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): 4/11/24**

Calibration Date: *(if different)* **4/11/24**

Worklist #: 6765

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Feb-25	2101199	0.0808	0.0727-0.0889	0.0831 g/100cc
					0.0856 g/100cc
					g/100cc
Level 2	Mar-26	2110181	0.2030	0.1827-0.2233	0.2155 g/100cc
					0.2155 g/100cc
					g/100cc

Multi-Component mixture:	Exp:	Oct. 24	Lot #	FN06041902	
Curve Fit:		Column 1	0.99964	Column2	0.99959

Ethanol Calibration Reference Material

Calibrator level	Target Value	Acceptable Range	Column 1	Column 2	Precision	Mean
50	0.050	0.045 - 0.055	0.0537	0.0537	0	0.0537
100	0.100	0.090 - 0.110	0.1002	0.1005	0.0003	0.1003
200	0.200	0.180 - 0.220	0.1951	0.1946	0.0005	0.1948
300	0.300	0.270 - 0.330	0.2984	0.2983	1E-04	0.2983
400	0.400	0.360 - 0.440	N/A	N/A	########	#DIV/0!
500	0.500	0.450 - 0.550	0.5024	0.5026	0.0002	0.5025

Aqueous Controls

Control level	Target Value	Acceptable Range	Overall Results
80	0.080	0.076 - 0.084	0.082 g/100cc

REVIEWED

By Jeremy Johnston at 1:02 pm, Apr 12, 2024

JC

Revision: 5

Issue Date: 07/05/2022

Issuing Authority: Quality Manager

Internal Standard Monitoring Worksheet

Worklist #:	6765	Run Date(s):	4/11/24

Internal Standard Solution:	Prep Date: 3/13/2024	Exp Date: 9/13/2024

Sample Name	Column 1 Value	Column 2 Value
0.080	188981	203478
0.080	185299	199494
QC1	191371	206570
QC1	193078	208181
QC1	215580	233299
QC1	213590	231329
QC1		
QC1		
QC2	204905	222019
QC2	206042	223045
QC2	219259	237282
QC2	226922	245728
QC2		
QC2		

	Average	(-)20%	(+)20%
Column 1	204502.7	163602.2	245403.2
Column 2	221042.5	176834.0	265251.0

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

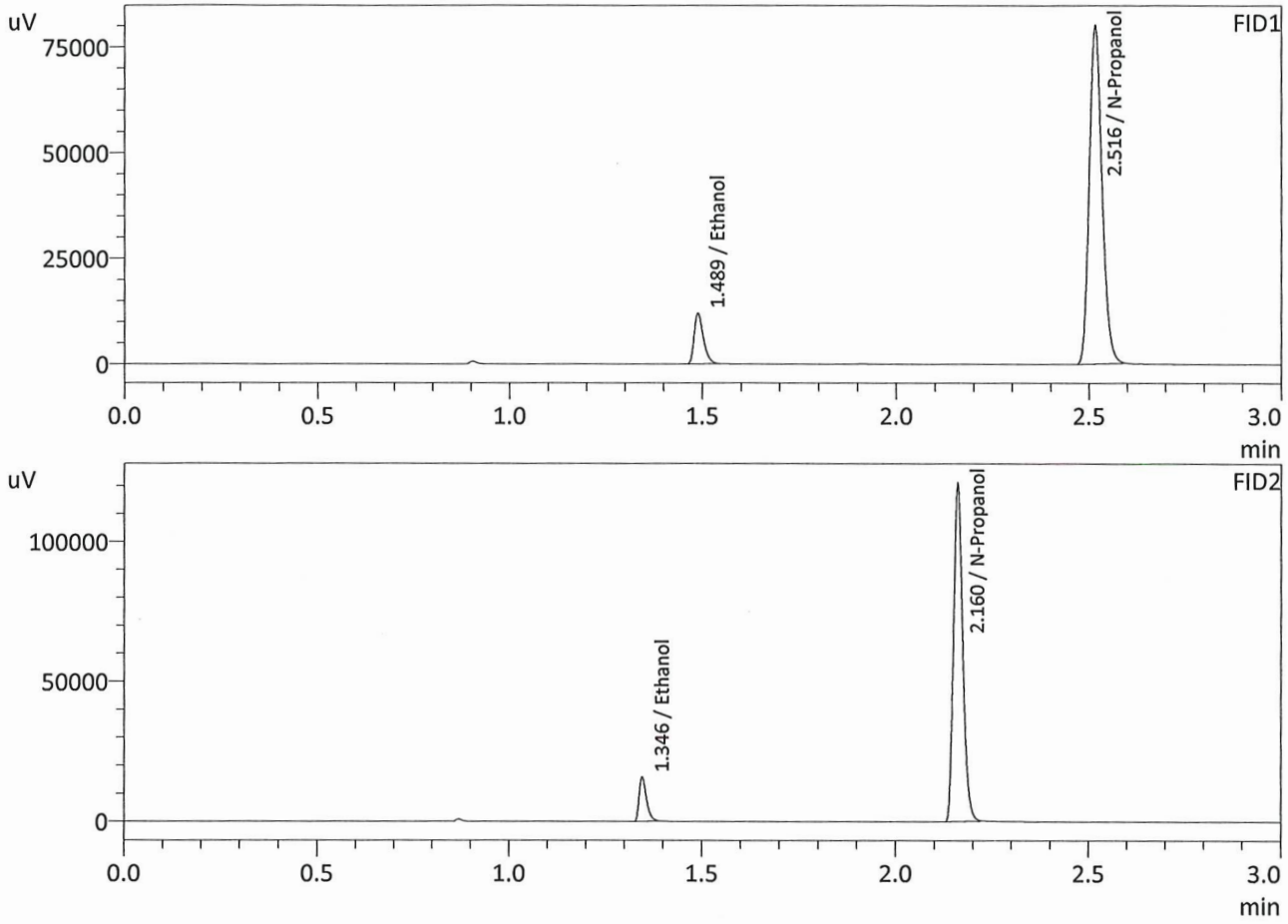
4/12/2024

Worklist: 6765

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
M2024-0987	3	AALIQ	Alcohol Analysis
M2024-0987	4	AALIQ	Alcohol Analysis
M2024-0987	5	AALIQ	Alcohol Analysis
M2024-1300	1	BCK	Alcohol Analysis
M2024-1301	1	BCK	Alcohol Analysis
M2024-1302	1	BCK	Alcohol Analysis
M2024-1328	1	BCK	Alcohol Analysis
M2024-1332	1	BCK	Alcohol Analysis
M2024-1334	1	BCK	Alcohol Analysis
M2024-1335	1	BCK	Alcohol Analysis
M2024-1346	1	BCK	Alcohol Analysis
M2024-1347	1	BCK	Alcohol Analysis
M2024-1348	1	BCK	Alcohol Analysis
M2024-1375	1	BCK	Alcohol Analysis
M2024-1378	1	BCK	Alcohol Analysis
M2024-1379	1	BCK	Alcohol Analysis
M2024-1381	1	BCK	Alcohol Analysis
M2024-1402	1	BCK	Alcohol Analysis
M2024-1406	1	BCK	Alcohol Analysis

JC

Sample Name : 0.050
Laboratory : Meridian
Injection Date : 4/11/2024 9:47:43 AM
Vial # : 1
Method Filename : Default Project - ALCOHOL_240411JG.gcm
Instrument #GC/HS : C12255750548 / C12595800409



FID1

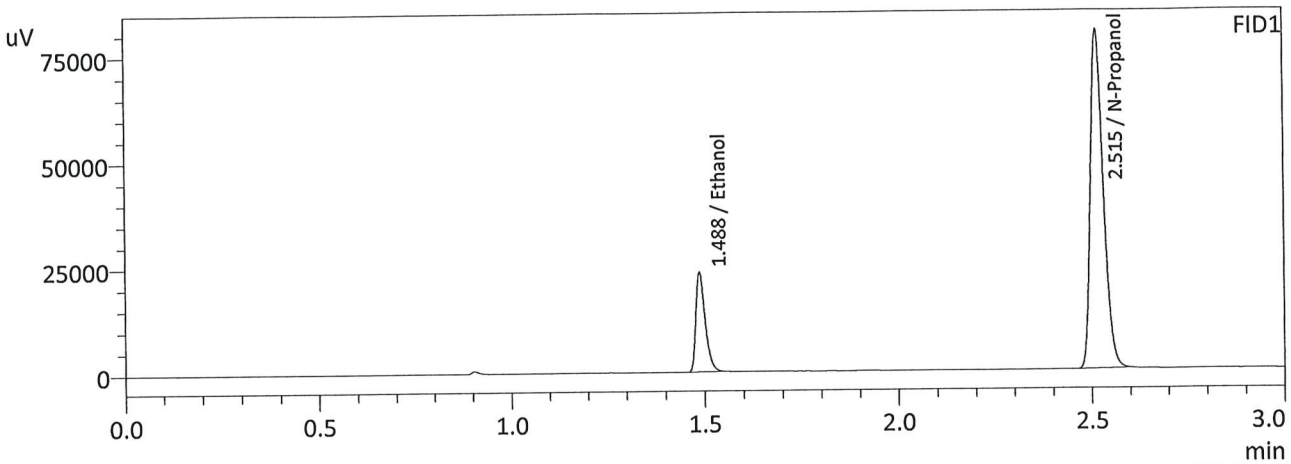
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0537	19929	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	186839	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

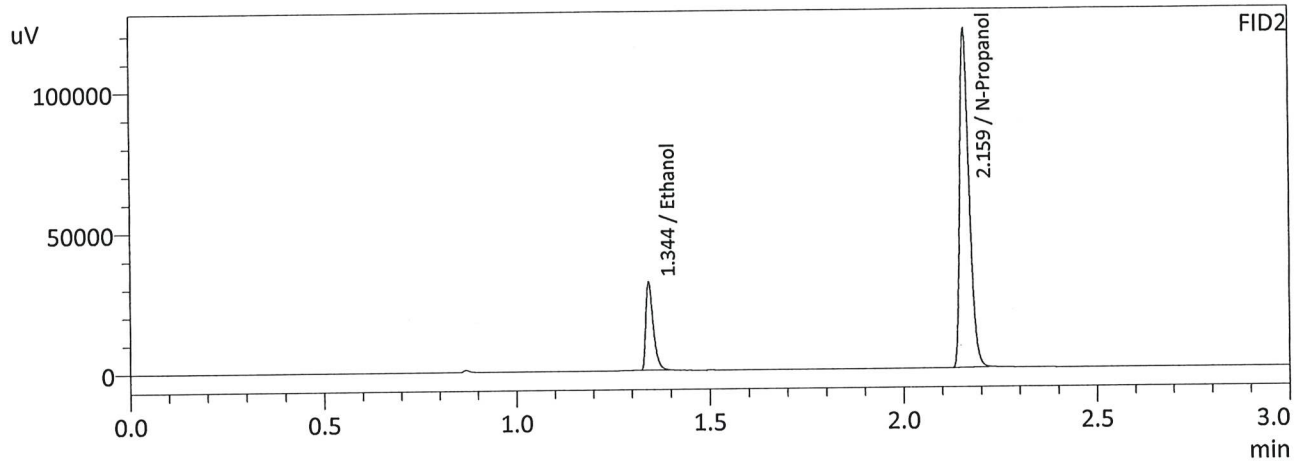
FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0537	21247	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	200876	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JC

Sample Name : 0.100
Laboratory : Meridian
Injection Date : 4/11/2024 9:55:04 AM
Vial # : 2
Method Filename : Default Project - ALCOHOL_240411JG.gcm
Instrument #GC/HS : C12255750548 / C12595800409





