APPROVED
By John Garner at 9:02 am, Mar 02, 2022

2/28/2022

Worklist: 5640

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
M2022-0654	1	BCK	Alcohol Analysis
M2022-0667	1	BCK	Alcohol Analysis
M2022-0669	1	BCK	Alcohol Analysis
M2022-0687	2	BCK	Alcohol Analysis
M2022-0716	1	BCK	Alcohol Analysis
M2022-0717	1	BCK	Alcohol Analysis
M2022-0729	1	BCK	Alcohol Analysis
M2022-0730	1	BCK	Alcohol Analysis
M2022-0731	1	BCK	Alcohol Analysis
M2022-0746	1	BCK	Alcohol Analysis
M2022-0747	1	BCK	Alcohol Analysis
M2022-0773	1	BCK	Alcohol Analysis
M2022-0806	2	BCK	Alcohol Analysis
M2022-0807	1	BCK	Alcohol Analysis
M2022-0808	1	BCK	Alcohol Analysis
M2022-0849	1	BCK	Alcohol Analysis
M2022-0857	1	BCK	Alcohol Analysis
M2022-0858	1	BCK	Alcohol Analysis

Quantitative Analysis for Ethanol & Qualitative Analysis for Other Volatiles

Analytical Method(s): 1.0

Device: Hamilton MICROLAB Liquid Processor/Dilutor Serial Number: L600HC11378

Volatiles Quality Assurance Controls **Run Date(s): 2/28/22**

Calibration Date: 2/16/22

Worklist #: 5640

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Jul-23	1907006	0.0764	0.0688-0.0840	0.0738 g/100cc
					0.0778 g/100cc
					g/100cc
Level 2	Jul-23	1907007	0.2170	0.1953-0.2387	0.2158 g/100cc
					g/100cc
					g/100cc

Multi-Component mixture:	**Exp:**	**Jul-22**	**Lot #**	FN07101701		acceptable
Curve Fit:		**Column 1**	0.99994		**Column2**	0.99997

Ethanol Calibration Reference Material

Calibrator level	Target Value	Acceptable Range	Column 1	Column 2	Precision	Mean
50	0.050	0.045 - 0.055	0.0513	0.0506	0.0007	0.0509
100	0.100	0.090 - 0.110	0.0997	0.1000	0.0003	0.0998
200	0.200	0.180 - 0.220	0.1996	0.2001	0.0005	0.1998
300	0.300	0.270 - 0.330	0.2978	0.2982	0.0004	0.298
400	0.400	0.360 - 0.440			0	#DIV/0!
500	0.500	0.450 - 0.550	0.5013	0.5009	0.0004	0.5011

Internal Standard	Average	(-) 20%	(+) 20%
N-Propanol:	213688.0	170950.4	256425.6

Aqueous Controls

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

NB

Revision: 4
Issue Date: 01/24/2022
Issuing Authority: Quality Manager

Internal Standard Monitoring Worksheet

Worklist #: 5640 **Run Date(s):** 2/28/22

Internal Standard Solution:	Prep Date: 2/2/22	Exp Date: 8/2/22

Sample Name	Column 1 Value	Column 2 Value	Average
0.080A	199002	187871	193436.5
0.080B	194757	183855	189306
QC1-1A	196774	185730	191252
QC1-1B	199521	188306	193913.5
QC1-2A	250240	236162	243201
QC1-2B	258212	243408	250810
QC2-1A	228114	215403	221758.5
QC2-1B	232469	219184	225826.5
			#DIV/0!
			#DIV/0!
			#DIV/0!
			#DIV/0!
			#DIV/0!
			#DIV/0!

Combined Average	(-)20%	(+)20%
213688.0	170950.4	256425.6

Idaho State Police
Forensic Services

Request for Departure from an Analytical Method or Quality Standard

Deviation Number (assigned by QM): **BLA-22-01**

Date of Request: **1/21/2022**

Requestor/Discipline: Melissa (Nikka) Bradley/Blood Alcohol

Analytical Method/Quality Standard, Revision #: AM#1 Analysis for Volatiles by Headspace GC/ 4.3.9

Temporary or Permanent Deviation: Permanent

Scope of Deviation There is a noticeable increased drift of internal standard (n-propanol signals) from the calibrators, beginning of the run and towards the end of the sample run that is consistent in multiple batches of blood alcohol runs. Because all the samples that are analyzed are being compared to calibrators that are performed at the beginning of the run, the n-propanol signal of end samples tend to be outside or close to being outside of the +/- 20% of the mean value from the calibration curve used Despite this drift the values of known control samples are within acceptable limits.

Deviation Request

4.3.9.1.1 The average values for the internal standard will be established by averaging the IS counts throughout the calibration curve samples.

Requesting that the internal standard monitoring average be changed to average the aqueous and matrix controls within the run.

> 4.3.9.1.1 The average values for the internal standard will be established by averaging the IS counts from the aqueous control and all matrix blood control samples.

Technical Justification for Analytical Method Deviations:
The designed purpose of the internal standard monitoring is to evaluate the quality of injection of each sample. There is a gradual increase of internal standard response from the beginning of the batch (calibrators and early samples) to the end that is inherent to the current instrument set up as shown in trends from previous batches in multiple laboratories. Attempts to pre-condition/warm up the instrument using by running a pre-batch sequence utilizing old calibrator/blank samples prior to running a new calibration curve did not appear to minimize this occurrence. Furthermore, it can be seen that the drifting trend is not due to the extraction procedure because some of the later batch samples were extracted prior to the samples that are injected during the run. It is worth noting that despite this

trend, the values of the known control samples are still within the specified acceptable range. By utilizing known control n-propanol signals throughout the batch, any potential drift will be taken into account while still being able to monitor a possible mis-injection or partial injection throughout the batch/sequence.

This deviation will have an expiration date of July 1st, 2022.

Technical Review

☒ Departure approved
Comments: Forms will be updated to reflect the new process concurrent with the deviation.

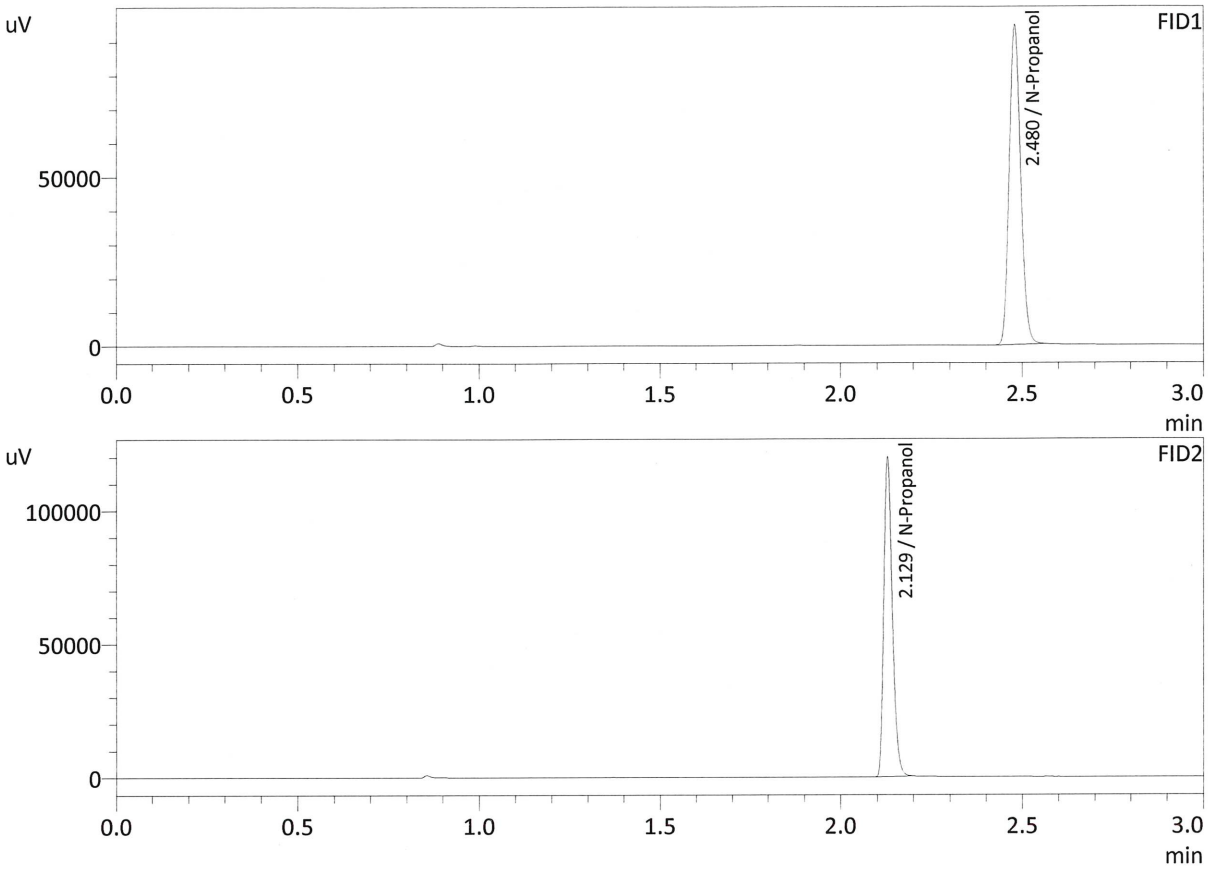
☐ Departure Not Approved
Comments:

Approver: Date: 1/21/22
Title: Discipline Lead

Quality Review

Quality Approver: Jason Crowe
Title: Quality Manager
Date: 01/24/2022

Sample Name : INT STD BLK 1
Laboratory : Meridian
Injection Date : 2/28/2022 11:50:53 AM
Vial # : 1
Method Filename : C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

