

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): 12/18/20-12/19/20

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Jul-23	1907006	0.0764	0.0688-0.0840	0.0747 g/100cc 0.0770 g/100cc g/100cc
Level 2	Mar-22	1803028	0.2035	0.1832-0.2238	0.2006 g/100cc 0.2048 g/100cc g/100cc
Multi-Component mixture:					acceptable
Curve Fit:		Column 1	Column 2	Lot # FN07101701	0.99999
				Column2	0.99991

REVIEWED

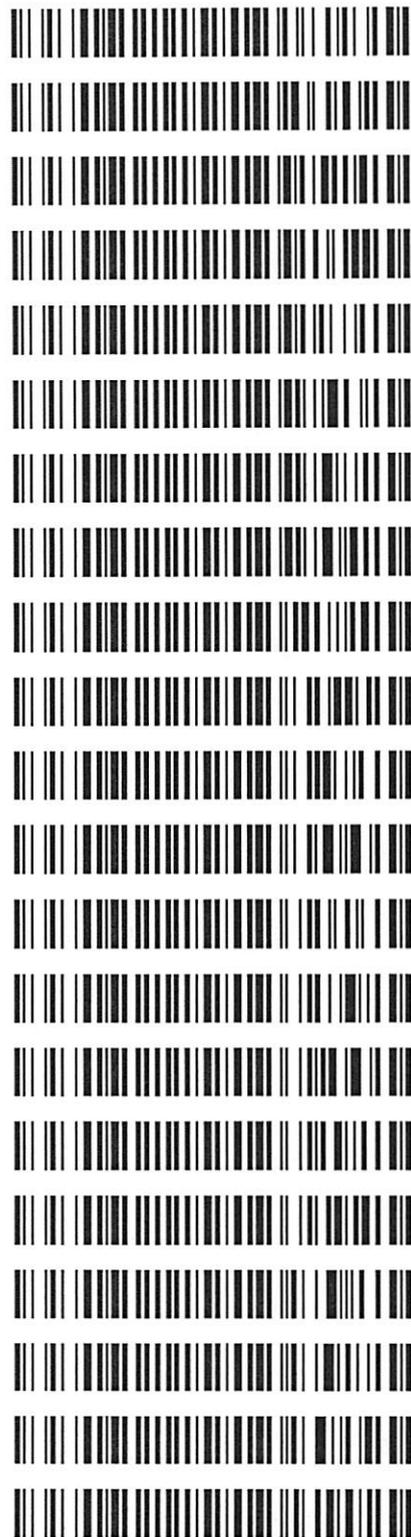
By Galina Giso at 9:14 am, Dec 21, 2020

Ethanol Calibration Reference Material					
Calibrator level	Target Value	Acceptable Range	Column 1	Column 2	Mean
50	0.050	0.045 - 0.055	0.0508	0.0522	0.0515
100	0.100	0.090 - 0.110	0.1002	0.1006	0.1004
200	0.200	0.180 - 0.220	0.1994	0.1979	0.1986
300	0.300	0.270 - 0.330	0.2987	0.2972	0.2979
400	0.400	0.360 - 0.440			#DIV/0!
500	0.500	0.450 - 0.550	0.5009	0.5022	0.5015

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

Worklist: 4684

<u>LAB_CASE</u>	<u>ITEM</u>	<u>ITEM_TYPE</u>	<u>DESCRIPTION</u>
M2020-4781	1	BCK	Alcohol Analysis
M2020-4956	1	BCK	Alcohol Analysis
M2020-4967	1	BCK	Alcohol Analysis
M2020-4970	1	BCK	Alcohol Analysis
M2020-4986	3	BCK	Alcohol Analysis
M2020-5013	1	BCK	Alcohol Analysis
M2020-5014	1	BCK	Alcohol Analysis
M2020-5015	1	BCK	Alcohol Analysis
M2020-5027	1	BCK	Alcohol Analysis
M2020-5042	2	BCK	Alcohol Analysis
M2020-5043	1	BCK	Alcohol Analysis
M2020-5065	1	BCK	Alcohol Analysis
M2020-5081	1	BCK	Alcohol Analysis
M2020-5082	1	BCK	Alcohol Analysis
M2020-5083	1	BCK	Alcohol Analysis
M2020-5084	1	BCK	Alcohol Analysis
M2020-5085	1	CSGEN	Alcohol Analysis
M2020-5110	1	BCK	Alcohol Analysis
M2020-5111	2	BCK	Alcohol Analysis
M2020-5112	1	BCK	Alcohol Analysis
M2020-5129	1	BCK	Alcohol Analysis



