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):** 8/10/2022 | **Calibration Date:** 7/28/2022 | **Worklist #:** 6063

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
					0.0771 g/100cc
					g/100cc
Level 2	Jul-23	1907007	0.2170	0.1953-0.2387	0.2102 g/100cc
					g/100cc
					g/100cc

Multi-Component mixture:	Exp:	10/31/2024	Lot #	FN06041902	
Curve Fit:		**Column 1**	0.99993	**Column2**	0.99993

Ethanol Calibration Reference Material

Calibrator level	Target Value	Acceptable Range	Column 1	Column 2	Precision	Mean
50	0.050	0.045 - 0.055	0.0498	0.0497	1E-04	0.0497
100	0.100	0.090 - 0.110	0.1000	0.0999	0.0001	0.0999
200	0.200	0.180 - 0.220	0.1986	0.1987	1E-04	0.1986
300	0.300	0.270 - 0.330	0.3023	0.3024	1E-04	0.3023
400	0.400	0.360 - 0.440	5/11/22 BR 0.4991		0	#DIV/0!
500	0.500	0.450 - 0.550	~~0.4990~~	0.4990	0	0.499

Aqueous Controls

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

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Internal Standard Monitoring Worksheet

Worklist #: 6063 **Run Date(s):** 8/10/2022

Internal Standard Solution:	Prep Date: 5/13/2022	Exp Date: 11/13/2022

Sample Name	Column 1 Value	Column 2 Value
0.080	194258	211714
0.080	197558	215417
QC1	198381	216464
QC1	199997	218088
QC1	249996	272968
QC1	241109	263030
QC1		
QC1		
QC2	218836	238549
QC2	224610	244840
QC2		
QC2		
QC2		
QC2		

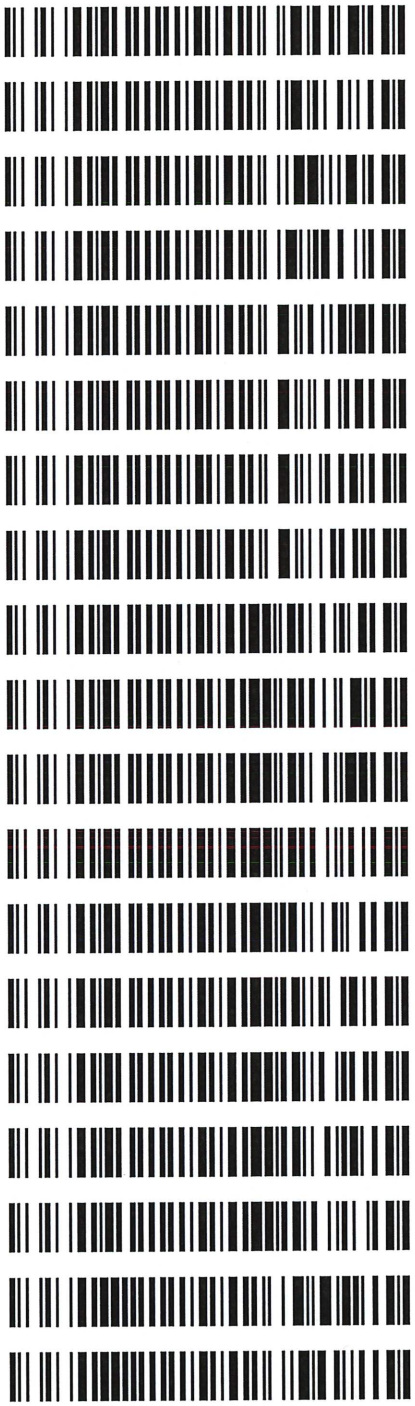
	Average	(-)20%	(+)20%
Column 1	215593.1	172474.5	258711.8
Column 2	235133.8	188107.0	282160.5

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

8/11/2022

Worklist: 6063

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
M2022-3109	1	BCK	Alcohol Analysis
M2022-3132	1	BCK	Alcohol Analysis
M2022-3141	1	BCK	Alcohol Analysis
M2022-3142	1	BCK	Alcohol Analysis
M2022-3173	1	BCK	Alcohol Analysis
M2022-3174	1	BCK	Alcohol Analysis
M2022-3175	1	BCK	Alcohol Analysis
M2022-3176	1	BCK	Alcohol Analysis
M2022-3242	1	BCK	Alcohol Analysis
M2022-3243	1	BCK	Alcohol Analysis
M2022-3245	1	BCK	Alcohol Analysis
M2022-3246	1	BCK	Alcohol Analysis
M2022-3278	2	BCK	Alcohol Analysis
M2022-3295	1	BCK	Alcohol Analysis
M2022-3296	1	BCK	Alcohol Analysis
M2022-3298	1	BCK	Alcohol Analysis
M2022-3299	1	BCK	Alcohol Analysis
P2022-2366	1	BCK	Alcohol Analysis
P2022-2382	1	BCK	Alcohol Analysis



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Idaho State Police
Forensic Services

Request for Departure from an Analytical Method or Quality Standard

Deviation Number (assigned by QM): ISP DEV BLA-22-02

Date of Request: 7/29/22

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

Analytical Method/Quality Standard, Revision #: **4.3.9.1.3 revision 10**

Temporary or Permanent Deviation: Permanent

Scope of Deviation (record specific information, e.g. affected programs, evidence types, expected end date; etc):

Blood alcohol and other volatiles

Deviation Request (Describe detailed instructions of the changes being made; include reference to specific section number(s) in the method manual):
4.3.9.1.3 revision 10
Acceptable IS recovery values for samples run with a specific calibration curve must have their FID1 and FID2 IS values fall within +/- 20% of the mean values established in 4.3.9.1.1.

Request to add the word "case" between for and samples so it reads:
"Acceptable IS recovery values for **case** samples run with…"

Technical Justification for Analytical Method Deviations:
This was discussed and agreed upon in previous Alcohol Discipline meetings. This additional clarification will minimize any potential misinterpretations of the requirement.

Technical Review

☒ Departure approved
Comments: This will work for the immediate future until the method can be updated in a permanent manner. This deviation will be in effect until 12/31/2022 when the method will be updated to reflect the new language and understanding of the internal standard monitoring.

☐ Departure Not Approved
Comments:

Approver: Jeremy Johnston Date: 8/3/2022 Jeremy Johnston
Title: Volatiles Analysis Discipline Lead

Quality Review

Quality Approver: Corinna Owsley Corinna C Owsley
Title: Acting Quality Manager
Date: 8/4/2022

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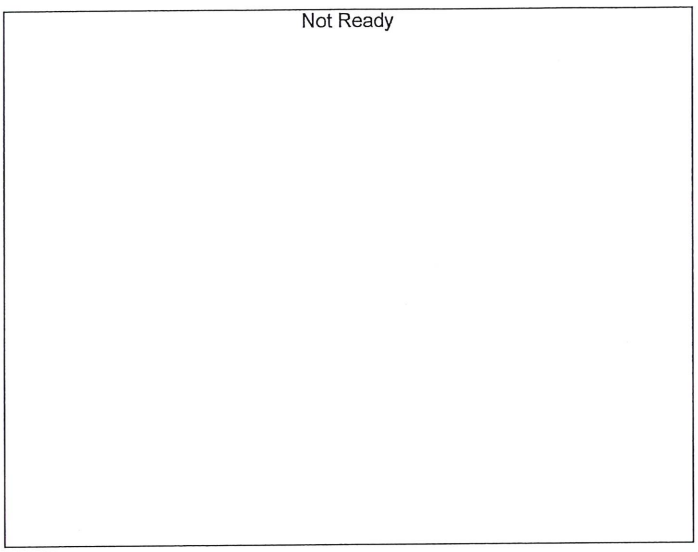
Calibration Table

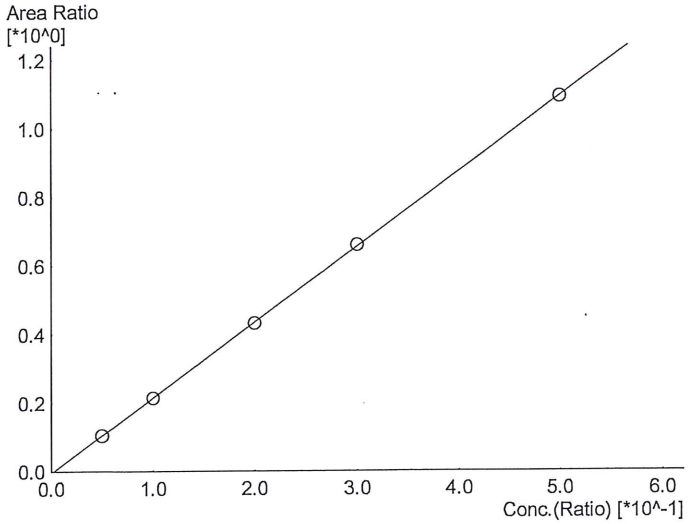
Laboratory : MERIDIAN
Instrument Name : GC-HS
Instrument Serial # : C12595800409 / C12255750548

<<Data File>>
Method File :C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
Batch File :C:\LabSolutions\Data\220728B\CALIBRATION\CALCURVE_TEMPLATE.gcb
Date Acquired :7/28/2022 12:40:35 PM
Date Created :7/28/2022 12:35:21 PM
Date Modified :7/28/2022 12:43:36 PM



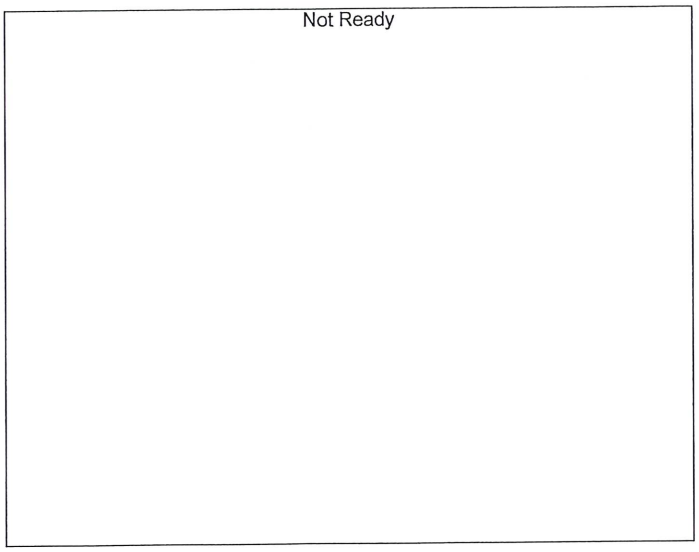
Name : Methanol
Detector Name: FID1
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.



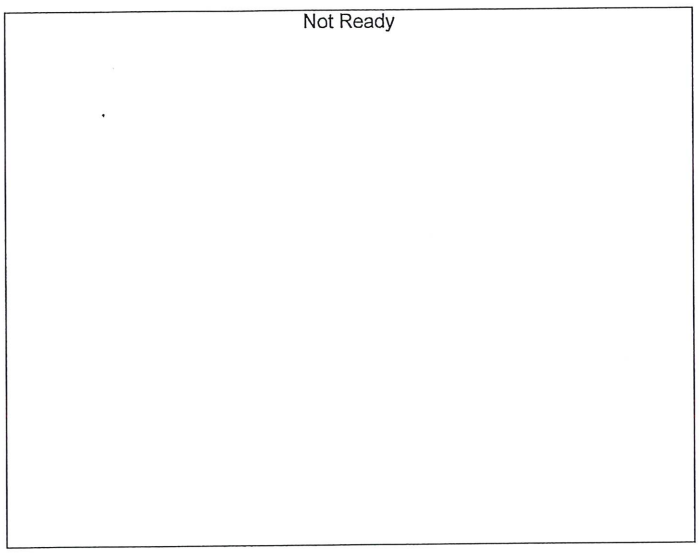
Name : Ethanol
Detector Name: FID1
Function : f(x)=2.19860*x-0.00541107
R^2 value= 0.9999390
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
1	0.050	21283	0.0498
2	0.100	46309	0.1000
3	0.200	86991	0.1986
4	0.300	137252	0.3023
5	0.500	229114	0.4991



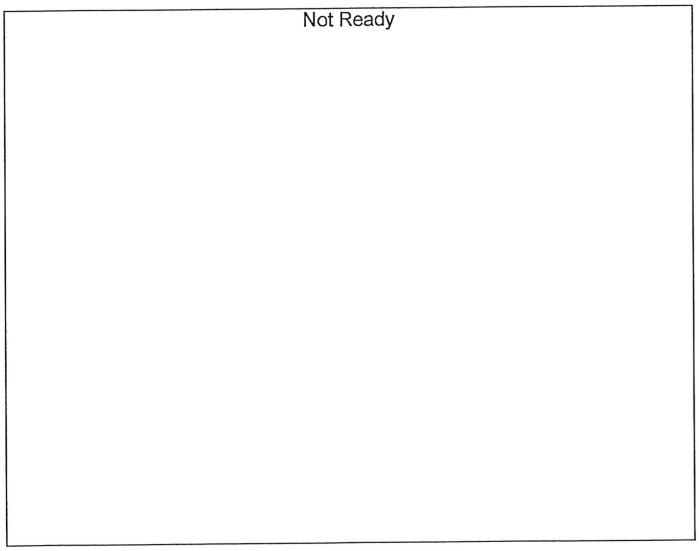
Name : Isopropyl Alcohol
Detector Name: FID1
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.