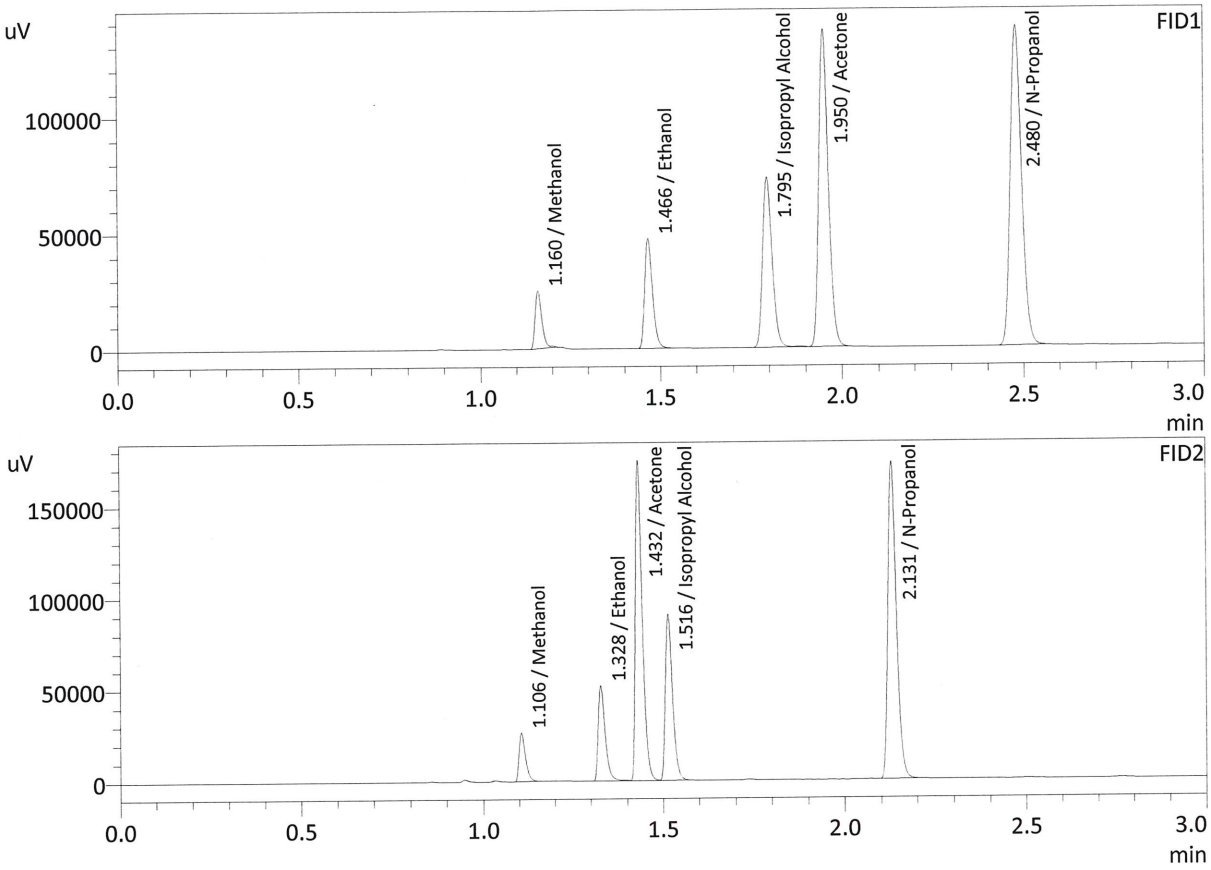
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	209260	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	197732	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

NB

Sample Name : MIXED VOLATILES FN 07101701
Laboratory : Meridian
Injection Date : 2/28/2022 11:58:13 AM
Vial # : 2
Method Filename : C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	0.0000	33118	g/100cc
Ethanol	0.1122	72069	g/100cc
Isopropyl Alcohol	0.0000	134517	g/100cc
Acetone	0.0000	250422	g/100cc
N-Propanol	0.0000	303543	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	0.0000	32698	g/100cc
Ethanol	0.1141	69024	g/100cc
Acetone	0.0000	234009	g/100cc
Isopropyl Alcohol	0.0000	126070	g/100cc
N-Propanol	0.0000	284261	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

VOLATILES BAC CASEFILE WORKSHEET

Laboratory No.: 0.080 QA **Item #** **Analysis Date(s): 2/28/22**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0827	0.0826	0.0001	0.0826	0.0021	0.0815
(g/100cc)	0.0805	0.0805	0.0000	0.0805		

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%**

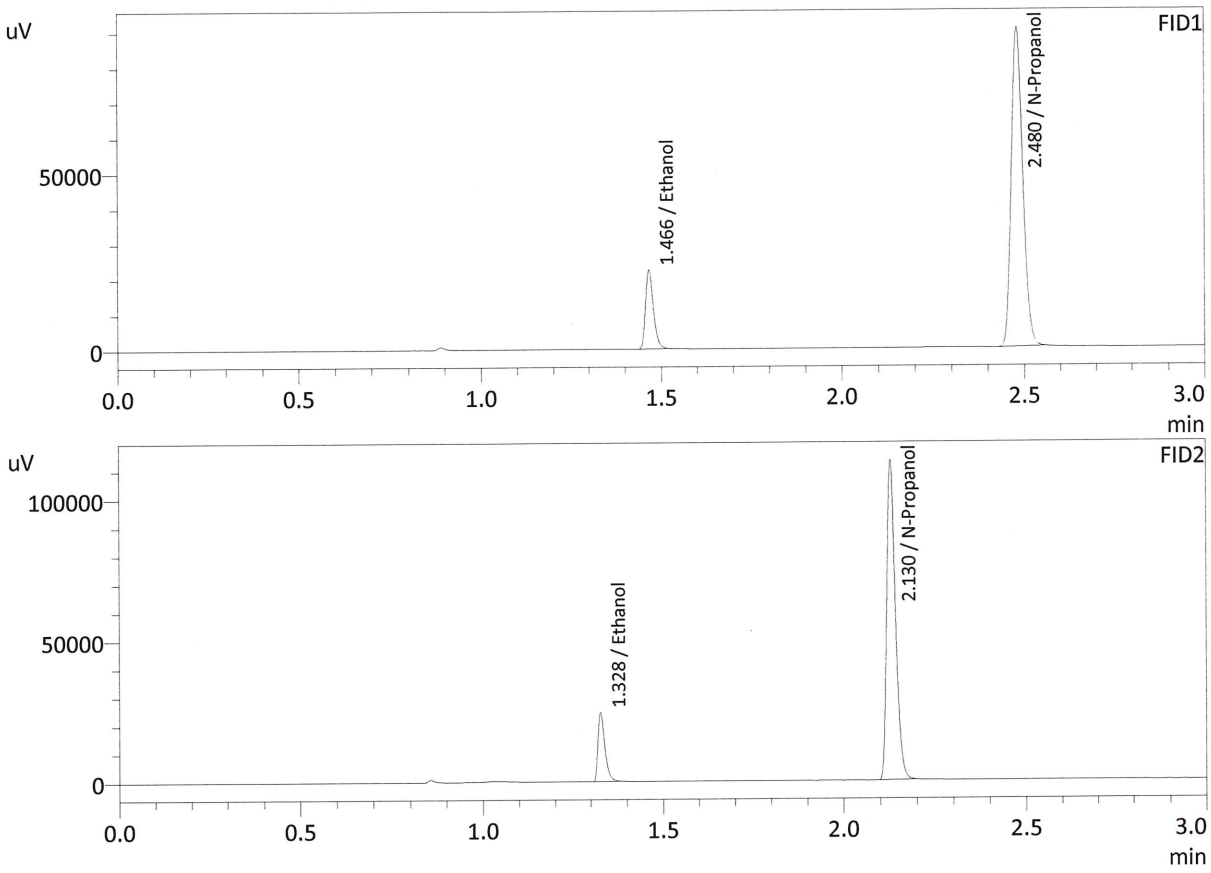
Overall Mean (g/100cc)	Low	High	5% of Mean
0.081	0.076	0.086	0.005

	Reported Result	
	0.081	

Calibration and control data are stored centrally.

NB

Sample Name : 0.08 QA-A
Laboratory : Meridian
Injection Date : 2/28/2022 12:22:04 PM
Vial # : 5
Method Filename : C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