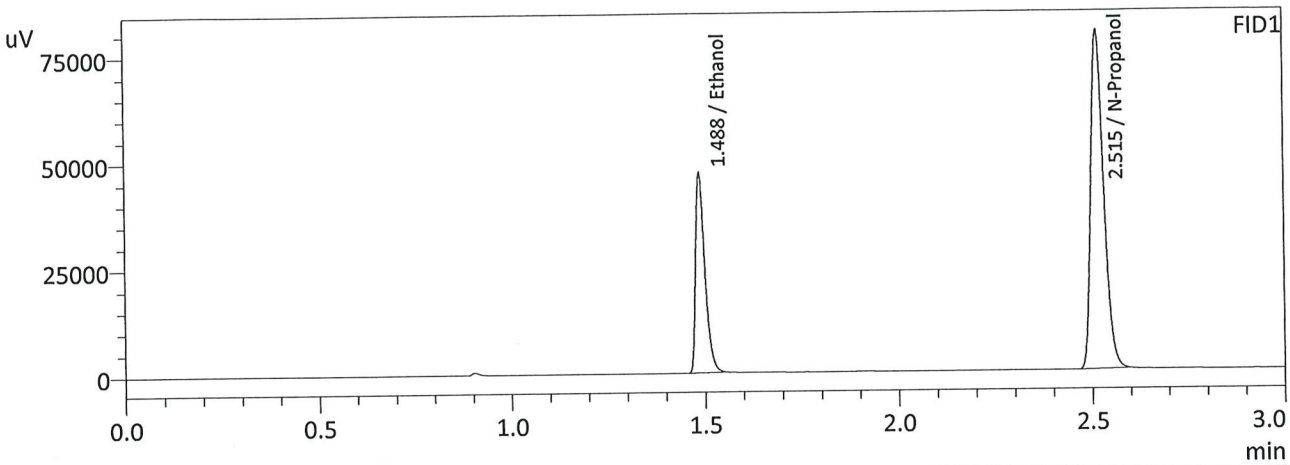
FID1

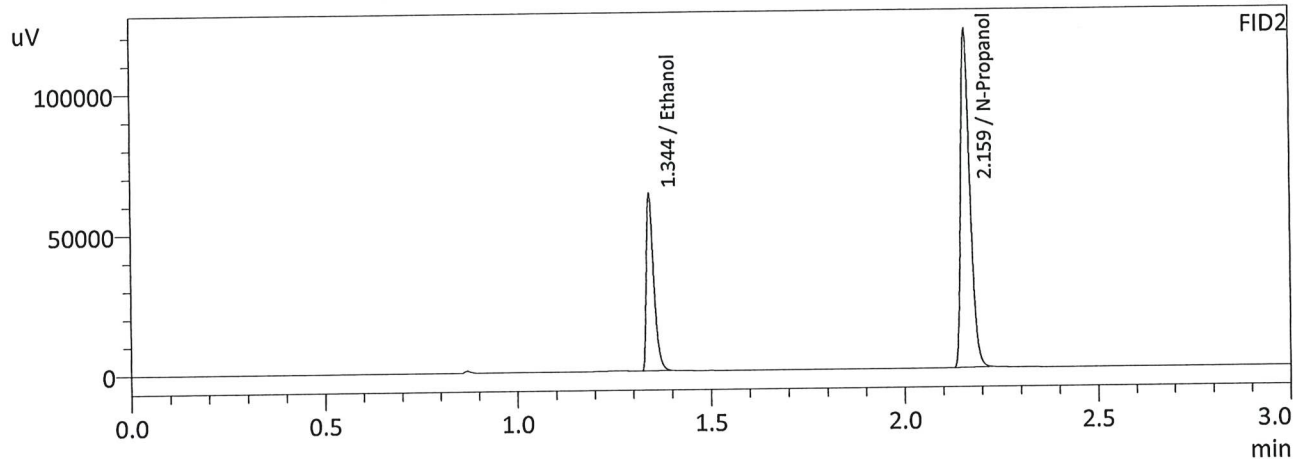
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1002	38881	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	186415	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1005	41929	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	200227	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

Sample Name : 0.200
Laboratory : Meridian
Injection Date : 4/11/2024 10:02:28 AM
Vial # : 3
Method Filename : Default Project - ALCOHOL_240411JG.gcm
Instrument #GC/HS : C12255750548 / C12595800409





FID1

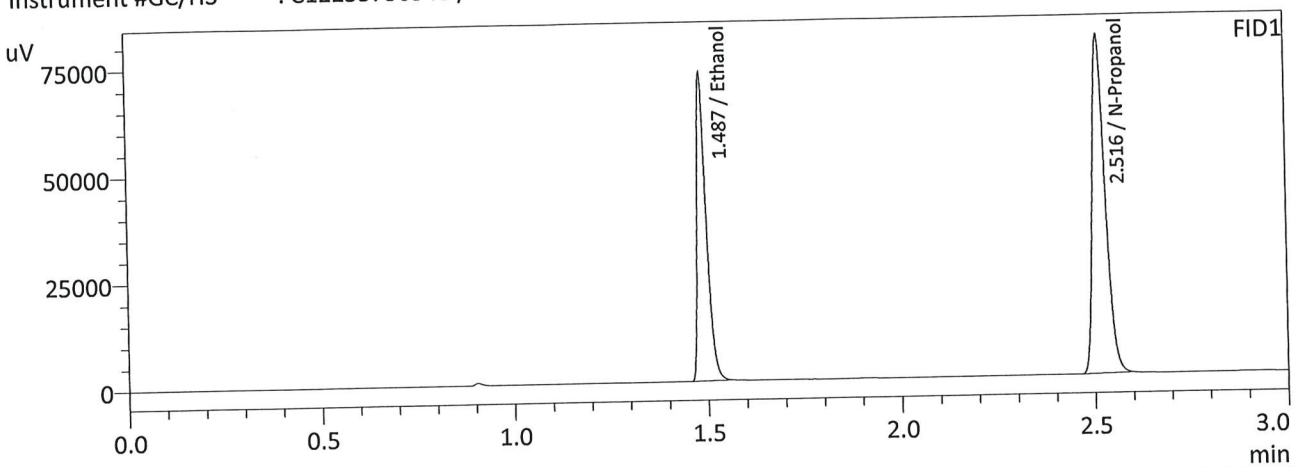
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1951	77553	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	186072	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

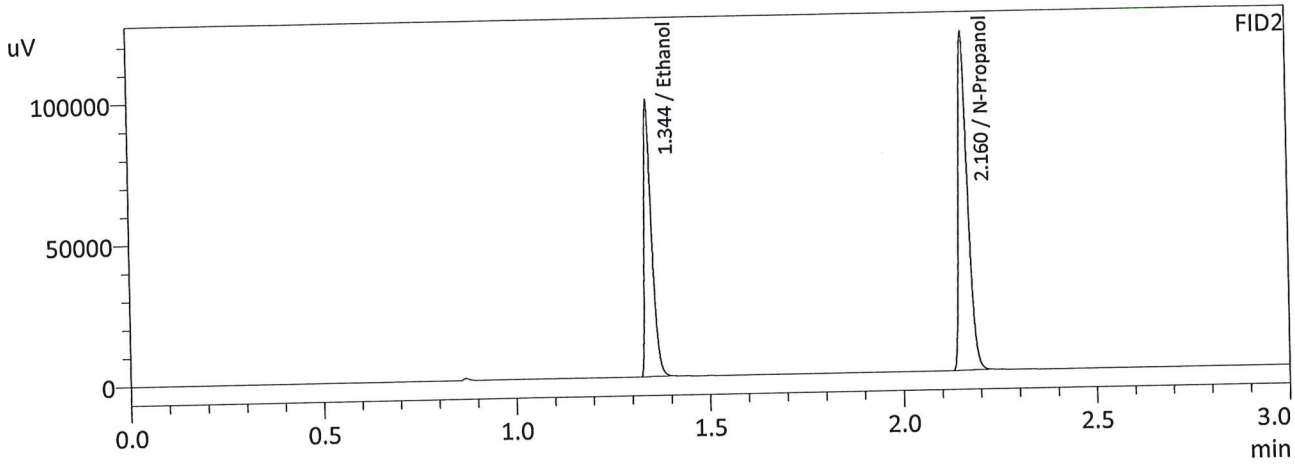
FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1946	83552	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	199890	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JL

Sample Name : 0.300
Laboratory : Meridian
Injection Date : 4/11/2024 10:11:13 AM
Vial # : 4
Method Filename : Default Project - ALCOHOL_240411JG.gcm
Instrument #GC/HS : C12255750548 / C12595800409





FID1

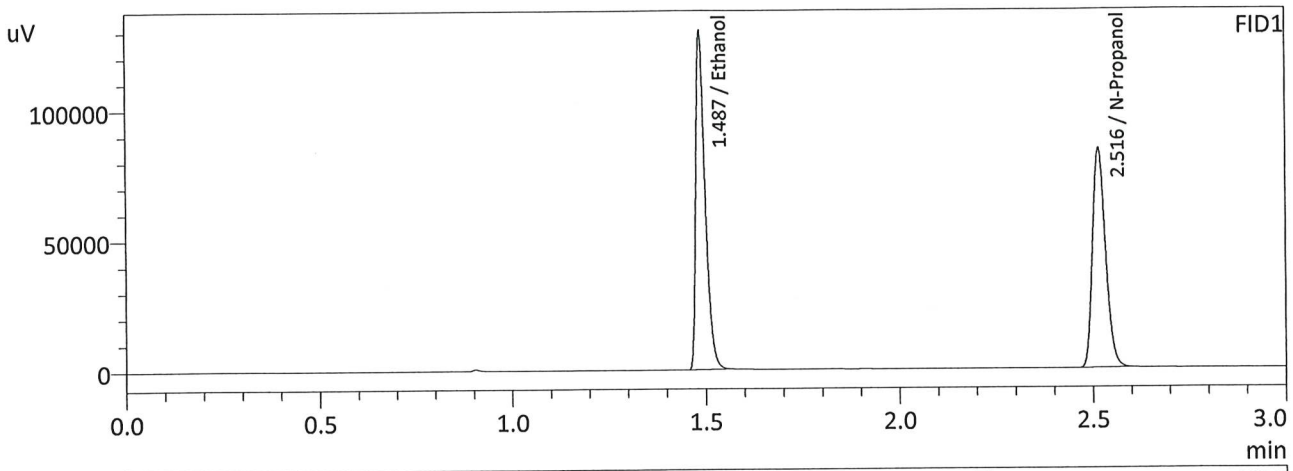
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2984	119180	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	185212	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

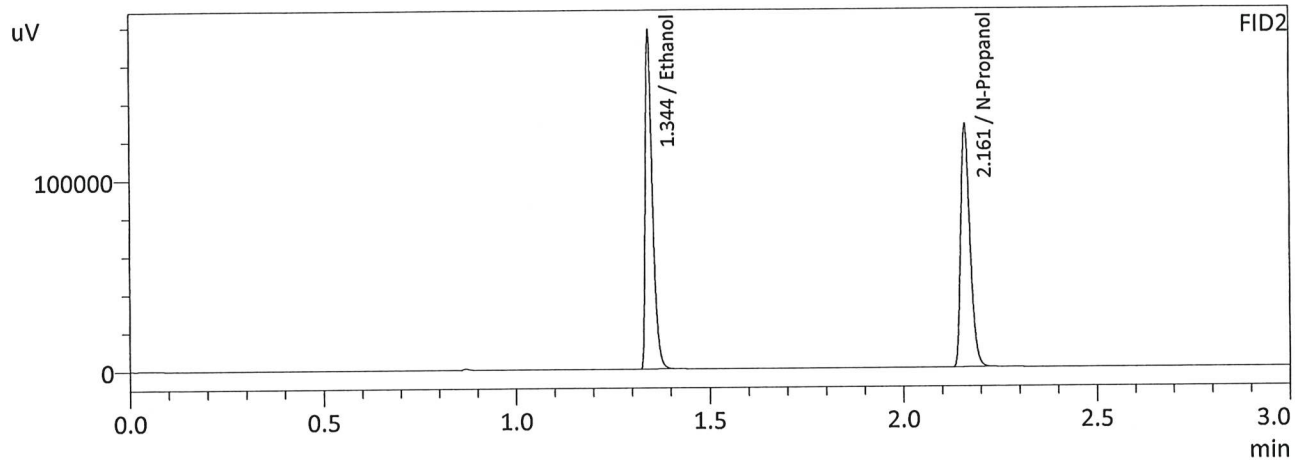
FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2983	129188	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	199378	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

Sample Name : 0.500
Laboratory : Meridian
Injection Date : 4/11/2024 10:19:49 AM
Vial # : 5
Method Filename : Default Project - ALCOHOL_240411JG.gcm
Instrument #GC/HS : C12255750548 / C12595800409





FID1

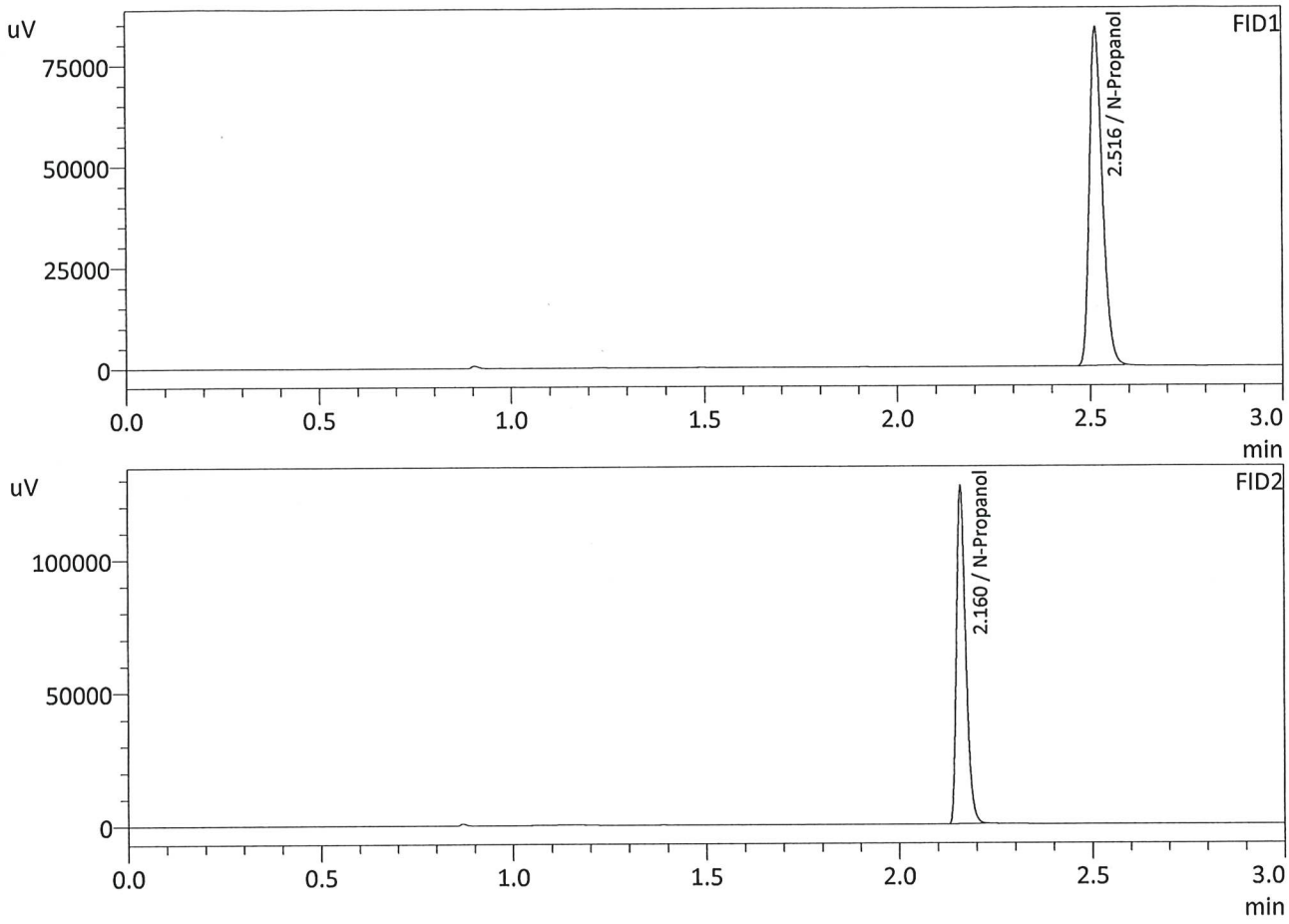
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.5024	213793	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	195962	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.5026	232310	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	211061	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JC

