NB

REVIEWED
By Melissa (Nikka) Bradley at 3:22 pm, Jul 17, 2023

Quantitative Analysis for Ethanol & Qualitative Analysis for Other Volatiles

Analytical Method(s): 1.0

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

Volatiles Quality Assurance Controls **Run Date(s): 7/14/23**

Calibration Date: *(if different)* **7/14/23**

Worklist #: 6437

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Feb-25	2101199	0.0808	0.0727-0.0889	0.0761 g/100cc
					0.0799 g/100cc
					g/100cc
Level 2	Jul-23	1907007	0.2170	0.1953-0.2387	0.1979 g/100cc
					0.2045 g/100cc
					g/100cc

Multi-Component mixture:	**Exp:**	**Oct. 2024**	**Lot #**	FN06041902		
Curve Fit:		**Column 1**	0.99992	**Column2**	0.99992	

Ethanol Calibration Reference Material

Calibrator level	Target Value	Acceptable Range	Column 1	Column 2	Precision	Mean
50	0.050	0.045 - 0.055	0.0501	0.0499	0.0002	0.05
100	0.100	0.090 - 0.110	0.1010	0.1012	0.0002	0.1011
200	0.200	0.180 - 0.220	0.2001	0.2001	0	0.2001
300	0.300	0.270 - 0.330	0.2972	0.2972	0	0.2972
400	0.400	0.360 - 0.440			0	#DIV/0!
500	0.500	0.450 - 0.550	0.5013	0.5013	0	0.5013

Aqueous Controls

Control level	Target Value	Acceptable Range	Overall Results
80	0.080	0.076 - 0.084	0.079 g/100cc

JG

Internal Standard Monitoring Worksheet

Worklist #:	**6437**	**Run Date(s):**	**7/14/23**

Internal Standard Solution:	Prep Date: 2/24/2023	Exp Date: 8/24/2023

Sample Name	Column 1 Value	Column 2 Value
0.080	203641	223054
0.080	204313	223839
QC1	203240	222503
QC1	202336	221652
QC1	230007	252115
QC1	231264	253695
QC1		
QC1		
QC2	220449	241328
QC2	227058	248682
QC2	244039	267282
QC2	238146	260921
QC2		
QC2		

	Average	(-)20%	(+)20%
Column 1	220449.3	176359.4	264539.2
Column 2	241507.1	193205.7	289808.5

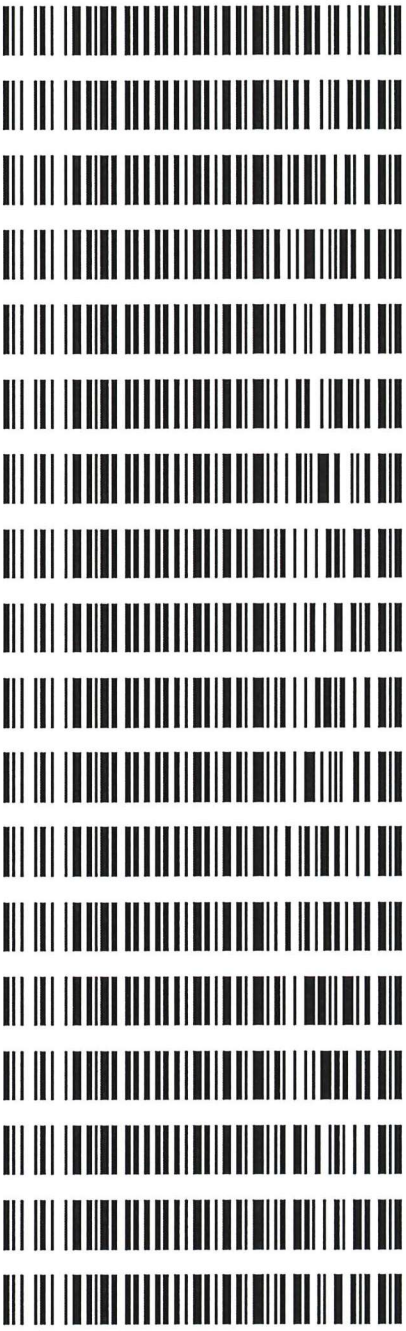
JG

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

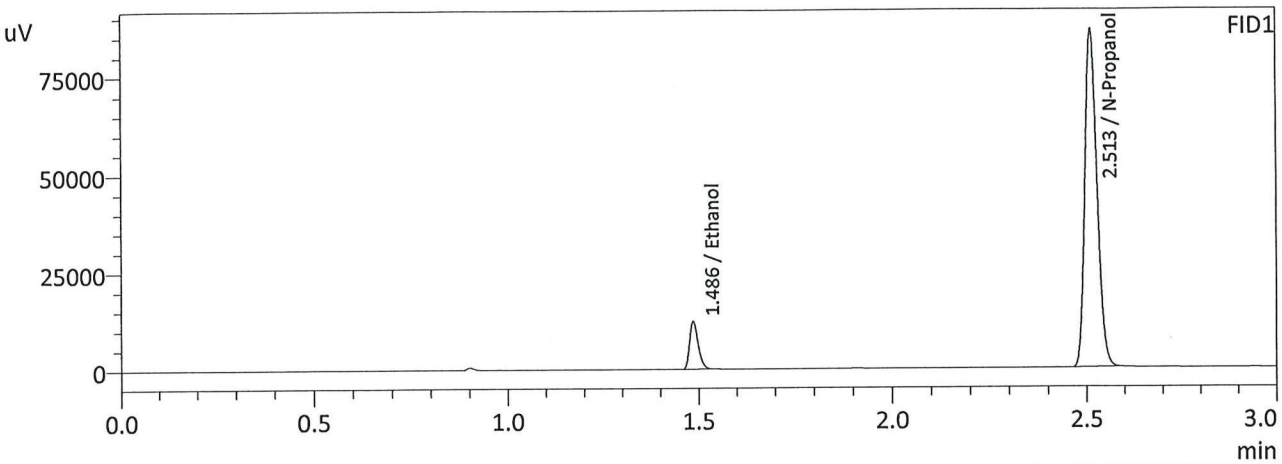
7/17/2023

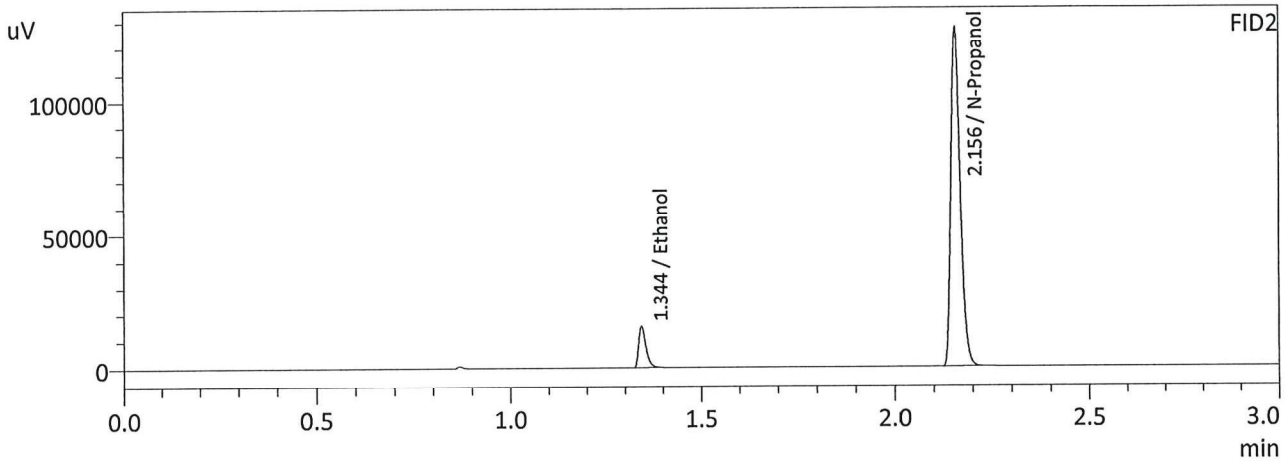
Worklist: 6437

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
M2023-2842	1	BCK	Alcohol Analysis
M2023-2860	1	BCK	Alcohol Analysis
M2023-2865	1	BCK	Alcohol Analysis
M2023-2869	1	BCK	Alcohol Analysis
M2023-2879	2	BCK	Alcohol Analysis
M2023-2883	1	BCK	Alcohol Analysis
M2023-2884	1	BCK	Alcohol Analysis
M2023-2886	1	BCK	Alcohol Analysis
M2023-2887	1	BCK	Alcohol Analysis
M2023-2888	1	BCK	Alcohol Analysis
M2023-2895	1	BCK	Alcohol Analysis
M2023-2917	1	BCK	Alcohol Analysis
M2023-2918	1	BCK	Alcohol Analysis
M2023-2928	1	BCK	Alcohol Analysis
M2023-2929	1	BCK	Alcohol Analysis
M2023-2971	1	BCK	Alcohol Analysis
M2023-2972	1	BCK	Alcohol Analysis
M2023-2973	1	BCK	Alcohol Analysis



Sample Name : 0.050
Laboratory : Meridian
Injection Date : 7/14/2023 1:08:56 PM
Vial # : 1
Method Filename : Default Project - ALCOHOL_230714.gcm
Instrument #GC/HS : C12255750548 / C12595800409





FID1

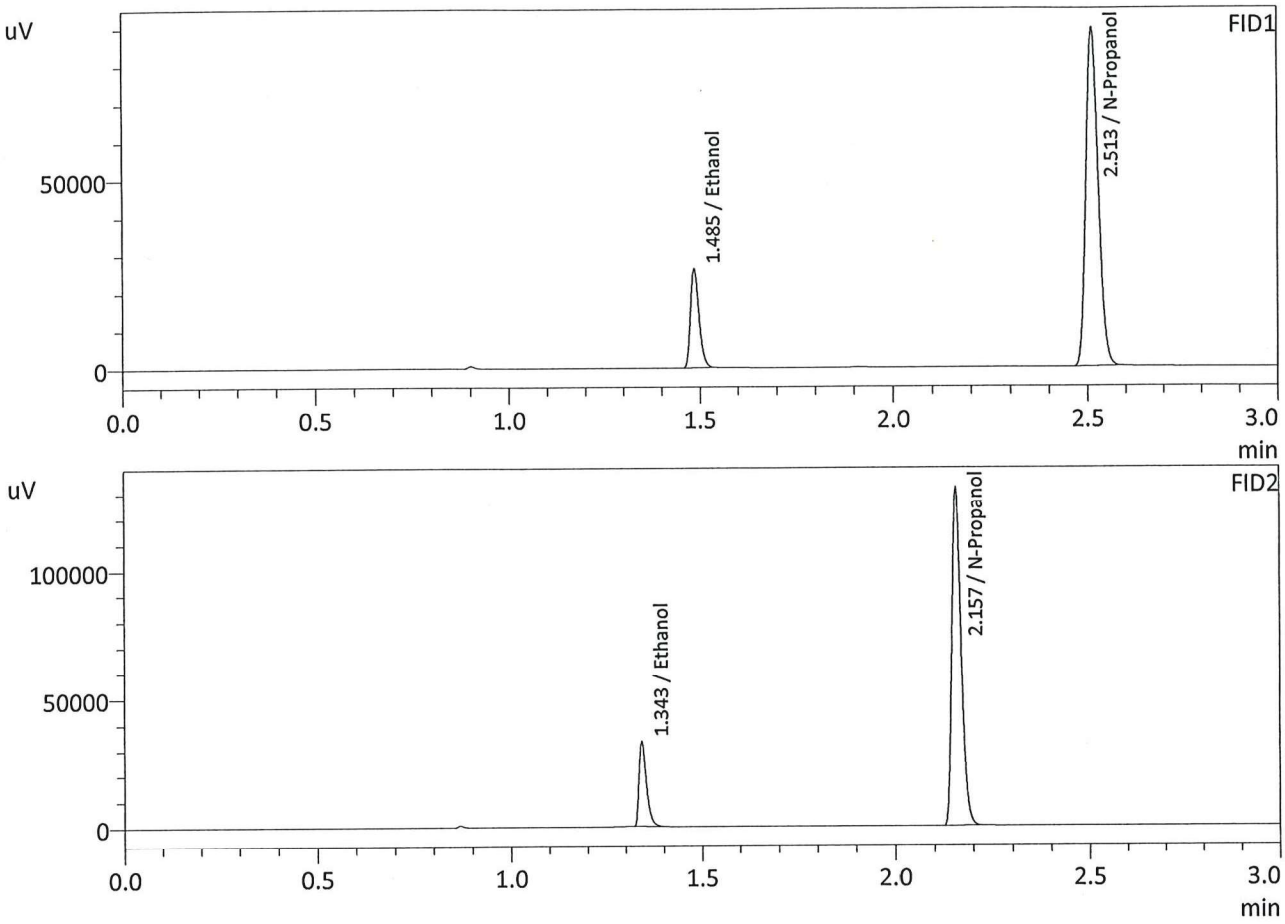
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0501	18970	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	192345	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0499	20683	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	210604	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JC