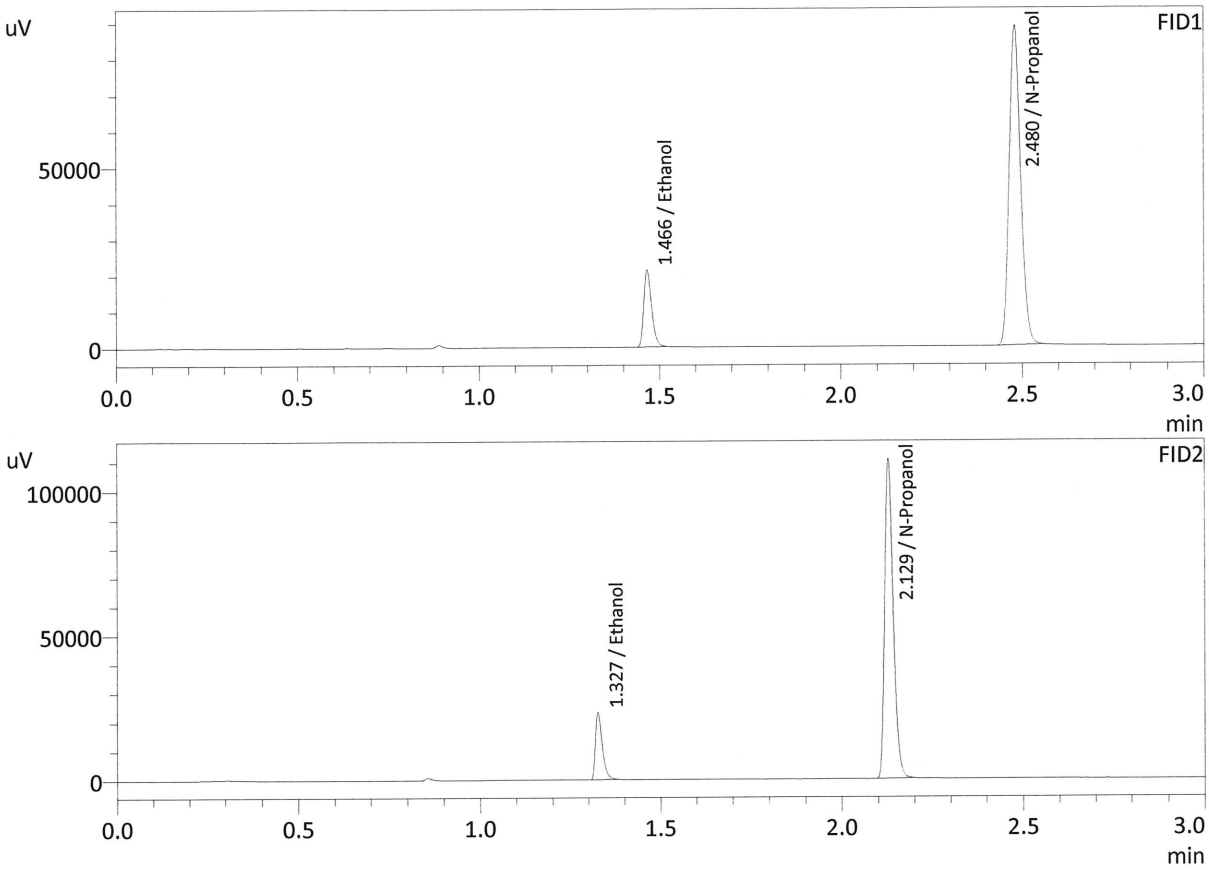
FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0827	34294	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	199002	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0826	32709	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	187871	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

Sample Name : 0.08 QA-B
Laboratory : Meridian
Injection Date : 2/28/2022 12:30:17 PM
Vial # : 6
Method Filename : C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0805	32598	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	194757	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0805	31136	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	183855	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

VOLATILES BAC CASEFILE WORKSHEET

Laboratory No.: QC1-1 **Item #** **Analysis Date(s): 2/28/22**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0736	0.0735	0.0001	0.0735	0.0007	0.0738
(g/100cc)	0.0742	0.0742	0.0000	0.0742		

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%**

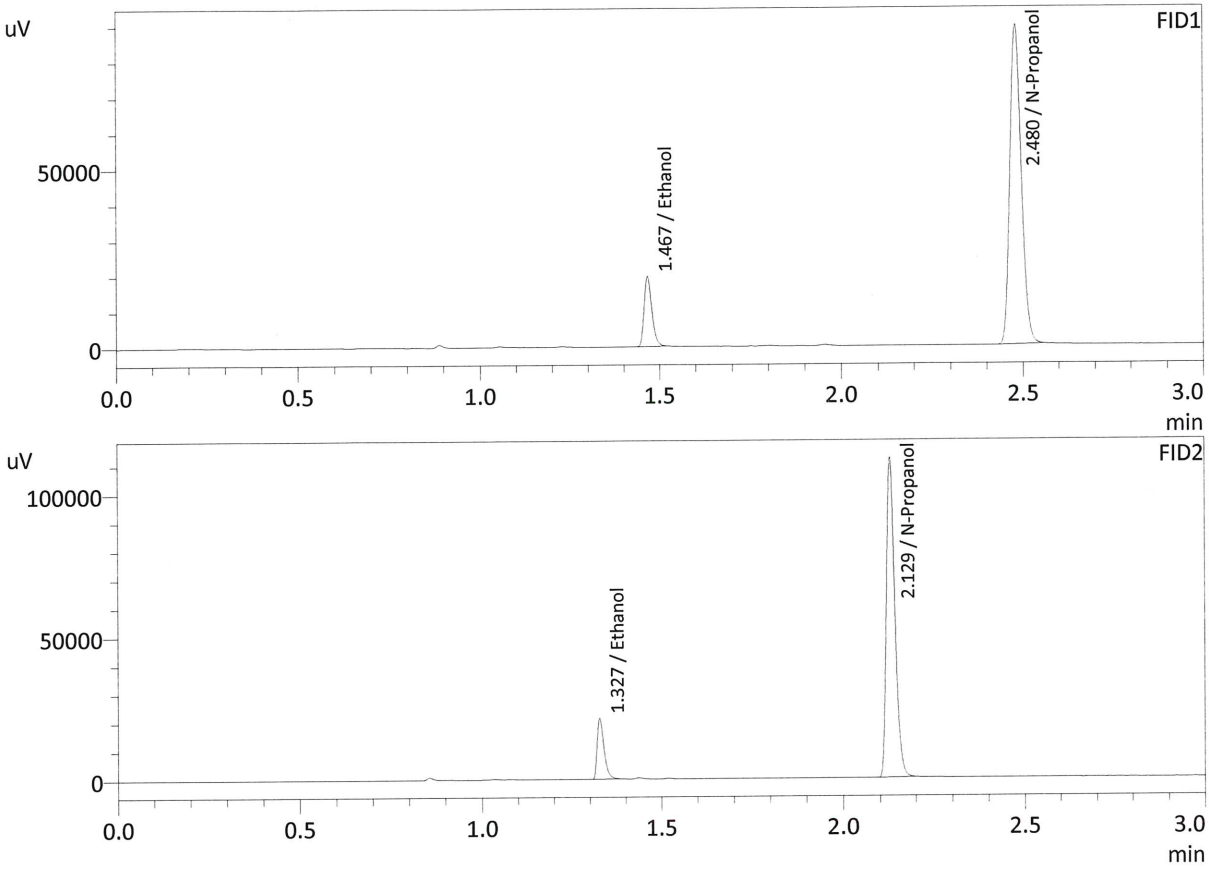
Overall Mean (g/100cc)	Low	High	5% of Mean
0.073	0.069	0.077	0.004

Reported Result

0.073

Calibration and control data are stored centrally.

Sample Name : QC-1-1-A
Laboratory : Meridian
Injection Date : 2/28/2022 12:05:34 PM
Vial # : 3
Method Filename : C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



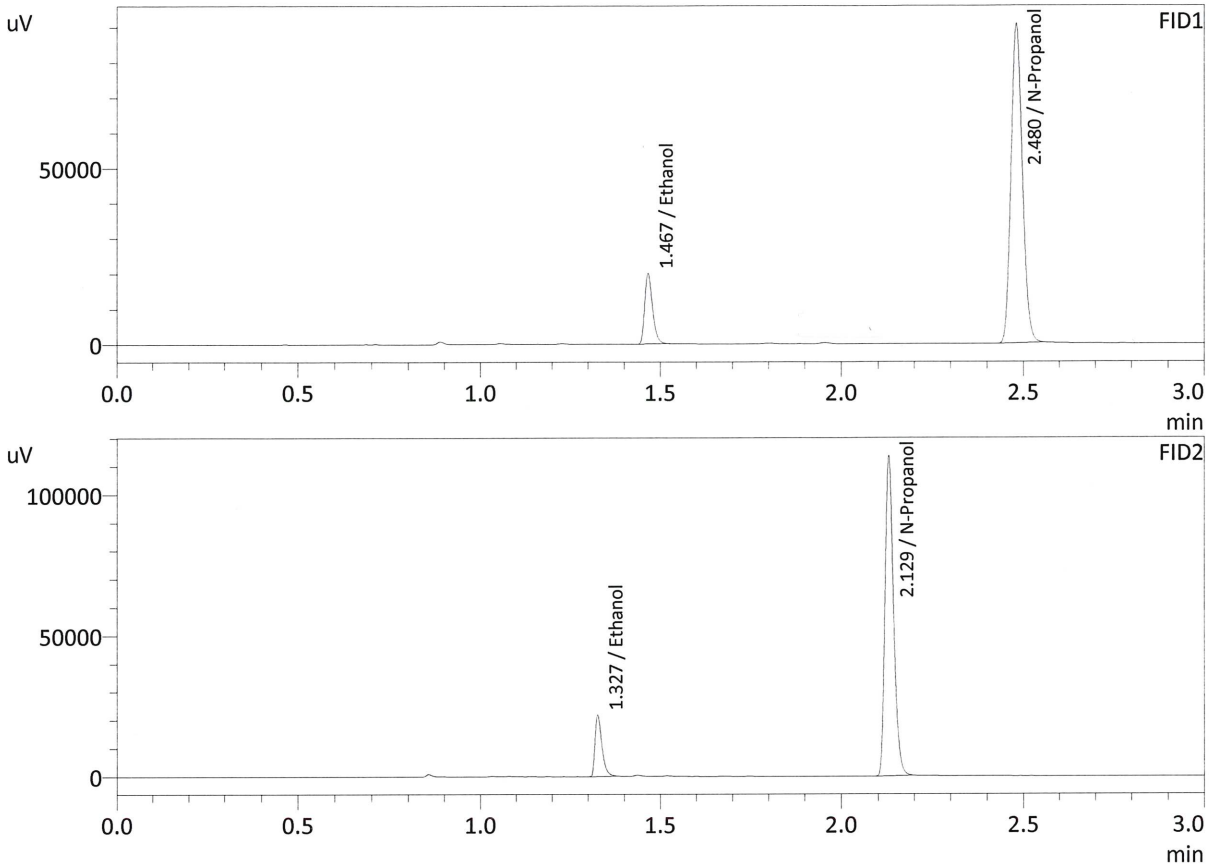
FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0736	29966	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	196774	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0735	28612	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	185730	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