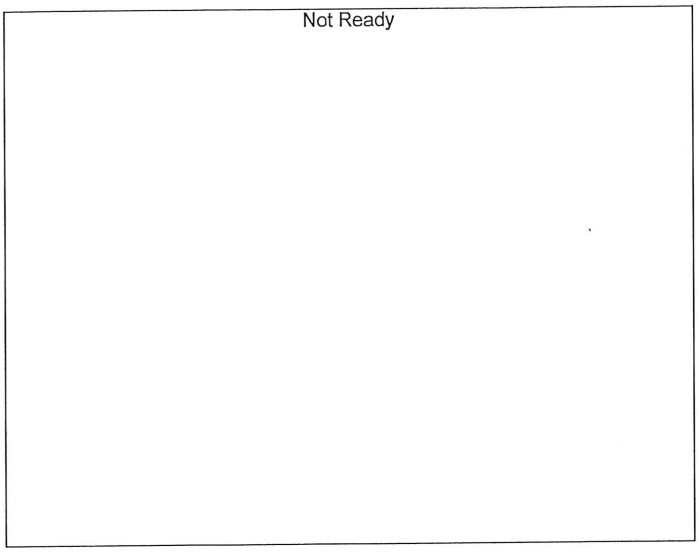
Name : Acetone
Detector Name: FID1
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.



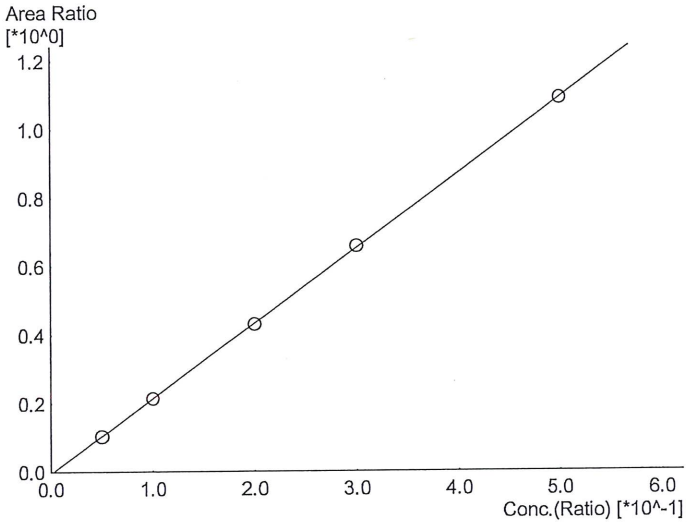
Name : Fluor. Hydrocarbon(s)
Detector Name: FID1
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.



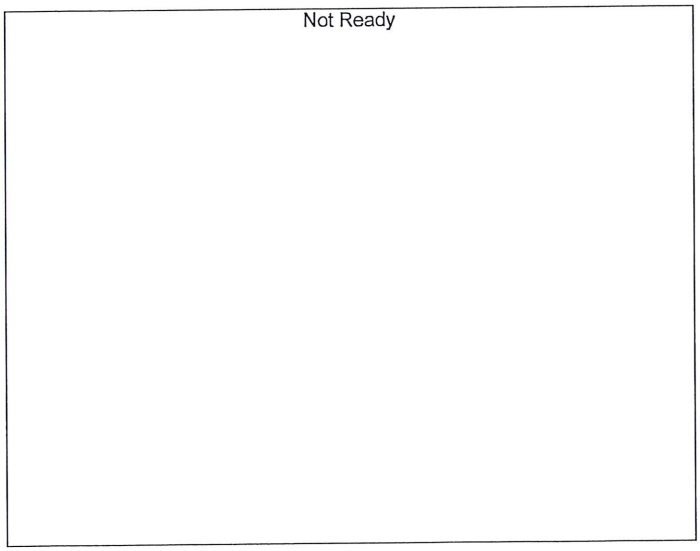
Name : Methanol
Detector Name: FID2
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.



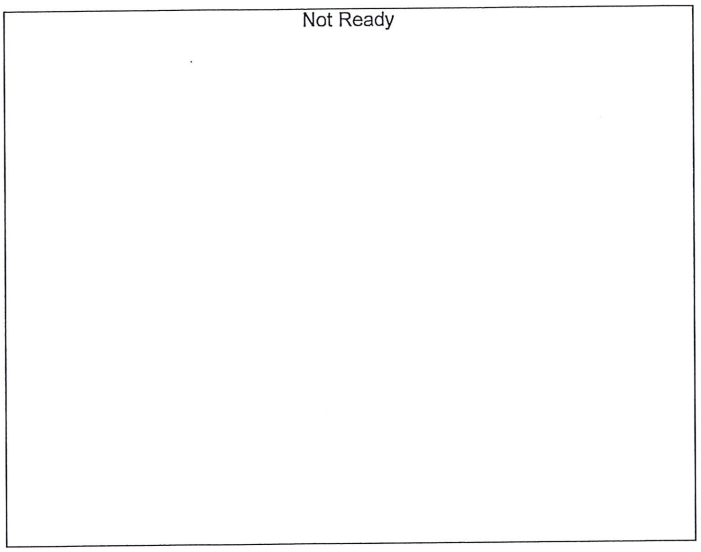
Name : Ethanol
Detector Name: FID2
Function : f(x)=2.19376*x-0.00608979
R^2 value= 0.9999314
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
1	0.050	22932	0.0497
2	0.100	50148	0.0999
3	0.200	94360	0.1987
4	0.300	149016	0.3024
5	0.500	248542	0.4990



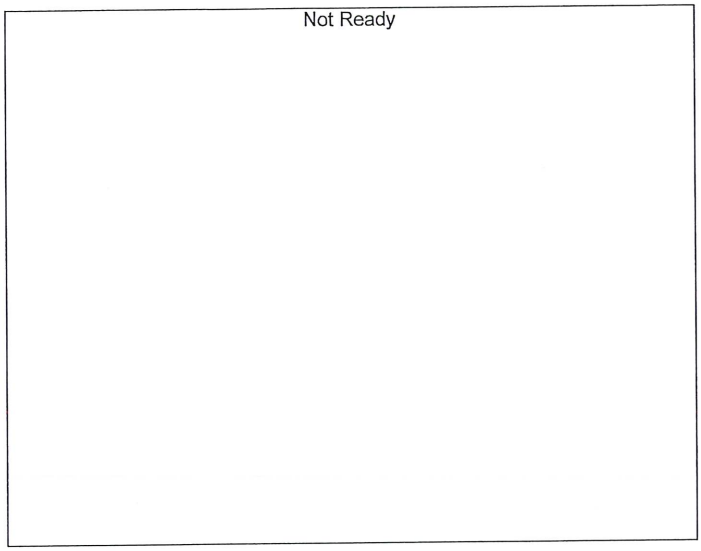
Name : Acetone
Detector Name: FID2
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	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

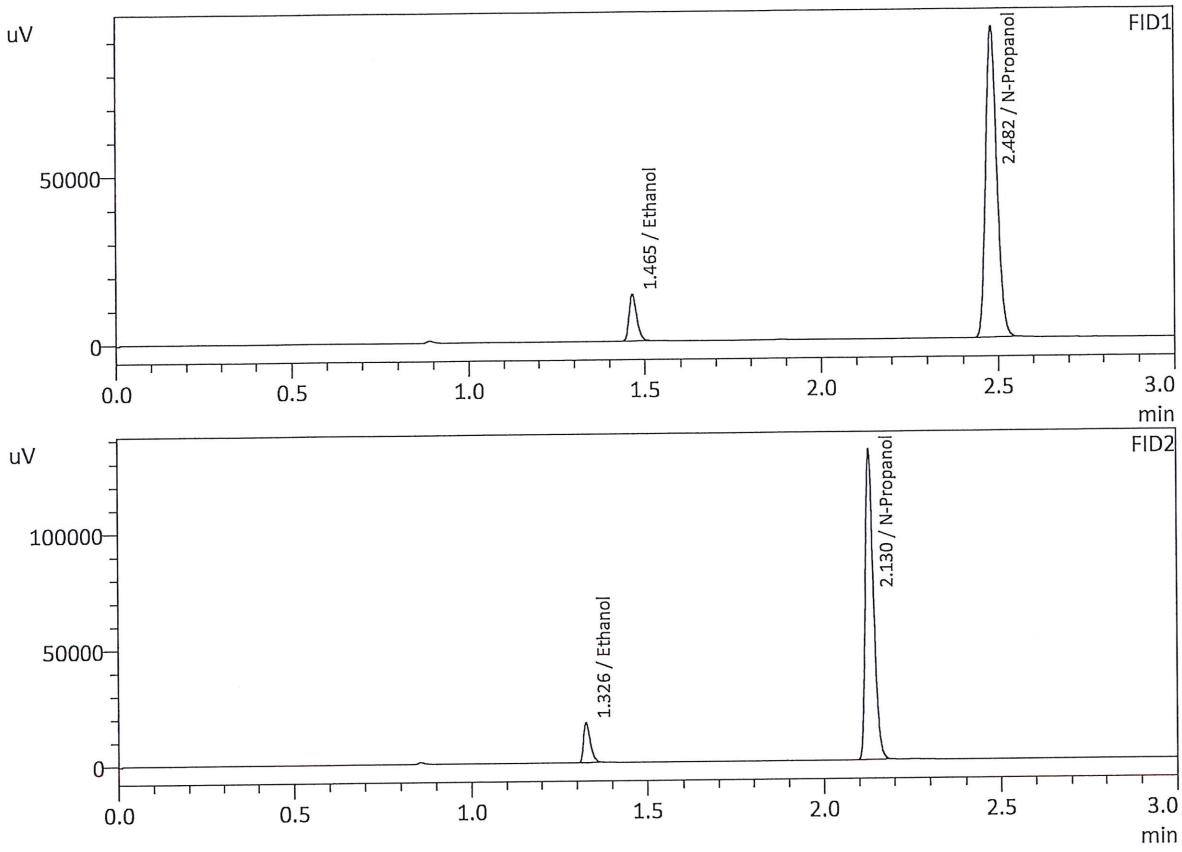
#	Conc.	Area	Std. Conc.

