Quantitative Analysis for Ethanol & Qualitative Analysis for Other Volatiles

Analytical Method(s): 1.0

Device: Hamilton MICROLAB 600A Liquid Processor/Dilutor Serial Number: ML600HC11378

Volatiles Quality Assurance Controls **Run Date(s):7/10/19**

Calibration Date: 7/2/19

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Jan-22	1801036	0.0812	0.0731-0.0893	0.0796 g/100cc
					0.0830 g/100cc
					g/100cc
Level 2	Mar-22	1803028	0.2035	0.1832-0.2238	0.2030 g/100cc
					g/100cc
					g/100cc

Multi-Component mixture:	**Sep-20**	**Lot #**	FN06041502		ok
Curve Fit:		**Column 1**	1.00000	**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	0.0505	0.0524	0.0019	0.0514
100	0.100	0.090 - 0.110	0.1000	0.1002	0.0002	0.1001
200	0.200	0.180 - 0.220	0.1992	0.1972	0.002	0.1982
300	0.300	0.270 - 0.330	0.3000	0.2983	0.0017	0.2991
500	0.500	0.450 - 0.550	0.5003	0.5019	0.0016	0.5011

Aqueous Controls

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

REVIEWED
By Jeremy Johnston at 3:11 pm, Jul 16, 2019

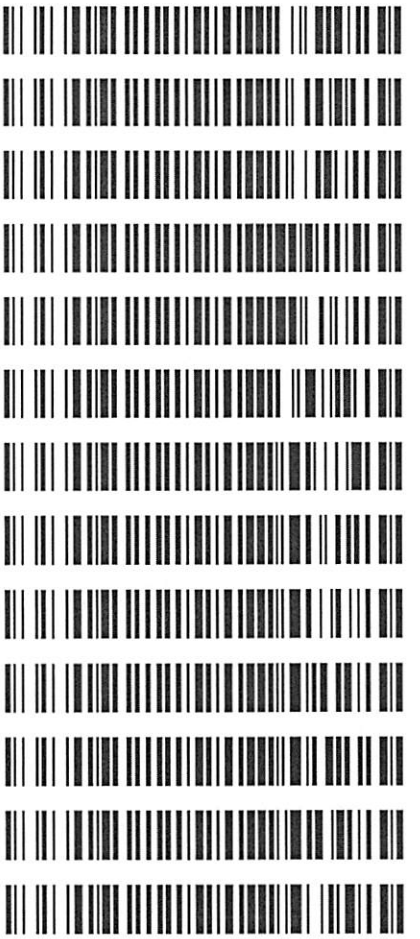
JG

Revision: 1
Issue Date: 01/03/2019
Issuing Authority: Quality Manager

7/15/2019

Worklist: 3546

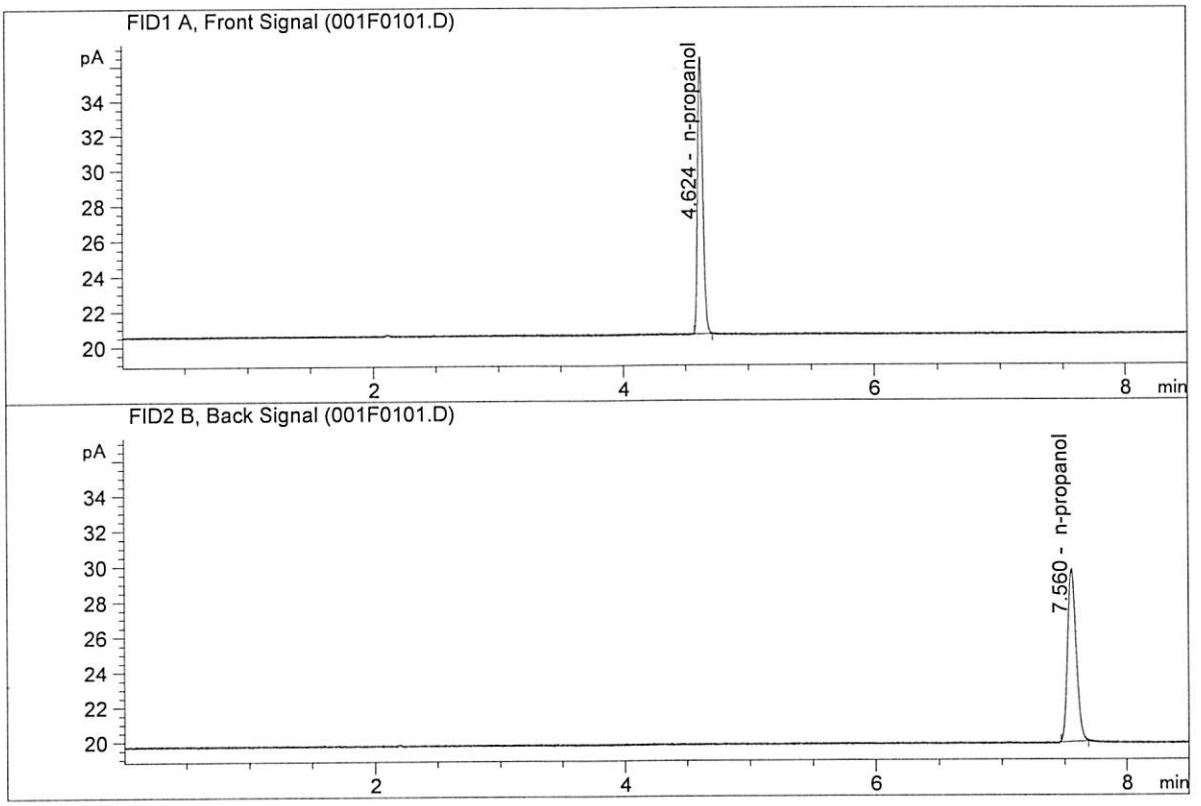
LAB_CASE	ITEM	TASK_ID	DESCRIPTION
M2019-3017	1	156323	Alcohol Analysis
M2019-3022	1	156366	Alcohol Analysis
M2019-3023	1	156386	Alcohol Analysis
M2019-3051	1	156434	Alcohol Analysis
M2019-3058	1	156467	Alcohol Analysis
M2019-3069	1	156556	Alcohol Analysis
M2019-3080	1	156681	Alcohol Analysis
M2019-3081	1	156682	Alcohol Analysis
M2019-3082	1	156686	Alcohol Analysis
M2019-3083	1	156687	Alcohol Analysis
M2019-3084	1	156688	Alcohol Analysis
M2019-3109	1	156743	Alcohol Analysis
M2019-3118	1	156756	Alcohol Analysis



JG

ISP Forensic Services Blood Alcohol Report

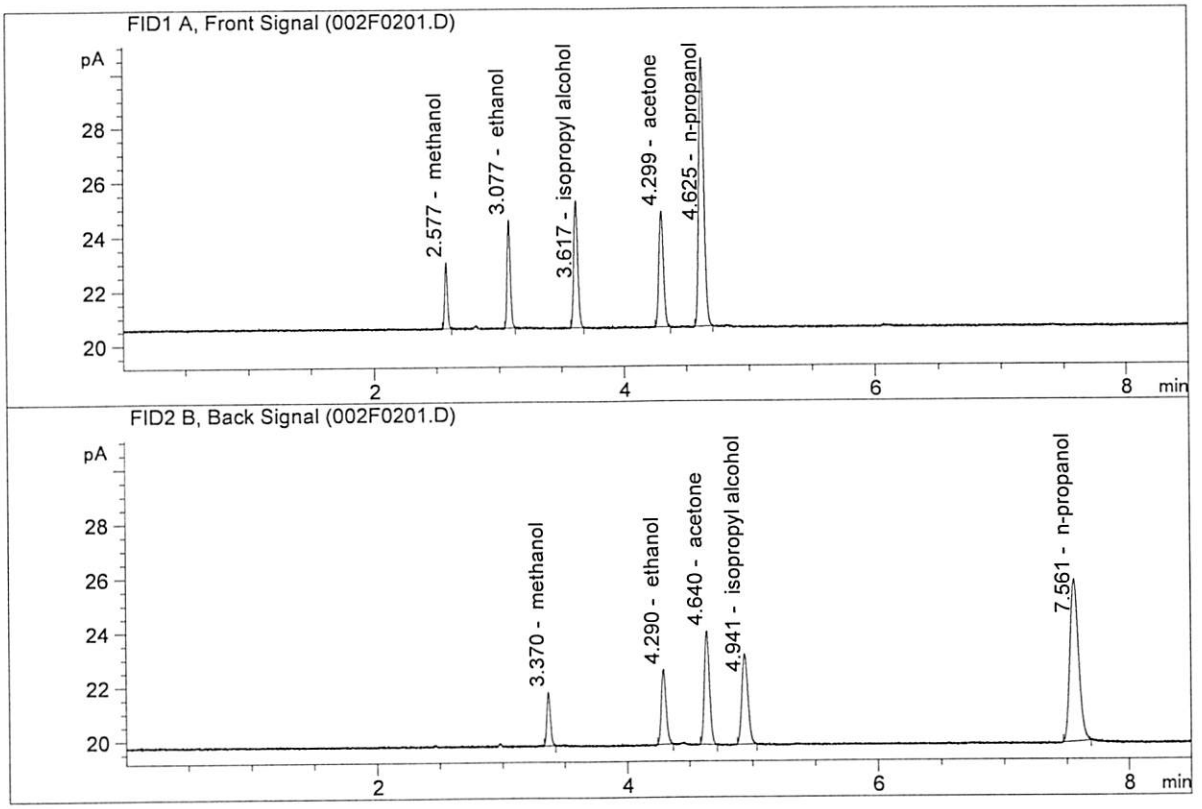
Sample Name : INTERNAL STD BLK 1
Laboratory : Meridian
Injection Date : Jul 10, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	45.08342	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.08366	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : MIX VOL FN06041502
Laboratory : Meridian
Injection Date : Jul 10, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.09078	0.1303	g/100cc
2.	Ethanol	Column 2:	7.35423	0.1319	g/100cc
3.	n-Propanol	Column 1:	28.05346	1.0000	g/100cc
4.	n-Propanol	Column 2:	28.64399	1.0000	g/100cc

