Quantitative Analysis for Ethanol & Qualitative Analysis for Other Volatiles

Analytical Method(s): 1.0

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

Volatiles Quality Assurance Controls **Run Date(s): 01/10/2019**

Calibration Date: 12/28/2018

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Jan-22	1801036	0.0812	0.0731-0.0893	0.0764 g/100cc
					g/100cc
					g/100cc
Level 2	Mar-22	1803028	0.2035	0.1832-0.2238	0.1980 g/100cc
					0.1985 g/100cc
					g/100cc

Multi-Component mixture:	Exp Date: Sept. 2020	Lot #	FN06041502	
Curve Fit:	Column 1	1.00000	Column2	0.99998

Ethanol Calibration Reference Material

Calibrator level	Target Value	Acceptable Range	Column 1	Column 2	Precision	Mean
50	0.050	0.045 - 0.055	0.0503	0.0517	0.0014	0.051
100	0.100	0.090 - 0.110	0.0999	0.0994	0.0005	0.0996
200	0.200	0.180 - 0.220	0.1997	0.1985	0.0012	0.1991
300	0.300	0.270 - 0.330	0.3001	0.2998	0.0003	0.2999
500	0.500	0.450 - 0.550	0.5001	0.5007	0.0006	0.5004

Aqueous Controls

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

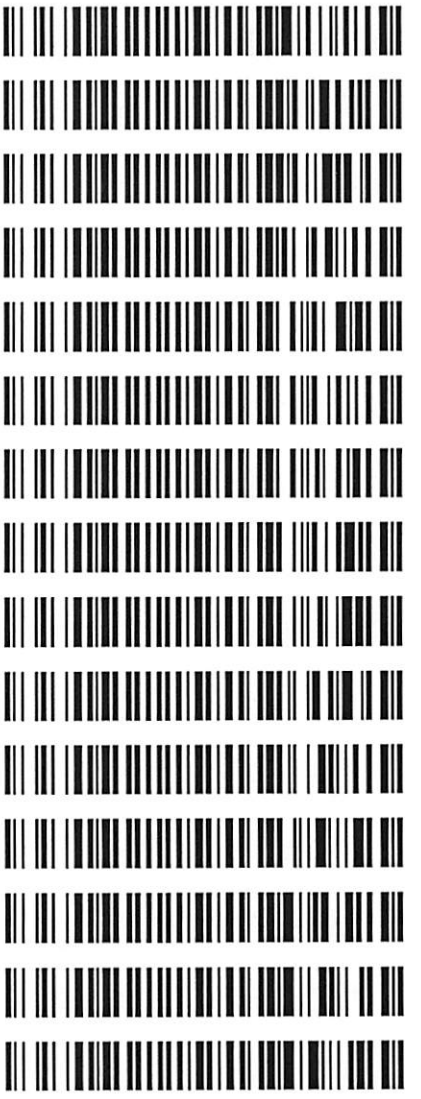
REVIEWED
By Rachel Cutler at 10:28 am, Jan 15, 2019

JC

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

Worklist: 2877

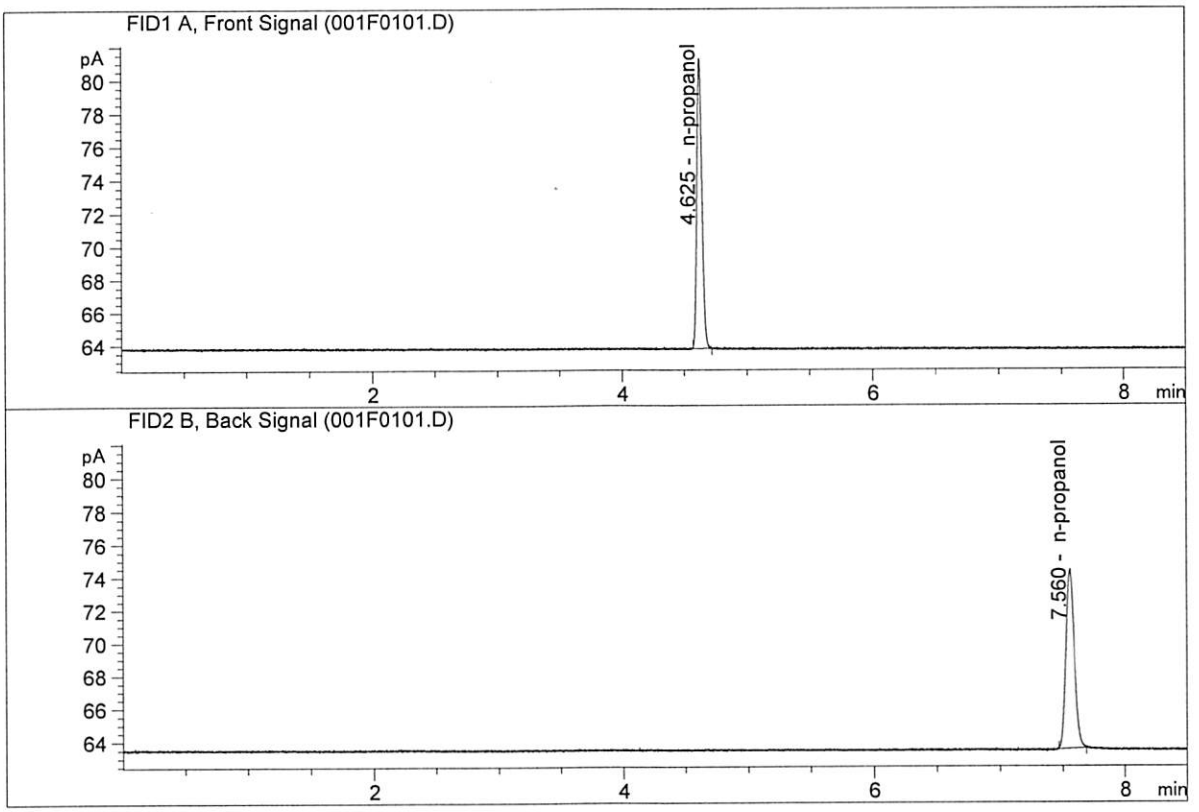
LAB_CASE	ITEM	TASK_ID	DESCRIPTION
M2018-4457	3	136542	Alcohol Analysis
M2018-6226	1	137051	Alcohol Analysis
M2018-6227	1	137052	Alcohol Analysis
M2018-6363	1	135636	Alcohol Analysis
M2019-0016	1	135923	Alcohol Analysis
M2019-0017	1	135924	Alcohol Analysis
M2019-0018	1	135925	Alcohol Analysis
M2019-0027	1	135963	Alcohol Analysis
M2019-0028	1	135965	Alcohol Analysis
M2019-0063	1	136058	Alcohol Analysis
M2019-0064	1	136062	Alcohol Analysis
M2019-0092	1	136267	Alcohol Analysis
M2019-0148	1	136543	Alcohol Analysis
M2019-0149	1	136547	Alcohol Analysis
M2019-0176	1	136587	Alcohol Analysis



JG

ISP Forensic Services Blood Alcohol Report

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

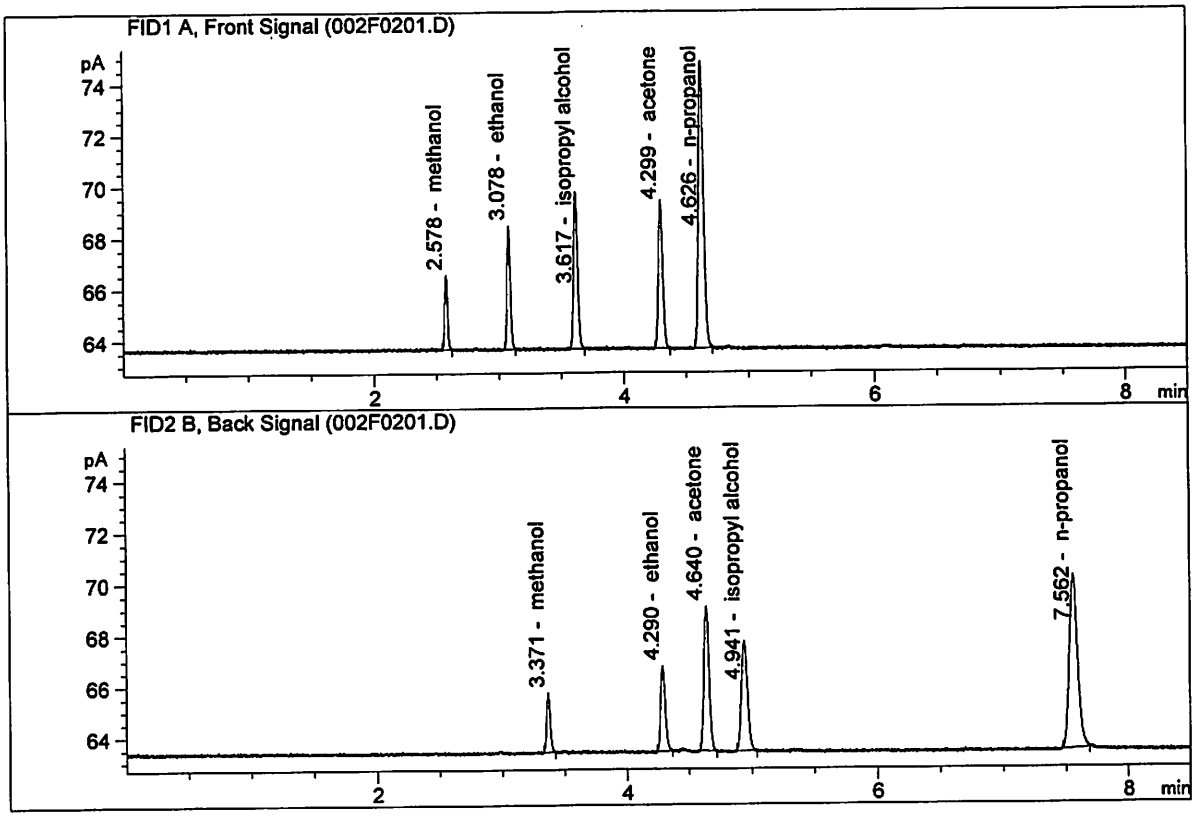


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	49.53315	1.0000	g/100cc
4.	n-Propanol	Column 2:	51.93996	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

