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): 11/14/19-11/15/19**

Calibration Date: 11/14/19

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Jan-22	1801036	0.0812	0.0731-0.0893	0.0800 g/100cc
					0.0821 g/100cc
					g/100cc
Level 2	Mar-22	1803028	0.2035	0.1832-0.2238	0.1970 g/100cc
					0.1997 g/100cc
					g/100cc

Multi-Component mixture:	**Sep-20**		**Lot #**	FN06041502	ok
Curve Fit:		**Column 1**	0.99999	**Column2**	0.99995

Ethanol Calibration Reference Material

Calibrator level	Target Value	Acceptable Range	Column 1	Column 2	Precision	Mean
50	0.050	0.045 - 0.055	0.0507	0.0518	0.0011	0.0512
100	0.100	0.090 - 0.110	0.1002	0.1002	0	0.1002
200	0.200	0.180 - 0.220	0.1996	0.1983	0.0013	0.1989
300	0.300	0.270 - 0.330	0.2988	0.2982	0.0006	0.2985
500	0.500	0.450 - 0.550	0.5008	0.5016	0.0008	0.5012

Aqueous Controls

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

Worklist: 3830

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
M2019-4916	1	BCK	Alcohol Analysis
M2019-4926	1	BCK	Alcohol Analysis
M2019-4927	1	BCK	Alcohol Analysis
M2019-4928	1	BCK	Alcohol Analysis
M2019-4929	1	BCK	Alcohol Analysis
M2019-4937	1	BCK	Alcohol Analysis
M2019-4938	1	BCK	Alcohol Analysis
M2019-4938	2	BCK	Alcohol Analysis
M2019-4939	1	BCK	Alcohol Analysis
M2019-4940	1	BCK	Alcohol Analysis
M2019-4954	1	BCK	Alcohol Analysis
M2019-4964	1	BCK	Alcohol Analysis
M2019-4983	1	BCK	Alcohol Analysis
M2019-4991	1	BCK	Alcohol Analysis
M2019-4998	1	BCK	Alcohol Analysis
M2019-5014	1	BCK	Alcohol Analysis
M2019-5015	1	BCK	Alcohol Analysis
M2019-5016	1	BCK	Alcohol Analysis
M2019-5040	1	BCK	Alcohol Analysis
M2019-5041	1	BCK	Alcohol Analysis
M2019-5048	1	BCK	Alcohol Analysis

Worklist: 3830

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
M2019-5049	1	BCK	Alcohol Analysis
M2019-5050	1	BCK	Alcohol Analysis
M2019-5091	1	BCK	Alcohol Analysis
M2019-5092	1	BCK	Alcohol Analysis

Calibration Table

General Calibration Setting

Calib. Data Modified : Thursday, November 14, 2019 3:29:39 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

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	4.29843	1.16321e-2	No	No	1	ethanol
		2	1.00000e-1	8.68283	1.15170e-2				
		3	2.00000e-1	17.21634	1.16169e-2				
		4	3.00000e-1	26.38593	1.13697e-2				
		5	5.00000e-1	43.45055	1.15073e-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	4.43346	1.12779e-2	No	No	2	ethanol
		2	1.00000e-1	9.01305	1.10950e-2				
		3	2.00000e-1	17.98914	1.11178e-2				
		4	3.00000e-1	27.85958	1.07683e-2				
		5	5.00000e-1	46.06902	1.08533e-2				
4.308	1	1	1.00000	6.49940	1.53860e-1	No	No	1	acetone
4.620	1	1	1.00000	44.97118	2.22365e-2	No	Yes	1	n-propanol
		2	1.00000	45.30305	2.20736e-2				
		3	1.00000	44.74408	2.23493e-2				
		4	1.00000	45.70848	2.18778e-2				
		5	1.00000	44.81903	2.23119e-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	47.04911	2.12544e-2	No	Yes	2	n-propanol
		2	1.00000	47.12088	2.12220e-2				
		3	1.00000	46.33341	2.15827e-2				
		4	1.00000	47.30963	2.11373e-2				
		5	1.00000	46.19559	2.16471e-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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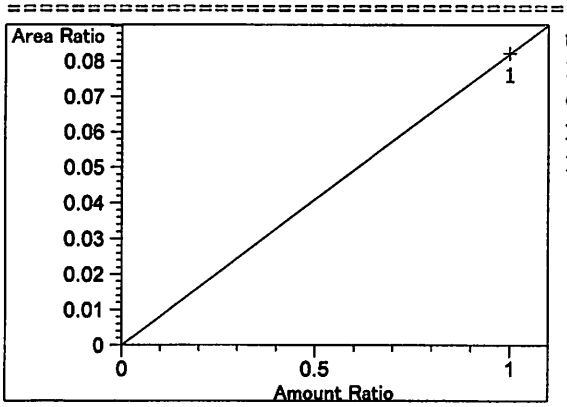
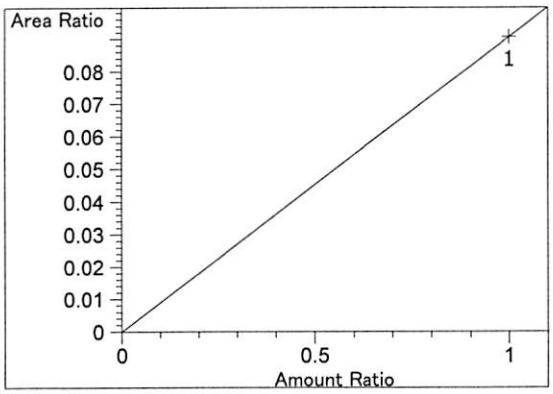
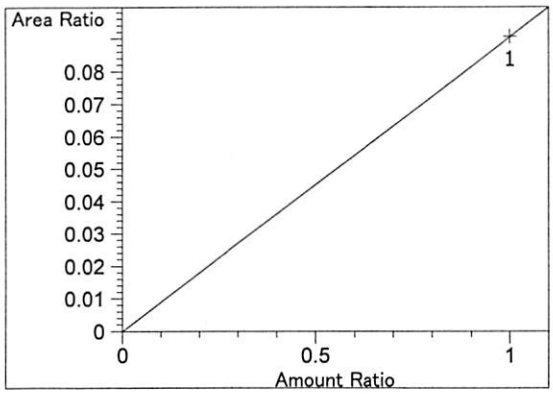


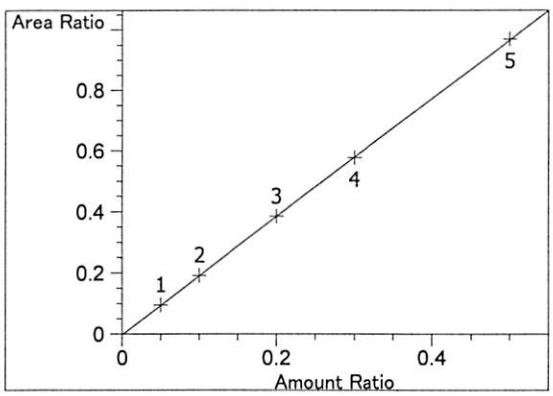
methanol at exp. RT: 2.586
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 8.22014e-2
b: 0.00000
x: Amount Ratio
y: Area Ratio



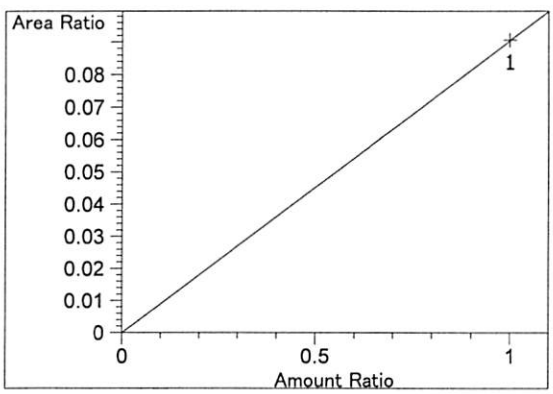
Acetaldehyde at exp. RT: 2.809
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 9.05649e-2
b: 0.00000
x: Amount Ratio
y: Area Ratio



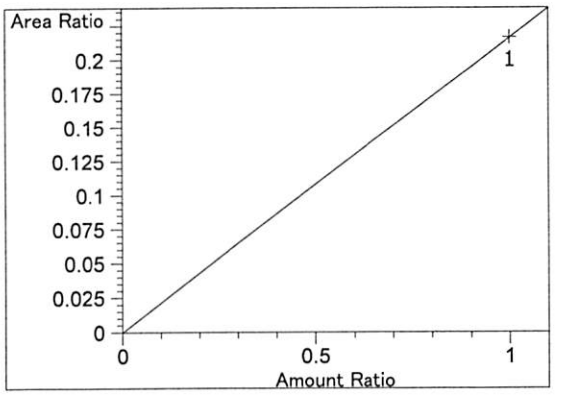
Acetaldehyde at exp. RT: 2.977
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 9.05649e-2
b: 0.00000
x: Amount Ratio
y: Area Ratio



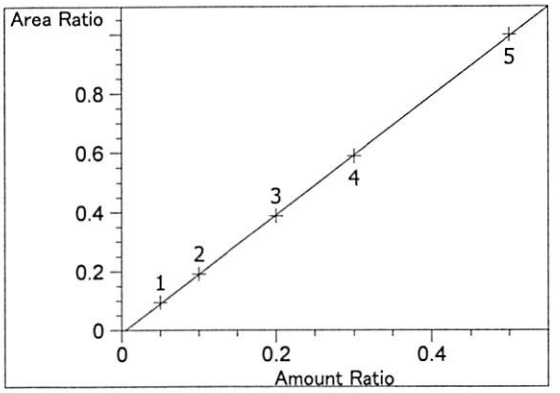
ethanol at exp. RT: 3.075
FID1 A, Front Signal
Correlation: 0.99999
Residual Std. Dev.: 0.00185
Formula: y = mx + b
m: 1.94141
b: -2.77479e-3
x: Amount Ratio
y: Area Ratio



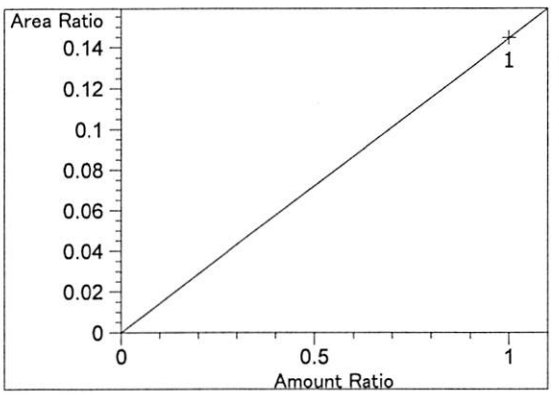
methanol at exp. RT: 3.388
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 9.05570e-2
b: 0.00000
x: Amount Ratio
y: Area Ratio



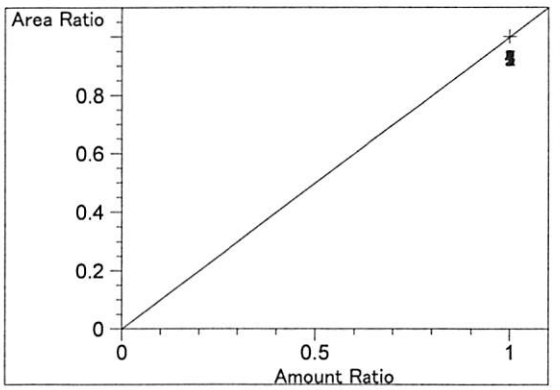
isopropyl alcohol at exp. RT: 3.628
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 2.16373e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio



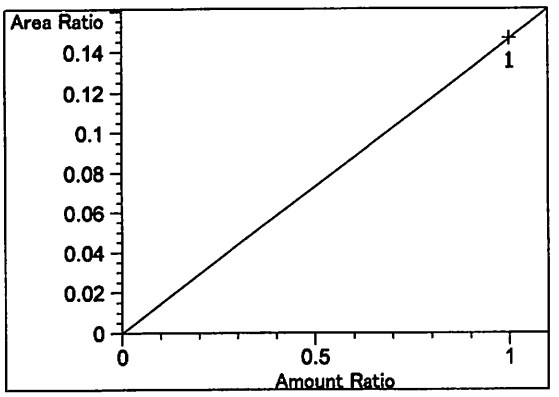
ethanol at exp. RT: 4.285
FID2 B, Back Signal
Correlation: 0.99995
Residual Std. Dev.: 0.00404
Formula: y = mx + b
m: 2.00787
b: -9.82953e-3
x: Amount Ratio
y: Area Ratio



