NB

Quantitative Analysis for Ethanol & Qualitative Analysis for Other Volatiles

Analytical Method(s): 1.0

Device: Hamilton MICROLAB Liquid Processor/Dilutor *Serial Number:* *ML600HC11378*

Volatiles Quality Assurance Controls **Run Date(s):** 9/29/25

Calibration Date: *(if different)* 9/17/25

Worklist #: 7267

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	May-27	2302199	0.0837	0.0754-0.0920	0.0808 g/100cc
					0.0796 g/100cc
					g/100cc
Level 2	May-27	2302120	0.2054	0.1849-0.2259	0.2039 g/100cc
					g/100cc
					g/100cc
Multi-Component mixture:	**Exp:**	**May 2028**	**Lot #**	FN05302307	
Curve Fit:		Column 1	0.99977	Column2	0.99976

Ethanol Calibration Reference Material

Calibrator level	Target Value	Acceptable Range	Column 1	Column 2	Precision	Mean
50	0.050	0.045 - 0.055	0.0468	0.0469	1E-04	0.0468
100	0.100	0.090 - 0.110	0.1041	0.1044	0.0003	0.1042
200	0.200	0.180 - 0.220	0.1987	0.1987	0	0.1987
300	0.300	0.270 - 0.330	0.3007	0.2998	0.0009	0.3002
400	0.400	0.360 - 0.440	N/A	N/A	########	#DIV/0!
500	0.500	0.450 - 0.550	0.4995	0.5000	0.0005	0.4997

Aqueous Controls

Control level	Target Value	Acceptable Range	Overall Results
80	0.080	0.076 - 0.084	0.078 g/100cc

JG

Internal Standard Monitoring Worksheet

Worklist #:	7267	Run Date(s):	9/29/25

Internal Standard Solution:	Prep Date: 9/5/2025	Exp Date: 3/5/2026

Sample Name	Column 1 Value	Column 2 Value
0.080	170473	181255
0.080	171839	182492
QC1	184873	197268
QC1	174737	185858
QC1	185154	197601
QC1	180001	191897
QC1		
QC1		
QC2	181518	193374
QC2	185131	197272
QC2		
QC2		
QC2		
QC2		

	Average	(-)20%	(+)20%
Column 1	179215.8	143372.6	215058.9
Column 2	190877.1	152701.7	229052.6

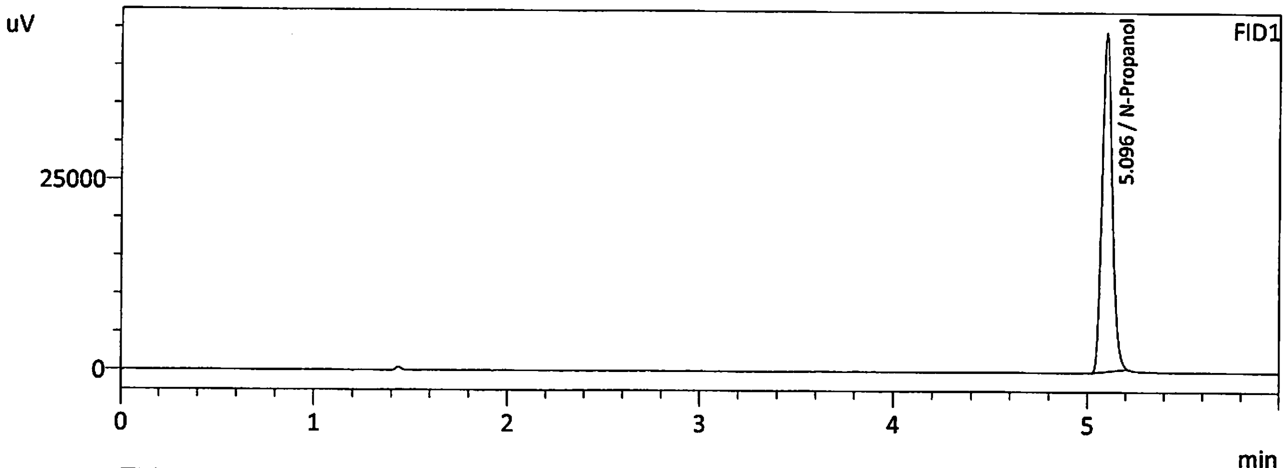
JC

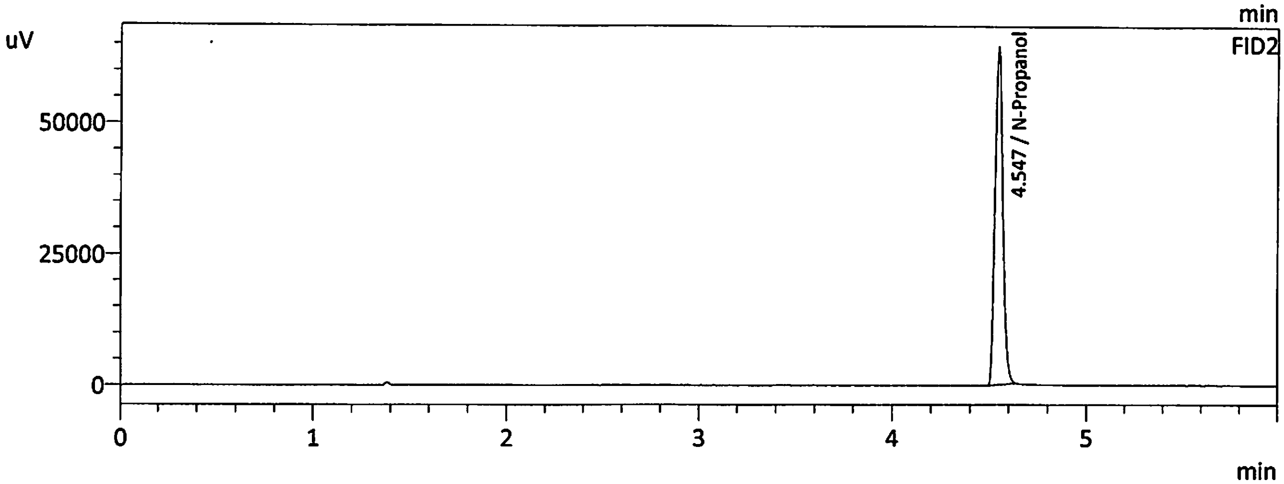
Worklist: 7267

LAB CASE	ITEM	ITEM TYPE	DESCRIPTION
M2025-3800	1	BCK	Alcohol Analysis
M2025-3860	2	BCK	BATS Proficiency Test
M2025-3883	1	BCK	Alcohol Analysis

JG

Sample Name : ISTD BLK 1
Laboratory : Meridian
Injection Date : 9/29/2025 11:35:41 AM
Vial # : 1
Method Filename : Default Project - ALCOHOL_250917JG.gcm
Instrument #GC/HS : C12255750548 / C12595800409





FID1

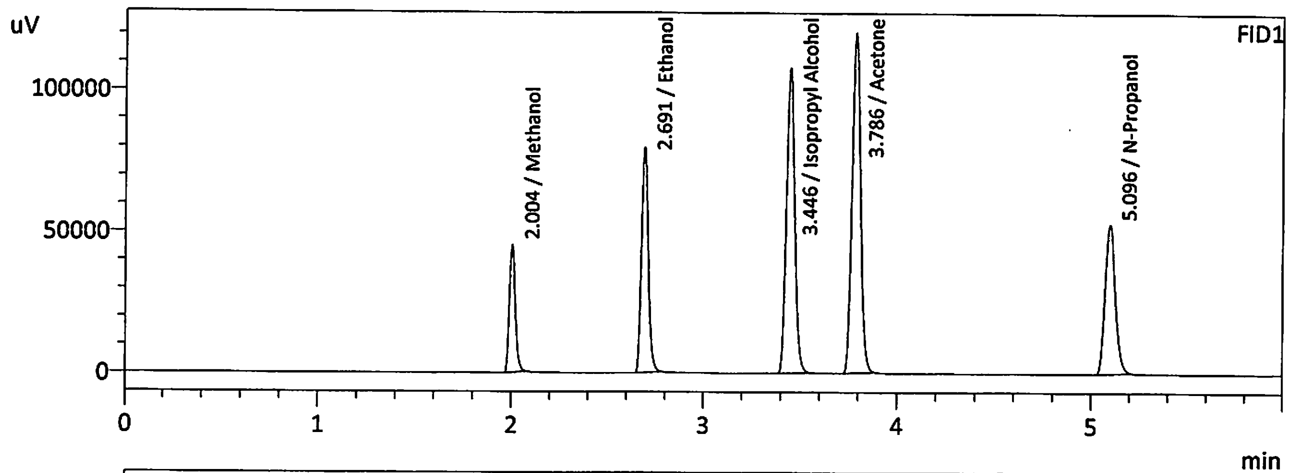
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	168828	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