JG

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-1 **Analysis Date(s): 10 Jul 2019**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0793	0.0799	0.0006	0.0796	0.0796	
(g/100cc)	0.0793	0.0799	0.0006	0.0796		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information *Instrument method is stored centrally.*

Refer to Instrument Method: Alcohol.m
Hamilton Auto-Dilutor Serial Number: ML600HC11378

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

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

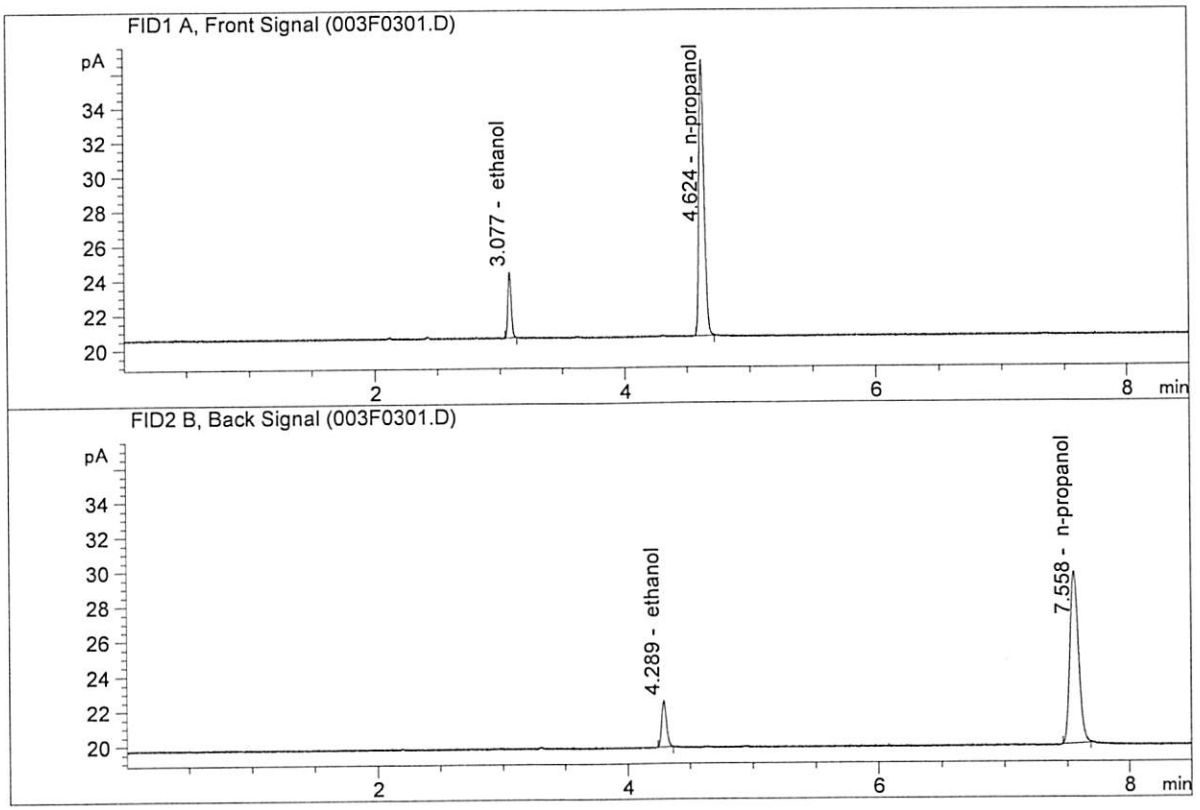
	Reported Result	
	0.079	

Calibration and control data are stored centrally.

Revision: 1
Issue Date: 01/04/2019
Issuing Authority: Quality Manager

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-1-A
Laboratory : Meridian
Injection Date : Jul 10, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

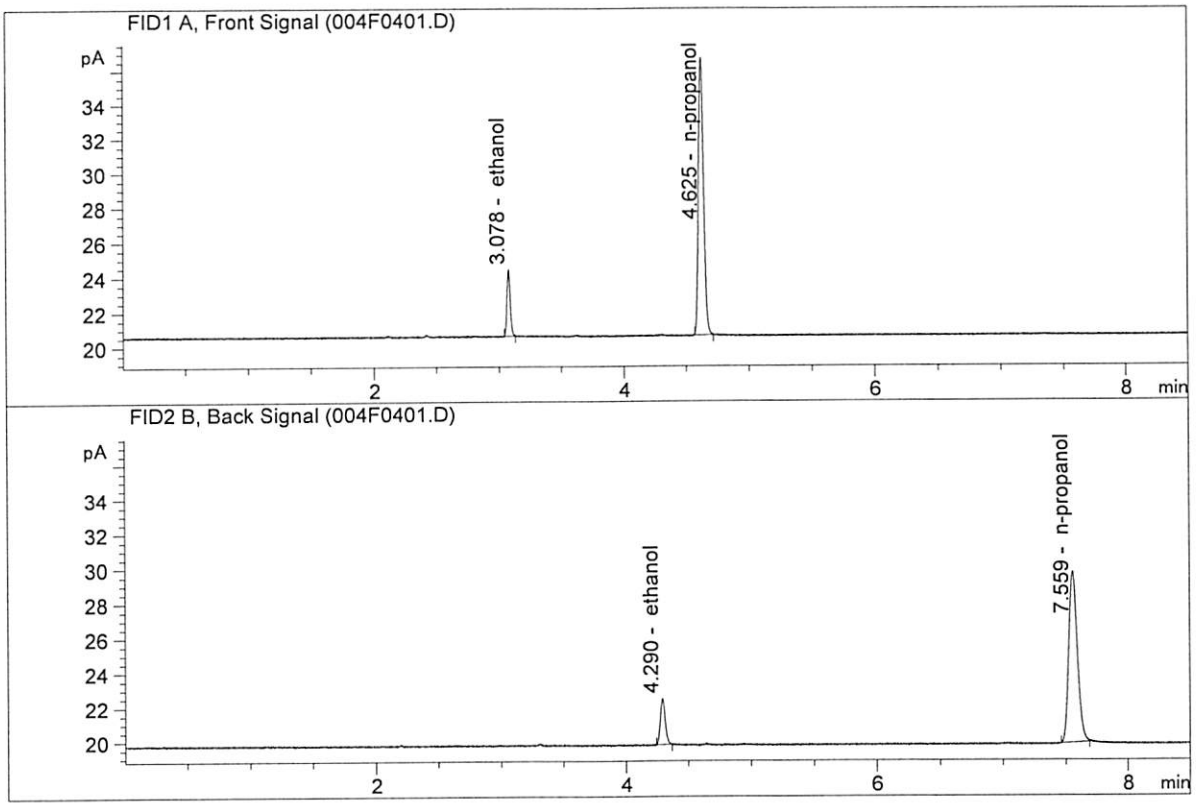


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.97854	0.0793	g/100cc
2.	Ethanol	Column 2:	7.12844	0.0799	g/100cc
3.	n-Propanol	Column 1:	45.67574	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.07642	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-1-B
Laboratory : Meridian
Injection Date : Jul 10, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.00088	0.0793	g/100cc
2.	Ethanol	Column 2:	7.15991	0.0799	g/100cc
3.	n-Propanol	Column 1:	45.80222	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.25390	1.0000	g/100cc

JL

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 0.08 FN04171701 **Analysis Date(s): 10 Jul 2019**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0802	0.0802	0.0000	0.0802	0.0805	
(g/100cc)	0.0806	0.0811	0.0005	0.0808		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information *Instrument method is stored centrally.*

Refer to Instrument Method: Alcohol.m
Hamilton Auto-Dilutor Serial Number: ML600HC11378

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

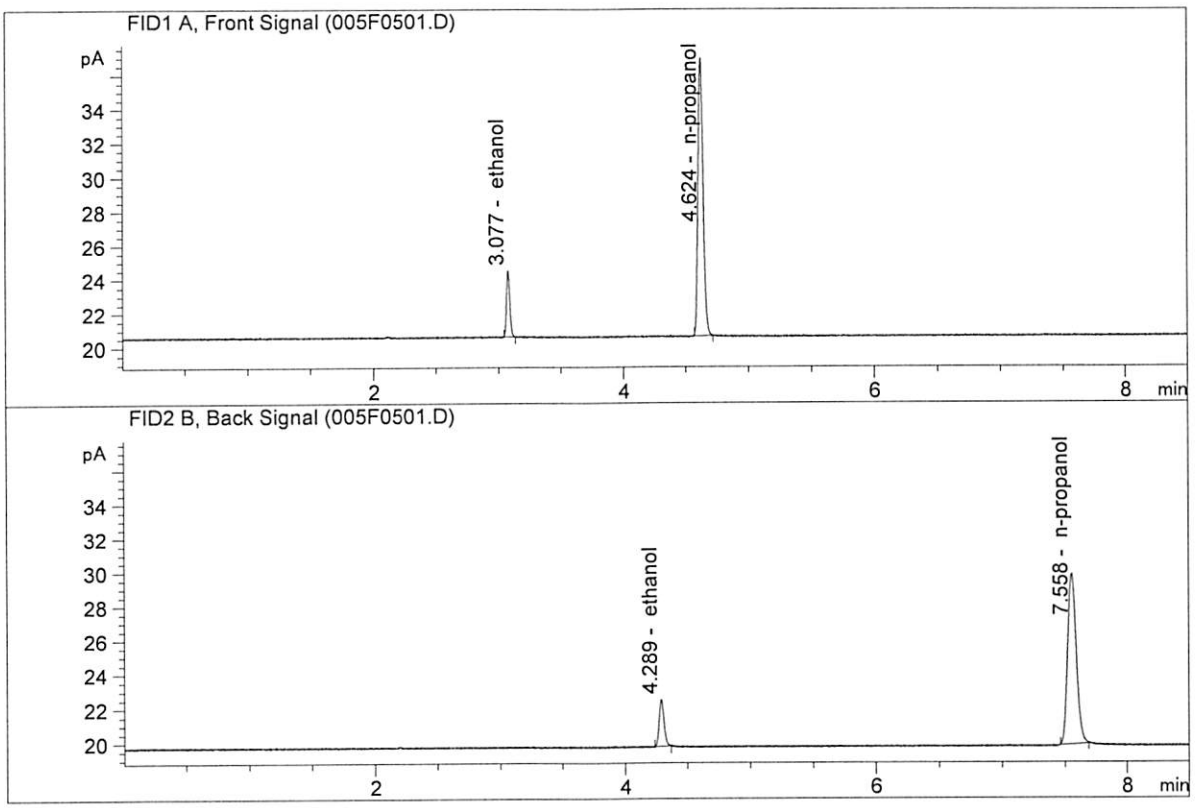
Overall Mean (g/100cc)	Low	High	5% of Mean
0.080	0.076	0.084	0.004