Sample Name : INT STD BLK
Laboratory : Meridian
Injection Date : 4/11/2024 10:27:21 AM
Vial # : 6
Method Filename : Default Project - ALCOHOL_240411JG.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	195151	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

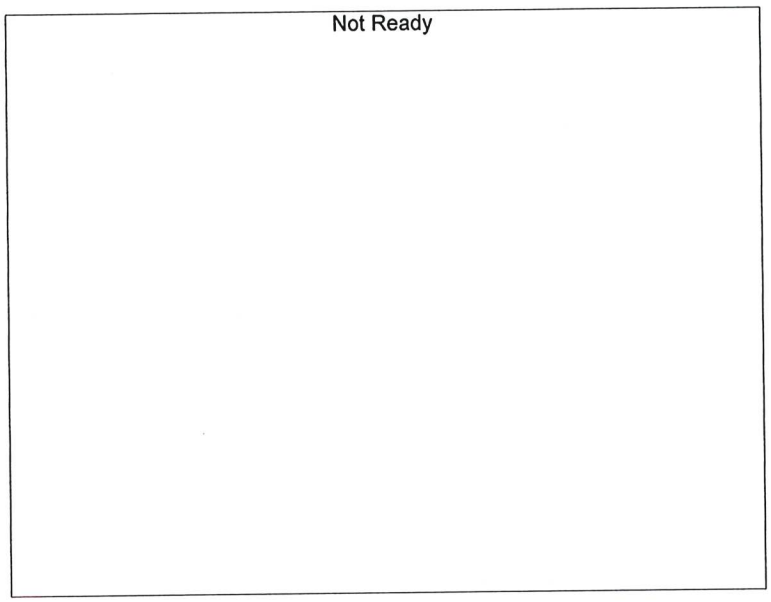
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	210674	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JC

Calibration Table

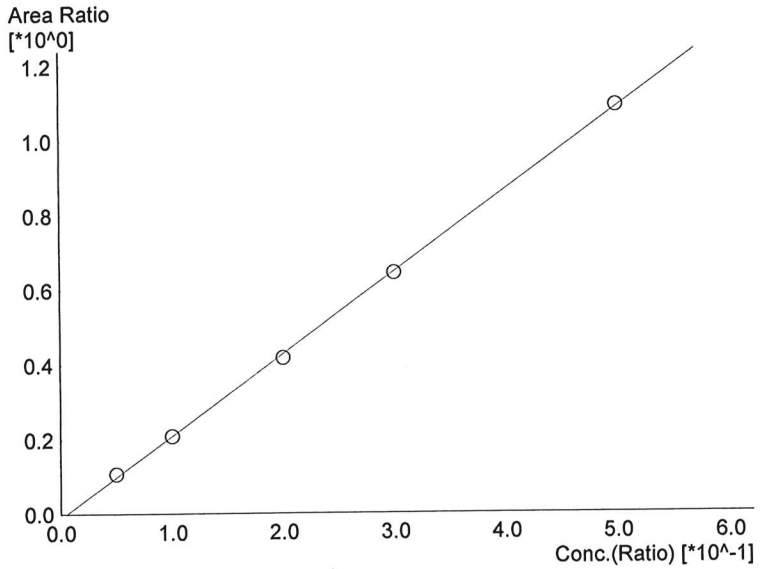
Laboratory : MERIDIAN
Instrument Name : GC-BAC
Instrument Serial # : C12595800409 / C12255750548

<<Data File>>
Method File :Default Project - ALCOHOL_240411JG.gcm
Batch File :Default Project - CALCURVE_240411JG.gcb
Date Acquired :4/11/2024 10:19:49 AM
Date Created :4/11/2024 10:14:18 AM
Date Modified :4/11/2024 10:22:52 AM



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

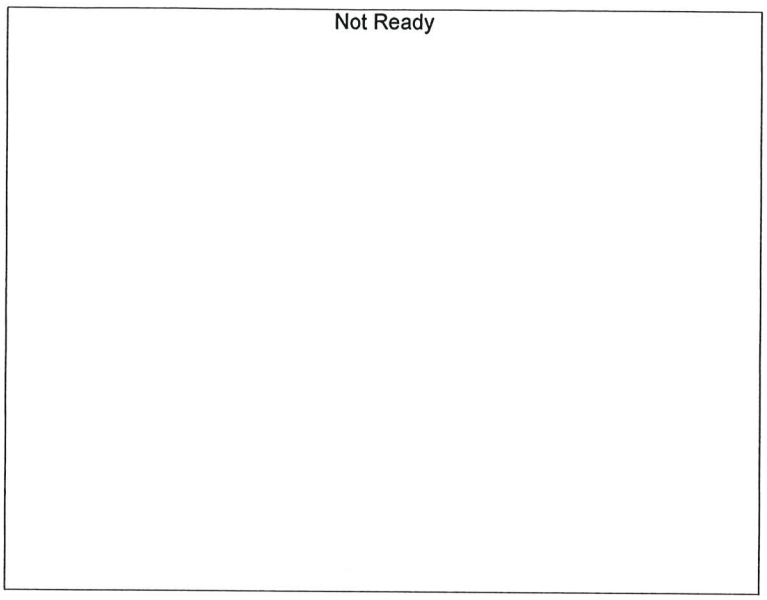
#	Conc.	Area	Std. Conc.



Name : Ethanol
Detector Name: FID1
Function : f(x)=2.19371*x-0.0112535
R^2 value= 0.9996384
FitType: Linear
ZeroThrough: Not Through

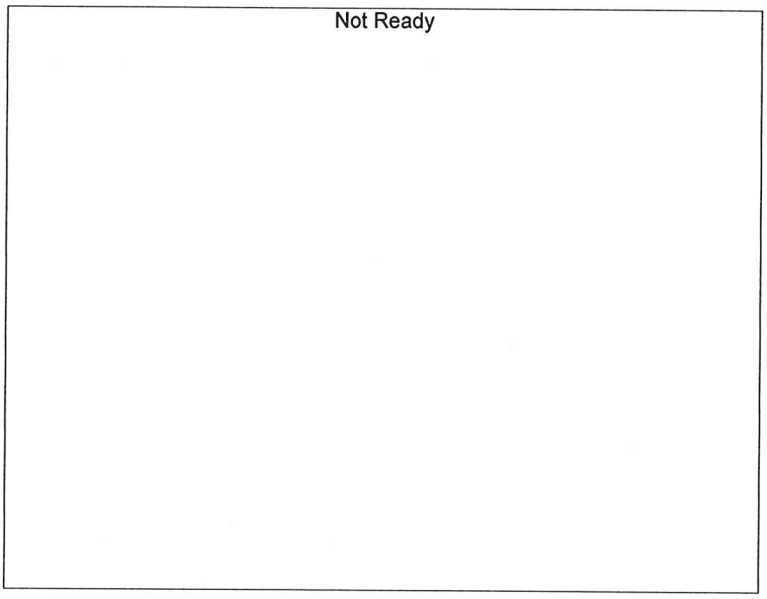
#	Conc.	Area	Std. Conc.
1	0.050	19929	0.0537
2	0.100	38881	0.1002
3	0.200	77553	0.1951
4	0.300	119180	0.2984
5	0.500	213793	0.5024

JG



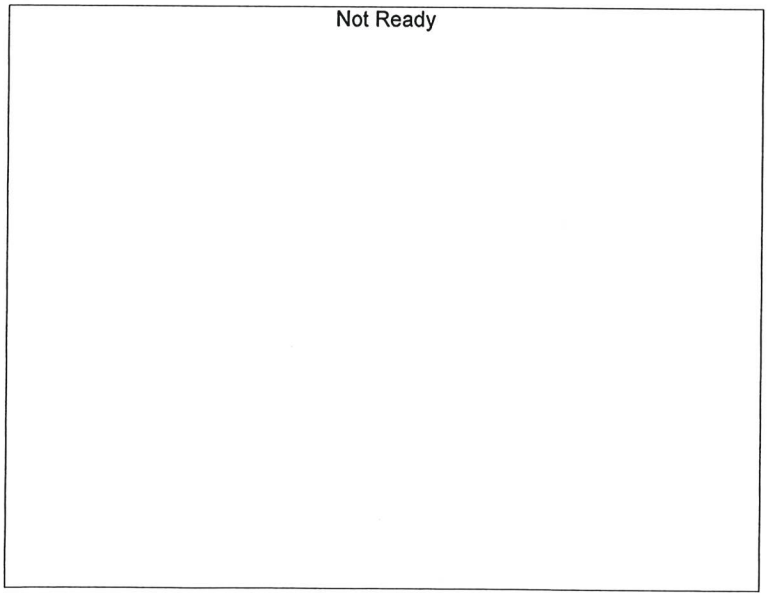
Name : Isopropyl Alcohol
Detector Name: FID1
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.



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

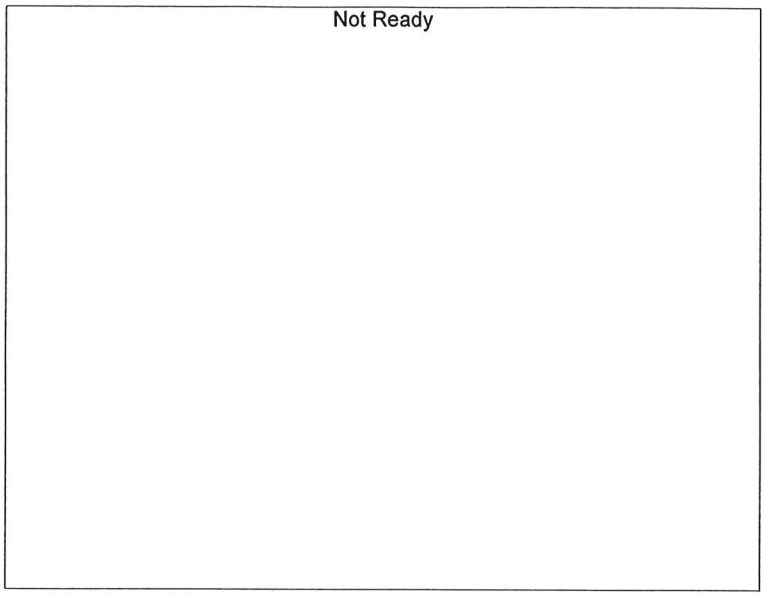
#	Conc.	Area	Std. Conc.



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

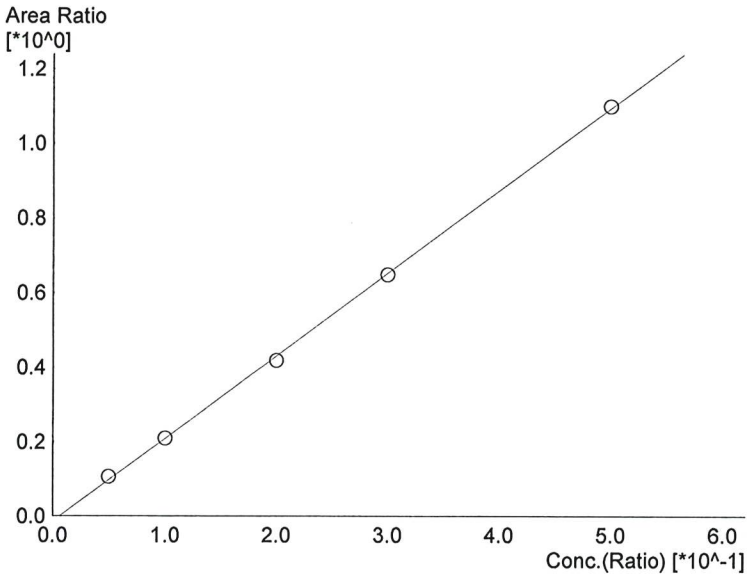
#	Conc.	Area	Std. Conc.