NB

Worklist: 4684

<u>LAB_CASE</u>	<u>ITEM</u>	<u>ITEM_TYPE</u>	<u>DESCRIPTION</u>
P2020-3600	1	BCK	Alcohol Analysis



NB

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Calibration Table
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General Calibration Setting

Calib. Data Modified : Friday, December 18, 2020 12:45:12 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

NB

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	4.36020	1.14674e-2	No	No	1 ethanol
		2	1.00000e-1	8.74356	1.14370e-2			
		3	2.00000e-1	17.74107	1.12733e-2			
		4	3.00000e-1	26.81179	1.11891e-2			
		5	5.00000e-1	44.52795	1.12289e-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	4.44083	1.12592e-2	No	No	2 ethanol
		2	1.00000e-1	8.97821	1.11381e-2			
		3	2.00000e-1	18.44912	1.08406e-2			
		4	3.00000e-1	28.13805	1.06617e-2			
		5	5.00000e-1	47.16783	1.06004e-2			
4.308	1	1	1.00000	6.49940	1.53860e-1	No	No	1 acetone
4.620	1	1	1.00000	45.58723	2.19360e-2	No	Yes	1 n-propanol
		2	1.00000	45.63718	2.19120e-2			
		3	1.00000	46.21556	2.16377e-2			
		4	1.00000	46.52719	2.14928e-2			
		5	1.00000	45.98302	2.17472e-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	47.21092	2.11815e-2	No	Yes	2 n-propanol
		2	1.00000	46.71051	2.14085e-2			
		3	1.00000	47.36869	2.11110e-2			
		4	1.00000	47.61769	2.10006e-2			
		5	1.00000	46.85835	2.13409e-2			

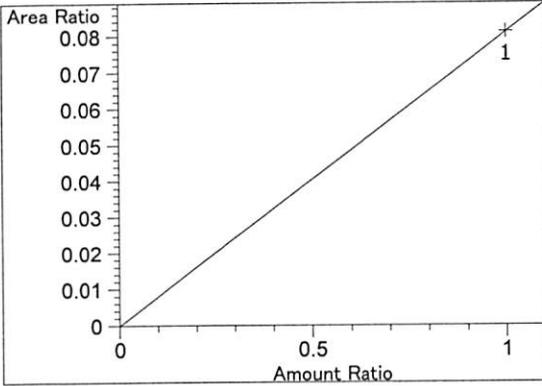
Peak Sum Table

No Entries in table

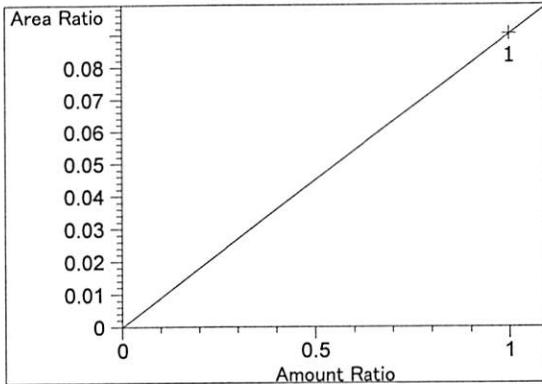
51 Warnings or Errors (10 first messages follow) :

- 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

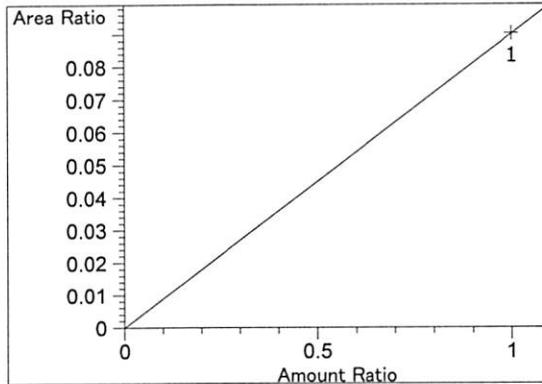
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 Calibration Curves
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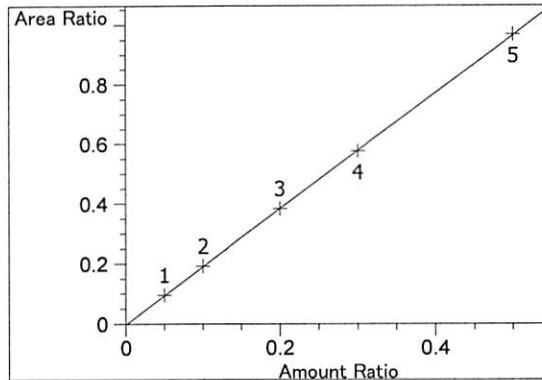
methanol at exp. RT: 2.586
 FID1 A, Front Signal
 Correlation: 1.00000
 Residual Std. Dev.: 0.00000
 Formula: $y = mx + b$
 m: 8.10906e-2
 b: 0.00000
 x: Amount Ratio
 y: Area Ratio