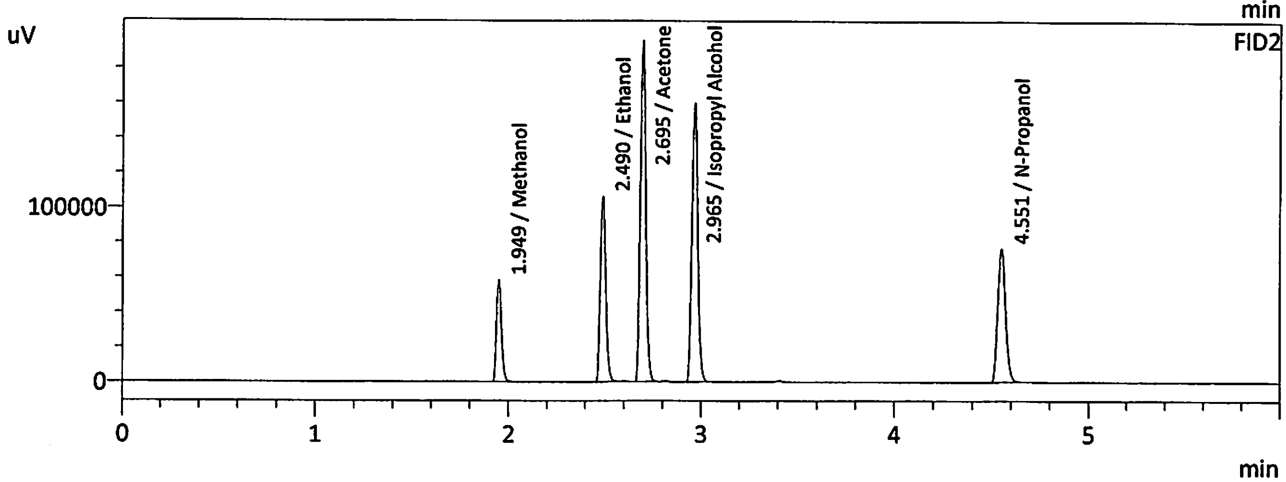
FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	179577	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

Sample Name : MIXED VOLATILES FN 05302307
Laboratory : Meridian
Injection Date : 9/29/2025 11:48:25 AM
Vial # : 2
Method Filename : Default Project - ALCOHOL_250917JG.gcm
Instrument #GC/HS : C12255750548 / C12595800409





FID1

Name	Conc.	Area	Unit
Methanol	0.0000	95939	g/100cc
Ethanol	0.4539	194203	g/100cc
Isopropyl Alcohol	0.0000	319642	g/100cc
Acetone	0.0000	362766	g/100cc
N-Propanol	0.0000	201036	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	0.0000	104701	g/100cc
Ethanol	0.4566	207047	g/100cc
Acetone	0.0000	385803	g/100cc
Isopropyl Alcohol	0.0000	335871	g/100cc
N-Propanol	0.0000	212995	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: QC-1-1 **Analysis Date(s): 9/29/2025 12:00:36 PM(-06:00)**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0827	0.0830	0.0003	0.0828	0.0040	0.0808
(g/100cc)	0.0787	0.0789	0.0002	0.0788		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

Refer To Instrument Method: ALCOHOL_250917JG.gcm

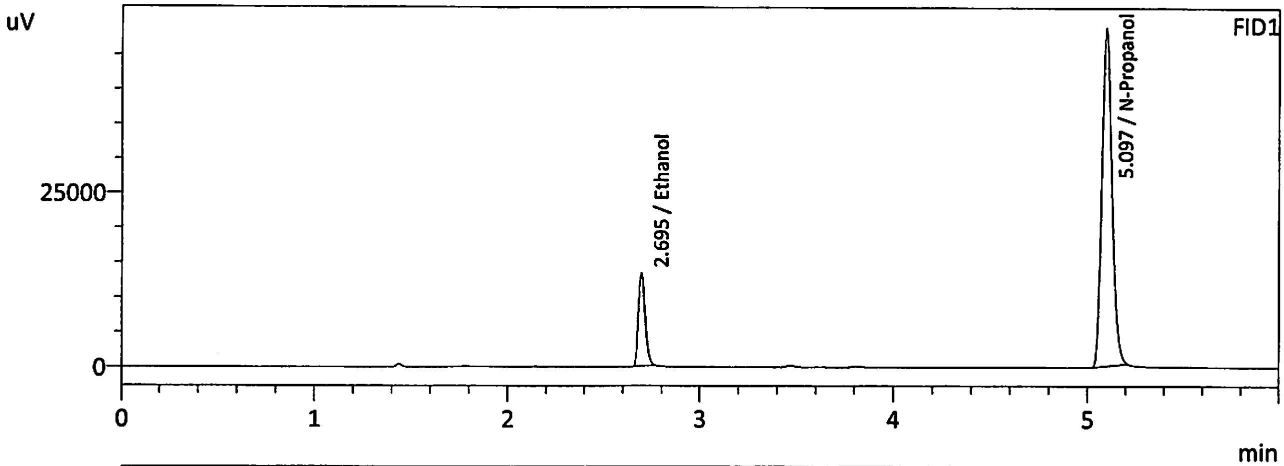
Reporting of Results	Uncertainty of Measurements (UM%):		5.00%
Overall Mean (g/100cc)	Low	High	5 % of Mean
0.080	0.076	0.084	0.004

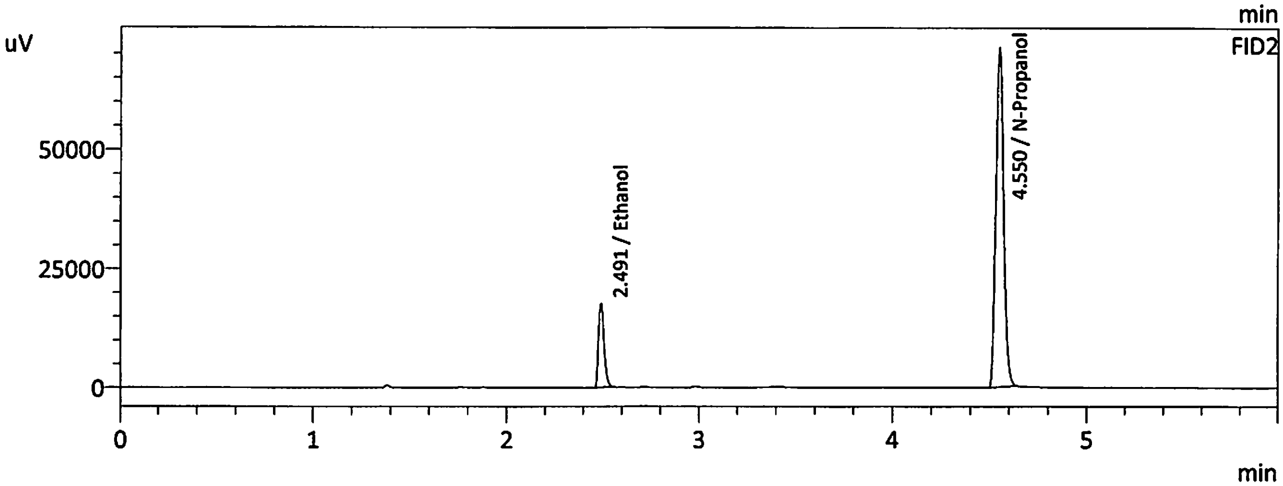
	Reported Results	
	0.080	

Calibration and control data are stored centrally.

Jl

Sample Name : QC-1-1
Laboratory : Meridian
Injection Date : 9/29/2025 12:00:36 PM
Vial # : 3
Method Filename : Default Project - ALCOHOL_250917JG.gcm
Instrument #GC/HS : C12255750548 / C12595800409





FID1

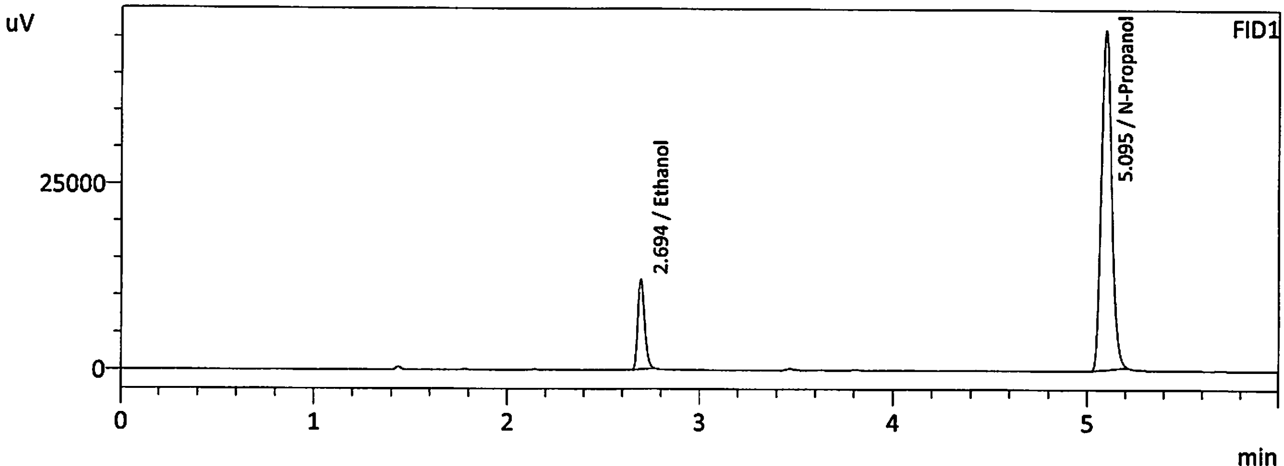
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0827	32630	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	184873	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