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



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	8.58885	0.1489	g/100cc
2.	Ethanol	Column 2:	8.89855	0.1494	g/100cc
3.	n-Propanol	Column 1:	31.57977	1.0000	g/100cc
4.	n-Propanol	Column 2:	32.43367	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

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

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0758	0.0762	0.0004	0.0760	0.0764	
(g/100cc)	0.0770	0.0766	0.0004	0.0768		

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
0.076	**0.072**	**0.080**	**0.004**

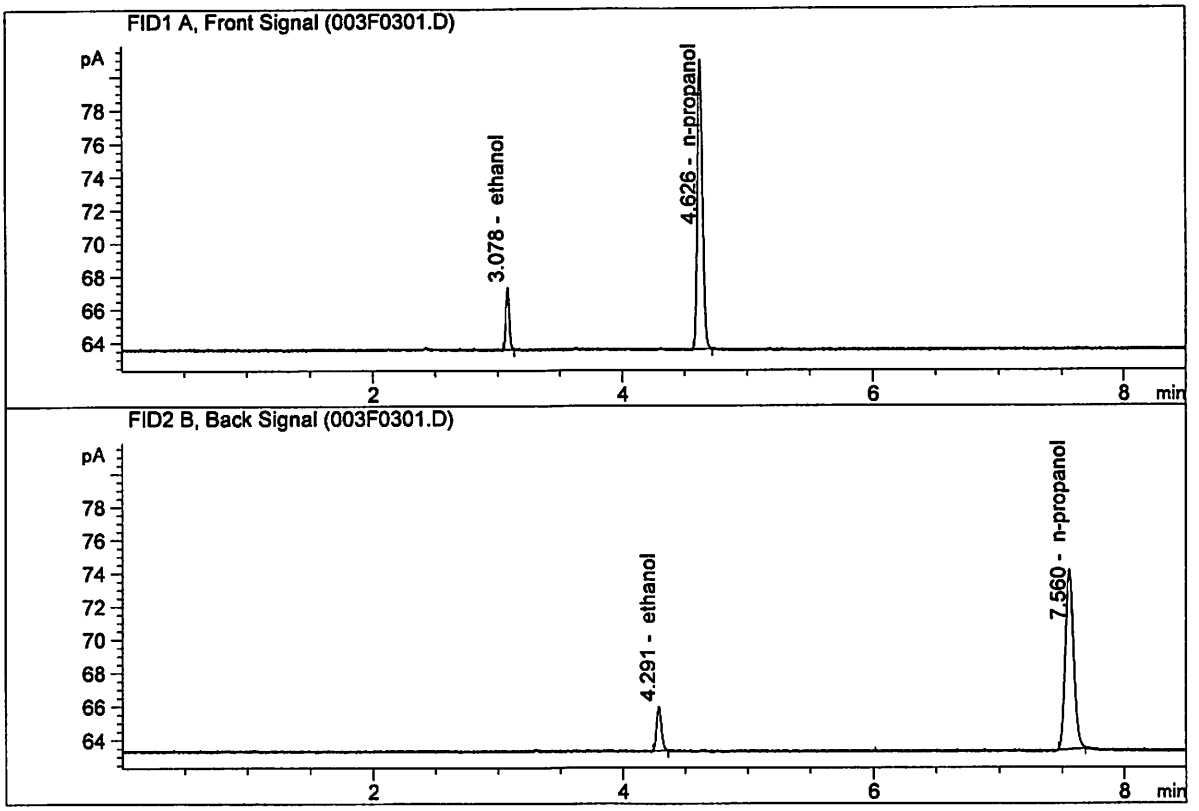
	Reported Result	
	0.076	

Calibration and control data are stored centrally.

JG

ISP Forensic Services Blood Alcohol Report

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



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.83716	0.0758	g/100cc
2.	Ethanol	Column 2:	7.00750	0.0762	g/100cc
3.	n-Propanol	Column 1:	49.49988	1.0000	g/100cc
4.	n-Propanol	Column 2:	51.34621	1.0000	g/100cc

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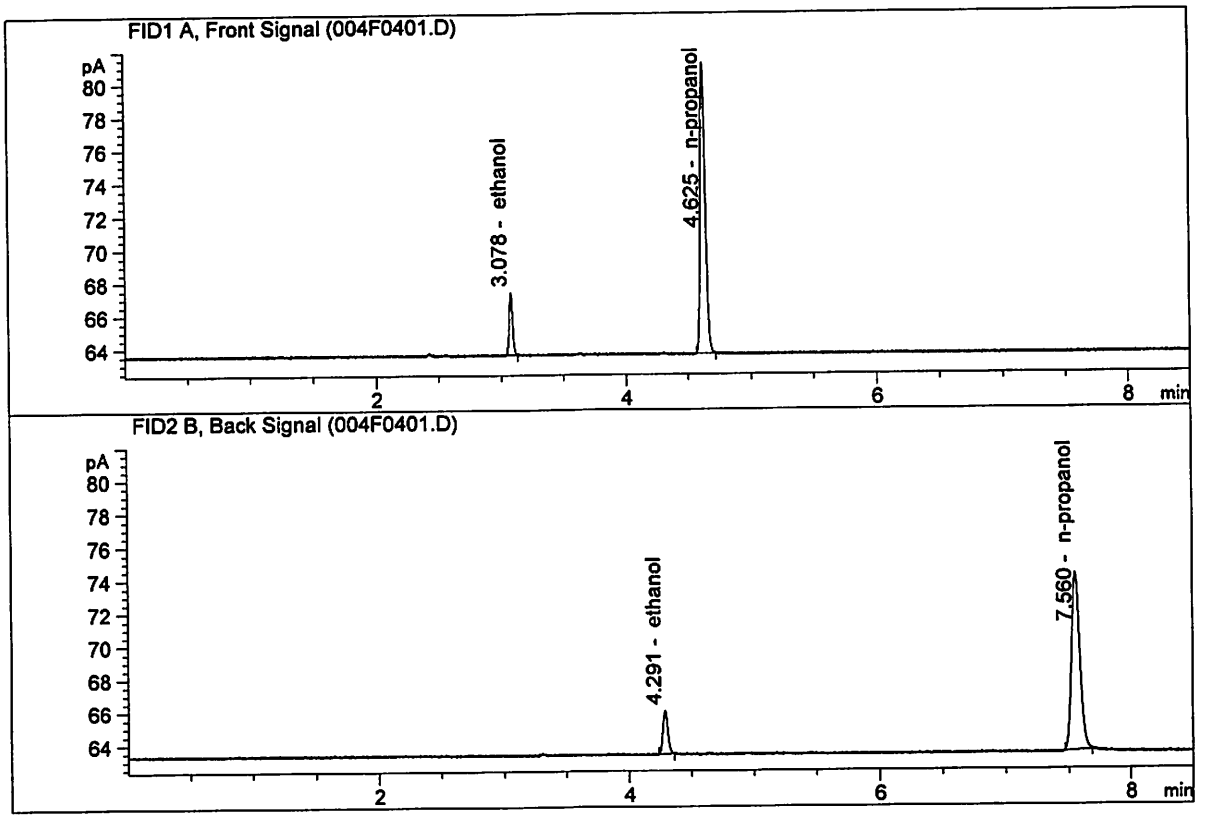
ISP Forensic Services Blood Alcohol Report

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



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.97928	0.0770	g/100cc
2.	Ethanol	Column 2:	7.05603	0.0766	g/100cc
3.	n-Propanol	Column 1:	49.73656	1.0000	g/100cc
4.	n-Propanol	Column 2:	51.44721	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

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

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0801	0.0807	0.0006	0.0804	0.0802	
(g/100cc)	0.0794	0.0807	0.0013	0.0800		