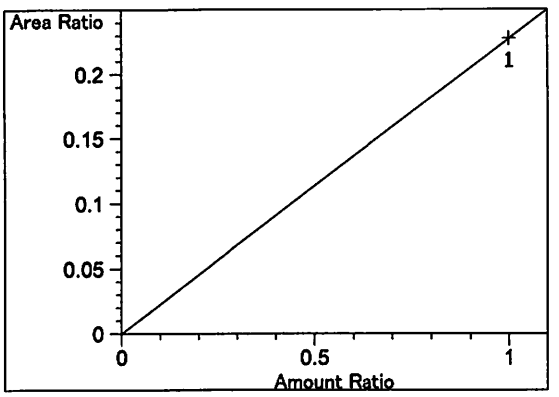
acetone at exp. RT: 4.308
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.44524e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio



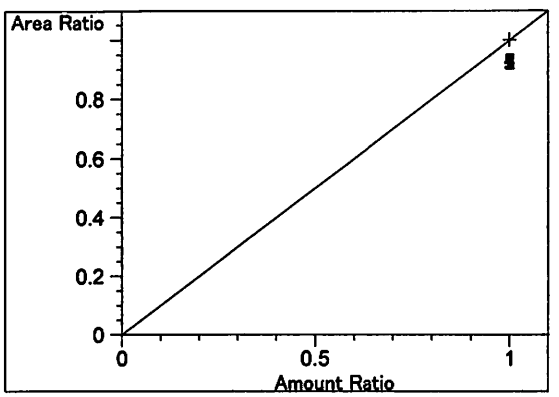
n-propanol at exp. RT: 4.620
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.00000
b: 0.00000
x: Amount Ratio
y: Area Ratio



acetone at exp. RT: 4.661
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.46507e-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: 2.27558e-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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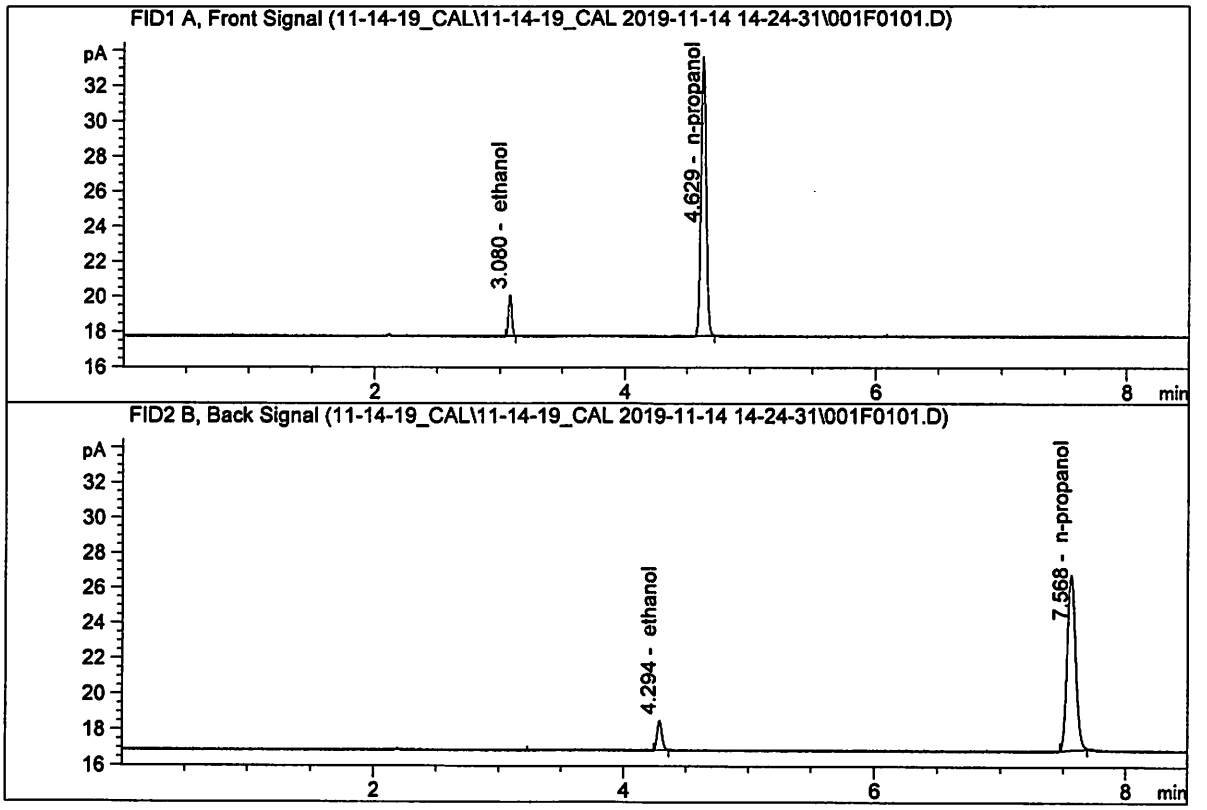
JC

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.050 FN05211804
Laboratory : Meridian
Injection Date : Nov 14, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

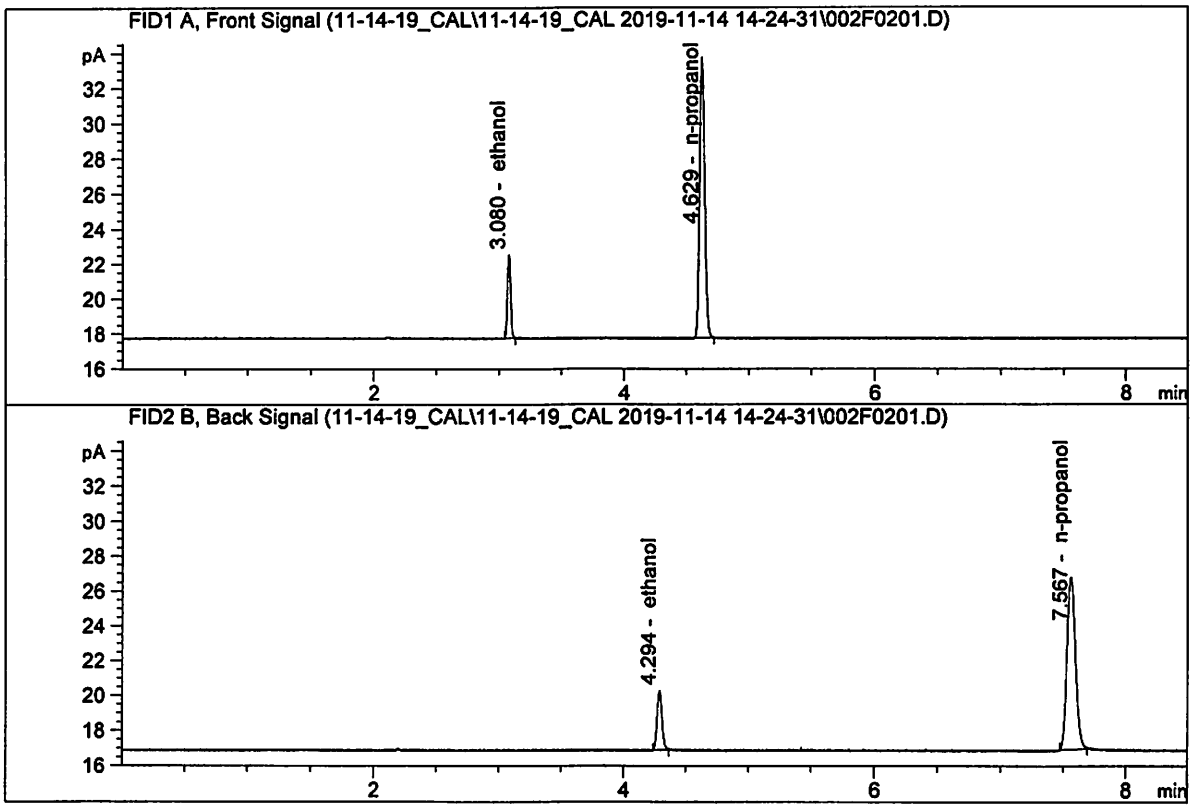


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	4.29843	0.0507	g/100cc
2.	Ethanol	Column 2:	4.43346	0.0518	g/100cc
3.	n-Propanol	Column 1:	44.97118	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.04911	1.0000	g/100cc

JC

ISP Forensic Services Blood Alcohol Report

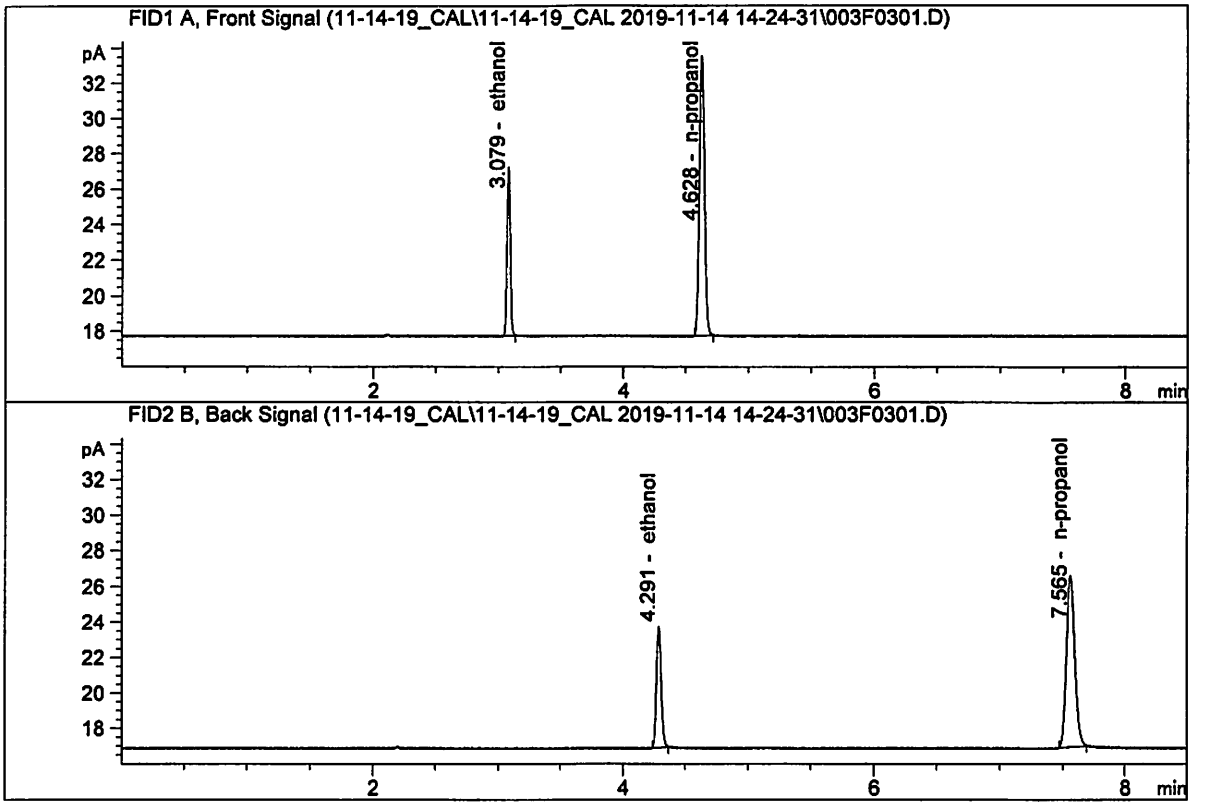
Sample Name : 0.100 FN02271802
Laboratory : Meridian
Injection Date : Nov 14, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	8.68283	0.1002	g/100cc
2.	Ethanol	Column 2:	9.01305	0.1002	g/100cc
3.	n-Propanol	Column 1:	45.30305	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.12088	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.200 FN06231704
Laboratory : Meridian
Injection Date : Nov 14, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