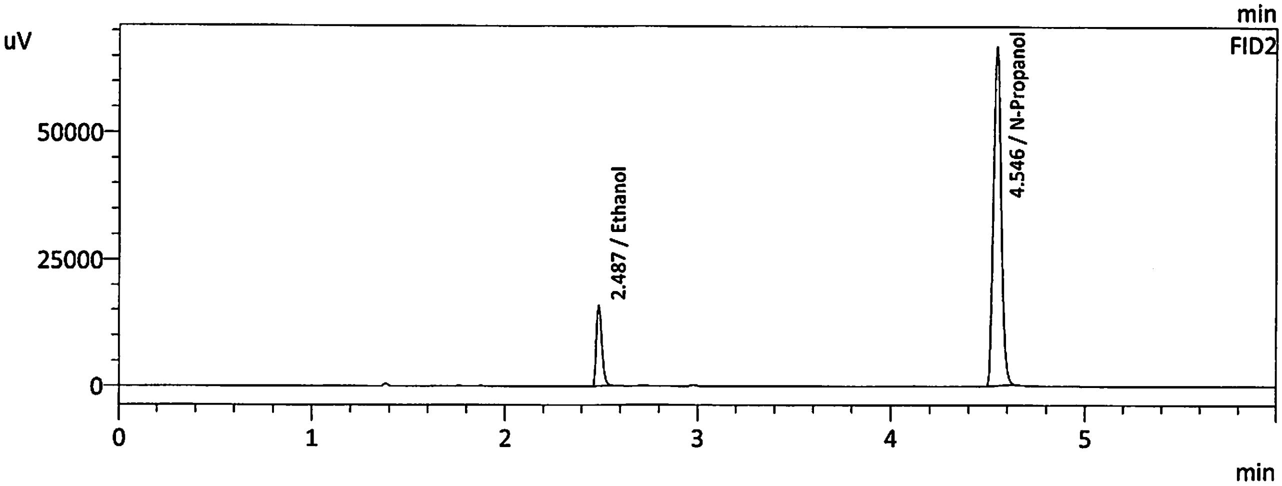
FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0830	35056	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	197268	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JC

Sample Name : QC-1-1-B
Laboratory : Meridian
Injection Date : 9/29/2025 12:12:58 PM
Vial # : 4
Method Filename : Default Project - ALCOHOL_250917JG.gcm
Instrument #GC/HS : C12255750548 / C12595800409





FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0787	29356	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	174737	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0789	31408	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	185858	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: 0.08 QA **Analysis Date(s): 9/29/2025 12:25:11 PM(-06:00)**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0795	0.0796	0.0001	0.0795	0.0023	0.0784
(g/100cc)	0.0772	0.0773	0.0001	0.0772		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

Refer To Instrument Method: ALCOHOL_250917JG.gcm

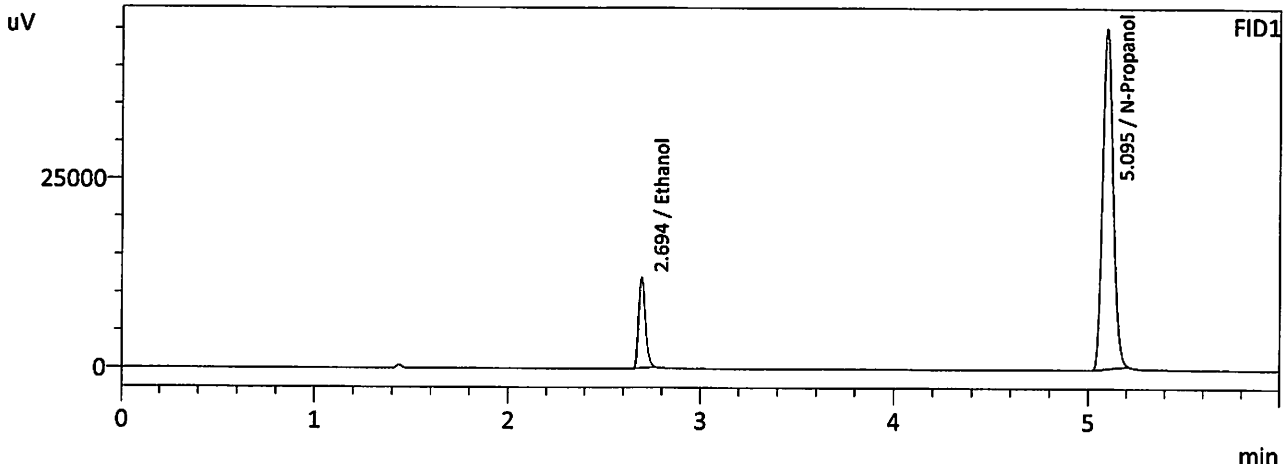
Reporting of Results	Uncertainty of Measurements (UM%):		5.00%
Overall Mean (g/100cc)	Low	High	5 % of Mean
0.078	0.074	0.082	0.004

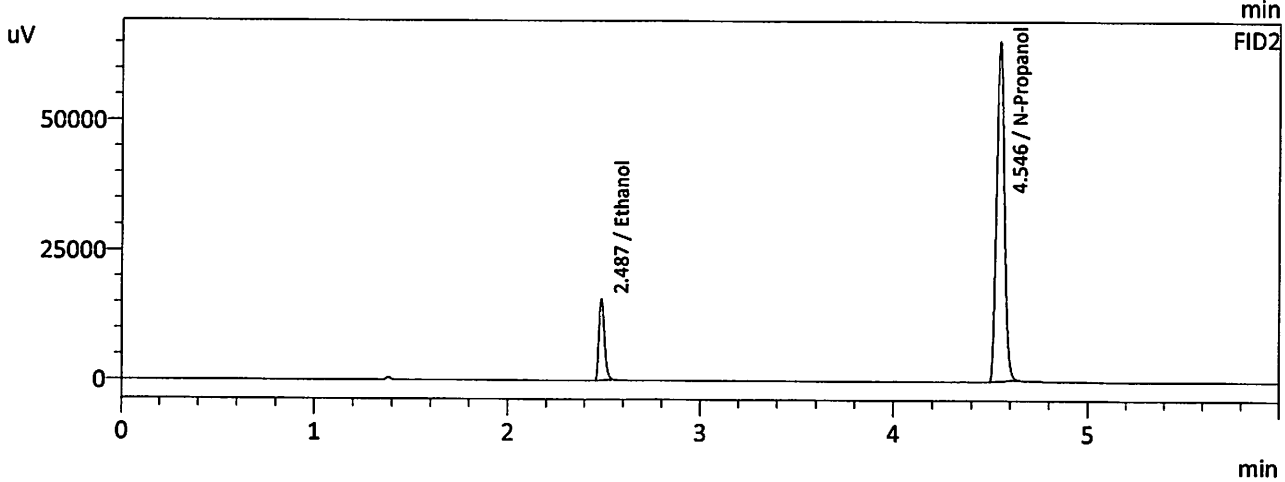
	Reported Results	
	0.078	

Calibration and control data are stored centrally.

JG

Sample Name : 0.08 QA
Laboratory : Meridian
Injection Date : 9/29/2025 12:25:11 PM
Vial # : 5
Method Filename : Default Project - ALCOHOL_250917JG.gcm
Instrument #GC/HS : C12255750548 / C12595800409





FID1

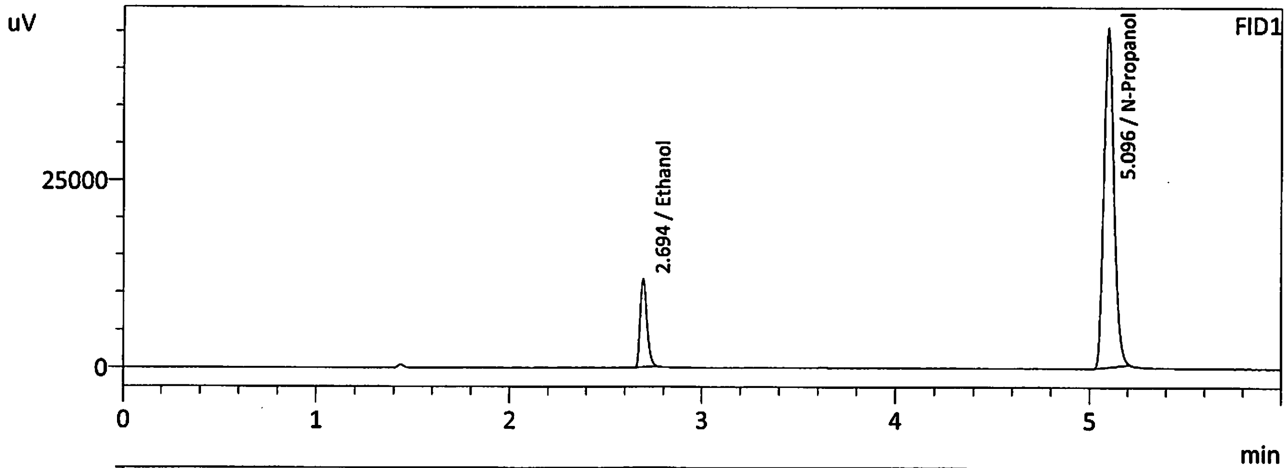
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0795	28924	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	170473	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