Sample Name : QC-1-1-B
Laboratory : Meridian
Injection Date : 2/28/2022 12:14:34 PM
Vial # : 4
Method Filename : C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0742	30643	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	199521	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0742	29299	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	188306	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

NB

VOLATILES BAC CASEFILE WORKSHEET

Laboratory No.: QC1-2 **Item #** **Analysis Date(s): 2/28/22**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0774	0.0777	0.0003	0.0775	0.0006	0.0778
(g/100cc)	0.0779	0.0783	0.0004	0.0781		

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

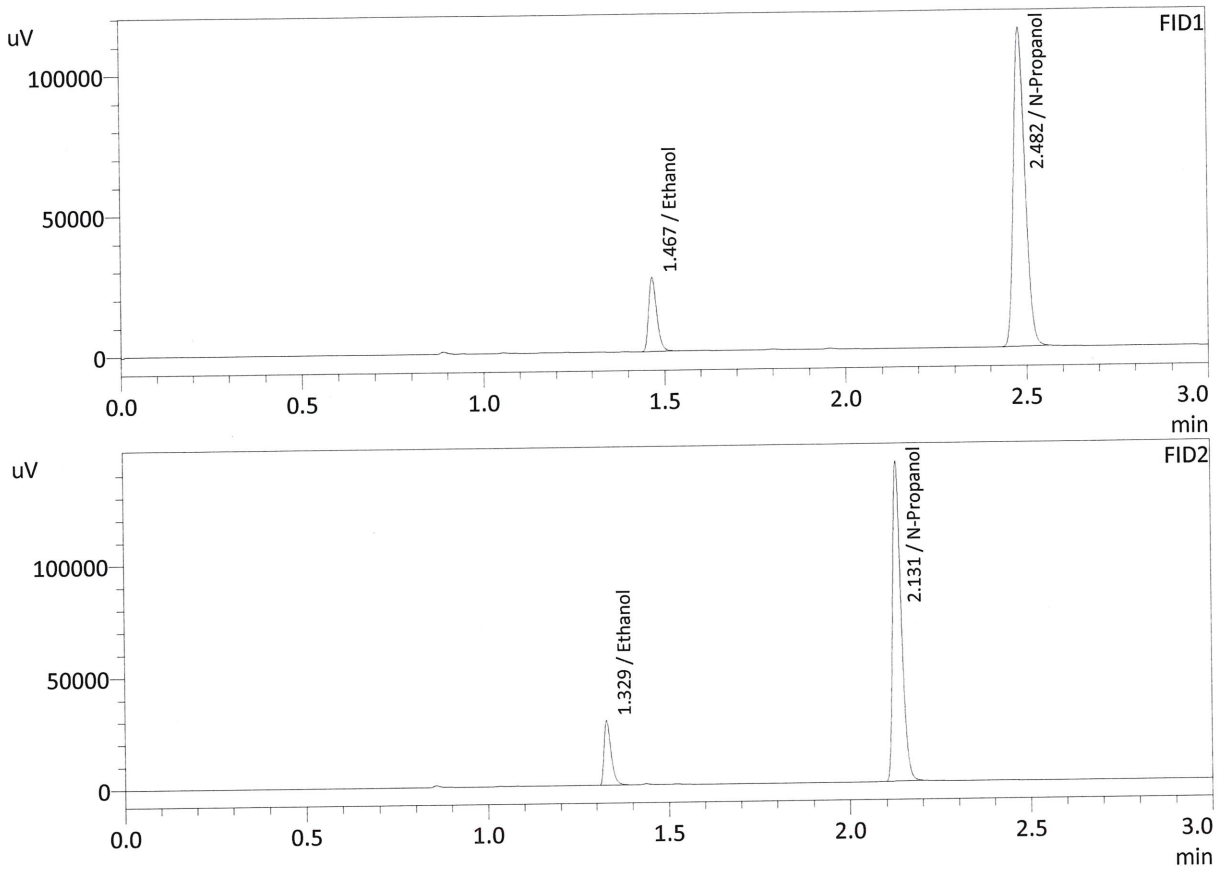
Reporting of Results **Uncertainty of Measurement (UM%): 5.00%**

Overall Mean (g/100cc)	Low	High	5% of Mean
0.077	0.073	0.081	0.004

	Reported Result	
	0.077	

Calibration and control data are stored centrally.

Sample Name : QC1-2-A
Laboratory : Meridian
Injection Date : 2/28/2022 5:48:04 PM
Vial # : 45
Method Filename : C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

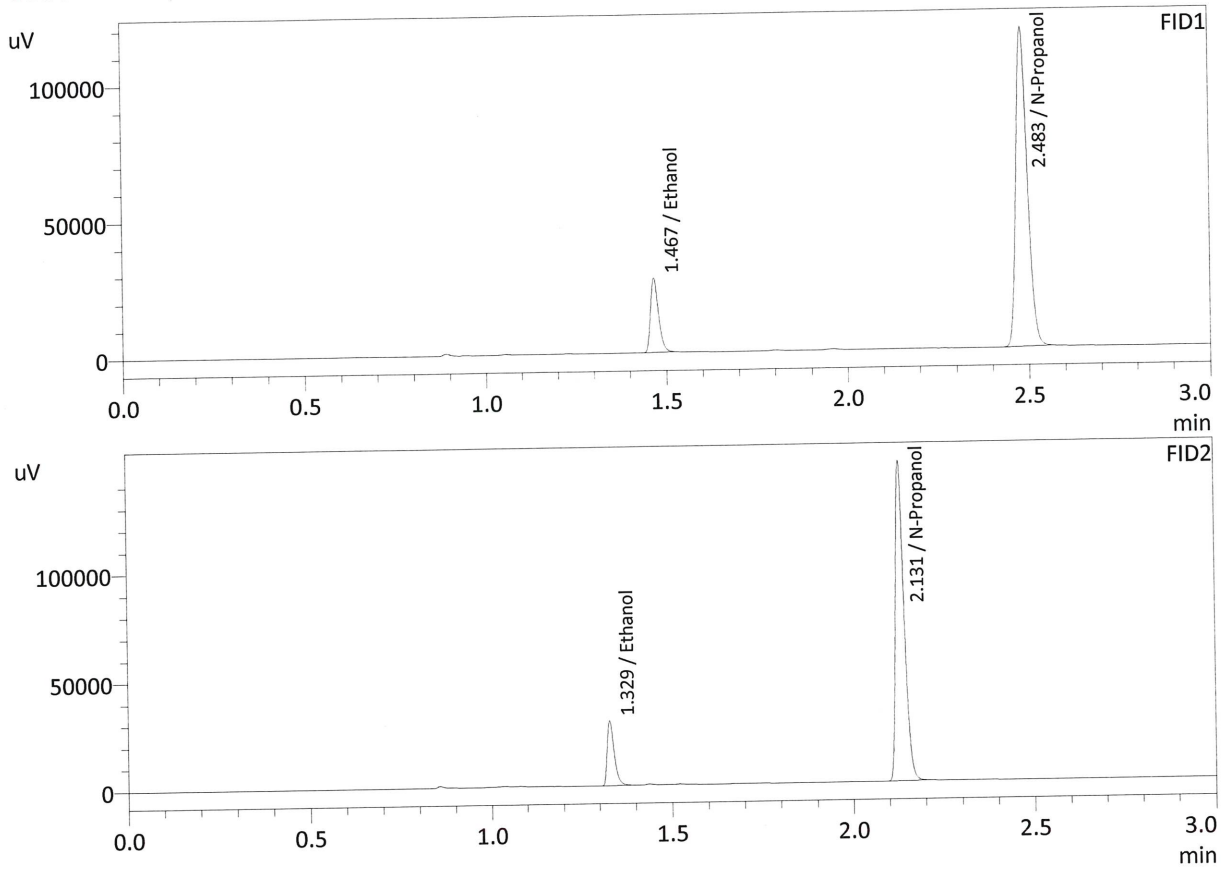
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0774	40181	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	250240	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0777	38576	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	236162	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

NB

Sample Name : QC1-2-B
Laboratory : Meridian
Injection Date : 2/28/2022 5:55:33 PM
Vial # : 46
Method Filename : C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0779	41754	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	258212	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0783	40088	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	243408	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

NB

VOLATILES BAC CASEFILE WORKSHEET

Laboratory No.: QC2-1 **Item #** **Analysis Date(s): 2/28/22**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.2155	0.2168	0.0013	0.2161	0.0006	0.2158
(g/100cc)	0.2150	0.2161	0.0011	0.2155		