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
59	0.050	1:Standard:(I)	1	ALCOHOL.GCM
60	0.100	1:Standard	2	ALCOHOL.GCM
61	0.200	1:Standard	3	ALCOHOL.GCM
62	0.300	1:Standard	4	ALCOHOL.GCM
63	0.500	1:Standard	5	ALCOHOL.GCM
64	INT STD BLK	0:Unknown	0	ALCOHOL.GCM

Sample Name : 0.050
Laboratory : Meridian
Injection Date : 7/28/2022 12:08:39 PM
Vial # : 59
Method Filename : C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0498	21283	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	204427	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0497	22932	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	222611	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

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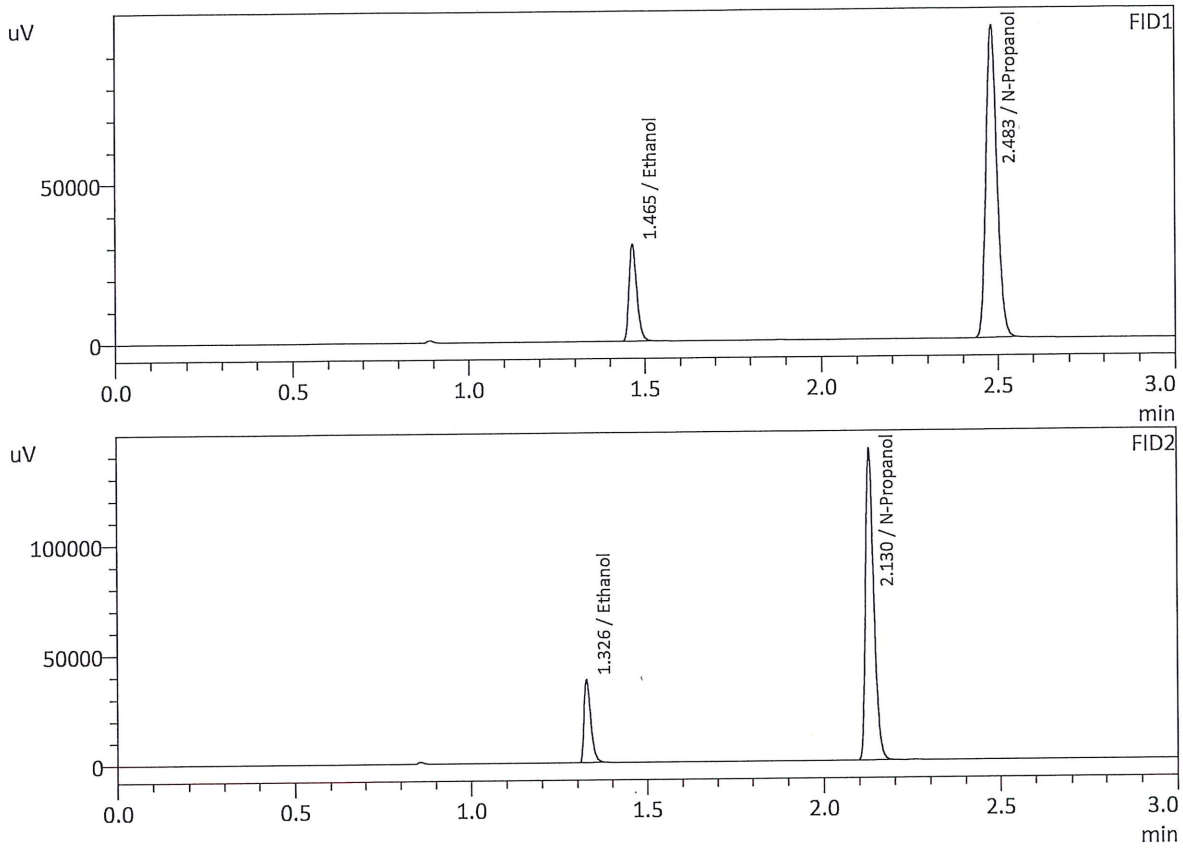
Sample Name : 0.100
Laboratory : Meridian
Injection Date : 7/28/2022 12:15:53 PM
Vial # : 60
Method Filename : C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1000	46309	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	215868	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0999	50148	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	235191	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

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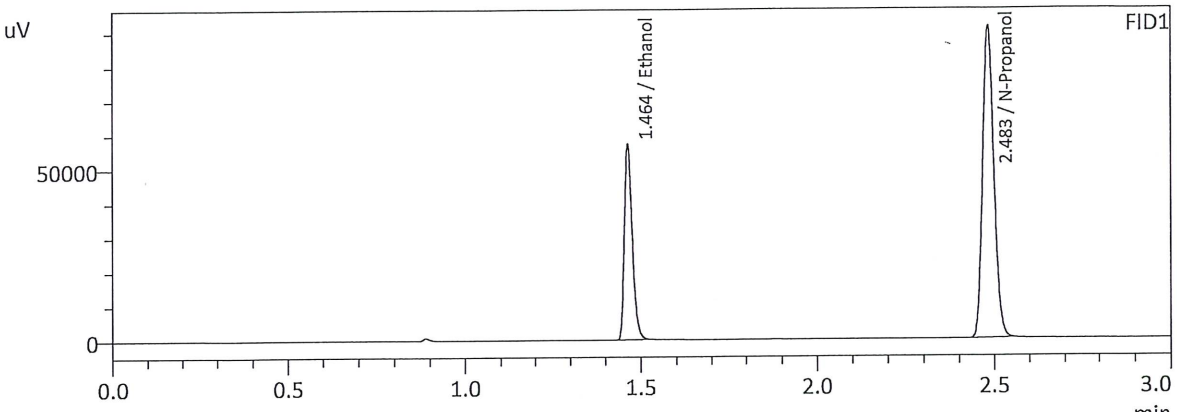
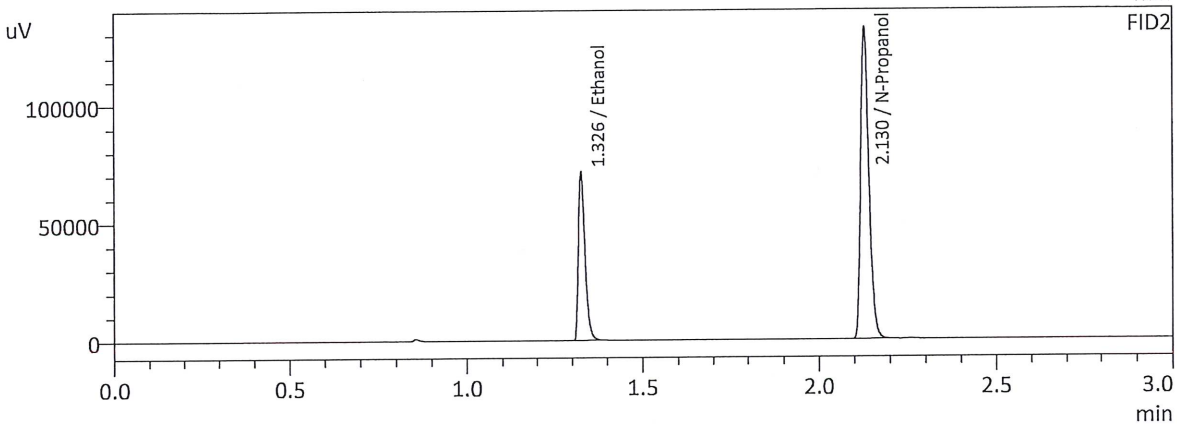
Sample Name : 0.200
Laboratory : Meridian
Injection Date : 7/28/2022 12:23:22 PM
Vial # : 61
Method Filename : C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409





FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1986	86991	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	201633	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1987	94360	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	219459	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

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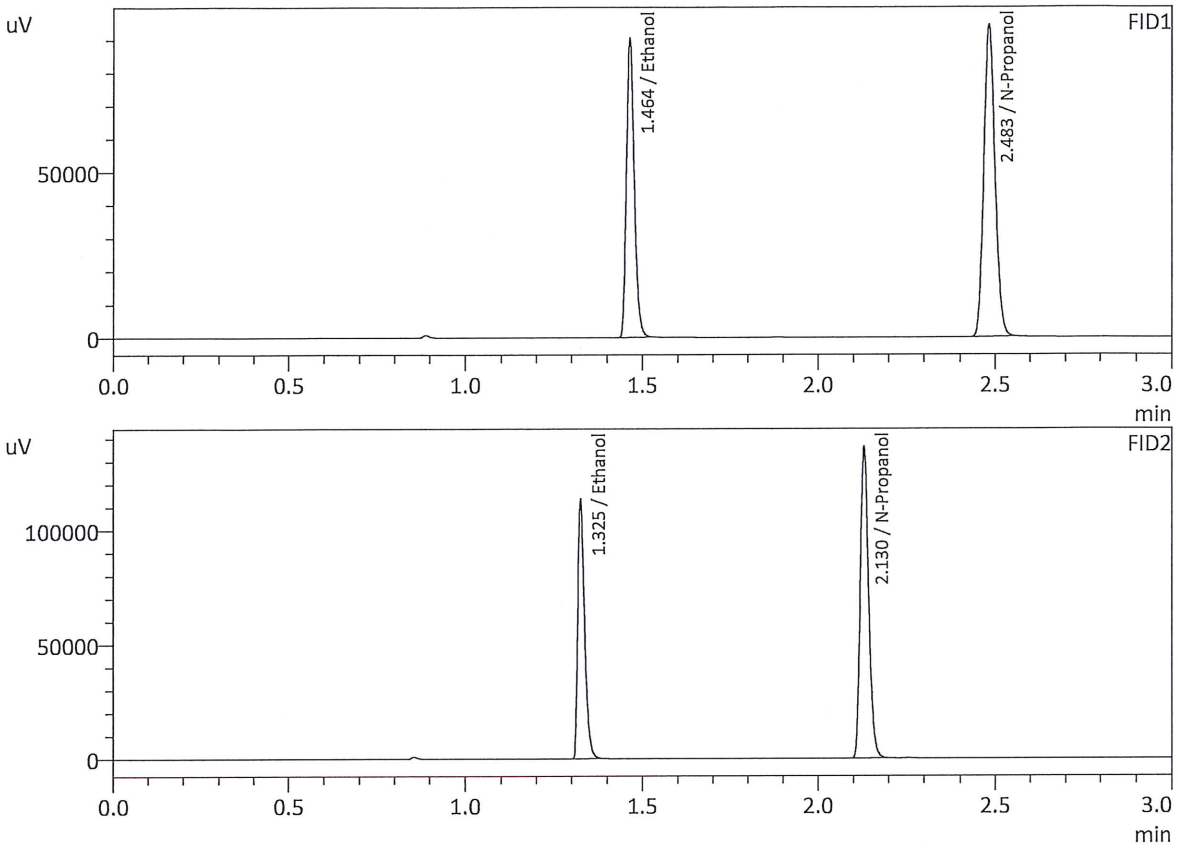
Sample Name : 0.300
Laboratory : Meridian
Injection Date : 7/28/2022 12:32:13 PM
Vial # : 62
Method Filename : C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.3023	137252	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	208194	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.3024	149016	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	226633	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

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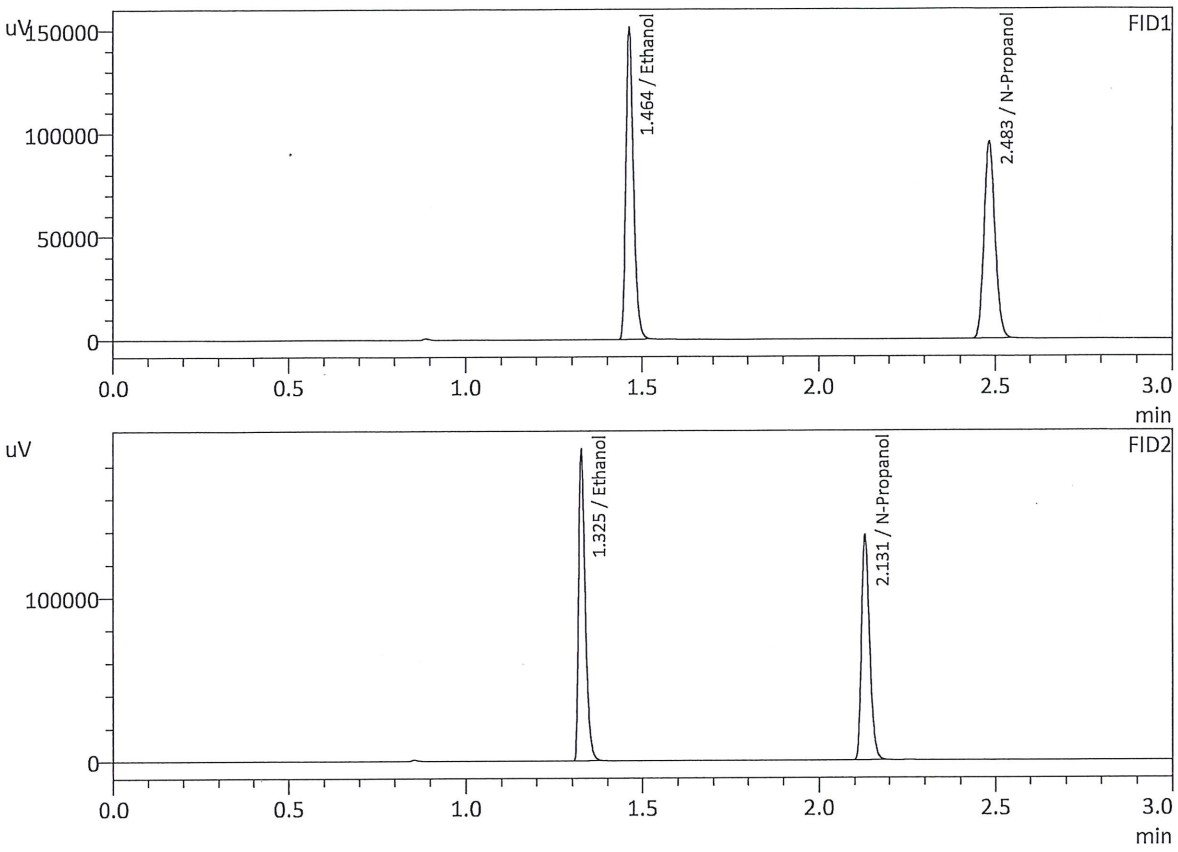
Sample Name : 0.500
Laboratory : Meridian
Injection Date : 7/28/2022 12:40:35 PM
Vial # : 63
Method Filename : C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