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**

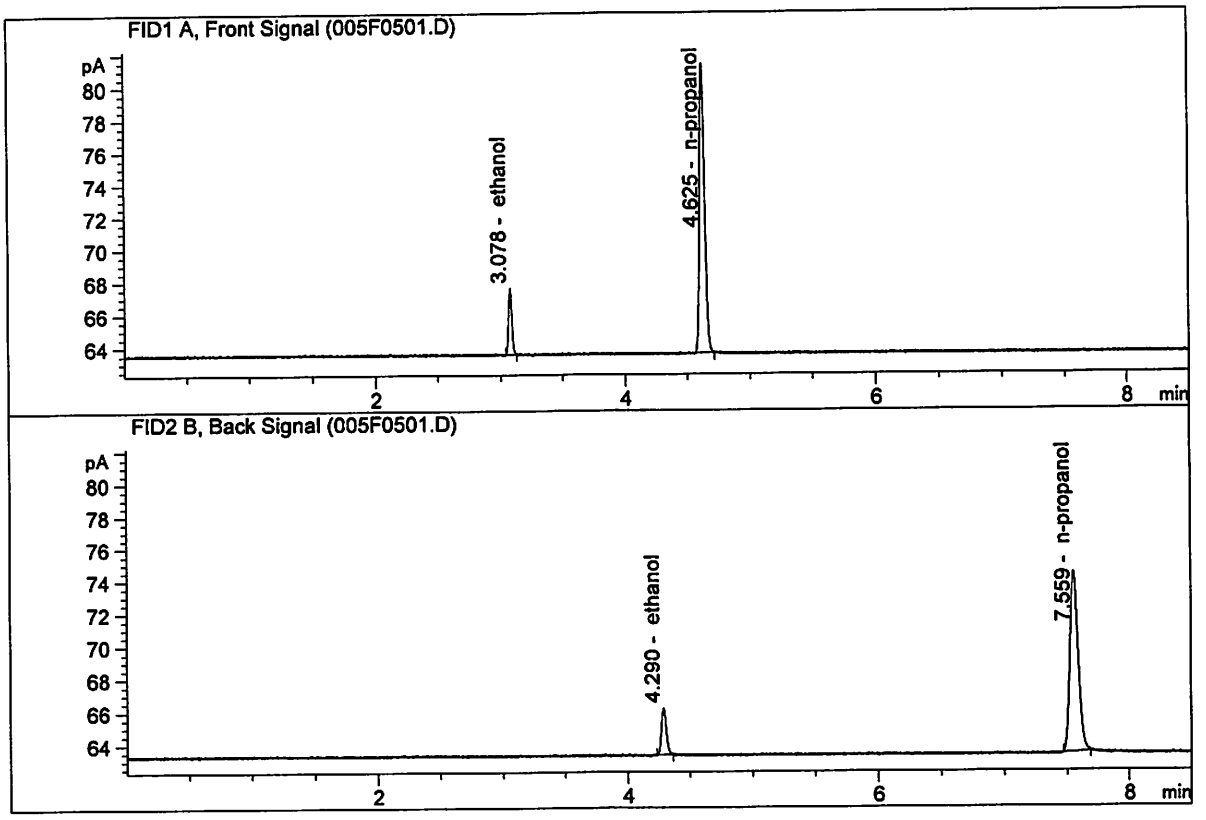
	Reported Result	
	0.080	

Calibration and control data are stored centrally.

JG

ISP Forensic Services Blood Alcohol Report

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

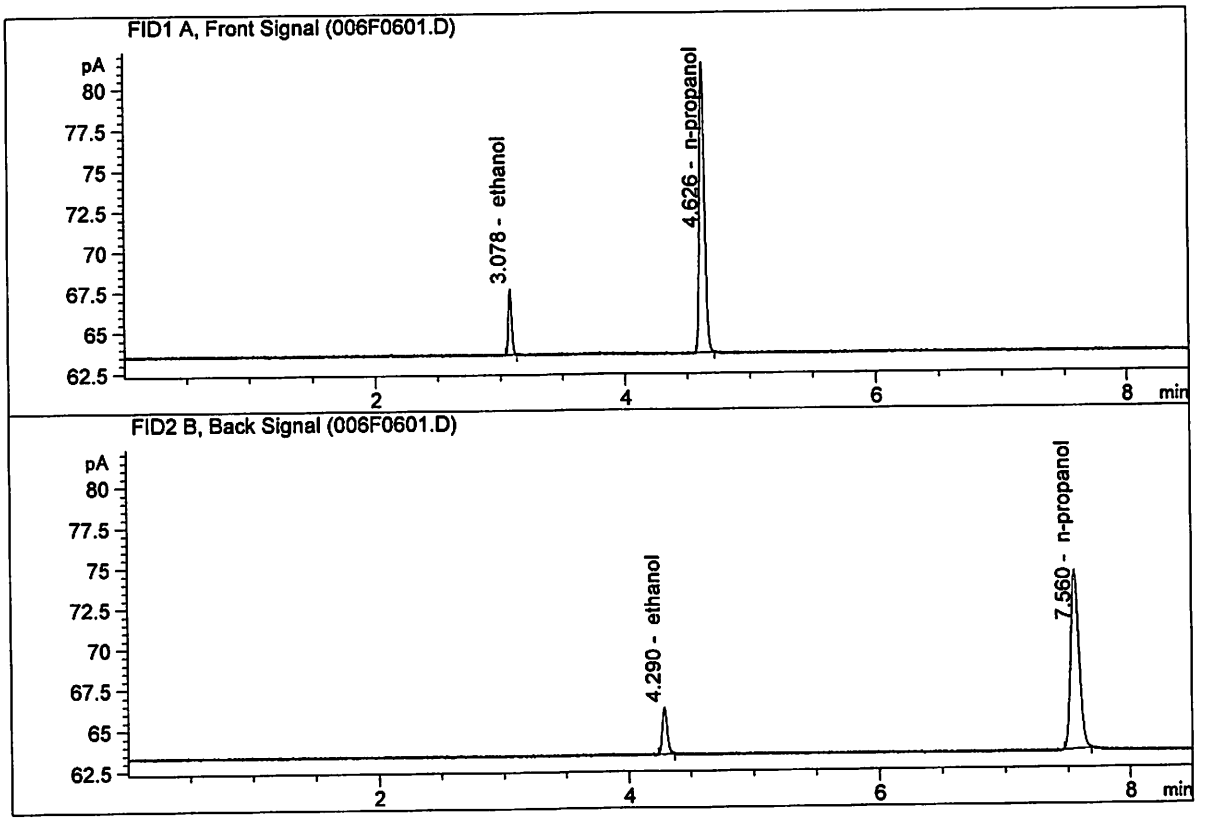


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.37121	0.0801	g/100cc
2.	Ethanol	Column 2:	7.58258	0.0807	g/100cc
3.	n-Propanol	Column 1:	50.49631	1.0000	g/100cc
4.	n-Propanol	Column 2:	52.31437	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

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



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.36780	0.0794	g/100cc
2.	Ethanol	Column 2:	7.64362	0.0807	g/100cc
3.	n-Propanol	Column 1:	50.89937	1.0000	g/100cc
4.	n-Propanol	Column 2:	52.70624	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

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

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.1987	0.1976	0.0011	0.1981	0.1980	
(g/100cc)	0.1976	0.1982	0.0006	0.1979		

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
0.198	**0.188**	**0.208**	**0.010**

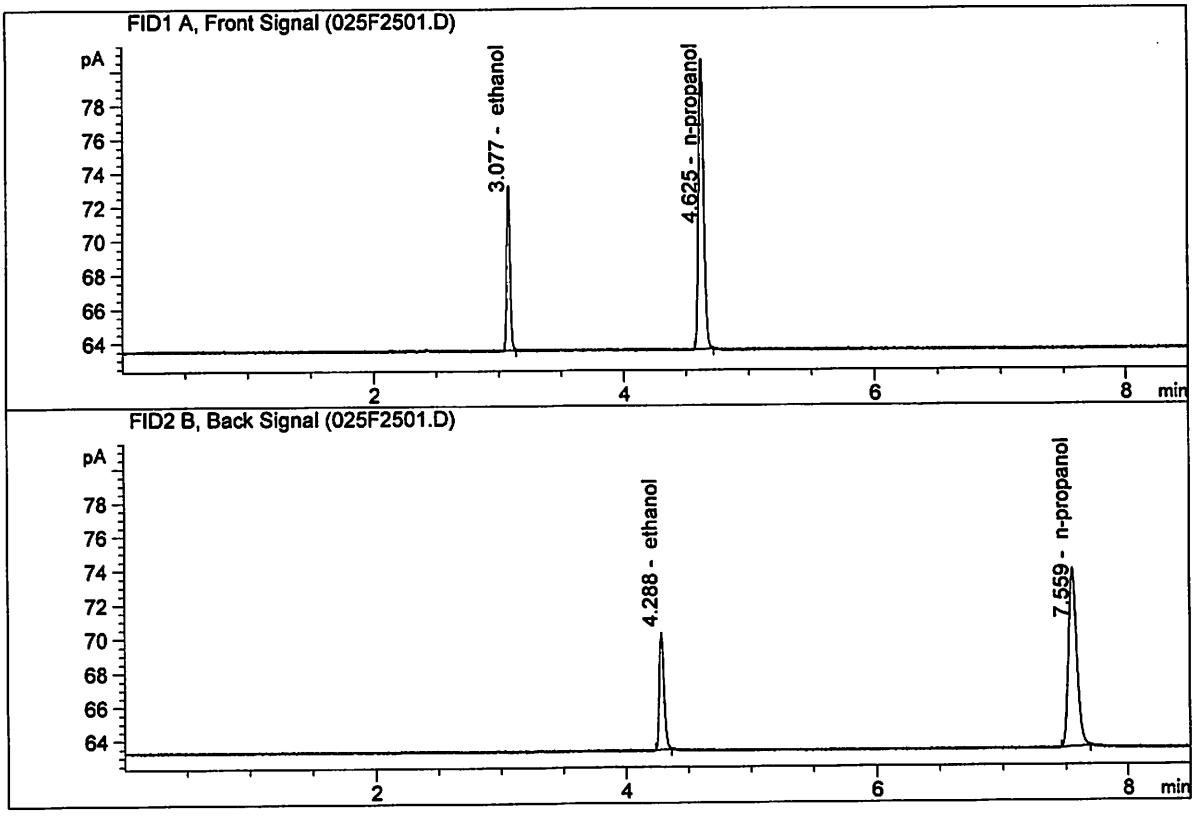
	Reported Result	
	0.198	

Calibration and control data are stored centrally.

