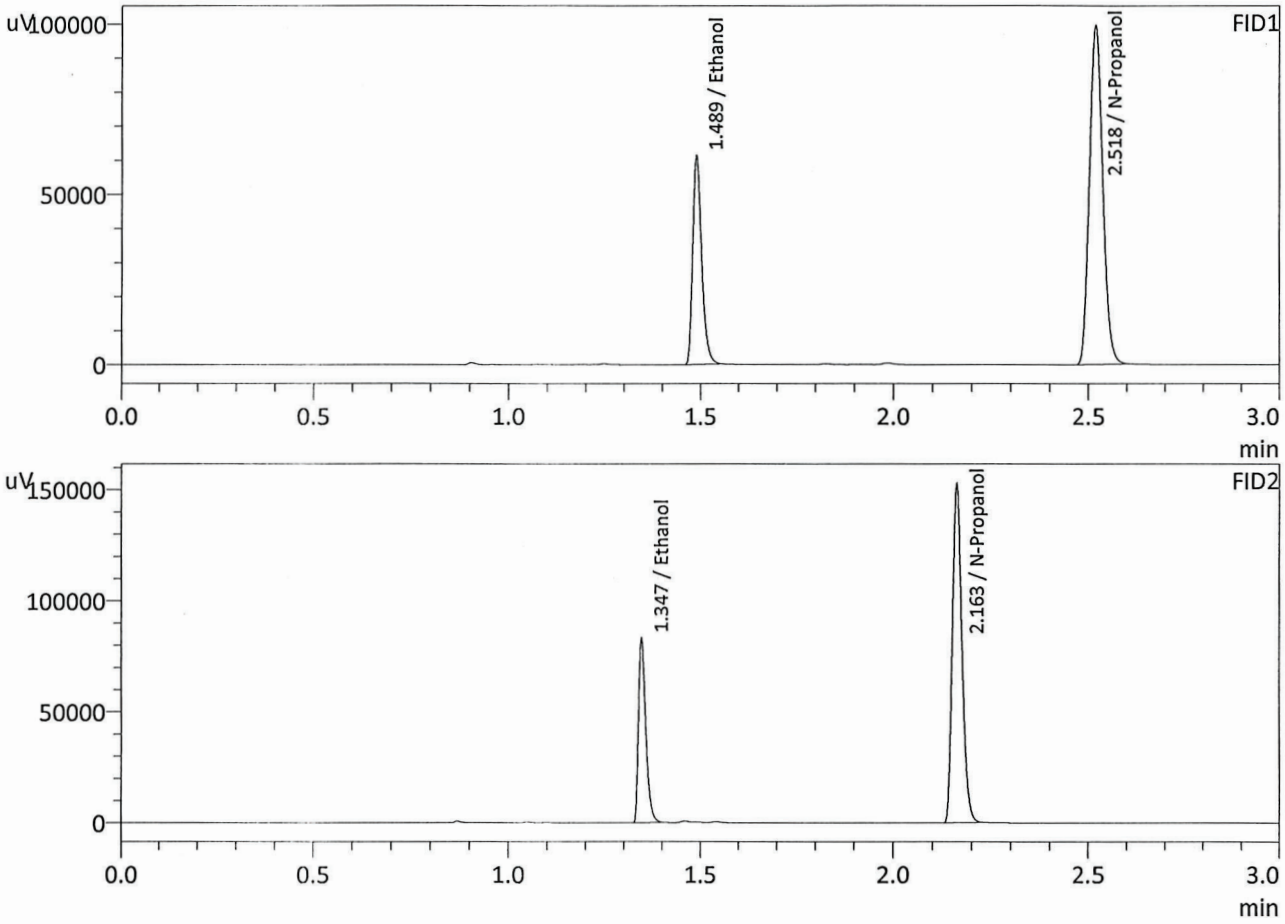
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2049	98164	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	226840	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2048	106501	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	245859	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

Sample Name : QC-2-2-B
Laboratory : Meridian
Injection Date : 9/15/2023 9:17:42 PM
Vial # : 52
Method Filename : Default Project - ALCOHOL_230915.GCM.gcm
Instrument #GC/HS : C12255750548 / C12595800409