Sample Name : 0.100
Laboratory : Meridian
Injection Date : 7/14/2023 1:16:16 PM
Vial # : 2
Method Filename : Default Project - ALCOHOL_230714.gcm
Instrument #GC/HS : C12255750548 / C12595800409



FID1

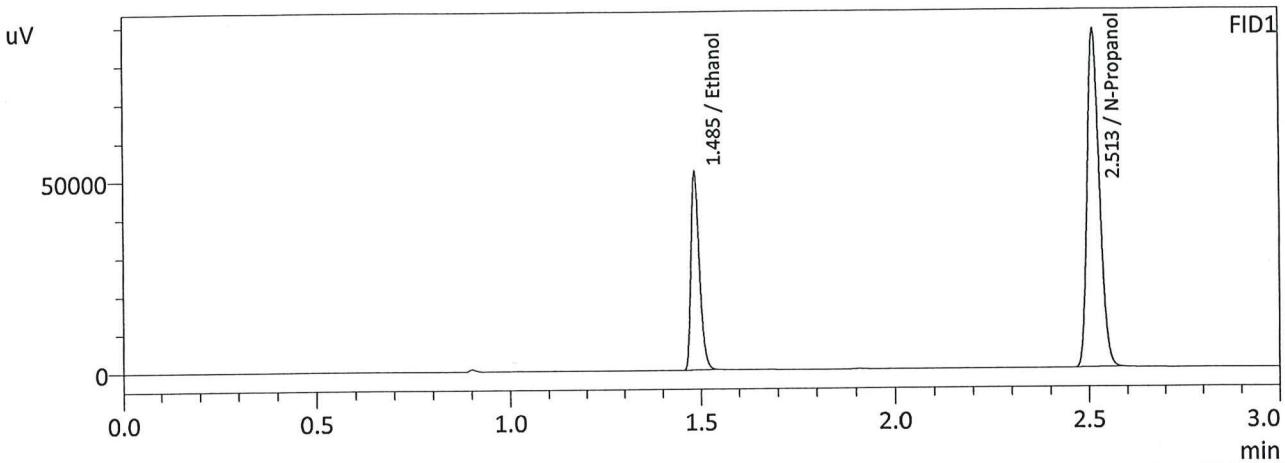
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1010	40383	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	199467	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

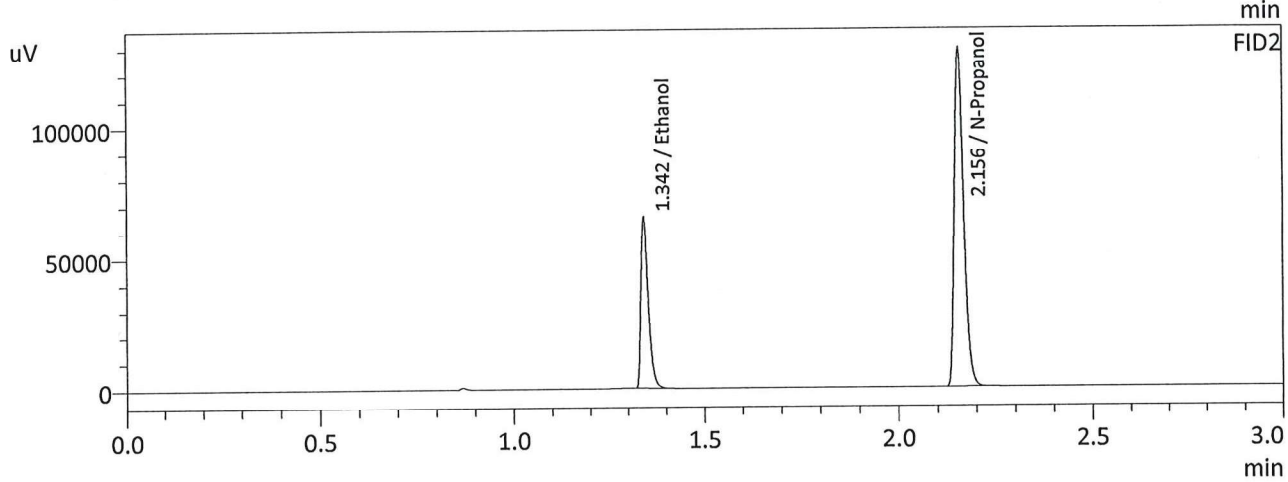
FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1012	44201	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	218215	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JC

Sample Name : 0.200
Laboratory : Meridian
Injection Date : 7/14/2023 1:23:36 PM
Vial # : 3
Method Filename : Default Project - ALCOHOL_230714.gcm
Instrument #GC/HS : C12255750548 / C12595800409





FID1

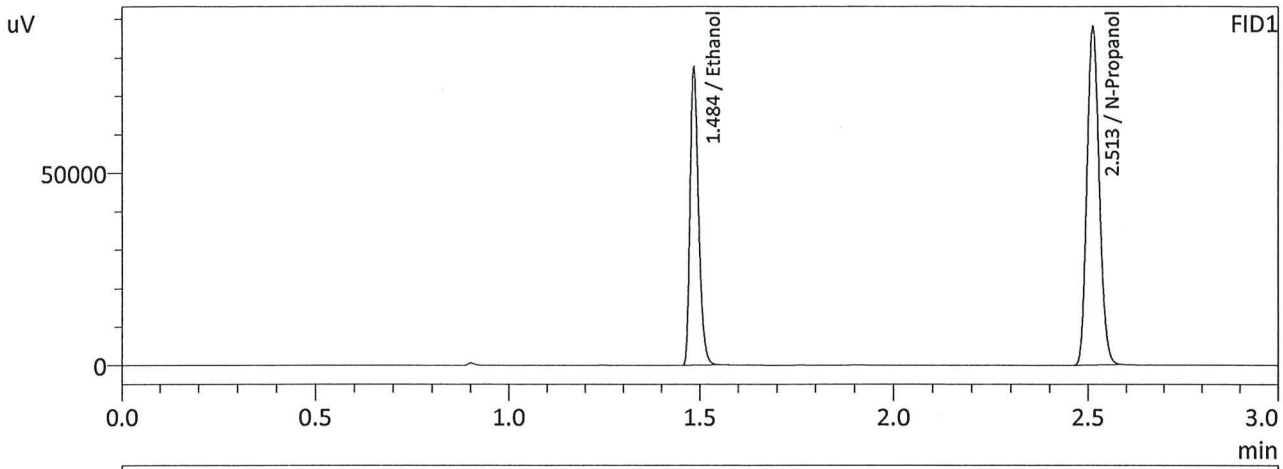
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2001	79270	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	195931	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

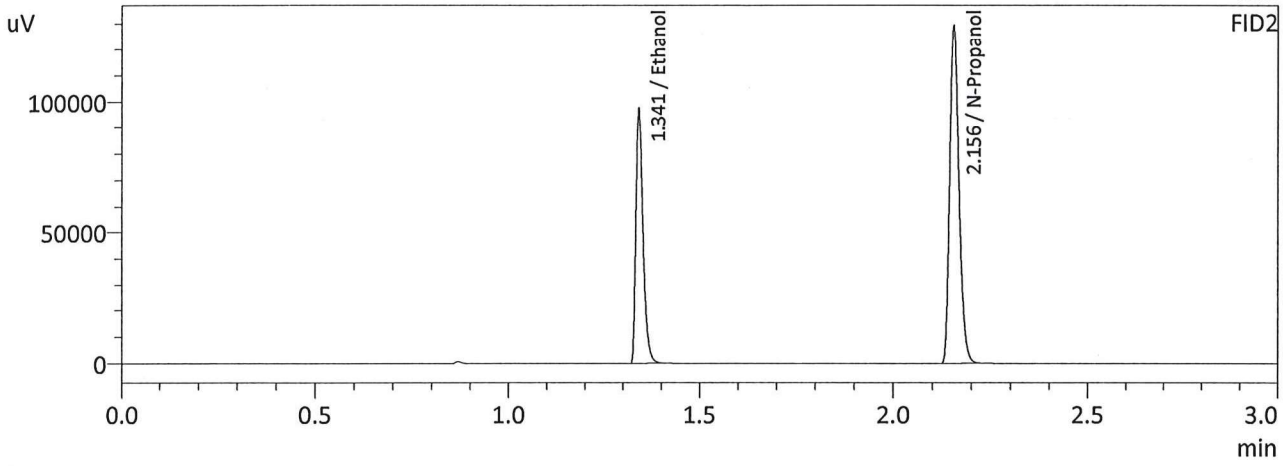
FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2001	86530	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	214371	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JC

Sample Name : 0.300
Laboratory : Meridian
Injection Date : 7/14/2023 1:32:29 PM
Vial # : 4
Method Filename : Default Project - ALCOHOL_230714.gcm
Instrument #GC/HS : C12255750548 / C12595800409





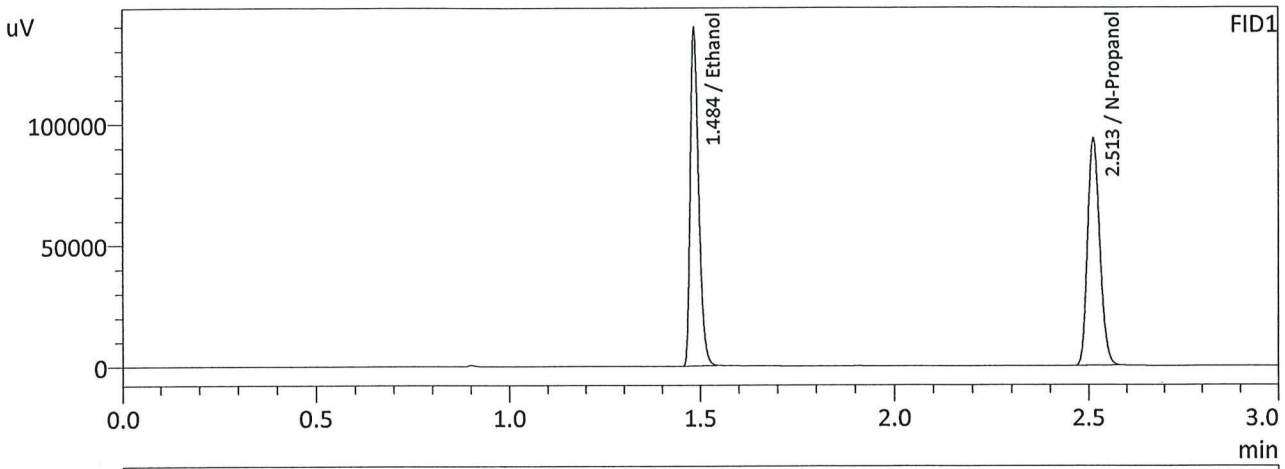
FID1

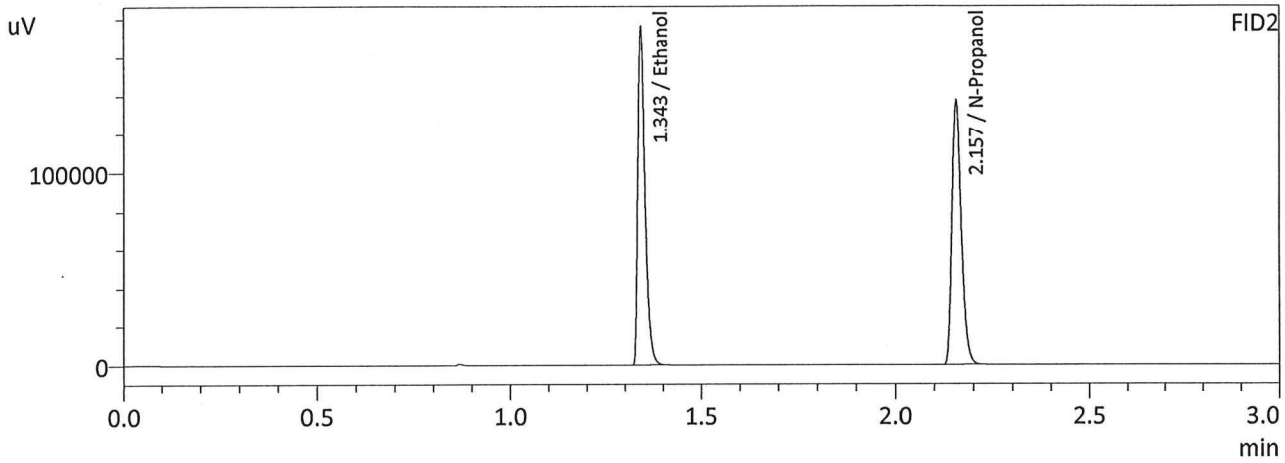
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2972	117846	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	195545	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2972	128446	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	213674	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