Acetaldehyde at exp. RT: 2.809
 FID1 A, Front Signal
 Correlation: 1.00000
 Residual Std. Dev.: 0.00000
 Formula: $y = mx + b$
 m: 9.02545e-2
 b: 0.00000
 x: Amount Ratio
 y: Area Ratio

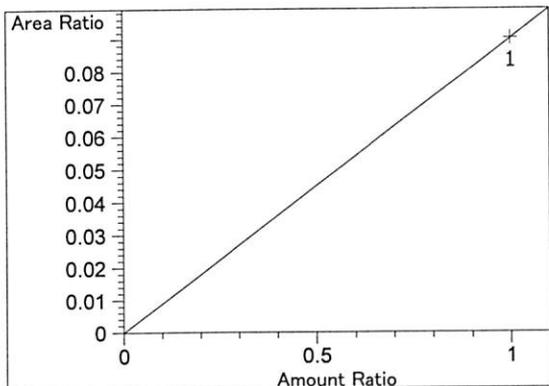


Acetaldehyde at exp. RT: 2.977
 FID2 B, Back Signal
 Correlation: 1.00000
 Residual Std. Dev.: 0.00000
 Formula: $y = mx + b$
 m: 9.02545e-2
 b: 0.00000
 x: Amount Ratio
 y: Area Ratio

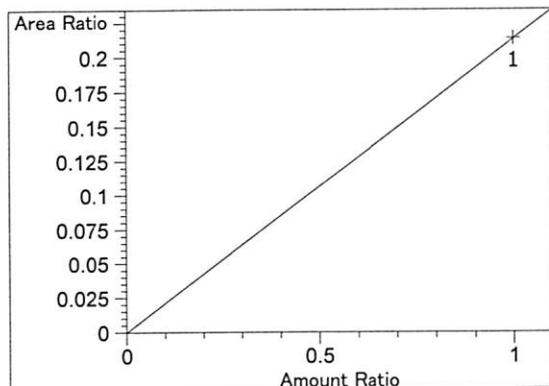


ethanol at exp. RT: 3.075
 FID1 A, Front Signal
 Correlation: 0.99999
 Residual Std. Dev.: 0.00212
 Formula: $y = mx + b$
 m: 1.93871
 b: -2.75897e-3
 x: Amount Ratio
 y: Area Ratio

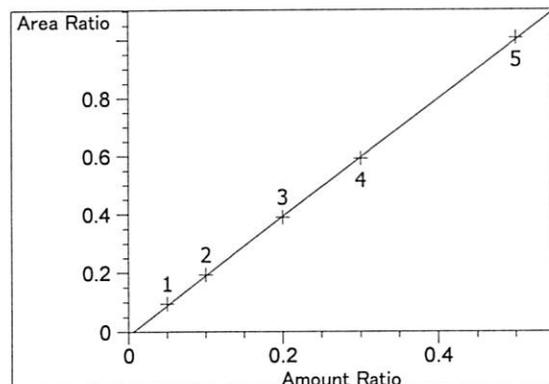
NB



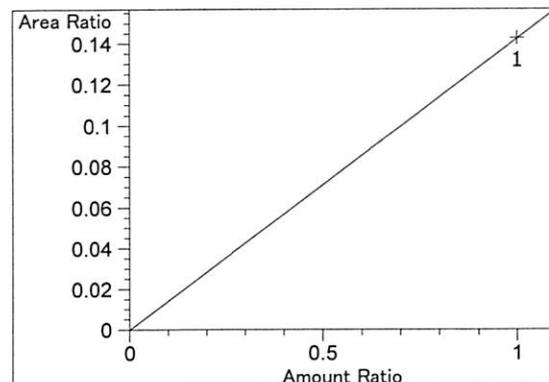
methanol at exp. RT: 3.388
 FID2 B, Back Signal
 Correlation: 1.00000
 Residual Std. Dev.: 0.00000
 Formula: $y = mx + b$
 m: 9.02466e-2
 b: 0.00000
 x: Amount Ratio
 y: Area Ratio



isopropyl alcohol at exp. RT: 3.628
 FID1 A, Front Signal
 Correlation: 1.00000
 Residual Std. Dev.: 0.00000
 Formula: $y = mx + b$
 m: 2.13449e-1
 b: 0.00000
 x: Amount Ratio
 y: Area Ratio