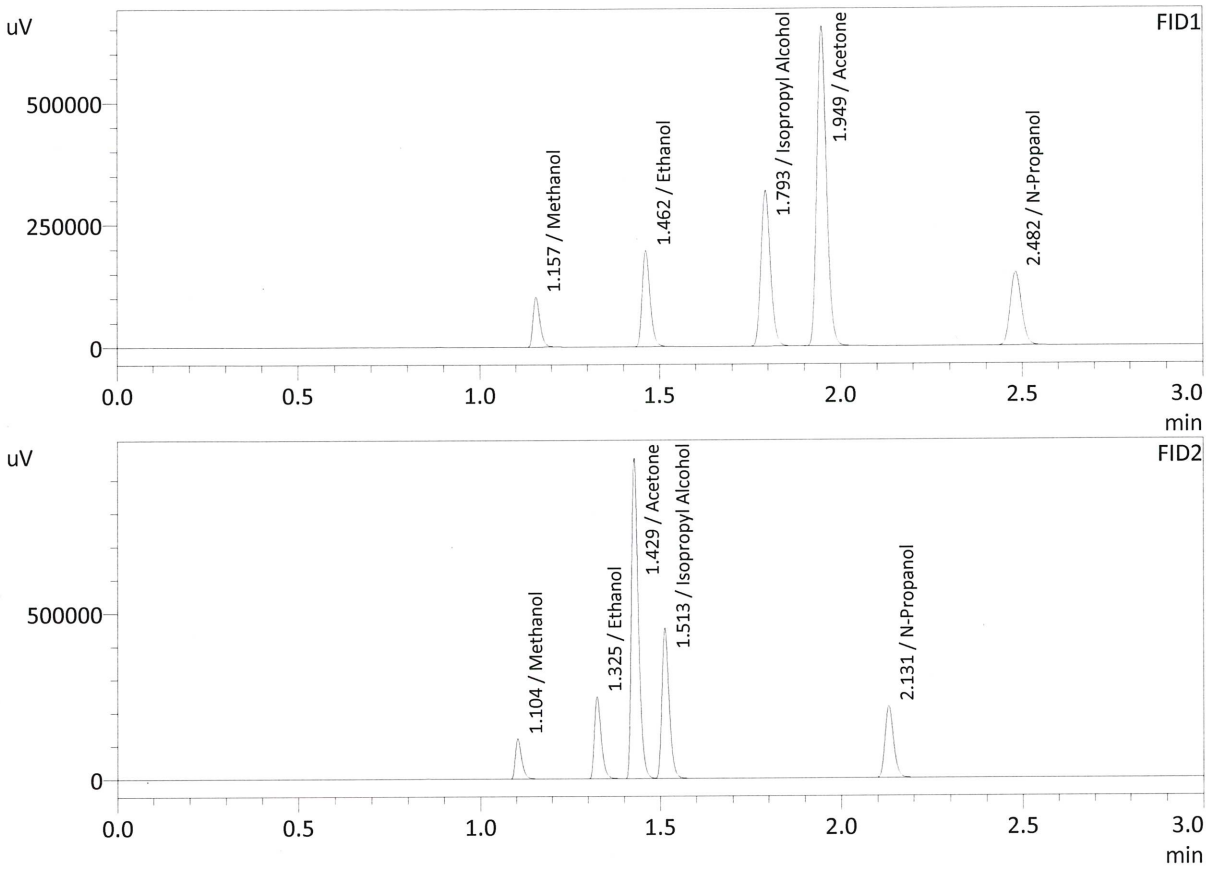
FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.4991	229114	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	209808	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.4990	248542	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	228303	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

Sample Name : MIXED VOLATILES FN 06041902
Laboratory : Meridian
Injection Date : 8/10/2022 12:06:40 PM
Vial # : 2
Method Filename : C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	0.0000	138528	g/100cc
Ethanol	0.4159	299968	g/100cc
Isopropyl Alcohol	0.0000	582512	g/100cc
Acetone	0.0000	1197873	g/100cc
N-Propanol	0.0000	329933	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	0.0000	150767	g/100cc
Ethanol	0.4167	325567	g/100cc
Acetone	0.0000	1292078	g/100cc
Isopropyl Alcohol	0.0000	630183	g/100cc
N-Propanol	0.0000	358491	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

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VOLATILES BAC CASEFILE WORKSHEET

Laboratory No.: QA 0.08 **Item #** **Analysis Date(s): 08/10/2022**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0771	0.0771	0.0000	0.0771	0.0022	0.0782
(g/100cc)	0.0794	0.0793	0.0001	0.0793		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information *Instrument information is stored centrally.*

Refer to Instrument Method: Alcohol.m/.gcm, Volatiles.m/.gcm

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

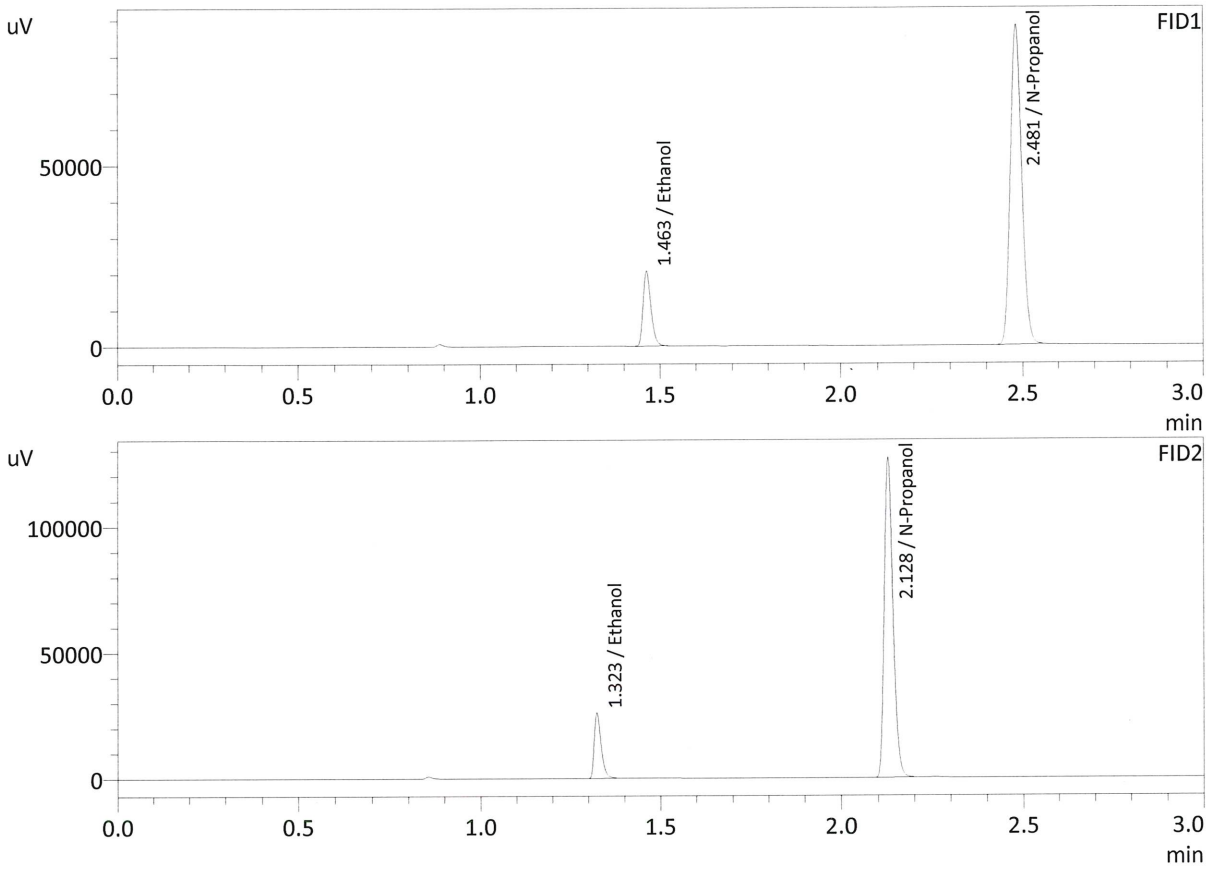
Overall Mean (g/100cc)	Low	High	5% of Mean
0.078	**0.074**	**0.082**	**0.004**

Reported Result

0.078

Calibration and control data are stored centrally.

Sample Name : 0.08 QA-A
Laboratory : Meridian
Injection Date : 8/10/2022 12:30:28 PM
Vial # : 5
Method Filename : C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



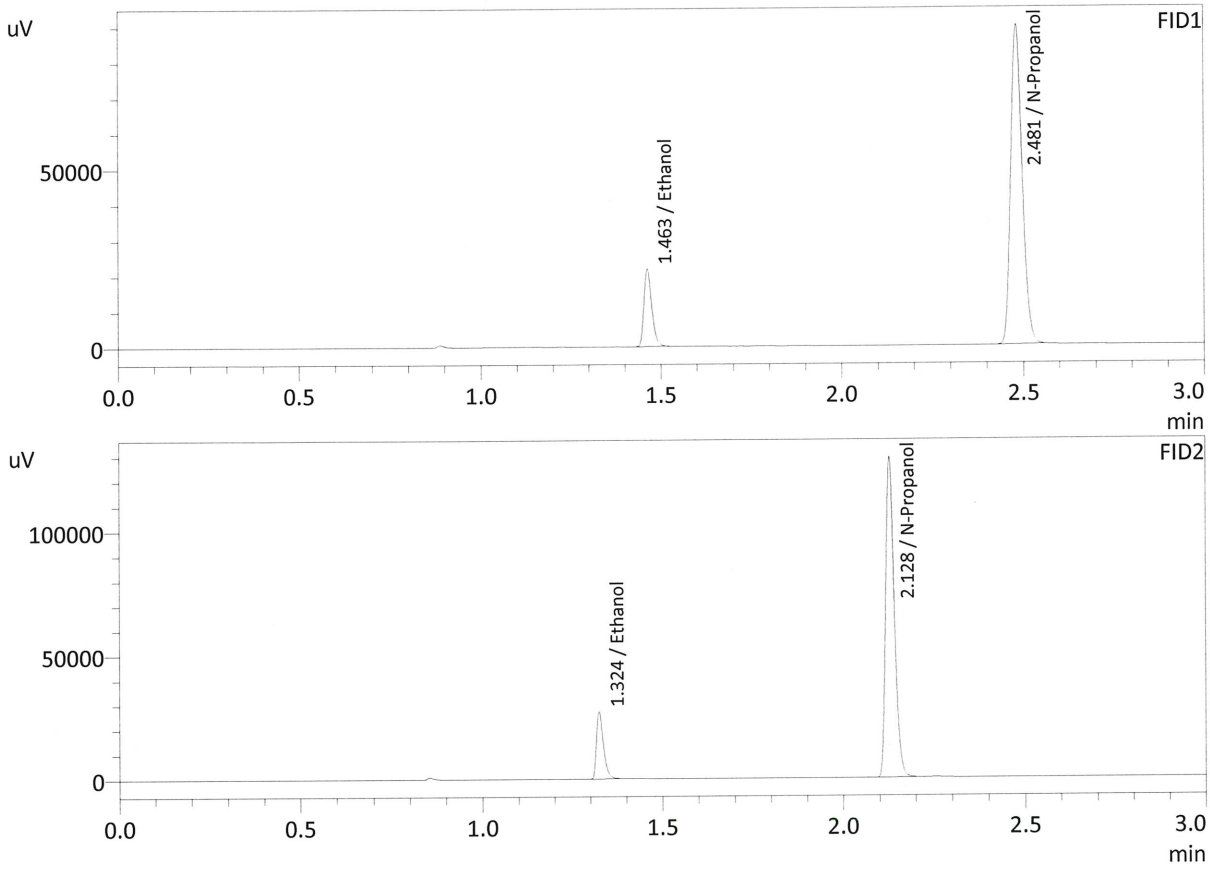
FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0771	31904	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	194258	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0771	34526	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	211714	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