	Reported Result	
	0.080	

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN04171701-A
Laboratory : Meridian
Injection Date : Jul 10, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

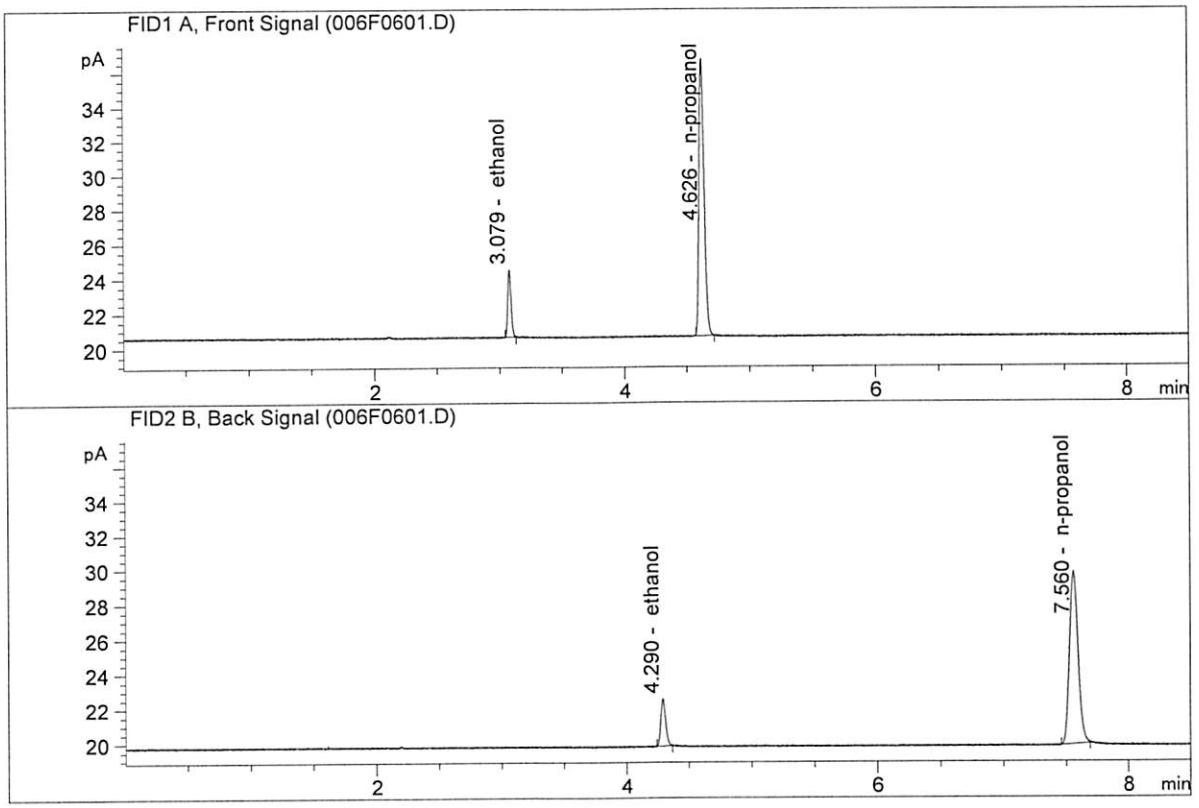


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.18593	0.0802	g/100cc
2.	Ethanol	Column 2:	7.28750	0.0802	g/100cc
3.	n-Propanol	Column 1:	46.49578	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.89118	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN04171701-B
Laboratory : Meridian
Injection Date : Jul 10, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.11454	0.0806	g/100cc
2.	Ethanol	Column 2:	7.25161	0.0811	g/100cc
3.	n-Propanol	Column 1:	45.81488	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.12738	1.0000	g/100cc

JG

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC2-1 **Analysis Date(s): 10 Jul 2019**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.2028	0.2030	0.0002	0.2029	0.2030	
(g/100cc)	0.2035	0.2030	0.0005	0.2032		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information *Instrument method is stored centrally.*

Refer to Instrument Method: Alcohol.m
Hamilton Auto-Dilutor Serial Number: ML600HC11378

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

Overall Mean (g/100cc)	Low	High	5% of Mean
0.203	0.192	0.214	0.011

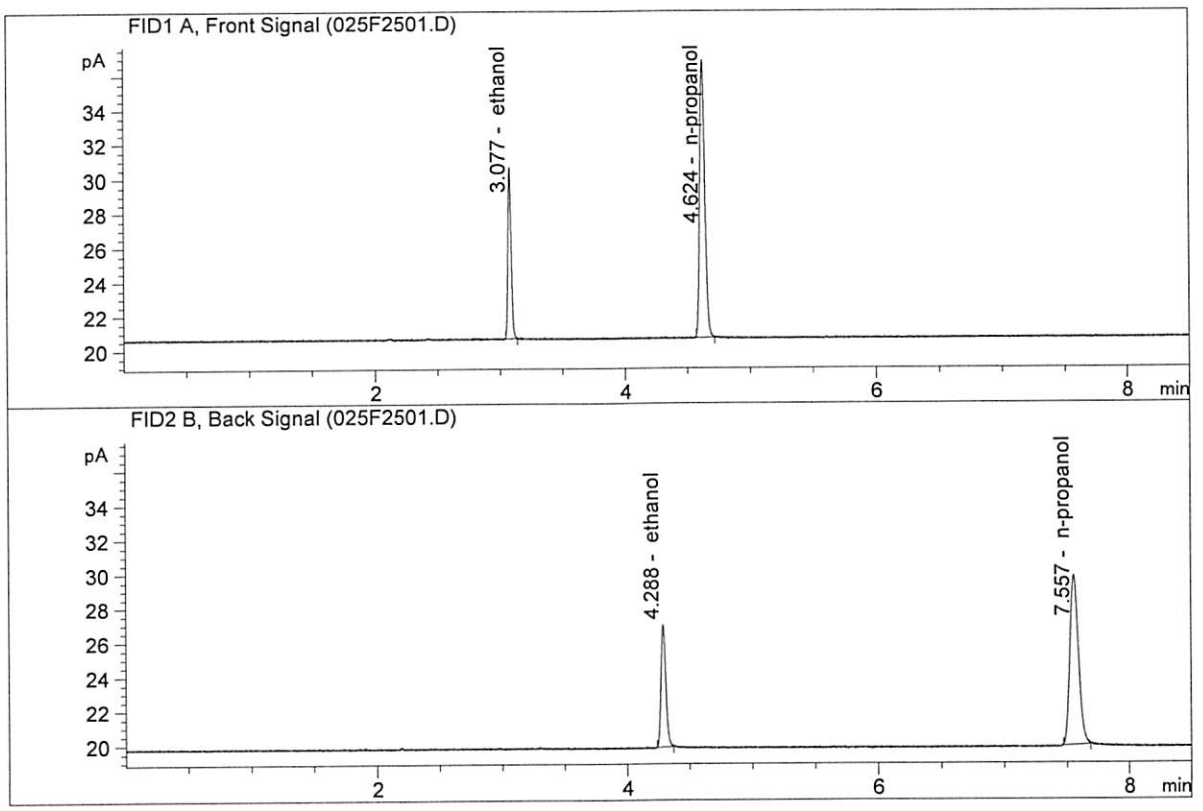
	Reported Result	
	0.203	

Calibration and control data are stored centrally.

JC

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-1-A
Laboratory : Meridian
Injection Date : Jul 10, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