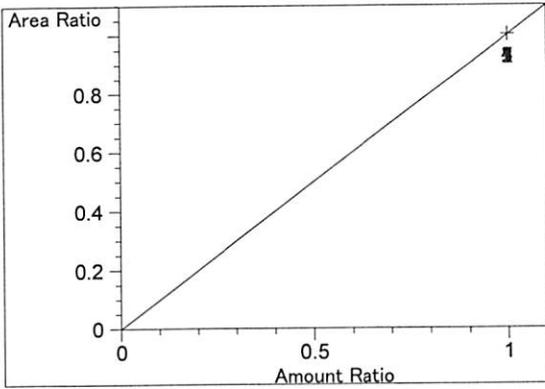


ethanol at exp. RT: 4.285
 FID2 B, Back Signal
 Correlation: 0.99991
 Residual Std. Dev.: 0.00553
 Formula: $y = mx + b$
 m: 2.02769
 b: -1.17140e-2
 x: Amount Ratio
 y: Area Ratio

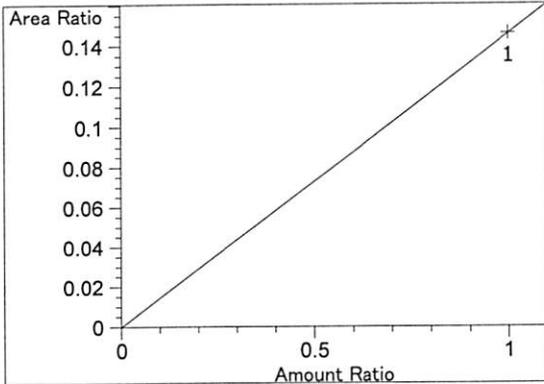


acetone at exp. RT: 4.308
 FID1 A, Front Signal
 Correlation: 1.00000
 Residual Std. Dev.: 0.00000
 Formula: $y = mx + b$
 m: 1.42571e-1
 b: 0.00000
 x: Amount Ratio
 y: Area Ratio

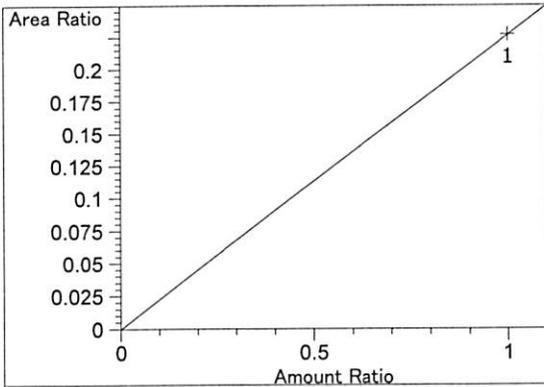
NB



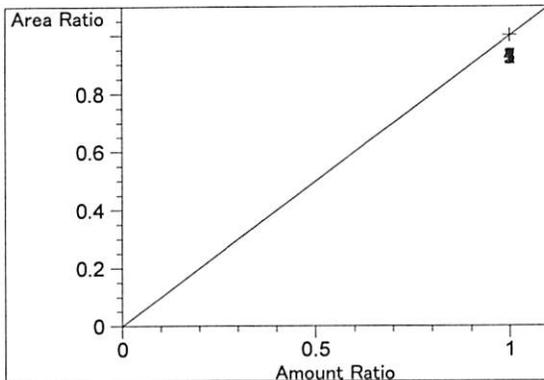
n-propanol at exp. RT: 4.620
 FID1 A, Front Signal
 Correlation: 1.00000
 Residual Std. Dev.: 0.00000
 Formula: $y = mx + b$
 m: 1.00000
 b: 0.00000
 x: Amount Ratio
 y: Area Ratio



acetone at exp. RT: 4.661
 FID2 B, Back Signal
 Correlation: 1.00000
 Residual Std. Dev.: 0.00000
 Formula: $y = mx + b$
 m: 1.46005e-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: 2.26778e-1
 b: 0.00000
 x: Amount Ratio
 y: Area Ratio