Sample Name : 0.500
Laboratory : Meridian
Injection Date : 7/14/2023 1:41:04 PM
Vial # : 5
Method Filename : Default Project - ALCOHOL_230714.gcm
Instrument #GC/HS : C12255750548 / C12595800409





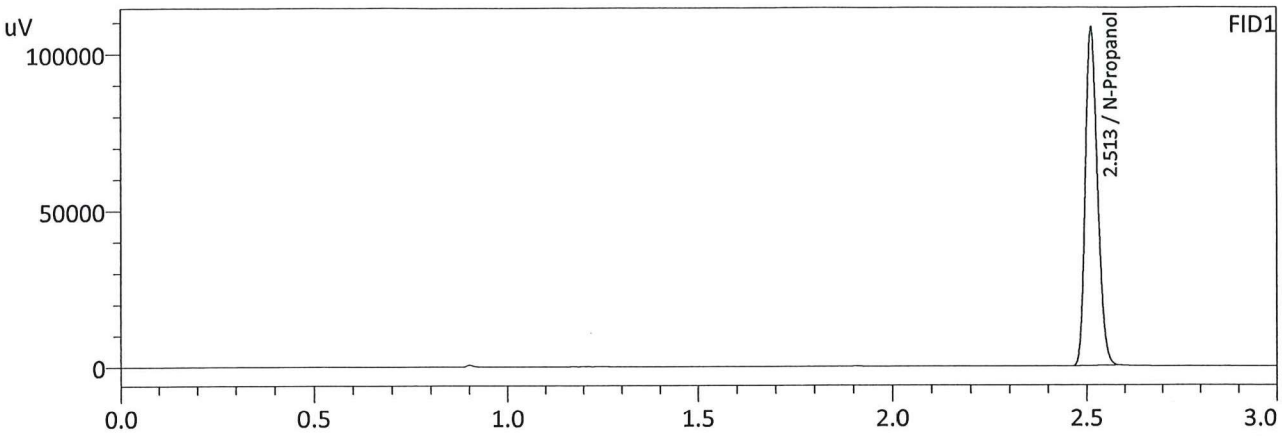
FID1

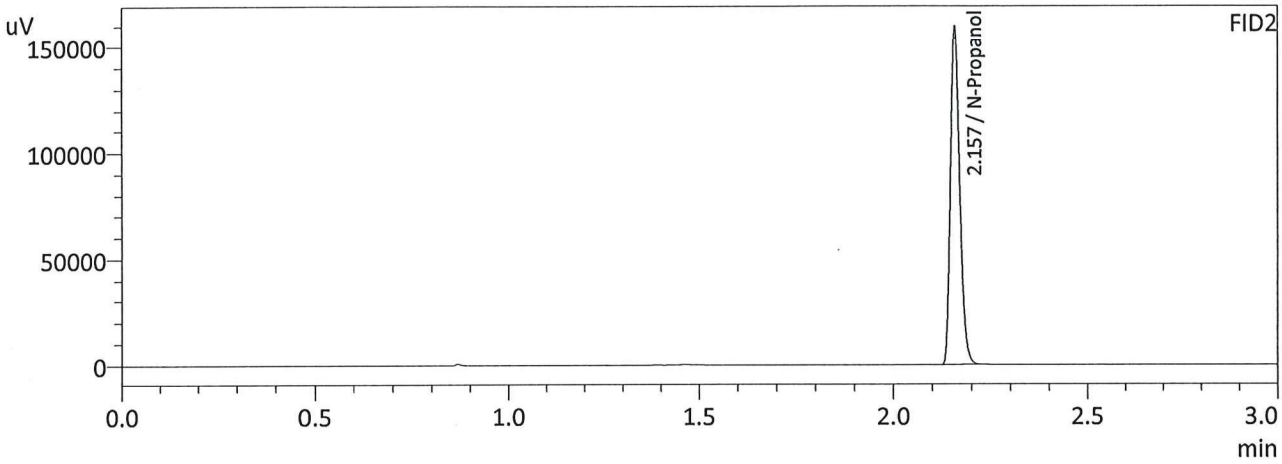
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.5013	212301	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	208284	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.5013	231255	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	227587	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

Sample Name : INT STD BLK
Laboratory : Meridian
Injection Date : 7/14/2023 1:48:15 PM
Vial # : 6
Method Filename : Default Project - ALCOHOL_230714.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	240279	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	263559	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

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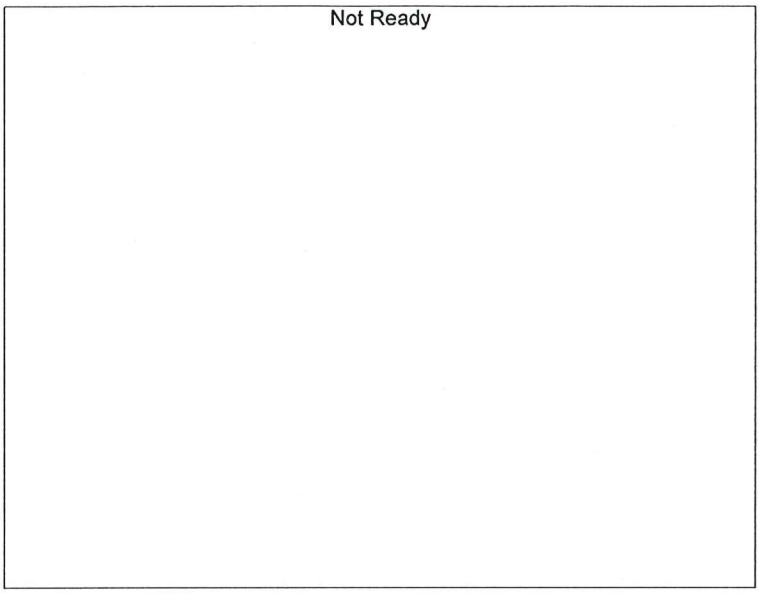
Calibration Table

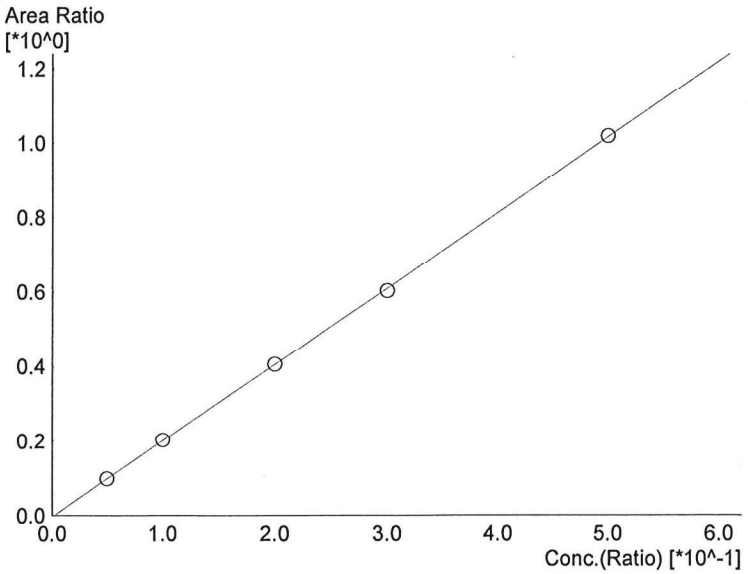
Laboratory : MERIDIAN
Instrument Name : GC-BAC
Instrument Serial # : C12595800409 / C12255750548

<<Data File>>
Method File :Default Project - ALCOHOL_230714.gcm
Batch File :Default Project - CALCURVE_230714.gcb
Date Acquired :7/14/2023 1:41:04 PM
Date Created :7/14/2023 1:35:32 PM
Date Modified :7/14/2023 2:03:55 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)=2.04050*x-0.00379535
R^2 value= 0.9999145
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
1	0.050	18970	0.0501
2	0.100	40383	0.1010
3	0.200	79270	0.2001
4	0.300	117846	0.2972
5	0.500	212301	0.5013

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

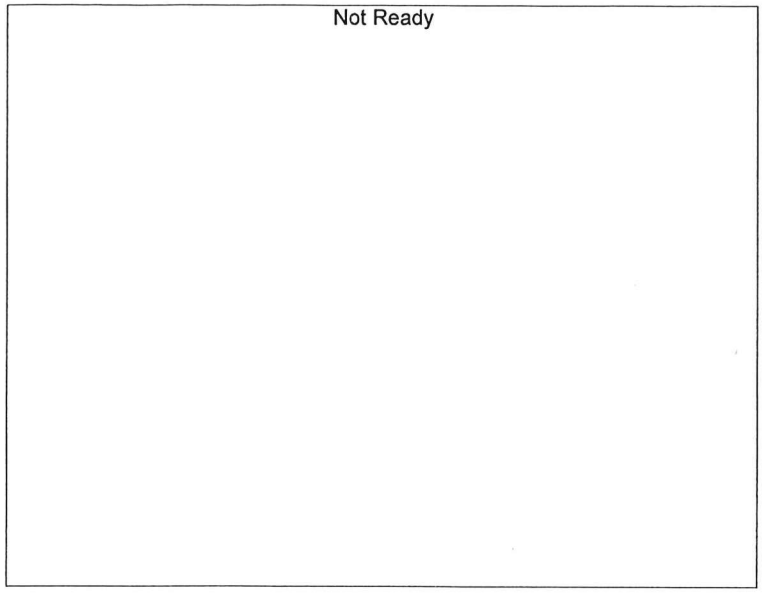
#	Conc.	Area	Std. Conc.

Not Ready

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

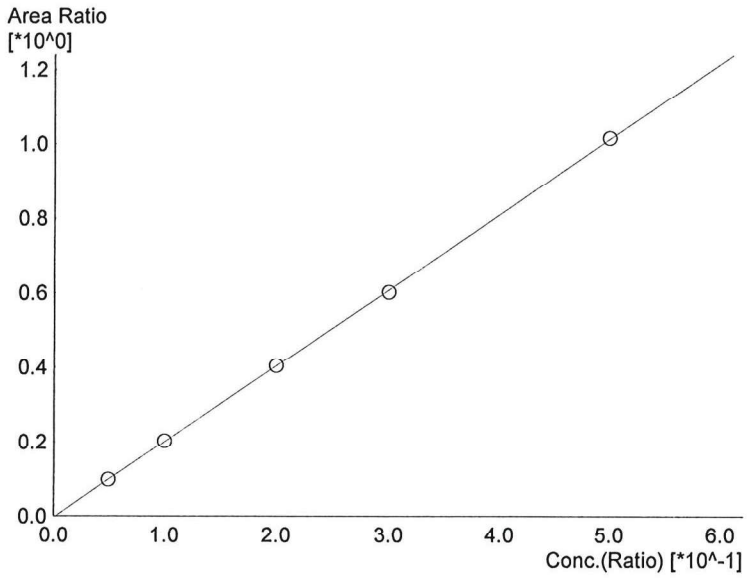
#	Conc.	Area	Std. Conc.

JC



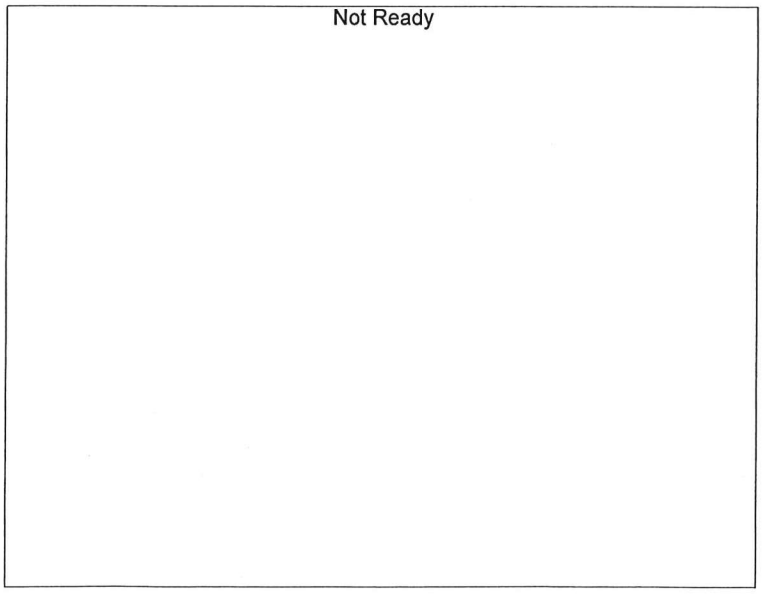
Name : Methanol
Detector Name: FID2
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.