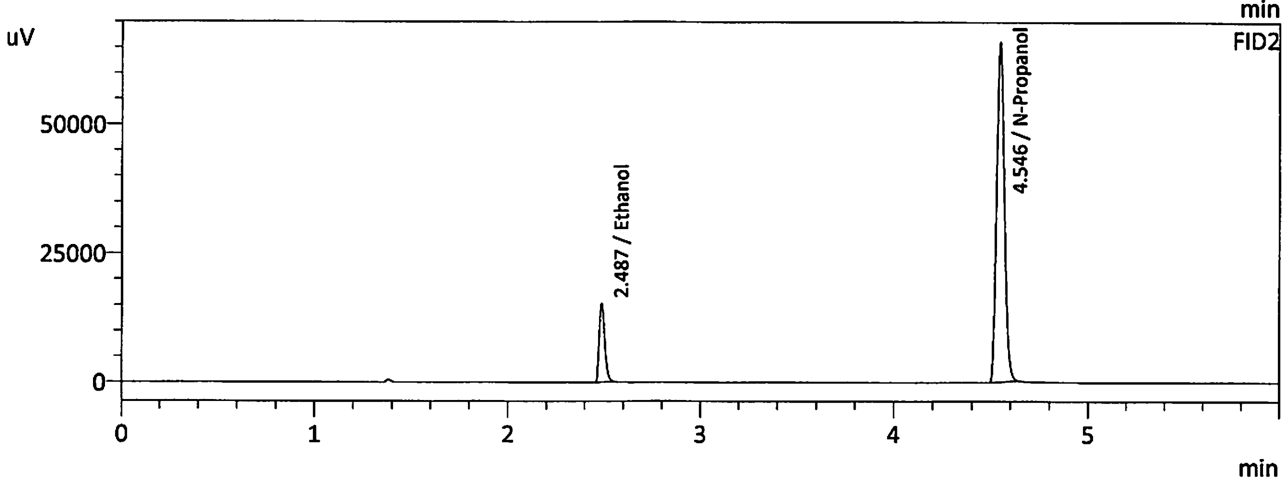
FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0796	30873	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	181255	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JC

Sample Name : 0.08 QA-B
Laboratory : Meridian
Injection Date : 9/29/2025 12:37:50 PM
Vial # : 6
Method Filename : Default Project - ALCOHOL_250917JG.gcm
Instrument #GC/HS : C12255750548 / C12595800409





FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0772	28339	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	171839	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0773	30197	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	182492	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: QC-2-1 **Analysis Date(s): 9/29/2025 2:04:18 PM(-06:00)**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.1995	0.2009	0.0014	0.2002	0.0074	0.2039
(g/100cc)	0.2069	0.2083	0.0014	0.2076		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

Refer To Instrument Method: ALCOHOL_250917JG.gcm

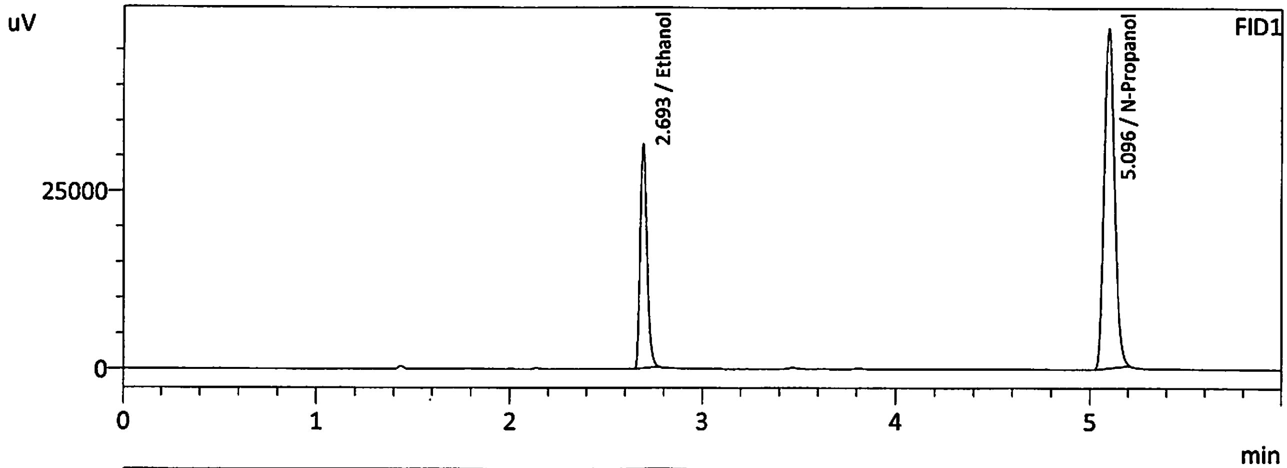
Reporting of Results	Uncertainty of Measurements (UM%):		5.00%
Overall Mean (g/100cc)	Low	High	5 % of Mean
0.203	0.192	0.214	0.011

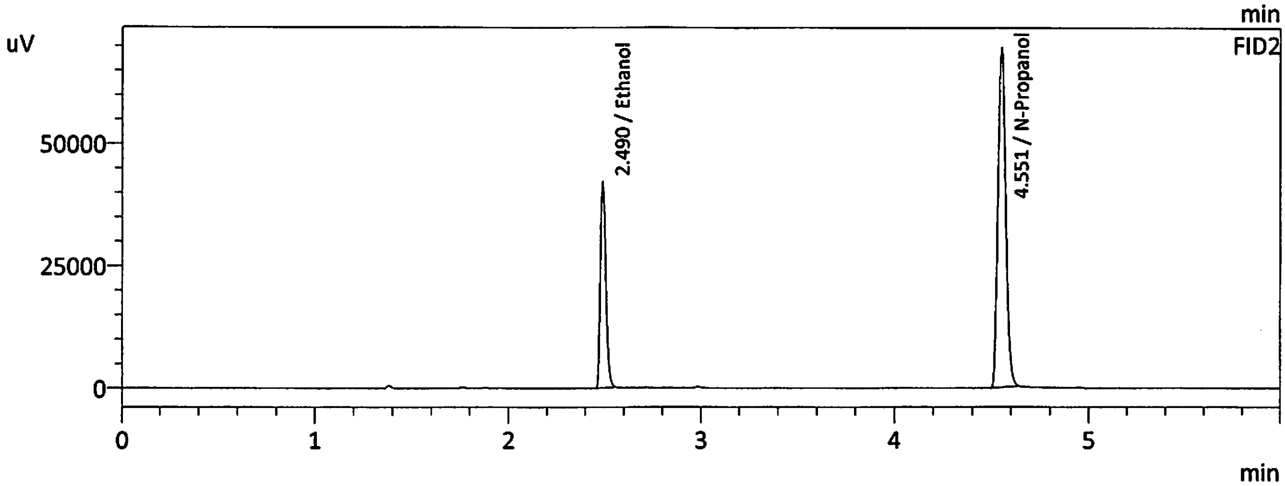
	Reported Results	
	0.203	

Calibration and control data are stored centrally.

JG

Sample Name : QC-2-1
Laboratory : Meridian
Injection Date : 9/29/2025 2:04:18 PM
Vial # : 13
Method Filename : Default Project - ALCOHOL_250917JG.gcm
Instrument #GC/HS : C12255750548 / C12595800409





FID1

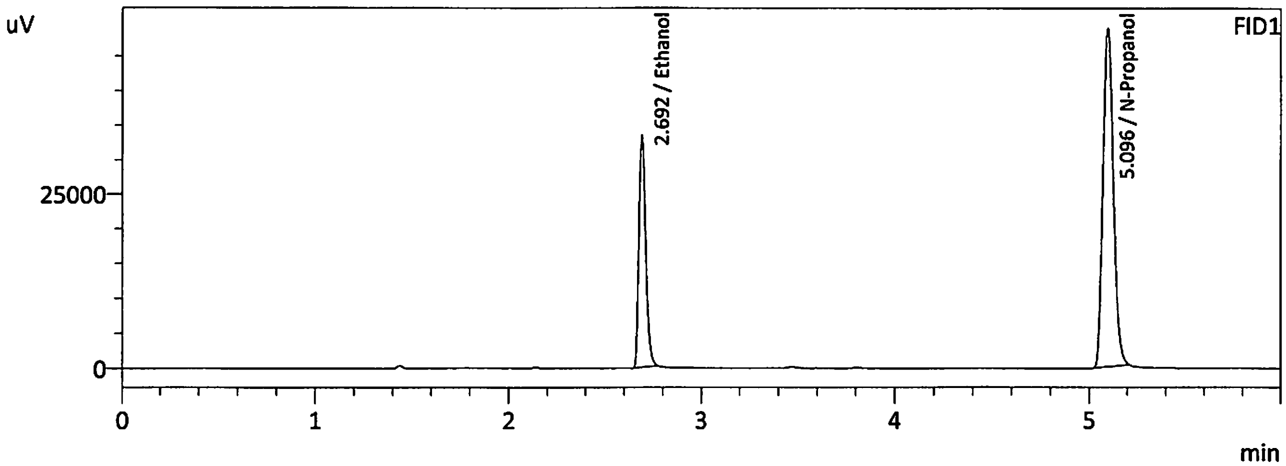
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1995	77135	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	181518	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