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%**

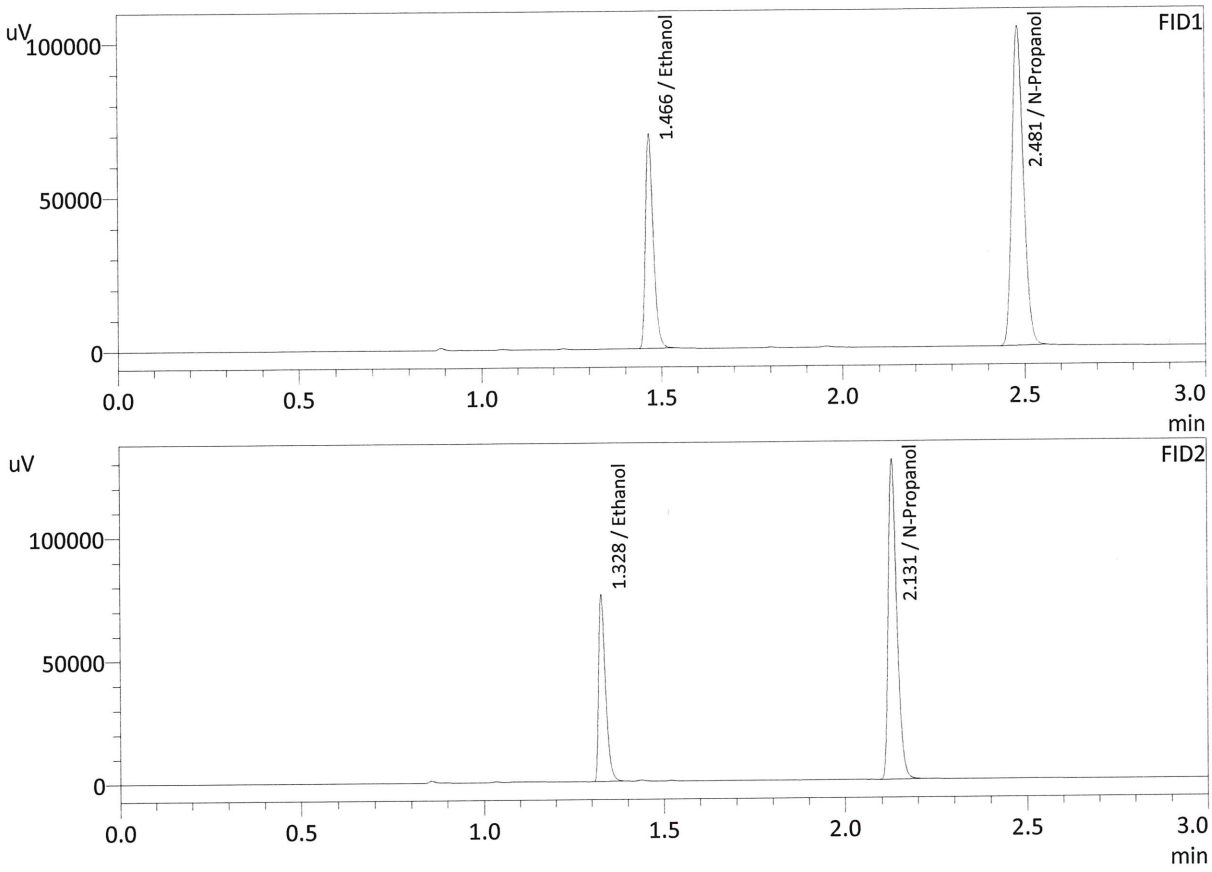
Overall Mean (g/100cc)	Low	High	5% of Mean
0.215	0.204	0.226	0.011

	Reported Result	
	0.215	

Calibration and control data are stored centrally.

NB

Sample Name : QC-2-1-A
Laboratory : Meridian
Injection Date : 2/28/2022 3:04:33 PM
Vial # : 25
Method Filename : C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



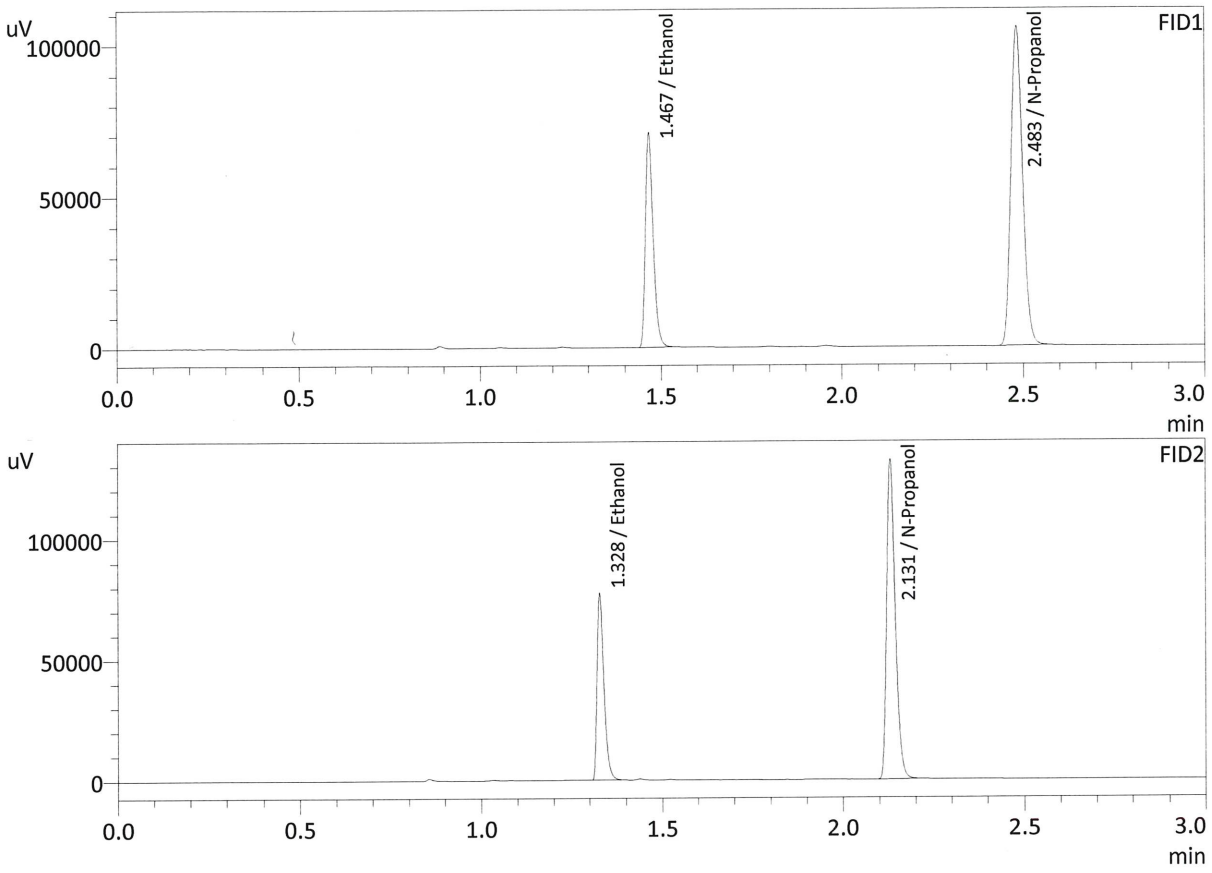
FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2155	106155	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	228114	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2168	100568	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	215403	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

Sample Name : QC-2-1-B
Laboratory : Meridian
Injection Date : 2/28/2022 3:11:49 PM
Vial # : 26
Method Filename : C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



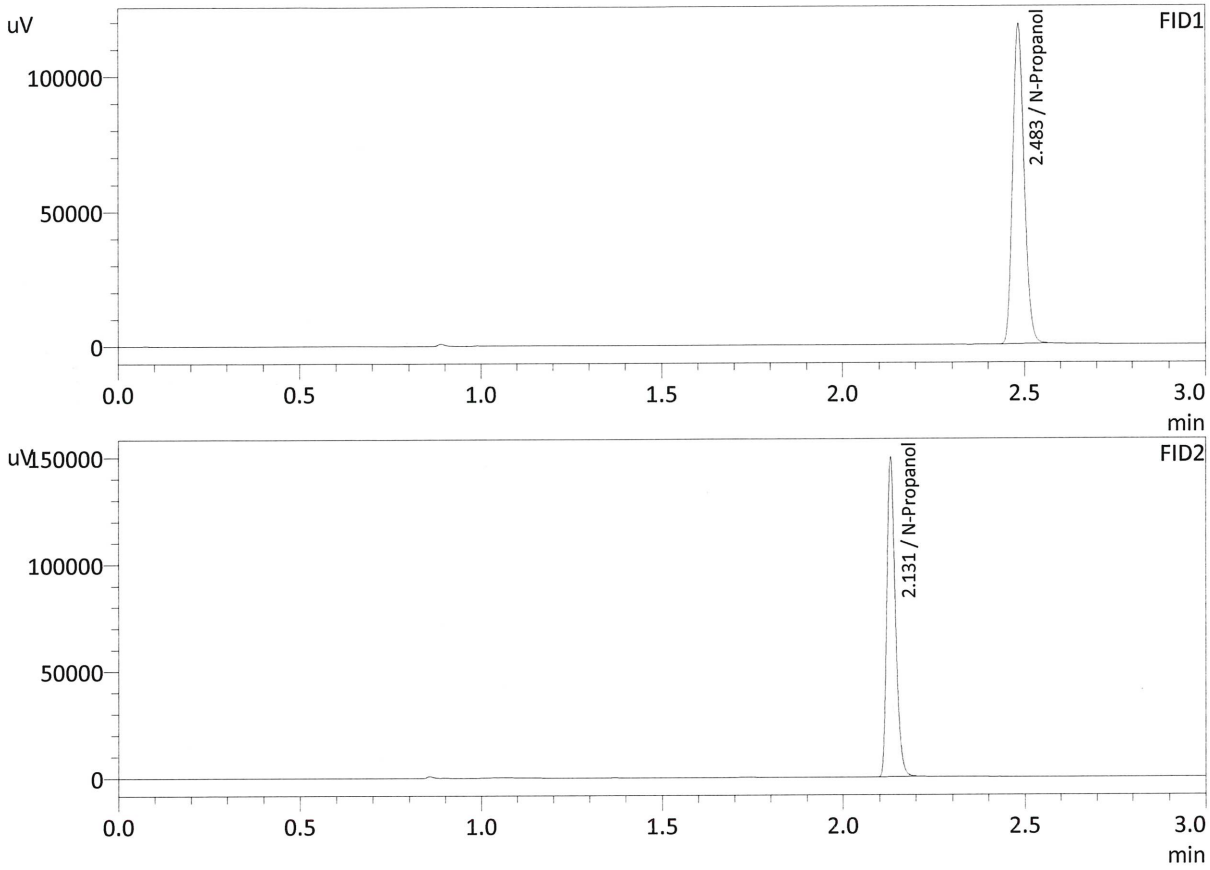
FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2150	107921	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	232469	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2161	102013	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	219184	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