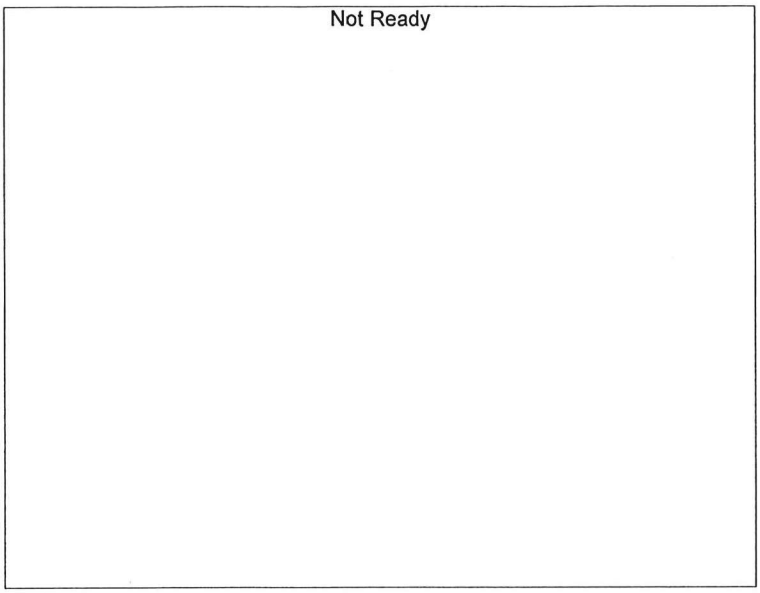
Name : Ethanol
Detector Name: FID2
Function : f(x)=2.03368*x-0.00341507
R^2 value= 0.9999150
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
1	0.050	20683	0.0499
2	0.100	44201	0.1012
3	0.200	86530	0.2001
4	0.300	128446	0.2972
5	0.500	231255	0.5013



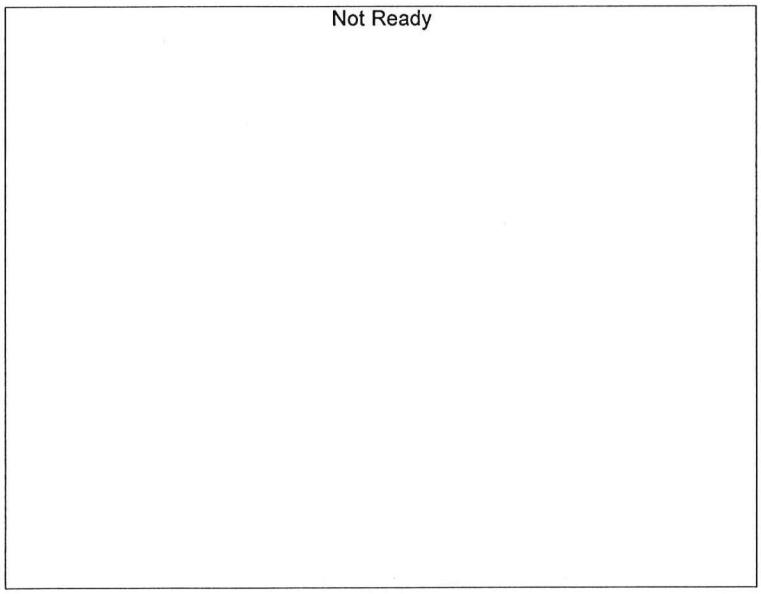
Name : Acetone
Detector Name: FID2
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	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.

Ja

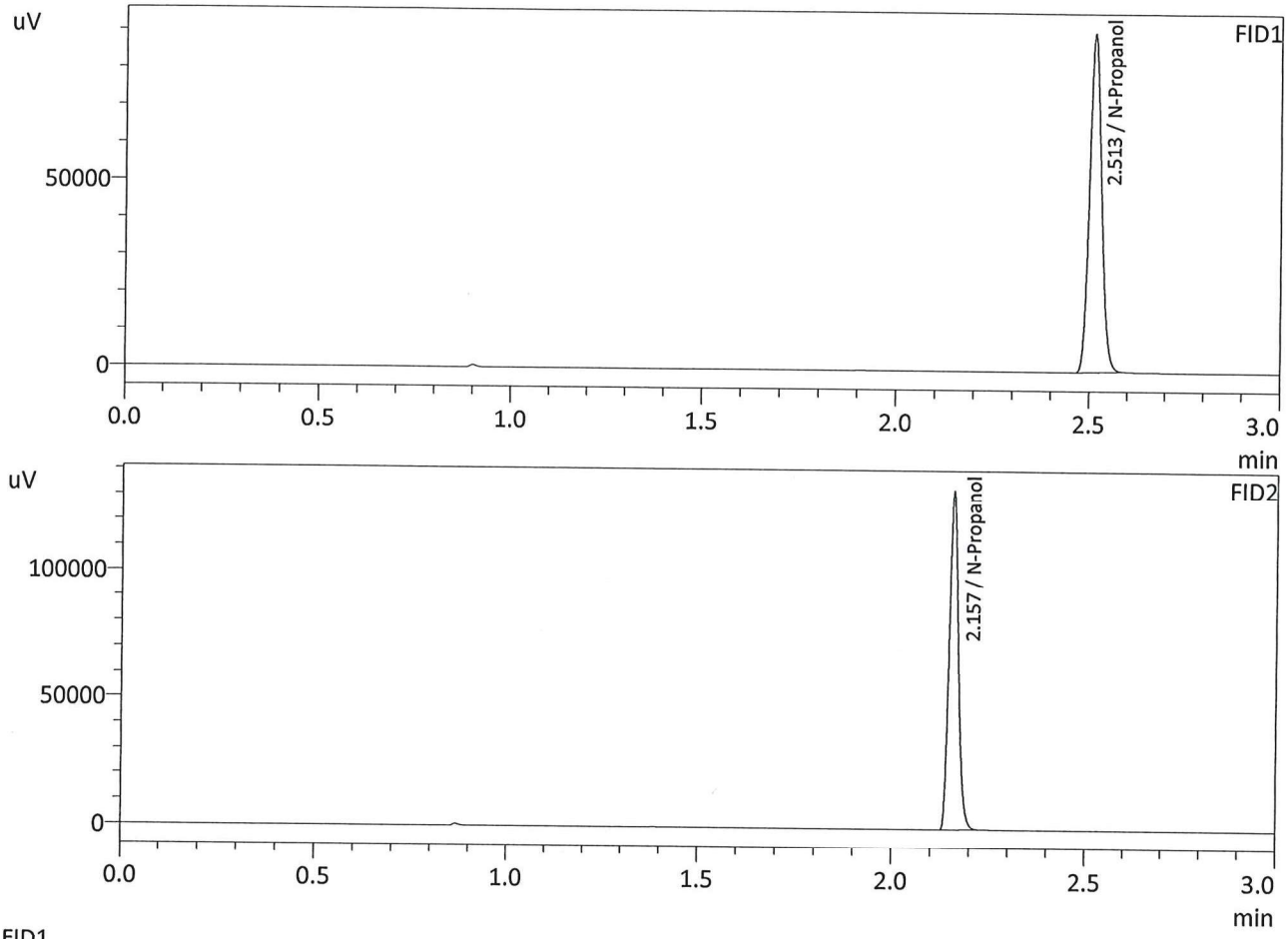
Meridian Blood Alcohol Analysis Batch Table

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	0:Unknown	1	ALCOHOL 230714.gcm
2	0.100	0:Unknown	2	ALCOHOL 230714.gcm
3	0.200	0:Unknown	3	ALCOHOL 230714.gcm
4	0.300	0:Unknown	4	ALCOHOL 230714.gcm
5	0.500	0:Unknown	5	ALCOHOL 230714.gcm
6	INT STD BLK	0:Unknown	0	ALCOHOL 230714.gcm

JC

Sample Name	: INT STD BLK 1
Laboratory	: Meridian
Injection Date	: 7/14/2023 2:39:27 PM
Vial #	: 1
Method Filename	: Default Project - ALCOHOL_230714.gcm
Instrument #GC/HS	: C12255750548 / C12595800409



FID1

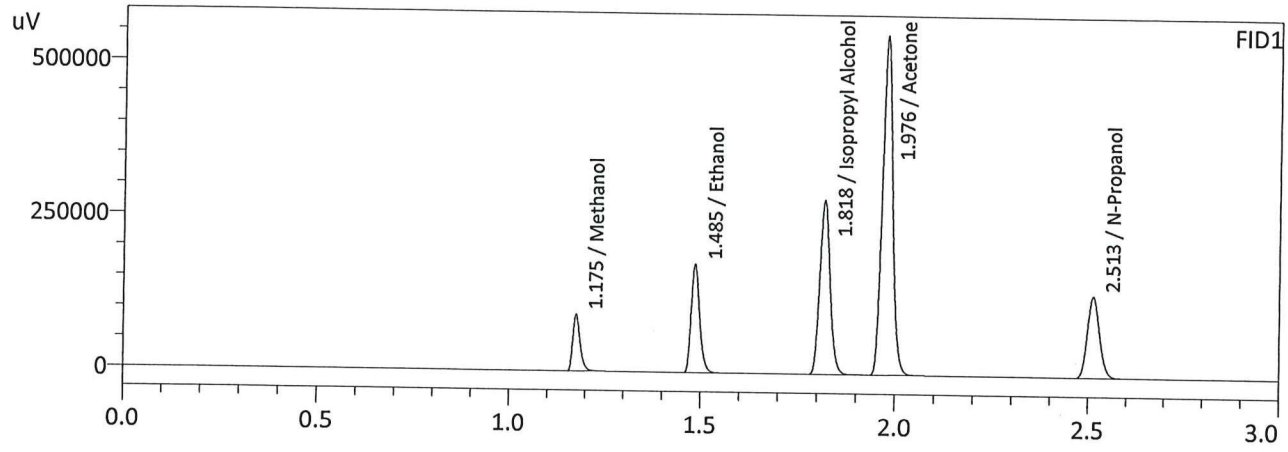
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	201466	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

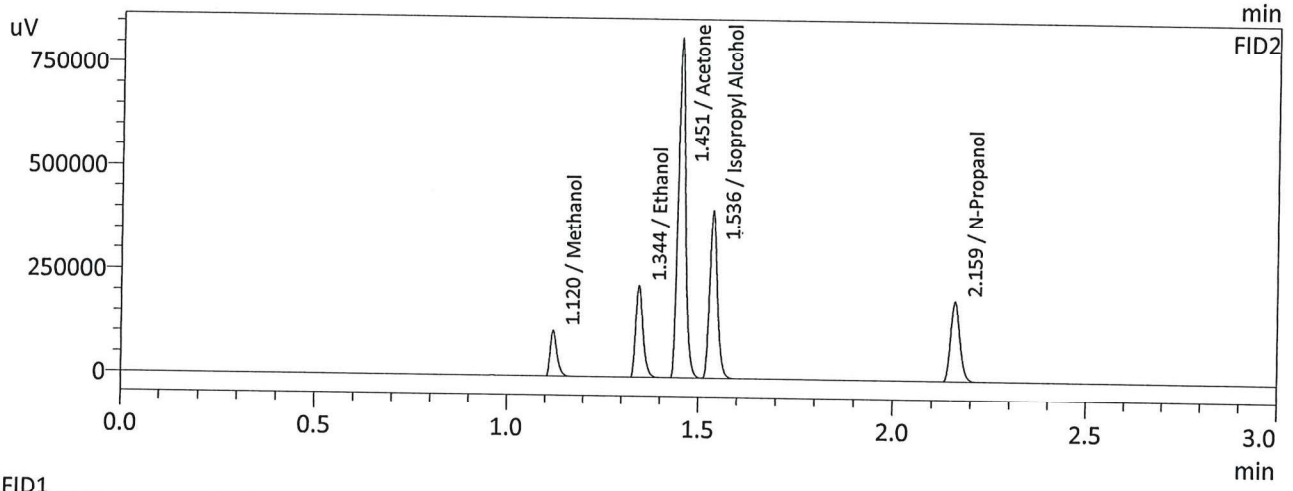
FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	220725	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JC

Sample Name : MIXED VOLATILES FN 06041902
Laboratory : Meridian
Injection Date : 7/14/2023 2:46:49 PM
Vial # : 2
Method Filename : Default Project - ALCOHOL_230714.gcm
Instrument #GC/HS : C12255750548 / C12595800409





FID1

Name	Conc.	Area	Unit
Methanol	0.0000	124637	g/100cc
Ethanol	0.4516	269202	g/100cc
Isopropyl Alcohol	0.0000	519076	g/100cc
Acetone	0.0000	1020099	g/100cc
N-Propanol	0.0000	293326	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	0.0000	136178	g/100cc
Ethanol	0.4514	292446	g/100cc
Acetone	0.0000	1102207	g/100cc
Isopropyl Alcohol	0.0000	562024	g/100cc
N-Propanol	0.0000	319755	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JL

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: QC-1-1 **Analysis Date(s): 7/14/2023 2:54:24 PM(-06:00)**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0760	0.0757	0.0003	0.0758	0.0006	0.0761
(g/100cc)	0.0765	0.0764	0.0001	0.0764		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information — Instrument information is stored centrally.