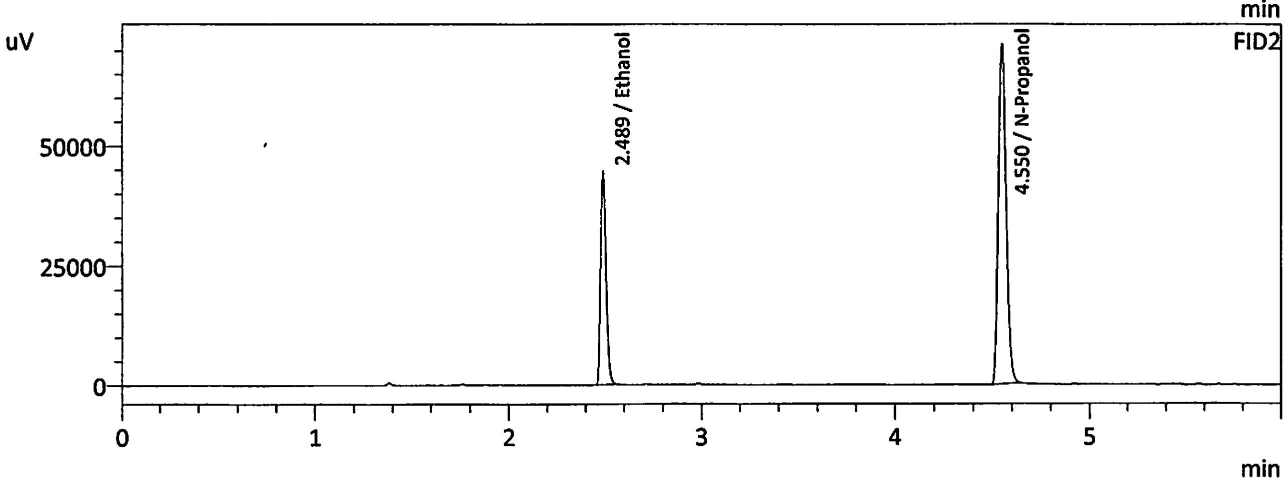
FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2009	82842	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	193374	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JC

Sample Name : QC-2-1-B
Laboratory : Meridian
Injection Date : 9/29/2025 2:16:49 PM
Vial # : 14
Method Filename : Default Project - ALCOHOL_250917JG.gcm
Instrument #GC/HS : C12255750548 / C12595800409





FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2069	81572	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	185131	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2083	87592	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	197272	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

Jb

VOLATILES DETERMINATION CASEFILE WORKSHEET

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: QC-1-2 **Analysis Date(s): 9/29/2025 2:28:51 PM(-06:00)**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0805	0.0810	0.0005	0.0807	0.0021	0.0796
(g/100cc)	0.0783	0.0789	0.0006	0.0786		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information **Instrument information is stored centrally.**

Refer To Instrument Method: ALCOHOL_250917JG.gcm

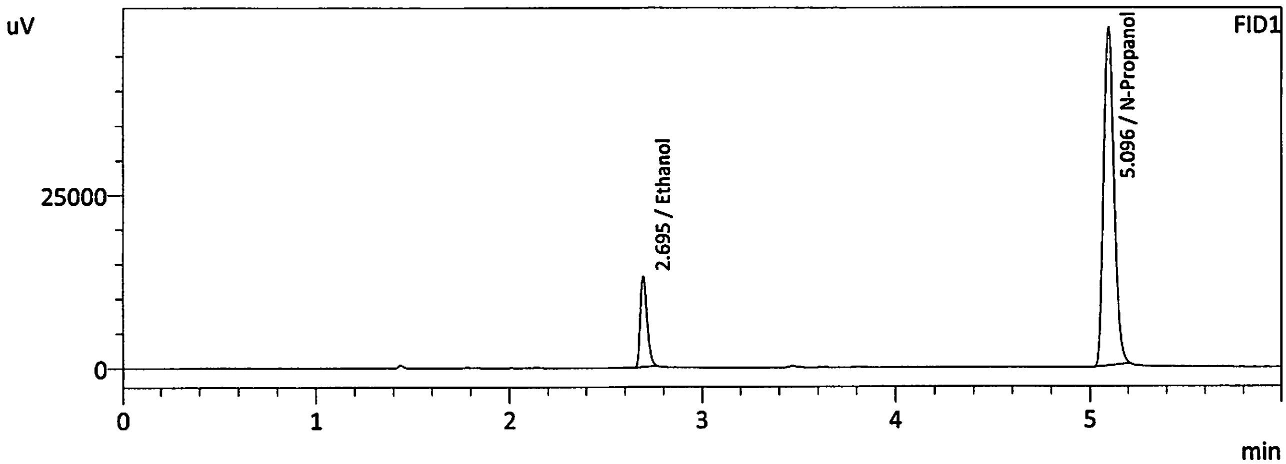
Reporting of Results	Uncertainty of Measurements (UM%):		5.00%
Overall Mean (g/100cc)	Low	High	5 % of Mean
0.079	0.075	0.083	0.004

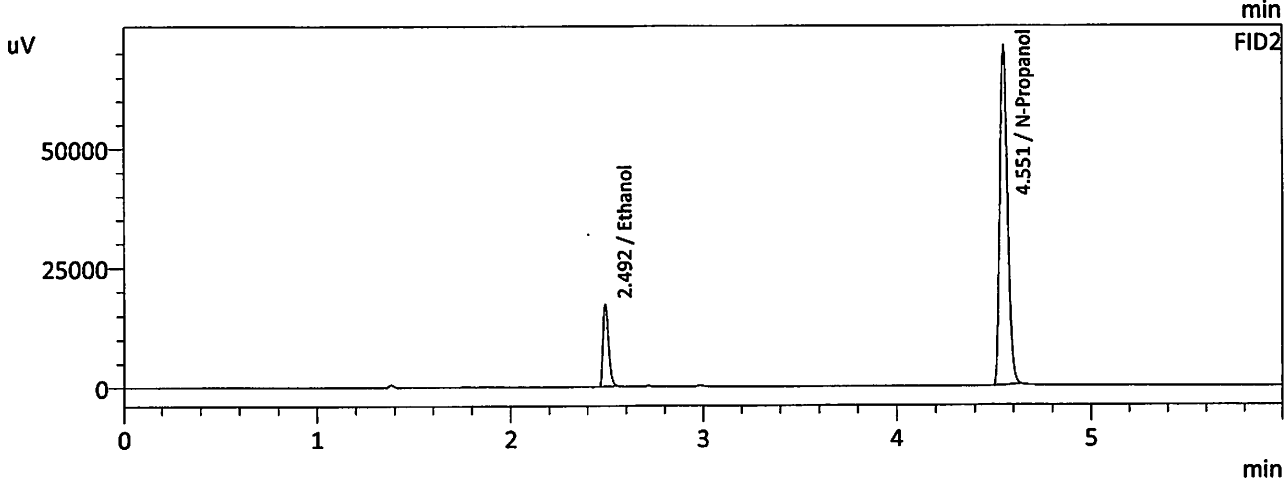
	Reported Results	
	0.079	

Calibration and control data are stored centrally.