JG



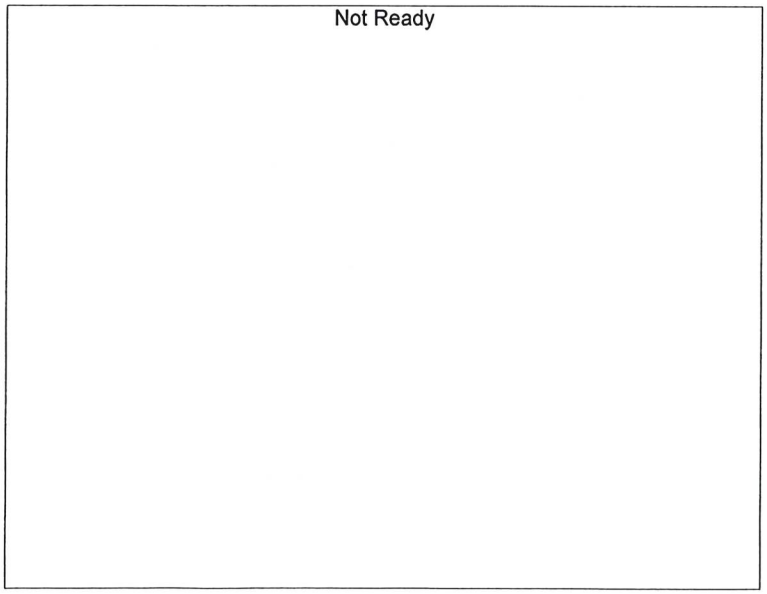
Name : Methanol
Detector Name: FID2
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.



Name : Ethanol
Detector Name: FID2
Function : f(x)=2.21671*x-0.0134820
R^2 value= 0.9995872
FitType: Linear
ZeroThrough: Not Through

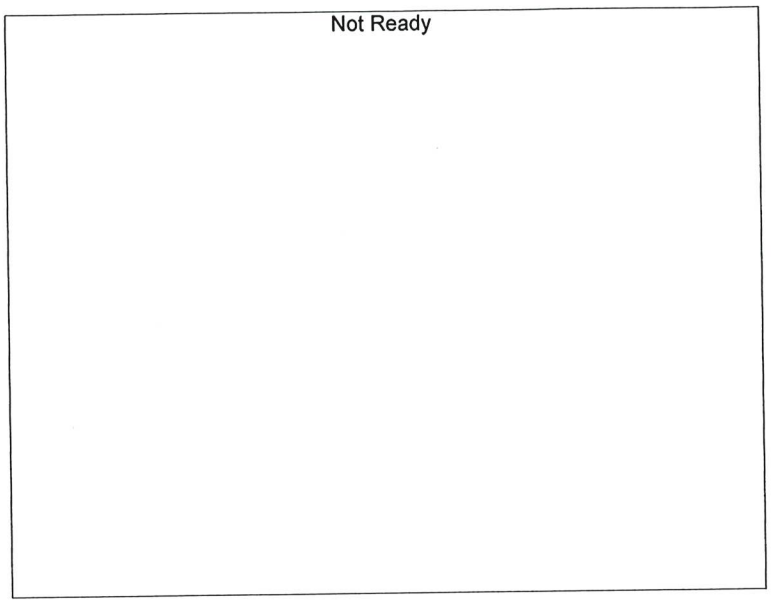
#	Conc.	Area	Std. Conc.
1	0.050	21247	0.0537
2	0.100	41929	0.1005
3	0.200	83552	0.1946
4	0.300	129188	0.2983
5	0.500	232310	0.5026



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

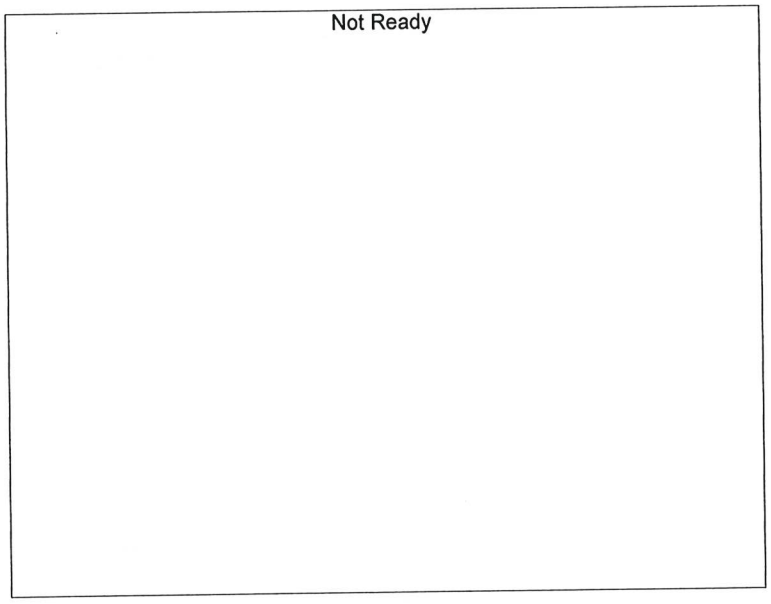
#	Conc.	Area	Std. Conc.

JC



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.

JL

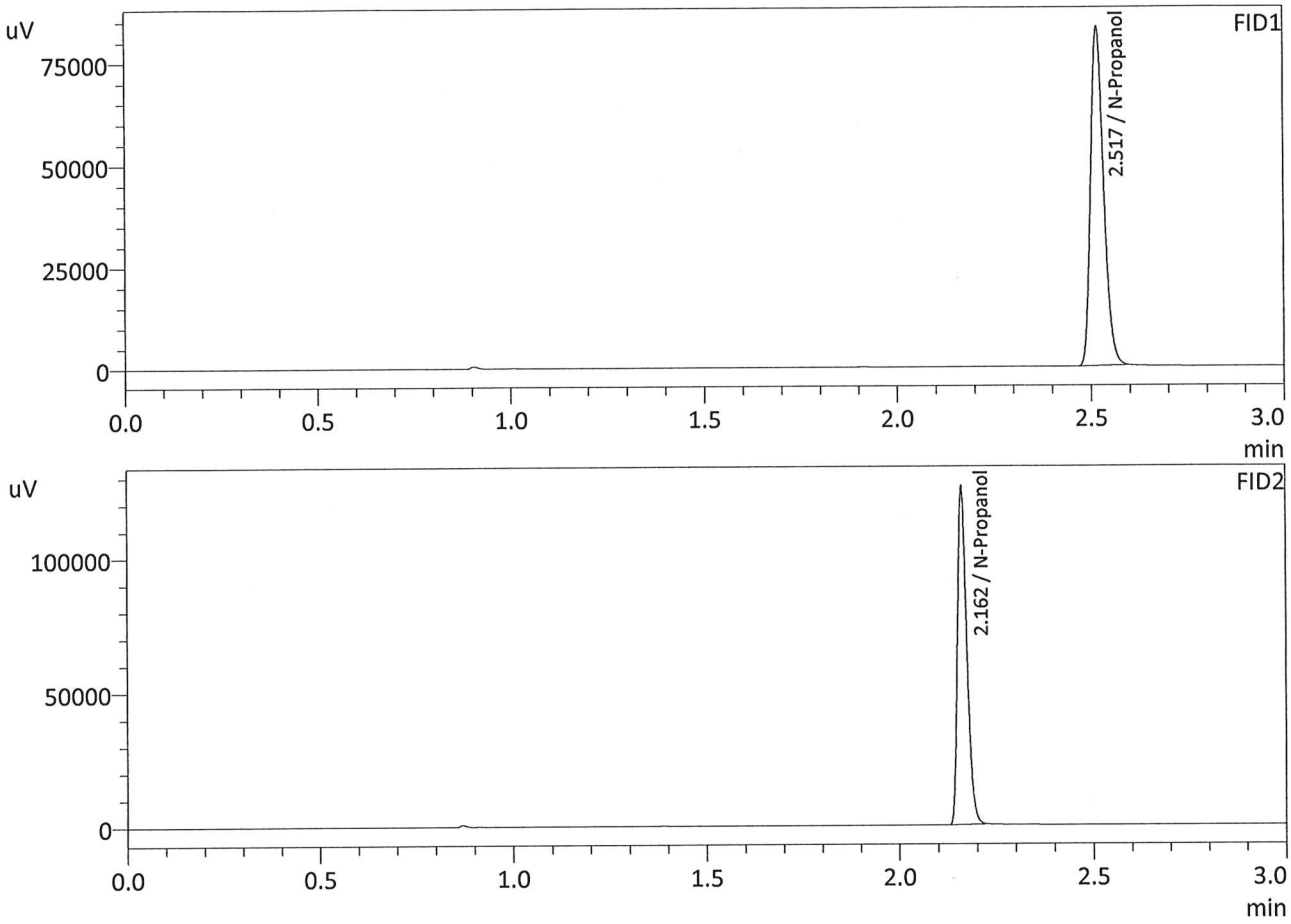
Meridian Blood Alcohol Analysis Batch Table

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 240411JG.gcm
2	0.100	1:Standard	2	ALCOHOL 240411JG.gcm
3	0.200	1:Standard	3	ALCOHOL 240411JG.gcm
4	0.300	1:Standard	4	ALCOHOL 240411JG.gcm
5	0.500	1:Standard	5	ALCOHOL 240411JG.gcm
6	INT STD BLK	0:Unknown	0	ALCOHOL 240411JG.gcm

JG

Sample Name : ISTD BLK 1
Laboratory : Meridian
Injection Date : 4/11/2024 12:18:22 PM
Vial # : 1
Method Filename : Default Project - ALCOHOL_240411JG.gcm
Instrument #GC/HS : C12255750548 / C12595800409



FID1

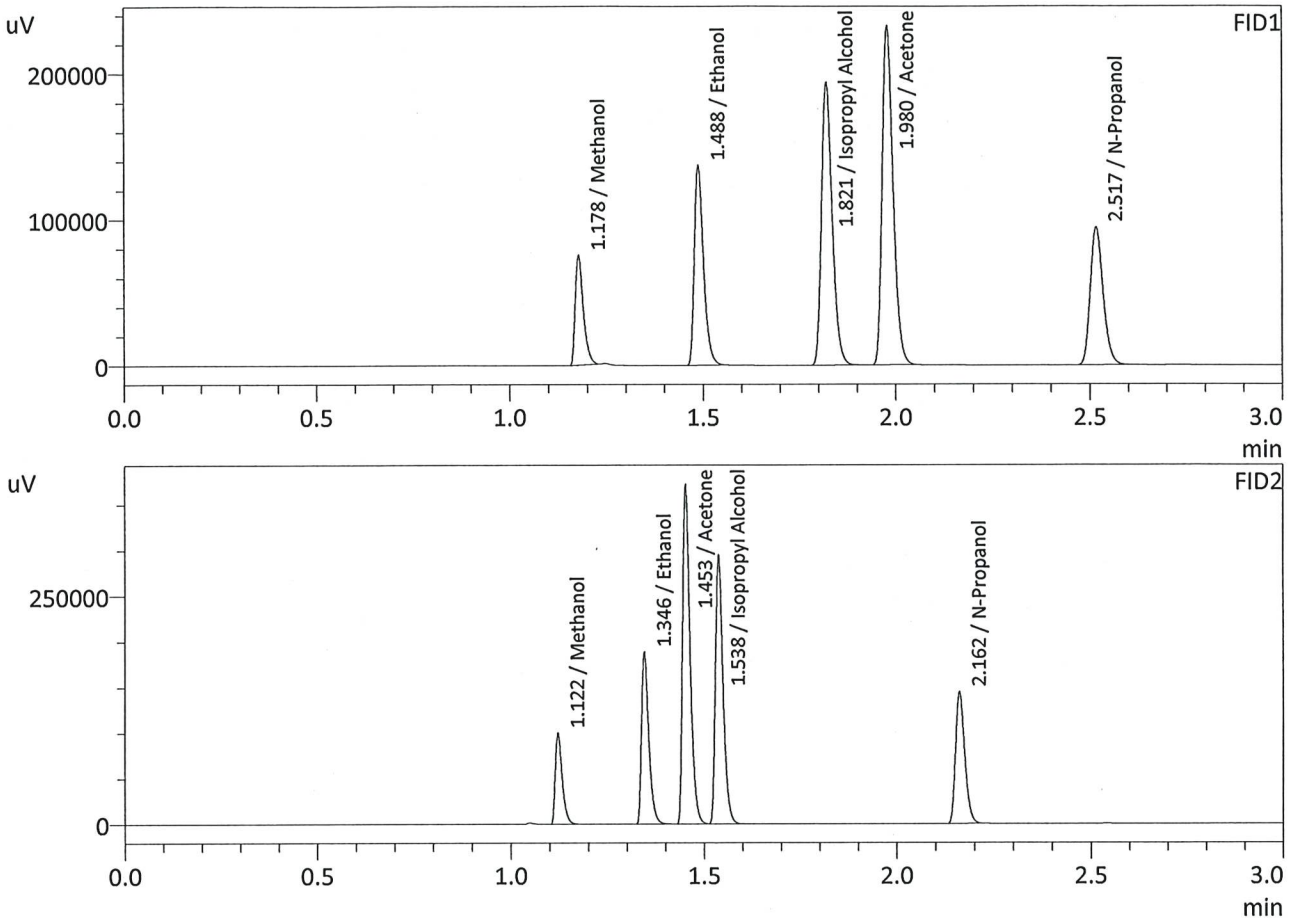
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	193890	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	209188	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

Sample Name : MIXED VOLATILES FN 06041902
Laboratory : Meridian
Injection Date : 4/11/2024 12:25:42 PM
Vial # : 2
Method Filename : Default Project - ALCOHOL_240411JG.gcm
Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	0.0000	109224	g/100cc
Ethanol	0.4717	225168	g/100cc
Isopropyl Alcohol	0.0000	376668	g/100cc
Acetone	0.0000	455363	g/100cc
N-Propanol	0.0000	219993	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	0.0000	123590	g/100cc
Ethanol	0.4735	247587	g/100cc
Acetone	0.0000	499191	g/100cc
Isopropyl Alcohol	0.0000	408991	g/100cc
N-Propanol	0.0000	238937	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JL

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: QC-1-1 **Analysis Date(s): 4/11/2024 12:33:03 PM(-06:00)**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0826	0.0824	0.0002	0.0825	0.0013	0.0831
(g/100cc)	0.0838	0.0838	0.0000	0.0838		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information Instrument information is stored centrally.