Refer To Instrument Method: ALCOHOL_230714.gcm

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

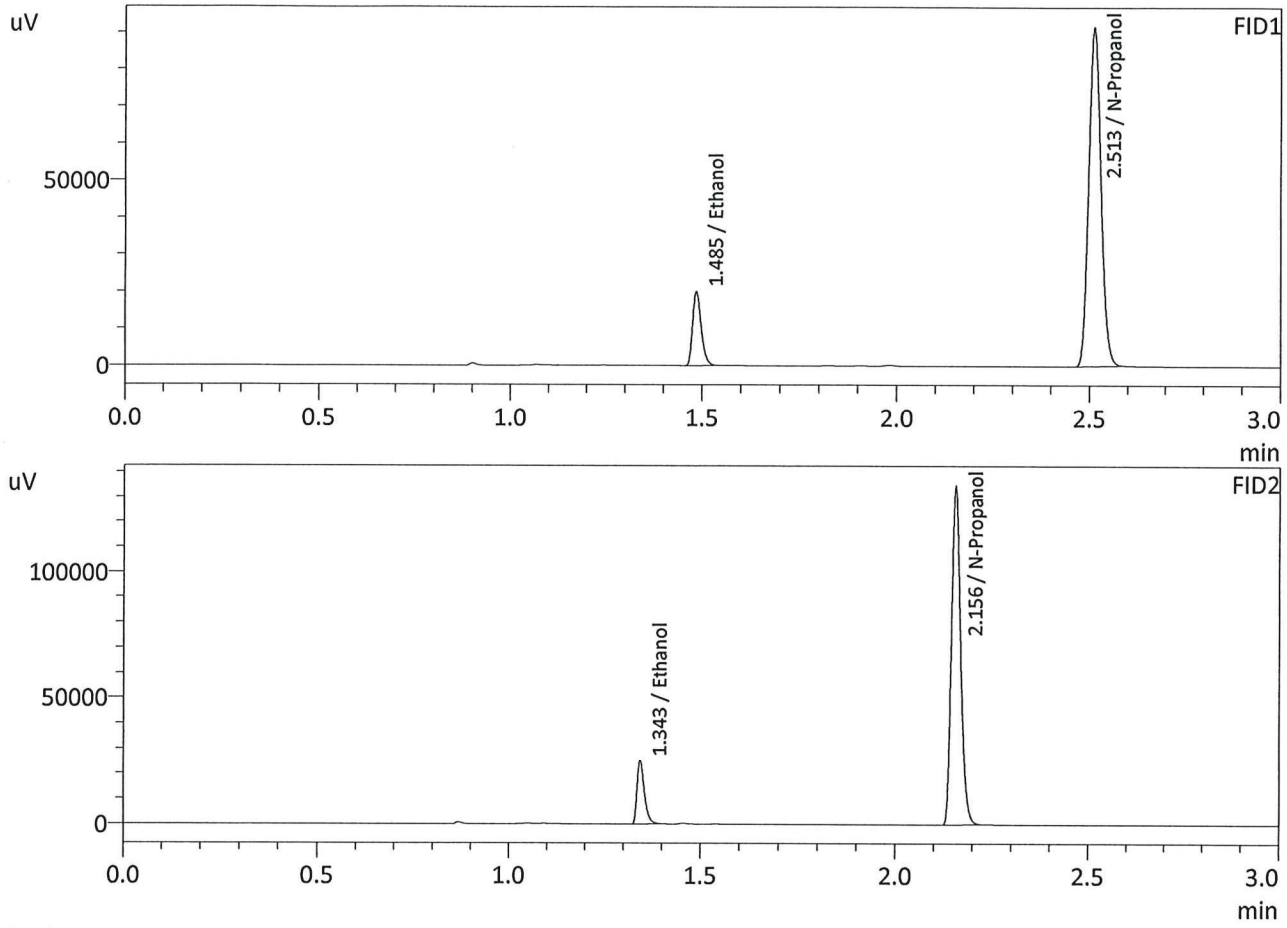
Overall Mean (g/100cc)	Low	High	5 % of Mean
0.076	0.072	0.080	0.004

Reported Results
0.076

Calibration and control data are stored centrally.

JV

Sample Name	: QC-1-1
Laboratory	: Meridian
Injection Date	: 7/14/2023 2:54:24 PM
Vial #	: 3
Method Filename	: Default Project - ALCOHOL_230714.gcm
Instrument #GC/HS	: C12255750548 / C12595800409



FID1

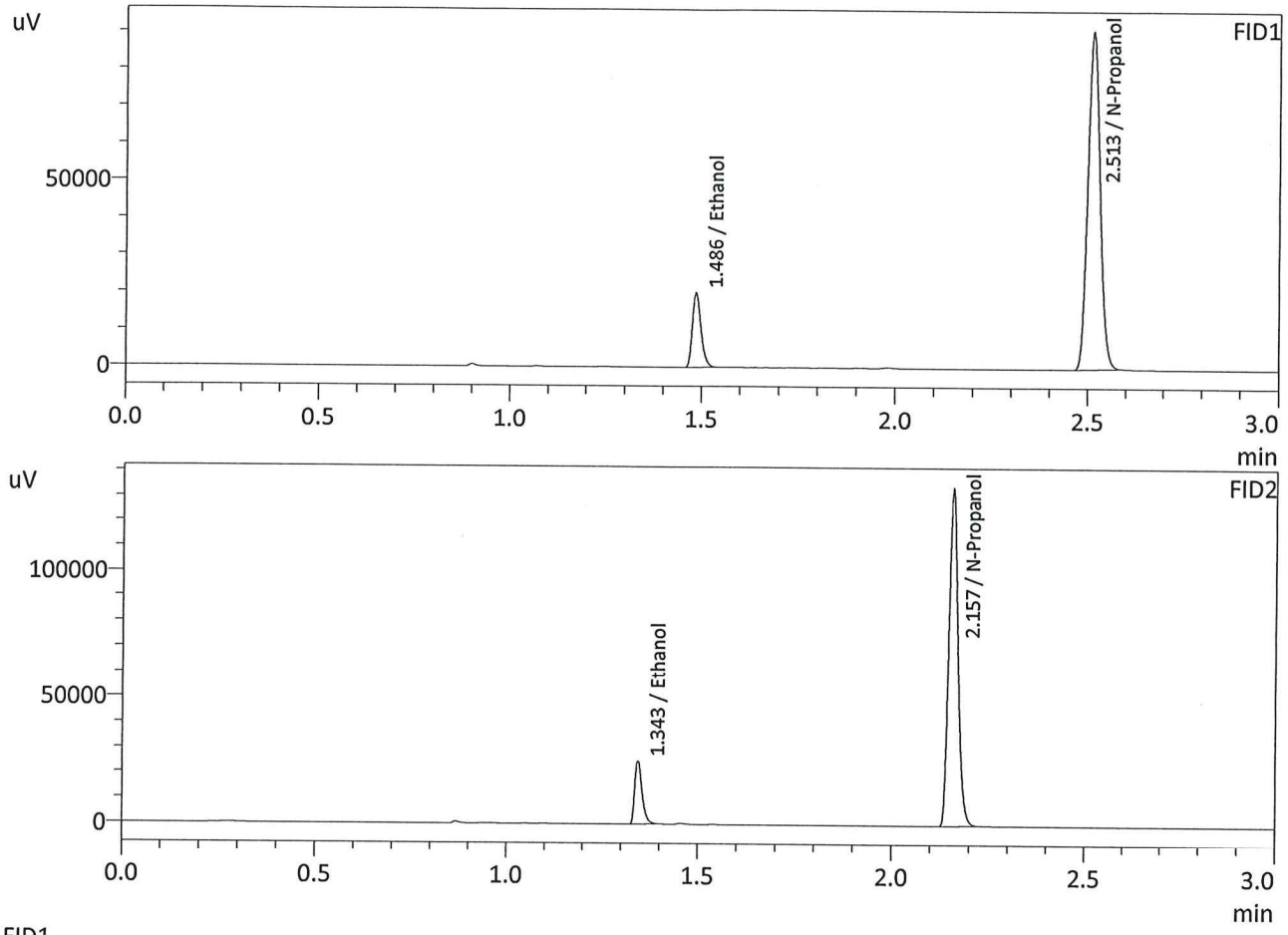
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0760	30765	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	203240	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0757	33532	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	222503	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JC

Sample Name : QC-1-1-B
Laboratory : Meridian
Injection Date : 7/14/2023 3:02:47 PM
Vial # : 4
Method Filename : Default Project - ALCOHOL_230714.gcm
Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0765	30854	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	202336	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0764	33704	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	221652	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

Jc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: 0.08 QA **Analysis Date(s): 7/14/2023 3:10:33 PM(-06:00)**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0786	0.0783	0.0003	0.0784	0.0013	0.0790
(g/100cc)	0.0798	0.0796	0.0002	0.0797		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information — Instrument information is stored centrally.

Refer To Instrument Method: ALCOHOL_230714.gcm

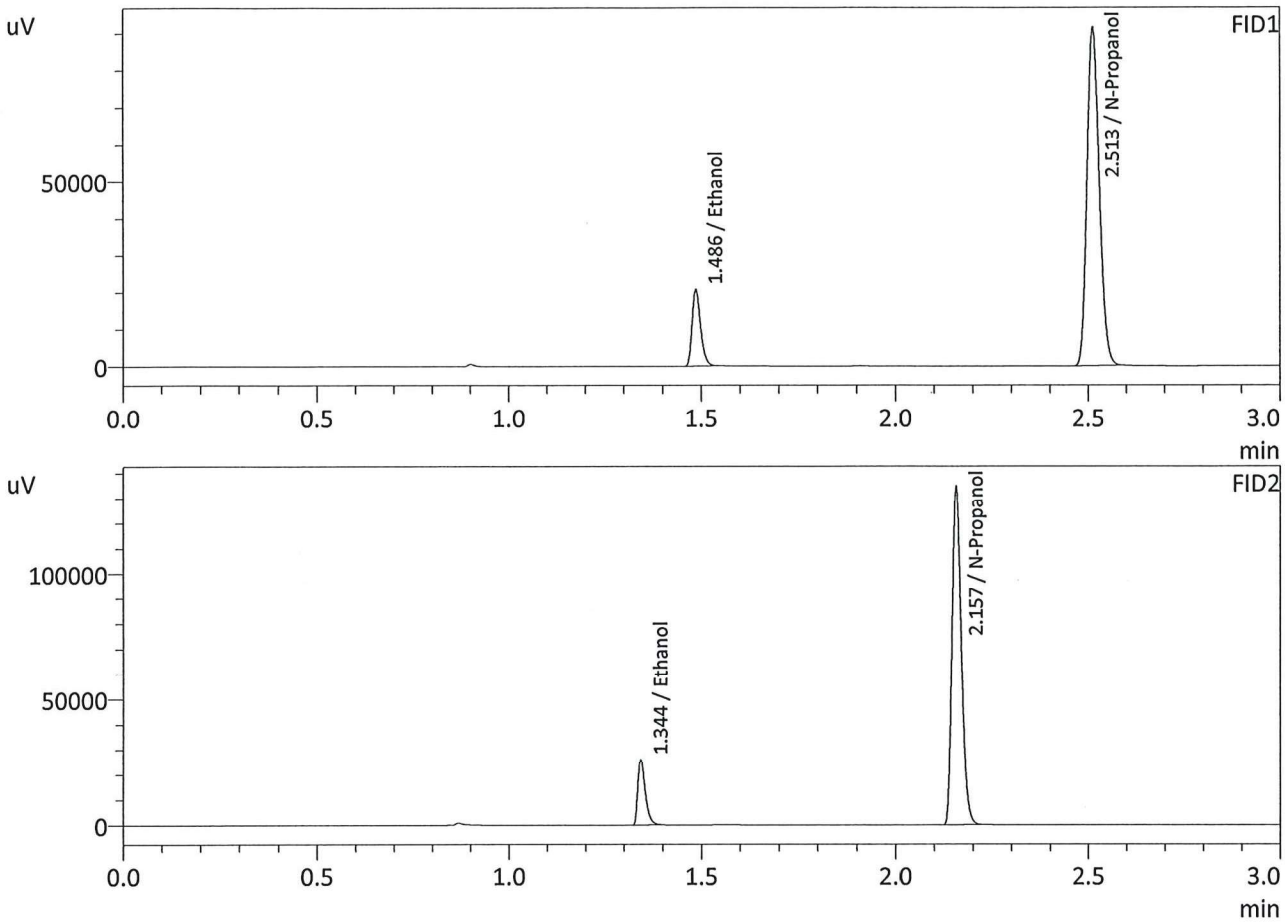
Reporting of Results	Uncertainty of Measurements (UM%):	5.00%

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

Reported Results
0.079

Calibration and control data are stored centrally.