JC

Sample Name	: QC-1-2
Laboratory	: Meridian
Injection Date	: 9/29/2025 2:28:51 PM
Vial #	: 15
Method Filename	: Default Project - ALCOHOL_250917JG.gcm
Instrument #GC/HS	: C12255750548 / C12595800409





FID1

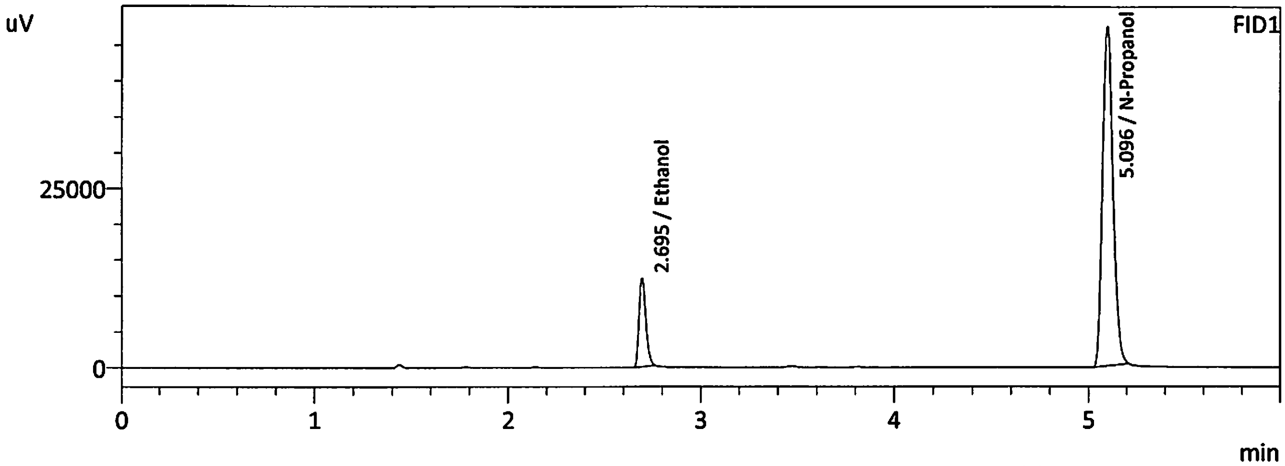
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0805	31828	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	185154	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

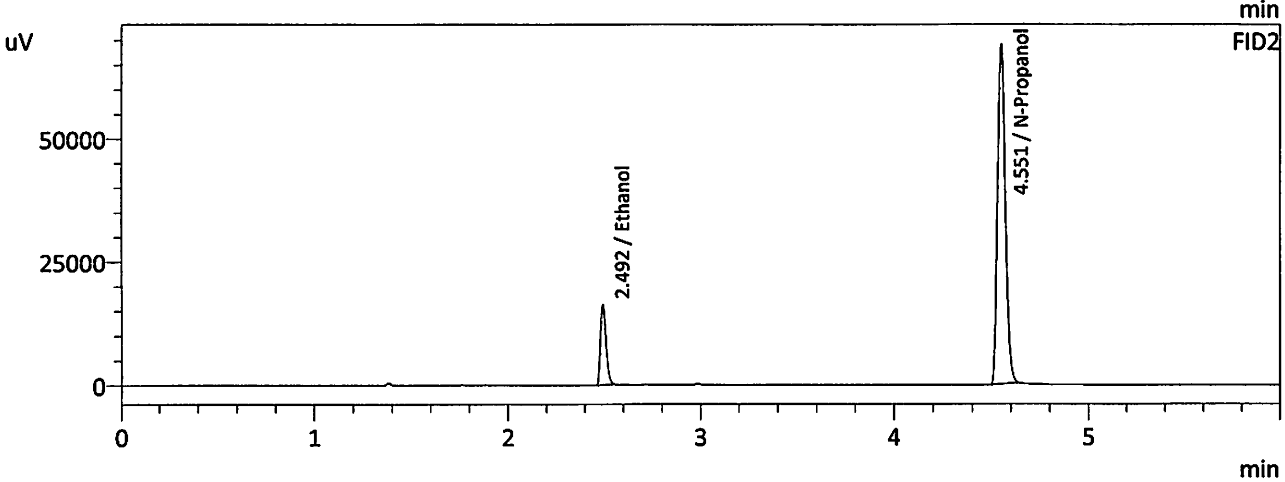
FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0810	34279	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	197601	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JL

Sample Name : QC-1-2-B
Laboratory : Meridian
Injection Date : 9/29/2025 2:41:36 PM
Vial # : 16
Method Filename : Default Project - ALCOHOL_250917JG.gcm
Instrument #GC/HS : C12255750548 / C12595800409





FID1

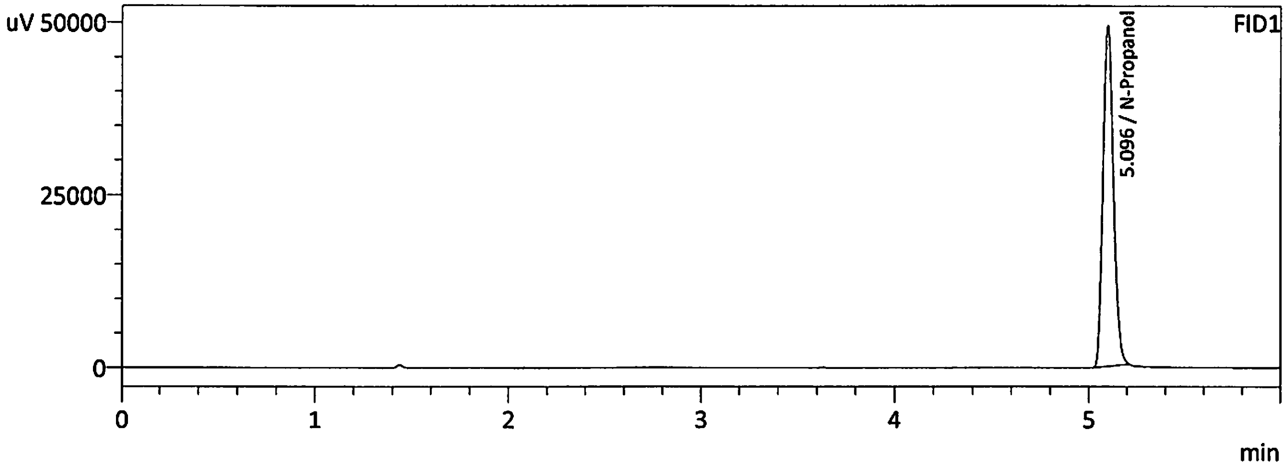
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0783	30091	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	180001	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

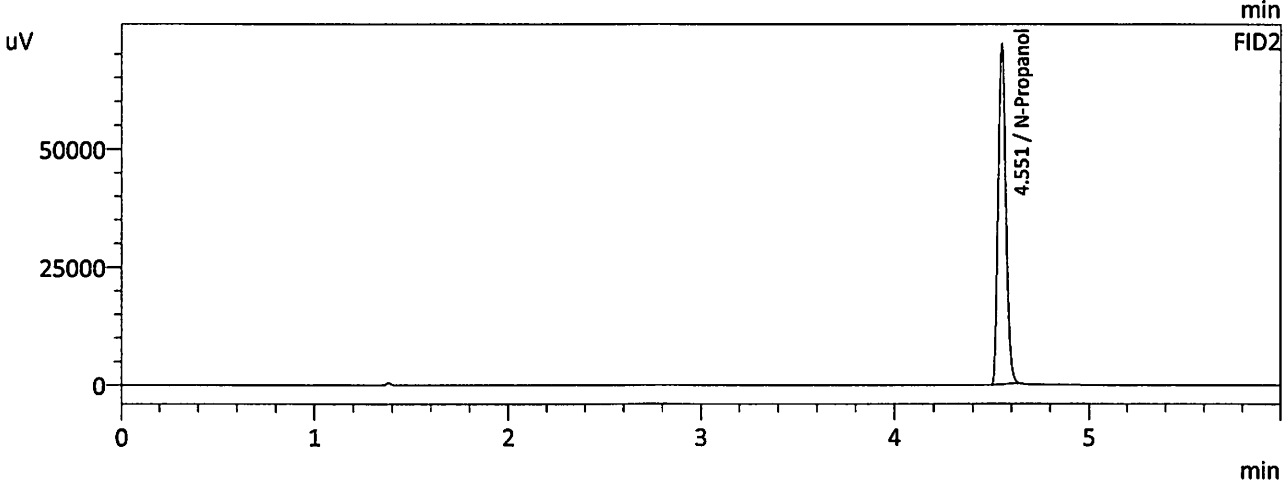
FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0789	32420	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	191897	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

Sample Name : ISTD BLK 2
Laboratory : Meridian
Injection Date : 9/29/2025 2:53:50 PM
Vial # : 17
Method Filename : Default Project - ALCOHOL_250917JG.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	186304	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	198894	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

J6

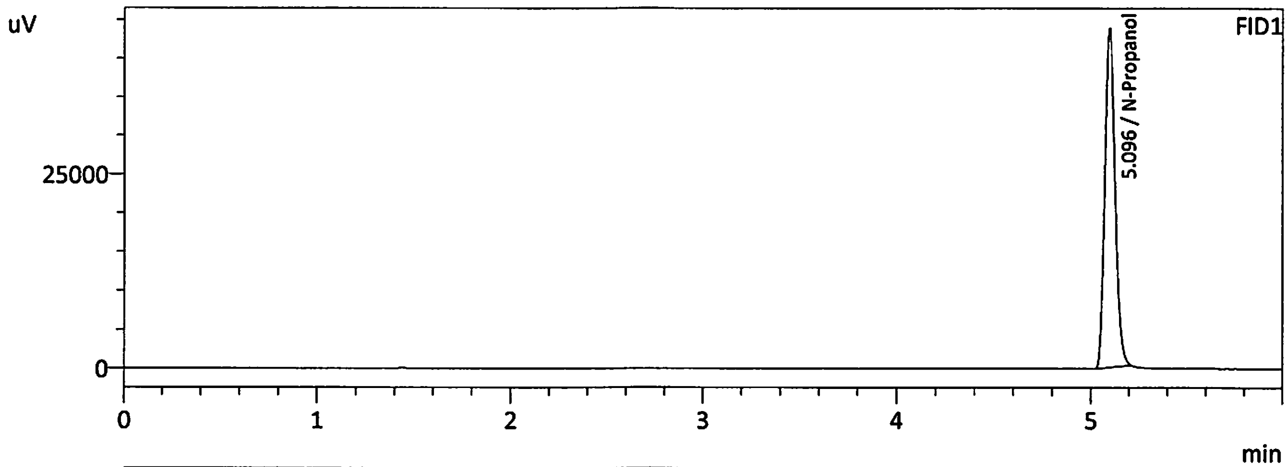
Meridian Blood Alcohol Analysis Batch Table