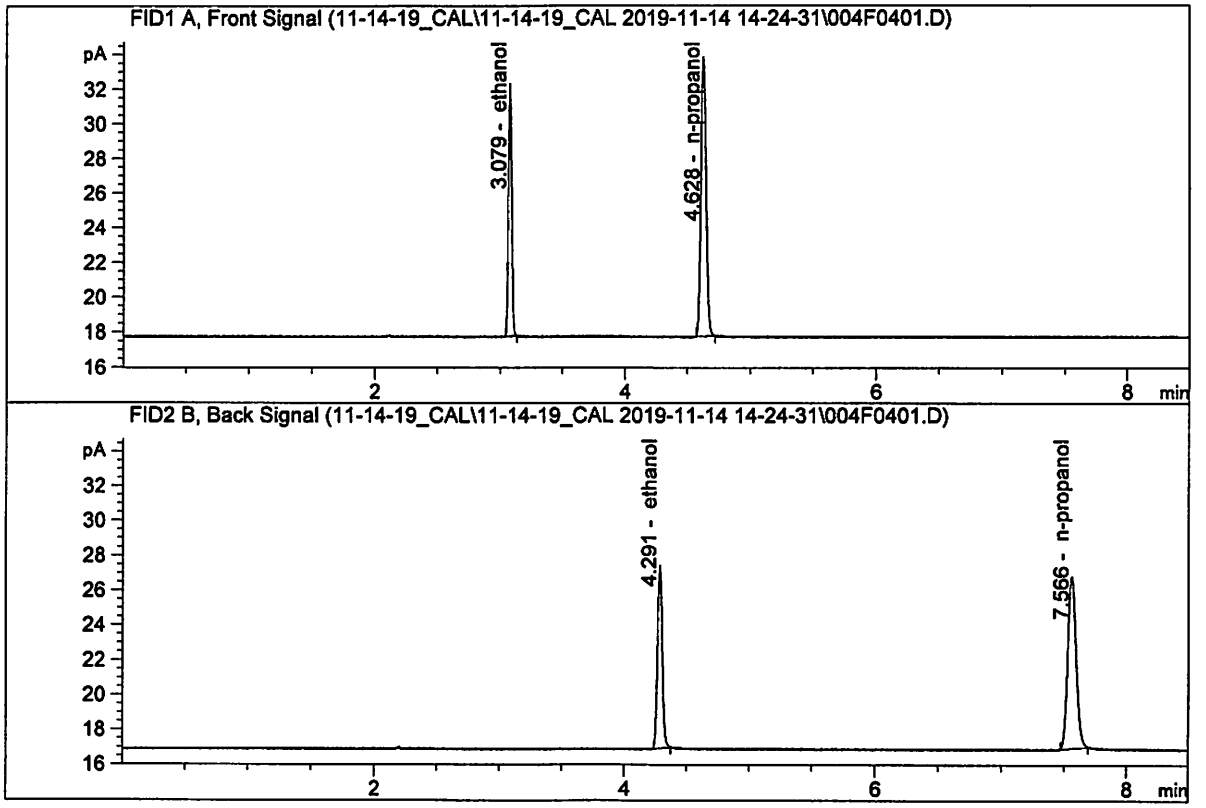


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	17.21634	0.1996	g/100cc
2.	Ethanol	Column 2:	17.98914	0.1983	g/100cc
3.	n-Propanol	Column 1:	44.74408	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.33341	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

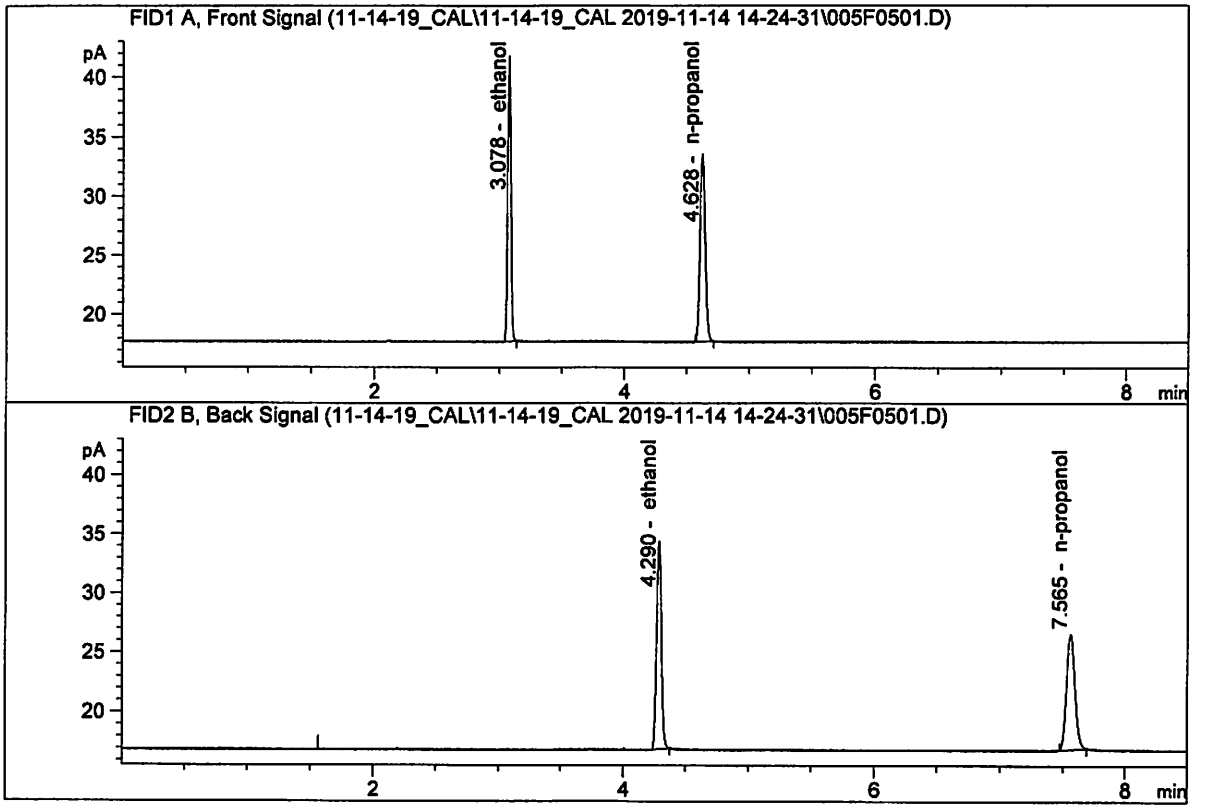
Sample Name : 0.300 FN07311804
Laboratory : Meridian
Injection Date : Nov 14, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	26.38593	0.2988	g/100cc
2.	Ethanol	Column 2:	27.85958	0.2982	g/100cc
3.	n-Propanol	Column 1:	45.70848	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.30963	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.500 FN08031602
Laboratory : Meridian
Injection Date : Nov 14, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	43.45055	0.5008	g/100cc
2.	Ethanol	Column 2:	46.06902	0.5016	g/100cc
3.	n-Propanol	Column 1:	44.81903	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.19559	1.0000	g/100cc

Sequence File C:\Chem32\1\Data\11-14-19_CAL\11-14-19_CAL 2019-11-14 14-24-31\11-14-19_CAL.S

S a m p l e S u m m a r y

Sequence table: C:\Chem32\1\Data\11-14-19_CAL\11-14-19_CAL 2019-11-14 14-24-31\11-14-19_CAL.S
Data directory path: C:\Chem32\1\Data\11-14-19_CAL\11-14-19_CAL 2019-11-14 14-24-31\
Logbook: C:\Chem32\1\Data\11-14-19_CAL\11-14-19_CAL 2019-11-14 14-24-31\11-14-19_CAL.LOG
Sequence start: 11/14/2019 2:39:08 PM
Sequence Operator: SYSTEM
Operator: SYSTEM

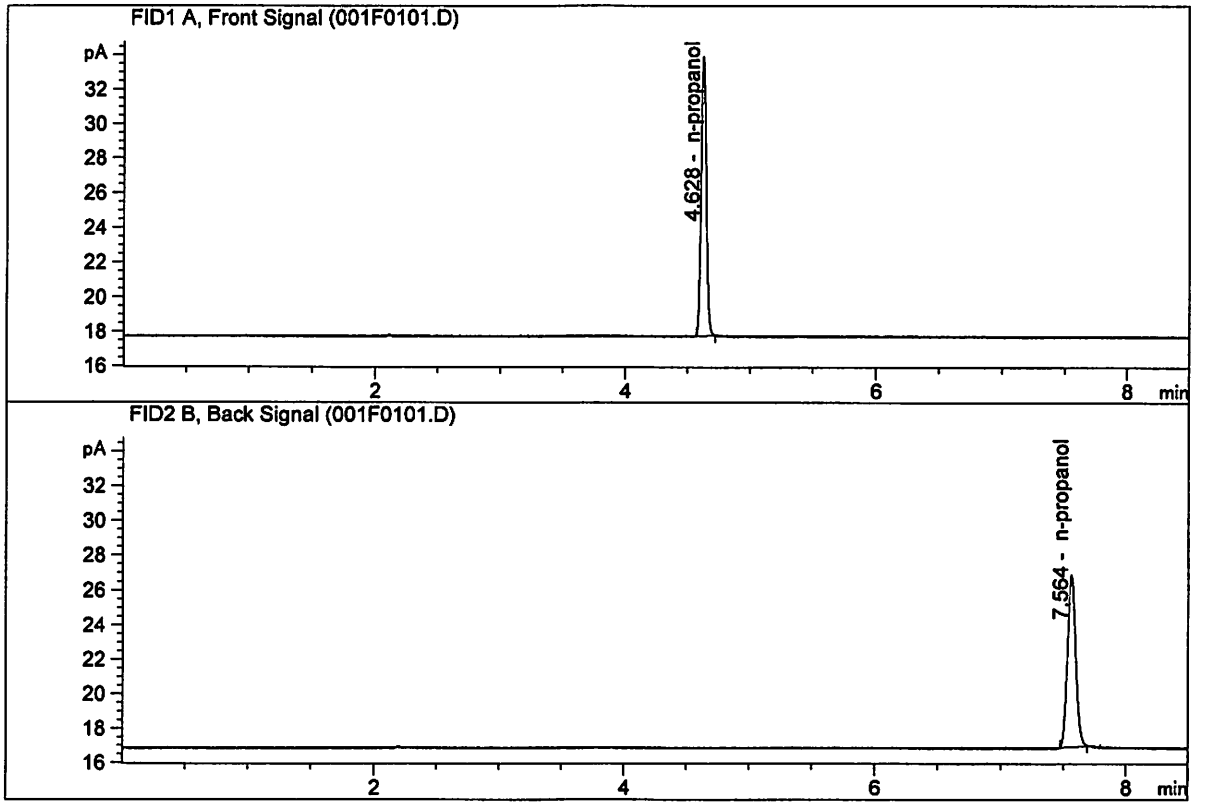
Method file name: C:\Chem32\1\Data\11-14-19_CAL\11-14-19_CAL 2019-11-14 14-24-31\ALCOHOL.M

Run #	Location	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal	# Cmp
1	1	1	0.050 FN05211804	-	1.0000	001F0101.D	*	4
2	2	1	0.100 FN02271802	-	1.0000	002F0201.D	*	4
3	3	1	0.200 FN06231704	-	1.0000	003F0301.D	*	4
4	4	1	0.300 FN07311804	-	1.0000	004F0401.D	*	4
5	5	1	0.500 FN08031602	-	1.0000	005F0501.D	*	4
6	6	1	INTERNAL STANDAR	-	1.0000	006F0601.D		2

16

ISP Forensic Services Blood Alcohol Report

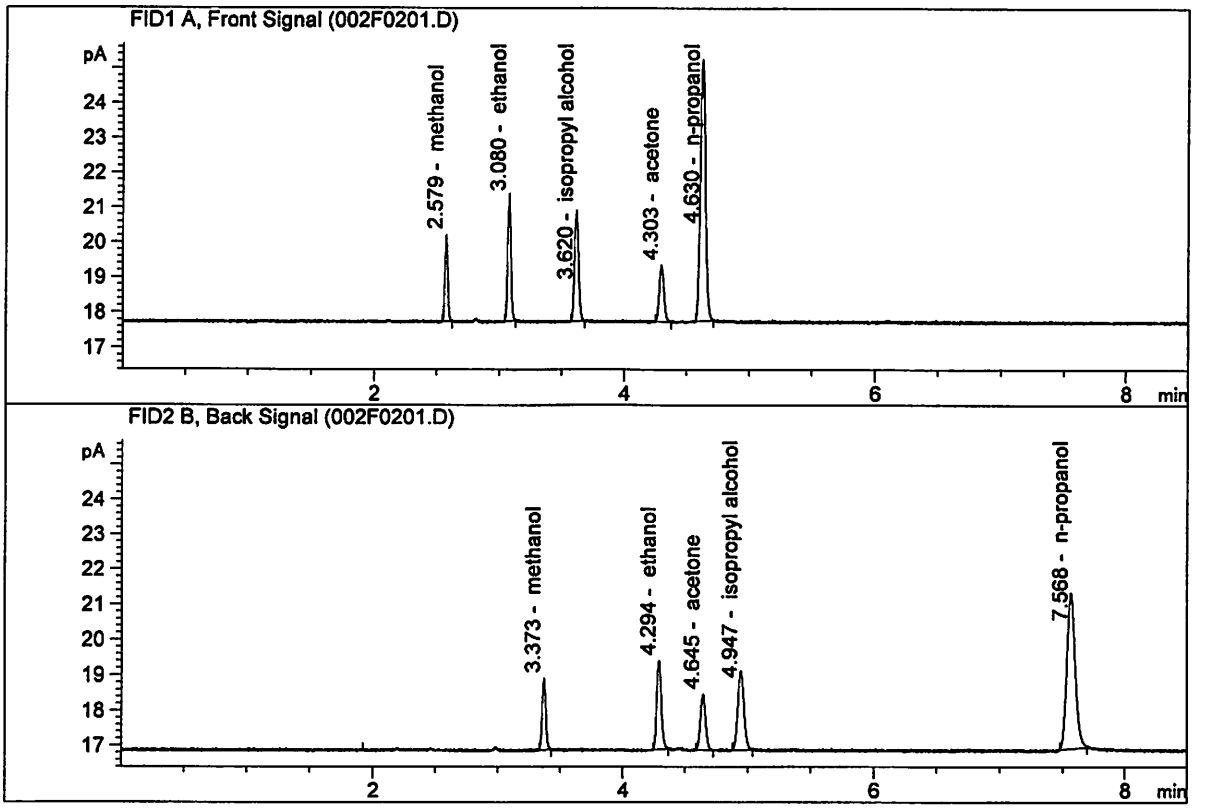
Sample Name : INTERNAL STD BLK 1
Laboratory : Meridian
Injection Date : Nov 14, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	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:	46.01807	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.88237	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : MIX VOL FN06041502
Laboratory : Meridian
Injection Date : Nov 14, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.46353	0.1586	g/100cc
2.	Ethanol	Column 2:	6.68798	0.1603	g/100cc
3.	n-Propanol	Column 1:	21.18657	1.0000	g/100cc
4.	n-Propanol	Column 2:	21.43777	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 0.08 FN04171701 **Analysis Date(s): 14 Nov 2019**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0805	0.0809	0.0004	0.0807	0.0808	
(g/100cc)	0.0807	0.0812	0.0005	0.0809		