Refer To Instrument Method: ALCOHOL_240411JG.gcm

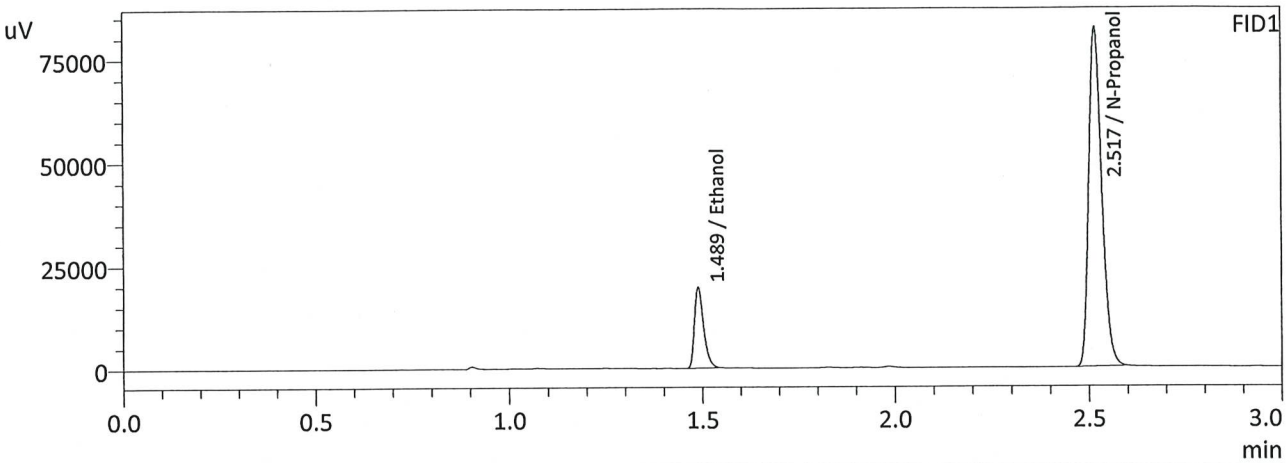
Reporting of Results	Uncertainty of Measurements (UM%):	5.00%
Overall Mean (g/100cc)	Low	High	5 % of Mean
0.083	0.078	0.088	0.005

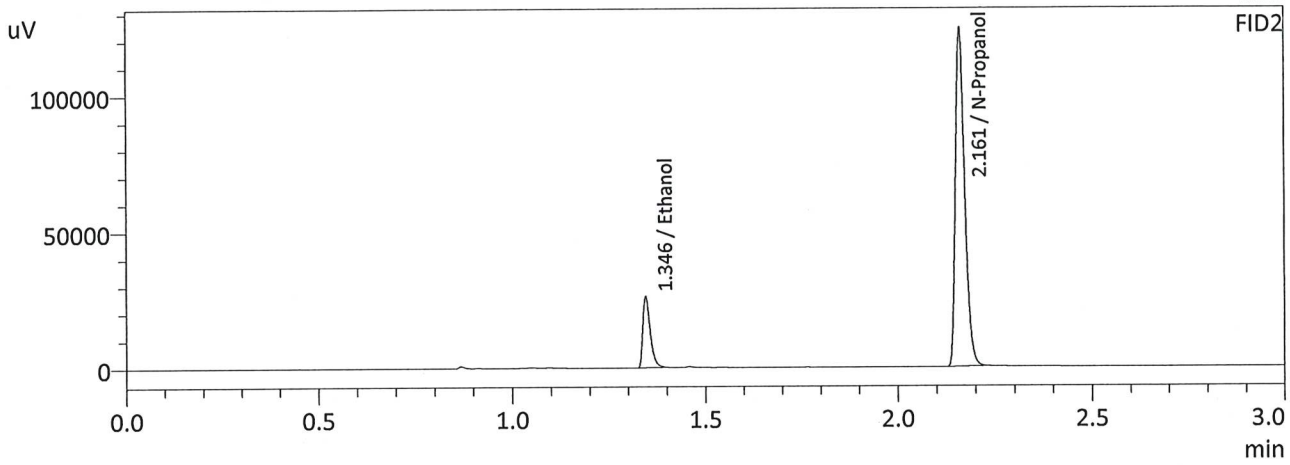
Reported Results
0.083

Calibration and control data are stored centrally.

JG

Sample Name : QC-1-1
Laboratory : Meridian
Injection Date : 4/11/2024 12:33:03 PM
Vial # : 3
Method Filename : Default Project - ALCOHOL_240411JG.gcm
Instrument #GC/HS : C12255750548 / C12595800409





FID1

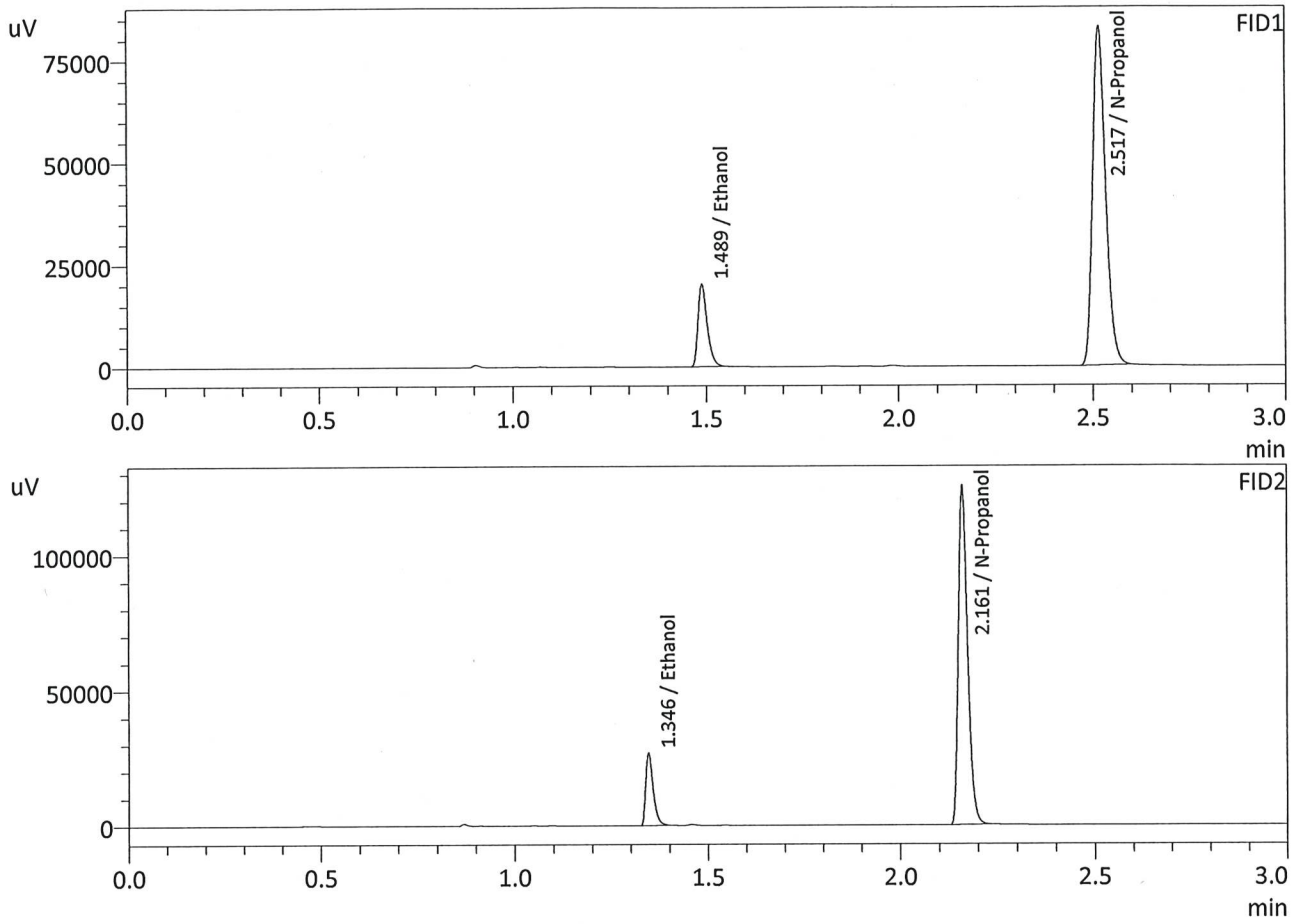
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0826	32532	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	191371	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0824	34958	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	206570	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

Sample Name : QC-1-1-B
Laboratory : Meridian
Injection Date : 4/11/2024 12:41:54 PM
Vial # : 4
Method Filename : Default Project - ALCOHOL_240411JG.gcm
Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0838	33353	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	193078	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0838	35871	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	208181	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JC

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: 0.08 QA **Analysis Date(s): 4/11/2024 12:50:28 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	0.0805	0.0000	0.0805	0.0032	0.0821
(g/100cc)	0.0838	0.0837	0.0001	0.0837		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information — Instrument information is stored centrally.

Refer To Instrument Method: ALCOHOL_240411JG.gcm

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

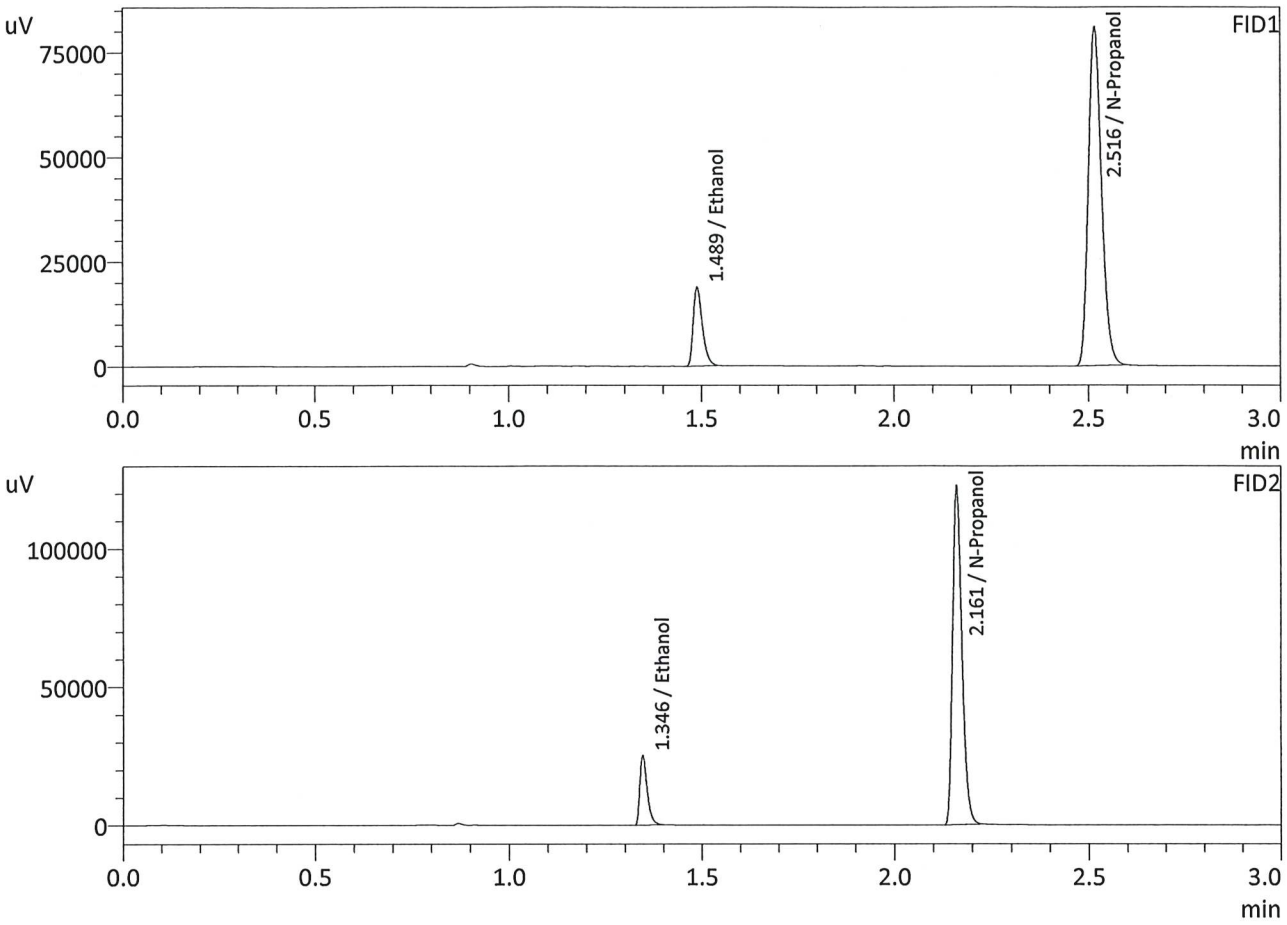
Overall Mean (g/100cc)	Low	High	5 % of Mean
0.082	0.077	0.087	0.005

Reported Results
0.082

Calibration and control data are stored centrally.