JG

ISP Forensic Services Blood Alcohol Report

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



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	17.65819	0.1987	g/100cc
2.	Ethanol	Column 2:	18.36302	0.1976	g/100cc
3.	n-Propanol	Column 1:	48.60132	1.0000	g/100cc
4.	n-Propanol	Column 2:	50.30074	1.0000	g/100cc

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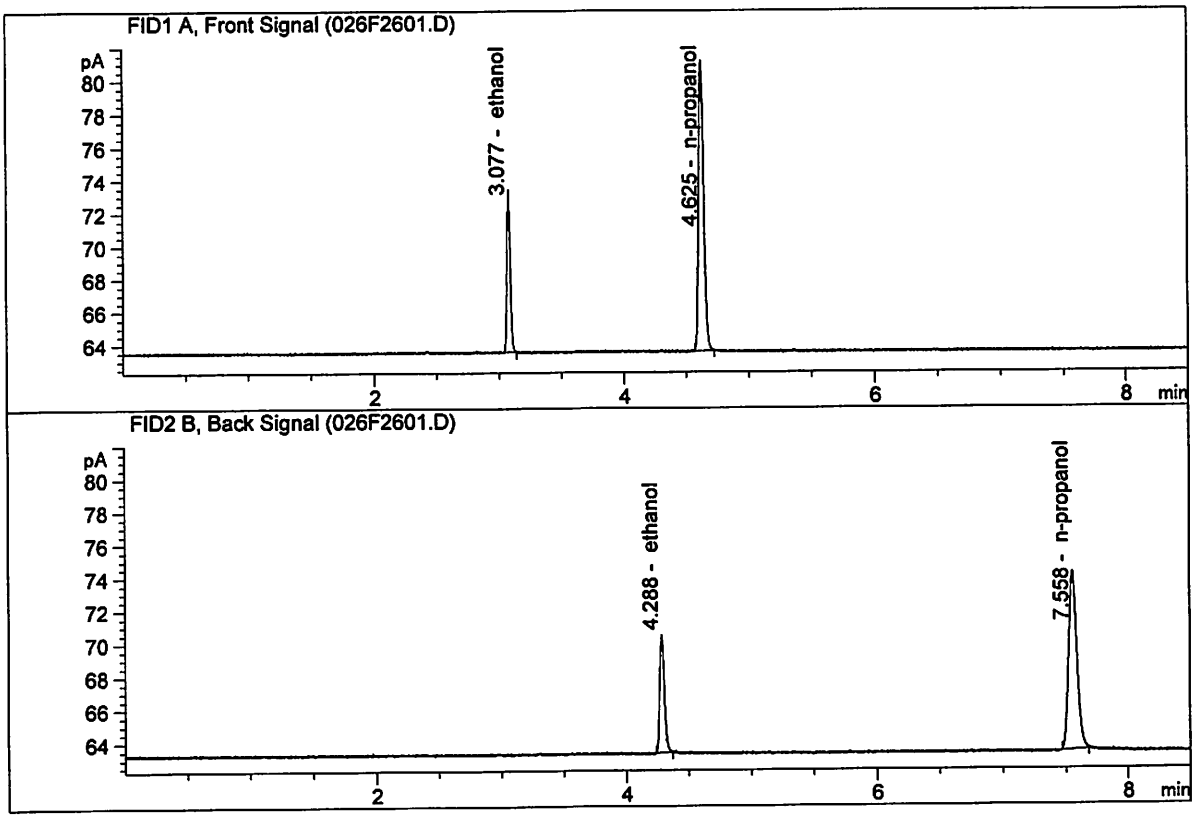
ISP Forensic Services Blood Alcohol Report

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



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.07746	0.1976	g/100cc
2.	Ethanol	Column 2:	18.85314	0.1982	g/100cc
3.	n-Propanol	Column 1:	50.03977	1.0000	g/100cc
4.	n-Propanol	Column 2:	51.46187	1.0000	g/100cc

JC

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC2-2 **Analysis Date(s): 10 Jan 2019**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.1989	0.1985	0.0004	0.1987	0.1985	
(g/100cc)	0.1983	0.1986	0.0003	0.1984		

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
0.198	**0.188**	**0.208**	**0.010**

	Reported Result	
	0.198	

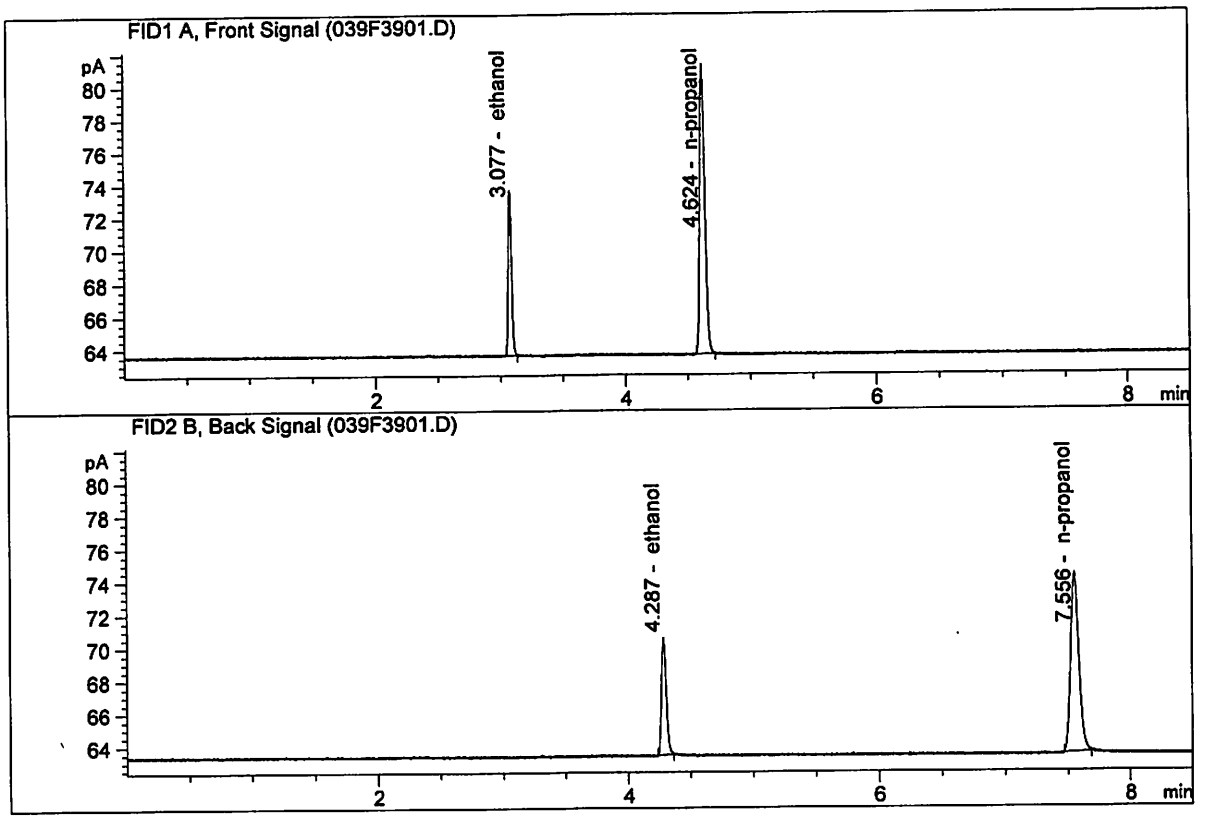
Calibration and control data are stored centrally.

JG

ISP Forensic Services Blood Alcohol Report

QC2-2-A

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

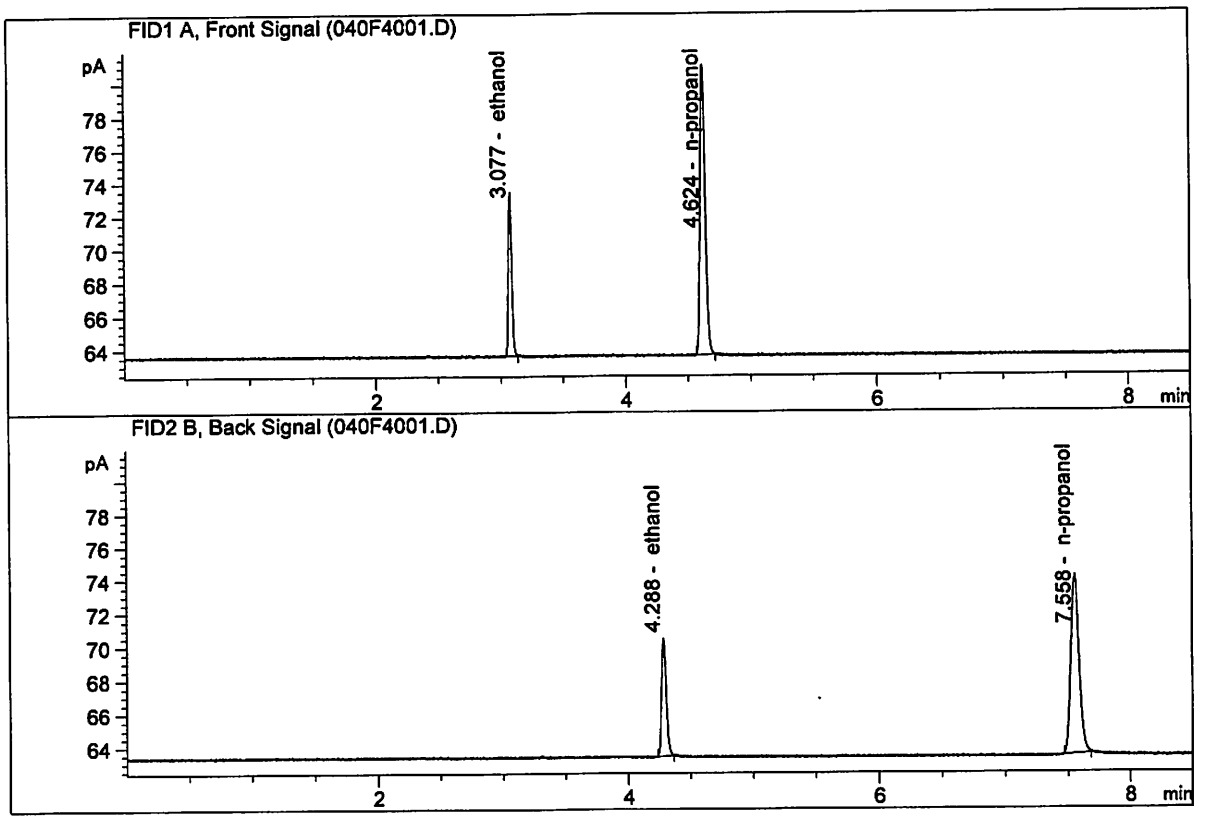


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.25332	0.1989	g/100cc
2.	Ethanol	Column 2:	18.91566	0.1985	g/100cc
3.	n-Propanol	Column 1:	50.19414	1.0000	g/100cc
4.	n-Propanol	Column 2:	51.57295	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