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**

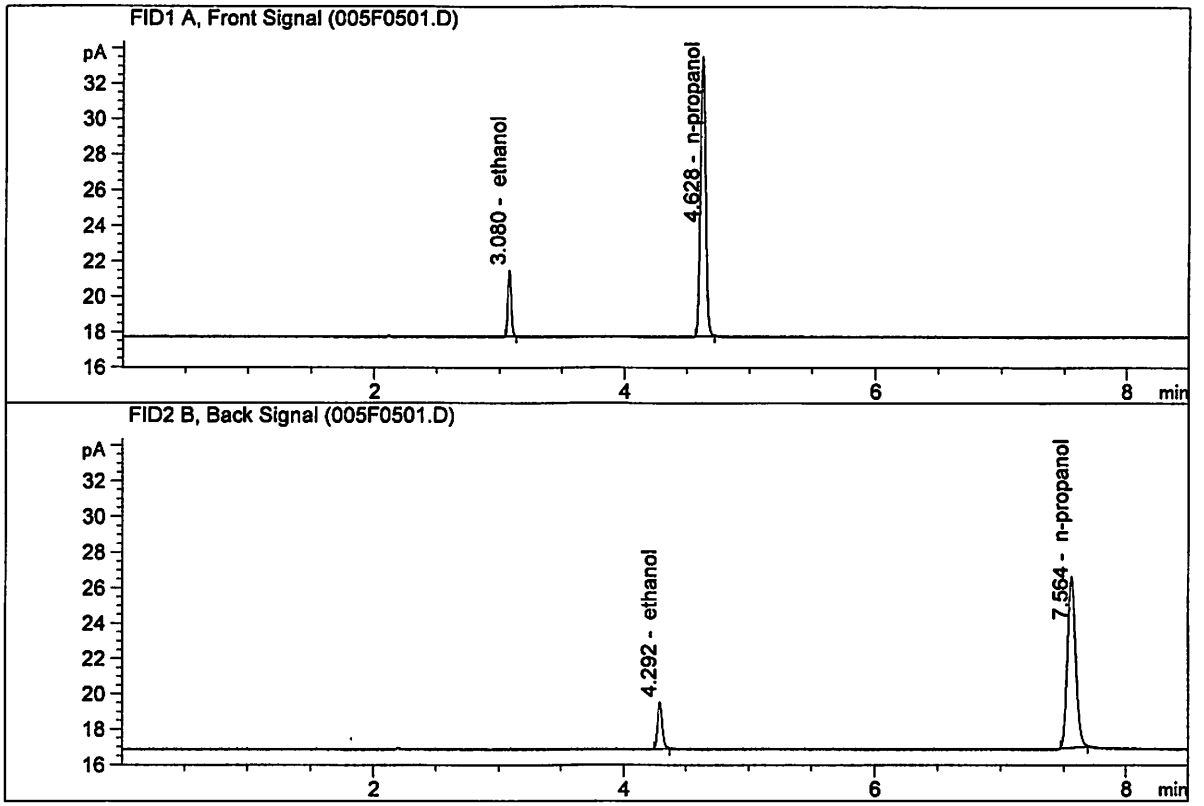
	Reported Result	
	0.080	

Calibration and control data are stored centrally.

JC

ISP Forensic Services Blood Alcohol Report

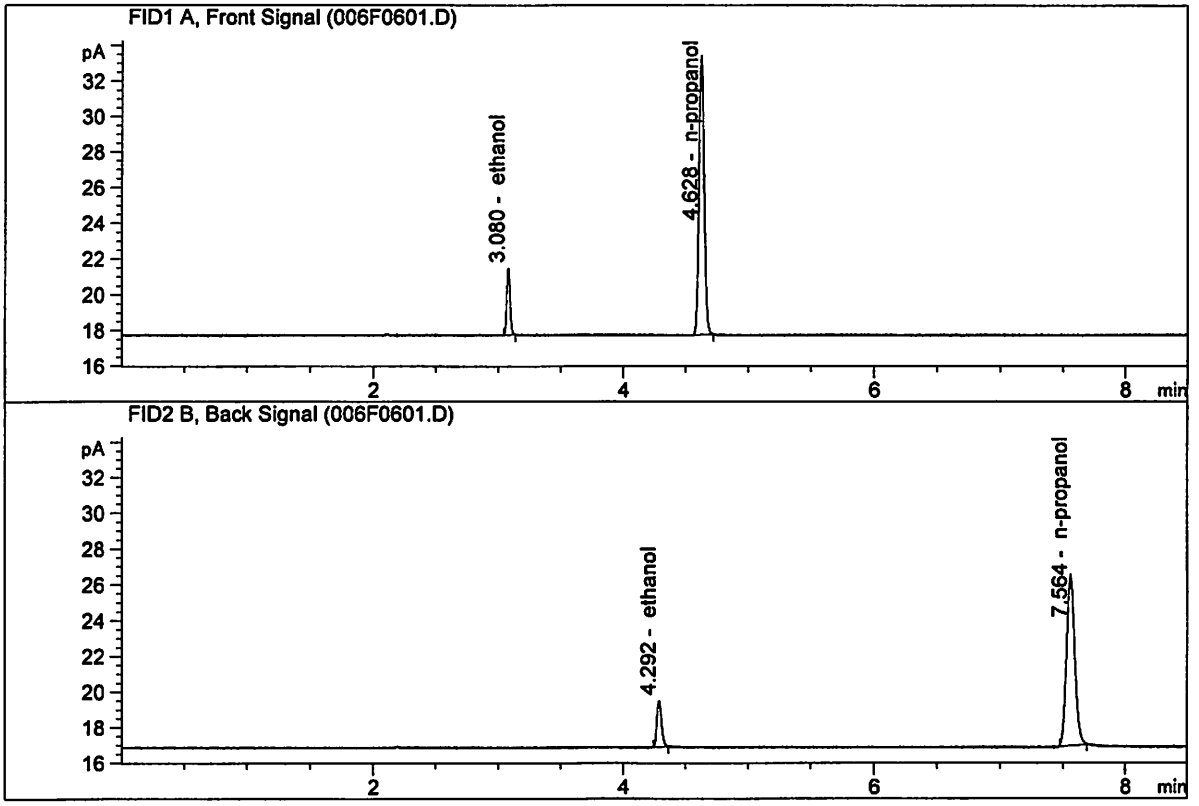
Sample Name : 0.08 FN04171701-A
Laboratory : Meridian
Injection Date : Nov 14, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.88386	0.0805	g/100cc
2.	Ethanol	Column 2:	7.05754	0.0809	g/100cc
3.	n-Propanol	Column 1:	44.81874	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.23198	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN04171701-B
Laboratory : Meridian
Injection Date : Nov 14, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.85270	0.0807	g/100cc
2.	Ethanol	Column 2:	7.02737	0.0812	g/100cc
3.	n-Propanol	Column 1:	44.54152	1.0000	g/100cc
4.	n-Propanol	Column 2:	45.86705	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-1 **Analysis Date(s): 14 Nov 2019**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0798	0.0805	0.0007	0.0801	0.0800	
(g/100cc)	0.0796	0.0802	0.0006	0.0799		

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**

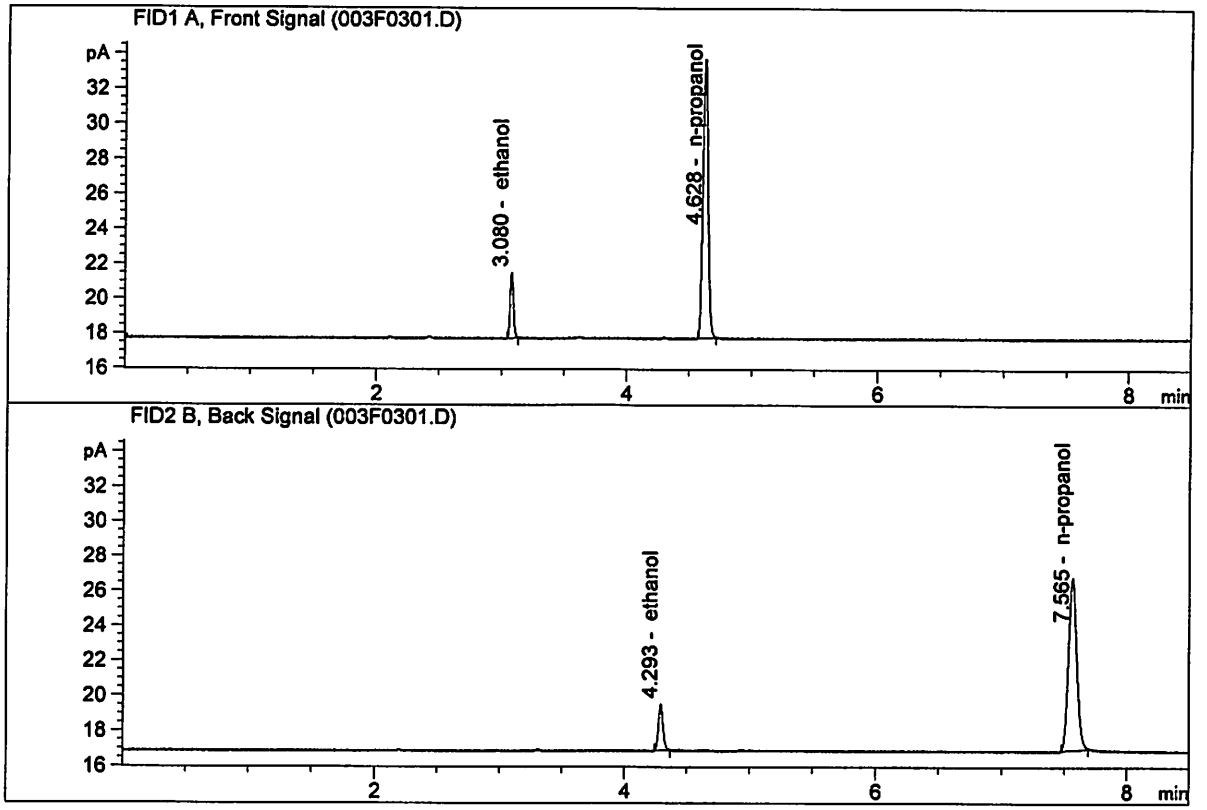
	Reported Result	
	0.080	

Calibration and control data are stored centrally.