Sample Name : 0.08 QA-B
Laboratory : Meridian
Injection Date : 8/10/2022 12:39:11 PM
Vial # : 6
Method Filename : C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0794	33441	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	197558	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0793	36193	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	215417	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

VOLATILES BAC CASEFILE WORKSHEET

Laboratory No.: QC 1-1 **Item #** **Analysis Date(s): 08/10/2022**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0730	0.0730	0.0000	0.0730	0.0016	0.0738
(g/100cc)	0.0745	0.0747	0.0002	0.0746		

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%**

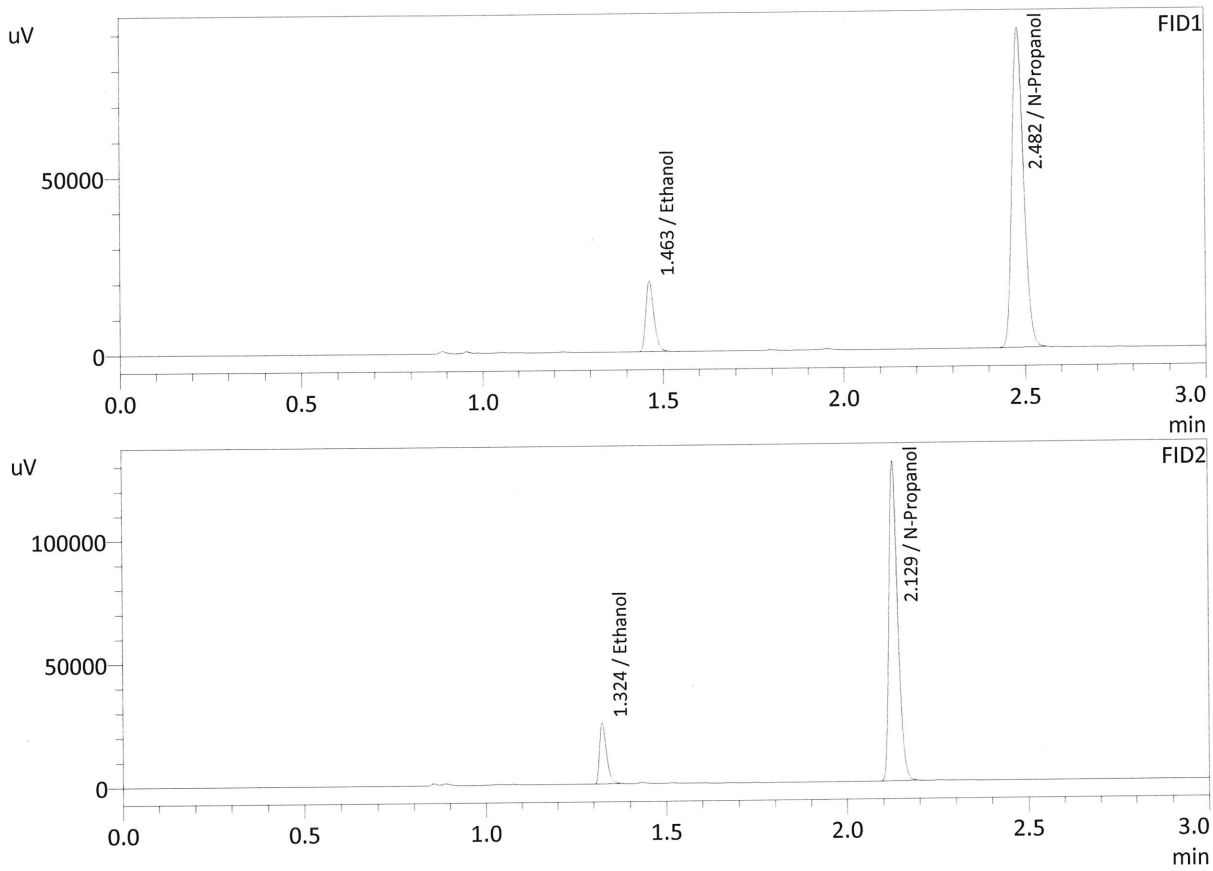
Overall Mean (g/100cc)	Low	High	5% of Mean
0.073	**0.069**	**0.077**	**0.004**

Reported Result

0.073

Calibration and control data are stored centrally.

Sample Name : QC-1-1-A
Laboratory : Meridian
Injection Date : 8/10/2022 12:14:18 PM
Vial # : 3
Method Filename : C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



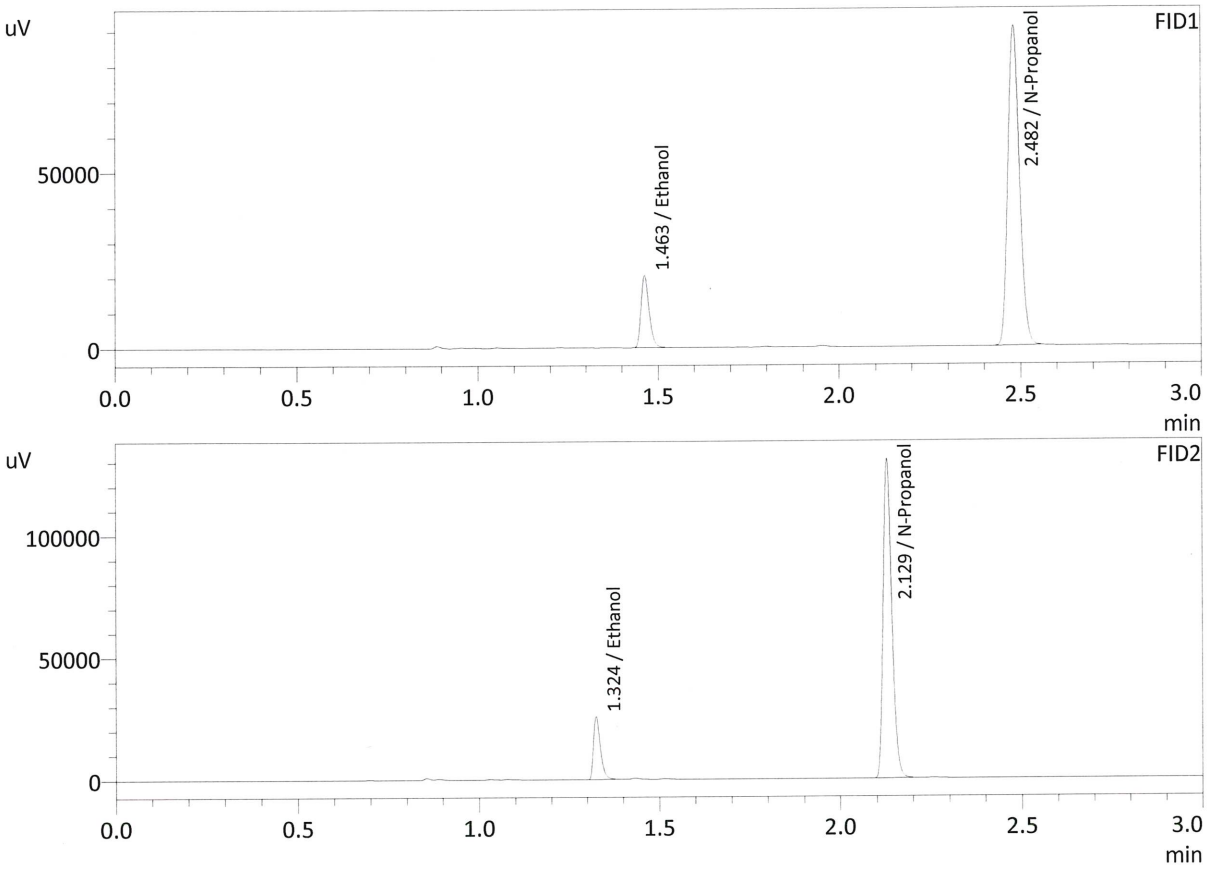
FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0730	30778	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	198381	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0730	33381	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	216464	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

Sample Name : QC-1-1-B
Laboratory : Meridian
Injection Date : 8/10/2022 12:22:48 PM
Vial # : 4
Method Filename : C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0745	31686	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	199997	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0747	34424	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	218088	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

VOLATILES BAC CASEFILE WORKSHEET

Laboratory No.: QC 1-2 **Item #** **Analysis Date(s): 08/10/2022**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0767	0.0767	0.0000	0.0767	0.0008	0.0771
(g/100cc)	0.0775	0.0776	0.0001	0.0775		

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%**

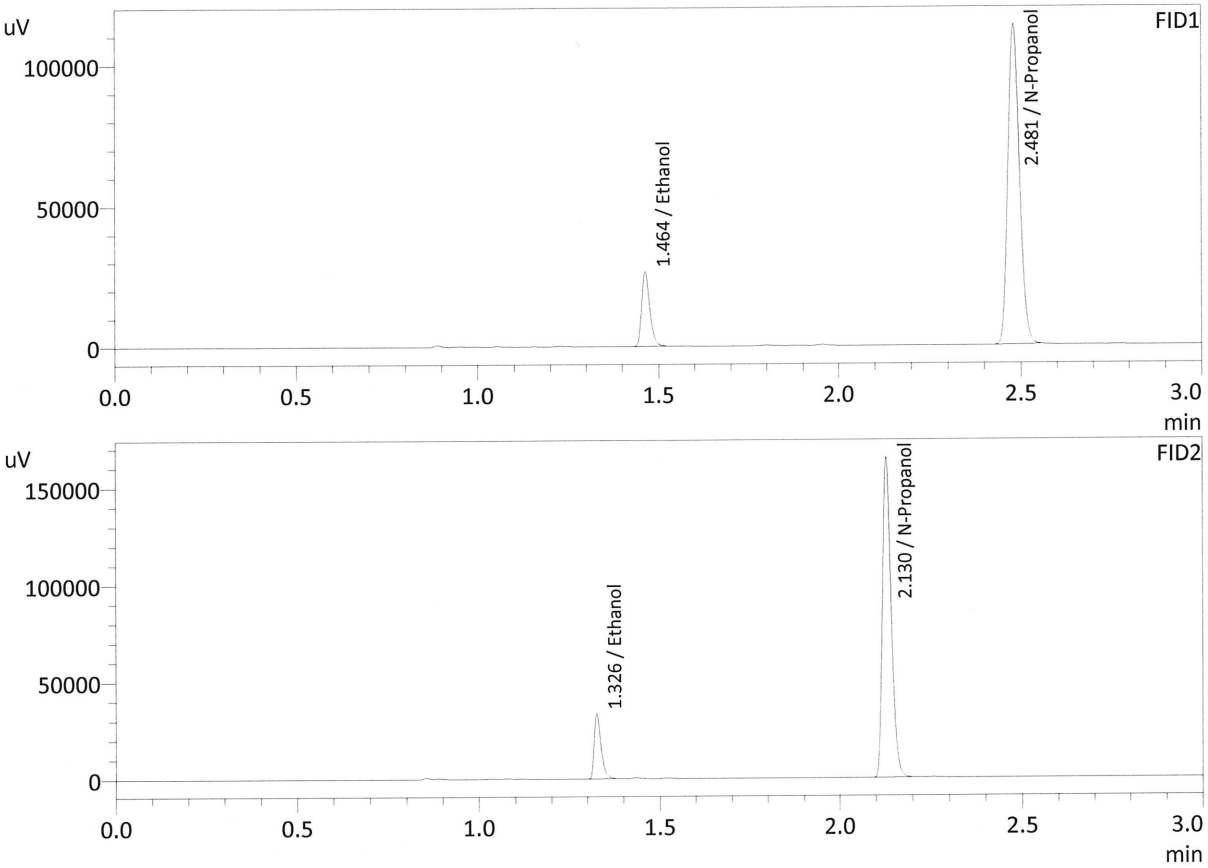
Overall Mean (g/100cc)	Low	High	5% of Mean
0.077	**0.073**	**0.081**	**0.004**

Reported Result

0.077

Calibration and control data are stored centrally.