QC2-2-B

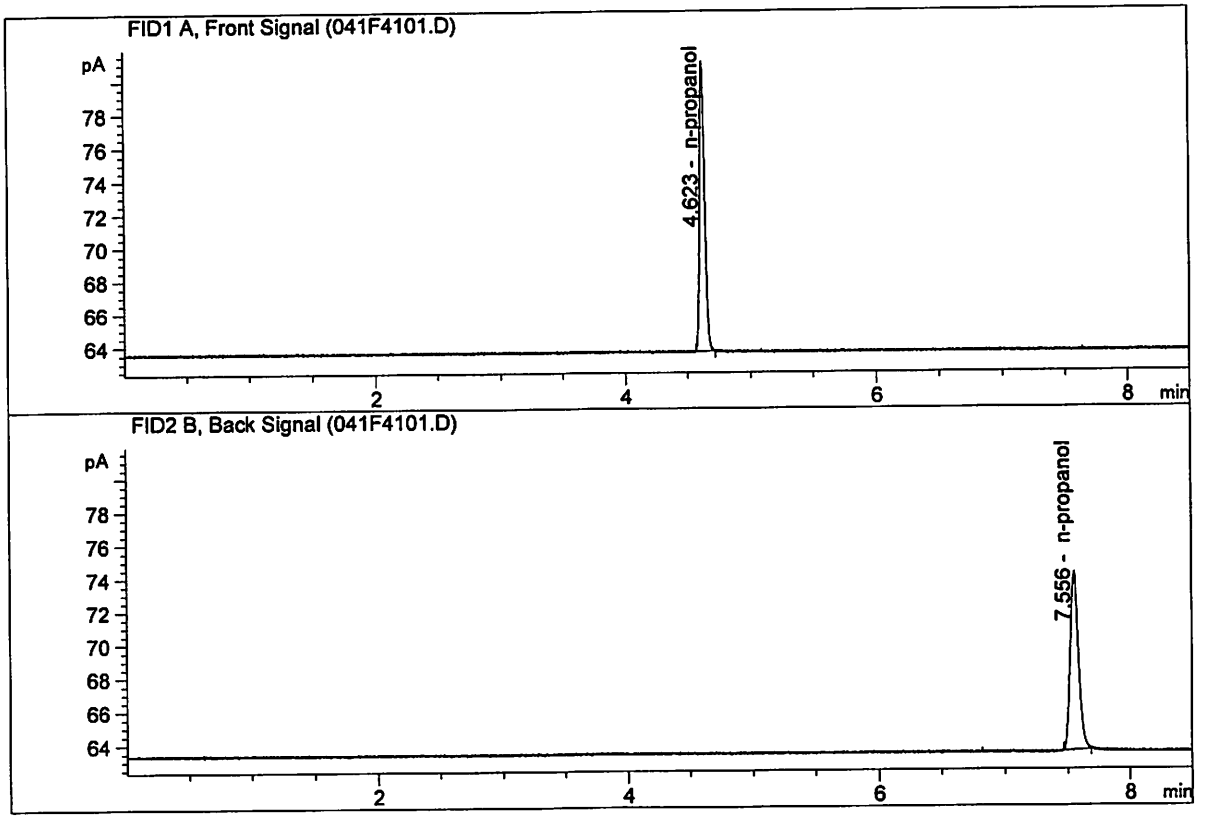
Sample Name : ~~QC1-2-B~~ JC
Laboratory : Meridian
Injection Date : Jan 10, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	17.96201	0.1983	g/100cc
2.	Ethanol	Column 2:	18.65538	0.1986	g/100cc
3.	n-Propanol	Column 1:	49.54069	1.0000	g/100cc
4.	n-Propanol	Column 2:	50.84210	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK
Laboratory : Meridian
Injection Date : Jan 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:	49.55005	1.0000	g/100cc
4.	n-Propanol	Column 2:	50.93738	1.0000	g/100cc

JG

Sequence File C:\Chem32\...9_SAMPLES\01-03-19_SAMPLES 2019-01-10 12-16-06\01-03-19_SAMPLES.S

Sample Summary

Sequence table: C:\Chem32\1\Data\01-10-19_SAMPLES\01-03-19_SAMPLES 2019-01-10 12-16-06\01 03-19_SAMPLES.S
Data directory path: C:\Chem32\1\Data\01-10-19_SAMPLES\01-03-19_SAMPLES 2019-01-10 12-16-06\
Logbook: C:\Chem32\1\Data\01-10-19_SAMPLES\01-03-19_SAMPLES 2019-01-10 12-16-06\01 03-19_SAMPLES.LOG
Sequence start: 1/10/2019 12:30:53 PM
Sequence Operator: SYSTEM
Operator: SYSTEM

Method file name: C:\Chem32\1\Data\01-10-19_SAMPLES\01-03-19_SAMPLES 2019-01-10 12-16-06 \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	M2018-4457-3-A	-	1.0000	007F0701.D		2
8	8	1	M2018-4457-3-B	-	1.0000	008F0801.D		2
9	9	1	M2018-6226-1-A	-	1.0000	009F0901.D		2
10	10	1	M2018-6226-1-B	-	1.0000	010F1001.D		2
11	11	1	M2018-6227-1-A	-	1.0000	011F1101.D		2
12	12	1	M2018-6227-1-B	-	1.0000	012F1201.D		2
13	13	1	M2018-6363-1-A	-	1.0000	013F1301.D		4
14	14	1	M2018-6363-1-B	-	1.0000	014F1401.D		4
15	15	1	M2019-0016-1-A	-	1.0000	015F1501.D		6
16	16	1	M2019-0016-1-B	-	1.0000	016F1601.D		6
17	17	1	M2019-0017-1-A	-	1.0000	017F1701.D		4
18	18	1	M2019-0017-1-B	-	1.0000	018F1801.D		4
19	19	1	M2019-0018-1-A	-	1.0000	019F1901.D		4
20	20	1	M2019-0018-1-B	-	1.0000	020F2001.D		4
21	21	1	M2019-0027-1-A	-	1.0000	021F2101.D		4
22	22	1	M2019-0027-1-B	-	1.0000	022F2201.D		4
23	23	1	M2019-0028-1-A	-	1.0000	023F2301.D		4
24	24	1	M2019-0028-1-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	M2019-0063-1-A	-	1.0000	027F2701.D		4
28	28	1	M2019-0063-1-B	-	1.0000	028F2801.D		4
29	29	1	M2019-0064-1-A	-	1.0000	029F2901.D		4
30	30	1	M2019-0064-1-B	-	1.0000	030F3001.D		4
31	31	1	M2019-0092-1-A	-	1.0000	031F3101.D		4
32	32	1	M2019-0092-1-B	-	1.0000	032F3201.D		4
33	33	1	M2019-0148-1-A	-	1.0000	033F3301.D		4
34	34	1	M2019-0148-1-B	-	1.0000	034F3401.D		4
35	35	1	M2019-0149-1-A	-	1.0000	035F3501.D		4
36	36	1	M2019-0149-1-B	-	1.0000	036F3601.D		4
37	37	1	M2019-0176-1-A	-	1.0000	037F3701.D		4
38	38	1	M2019-0176-1-B	-	1.0000	038F3801.D		4
39	39	1	~~QC1-2-A~~ QC2-2-A	-	1.0000	039F3901.D		4
40	40	1	~~QC1-2-B~~ QC2-2-A	-	1.0000	040F4001.D		4
41	41	1	INTERNAL STD BLK	-	1.0000	041F4101.D		2

JC

Sequence File C:\Chem32\...9_SAMPLES\01-03-19_SAMPLES 2019-01-10 12-16-06\01-03-19_SAMPLES.S

Method file name: C:\Chem32\1\Data\01-10-19_SAMPLES\01-03-19_SAMPLES 2019-01-10 12-16-06 \SHUTDOWN.M

Run #	Location #	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal #	# Cmp
42	42	1	EMPTY	-	1.0000	042F4201.D		0

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

Calibration Table

General Calibration Setting

Calib. Data Modified : Friday, December 28, 2018 10:46:20 AM
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

JL

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

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	4.65589	1.07391e-2	No	No	1	ethanol
		2	1.00000e-1	9.22056	1.08453e-2				
		3	2.00000e-1	18.40607	1.08660e-2				
		4	3.00000e-1	27.87200	1.07635e-2				
		5	5.00000e-1	46.52290	1.07474e-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	4.79970	1.04173e-2	No	No	2	ethanol
		2	1.00000e-1	9.51344	1.05114e-2				
		3	2.00000e-1	19.22630	1.04024e-2				
		4	3.00000e-1	29.31839	1.02325e-2				
		5	5.00000e-1	49.27648	1.01468e-2				
4.308	1	1	1.00000	6.49940	1.53860e-1	No	No	1	acetone
4.620	1	1	1.00000	50.97479	1.96175e-2	No	Yes	1	n-propanol
		2	1.00000	50.60676	1.97602e-2				
		3	1.00000	50.41838	1.98340e-2				
		4	1.00000	50.76781	1.96975e-2				
		5	1.00000	50.82323	1.96760e-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	53.18661	1.88017e-2	No	Yes	2	n-propanol
		2	1.00000	52.82743	1.89296e-2				
		3	1.00000	52.39926	1.90842e-2				
		4	1.00000	52.58273	1.90176e-2				
		5	1.00000	52.64596	1.89948e-2				