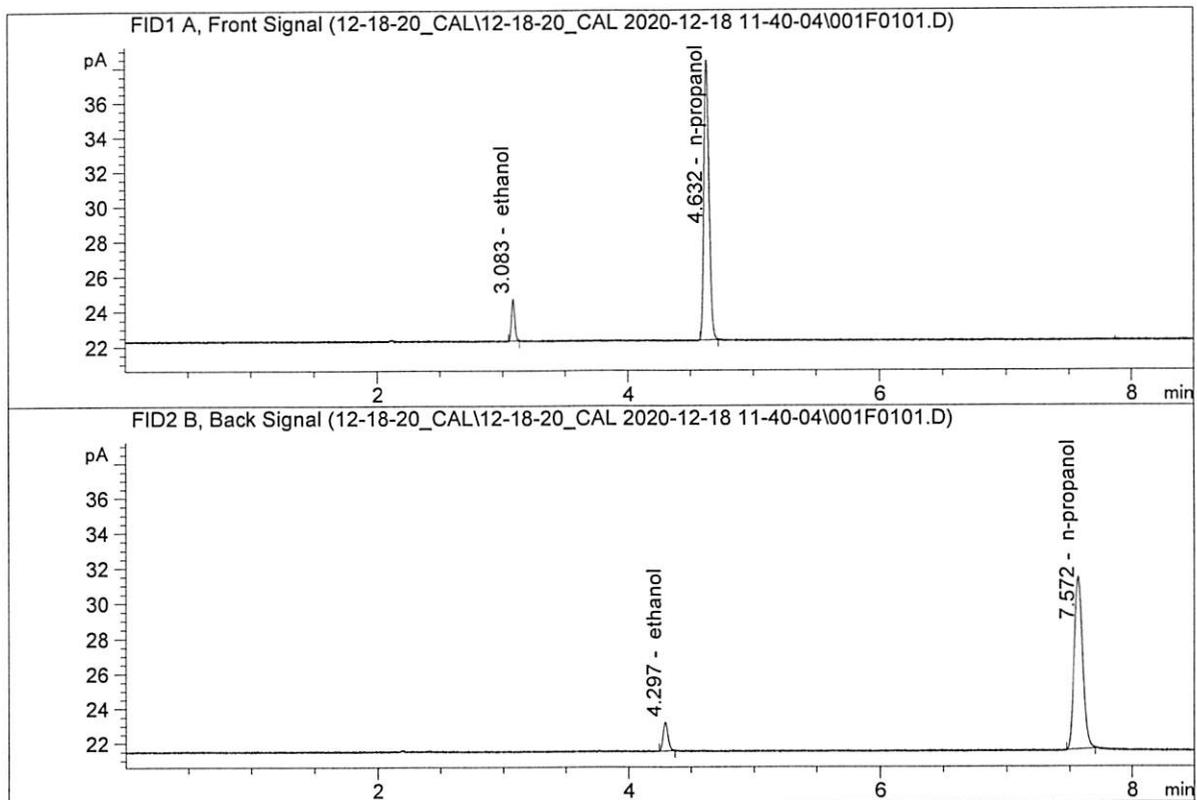
n-propanol at exp. RT: 7.550
 FID2 B, Back Signal
 Correlation: 1.00000
 Residual Std. Dev.: 0.00000
 Formula: $y = mx + b$
 m: 1.00000
 b: 0.00000
 x: Amount Ratio
 y: Area Ratio

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NB

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.050 FN05211804
 Laboratory : Meridian
 Injection Date : Dec 18, 2020
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167