Sample Name : INT STD BLK
Laboratory : Meridian
Injection Date : 2/28/2022 6:03:01 PM
Vial # : 47
Method Filename : C:\LabSolutions\Data\220216\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	261408	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

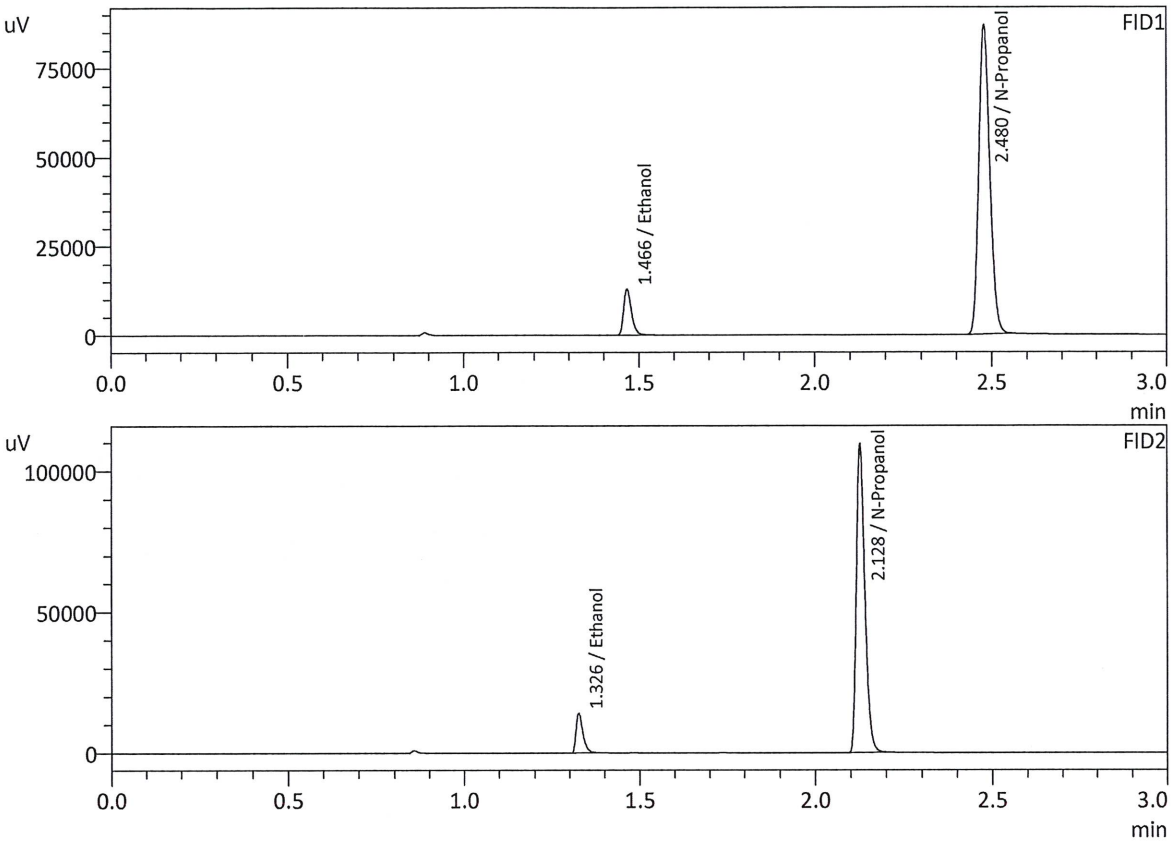
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	246629	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

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\220216\CALIBRATION\ALCOHOL.GCM
2	ED VOLATILES FN 0710	C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
3	QC-1-1-A	C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
4	QC-1-1-B	C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
5	0.08 QA-A	C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
6	0.08 QA-B	C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
7	M2022-0654-1-A	C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
8	M2022-0654-1-B	C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
9	M2022-0667-1-A	C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
10	M2022-0667-1-B	C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
11	M2022-0669-1-A	C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
12	M2022-0669-1-B	C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
13	M2022-0687-2-A	C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
14	M2022-0687-2-B	C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
15	M2022-0716-1-A	C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
16	M2022-0716-1-B	C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
17	M2022-0717-1-A	C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
18	M2022-0717-1-B	C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
19	M2022-0729-1-A	C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
20	M2022-0729-1-B	C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
21	M2022-0730-1-A	C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
22	M2022-0730-1-B	C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
23	M2022-0731-1-A	C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
24	M2022-0731-1-B	C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
25	QC-2-1-A	C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
26	QC-2-1-B	C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
27	M2022-0746-1-A	C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
28	M2022-0746-1-B	C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
29	M2022-0747-1-A	C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
30	M2022-0747-1-B	C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
31	M2022-0773-1-A	C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
32	M2022-0773-1-B	C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
33	M2022-0806-2-A	C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
34	M2022-0806-2-B	C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
35	M2022-0807-1-A	C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
36	M2022-0807-1-B	C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
37	M2022-0808-1-A	C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
38	M2022-0808-1-B	C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
39	M2022-0849-1-A	C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
40	M2022-0849-1-B	C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
41	M2022-0857-1-A	C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
42	M2022-0857-1-B	C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
43	M2022-0858-1-A	C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
44	M2022-0858-1-B	C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
45	QC1-2-A	C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
46	QC1-2-B	C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
47	INT STD BLK	C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM

Sample Name : 0.050
Laboratory : Meridian
Injection Date : 2/16/2022 10:45:01 AM
Vial # : 1
Method Filename : C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

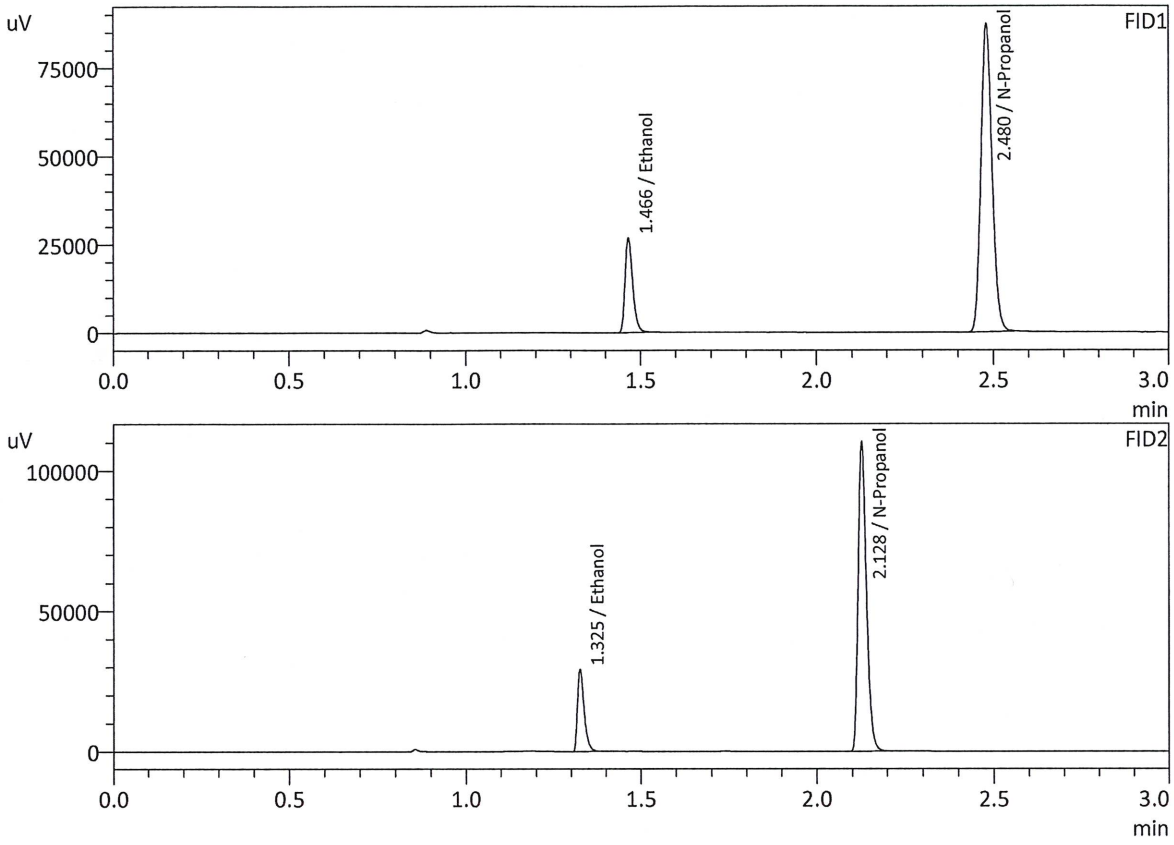
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0513	19673	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	191026	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0506	18802	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	180488	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

NB

Sample Name : 0.100
Laboratory : Meridian
Injection Date : 2/16/2022 10:52:23 AM
Vial # : 2
Method Filename : C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