FID1

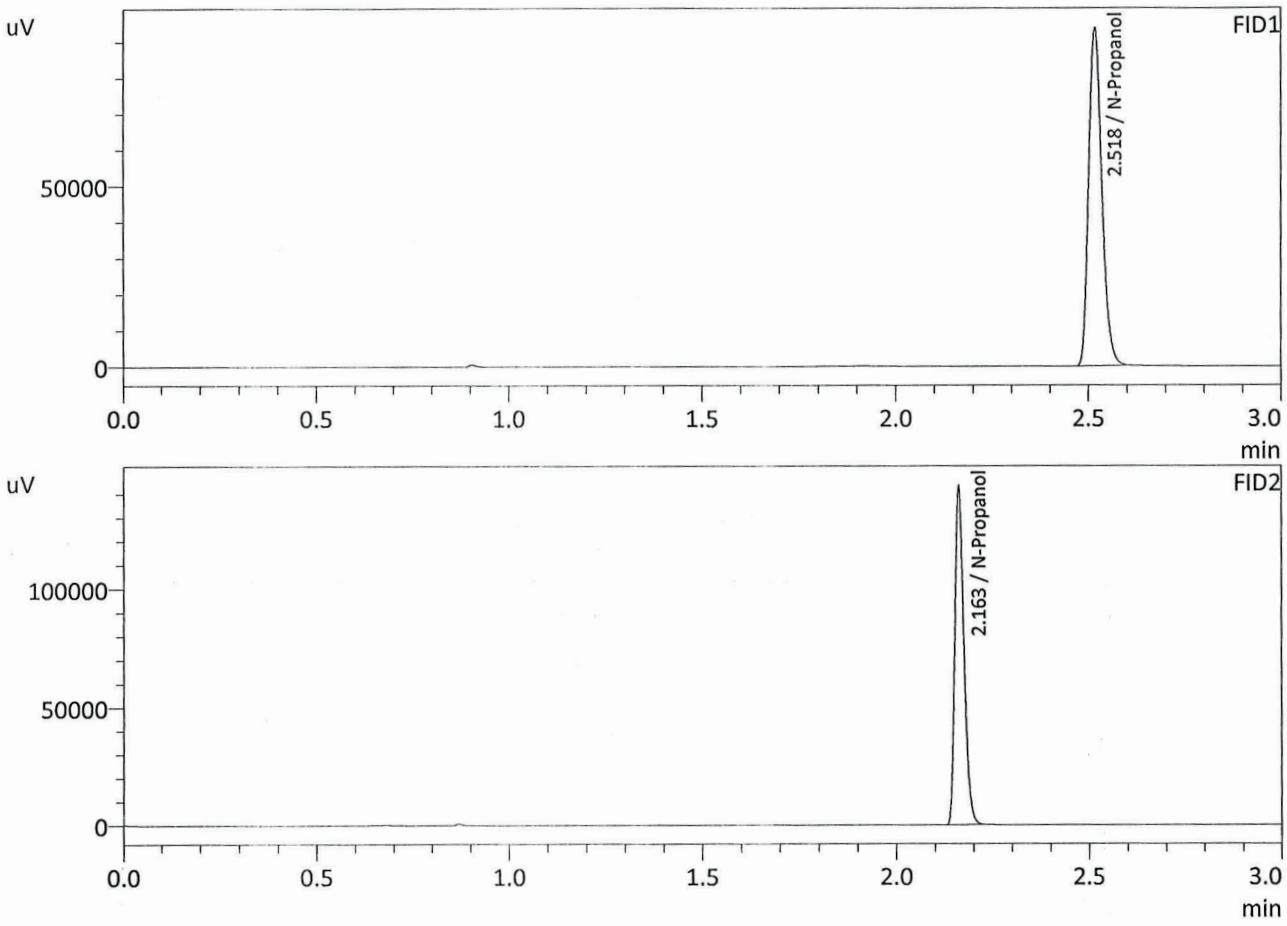
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2067	101541	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	232587	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2060	110114	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	252719	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JV

Sample Name : ISTD BLK 2
Laboratory : Meridian
Injection Date : 9/15/2023 9:26:22 PM
Vial # : 53
Method Filename : Default Project - ALCOHOL_230915.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	219087	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	237431	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JC

Meridian Blood Alcohol Analysis Batch Table

Shimadzu GC-2030 Serial #C12255750548
Shimadzu HS-20 Serial #C12595800409
Lab Solutions Database Software Ver. 6.111