Sample Name : 0.08 QA
Laboratory : Meridian
Injection Date : 7/14/2023 3:10:33 PM
Vial # : 5
Method Filename : Default Project - ALCOHOL_230714.gcm
Instrument #GC/HS : C12255750548 / C12595800409



FID1

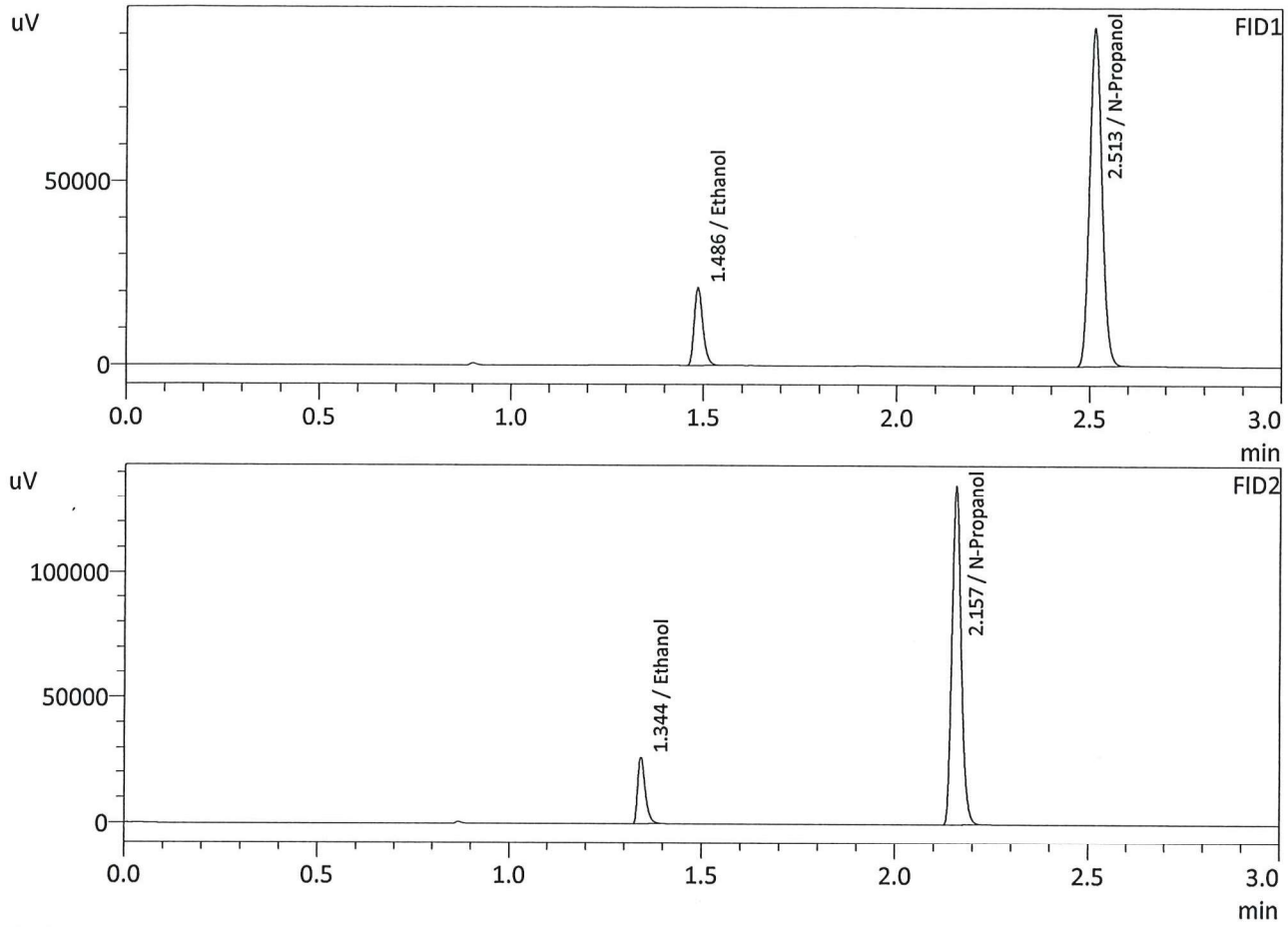
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0786	31912	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	203641	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0783	34778	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	223054	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

Sample Name : 0.08 QA
Laboratory : Meridian
Injection Date : 7/14/2023 3:19:09 PM
Vial # : 6
Method Filename : Default Project - ALCOHOL_230714.gcm
Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0798	32504	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	204313	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0796	35484	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	223839	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JU

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: QC-2-1 **Analysis Date(s): 7/14/2023 5:52:19 PM(-06:00)**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.1996	0.1995	0.0001	0.1995	0.0033	0.1979
(g/100cc)	0.1962	0.1963	0.0001	0.1962		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information — Instrument information is stored centrally.

Refer To Instrument Method: ALCOHOL_230714.gcm

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

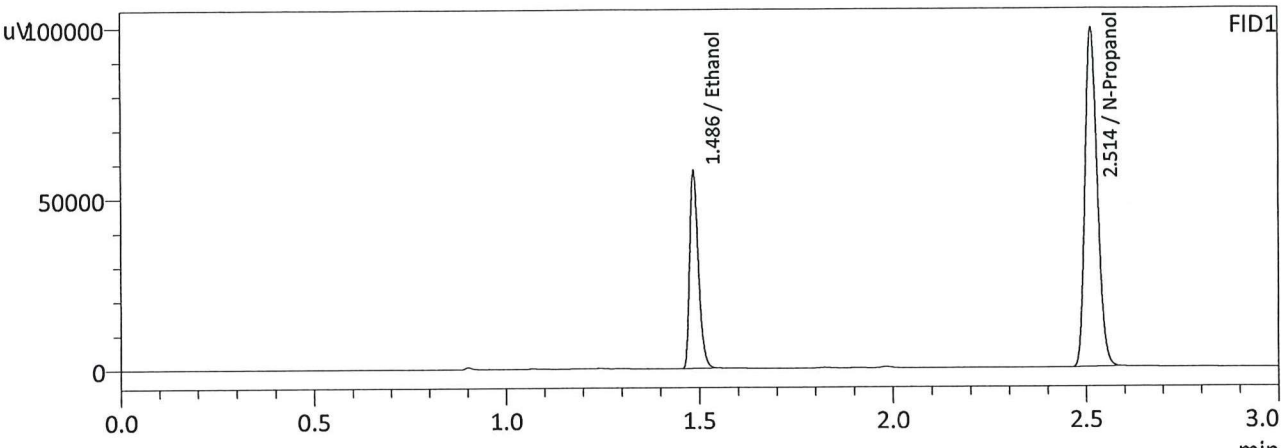
Overall Mean (g/100cc)	Low	High	5 % of Mean
0.197	0.187	0.207	0.010

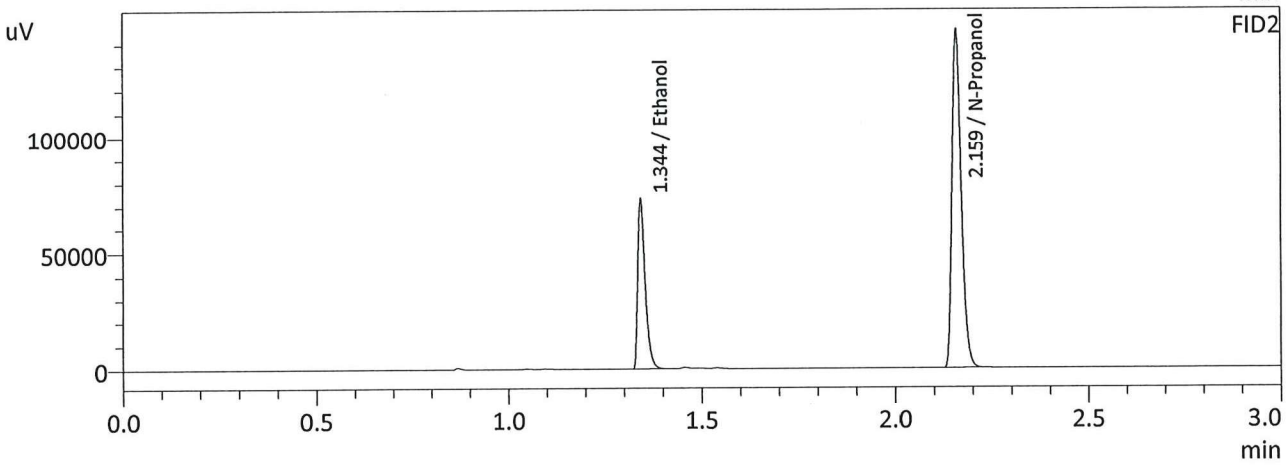
Reported Results
0.197

Calibration and control data are stored centrally.

JL

Sample Name : QC-2-1
Laboratory : Meridian
Injection Date : 7/14/2023 5:52:19 PM
Vial # : 25
Method Filename : Default Project - ALCOHOL_230714.gcm
Instrument #GC/HS : C12255750548 / C12595800409





FID1

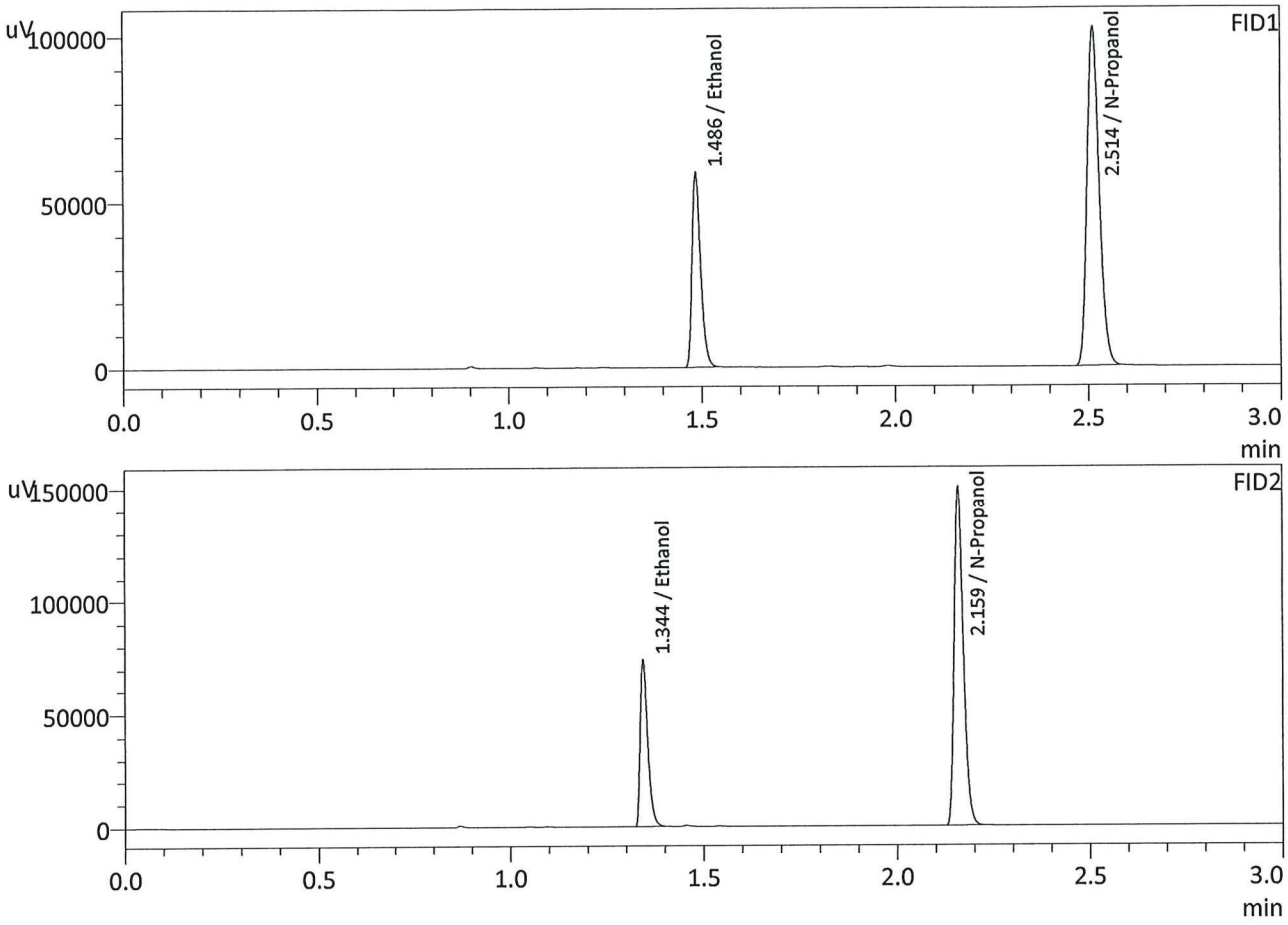
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1996	88982	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	220449	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1995	97103	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	241328	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JC

Sample Name : QC-2-1-B
Laboratory : Meridian
Injection Date : 7/14/2023 6:00:55 PM
Vial # : 26
Method Filename : Default Project - ALCOHOL_230714.gcm
Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1962	90067	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	227058	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1963	98433	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	248682	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: QC1-2 **Analysis Date(s): 7/14/2023 8:35:38 PM(-06:00)**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0807	0.0803	0.0004	0.0805	0.0012	0.0799
(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_230714.gcm