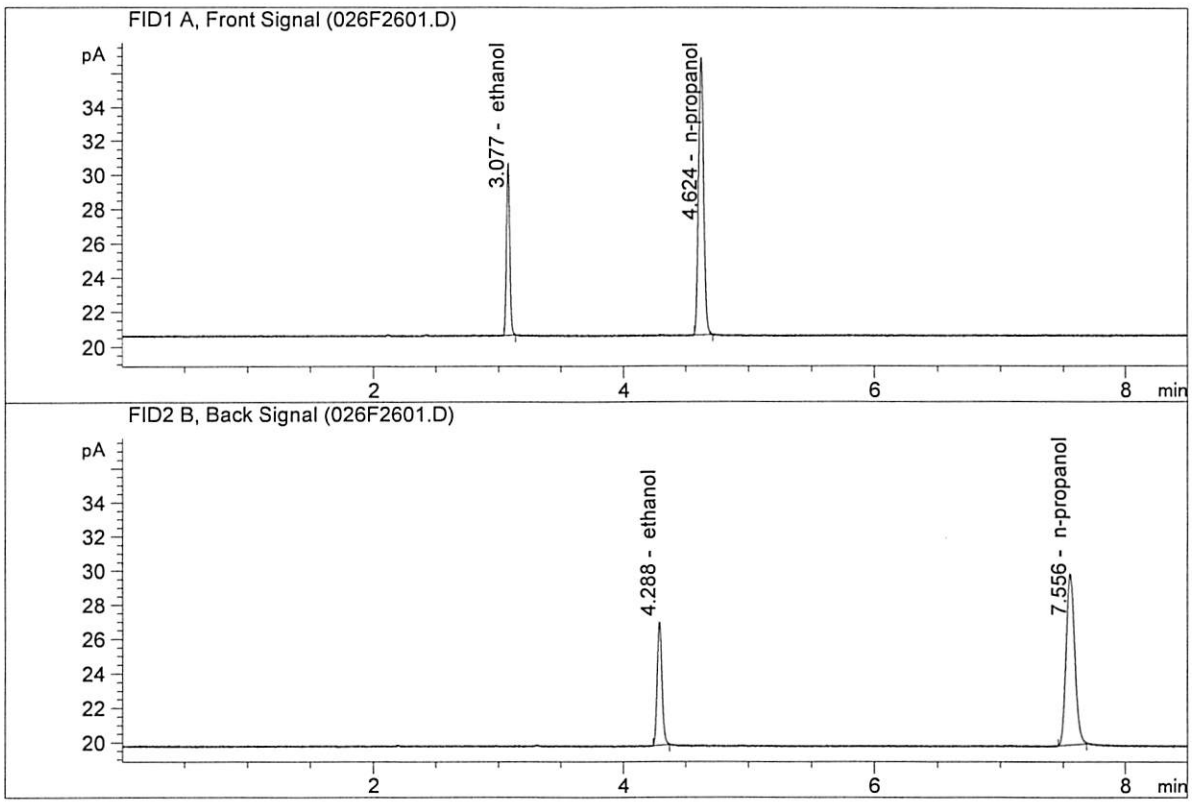


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.21442	0.2028	g/100cc
2.	Ethanol	Column 2:	18.94151	0.2030	g/100cc
3.	n-Propanol	Column 1:	46.10976	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.25198	1.0000	g/100cc

JL

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-1-B
Laboratory : Meridian
Injection Date : Jul 10, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.33060	0.2035	g/100cc
2.	Ethanol	Column 2:	19.05712	0.2030	g/100cc
3.	n-Propanol	Column 1:	46.24196	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.54595	1.0000	g/100cc

JC

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-2 **Analysis Date(s): 10 Jul 2019**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0828	0.0835	0.0007	0.0831	0.0830	
(g/100cc)	0.0825	0.0834	0.0009	0.0829		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information *Instrument method is stored centrally.*

Refer to Instrument Method: Alcohol.m
Hamilton Auto-Dilutor Serial Number: ML600HC11378

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

Overall Mean (g/100cc)	Low	High	5% of Mean
0.083	0.078	0.088	0.005

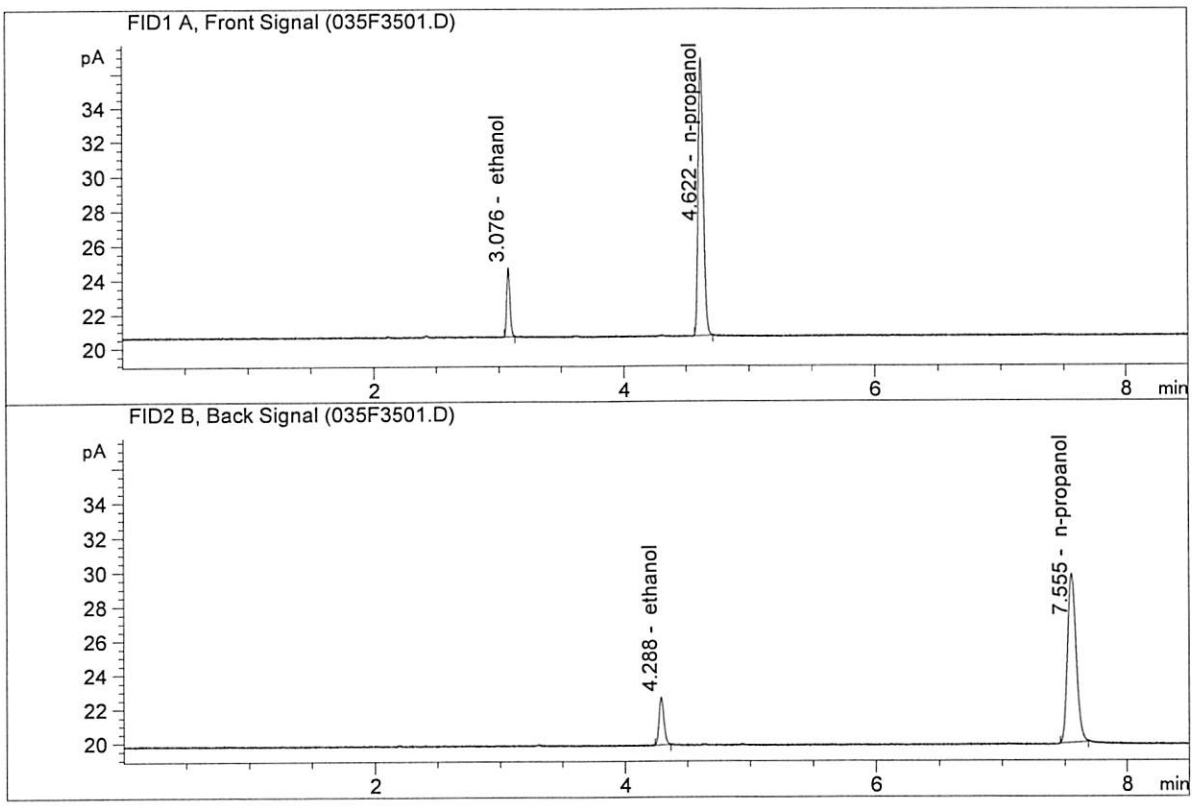
Reported Result
0.083

Calibration and control data are stored centrally.

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-2-A
Laboratory : Meridian
Injection Date : Jul 10, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.35732	0.0828	g/100cc
2.	Ethanol	Column 2:	7.52597	0.0835	g/100cc
3.	n-Propanol	Column 1:	46.09138	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.38089	1.0000	g/100cc

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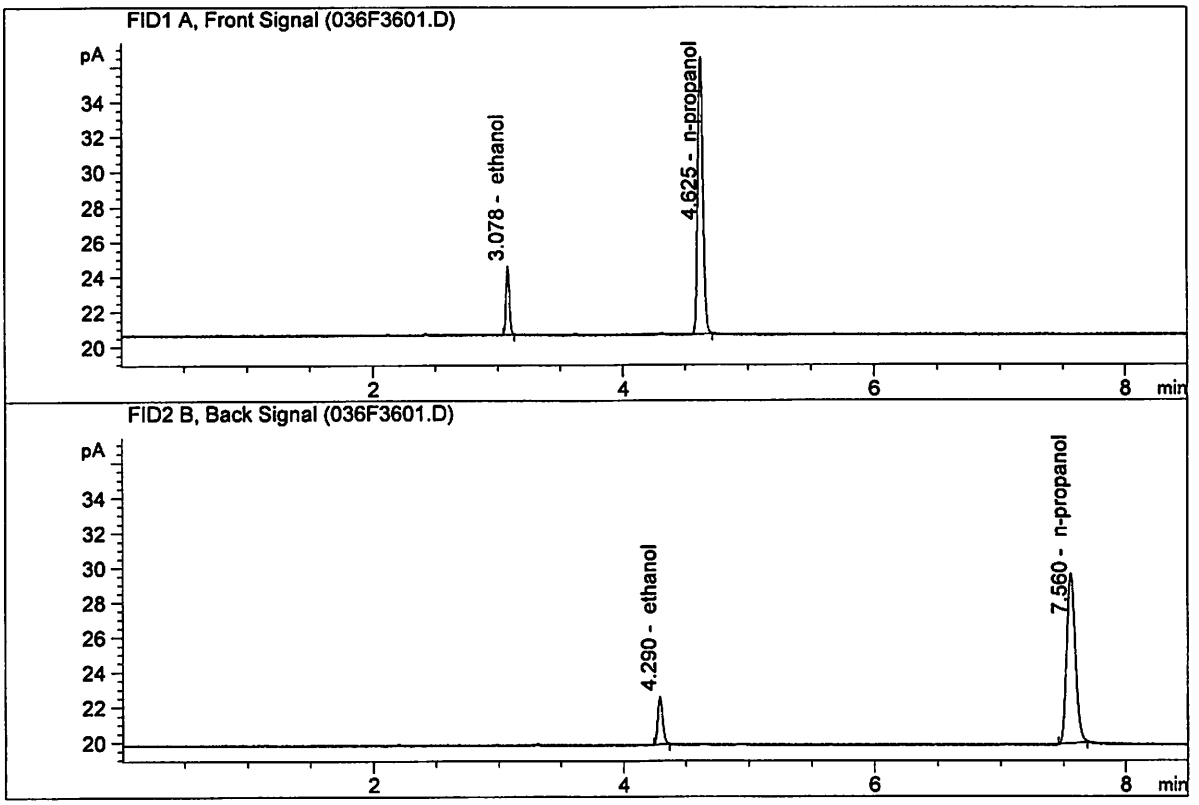
ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-2-B
Laboratory : Meridian
Injection Date : Jul 10, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