Vial#	Sample Name	Sample Type	Level#	Method File
1	ISTD BLK 1	0:Unknown	0	ALCOHOL 230915.GCM.gcm
2	ED VOLATILES FN 0604	0:Unknown	1	ALCOHOL 230915.GCM.gcm
3	QC-1-1	0:Unknown	0	ALCOHOL 230915.GCM.gcm
4	QC-1-1-B	0:Unknown	0	ALCOHOL 230915.GCM.gcm
5	0.08 QA	0:Unknown	0	ALCOHOL 230915.GCM.gcm
6	0.08 QA-B	0:Unknown	0	ALCOHOL 230915.GCM.gcm
7	M2023-3835-1	0:Unknown	0	ALCOHOL 230915.GCM.gcm
8	M2023-3835-1-B	0:Unknown	0	ALCOHOL 230915.GCM.gcm
9	M2023-3835-2	0:Unknown	0	ALCOHOL 230915.GCM.gcm
10	M2023-3835-2-B	0:Unknown	0	ALCOHOL 230915.GCM.gcm
11	M2023-3835-3	0:Unknown	0	ALCOHOL 230915.GCM.gcm
12	M2023-3835-3-B	0:Unknown	0	ALCOHOL 230915.GCM.gcm
13	M2023-3835-4	0:Unknown	0	ALCOHOL 230915.GCM.gcm
14	M2023-3835-4-B	0:Unknown	0	ALCOHOL 230915.GCM.gcm
15	M2023-3853-1	0:Unknown	0	ALCOHOL 230915.GCM.gcm
16	M2023-3853-1-B	0:Unknown	0	ALCOHOL 230915.GCM.gcm
17	M2023-3857-1	0:Unknown	0	ALCOHOL 230915.GCM.gcm
18	M2023-3857-1-B	0:Unknown	0	ALCOHOL 230915.GCM.gcm
19	M2023-3863-1	0:Unknown	0	ALCOHOL 230915.GCM.gcm
20	M2023-3863-1-B	0:Unknown	0	ALCOHOL 230915.GCM.gcm
21	M2023-3868-1	0:Unknown	0	ALCOHOL 230915.GCM.gcm
22	M2023-3868-1-B	0:Unknown	0	ALCOHOL 230915.GCM.gcm
23	M2023-3884-1	0:Unknown	0	ALCOHOL 230915.GCM.gcm
24	M2023-3884-1-B	0:Unknown	0	ALCOHOL 230915.GCM.gcm
25	QC-2-1	0:Unknown	0	ALCOHOL 230915.GCM.gcm
26	QC-2-1-B	0:Unknown	0	ALCOHOL 230915.GCM.gcm
27	M2023-3890-1	0:Unknown	0	ALCOHOL 230915.GCM.gcm
28	M2023-3890-1-B	0:Unknown	0	ALCOHOL 230915.GCM.gcm
29	M2023-3897-1	0:Unknown	0	ALCOHOL 230915.GCM.gcm
30	M2023-3897-1-B	0:Unknown	0	ALCOHOL 230915.GCM.gcm
31	M2023-3934-1	0:Unknown	0	ALCOHOL 230915.GCM.gcm
32	M2023-3934-1-B	0:Unknown	0	ALCOHOL 230915.GCM.gcm
33	M2023-3938-1	0:Unknown	0	ALCOHOL 230915.GCM.gcm
34	M2023-3938-1-B	0:Unknown	0	ALCOHOL 230915.GCM.gcm
35	M2023-3949-1	0:Unknown	0	ALCOHOL 230915.GCM.gcm
36	M2023-3949-1-B	0:Unknown	0	ALCOHOL 230915.GCM.gcm
37	M2023-3960-1	0:Unknown	0	ALCOHOL 230915.GCM.gcm
38	M2023-3960-1-B	0:Unknown	0	ALCOHOL 230915.GCM.gcm
39	M2023-3980-1	0:Unknown	0	ALCOHOL 230915.GCM.gcm
40	M2023-3980-1-B	0:Unknown	0	ALCOHOL 230915.GCM.gcm
41	M2023-3982-1	0:Unknown	0	ALCOHOL 230915.GCM.gcm
42	M2023-3982-1-B	0:Unknown	0	ALCOHOL 230915.GCM.gcm
43	M2023-3990-1	0:Unknown	0	ALCOHOL 230915.GCM.gcm
44	M2023-3990-1-B	0:Unknown	0	ALCOHOL 230915.GCM.gcm
45	M2023-3991-1	0:Unknown	0	ALCOHOL 230915.GCM.gcm
46	M2023-3991-1-B	0:Unknown	0	ALCOHOL 230915.GCM.gcm
47	QC-1-2	0:Unknown	0	ALCOHOL 230915.GCM.gcm
48	QC-1-2-B	0:Unknown	0	ALCOHOL 230915.GCM.gcm
49	M2023-4003-1	0:Unknown	0	ALCOHOL 230915.GCM.gcm
50	M2023-4003-1-B	0:Unknown	0	ALCOHOL 230915.GCM.gcm
51	QC-2-2	0:Unknown	0	ALCOHOL 230915.GCM.gcm
52	QC-2-2-B	0:Unknown	0	ALCOHOL 230915.GCM.gcm
53	ISTD BLK 2	0:Unknown	0	ALCOHOL 230915.GCM.gcm

JG