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-1-A
Laboratory : Meridian
Injection Date : Nov 14, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

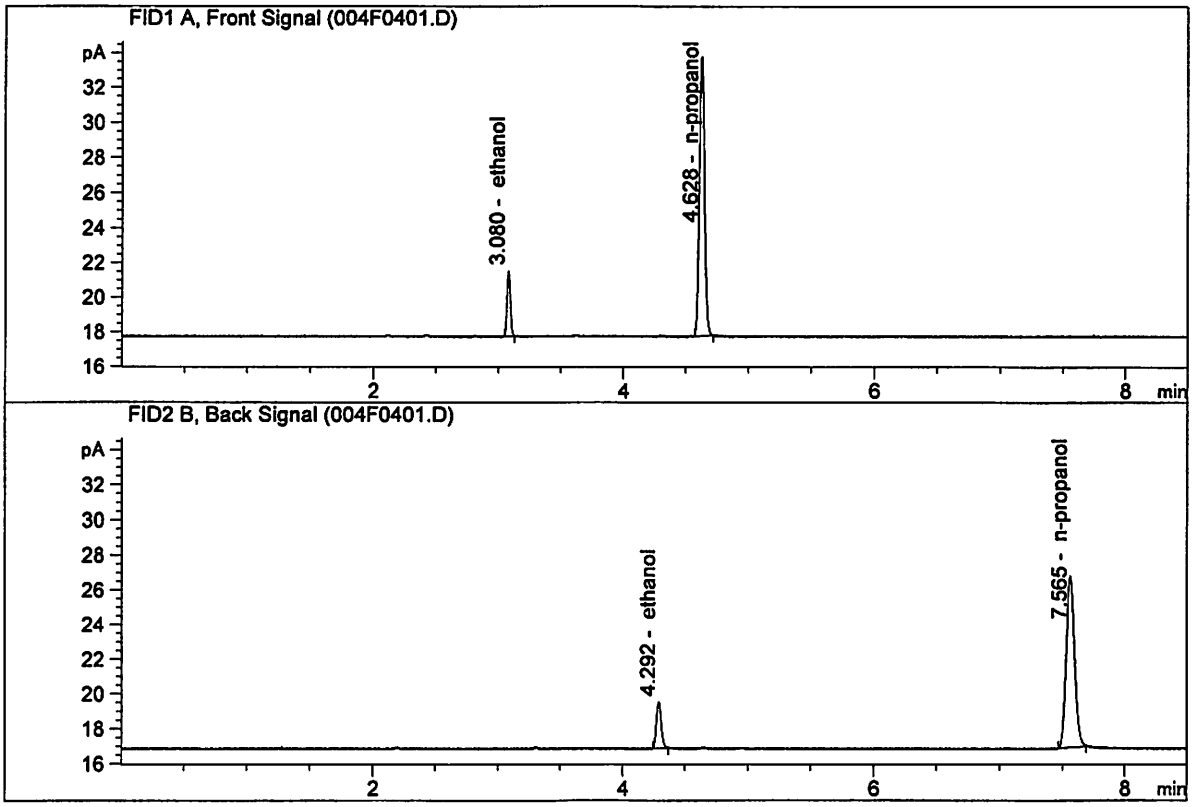


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.91913	0.0798	g/100cc
2.	Ethanol	Column 2:	7.13306	0.0805	g/100cc
3.	n-Propanol	Column 1:	45.49794	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.99567	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-1-B
Laboratory : Meridian
Injection Date : Nov 14, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.93439	0.0796	g/100cc
2.	Ethanol	Column 2:	7.15060	0.0802	g/100cc
3.	n-Propanol	Column 1:	45.69237	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.28761	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: ~~QC2-1~~ QC1-2 **Analysis Date(s): 14 Nov 2019**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0822	0.0824	0.0002	0.0823	0.0821	
(g/100cc)	0.0817	0.0823	0.0006	0.0820		

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
0.082	0.077	0.087	0.005

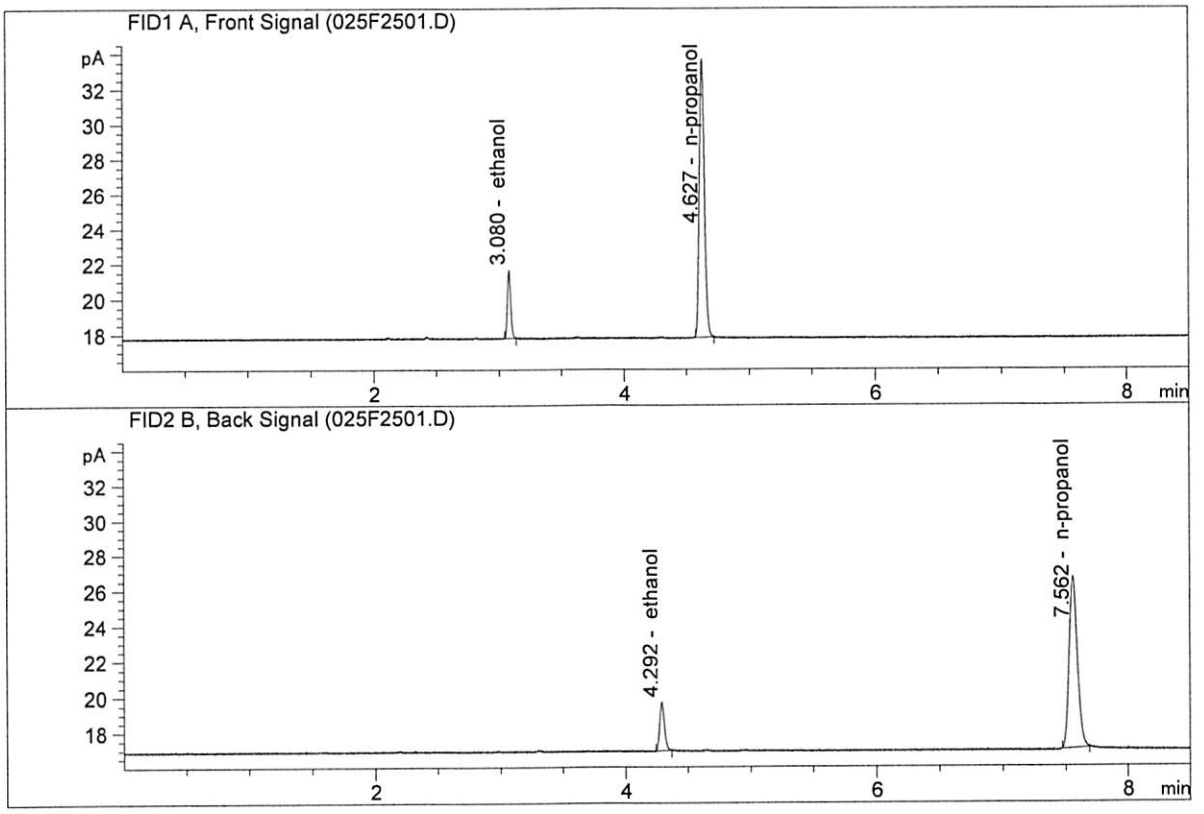
	Reported Result	
	0.082	

Calibration and control data are stored centrally.

JG

ISP Forensic Services Blood Alcohol Report

Sample Name	:	QC1-2-A ~~QC2-1-A~~ JC
Laboratory	:	Meridian
Injection Date	:	Nov 14, 2019
Method	:	ALCOHOL.M
Acq. Instrument	:	CN11180014-CN11041167



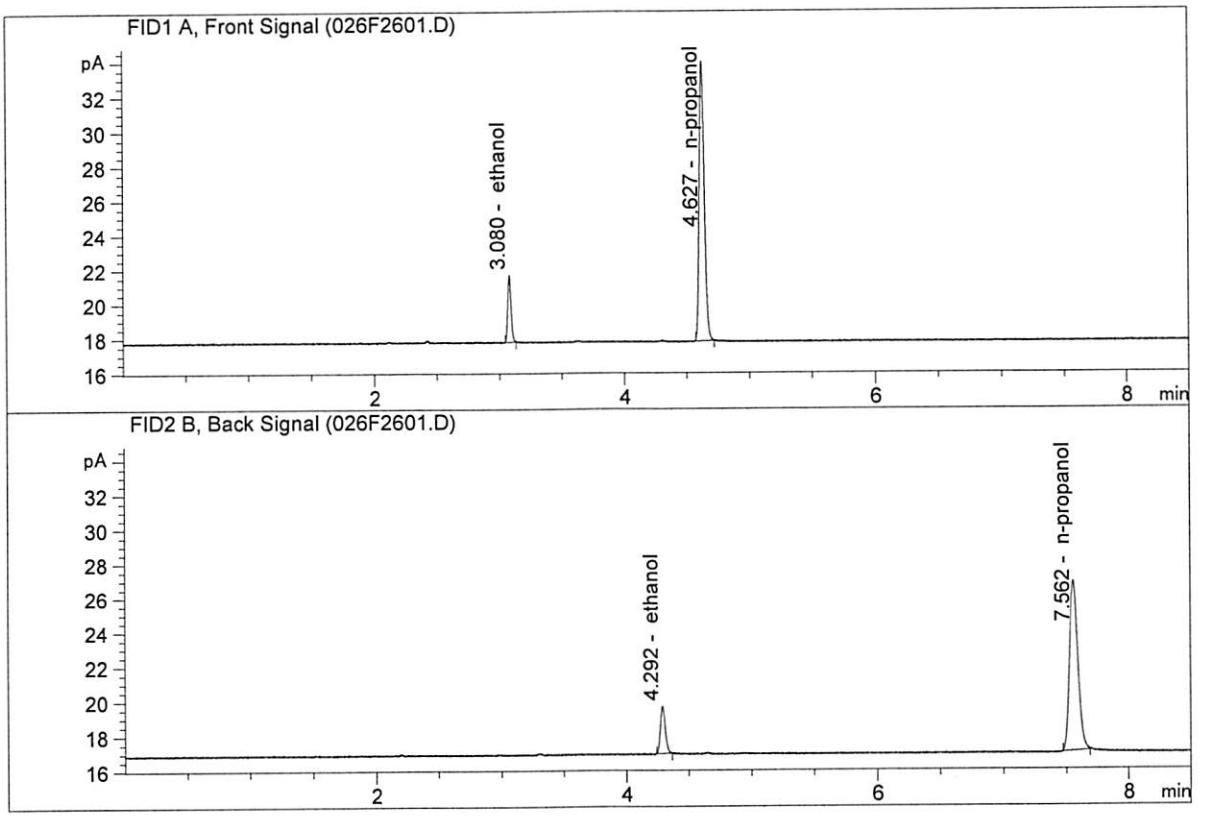
#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.07766	0.0822	g/100cc
2.	Ethanol	Column 2:	7.22003	0.0824	g/100cc
3.	n-Propanol	Column 1:	45.15448	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.39680	1.0000	g/100cc

JC

ISP Forensic Services Blood Alcohol Report

QC1-2-B

Sample Name : ~~QC2-1-B~~ JC
Laboratory : Meridian
Injection Date : Nov 14, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.15688	0.0817	g/100cc
2.	Ethanol	Column 2:	7.34158	0.0823	g/100cc
3.	n-Propanol	Column 1:	45.93594	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.21391	1.0000	g/100cc

JC

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: ~~QC1-2~~ QC2-1 **Analysis Date(s): 15 Nov 2019**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.1982	0.1982	0.0000	0.1982	0.1970	
(g/100cc)	0.1963	0.1956	0.0007	0.1959		

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
0.197	**0.187**	**0.207**	**0.010**

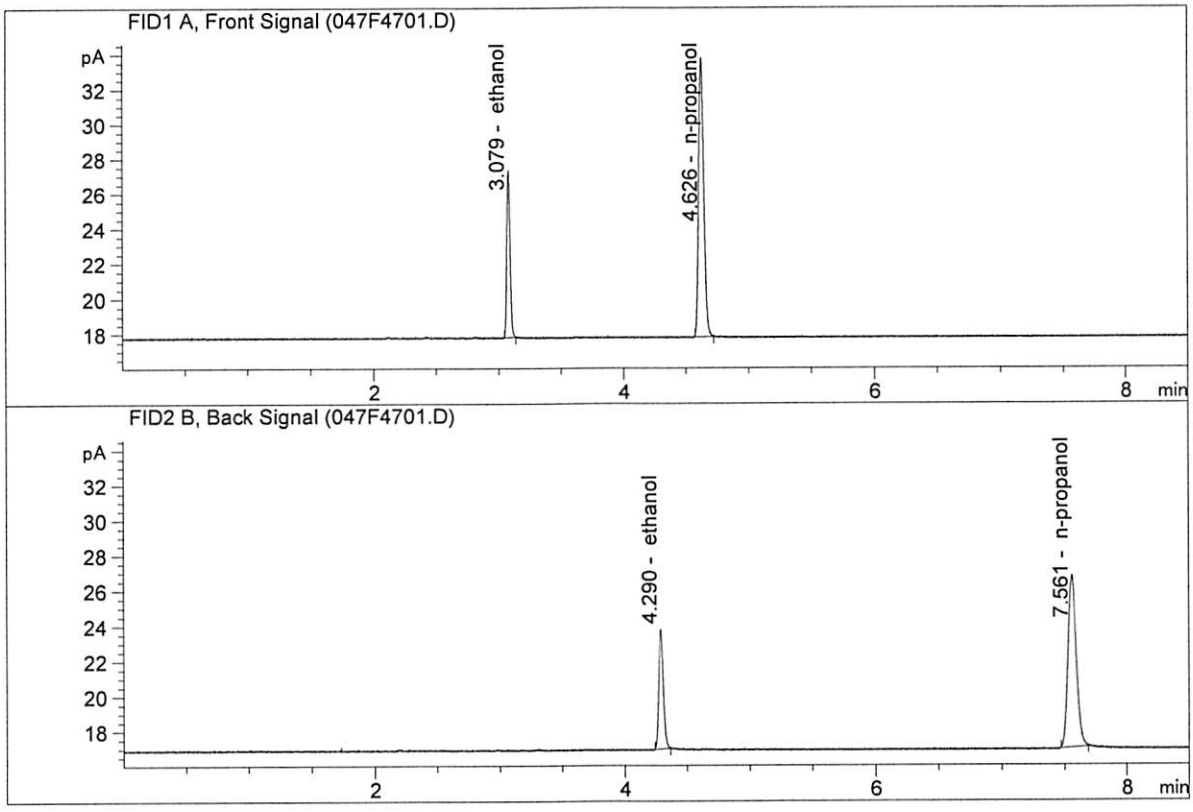
	Reported Result	
	0.197	

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

QC2-1-A

Sample Name : ~~QC1-2-A~~ SL
Laboratory : Meridian
Injection Date : Nov 15, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