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

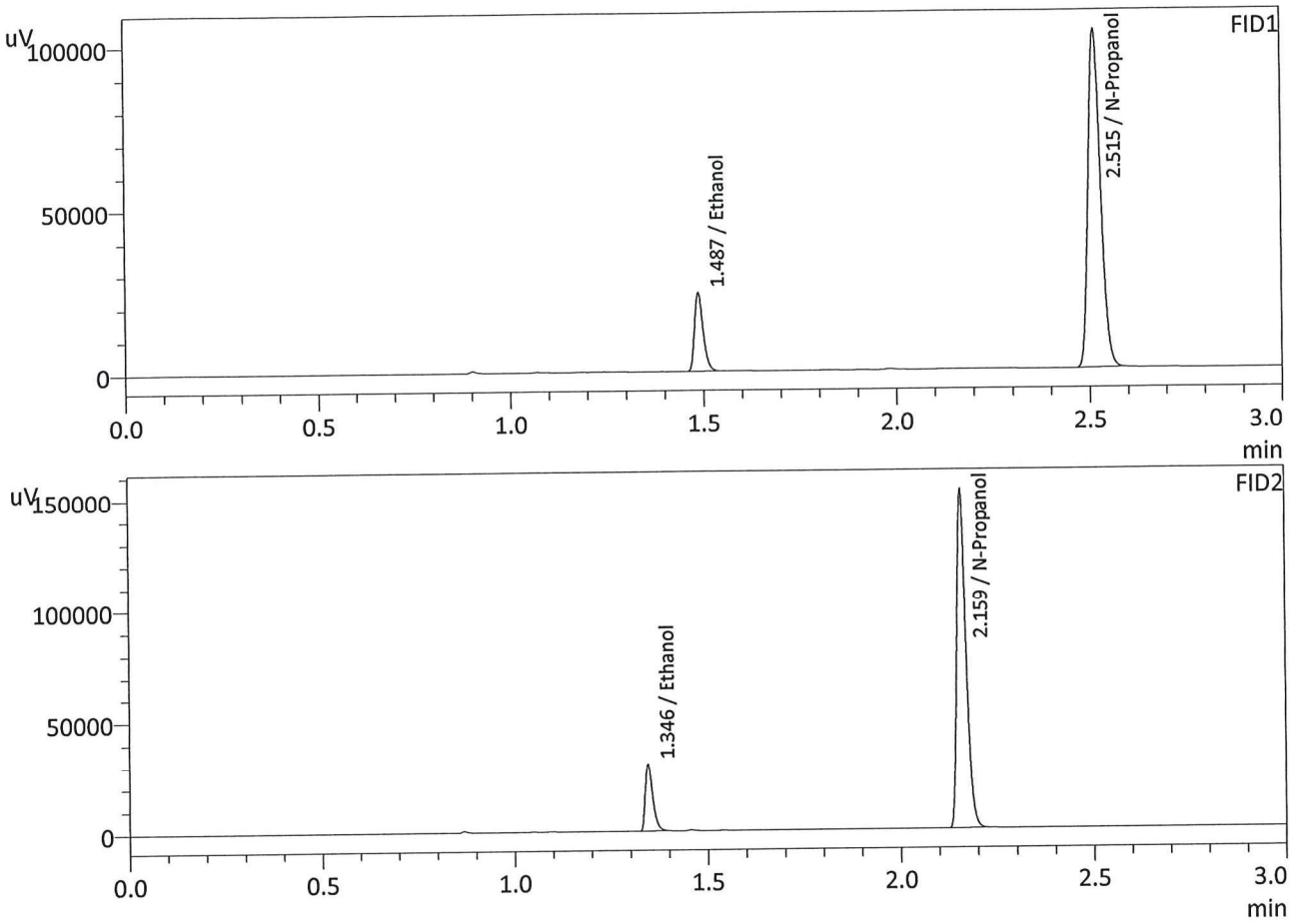
Overall Mean (g/100cc)	Low	High	5 % of Mean
0.079	0.075	0.083	0.004

Reported Results
0.079

Calibration and control data are stored centrally.

JC

Sample Name : QC1-2
Laboratory : Meridian
Injection Date : 7/14/2023 8:35:38 PM
Vial # : 45
Method Filename : Default Project - ALCOHOL_230714.gcm
Instrument #GC/HS : C12255750548 / C12595800409



FID1

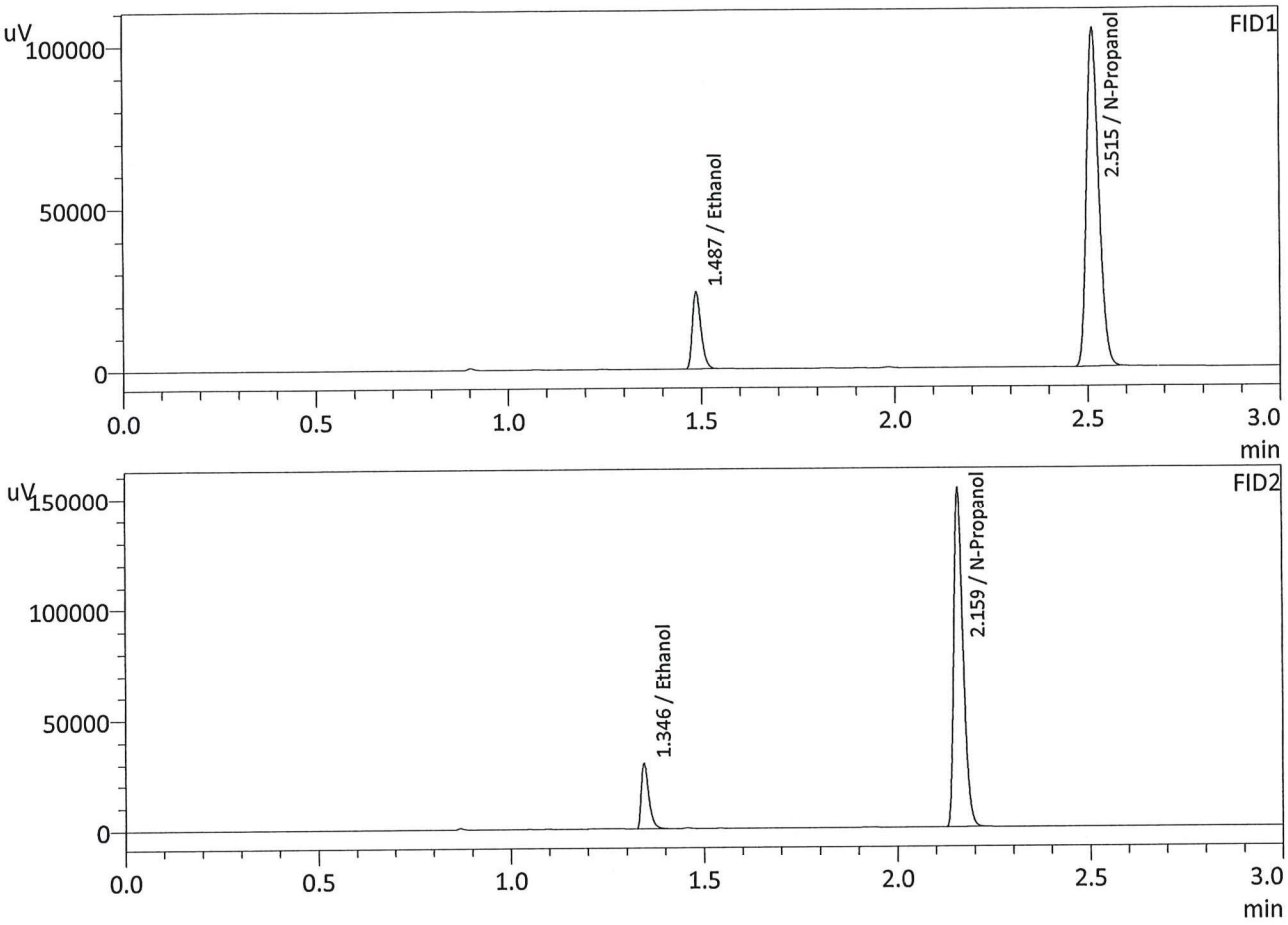
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0807	37011	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	230007	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0803	40348	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	252115	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JL

Sample Name : QC1-2-B
Laboratory : Meridian
Injection Date : 7/14/2023 8:43:03 PM
Vial # : 46
Method Filename : Default Project - ALCOHOL_230714.gcm
Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0794	36626	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	231264	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0793	40060	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	253695	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JC

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: QC2-2 **Analysis Date(s): 7/14/2023 8:51:26 PM(-06:00)**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.2054	0.2054	0.0000	0.2054	0.0018	0.2045
(g/100cc)	0.2037	0.2036	0.0001	0.2036		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information — Instrument information is stored centrally.

Refer To Instrument Method: ALCOHOL_230714.gcm

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

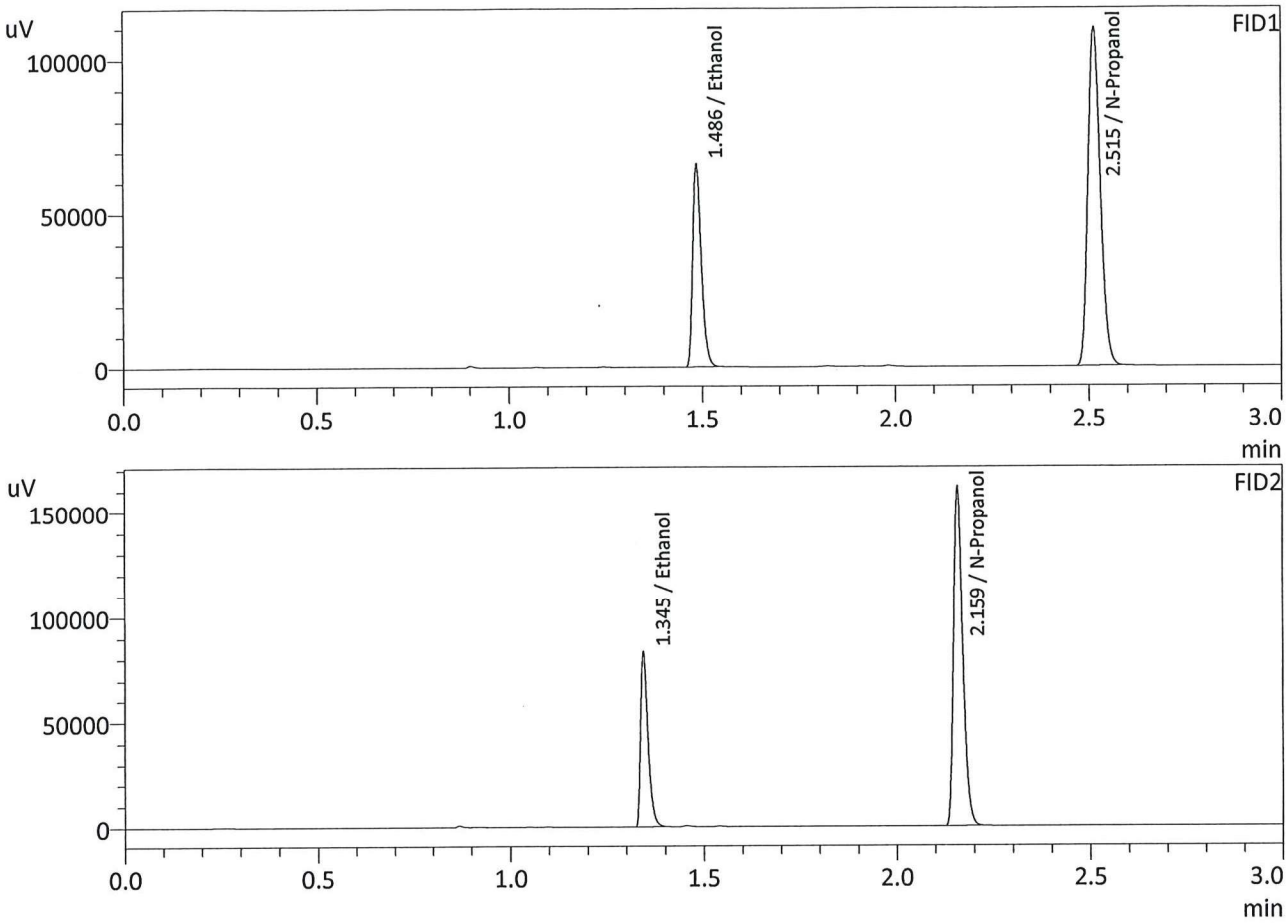
Overall Mean (g/100cc)	Low	High	5 % of Mean
0.204	0.193	0.215	0.011

Reported Results
0.204

Calibration and control data are stored centrally.