Sample Name : QC1-2-A
Laboratory : Meridian
Injection Date : 8/10/2022 6:09:18 PM
Vial # : 47
Method Filename : C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



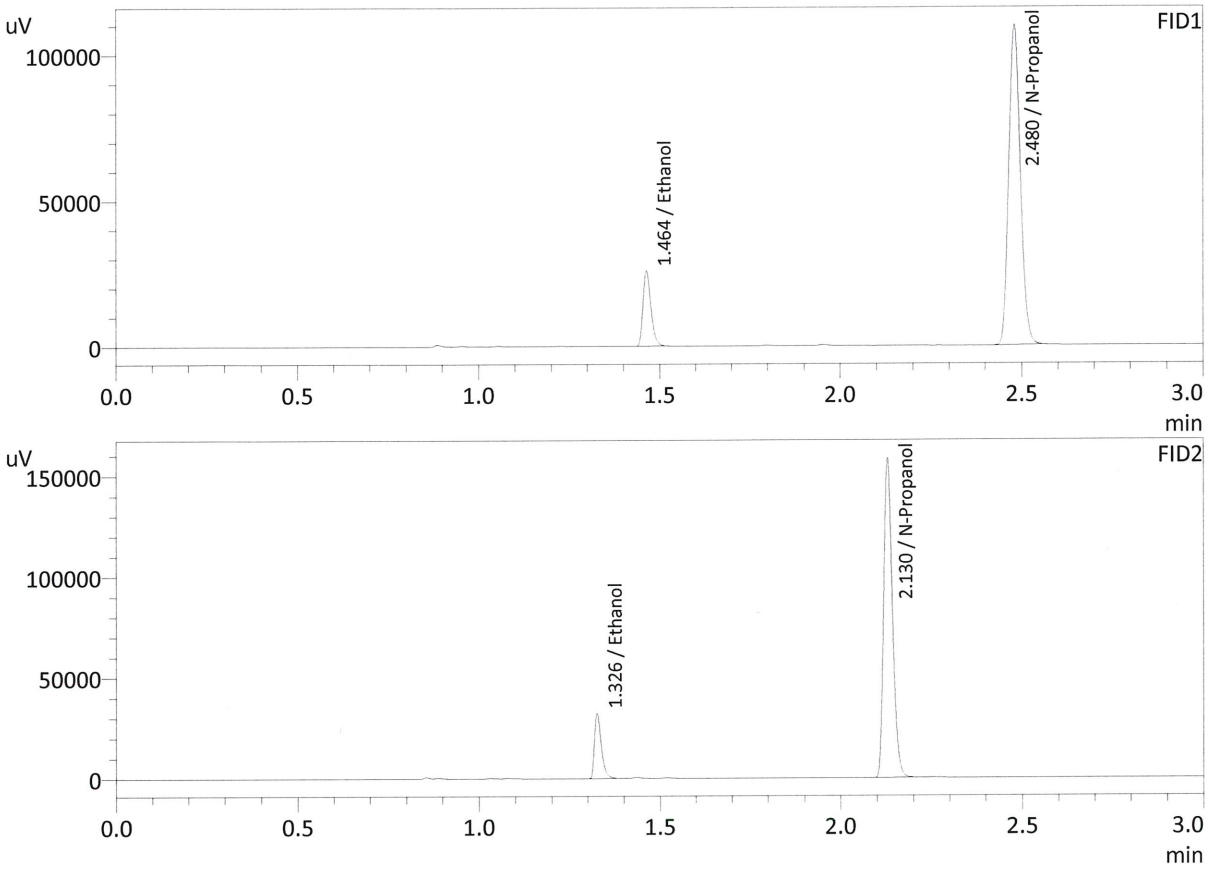
FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0767	40832	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	249996	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0767	44308	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	272968	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

Sample Name : QC1-2-B
Laboratory : Meridian
Injection Date : 8/10/2022 6:18:24 PM
Vial # : 48
Method Filename : C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0775	39812	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	241109	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0776	43184	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	263030	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

VOLATILES BAC CASEFILE WORKSHEET

Laboratory No.: QC 2-1 **Item #** **Analysis Date(s): 08/10/2022**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.2092	0.2095	0.0003	0.2093	0.0018	0.2102
(g/100cc)	0.2110	0.2113	0.0003	0.2111		

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

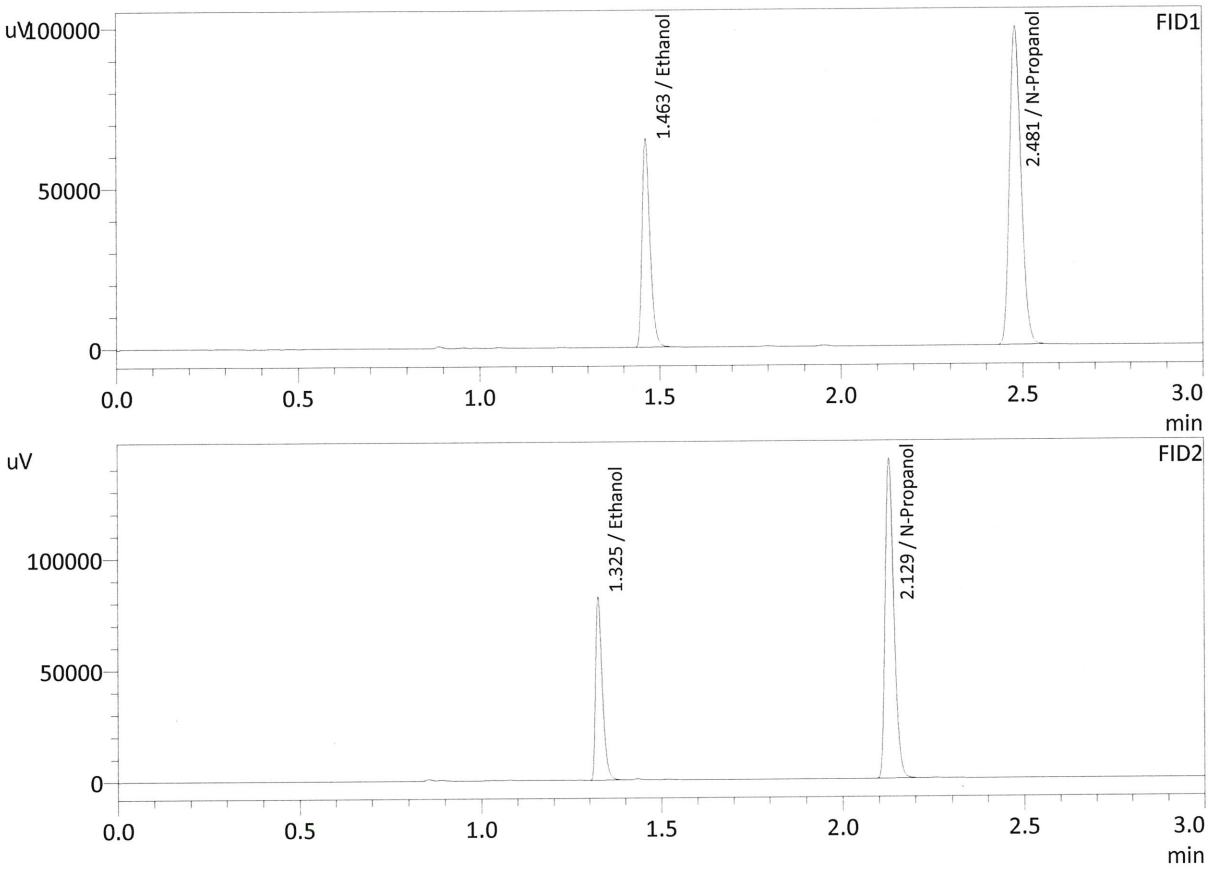
Reporting of Results **Uncertainty of Measurement (UM%): 5.00%**

Overall Mean (g/100cc)	Low	High	5% of Mean
0.210	0.199	0.221	0.011

	Reported Result	
	0.210	

Calibration and control data are stored centrally.

Sample Name : QC-2-1-A
Laboratory : Meridian
Injection Date : 8/10/2022 3:11:36 PM
Vial # : 25
Method Filename : C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



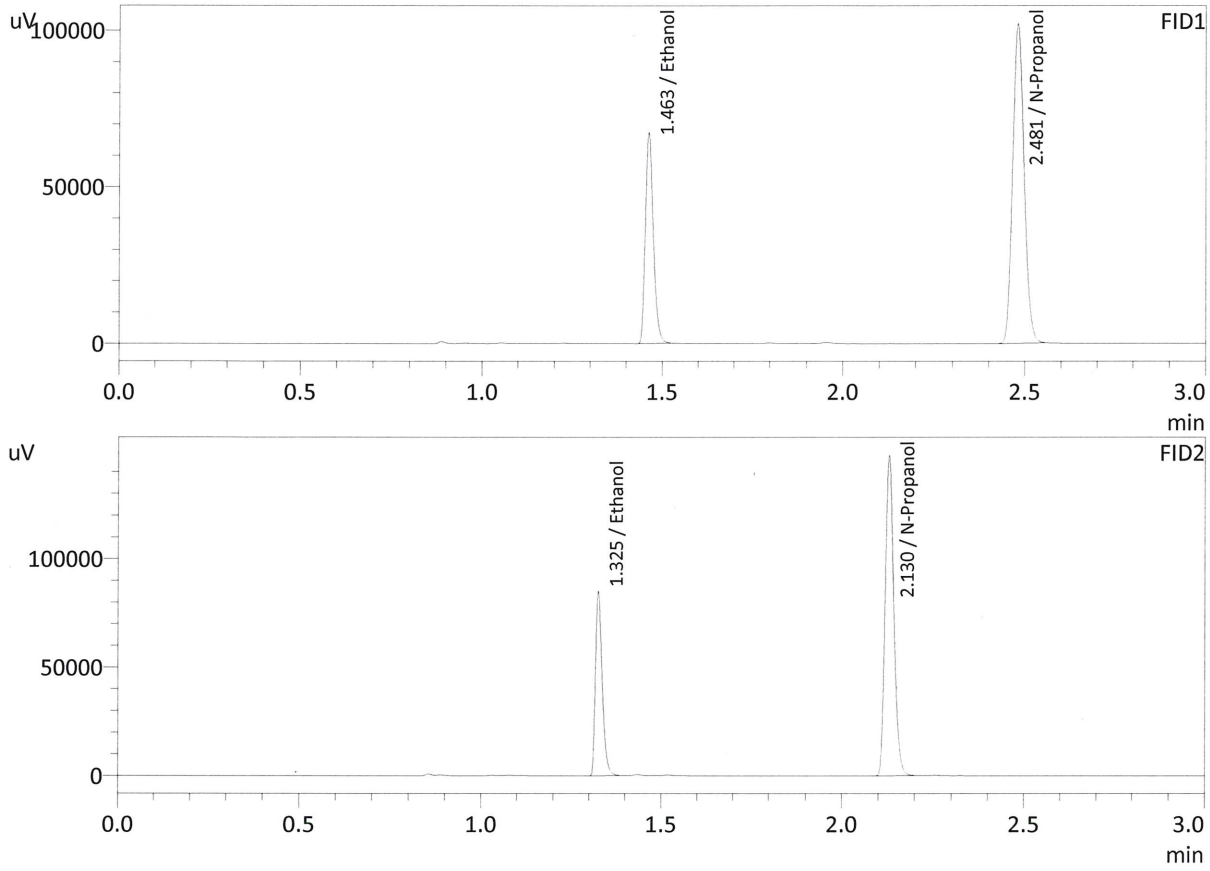
FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2092	99497	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	218836	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2095	108229	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	238549	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