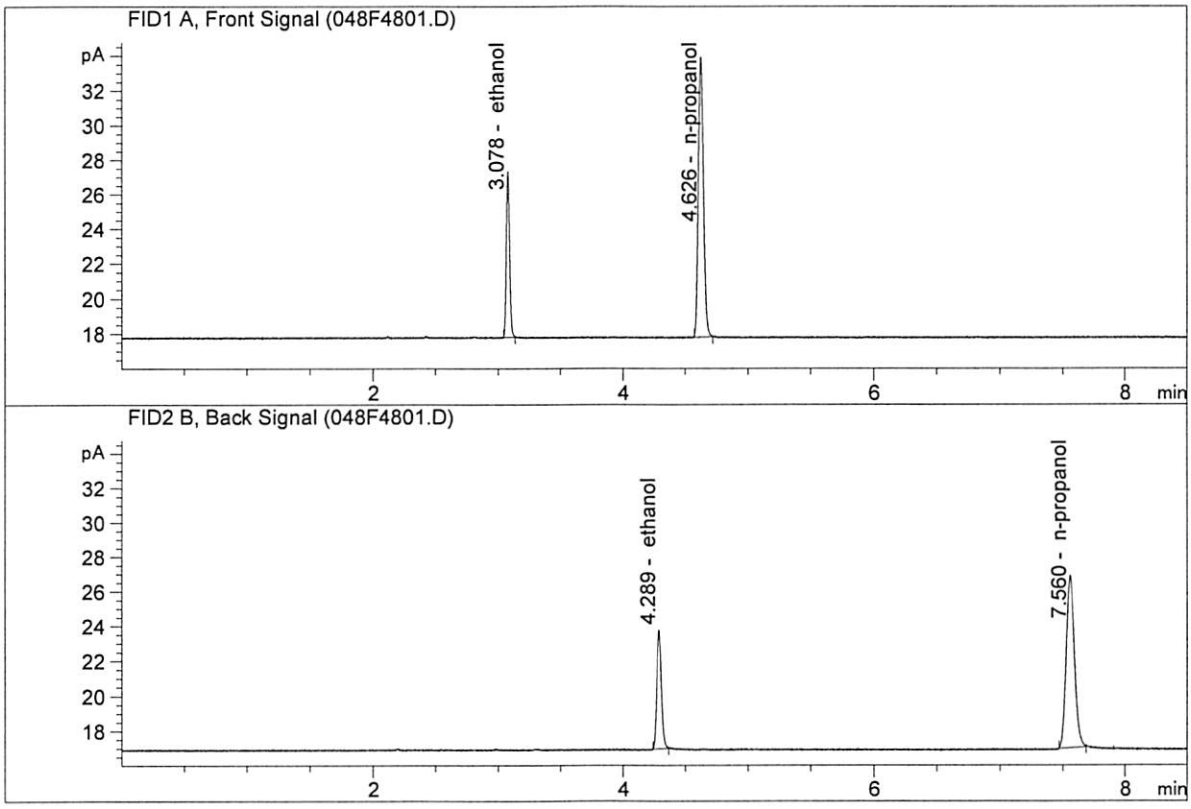
#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	17.38414	0.1982	g/100cc
2.	Ethanol	Column 2:	18.10205	0.1982	g/100cc
3.	n-Propanol	Column 1:	45.50476	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.64198	1.0000	g/100cc

JL

ISP Forensic Services Blood Alcohol Report

QC2-1-B

Sample Name : ~~QC1-2-B~~ JC
Laboratory : Meridian
Injection Date : Nov 15, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	17.35022	0.1963	g/100cc
2.	Ethanol	Column 2:	18.02694	0.1956	g/100cc
3.	n-Propanol	Column 1:	45.86754	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.08218	1.0000	g/100cc

JC

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC2-2 **Analysis Date(s): 15 Nov 2019**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.2006	0.1997	0.0009	0.2001	0.1997	
(g/100cc)	0.1997	0.1990	0.0007	0.1993		

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%**

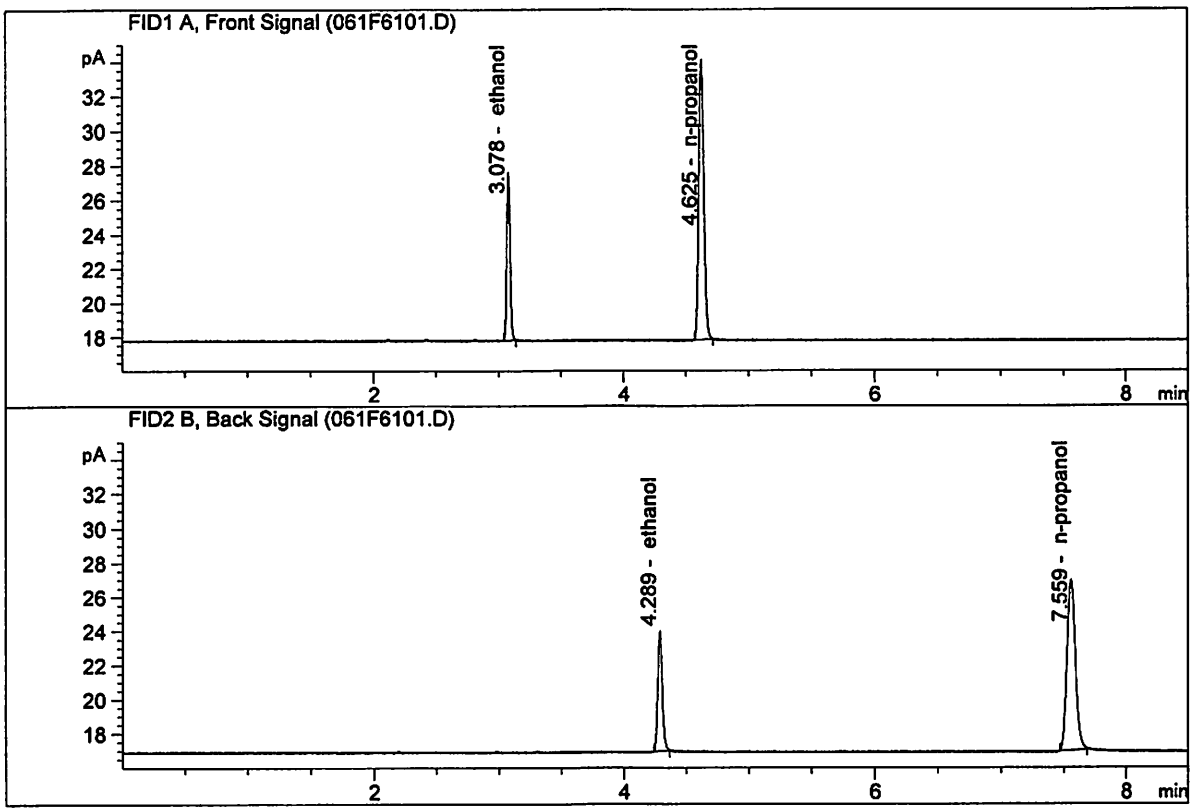
Overall Mean (g/100cc)	Low	High	5% of Mean
0.199	0.189	0.209	0.010

	Reported Result	
	0.199	

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

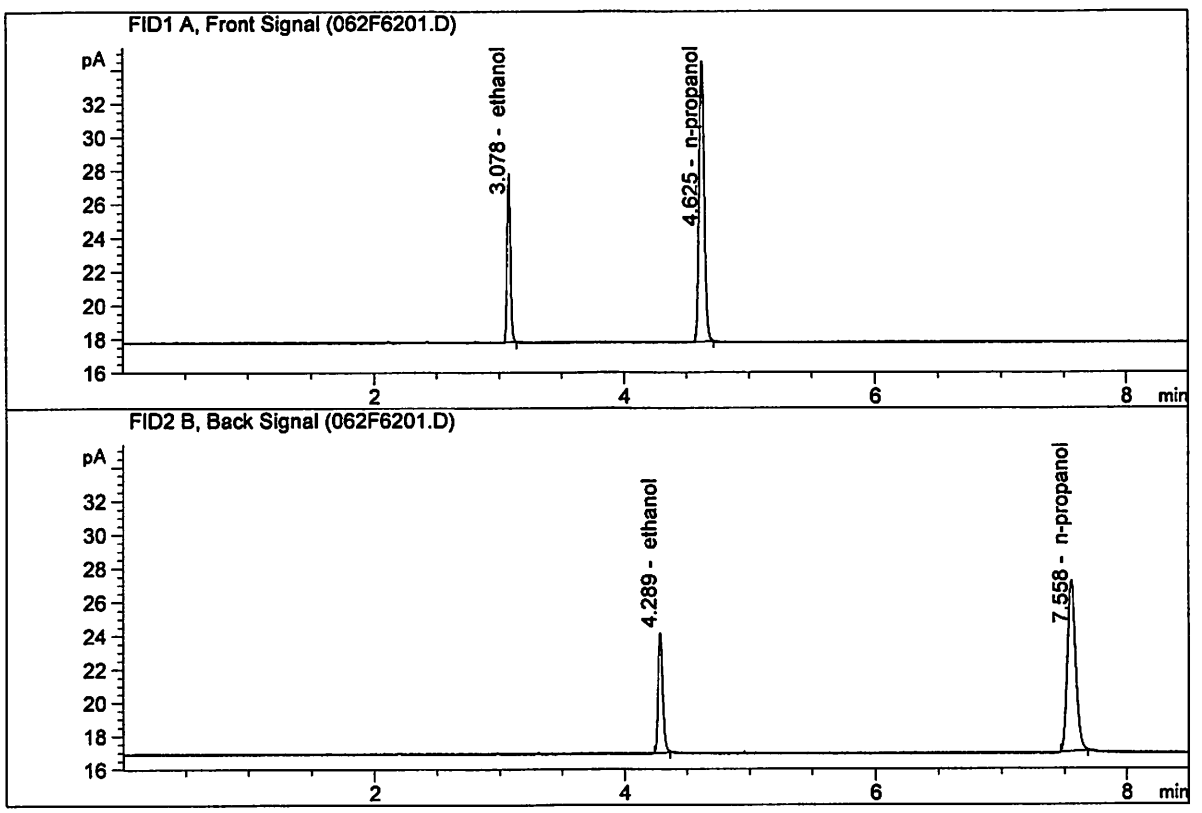
Sample Name : QC2-2-A
Laboratory : Meridian
Injection Date : Nov 15, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	17.95190	0.2006	g/100cc
2.	Ethanol	Column 2:	18.68150	0.1997	g/100cc
3.	n-Propanol	Column 1:	46.43053	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.76416	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

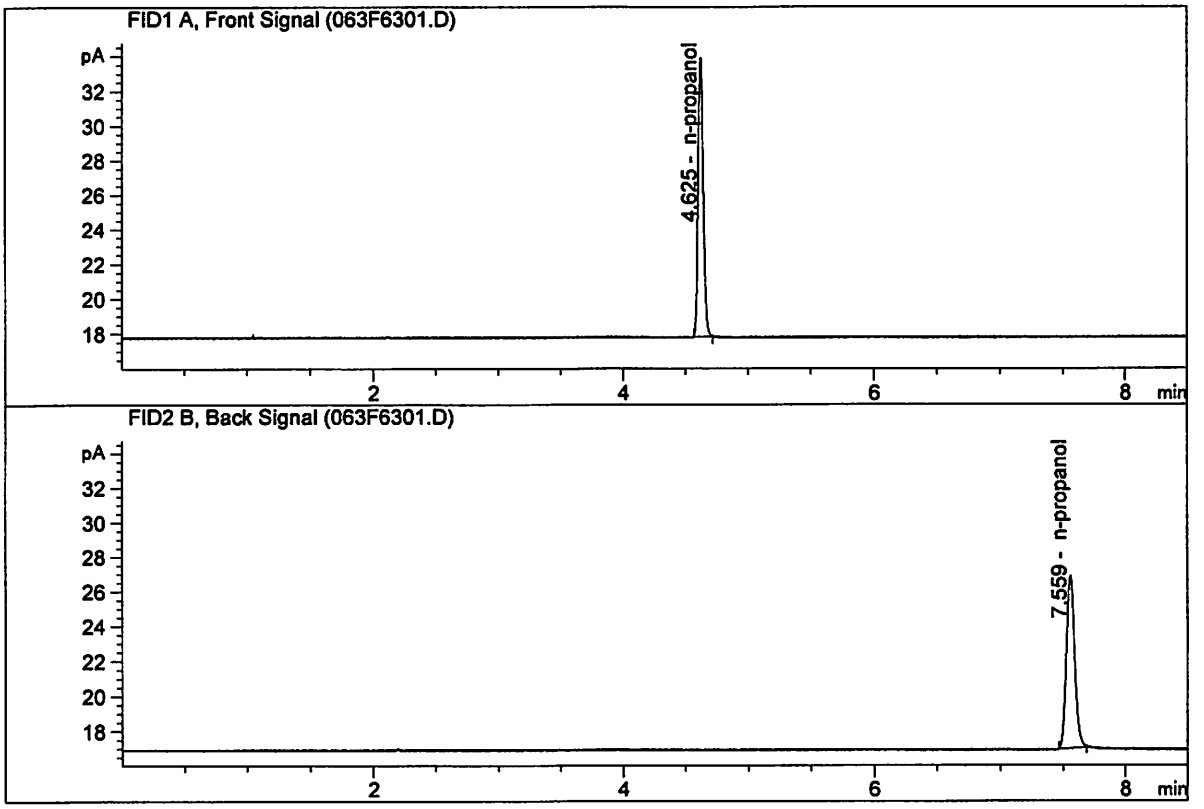
Sample Name : QC2-2-B
Laboratory : Meridian
Injection Date : Nov 15, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.26573	0.1997	g/100cc
2.	Ethanol	Column 2:	19.02437	0.1990	g/100cc
3.	n-Propanol	Column 1:	47.45934	1.0000	g/100cc
4.	n-Propanol	Column 2:	48.80840	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK
Laboratory : Meridian
Injection Date : Nov 15, 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:	45.77080	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.03694	1.0000	g/100cc