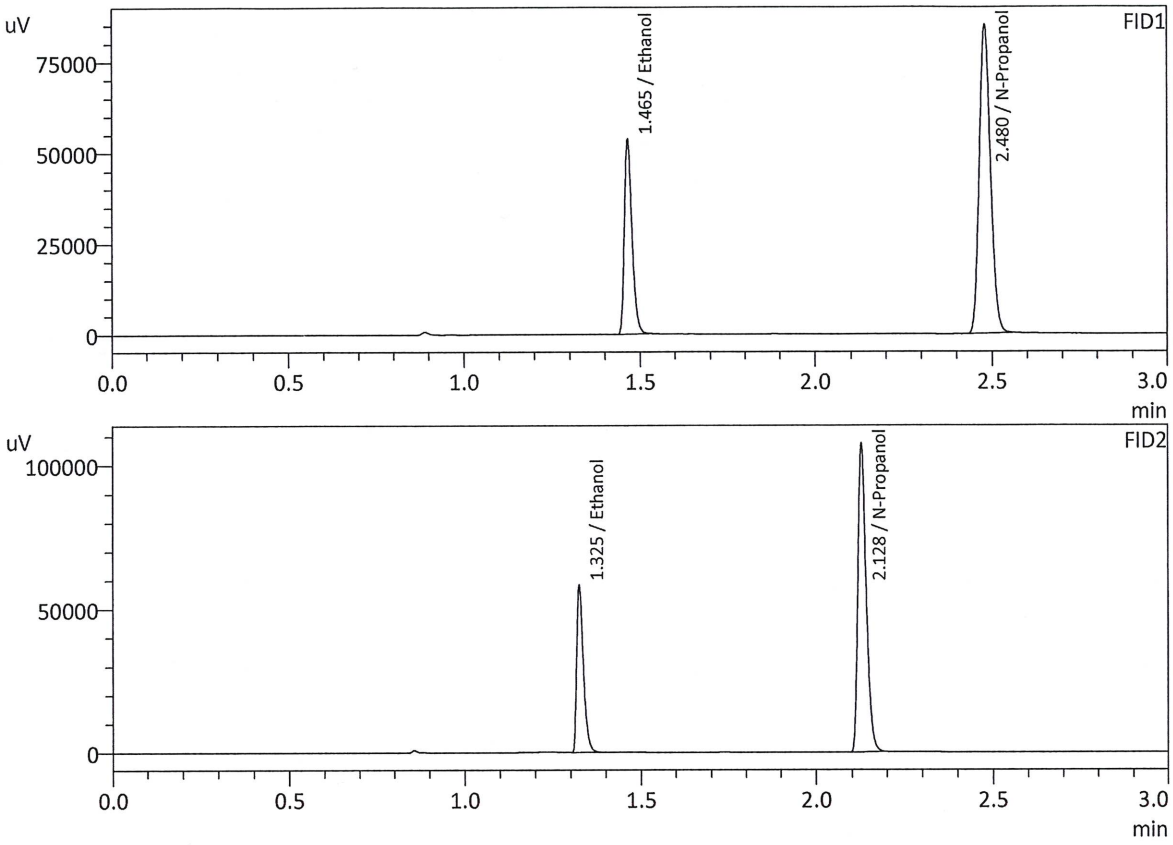
FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0997	40476	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	192812	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1000	38521	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	181805	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

Sample Name : 0.200
Laboratory : Meridian
Injection Date : 2/16/2022 10:59:40 AM
Vial # : 3
Method Filename : C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



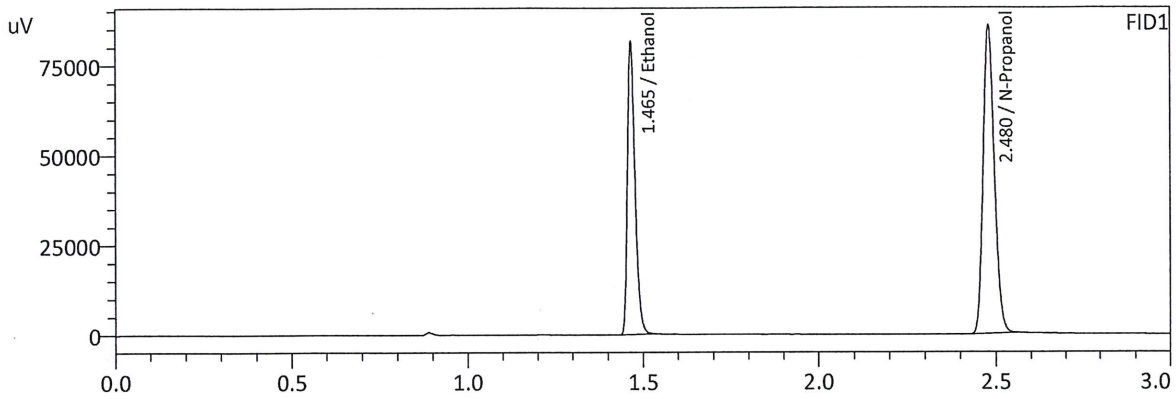
FID1

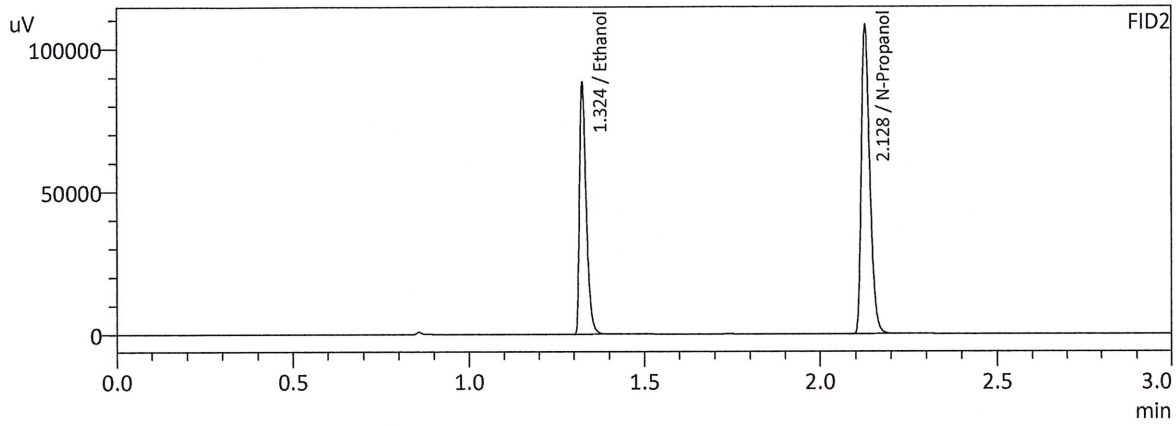
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1996	81184	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	188662	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2001	76571	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	177877	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

Sample Name : 0.300
Laboratory : Meridian
Injection Date : 2/16/2022 11:08:36 AM
Vial # : 4
Method Filename : C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409





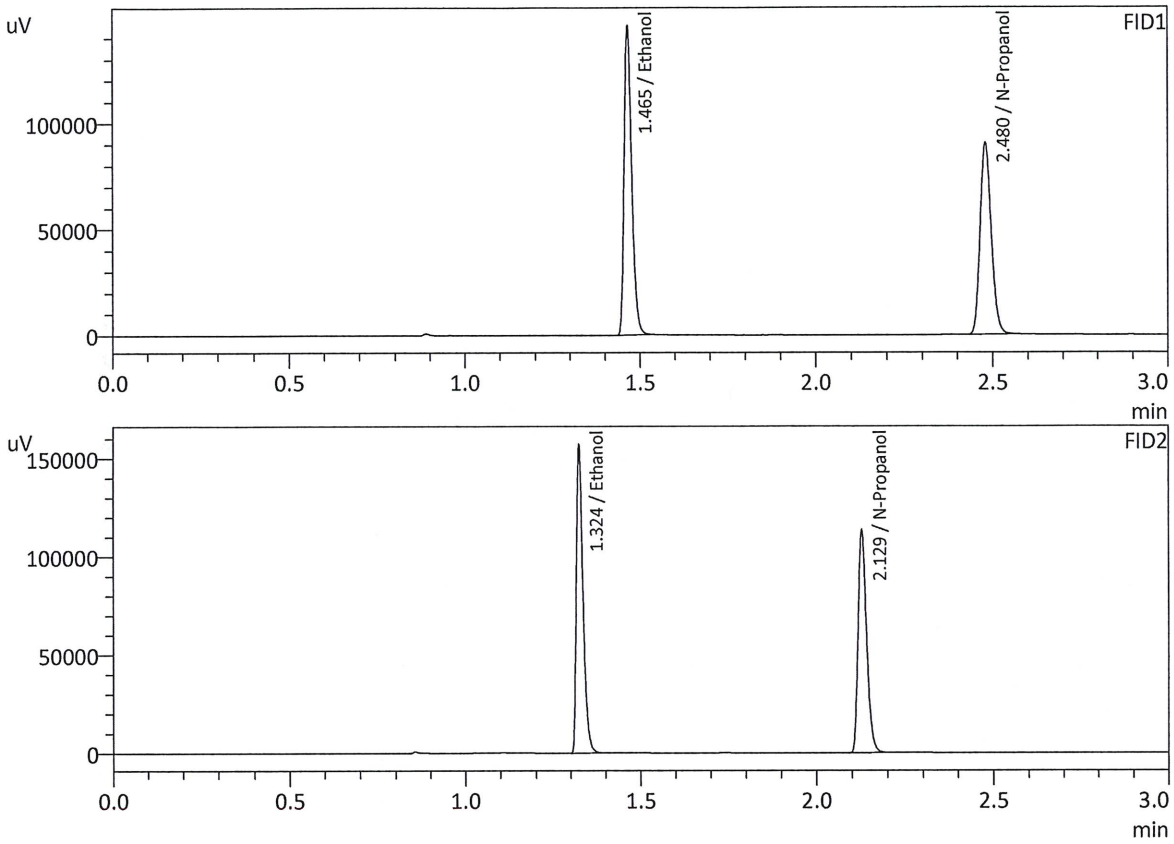
FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2978	122967	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	190070	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2982	115471	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	179077	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

Sample Name : 0.500
Laboratory : Meridian
Injection Date : 2/16/2022 11:16:01 AM
Vial # : 5
Method Filename : C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.5013	219373	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	200201	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