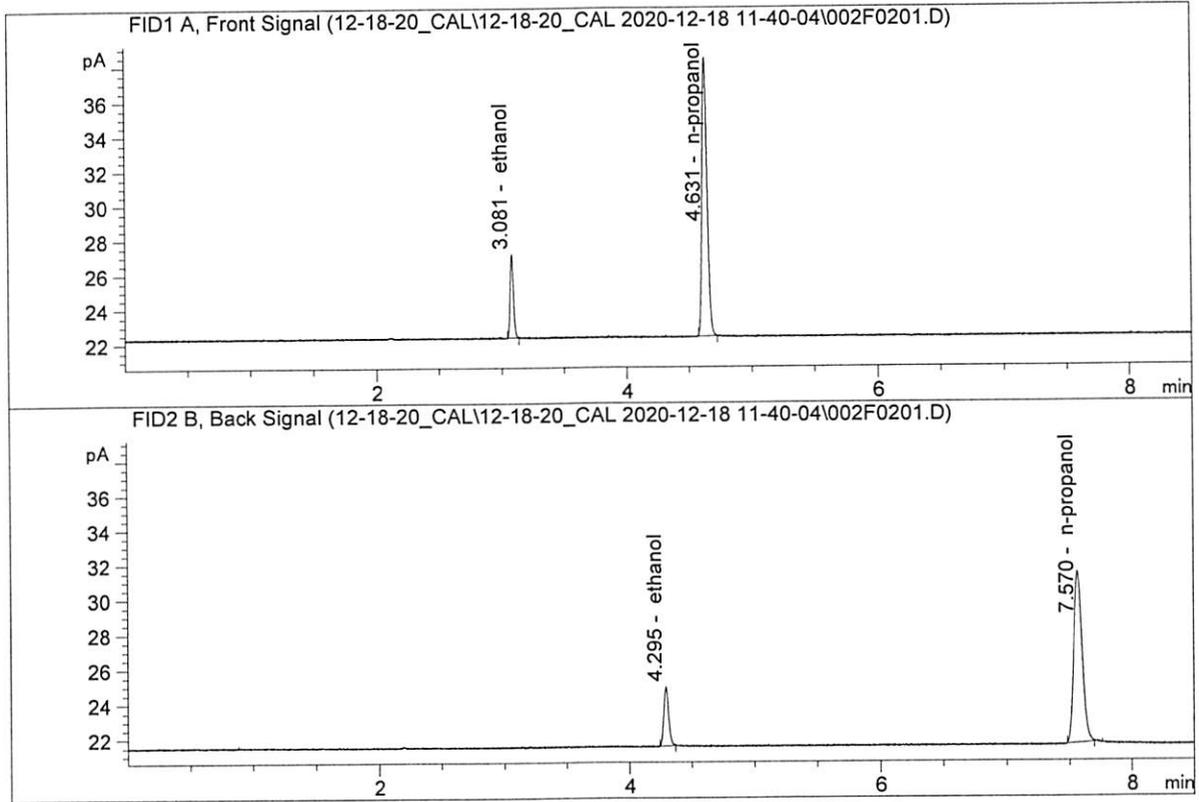


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	4.36020	0.0508	g/100cc
2.	Ethanol	Column 2:	4.44083	0.0522	g/100cc
3.	n-Propanol	Column 1:	45.58723	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.21092	1.0000	g/100cc

NB

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.100 FN02271802
 Laboratory : Meridian
 Injection Date : Dec 18, 2020
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167