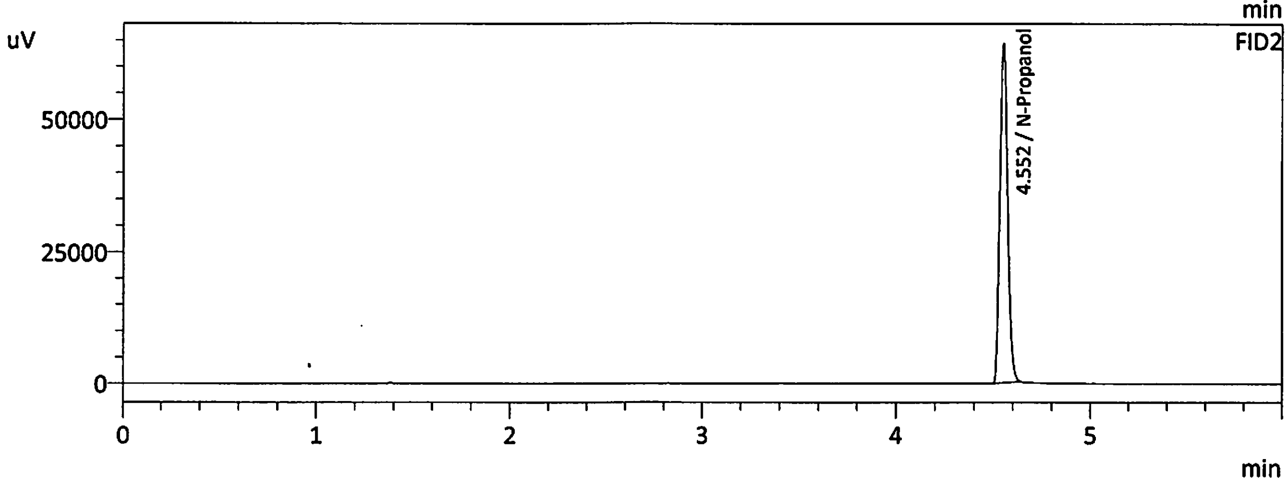
Shimadzu GC-2030 Serial #C12255750548
Shimadzu HS-20 Serial #C12595800409
Lab Solutions Database Software Ver. 6.111

Vial#	Sample Name	Sample Type	Level#	Method File
1	ISTD BLK 1	0:Unknown	0	ALCOHOL 250917JG.gcm
2	ED VOLATILES FN 0530	0:Unknown	1	ALCOHOL 250917JG.gcm
3	QC-1-1	0:Unknown	0	ALCOHOL 250917JG.gcm
4	QC-1-1-B	0:Unknown	0	ALCOHOL 250917JG.gcm
5	0.08 QA	0:Unknown	0	ALCOHOL 250917JG.gcm
6	0.08 QA-B	0:Unknown	0	ALCOHOL 250917JG.gcm
7	M2025-3800-1	0:Unknown	0	ALCOHOL 250917JG.gcm
8	M2025-3800-1-B	0:Unknown	0	ALCOHOL 250917JG.gcm
9	M2025-3860-2	0:Unknown	0	ALCOHOL 250917JG.gcm
10	M2025-3860-2-B	0:Unknown	0	ALCOHOL 250917JG.gcm
11	M2025-3883-1	0:Unknown	0	ALCOHOL 250917JG.gcm
12	M2025-3883-1-B	0:Unknown	0	ALCOHOL 250917JG.gcm
13	QC-2-1	0:Unknown	0	ALCOHOL 250917JG.gcm
14	QC-2-1-B	0:Unknown	0	ALCOHOL 250917JG.gcm
15	QC-1-2	0:Unknown	0	ALCOHOL 250917JG.gcm
16	QC-1-2-B	0:Unknown	0	ALCOHOL 250917JG.gcm
17	ISTD BLK 2	0:Unknown	0	ALCOHOL 250917JG.gcm

JG

Sample Name : ISTD BLK 1
Laboratory : Meridian
Injection Date : 10/1/2025 9:31:32 AM
Vial # : 17
Method Filename : Default Project - ALCOHOL_250917JG.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	166889	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

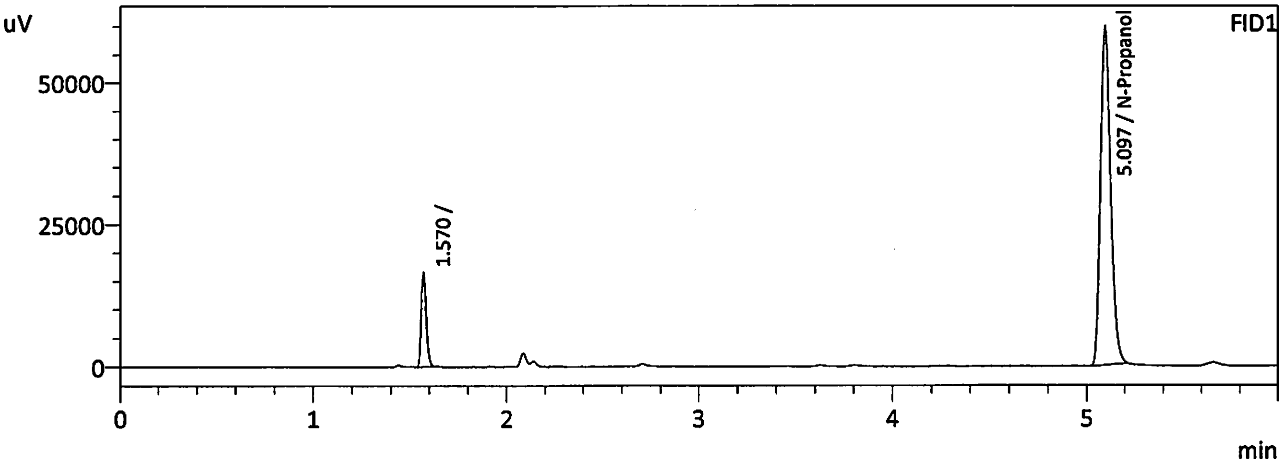
FID2

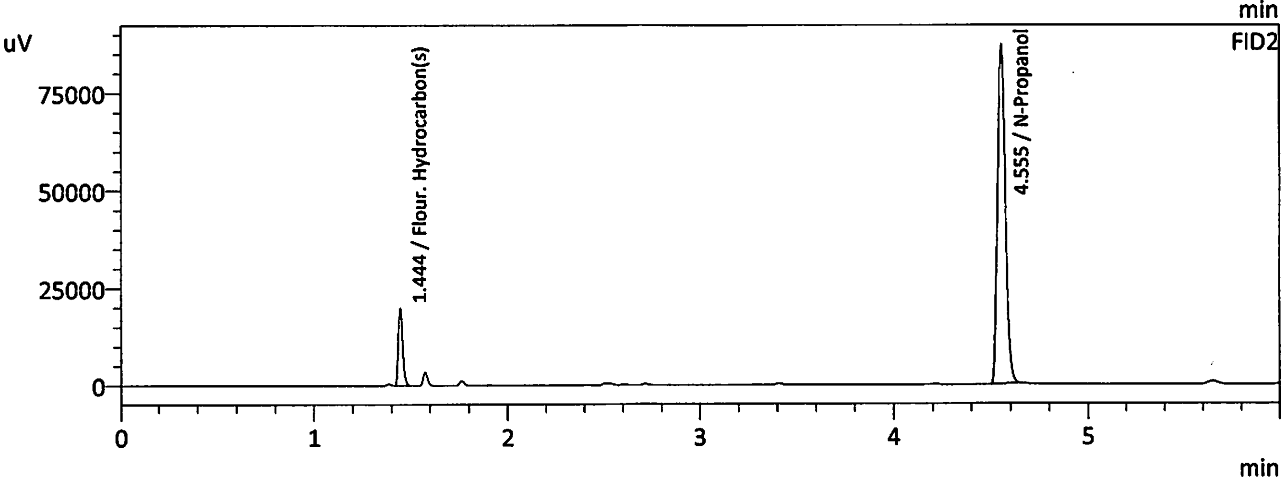
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	177751	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JC

TFE 10/1/25 JG

Sample Name : 111914
Laboratory : Meridian
Injection Date : 10/1/2025 9:44:18 AM
Vial # : 18
Method Filename : Default Project - ALCOHOL_250917JG.gcm
Instrument #GC/HS : C12255750548 / C12595800409