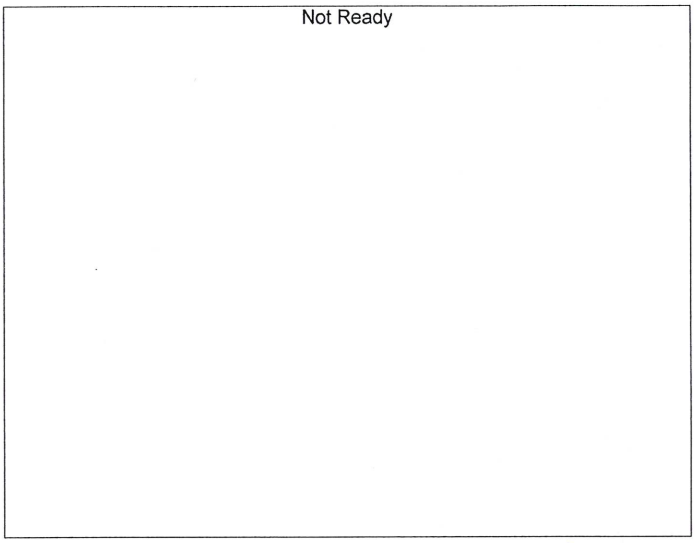
FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.5009	204308	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	187929	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

Calibration Table

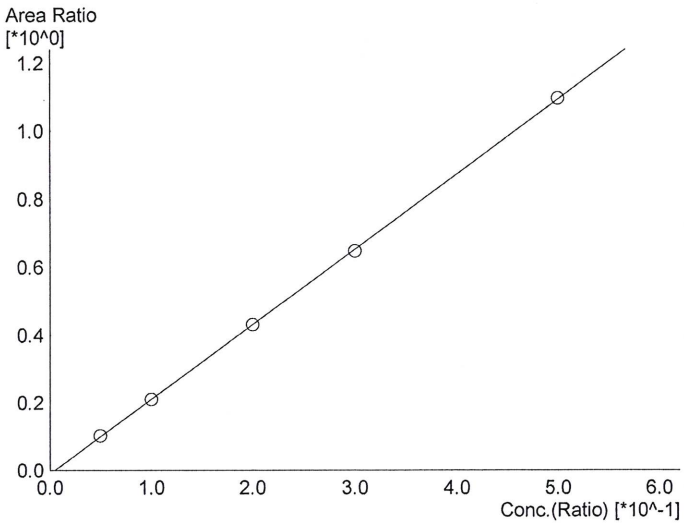
Laboratory : MERIDIAN
Instrument Name : GC-HS
Instrument Serial # : C12595800409 / C12255750548

<<Data File>>
Method File :C:\LabSolutions\Data\220216\CALIBRATION\ALCOHOL.GCM
Batch File :C:\LabSolutions\Data\220216\CALIBRATION\CALCURVE_TEMPLATE.gcb
Date Acquired :2/16/2022 11:16:01 AM
Date Created :2/16/2022 11:11:45 AM
Date Modified :2/16/2022 11:19:04 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)=2.20630*x-0.0102597
R^2 value= 0.9999369
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
1	0.050	19673	0.0513
2	0.100	40476	0.0997
3	0.200	81184	0.1996
4	0.300	122967	0.2978
5	0.500	219373	0.5013

NB

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

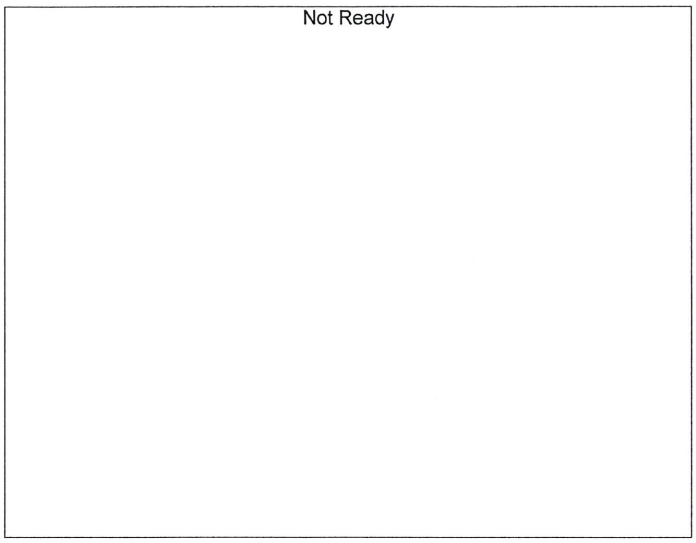
Name : Acetone
Detector Name: FID1
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.

Not Ready

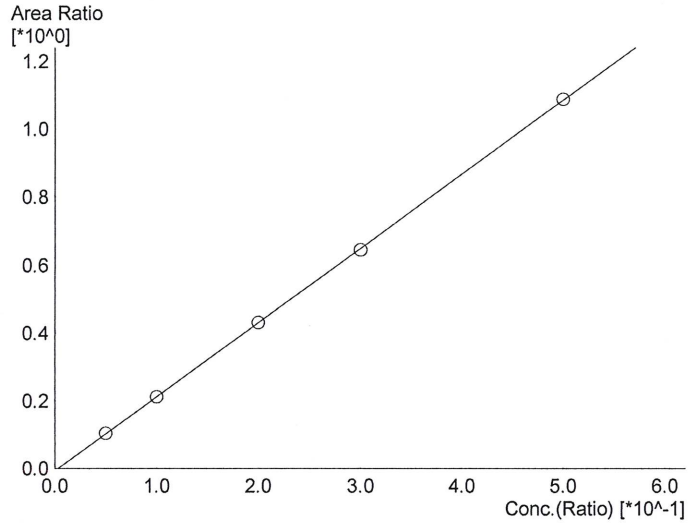
Name : Fluor. Hydrocarbon(s)
Detector Name: FID1
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.



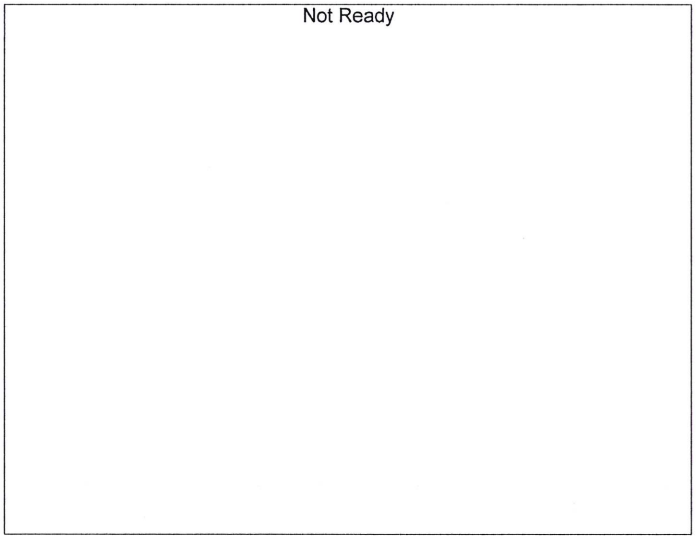
Name : Methanol
Detector Name: FID2
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.



Name : Ethanol
Detector Name: FID2
Function : f(x)=2.18326*x-0.00645134
R^2 value= 0.9999674
FitType: Linear
ZeroThrough: Not Through

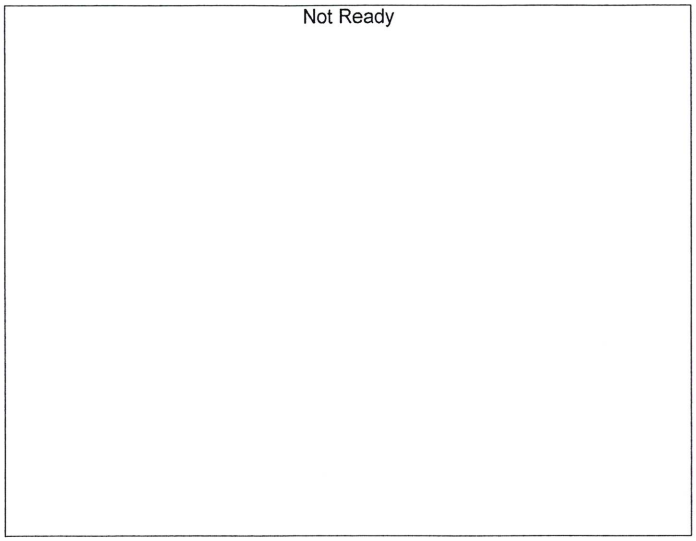
#	Conc.	Area	Std. Conc.
1	0.050	18802	0.0506
2	0.100	38521	0.1000
3	0.200	76571	0.2001
4	0.300	115471	0.2982
5	0.500	204308	0.5009



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

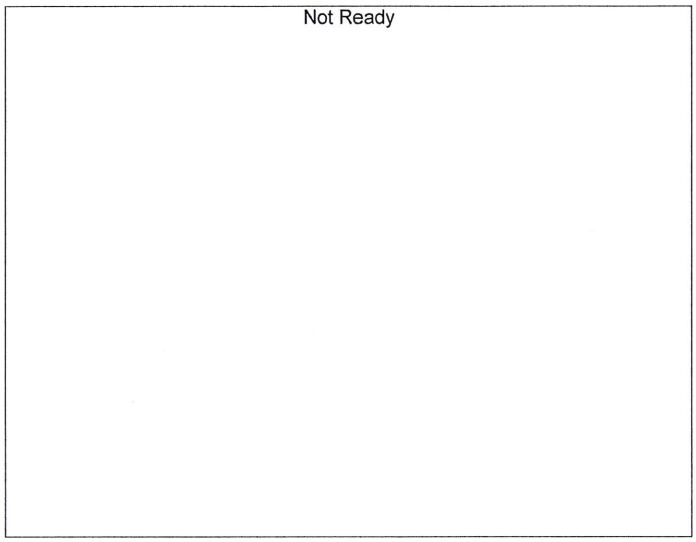
#	Conc.	Area	Std. Conc.

NB



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.

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