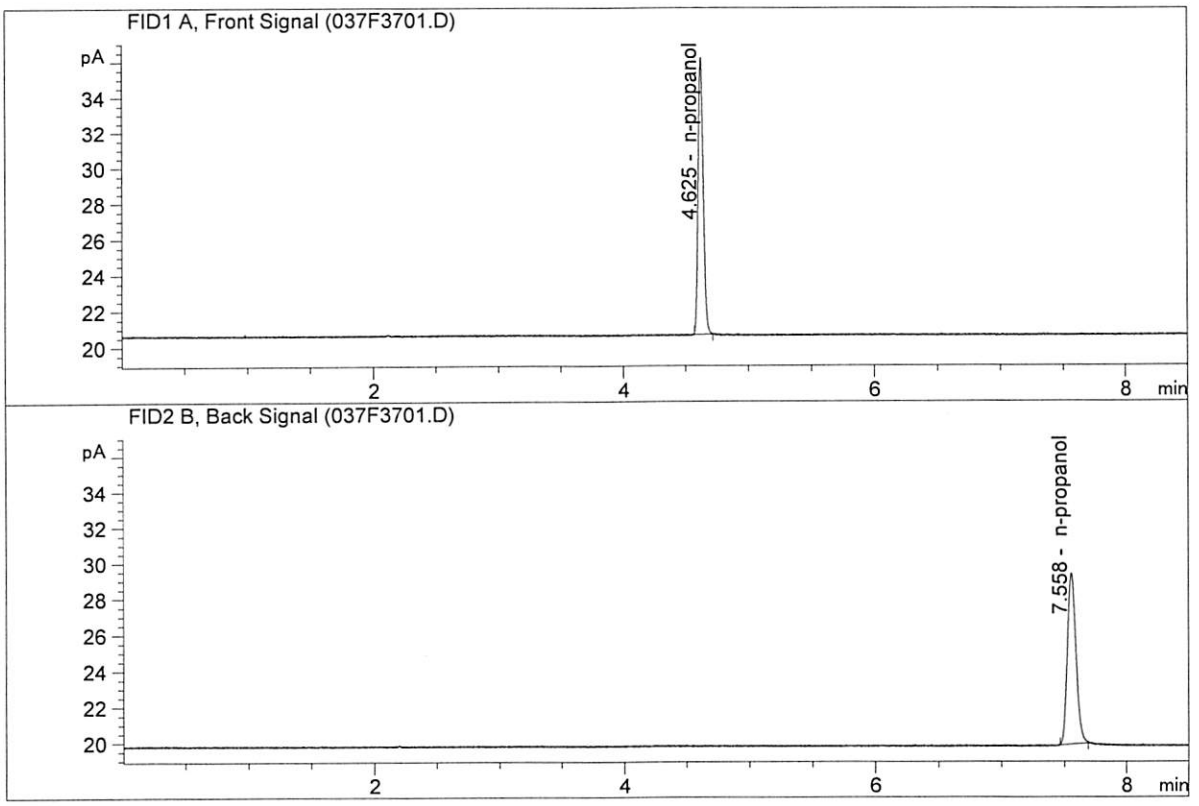


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.17321	0.0825	g/100cc
2.	Ethanol	Column 2:	7.33753	0.0834	g/100cc
3.	n-Propanol	Column 1:	45.09525	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.25826	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK
Laboratory : Meridian
Injection Date : Jul 10, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	44.18994	1.0000	g/100cc
4.	n-Propanol	Column 2:	45.35266	1.0000	g/100cc

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Sample Summary

Sequence table: C:\Chem32\1\Data\07-10-19_SAMPLES\07-10-19_SAMPLES 2019-07-10 14-00-40\07-10-19_SAMPLES.S
Data directory path: C:\Chem32\1\Data\07-10-19_SAMPLES\07-10-19_SAMPLES 2019-07-10 14-00-40\
Logbook: C:\Chem32\1\Data\07-10-19_SAMPLES\07-10-19_SAMPLES 2019-07-10 14-00-40\07-10-19_SAMPLES.LOG
Sequence start: 7/10/2019 2:15:27 PM
Sequence Operator: SYSTEM
Operator: SYSTEM

Method file name: C:\Chem32\1\Data\07-10-19_SAMPLES\07-10-19_SAMPLES 2019-07-10 14-00-40\ALCOHOL.M

Run #	Location	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal #	Cmp
1	1	1	INTERNAL STD BLK	-	1.0000	001F0101.D		2
2	2	1	MIX VOL FN060415	-	1.0000	002F0201.D		10
3	3	1	QC1-1-A	-	1.0000	003F0301.D		4
4	4	1	QC1-1-B	-	1.0000	004F0401.D		4
5	5	1	0.08 FN04171701-	-	1.0000	005F0501.D		4
6	6	1	0.08 FN04171701-	-	1.0000	006F0601.D		4
7	7	1	M2019-3017-1-A	-	1.0000	007F0701.D		4
8	8	1	M2019-3017-1-B	-	1.0000	008F0801.D		4
9	9	1	M2019-3022-1-A	-	1.0000	009F0901.D		4
10	10	1	M2019-3022-1-B	-	1.0000	010F1001.D		4
11	11	1	M2019-3023-1-A	-	1.0000	011F1101.D		2
12	12	1	M2019-3023-1-B	-	1.0000	012F1201.D		2
13	13	1	M2019-3051-1-A	-	1.0000	013F1301.D		4
14	14	1	M2019-3051-1-B	-	1.0000	014F1401.D		4
15	15	1	M2019-3058-1-A	-	1.0000	015F1501.D		2
16	16	1	M2019-3058-1-B	-	1.0000	016F1601.D		2
17	17	1	M2019-3069-1-A	-	1.0000	017F1701.D		4
18	18	1	M2019-3069-1-B	-	1.0000	018F1801.D		4
19	19	1	M2019-3080-1-A	-	1.0000	019F1901.D		4
20	20	1	M2019-3080-1-B	-	1.0000	020F2001.D		4
21	21	1	M2019-3081-1-A	-	1.0000	021F2101.D		2
22	22	1	M2019-3081-1-B	-	1.0000	022F2201.D		2
23	23	1	M2019-3082-1-A	-	1.0000	023F2301.D		4
24	24	1	M2019-3082-1-B	-	1.0000	024F2401.D		4
25	25	1	QC2-1-A	-	1.0000	025F2501.D		4
26	26	1	QC2-1-B	-	1.0000	026F2601.D		4
27	27	1	M2019-3083-1-A	-	1.0000	027F2701.D		4
28	28	1	M2019-3083-1-B	-	1.0000	028F2801.D		4
29	29	1	M2019-3084-1-A	-	1.0000	029F2901.D		4
30	30	1	M2019-3084-1-B	-	1.0000	030F3001.D		4
31	31	1	M2019-3109-1-A	-	1.0000	031F3101.D		4
32	32	1	M2019-3109-1-B	-	1.0000	032F3201.D		4
33	33	1	M2019-3118-1-A	-	1.0000	033F3301.D		4
34	34	1	M2019-3118-1-B	-	1.0000	034F3401.D		4
35	35	1	QC1-2-A	-	1.0000	035F3501.D		4
36	36	1	QC1-2-B	-	1.0000	036F3601.D		4
37	37	1	INTERNAL STD BLK	-	1.0000	037F3701.D		2

JG

Sequence File C:\Chem32\...9_SAMPLES\07-10-19_SAMPLES 2019-07-10 14-00-40\07-10-19_SAMPLES.S

Method file name: C:\Chem32\1\Data\07-10-19_SAMPLES\07-10-19_SAMPLES 2019-07-10 14-00-40 \SHUTDOWN.M

Run #	Location #	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal # Cmp
38	38	1	EMPTY	-	1.0000	038F3801.D	0

JG

Method C:\CHEM32\1\METHODS\ALCOHOL.M

Calibration Table

General Calibration Setting

Calib. Data Modified : Tuesday, July 02, 2019 4:08:55 PM
Signals calculated separately : No

Rel. Reference Window : 0.000 %
Abs. Reference Window : 0.100 min
Rel. Non-ref. Window : 0.000 %
Abs. Non-ref. Window : 0.100 min
Uncalibrated Peaks : not reported
Partial Calibration : Yes, identified peaks are recalibrated
Correct All Ret. Times: No, only for identified peaks

Curve Type : Linear
Origin : Ignored
Weight : Equal

Recalibration Settings:
Average Response : Average all calibrations
Average Retention Time: Floating Average New 75%

Calibration Report Options :
Printout of recalibrations within a sequence:
Calibration Table after Recalibration
Normal Report after Recalibration
If the sequence is done with bracketing:
Results of first cycle (ending previous bracket)

Default Sample ISTD Information (if not set in sample table):

ISTD #	ISTD Amount [g/100cc]	Name
1	1.00000	n-propanol
2	1.00000	n-propanol

Signal Details

Signal 1: FID1 A, Front Signal
Signal 2: FID2 B, Back Signal

Overview Table

JG

RT	Sig	Lvl	Amount [g/100cc]	Area	Rsp.Factor	Ref	ISTD	#	Compound
2.586	1	1	1.00000	3.69669	2.70512e-1	No	No	1	methanol
2.809	1	1	1.00000	4.26100	2.34687e-1	No	No	2	Acetaldehyde
2.977	2	1	1.00000	4.26100	2.34687e-1	No	No	2	Acetaldehyde
3.075	1	1	5.00000e-2	4.42648	1.12957e-2	No	No	1	ethanol
		2	1.00000e-1	8.88798	1.12512e-2				
		3	2.00000e-1	17.84929	1.12049e-2				
		4	3.00000e-1	26.60101	1.12778e-2				
		5	5.00000e-1	45.10629	1.10849e-2				
3.388	2	1	1.00000	4.26062	2.34707e-1	No	No	2	methanol
3.628	1	1	1.00000	9.73055	1.02769e-1	No	No	1	isopropyl alcohol
4.285	2	1	5.00000e-2	4.61899	1.08249e-2	No	No	2	ethanol
		2	1.00000e-1	9.21829	1.08480e-2				
		3	2.00000e-1	18.62832	1.07363e-2				
		4	3.00000e-1	27.95925	1.07299e-2				
		5	5.00000e-1	47.84081	1.04513e-2				
4.308	1	1	1.00000	6.49940	1.53860e-1	No	No	1	acetone
4.620	1	1	1.00000	45.96296	2.17566e-2	No	Yes	1	n-propanol
		2	1.00000	45.94650	2.17644e-2				
		3	1.00000	46.01707	2.17311e-2				
		4	1.00000	45.42292	2.20153e-2				
		5	1.00000	46.10006	2.16919e-2				
4.661	2	1	1.00000	6.89301	1.45075e-1	No	No	2	acetone
4.969	2	1	1.00000	10.70642	9.34019e-2	No	No	2	isopropyl alcohol
7.550	2	1	1.00000	48.17994	2.07555e-2	No	Yes	2	n-propanol
		2	1.00000	47.85523	2.08964e-2				
		3	1.00000	47.86760	2.08910e-2				
		4	1.00000	47.08141	2.12398e-2				
		5	1.00000	47.54148	2.10343e-2				