JG

Sequence File C:\Chem32\...9_SAMPLES\11-14-19_SAMPLES 2019-11-14 16-04-23\11-14-19_SAMPLES.S

Sample Summary

Sequence table: C:\Chem32\1\Data\11-14-19_SAMPLES\11-14-19_SAMPLES 2019-11-14 16-04-23\11 14-19_SAMPLES.S
Data directory path: C:\Chem32\1\Data\11-14-19_SAMPLES\11-14-19_SAMPLES 2019-11-14 16-04-23\
Logbook: C:\Chem32\1\Data\11-14-19_SAMPLES\11-14-19_SAMPLES 2019-11-14 16-04-23\11 14-19_SAMPLES.LOG
Sequence start: 11/14/2019 4:19:09 PM
Sequence Operator: SYSTEM
Operator: SYSTEM

Method file name: C:\Chem32\1\Data\11-14-19_SAMPLES\11-14-19_SAMPLES 2019-11-14 16-04-23 \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	M2019-4916-1-A	-	1.0000	007F0701.D	4
8	8	1	M2019-4916-1-B	-	1.0000	008F0801.D	4
9	9	1	M2019-4926-1--A	-	1.0000	009F0901.D	4
10	10	1	M2019-~~45926-1-B~~ 4926-1-B	-	1.0000	010F1001.D	4
11	11	1	M2019-4927-1-A	-	1.0000	011F1101.D	2
12	12	1	M2019-4927-1-B	-	1.0000	012F1201.D	2
13	13	1	M2019-4928-1-A	-	1.0000	013F1301.D	4
14	14	1	M2019-4928-1-B	-	1.0000	014F1401.D	4
15	15	1	M2019-4929-1-A	-	1.0000	015F1501.D	4
16	16	1	M2019-4929-1-B	-	1.0000	016F1601.D	4
17	17	1	M2019-4937-1-A	-	1.0000	017F1701.D	4
18	18	1	M2019-4937-1-B	-	1.0000	018F1801.D	4
19	19	1	M2019-4938-1-A	-	1.0000	019F1901.D	2
20	20	1	M2019-4938-1-B	-	1.0000	020F2001.D	2
21	21	1	M2019-4938-2-A	-	1.0000	021F2101.D	2
22	22	1	M2019-4938-2-B	-	1.0000	022F2201.D	2
23	23	1	M2019-4939-1-A	-	1.0000	023F2301.D	4
24	24	1	M2019-4939-1-B	-	1.0000	024F2401.D	4
25	25	1	~~QC2-1-A~~ QC1-2-A	-	1.0000	025F2501.D	4
26	26	1	~~QC2-1-B~~ QC1-2-B	-	1.0000	026F2601.D	4
27	27	1	M2019-4940-1-A	-	1.0000	027F2701.D	4
28	28	1	M2019-4940-1-B	-	1.0000	028F2801.D	4
29	29	1	M2019-4954-1-A	-	1.0000	029F2901.D	4
30	30	1	M2019-4954-1-B	-	1.0000	030F3001.D	4
31	31	1	M2019-4964-1-A	-	1.0000	031F3101.D	4
32	32	1	M2019-4964-1-B	-	1.0000	032F3201.D	4
33	33	1	M2019-4983-1-A	-	1.0000	033F3301.D	4
34	34	1	M2019-4983-1-B	-	1.0000	034F3401.D	4
35	35	1	M2019-4991-1-A	-	1.0000	035F3501.D	4
36	36	1	M2019-4991-1-B	-	1.0000	036F3601.D	4
37	37	1	M2019-4998-1-A	-	1.0000	037F3701.D	4
38	38	1	M2019-4998-1-B	-	1.0000	038F3801.D	4
39	39	1	M2019-5014-1-A	-	1.0000	039F3901.D	4
40	40	1	M2019-5014-1-B	-	1.0000	040F4001.D	4
41	41	1	M2019-5015-1-A	-	1.0000	041F4101.D	4
42	42	1	M2019-5015-1-B	-	1.0000	042F4201.D	4
43	43	1	M2019-5016-1-A	-	1.0000	043F4301.D	2

JC

Sequence File C:\Chem32\...9_SAMPLES\11-14-19_SAMPLES 2019-11-14 16-04-23\11-14-19_SAMPLES.S

Run #	Location #	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal # Cmp
44	44	1	M2019-5016-1-B	-	1.0000	044F4401.D	2
45	45	1	M2019-5040-1-A	-	1.0000	045F4501.D	4
46	46	1	M2019-5040-1-B	-	1.0000	046F4601.D	4
47	47	1	~~QC1-2-A~~ QC 2-1-A	-	1.0000	047F4701.D	4
48	48	1	~~QC1-2-B~~ QC-2-1-B	-	1.0000	048F4801.D	4
49	49	1	M2019-5041-1-A	-	1.0000	049F4901.D	4
50	50	1	M2019-5041-1-B	-	1.0000	050F5001.D	4
51	51	1	M2019-5048-1-A	-	1.0000	051F5101.D	4
52	52	1	M2019-5048-1-B	-	1.0000	052F5201.D	4
53	53	1	M2019-5049-1-A	-	1.0000	053F5301.D	4
54	54	1	M2019-5049-1-B	-	1.0000	054F5401.D	4
55	55	1	M2019-5050-1-A	-	1.0000	055F5501.D	4
56	56	1	M2019-5050-1-B	-	1.0000	056F5601.D	4
57	57	1	M2019-5091-1-A	-	1.0000	057F5701.D	2
58	58	1	M2019-5091-1-B	-	1.0000	058F5801.D	2
59	59	1	M2019-5092-1-A	-	1.0000	059F5901.D	4
60	60	1	M2019-5092-1-B	-	1.0000	060F6001.D	4
61	61	1	QC2-2-A	-	1.0000	061F6101.D	4
62	62	1	QC2-2-B	-	1.0000	062F6201.D	4
63	63	1	INTERNAL STD BLK	-	1.0000	063F6301.D	2

Method file name: C:\Chem32\1\Data\11-14-19_SAMPLES\11-14-19_SAMPLES 2019-11-14 16-04-23\SHUTDOWN.M

Run #	Location #	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal # Cmp
64	64	1	EMPTY	-	1.0000	064F6401.D	0

JG

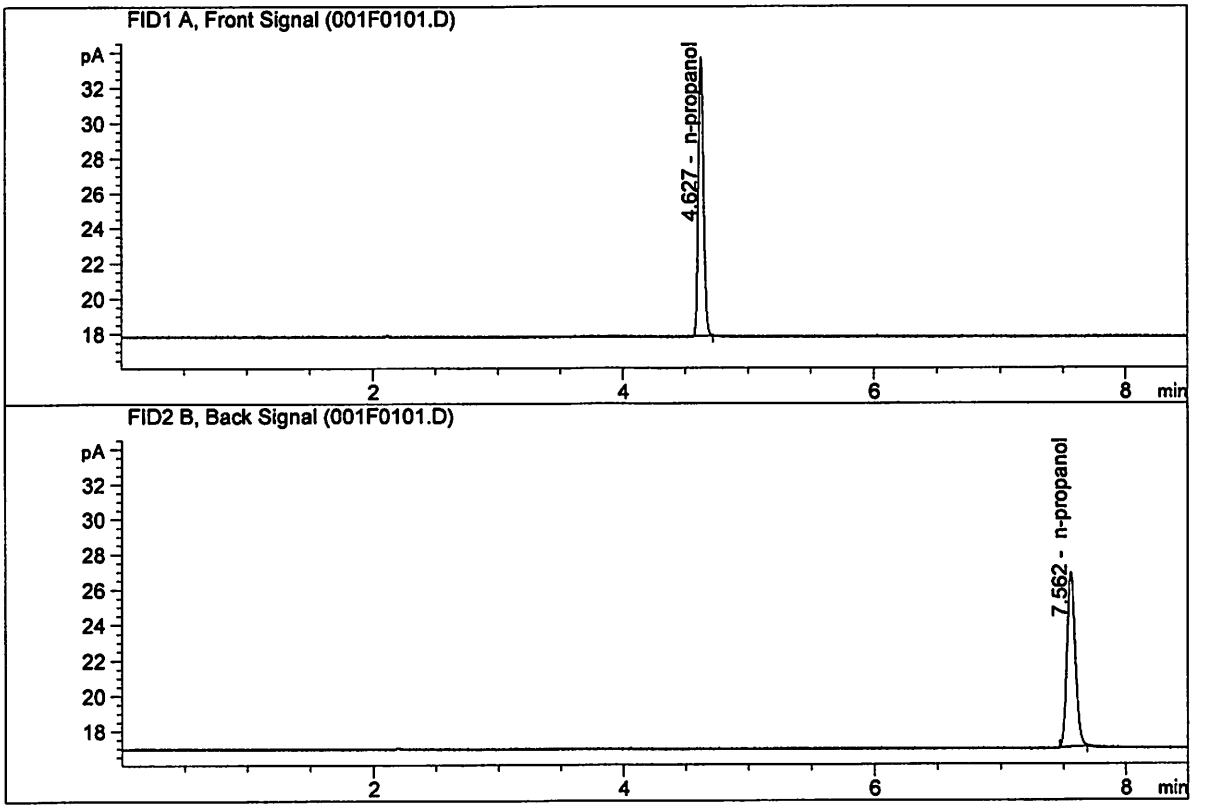
4.2.2 Analysis Run Control and Blank Requirements

4.2.2.1 Initial Run with Calibration Curve

For a run with a newly established calibration curve, an ethanol containing control must precede the first 10 samples (20 vials). The control must be run in duplicate. An additional control must be run at the end of the quantitative samples being analyzed so that the samples are bracketed by ethanol containing control samples.