JL

Sample Name : 0.08 QA
Laboratory : Meridian
Injection Date : 4/11/2024 12:50:28 PM
Vial # : 5
Method Filename : Default Project - ALCOHOL_240411JG.gcm
Instrument #GC/HS : C12255750548 / C12595800409



FID1

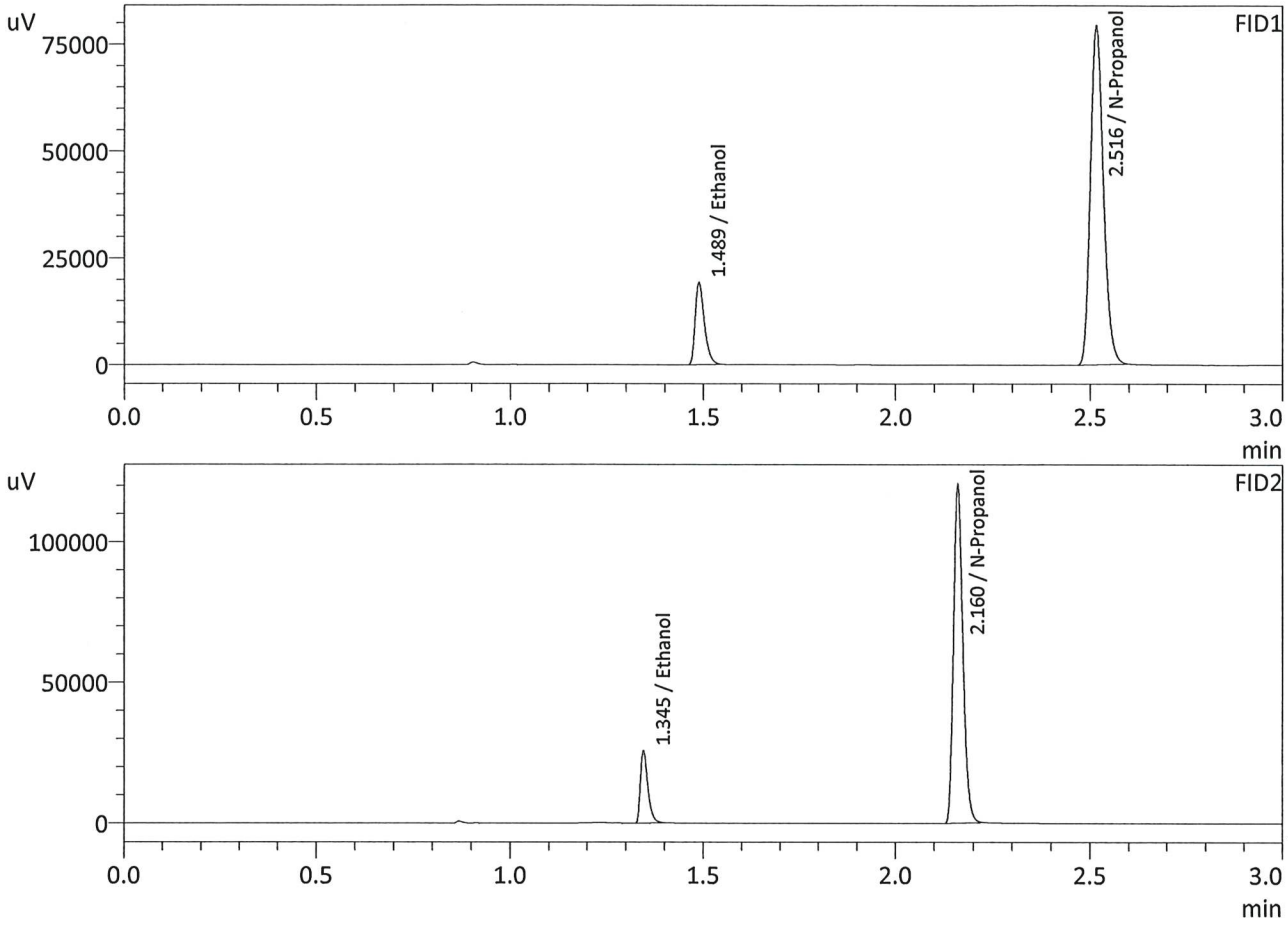
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0805	31262	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	188981	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0805	33583	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	203478	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

J6

Sample Name : 0.08 QA-B
Laboratory : Meridian
Injection Date : 4/11/2024 12:57:53 PM
Vial # : 6
Method Filename : Default Project - ALCOHOL_240411JG.gcm
Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0838	31981	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	185299	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0837	34327	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	199494	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: QC-2-1 **Analysis Date(s): 4/11/2024 3:32:32 PM(-06:00)**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.2153	0.2149	0.0004	0.2151	0.0008	0.2155
(g/100cc)	0.2160	0.2158	0.0002	0.2159		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information — Instrument information is stored centrally.

Refer To Instrument Method: ALCOHOL_240411JG.gcm

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

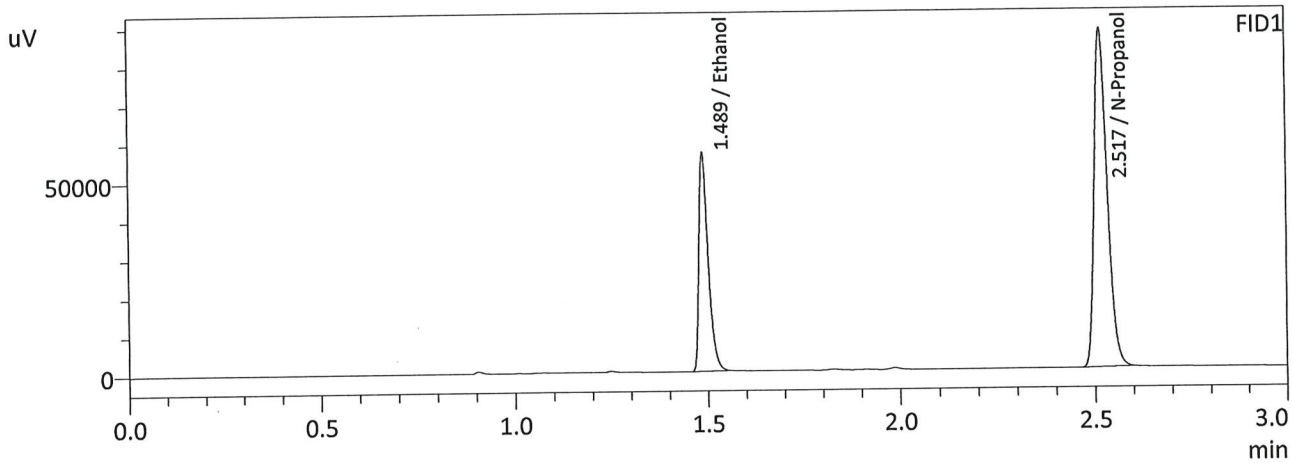
Overall Mean (g/100cc)	Low	High	5 % of Mean
0.215	0.204	0.226	0.011

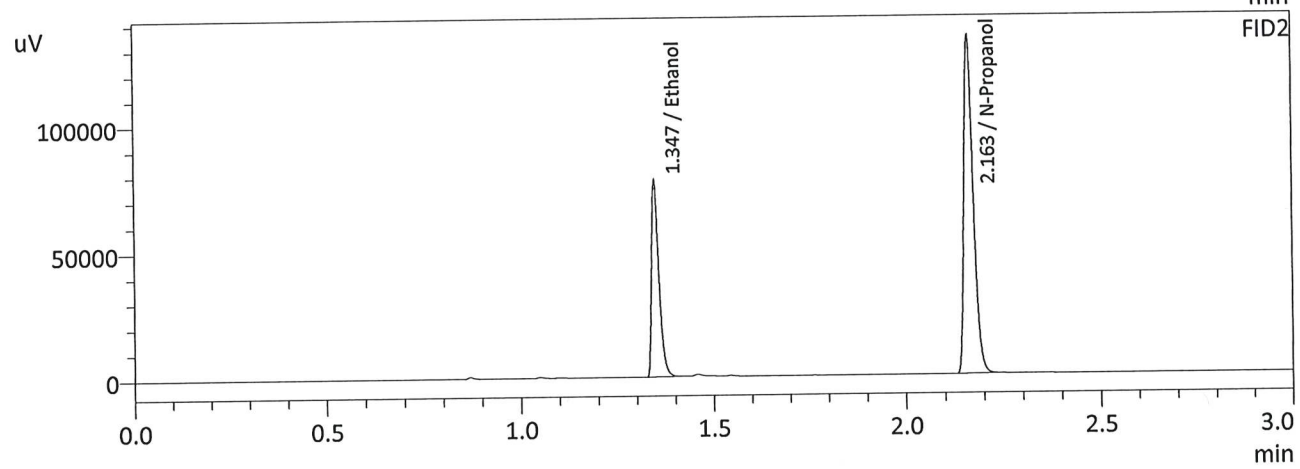
	Reported Results	
	0.215	

Calibration and control data are stored centrally.

JG

Sample Name : QC-2-1
Laboratory : Meridian
Injection Date : 4/11/2024 3:32:32 PM
Vial # : 25
Method Filename : Default Project - ALCOHOL_240411JG.gcm
Instrument #GC/HS : C12255750548 / C12595800409





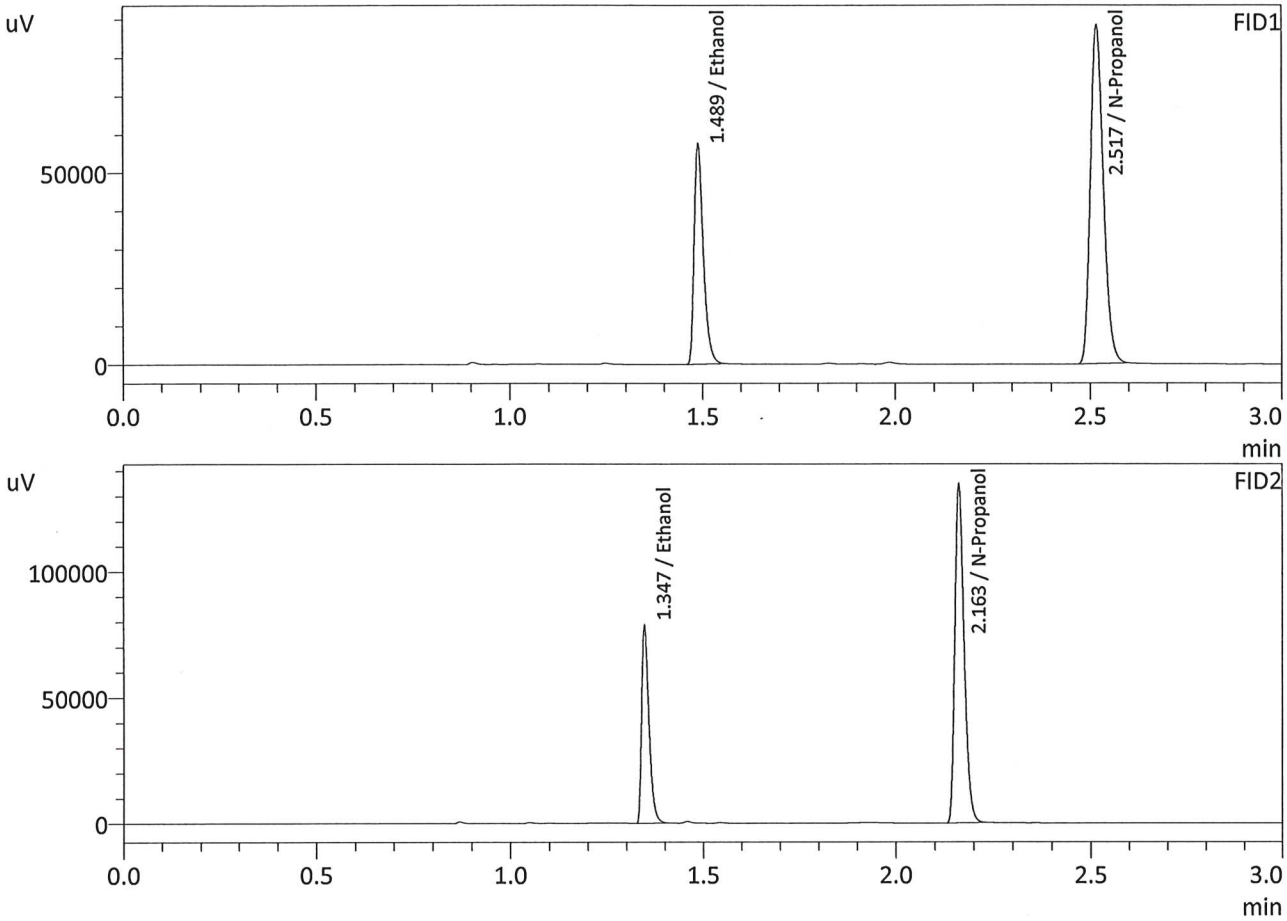
FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2153	94477	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	204905	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2149	102801	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	222019	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

Sample Name : QC-2-1-B
Laboratory : Meridian
Injection Date : 4/11/2024 3:39:58 PM
Vial # : 26
Method Filename : Default Project - ALCOHOL_240411JG.gcm
Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2160	95325	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	206042	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2158	103737	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	223045	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JL

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: QC-1-2 **Analysis Date(s): 4/11/2024 6:30:57 PM(-06:00)**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0851	0.0853	0.0002	0.0852	0.0009	0.0856
(g/100cc)	0.0861	0.0862	0.0001	0.0861		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information — Instrument information is stored centrally.