Sample Name : QC-2-1-B
Laboratory : Meridian
Injection Date : 8/10/2022 3:19:16 PM
Vial # : 26
Method Filename : C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

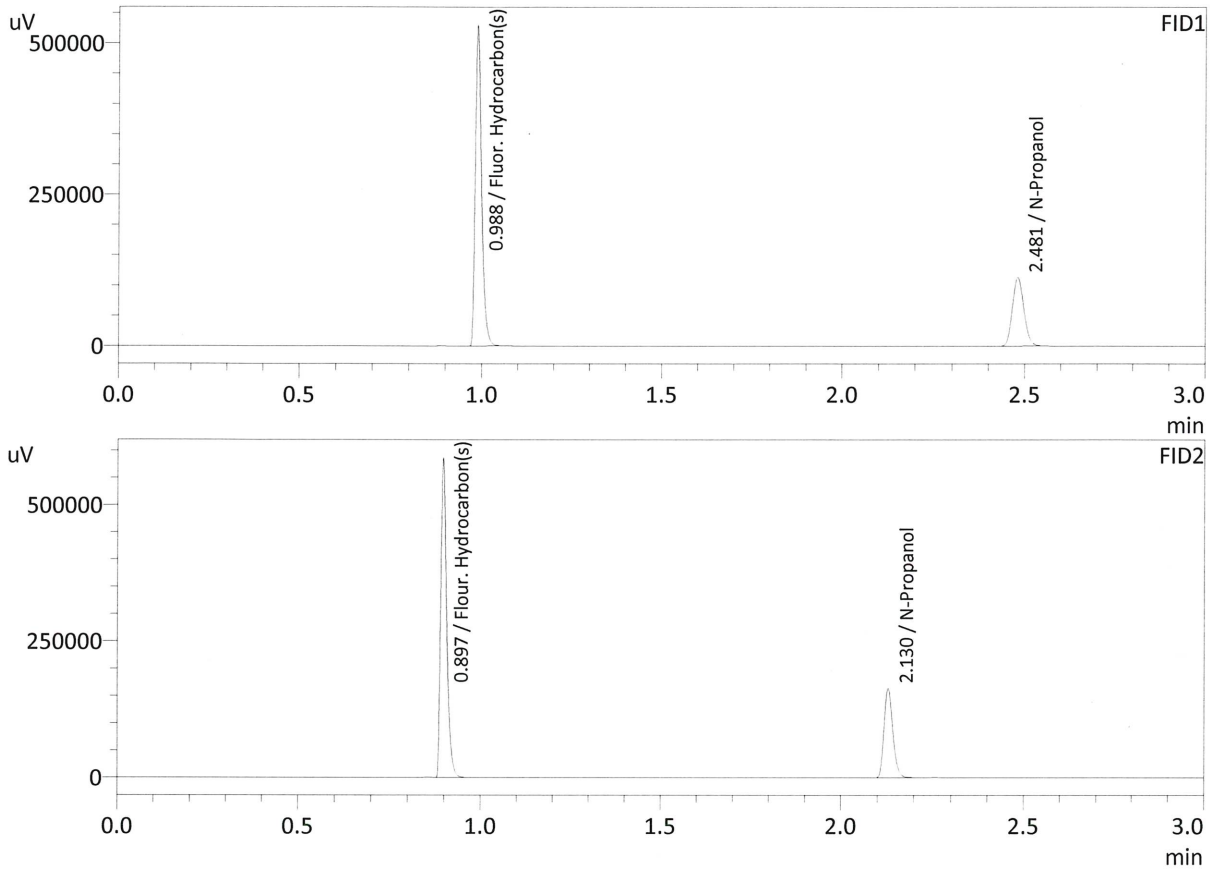
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2110	103025	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	224610	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2113	112013	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	244840	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : DFE 111914 0M
Laboratory : Meridian
Injection Date : 8/10/2022 6:34:13 PM
Vial # : 50
Method Filename : C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



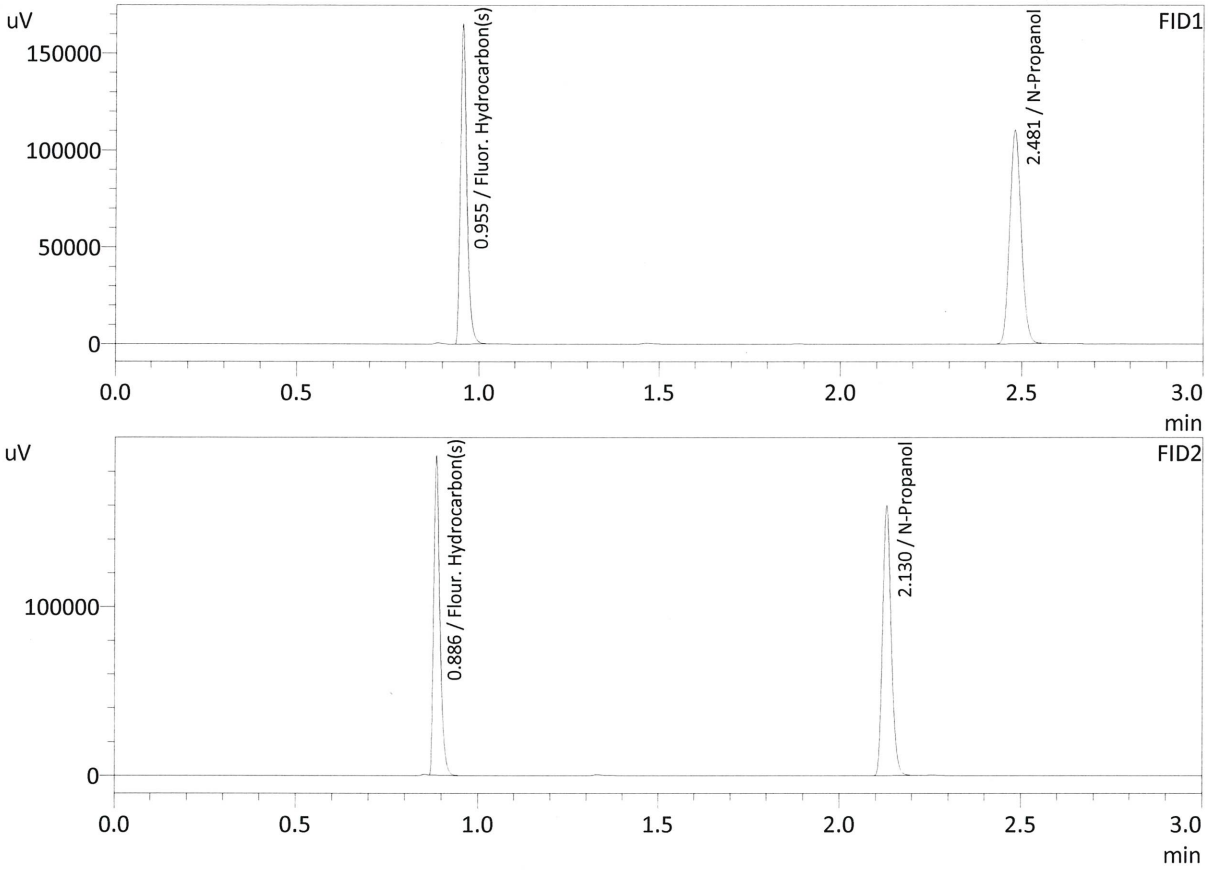
FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	249917	g/100cc
Fluor. Hydrocarbon(s)	0.0000	630846	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	272907	g/100cc
Flour. Hydrocarbon(s)	0.0000	678575	g/100cc

Sample Name : TFE 111914
Laboratory : Meridian
Injection Date : 8/10/2022 6:50:33 PM
Vial # : 52
Method Filename : C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



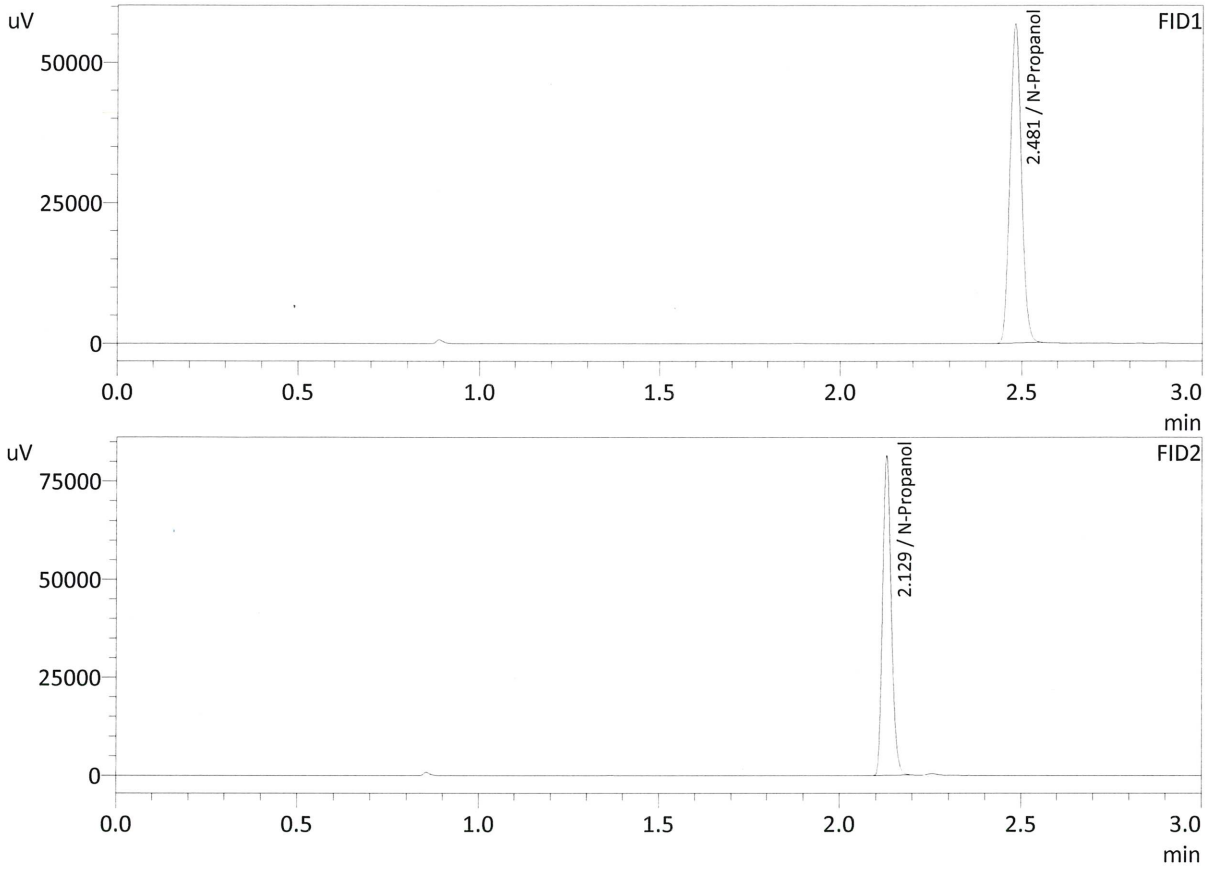
FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	242948	g/100cc
Fluor. Hydrocarbon(s)	0.0000	201431	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	265351	g/100cc
Flour. Hydrocarbon(s)	0.0000	218867	g/100cc

Sample Name : INT STD BLK 1
Laboratory : Meridian
Injection Date : 8/10/2022 11:59:19 AM
Vial # : 1
Method Filename : C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