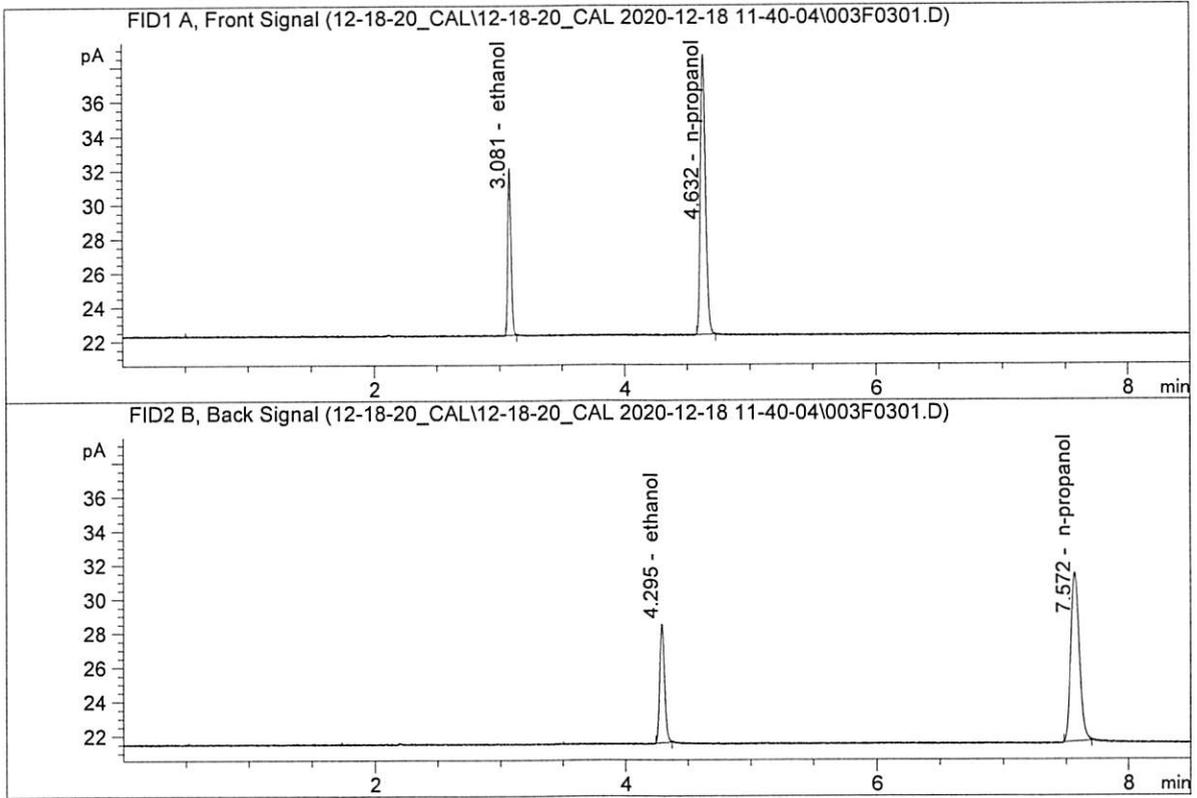


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	8.74356	0.1002	g/100cc
2.	Ethanol	Column 2:	8.97821	0.1006	g/100cc
3.	n-Propanol	Column 1:	45.63718	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.71051	1.0000	g/100cc

Handwritten signature/initials

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.200 FN06231704
 Laboratory : Meridian
 Injection Date : Dec 18, 2020
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167