Peak Sum Table

No Entries in table

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1 Warnings or Errors :

Warning : Curve requires more calibration points., (methanol)

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Calibration Curves

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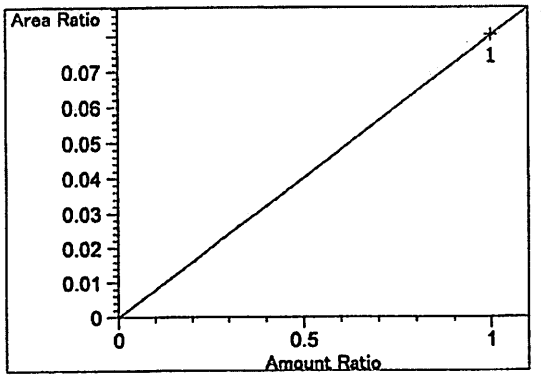
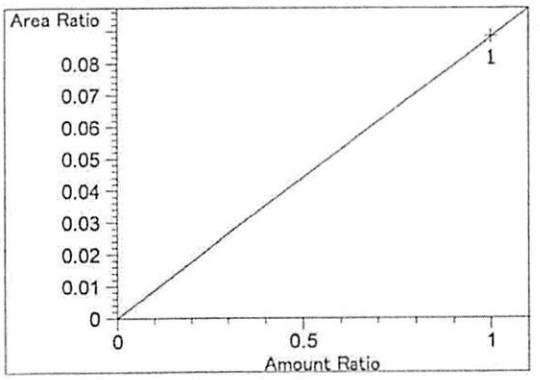
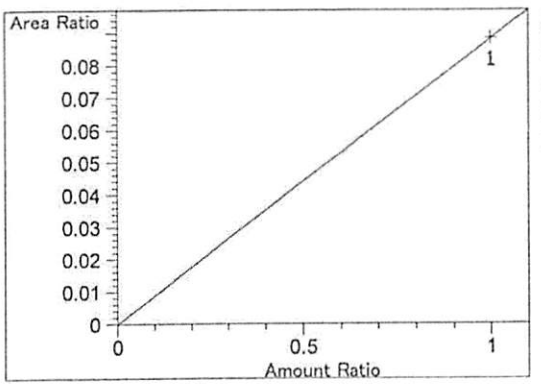


methanol at exp. RT: 2.586
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 8.04277e-2
b: 0.00000
x: Amount Ratio
y: Area Ratio

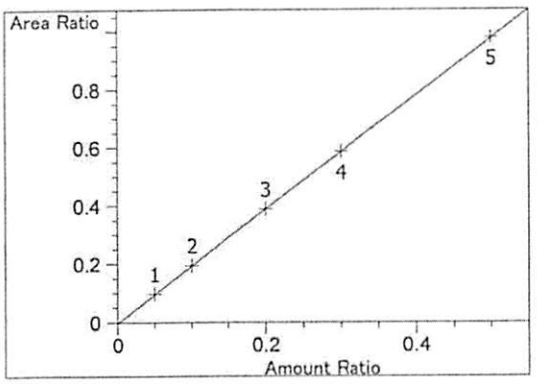
Method C:\CHEM32\1\METHODS\ALCOHOL.M



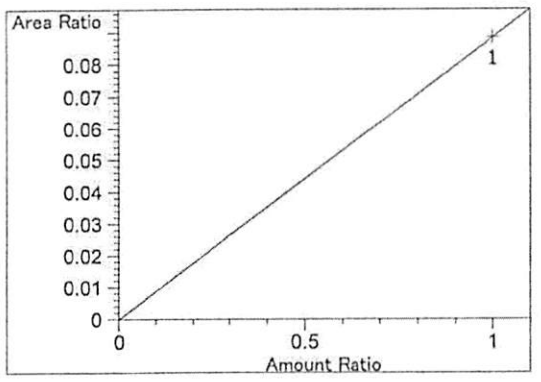
Acetaldehyde at exp. RT: 2.809
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 8.84393e-2
b: 0.00000
x: Amount Ratio
y: Area Ratio



Acetaldehyde at exp. RT: 2.977
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 8.84393e-2
b: 0.00000
x: Amount Ratio
y: Area Ratio

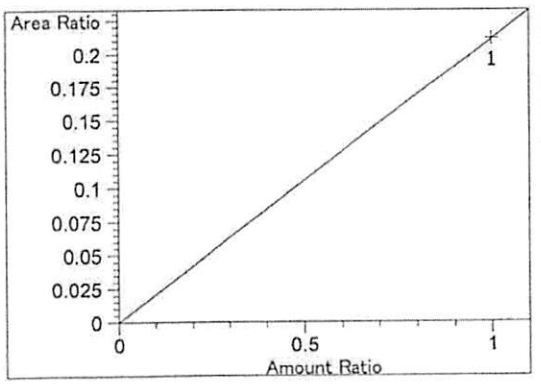


ethanol at exp. RT: 3.075
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00114
Formula: y = mx + b
m: 1.96137
b: -2.77326e-3
x: Amount Ratio
y: Area Ratio

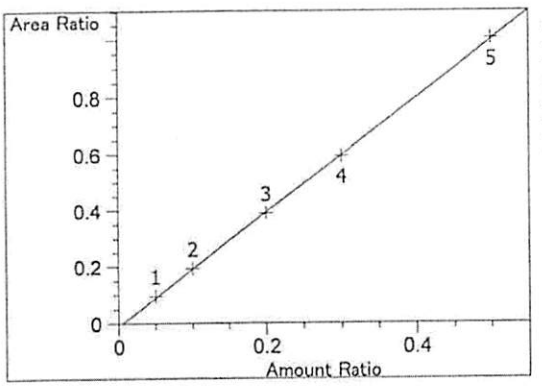


methanol at exp. RT: 3.388
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 8.84315e-2
b: 0.00000
x: Amount Ratio
y: Area Ratio

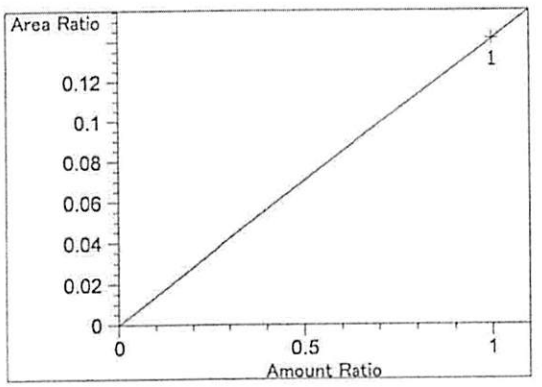
16



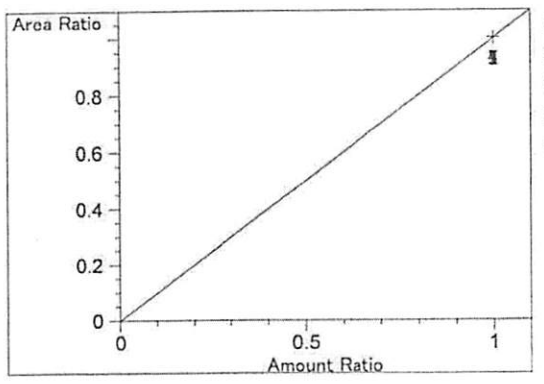
isopropyl alcohol at exp. RT: 3.628
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 2.11704e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio



ethanol at exp. RT: 4.285
FID2 B, Back Signal
Correlation: 0.99992
Residual Std. Dev.: 0.00526
Formula: y = mx + b
m: 2.02575
b: -1.03615e-2
x: Amount Ratio
y: Area Ratio

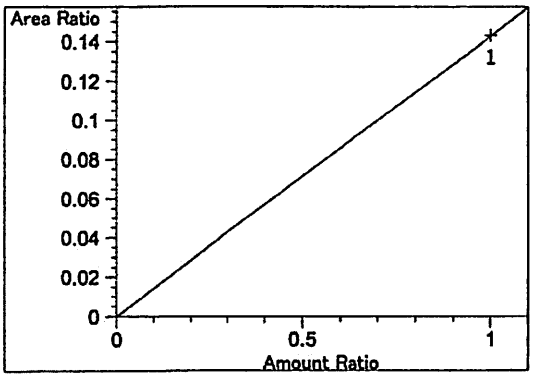


acetone at exp. RT: 4.308
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.41405e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio

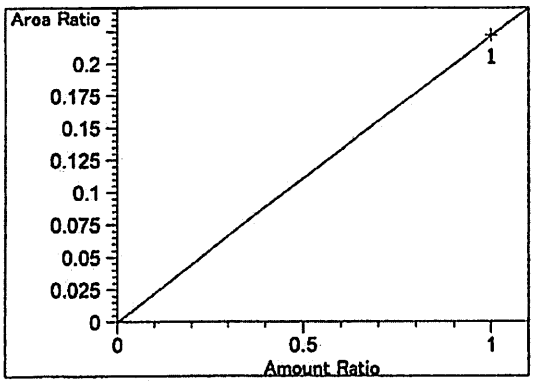


n-propanol at exp. RT: 4.620
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.00000
b: 0.00000
x: Amount Ratio
y: Area Ratio

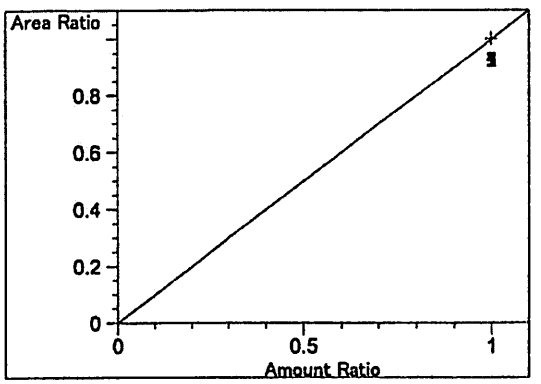
JG



acetone at exp. RT: 4.661
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.43068e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio



isopropyl alcohol at exp. RT: 4.969
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 2.22217e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio



n-propanol at exp. RT: 7.550
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.00000
b: 0.00000
x: Amount Ratio
y: Area Ratio