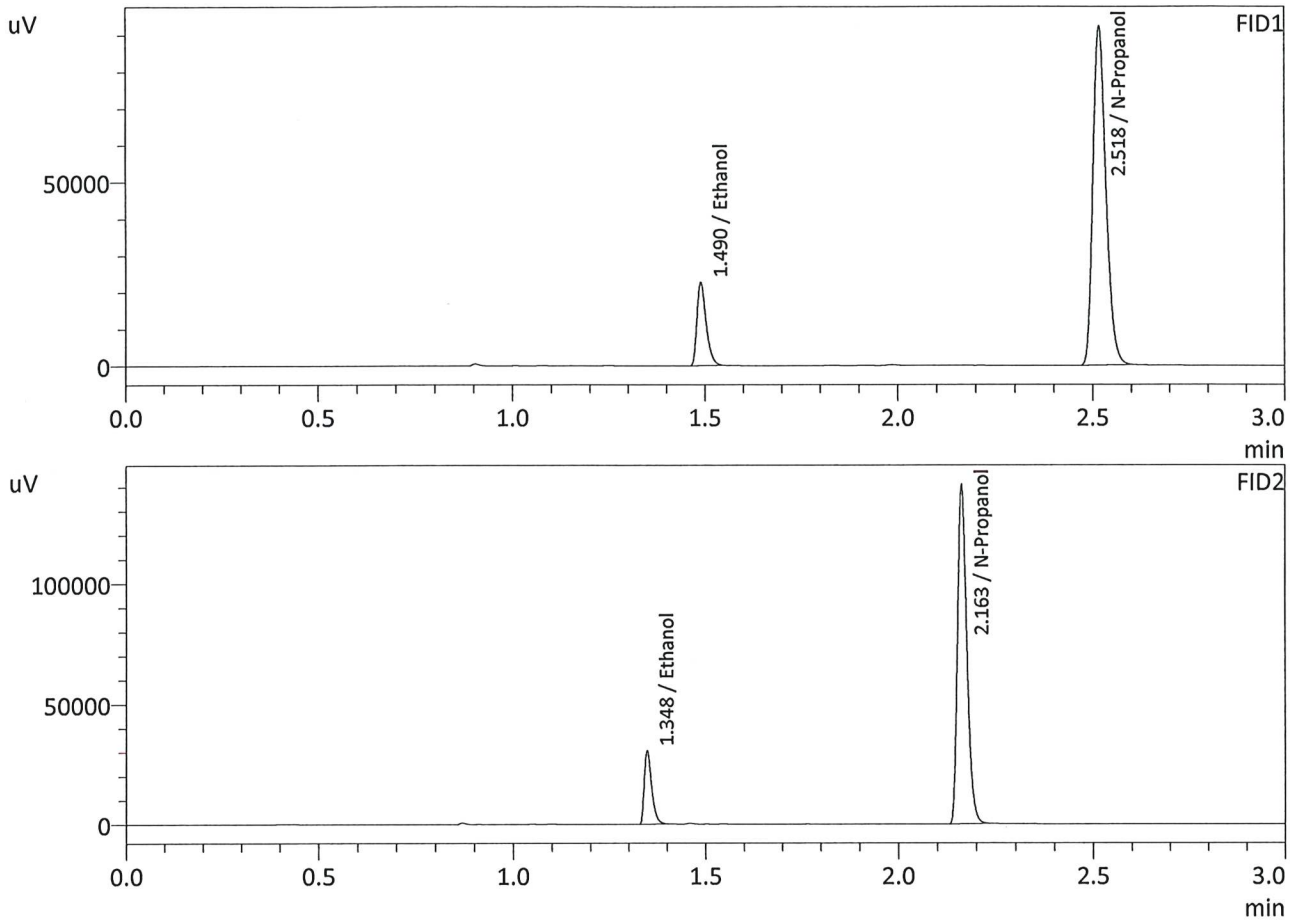
Refer To Instrument Method: ALCOHOL_240411JG.gcm

Reporting of Results		Uncertainty of Measurements (UM%):	5.00%
Overall Mean (g/100cc)	Low	High	5 % of Mean
0.085	0.080	0.090	0.005

Reported Results
0.085

Calibration and control data are stored centrally.

Sample Name : QC-1-2
Laboratory : Meridian
Injection Date : 4/11/2024 6:30:57 PM
Vial # : 47
Method Filename : Default Project - ALCOHOL_240411JG.gcm
Instrument #GC/HS : C12255750548 / C12595800409



FID1

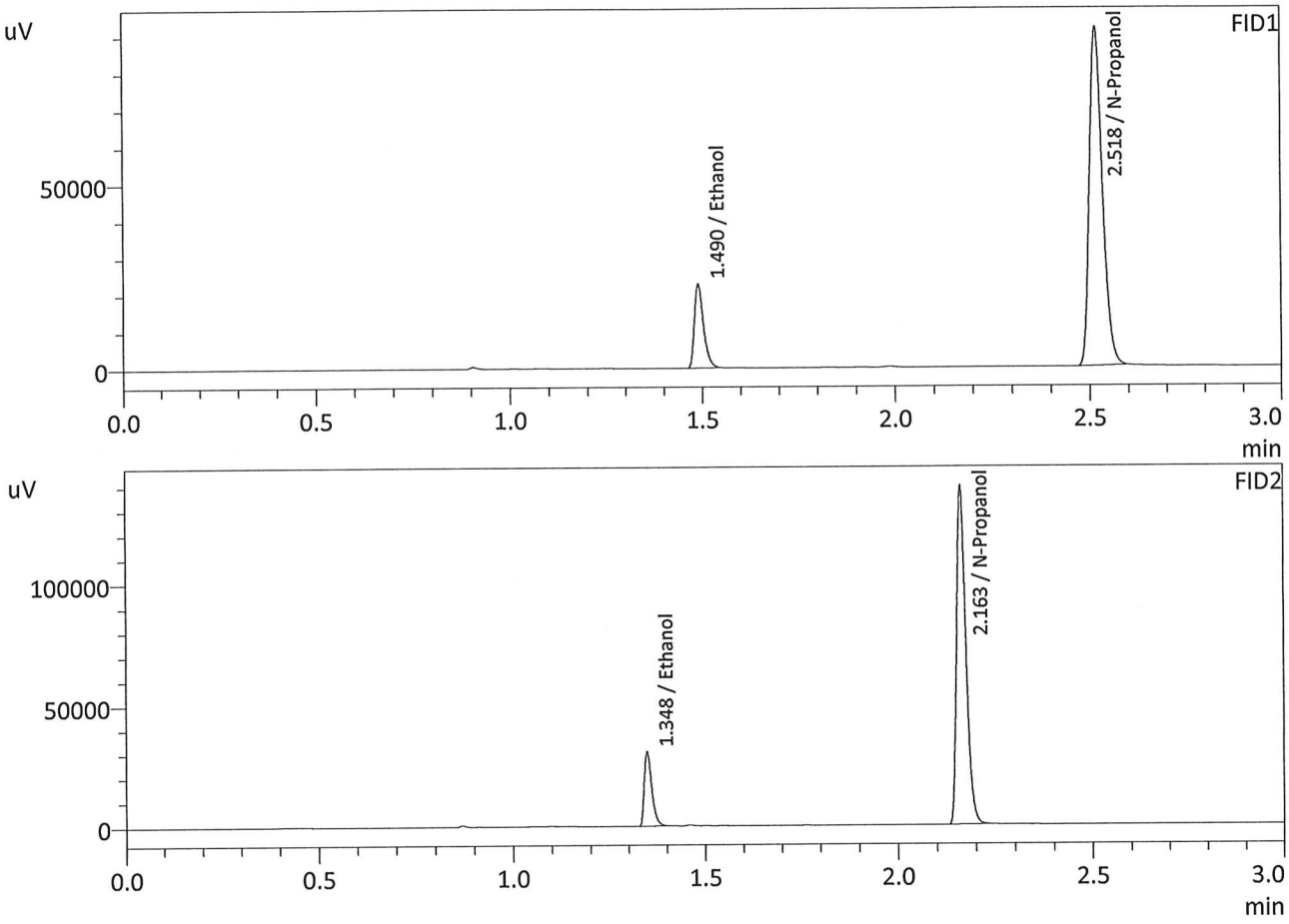
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0851	37820	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	215580	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0853	40998	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	233299	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JL

Sample Name : QC-1-2-B
Laboratory : Meridian
Injection Date : 4/11/2024 6:39:10 PM
Vial # : 48
Method Filename : Default Project - ALCOHOL_240411JG.gcm
Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0861	37952	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	213590	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0862	41115	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	231329	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JC

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: QC-2-2 **Analysis Date(s): 4/11/2024 7:03:51 PM(-06:00)**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.2169	0.2173	0.0004	0.2171	0.0031	0.2155
(g/100cc)	0.2140	0.2141	0.0001	0.2140		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information — Instrument information is stored centrally.

Refer To Instrument Method: ALCOHOL_240411JG.gcm

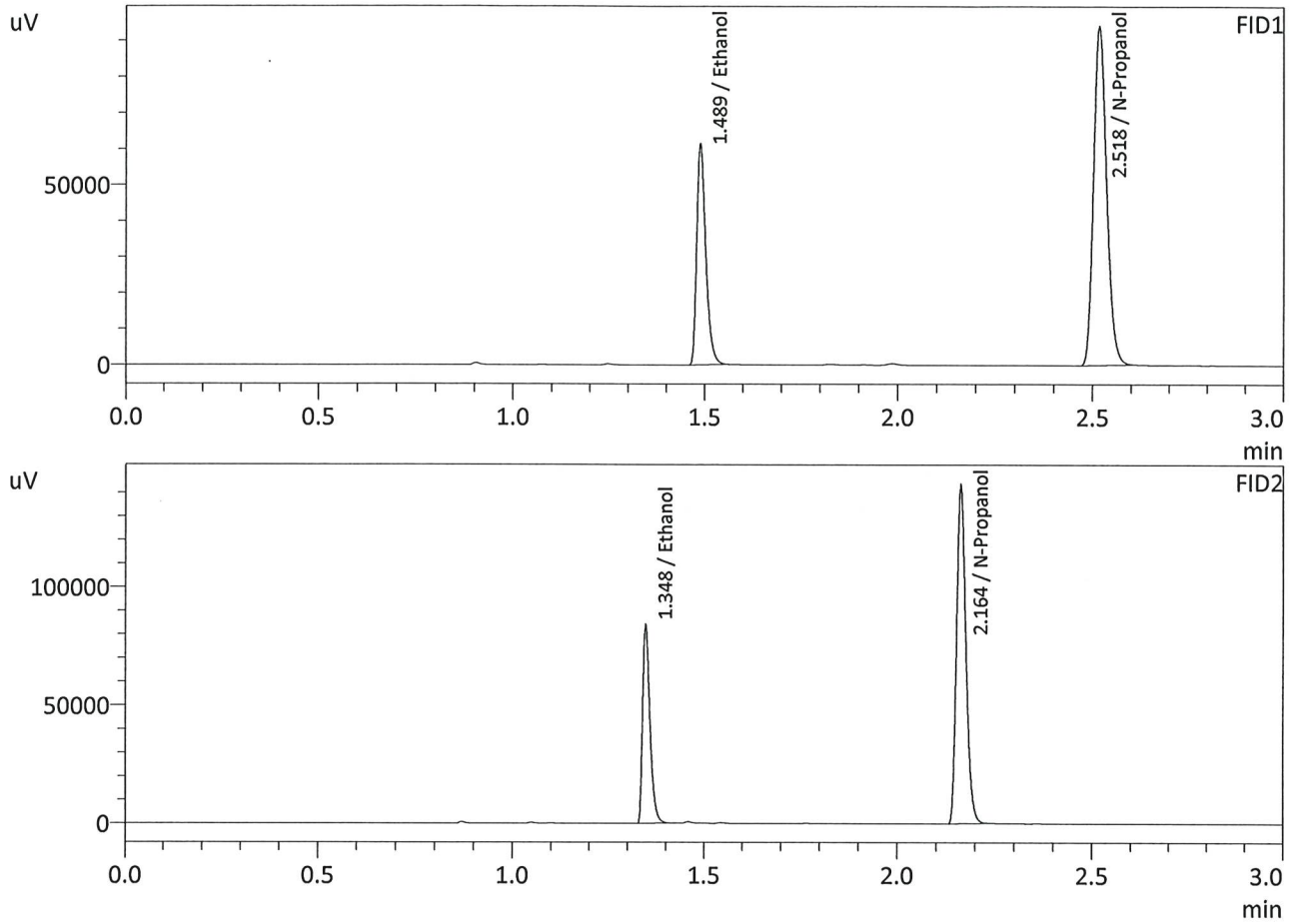
Reporting of Results	Uncertainty of Measurements (UM%):	5.00%

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

Reported Results
0.215

Calibration and control data are stored centrally.