Peak Sum Table

No Entries in table

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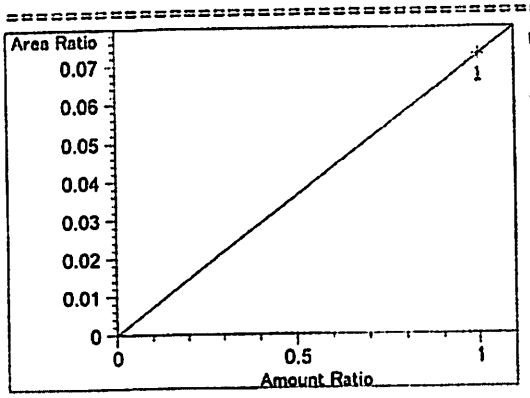
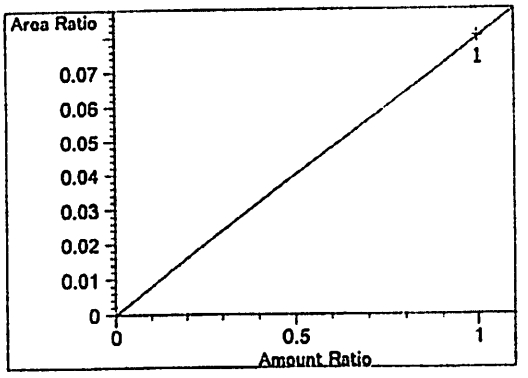
41 Warnings or Errors (10 first messages follow) :

Warning : Curve requires more calibration points., (methanol)
Warning : Curve requires more calibration points. at 2.586 min, signal 1
Warning : Curve requires more calibration points. at 2.809 min, signal 1
Warning : Curve requires more calibration points. at 2.977 min, signal 2
Warning : Curve requires more calibration points. at 3.388 min, signal 2
Warning : Curve requires more calibration points. at 3.628 min, signal 1
Warning : Curve requires more calibration points. at 4.308 min, signal 1
Warning : Curve requires more calibration points. at 4.62 min, signal 1
Warning : Curve requires more calibration points. at 4.661 min, signal 2
Warning : Curve requires more calibration points. at 4.969 min, signal 2

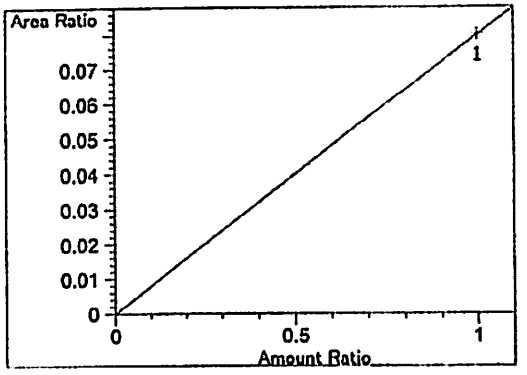
Calibration Curves



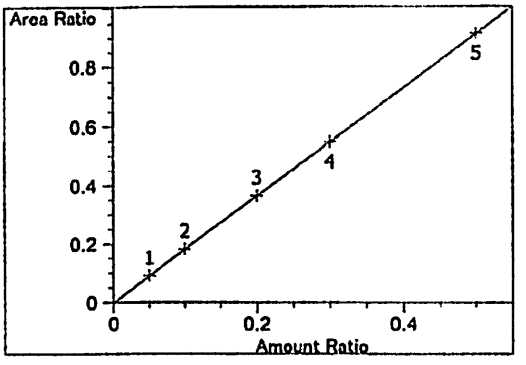
methanol at exp. RT: 2.586
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 7.25201e-2
b: 0.00000
x: Amount Ratio
y: Area Ratio



Acetaldehyde at exp. RT: 2.809
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 8.01141e-2
b: 0.00000
x: Amount Ratio
y: Area Ratio



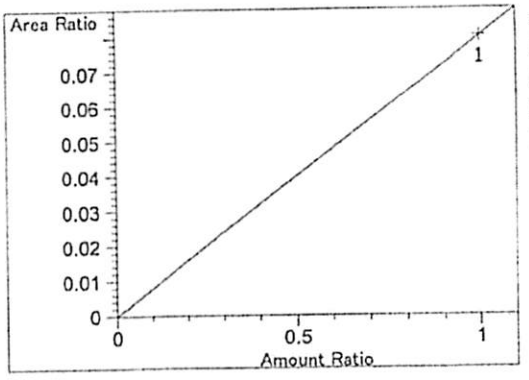
Acetaldehyde at exp. RT: 2.977
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 8.01141e-2
b: 0.00000
x: Amount Ratio
y: Area Ratio



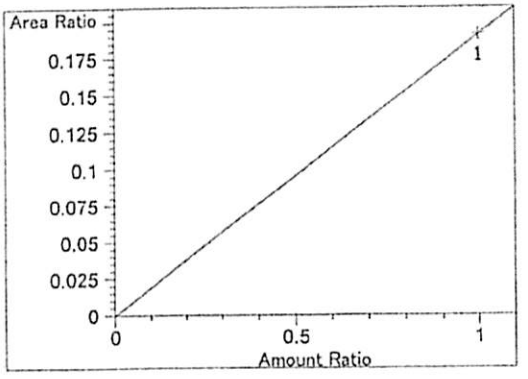
ethanol at exp. RT: 3.075
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00048
Formula: y = mx + b
m: 1.83208
b: -7.78581e-4
x: Amount Ratio
y: Area Ratio

JG

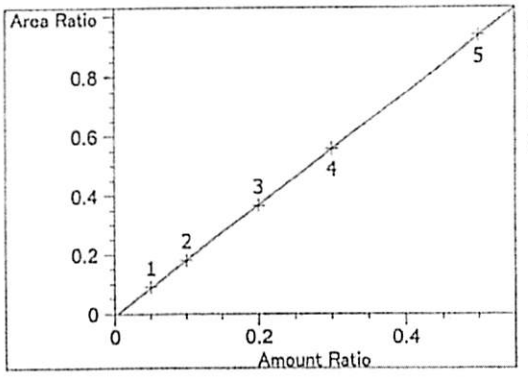
Method C:\CHEM32\1\METHODS\ALCOHOL.M



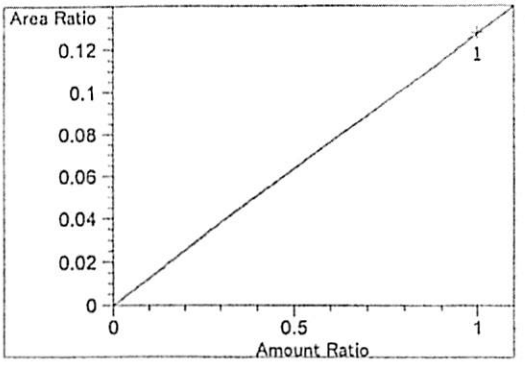
methanol at exp. RT: 3.388
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 8.01071e-2
b: 0.00000
x: Amount Ratio
y: Area Ratio



isopropyl alcohol at exp. RT: 3.628
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.90890e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio

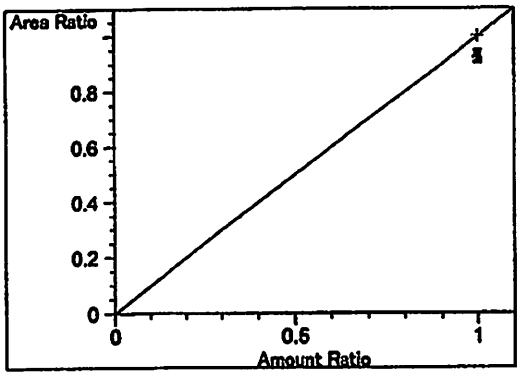


ethanol at exp. RT: 4.285
FID2 B, Back Signal
Correlation: 0.99998
Residual Std. Dev.: 0.00262
Formula: y = mx + b
m: 1.88349
b: -7.04023e-3
x: Amount Ratio
y: Area Ratio

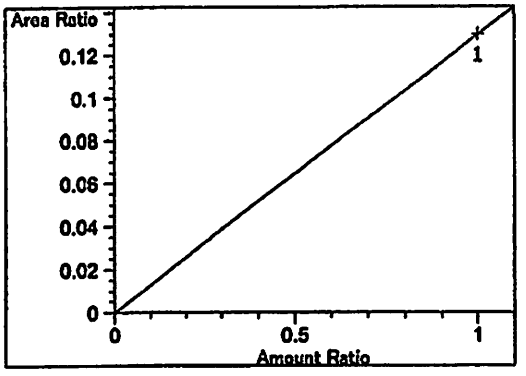


acetone at exp. RT: 4.308
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.27502e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio

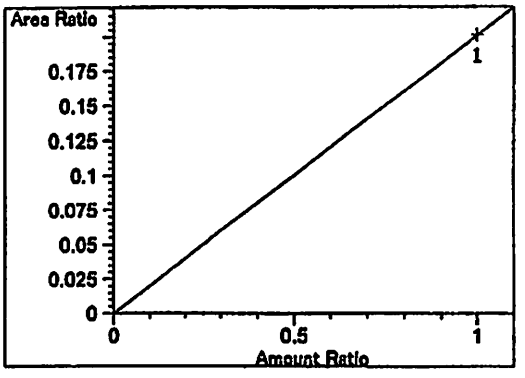
JG



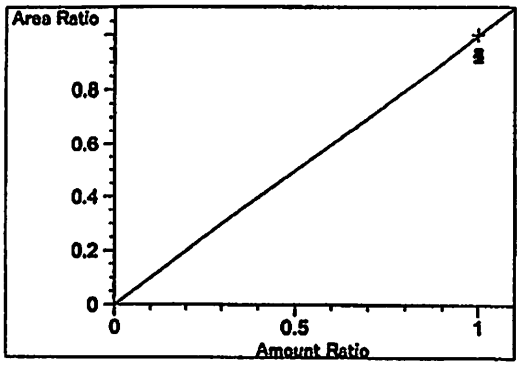
n-propanol at exp. RT: 4.620
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.00000
b: 0.00000
x: Amount Ratio
y: Area Ratio



acetone at exp. RT: 4.661
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.29600e-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: 2.01299e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio

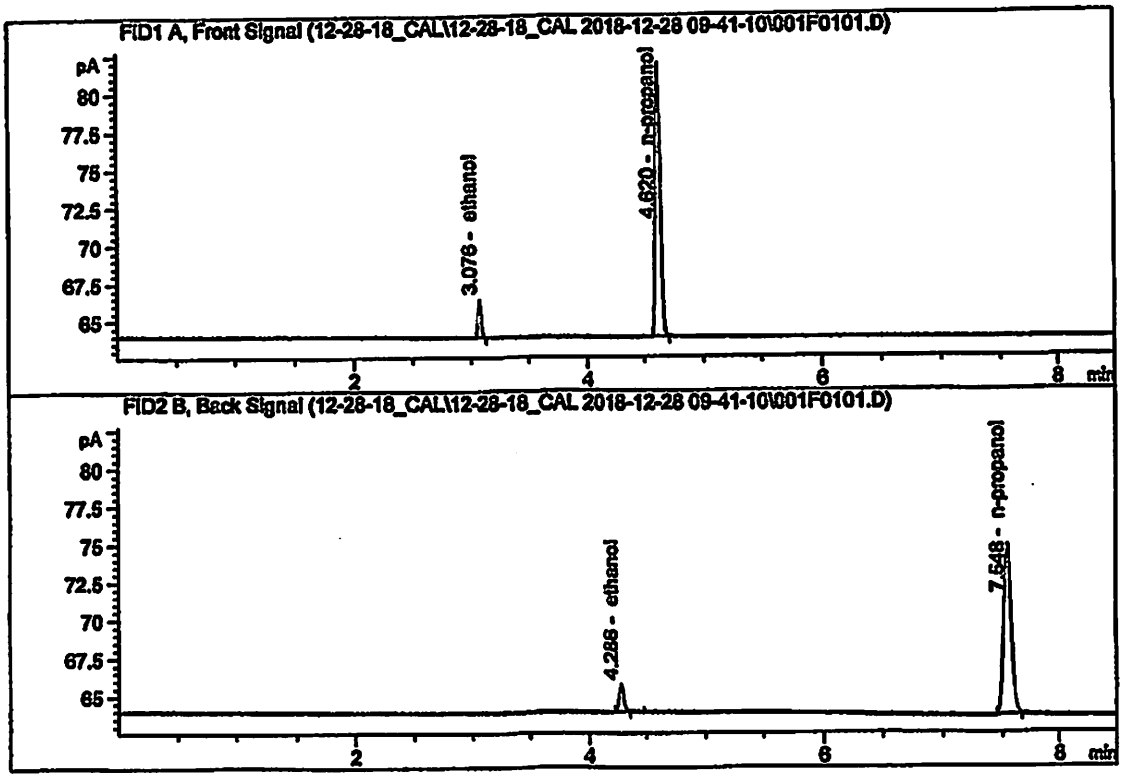


n-propanol at exp. RT: 7.550
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.00000
b: 0.00000
x: Amount Ratio
y: Area Ratio

JG

ISP Forensic Services Blood Alcohol Report

Sample Name	:	0.050 FN04271601
Laboratory	:	Meridian
Injection Date	:	Dec 28, 2018
Method	:	ALCOHOL.M
Acq. Instrument	:	CN11180014-CN11041167

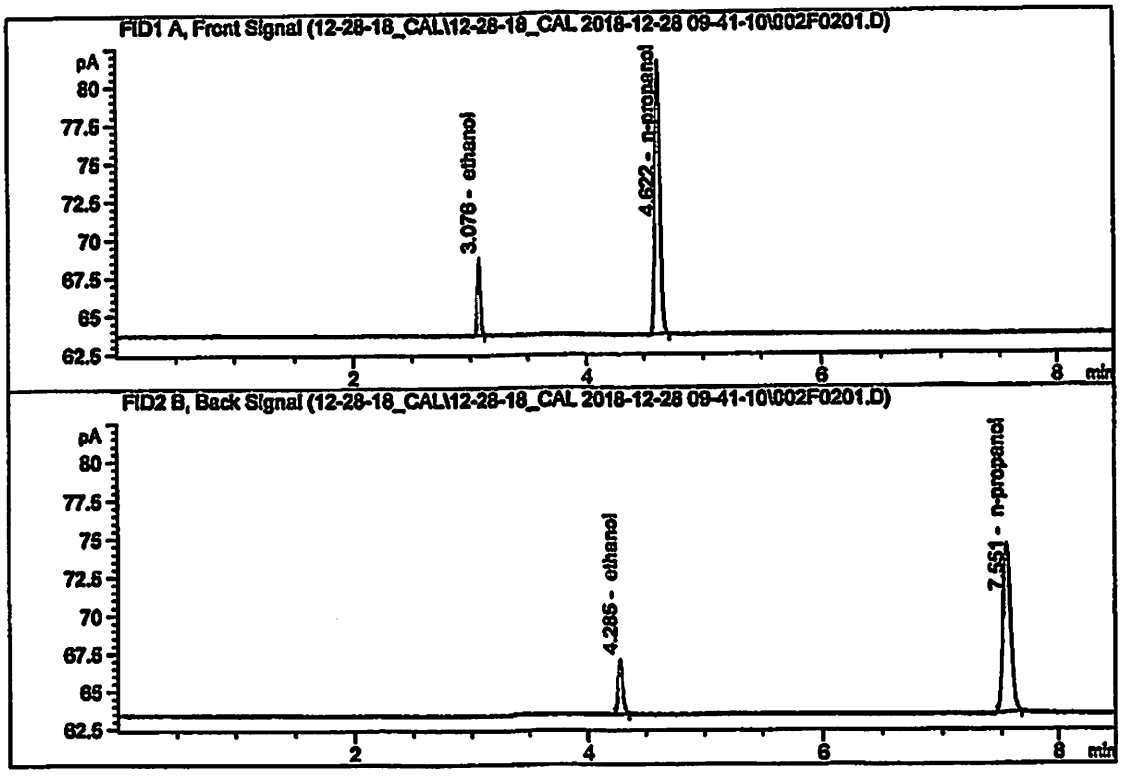


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	4.65589	0.0503	g/100cc
2.	Ethanol	Column 2:	4.79970	0.0517	g/100cc
3.	n-Propanol	Column 1:	50.97479	1.0000	g/100cc
4.	n-Propanol	Column 2:	53.18661	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

Sample Name	:	0.100 FN08101601
Laboratory	:	Meridian
Injection Date	:	Dec 28, 2018
Method	:	ALCOHOL.M
Acq. Instrument	:	CN11180014-CN11041167

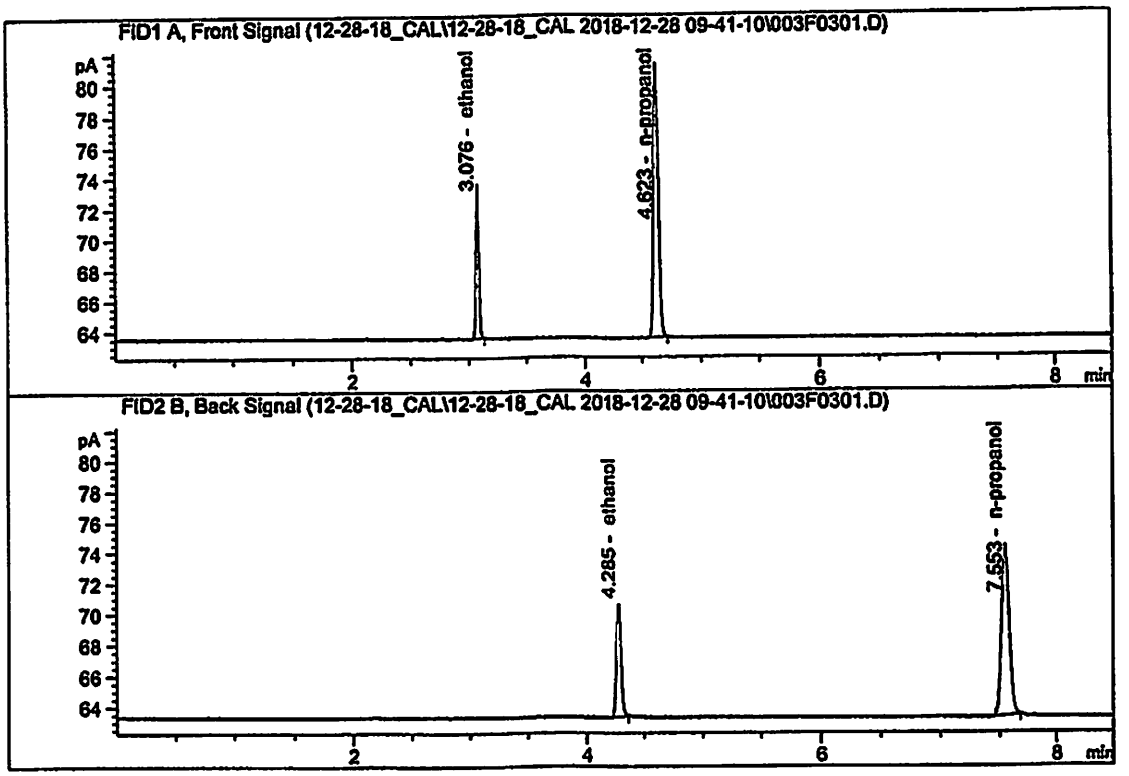


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	9.22056	0.0999	g/100cc
2.	Ethanol	Column 2:	9.51344	0.0994	g/100cc
3.	n-Propanol	Column 1:	50.60676	1.0000	g/100cc
4.	n-Propanol	Column 2:	52.82743	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.200 FN03301601
Laboratory : Meridian
Injection Date : Dec 28, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