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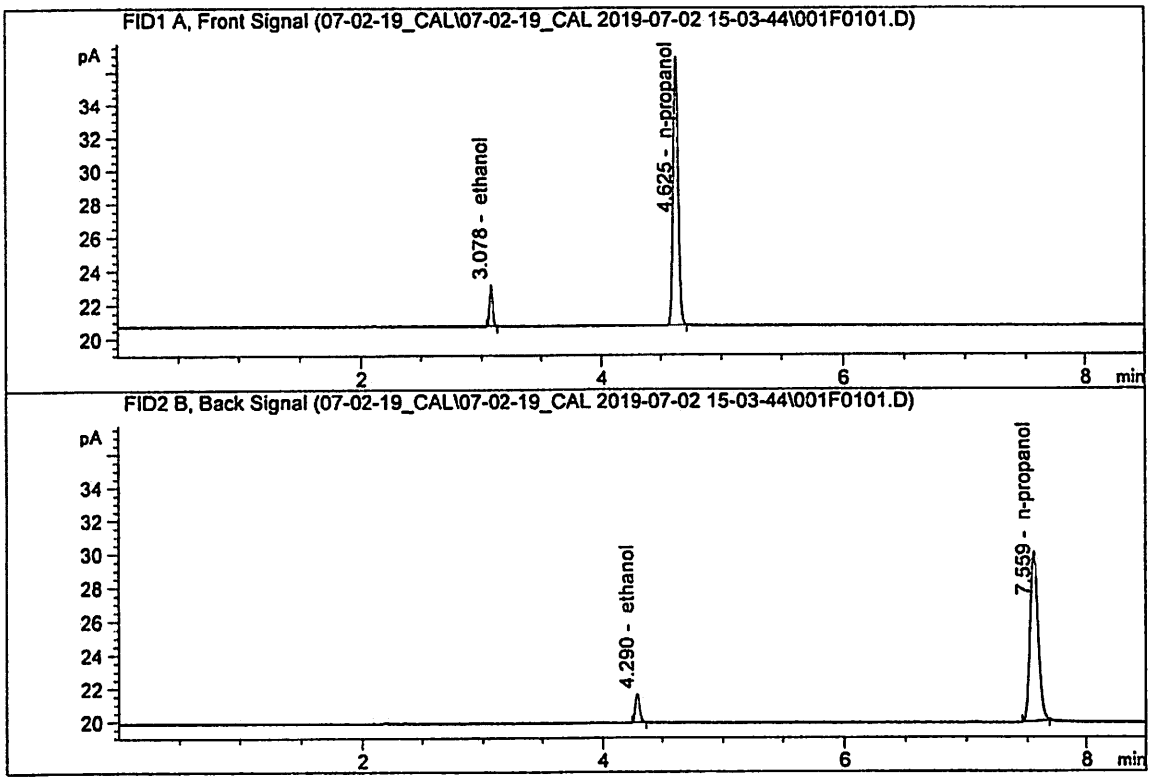
JG

ISP Forensic Services Blood Alcohol Report

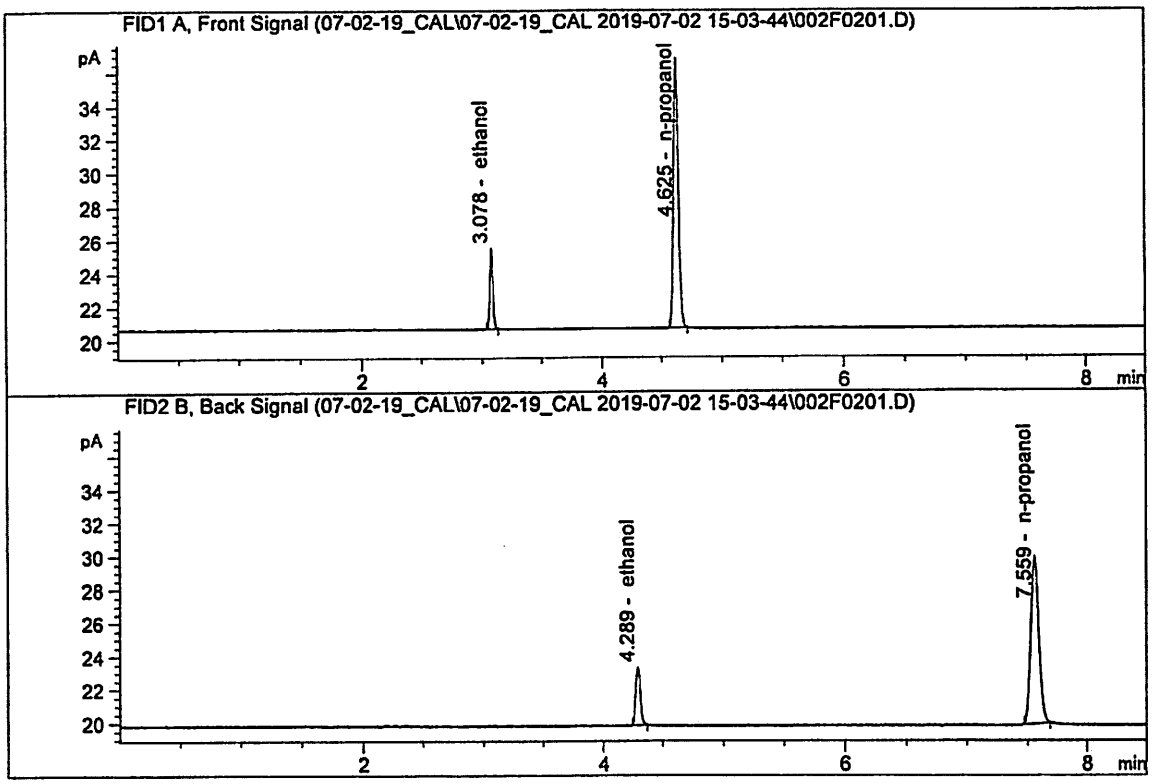
Sample Name : 0.050 FN04271601
Laboratory : Meridian
Injection Date : Jul 2, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	4.42648	0.0505	g/100cc
2.	Ethanol	Column 2:	4.61899	0.0524	g/100cc
3.	n-Propanol	Column 1:	45.96296	1.0000	g/100cc
4.	n-Propanol	Column 2:	48.17994	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.100 FN08101601
Laboratory : Meridian
Injection Date : Jul 2, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

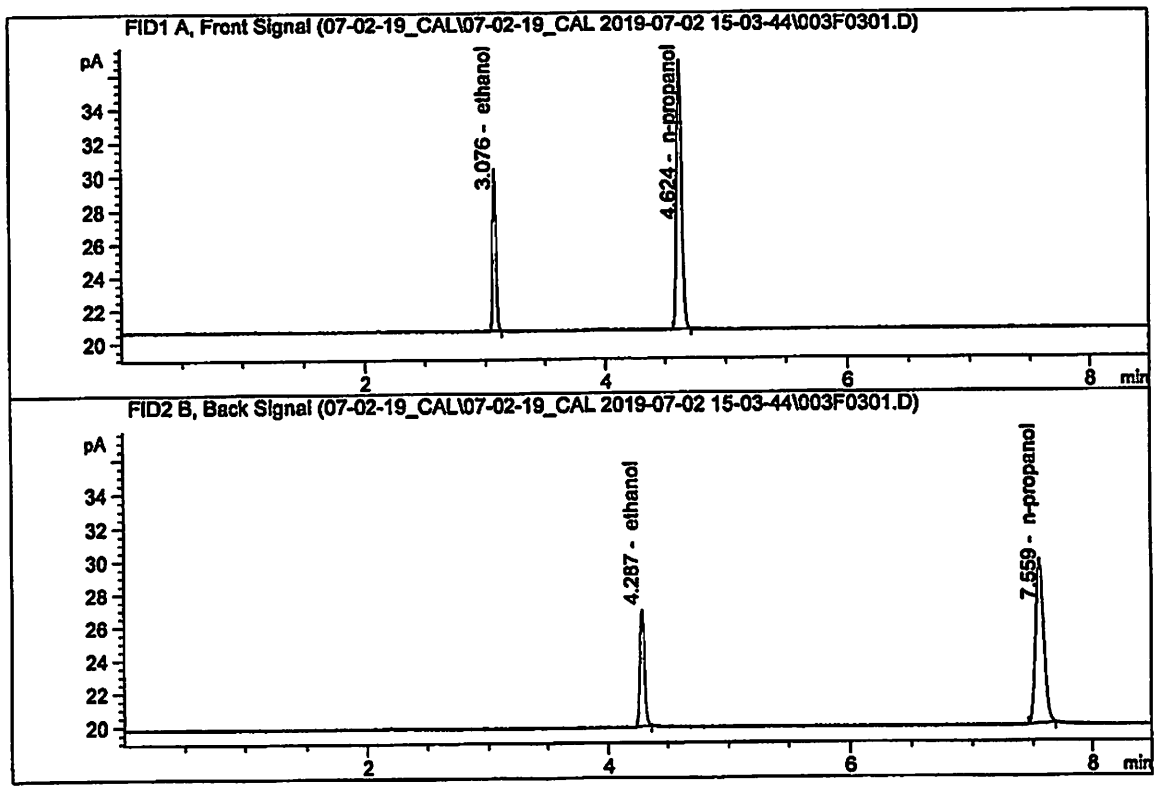


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	8.88798	0.1000	g/100cc
2.	Ethanol	Column 2:	9.21829	0.1002	g/100cc
3.	n-Propanol	Column 1:	45.94650	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.85523	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