Sample Name : QC-2-2
Laboratory : Meridian
Injection Date : 4/11/2024 7:03:51 PM
Vial # : 51
Method Filename : Default Project - ALCOHOL_240411JG.gcm
Instrument #GC/HS : C12255750548 / C12595800409



FID1

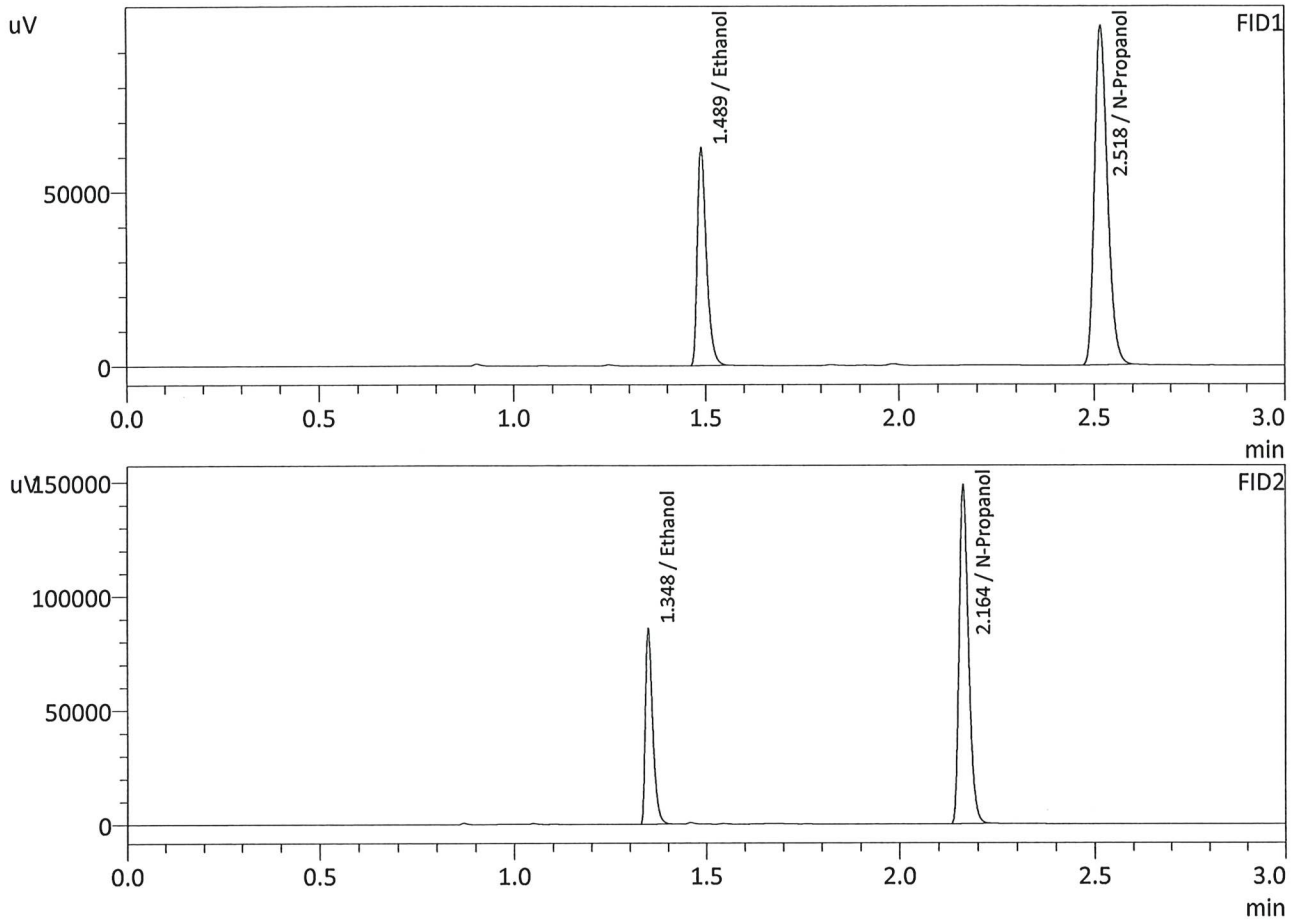
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2169	101871	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	219259	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2173	111102	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	237282	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

Sample Name : QC-2-2-B
Laboratory : Meridian
Injection Date : 4/11/2024 7:11:32 PM
Vial # : 52
Method Filename : Default Project - ALCOHOL_240411JG.gcm
Instrument #GC/HS : C12255750548 / C12595800409



FID1

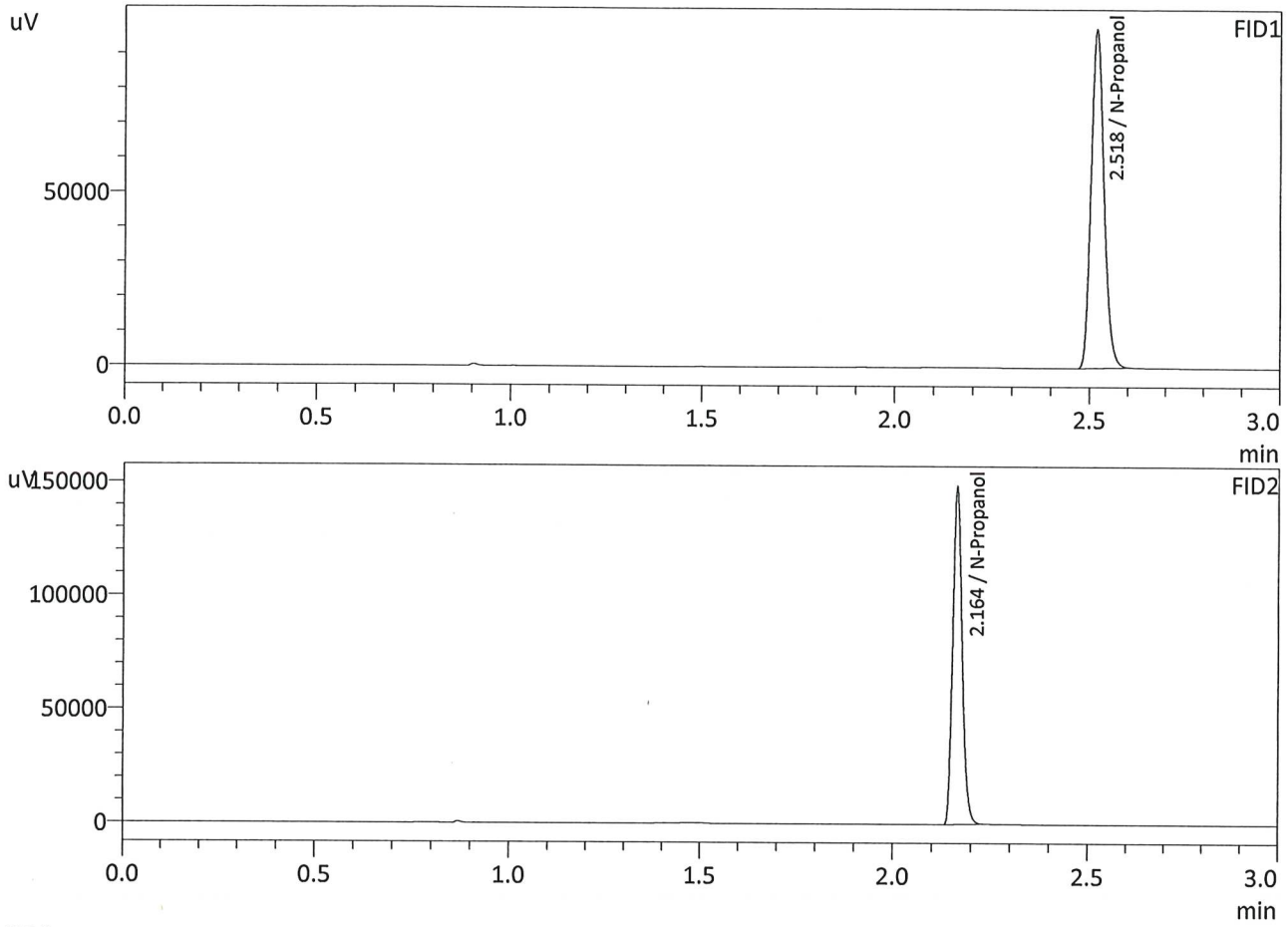
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2140	103988	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	226922	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2141	113311	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	245728	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

Sample Name : ISTD BLK 2
Laboratory : Meridian
Injection Date : 4/11/2024 7:19:24 PM
Vial # : 53
Method Filename : Default Project - ALCOHOL_240411JG.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	227706	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	246596	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

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 240411JG.gcm
2	ED VOLATILES FN 0604	0:Unknown	1	ALCOHOL 240411JG.gcm
3	QC-1-1	0:Unknown	0	ALCOHOL 240411JG.gcm
4	QC-1-1-B	0:Unknown	0	ALCOHOL 240411JG.gcm
5	0.08 QA	0:Unknown	0	ALCOHOL 240411JG.gcm
6	0.08 QA-B	0:Unknown	0	ALCOHOL 240411JG.gcm
7	M2024-0987-3	0:Unknown	0	ALCOHOL 240411JG.gcm
8	M2024-0987-3-B	0:Unknown	0	ALCOHOL 240411JG.gcm
9	M2024-0987-4	0:Unknown	0	ALCOHOL 240411JG.gcm
10	M2024-0987-4-B	0:Unknown	0	ALCOHOL 240411JG.gcm
11	M2024-0987-5	0:Unknown	0	ALCOHOL 240411JG.gcm
12	M2024-0987-5-B	0:Unknown	0	ALCOHOL 240411JG.gcm
13	M2024-1300-1	0:Unknown	0	ALCOHOL 240411JG.gcm
14	M2024-1300-1-B	0:Unknown	0	ALCOHOL 240411JG.gcm
15	M2024-1301-1	0:Unknown	0	ALCOHOL 240411JG.gcm
16	M2024-1301-1-B	0:Unknown	0	ALCOHOL 240411JG.gcm
17	M2024-1302-1	0:Unknown	0	ALCOHOL 240411JG.gcm
18	M2024-1302-1-B	0:Unknown	0	ALCOHOL 240411JG.gcm
19	M2024-1328-1	0:Unknown	0	ALCOHOL 240411JG.gcm
20	M2024-1328-1-B	0:Unknown	0	ALCOHOL 240411JG.gcm
21	M2024-1332-1	0:Unknown	0	ALCOHOL 240411JG.gcm
22	M2024-1332-1-B	0:Unknown	0	ALCOHOL 240411JG.gcm
23	M2024-1334-1	0:Unknown	0	ALCOHOL 240411JG.gcm
24	M2024-1334-1-B	0:Unknown	0	ALCOHOL 240411JG.gcm
25	QC-2-1	0:Unknown	0	ALCOHOL 240411JG.gcm
26	QC-2-1-B	0:Unknown	0	ALCOHOL 240411JG.gcm
27	M2024-1335-1	0:Unknown	0	ALCOHOL 240411JG.gcm
28	M2024-1335-1-B	0:Unknown	0	ALCOHOL 240411JG.gcm
29	M2024-1346-1	0:Unknown	0	ALCOHOL 240411JG.gcm
30	M2024-1346-1-B	0:Unknown	0	ALCOHOL 240411JG.gcm
31	M2024-1347-1	0:Unknown	0	ALCOHOL 240411JG.gcm
32	M2024-1347-1-B	0:Unknown	0	ALCOHOL 240411JG.gcm
33	M2024-1348-1	0:Unknown	0	ALCOHOL 240411JG.gcm
34	M2024-1348-1-B	0:Unknown	0	ALCOHOL 240411JG.gcm
35	M2024-1349-1	0:Unknown	0	ALCOHOL 240411JG.gcm
36	M2024-1349-1-B	0:Unknown	0	ALCOHOL 240411JG.gcm
37	M2024-1375-1	0:Unknown	0	ALCOHOL 240411JG.gcm
38	M2024-1375-1-B	0:Unknown	0	ALCOHOL 240411JG.gcm
39	M2024-1378-1	0:Unknown	0	ALCOHOL 240411JG.gcm
40	M2024-1378-1-B	0:Unknown	0	ALCOHOL 240411JG.gcm
41	M2024-1379-1	0:Unknown	0	ALCOHOL 240411JG.gcm
42	M2024-1379-1-B	0:Unknown	0	ALCOHOL 240411JG.gcm
43	M2024-1381-1	0:Unknown	0	ALCOHOL 240411JG.gcm
44	M2024-1381-1-B	0:Unknown	0	ALCOHOL 240411JG.gcm
45	M2024-1402-1	0:Unknown	0	ALCOHOL 240411JG.gcm
46	M2024-1402-1-B	0:Unknown	0	ALCOHOL 240411JG.gcm
47	QC-1-2	0:Unknown	0	ALCOHOL 240411JG.gcm
48	QC-1-2-B	0:Unknown	0	ALCOHOL 240411JG.gcm
49	M2024-1406-1	0:Unknown	0	ALCOHOL 240411JG.gcm
50	M2024-1406-1-B	0:Unknown	0	ALCOHOL 240411JG.gcm
51	QC-2-2	0:Unknown	0	ALCOHOL 240411JG.gcm
52	QC-2-2-B	0:Unknown	0	ALCOHOL 240411JG.gcm
53	ISTD BLK 2	0:Unknown	0	ALCOHOL 240411JG.gcm

Rerun in next Batch

Samples were originally run 4/10/24. Due to aqueous QC sample not being within tolerances, samples were resampled and tested again on 4/11/24.

John Garner 4/12/24

JG