FID1

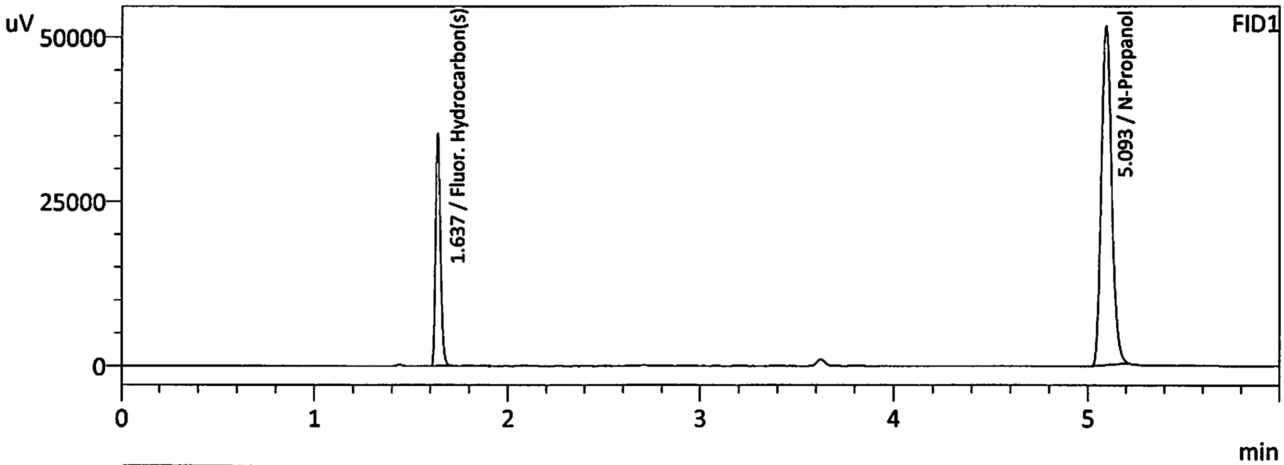
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	227265	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

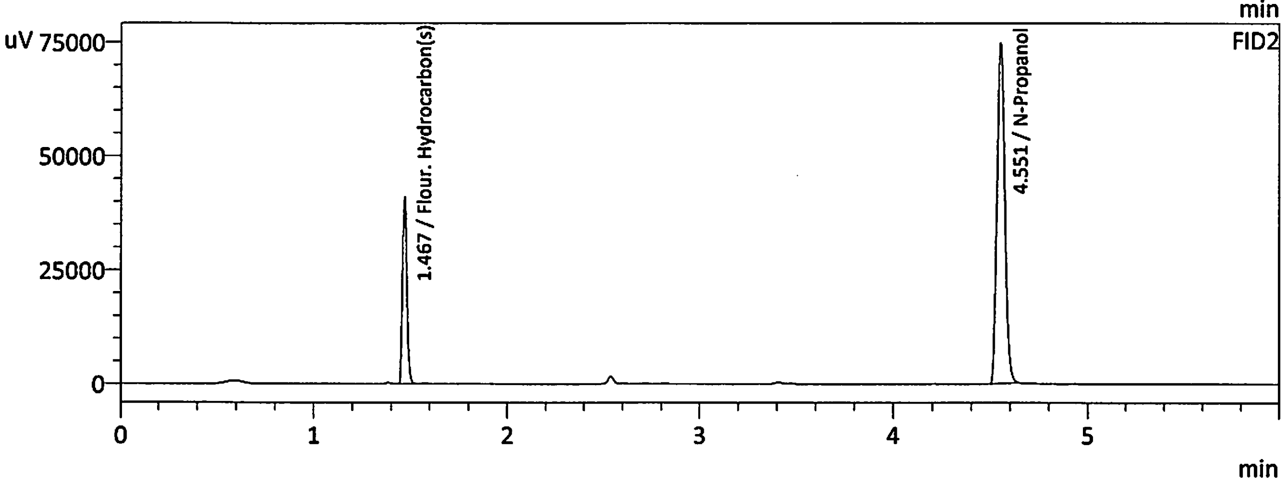
FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	241338	g/100cc
Flour. Hydrocarbon(s)	0.0000	31158	g/100cc

JG

Sample Name : 111914OM DFE 10/1/25 JG
Laboratory : Meridian
Injection Date : 10/1/2025 9:56:25 AM
Vial # : 19
Method Filename : Default Project - ALCOHOL_250917JG.gcm
Instrument #GC/HS : C12255750548 / C12595800409





FID1

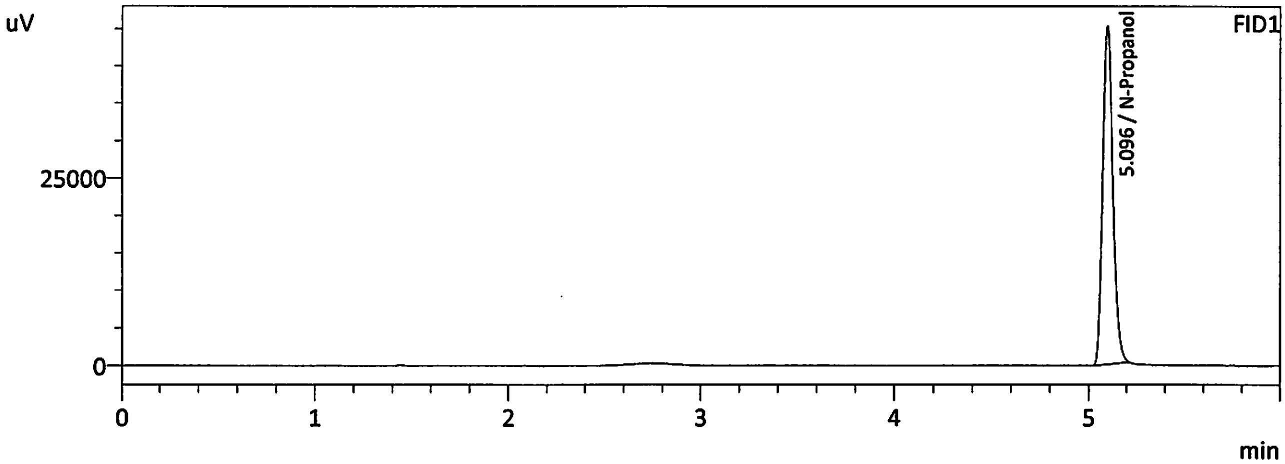
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	194905	g/100cc
Fluor. Hydrocarbon(s)	0.0000	61681	g/100cc

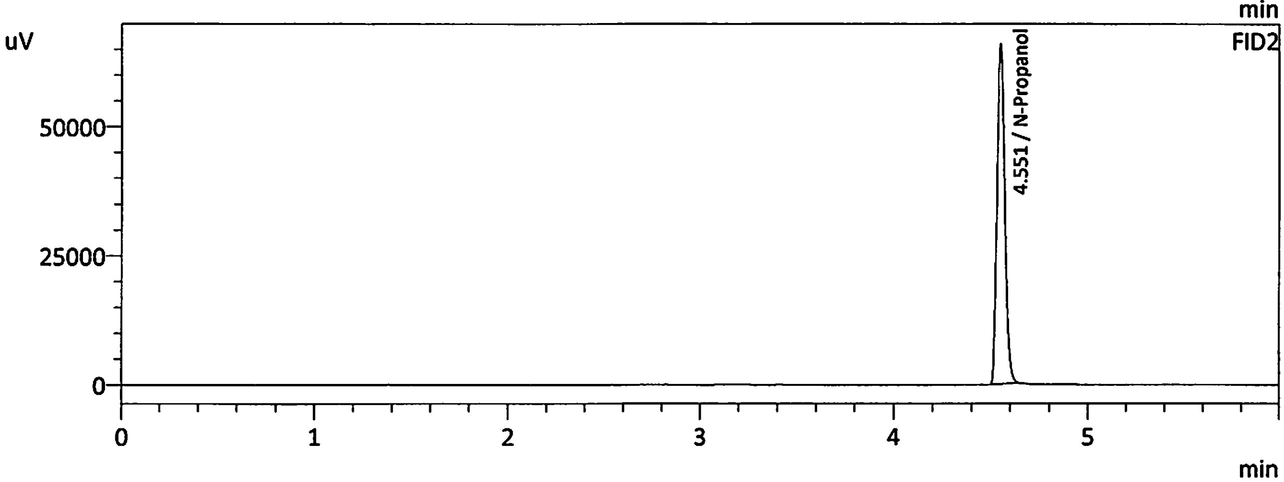
FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	207556	g/100cc
Flour. Hydrocarbon(s)	0.0000	64246	g/100cc

JC

Sample Name	: ISTD BLK 2
Laboratory	: Meridian
Injection Date	: 10/1/2025 10:08:49 AM
Vial #	: 17
Method Filename	: Default Project - ALCOHOL_250917JG.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	171406	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	182111	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
17	ISTD BLK 1	0:Unknown	0	ALCOHOL 250917JG.gcm
18	111914	0:Unknown	1	ALCOHOL 250917JG.gcm
19	111914OM	0:Unknown	0	ALCOHOL 250917JG.gcm
17	ISTD BLK 2	0:Unknown	0	ALCOHOL 250917JG.gcm

JG