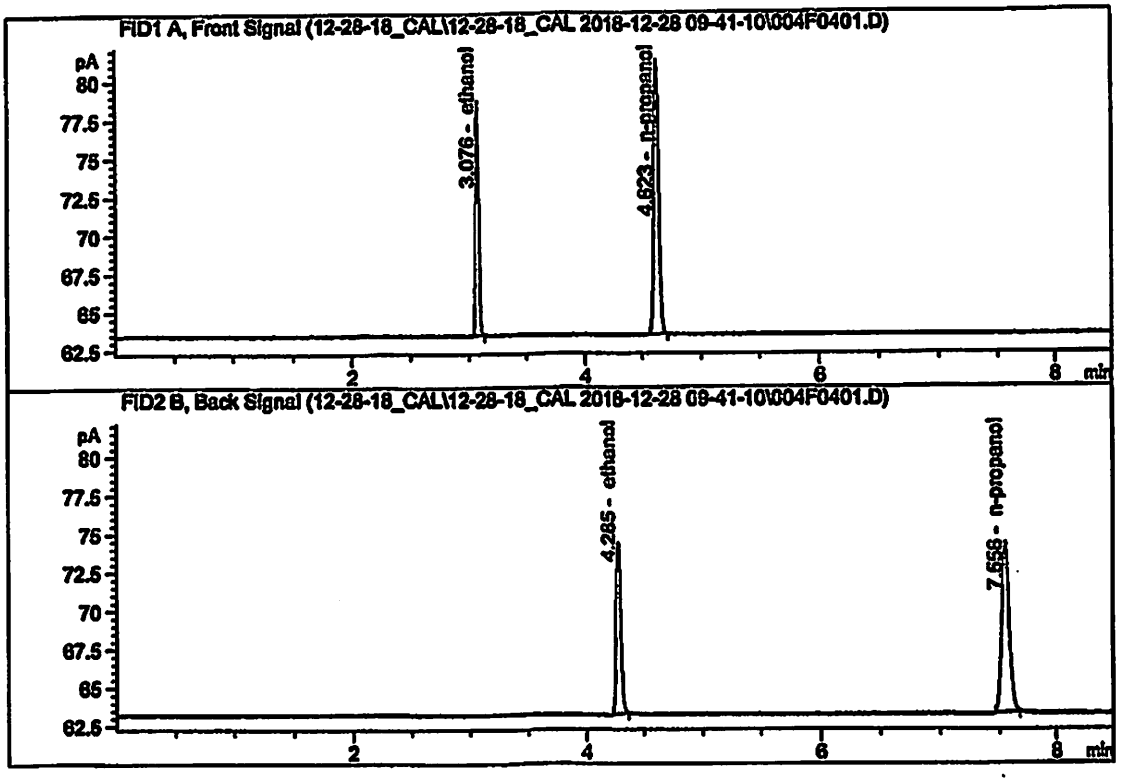


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.40607	0.1997	g/100cc
2.	Ethanol	Column 2:	19.22630	0.1985	g/100cc
3.	n-Propanol	Column 1:	50.41838	1.0000	g/100cc
4.	n-Propanol	Column 2:	52.39926	1.0000	g/100cc

JC

ISP Forensic Services Blood Alcohol Report

Sample Name	:	0.300 FN06051501
Laboratory	:	Meridian
Injection Date	:	Dec 28, 2018
Method	:	ALCOHOL.M
Acq. Instrument	:	CN11180014-CN11041167

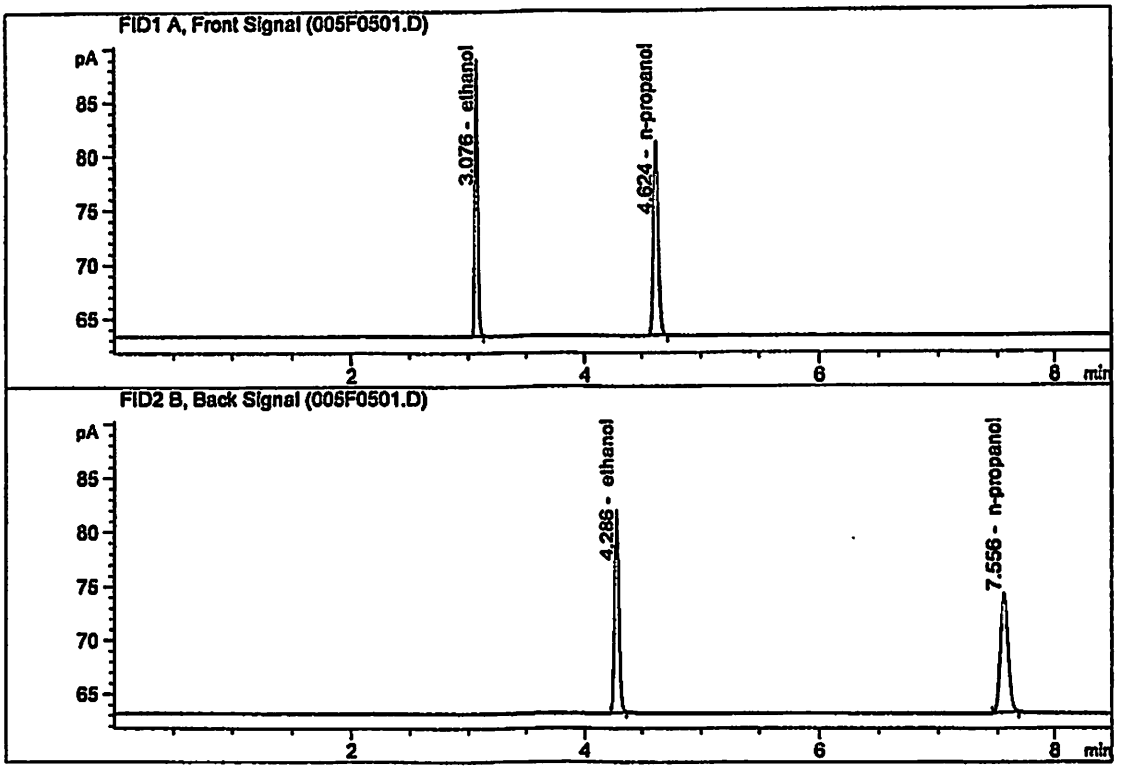


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	27.87200	0.3001	g/100cc
2.	Ethanol	Column 2:	29.31839	0.2998	g/100cc
3.	n-Propanol	Column 1:	50.76781	1.0000	g/100cc
4.	n-Propanol	Column 2:	52.58273	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.500 FN08031602
Laboratory : Meridian
Injection Date : Dec 28, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

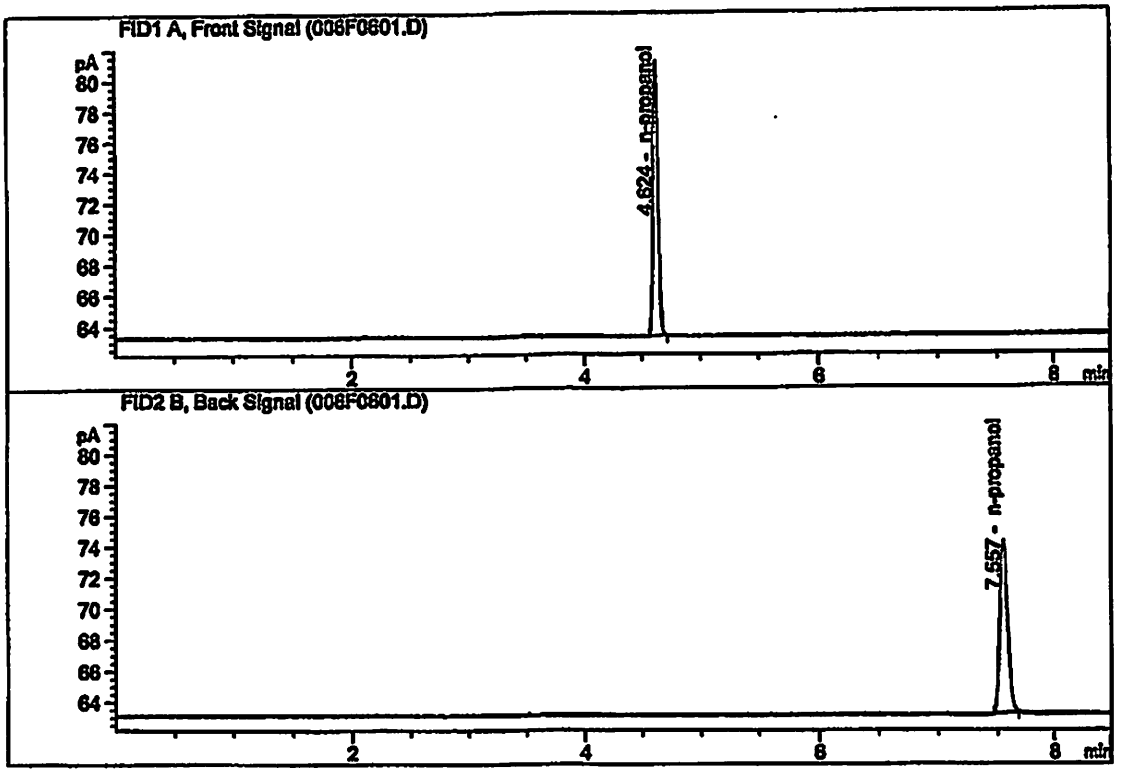


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	46.52290	0.5001	g/100cc
2.	Ethanol	Column 2:	49.27648	0.5007	g/100cc
3.	n-Propanol	Column 1:	50.82323	1.0000	g/100cc
4.	n-Propanol	Column 2:	52.64596	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

Sample Name	:	INTERNAL STANDARD BLANK
Laboratory	:	Meridian
Injection Date	:	Dec 28, 2018
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:	50.80370	1.0000	g/100cc
4.	n-Propanol	Column 2:	52.55082	1.0000	g/100cc