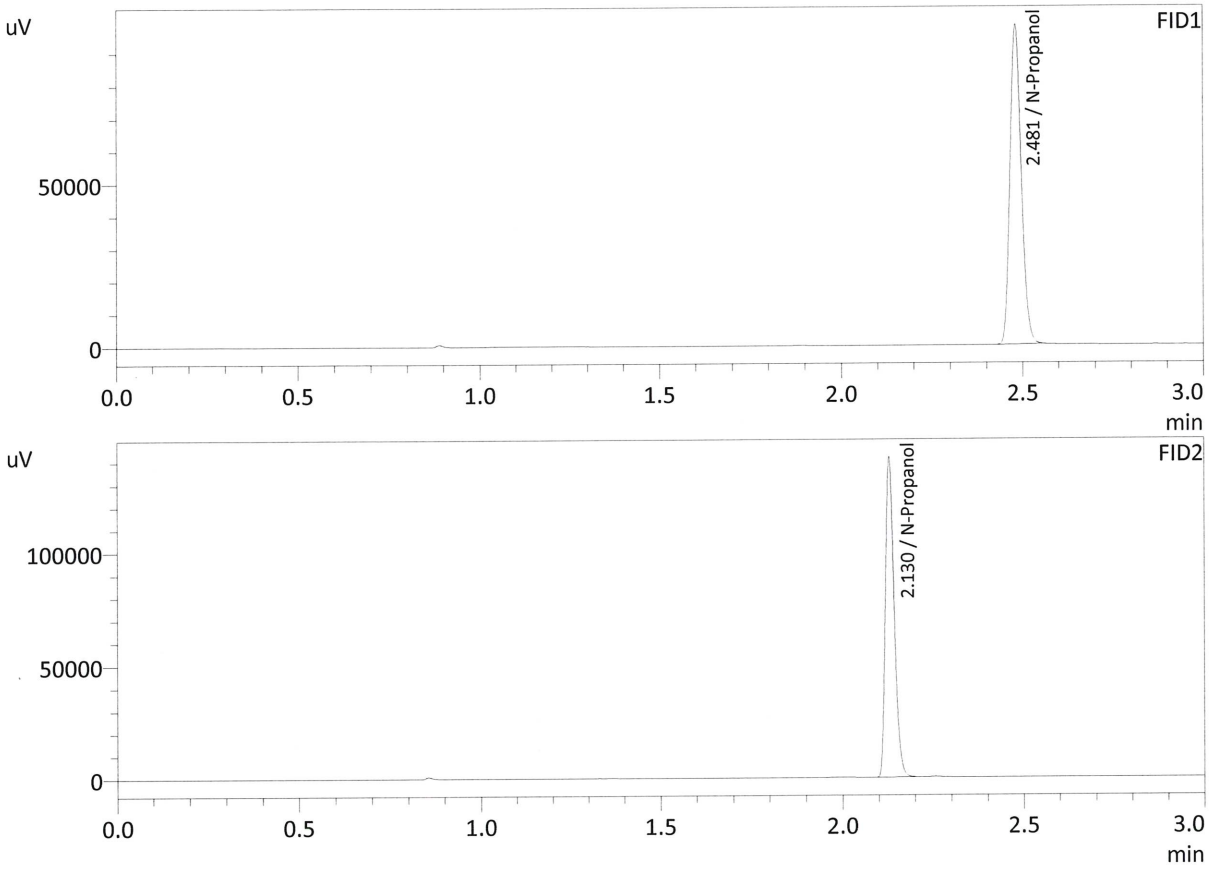
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	125442	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	136722	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : INT STD BLK 2
Laboratory : Meridian
Injection Date : 8/10/2022 6:25:37 PM
Vial # : 49
Method Filename : C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

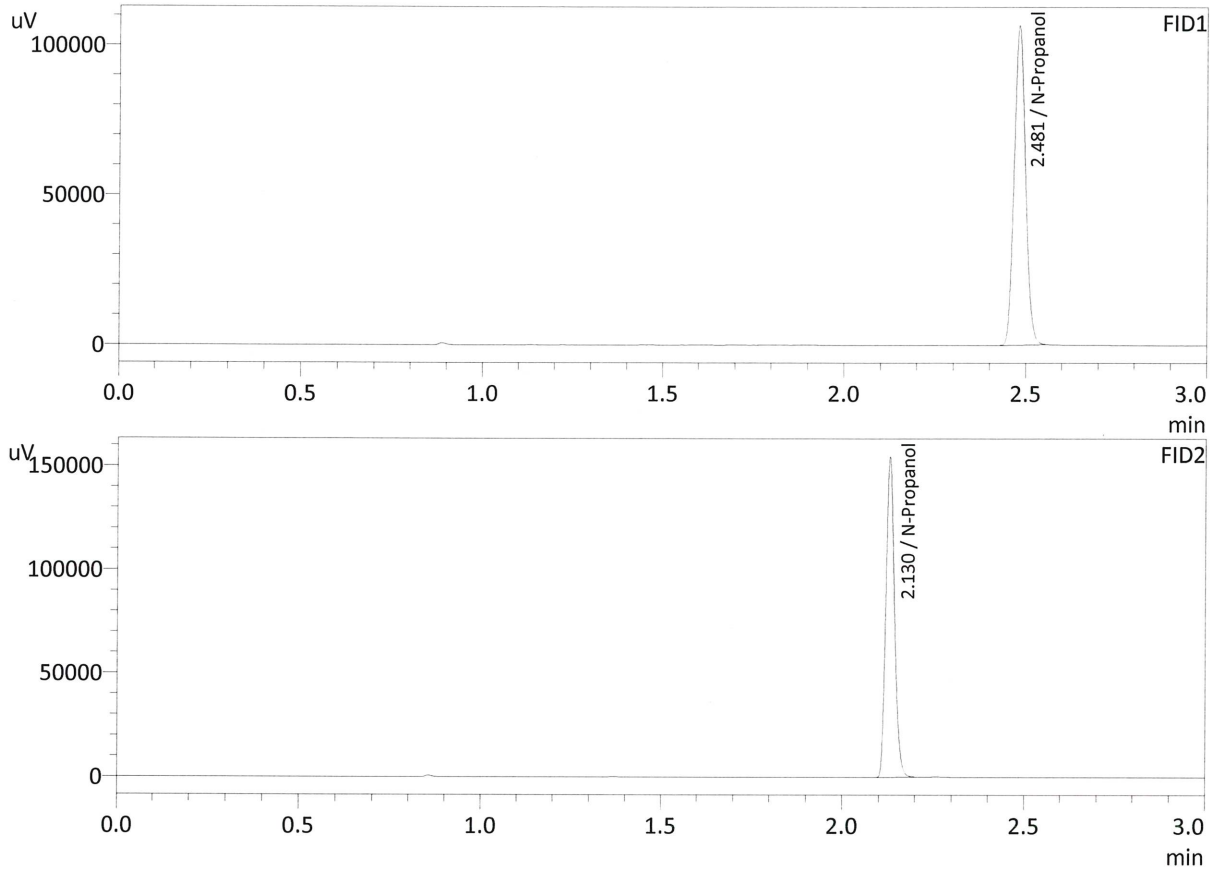
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	215574	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	235323	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : INT STD BLK 3
Laboratory : Meridian
Injection Date : 8/10/2022 6:43:20 PM
Vial # : 51
Method Filename : C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

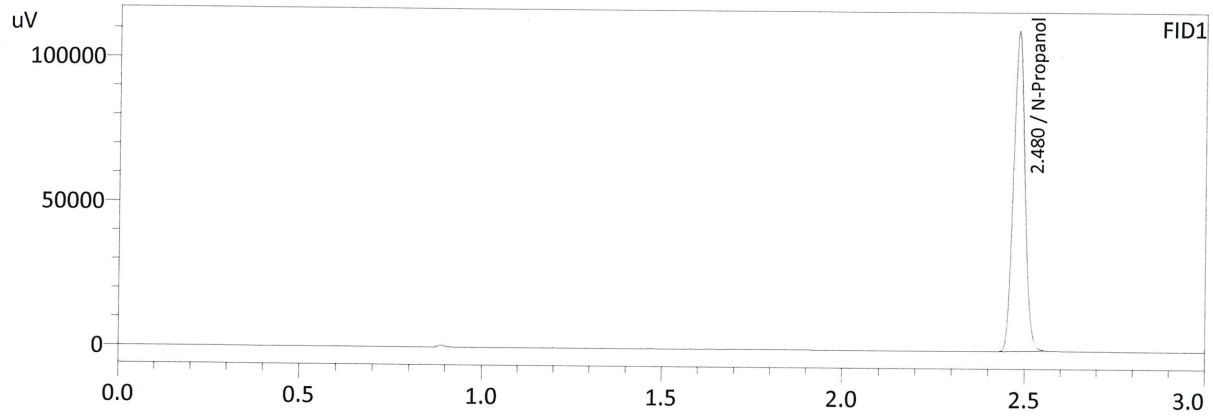
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	234884	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

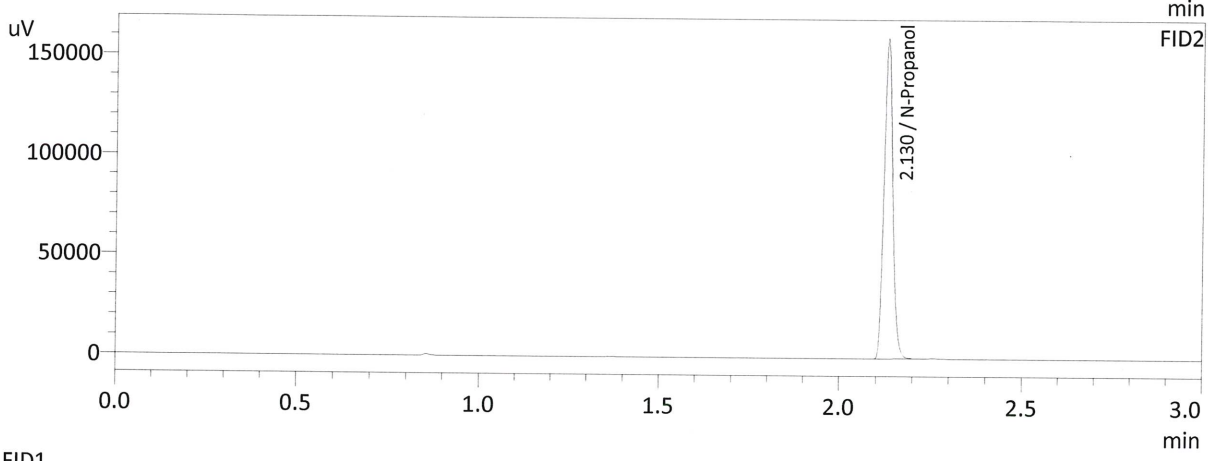
FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	256442	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : INT STD BLK 4
Laboratory : Meridian
Injection Date : 8/10/2022 6:58:57 PM
Vial # : 53
Method Filename : C:\LabSolutions\Data\220728B\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	243512	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	265811	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

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\220728B\CALIBRATION\ALCOHOL.GCM
2	ED VOLATILES FN 0604	C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
3	QC-1-1-A	C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
4	QC-1-1-B	C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
5	0.08 QA-A	C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
6	0.08 QA-B	C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
7	M2022-3109-1-A	C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
8	M2022-3109-1-B	C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
9	M2022-3132-1-A	C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
10	M2022-3132-1-B	C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
11	M2022-3141-1-A	C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
12	M2022-3141-1-B	C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
13	M2022-3142-1-A	C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
14	M2022-3142-1-B	C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
15	M2022-3173-1-A	C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
16	M2022-3173-1-B	C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
17	M2022-3174-1-A	C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
18	M2022-3174-1-B	C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
19	M2022-3175-1-A	C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
20	M2022-3175-1-B	C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
21	M2022-3176-1-A	C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
22	M2022-3176-1-B	C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
23	M2022-3242-1-A	C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
24	M2022-3242-1-B	C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
25	QC-2-1-A	C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
26	QC-2-1-B	C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
27	M2022-3243-1-A	C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
28	M2022-3243-1-B	C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
29	M2022-3245-1-A	C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
30	M2022-3245-1-B	C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
31	M2022-3246-1-A	C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
32	M2022-3246-1-B	C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
33	M2022-3278-2-A	C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
34	M2022-3278-2-B	C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
35	M2022-3295-1-A	C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
36	M2022-3295-1-B	C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
37	M2022-3296-1-A	C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
38	M2022-3296-1-B	C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
39	M2022-3298-1-A	C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
40	M2022-3298-1-B	C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
41	M2022-3299-1-A	C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
42	M2022-3299-1-B	C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
43	P2022-2366-1-A	C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
44	P2022-2366-1-B	C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
45	P2022-2382-1-A	C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
46	P2022-2382-1-B	C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
47	QC1-2-A	C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
48	QC1-2-B	C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
49	INT STD BLK 2	C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
50	DFE 111914 0M	C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
51	INT STD BLK 3	C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
52	TFE 111914	C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM
53	INT STD BLK 4	C:\LabSolutions\Data\220728B\CALIBRATION\ALCOHOL.GCM