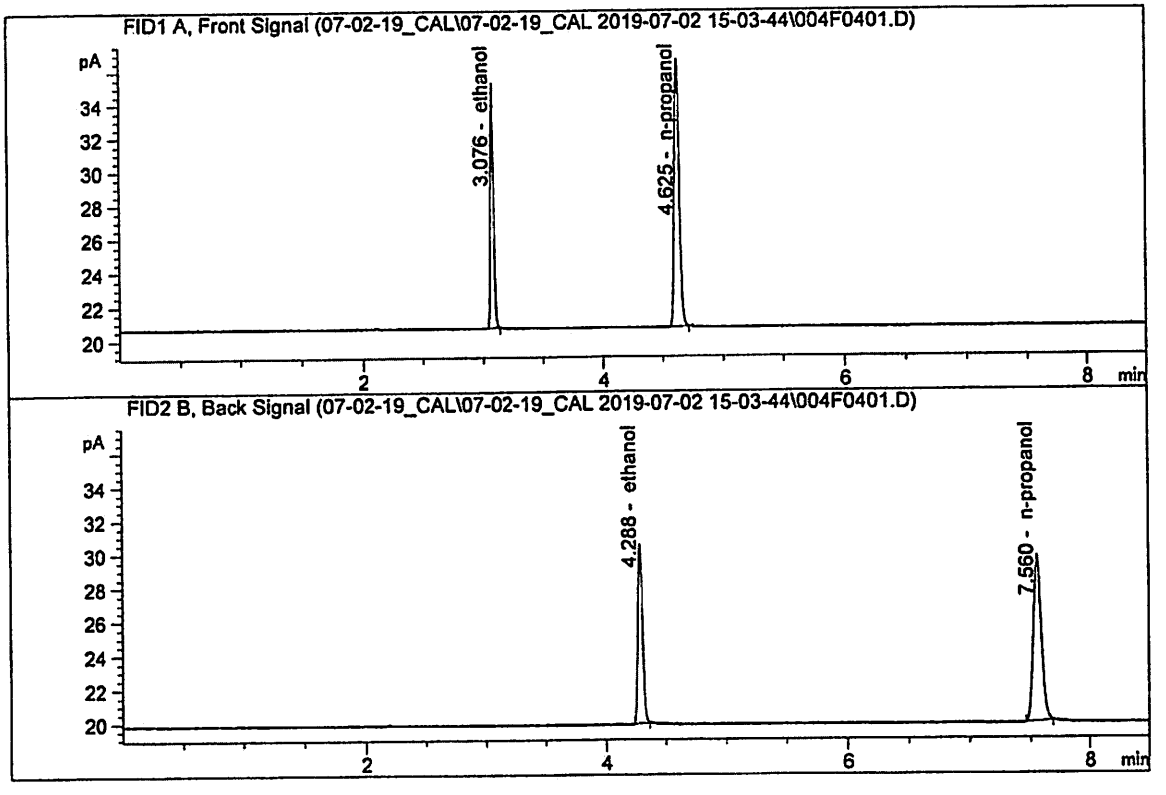
Sample Name : 0.200 FN03301601
Laboratory : Meridian
Injection Date : Jul 2, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	17.84929	0.1992	g/100cc
2.	Ethanol	Column 2:	18.62832	0.1972	g/100cc
3.	n-Propanol	Column 1:	46.01707	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.86760	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.300 ~~FN08181601~~ FN07311804 JG
Laboratory : Meridian
Injection Date : Jul 2, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

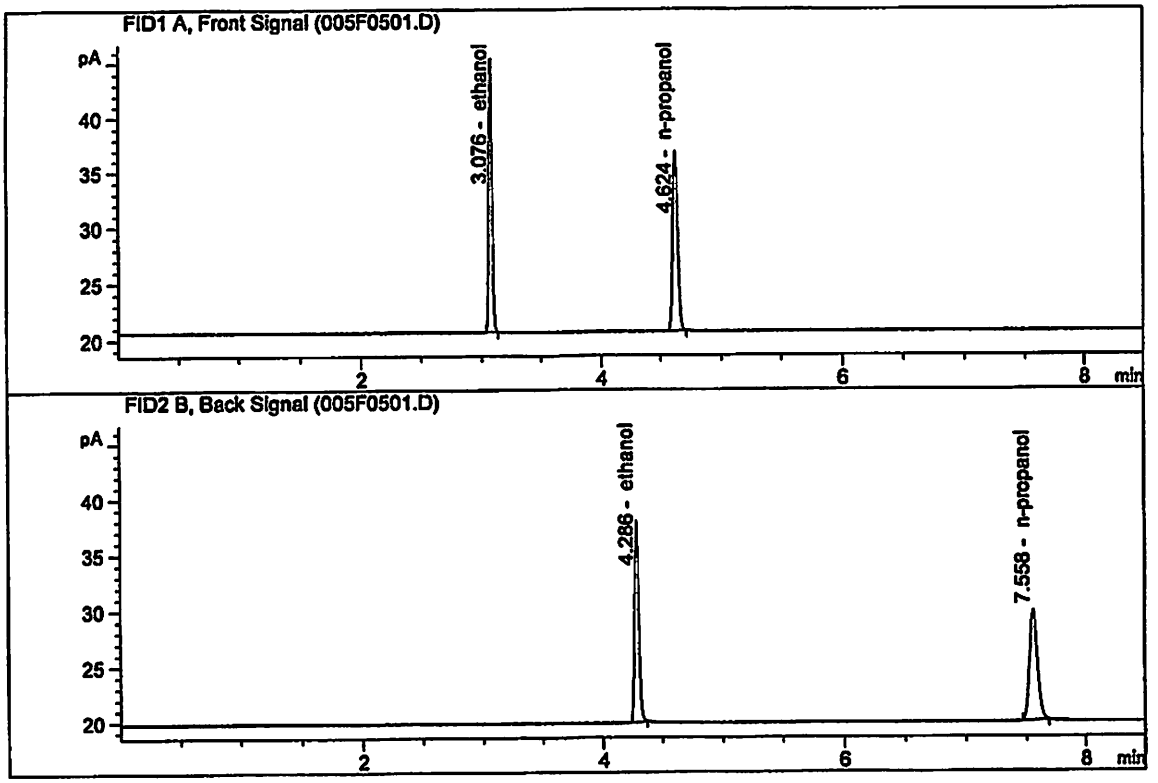


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	26.60101	0.3000	g/100cc
2.	Ethanol	Column 2:	27.95925	0.2983	g/100cc
3.	n-Propanol	Column 1:	45.42292	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.08141	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

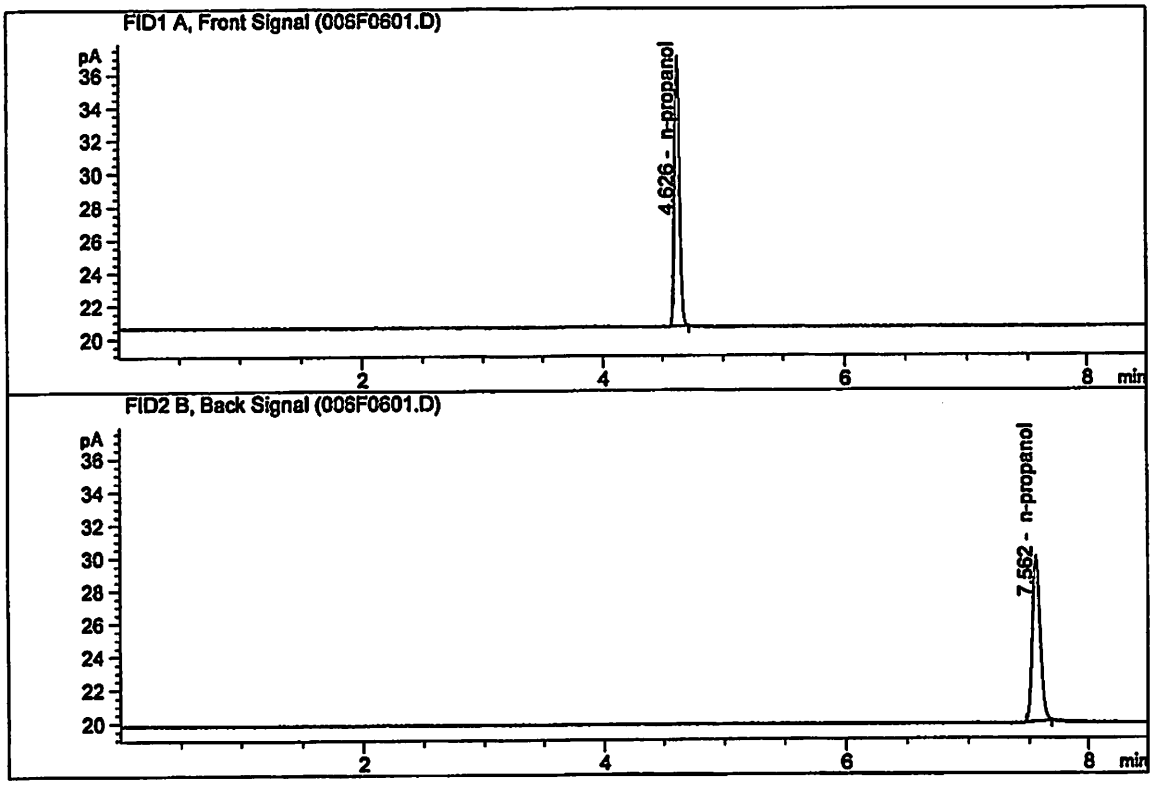
Sample Name	:	0.500 FN08031602
Laboratory	:	Meridian
Injection Date	:	Jul 2, 2019
Method	:	ALCOHOL.M
Acq. Instrument	:	CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	45.10629	0.5003	g/100cc
2.	Ethanol	Column 2:	47.84081	0.5019	g/100cc
3.	n-Propanol	Column 1:	46.10006	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.54148	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STANDARD BLANK
Laboratory : Meridian
Injection Date : Jul 2, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	46.61699	1.0000	g/100cc
4.	n-Propanol	Column 2:	48.25599	1.0000	g/100cc

JC