JL

Sample Name : QC2-2
Laboratory : Meridian
Injection Date : 7/14/2023 8:51:26 PM
Vial # : 47
Method Filename : Default Project - ALCOHOL_230714.gcm
Instrument #GC/HS : C12255750548 / C12595800409



FID1

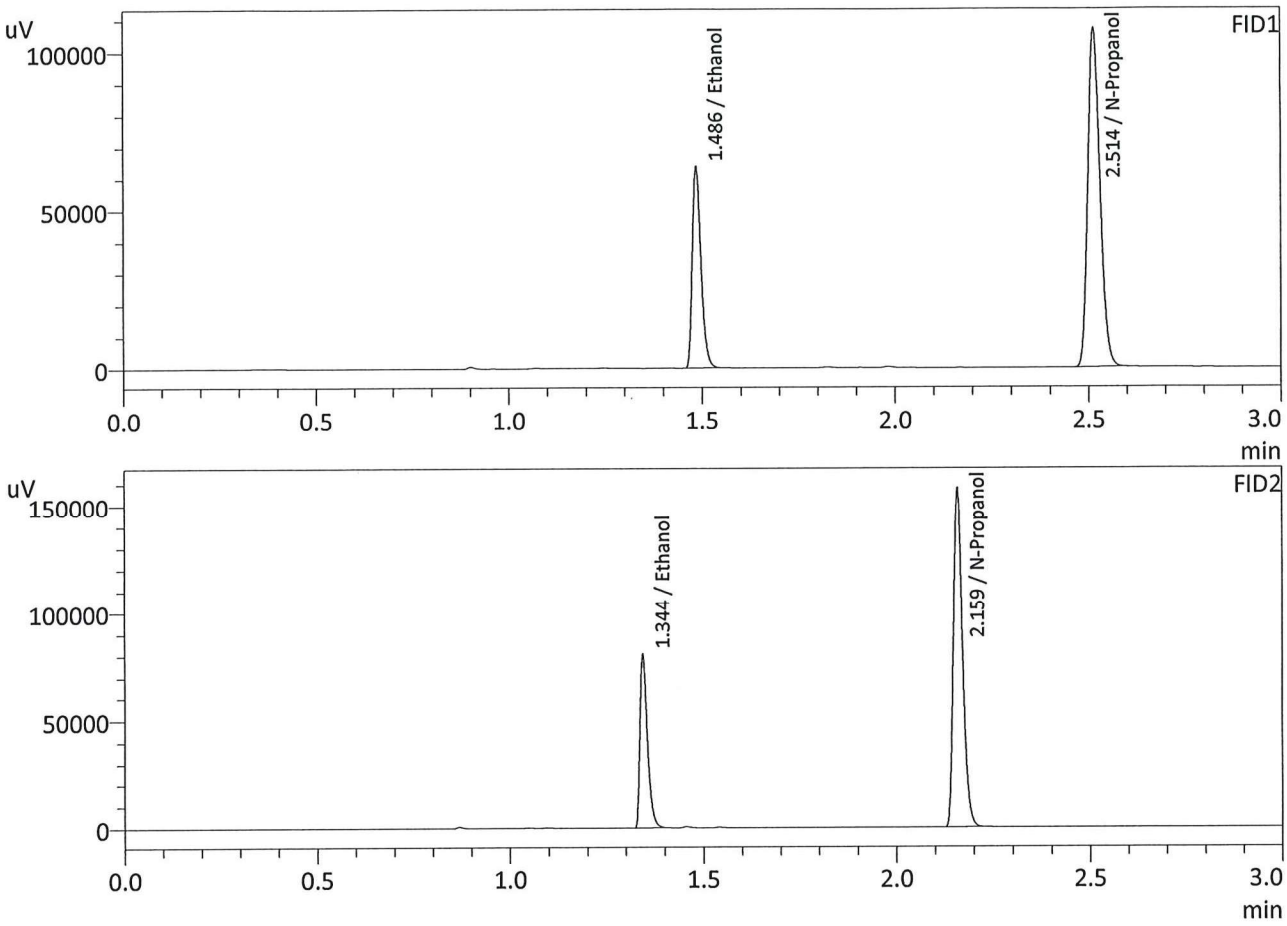
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2054	101375	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	244039	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2054	110750	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	267282	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JC

Sample Name : QC2-2-B
Laboratory : Meridian
Injection Date : 7/14/2023 9:00:21 PM
Vial # : 48
Method Filename : Default Project - ALCOHOL_230714.gcm
Instrument #GC/HS : C12255750548 / C12595800409



FID1

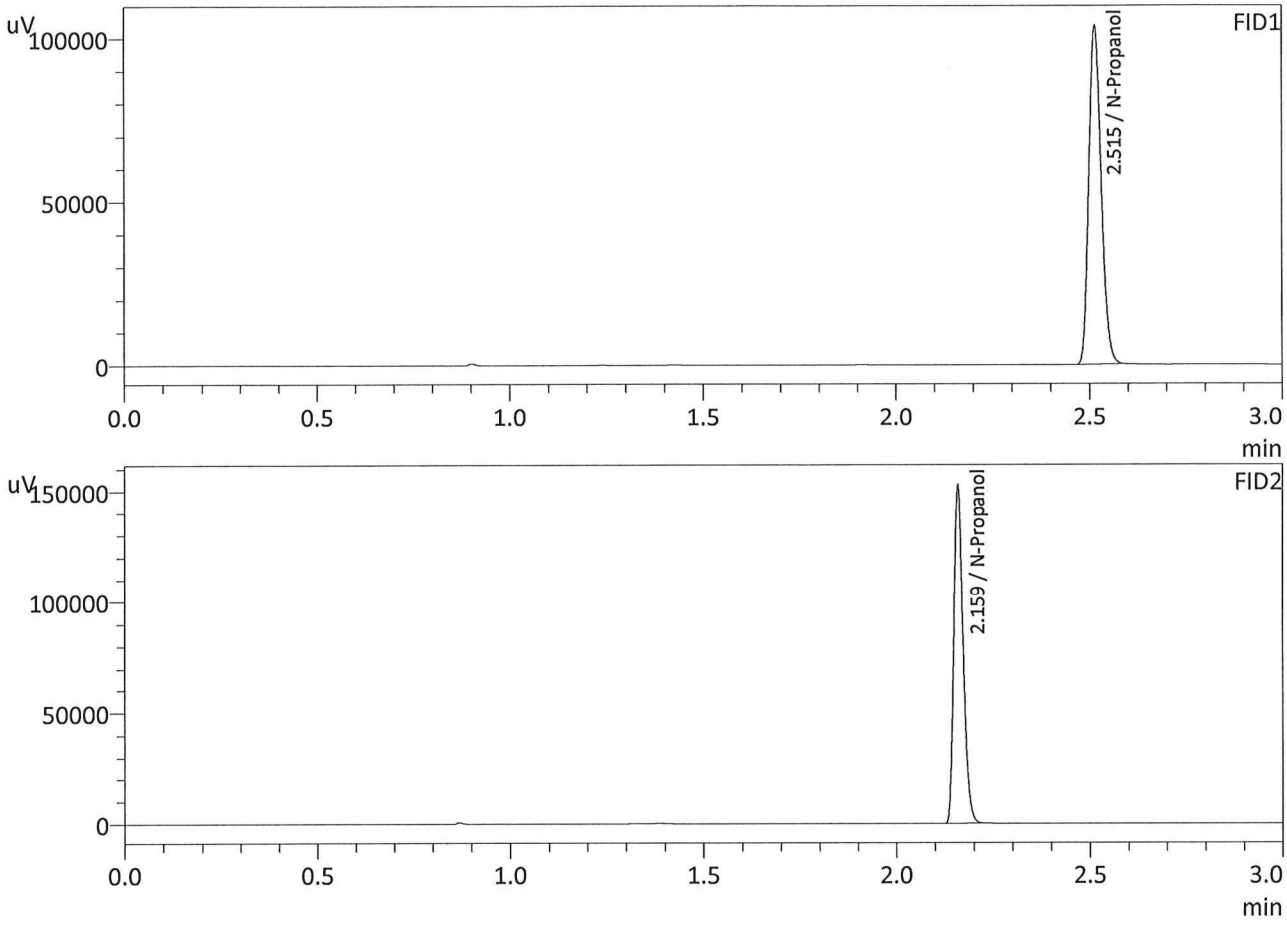
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2037	98100	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	238146	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2036	107161	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	260921	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JC

Sample Name : INT STD BLK
Laboratory : Meridian
Injection Date : 7/14/2023 9:07:39 PM
Vial # : 49
Method Filename : Default Project - ALCOHOL_230714.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	230288	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	252778	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

Ju

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	INT STD BLK 1	0:Unknown	0	ALCOHOL 230714.gcm
2	ED VOLATILES FN 0604	0:Unknown	1	ALCOHOL 230714.gcm
3	QC-1-1	0:Unknown	0	ALCOHOL 230714.gcm
4	QC-1-1-B	0:Unknown	0	ALCOHOL 230714.gcm
5	0.08 QA	0:Unknown	0	ALCOHOL 230714.gcm
6	0.08 QA	0:Unknown	0	ALCOHOL 230714.gcm
7	M2023-2842-1	0:Unknown	0	ALCOHOL 230714.gcm
8	M2023-2842-1-B	0:Unknown	0	ALCOHOL 230714.gcm
9	M2023-2860-1	0:Unknown	0	ALCOHOL 230714.gcm
10	M2023-2860-1-B	0:Unknown	0	ALCOHOL 230714.gcm
11	M2023-2865-1	0:Unknown	0	ALCOHOL 230714.gcm
12	M2023-2865-1-B	0:Unknown	0	ALCOHOL 230714.gcm
13	M2023-2869-1	0:Unknown	0	ALCOHOL 230714.gcm
14	M2023-2869-1-B	0:Unknown	0	ALCOHOL 230714.gcm
15	M2023-2879-2	0:Unknown	0	ALCOHOL 230714.gcm
16	M2023-2879-2-B	0:Unknown	0	ALCOHOL 230714.gcm
17	M2023-2883-1	0:Unknown	0	ALCOHOL 230714.gcm
18	M2023-2883-1-B	0:Unknown	0	ALCOHOL 230714.gcm
19	M2023-2884-1	0:Unknown	0	ALCOHOL 230714.gcm
20	M2023-2884-1-B	0:Unknown	0	ALCOHOL 230714.gcm
21	M2023-2886-1	0:Unknown	0	ALCOHOL 230714.gcm
22	M2023-2886-1-B	0:Unknown	0	ALCOHOL 230714.gcm
23	M2023-2887-1	0:Unknown	0	ALCOHOL 230714.gcm
24	M2023-2887-1-B	0:Unknown	0	ALCOHOL 230714.gcm
25	QC-2-1	0:Unknown	0	ALCOHOL 230714.gcm
26	QC-2-1-B	0:Unknown	0	ALCOHOL 230714.gcm
27	M2023-2888-1	0:Unknown	0	ALCOHOL 230714.gcm
28	M2023-2888-1-B	0:Unknown	0	ALCOHOL 230714.gcm
29	M2023-2895-1	0:Unknown	0	ALCOHOL 230714.gcm
30	M2023-2895-1-B	0:Unknown	0	ALCOHOL 230714.gcm
31	M2023-2917-1	0:Unknown	0	ALCOHOL 230714.gcm
32	M2023-2917-1-B	0:Unknown	0	ALCOHOL 230714.gcm
33	M2023-2918-1	0:Unknown	0	ALCOHOL 230714.gcm
34	M2023-2918-1-B	0:Unknown	0	ALCOHOL 230714.gcm
35	M2023-2928-1	0:Unknown	0	ALCOHOL 230714.gcm
36	M2023-2928-1-B	0:Unknown	0	ALCOHOL 230714.gcm
37	M2023-2929-1	0:Unknown	0	ALCOHOL 230714.gcm
38	M2023-2929-1-B	0:Unknown	0	ALCOHOL 230714.gcm
39	M2023-2971-1	0:Unknown	0	ALCOHOL 230714.gcm
40	M2023-2971-1-B	0:Unknown	0	ALCOHOL 230714.gcm
41	M2023-2972-1	0:Unknown	0	ALCOHOL 230714.gcm
42	M2023-2972-1-B	0:Unknown	0	ALCOHOL 230714.gcm
43	M2023-2973-1	0:Unknown	0	ALCOHOL 230714.gcm
44	M2023-2973-1-B	0:Unknown	0	ALCOHOL 230714.gcm
45	QC1-2	0:Unknown	0	ALCOHOL 230714.gcm
46	QC1-2-B	0:Unknown	0	ALCOHOL 230714.gcm
47	QC2-2	0:Unknown	0	ALCOHOL 230714.gcm
48	QC2-2-B	0:Unknown	0	ALCOHOL 230714.gcm
49	INT STD BLK	0:Unknown	0	ALCOHOL 230714.gcm