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK 1
Laboratory : Meridian
Injection Date : Nov 15, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

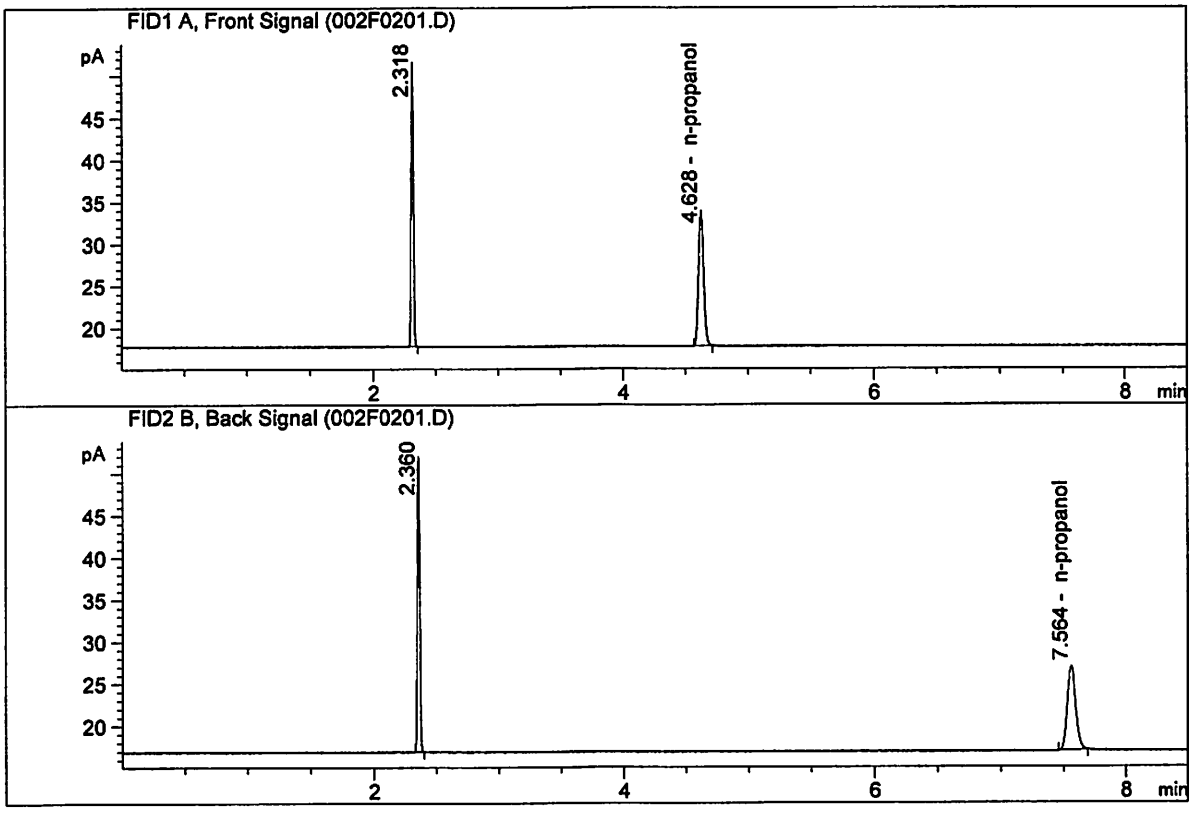


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	45.09971	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.39117	1.0000	g/100cc

JC

ISP Forensic Services Blood Alcohol Report

Sample Name : DFE 111914OM
Laboratory : Meridian
Injection Date : Nov 15, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

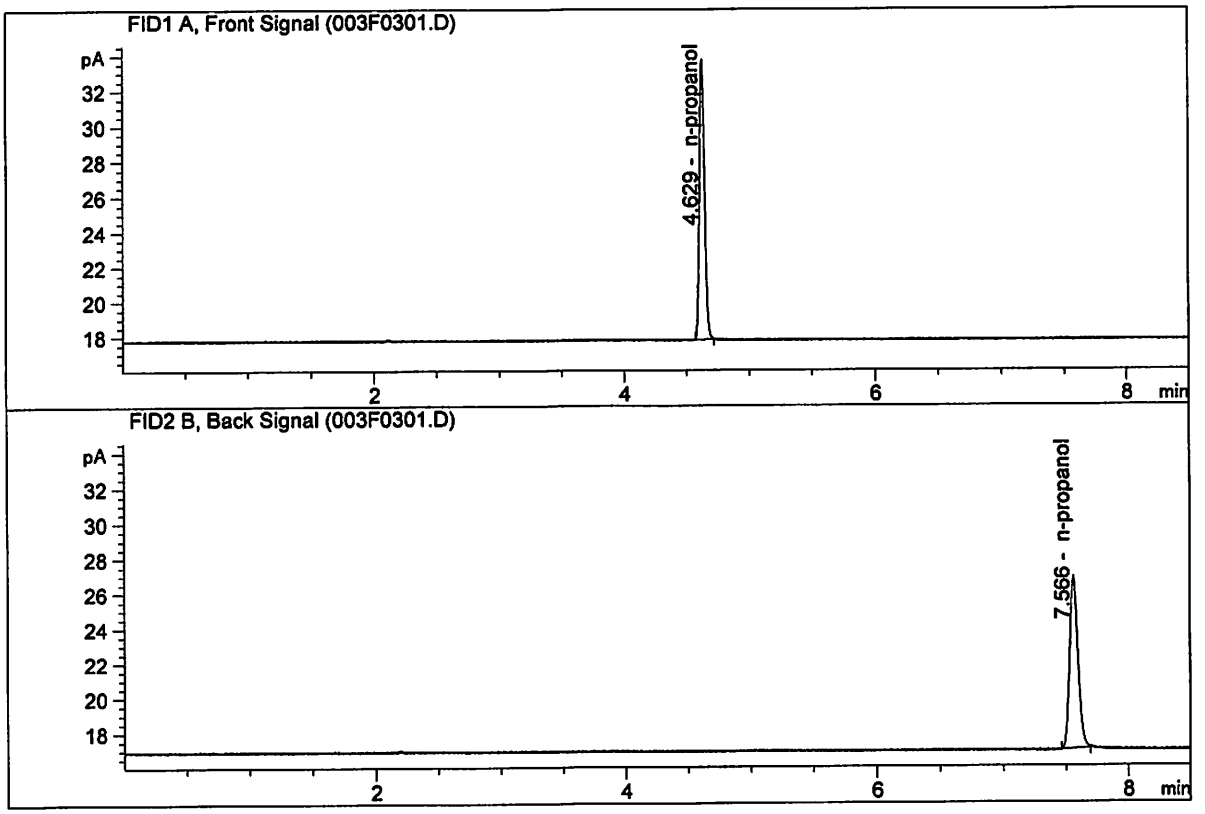


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	45.63269	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.72495	1.0000	g/100cc

JC

ISP Forensic Services Blood Alcohol Report

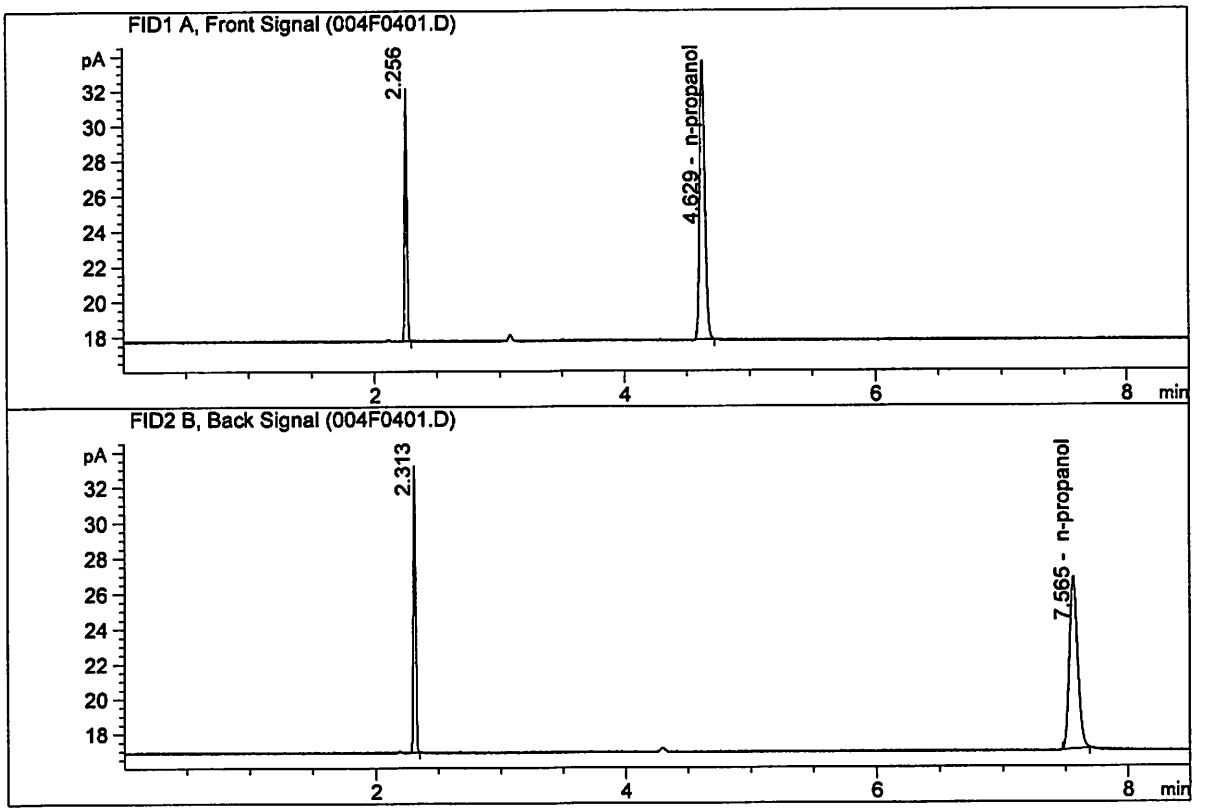
Sample Name : INTERNAL STD BLK
Laboratory : Meridian
Injection Date : Nov 15, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	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:	45.46302	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.51880	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : TFE 111914
Laboratory : Meridian
Injection Date : Nov 15, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

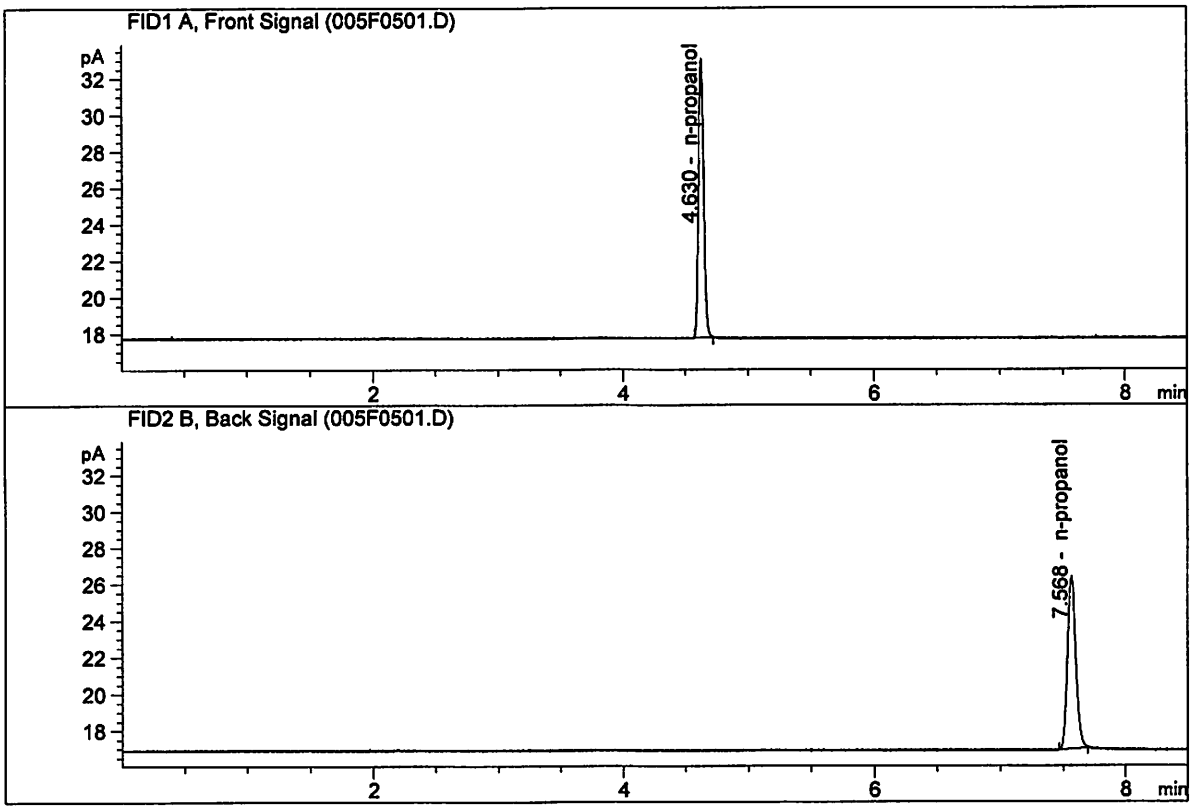


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	45.30719	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.09246	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK
Laboratory : Meridian
Injection Date : Nov 15, 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:	43.49112	1.0000	g/100cc
4.	n-Propanol	Column 2:	45.13968	1.0000	g/100cc

Sequence File C:\Chem32\1\Data\11-15-19_INH\11-15-19_INH 2019-11-15 15-48-53\11-15-19_INH.S

S a m p l e S u m m a r y

Sequence table: C:\Chem32\1\Data\11-15-19_INH\11-15-19_INH 2019-11-15 15-48-53\11-15-19_INH.S
Data directory path: C:\Chem32\1\Data\11-15-19_INH\11-15-19_INH 2019-11-15 15-48-53\
Logbook: C:\Chem32\1\Data\11-15-19_INH\11-15-19_INH 2019-11-15 15-48-53\11-15-19_INH.LOG
Sequence start: 11/15/2019 4:03:30 PM
Sequence Operator: SYSTEM
Operator: SYSTEM

Method file name: C:\Chem32\1\Data\11-15-19_INH\11-15-19_INH 2019-11-15 15-48-53\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	DFE 111914OM	-	1.0000	002F0201.D		2
3	3	1	INTERNAL STD BLK	-	1.0000	003F0301.D		2
4	4	1	TFE 111914	-	1.0000	004F0401.D		2
5	5	1	INTERNAL STD BLK	-	1.0000	005F0501.D		2

Method file name: C:\Chem32\1\Data\11-15-19_INH\11-15-19_INH 2019-11-15 15-48-53\SHUTDOWN.M

Run #	Location #	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal #	# Cmp
6	6	1	EMPTY	-	1.0000	006F0601.D		0