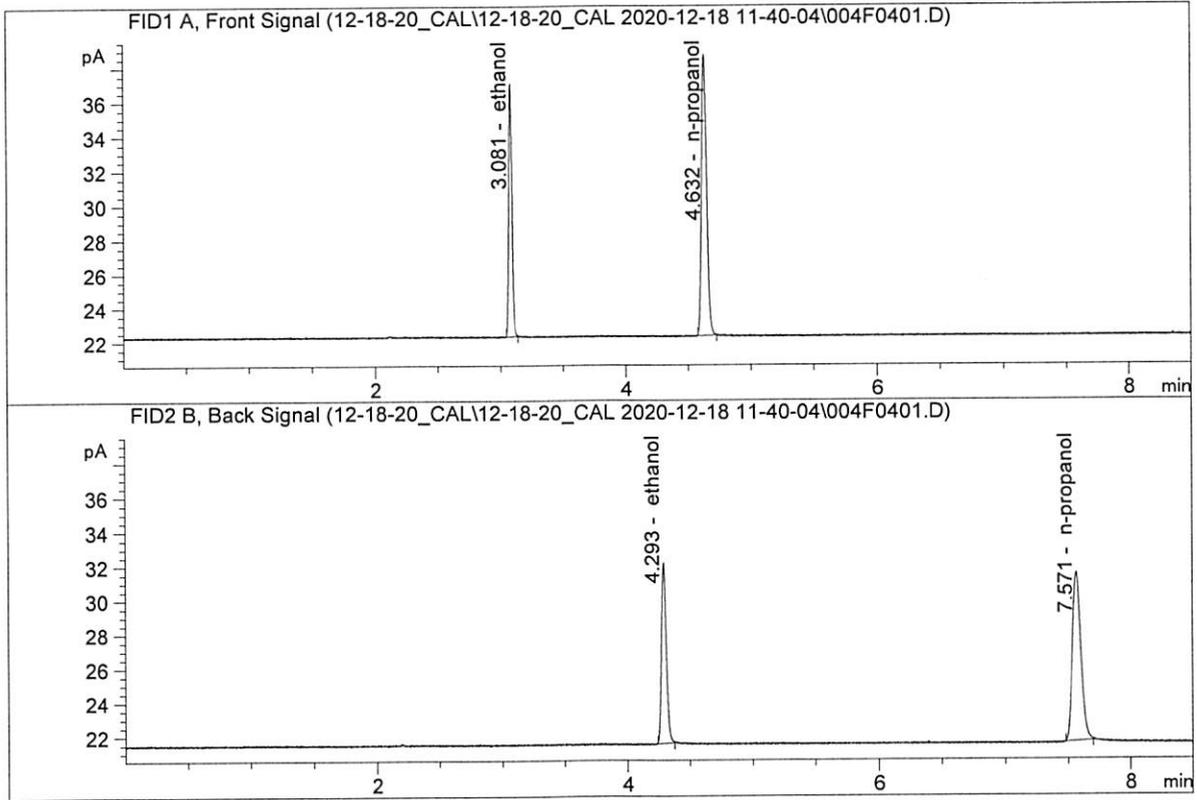


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	17.74107	0.1994	g/100cc
2.	Ethanol	Column 2:	18.44912	0.1979	g/100cc
3.	n-Propanol	Column 1:	46.21556	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.36869	1.0000	g/100cc

NB

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.300 FN07311804
 Laboratory : Meridian
 Injection Date : Dec 18, 2020
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167

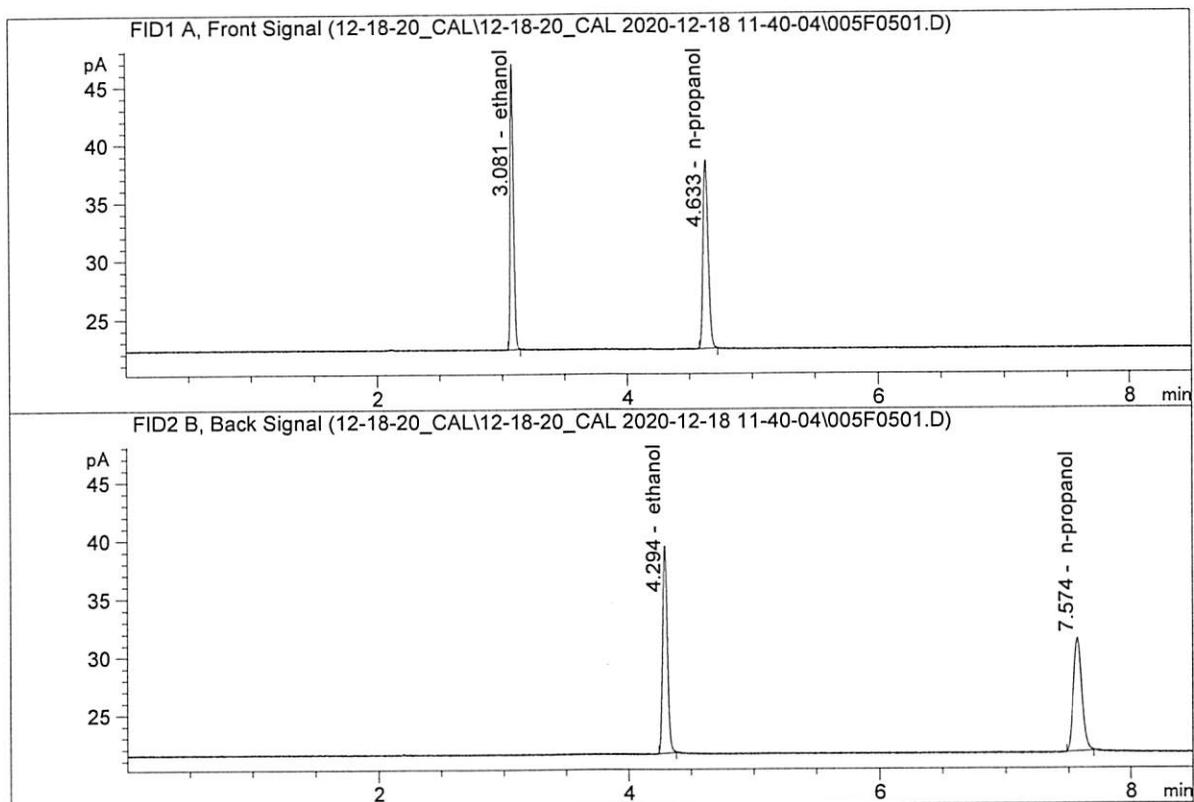


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	26.81179	0.2987	g/100cc
2.	Ethanol	Column 2:	28.13805	0.2972	g/100cc
3.	n-Propanol	Column 1:	46.52719	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.61769	1.0000	g/100cc

AB

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.500 FN08241801
 Laboratory : Meridian
 Injection Date : Dec 18, 2020
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167

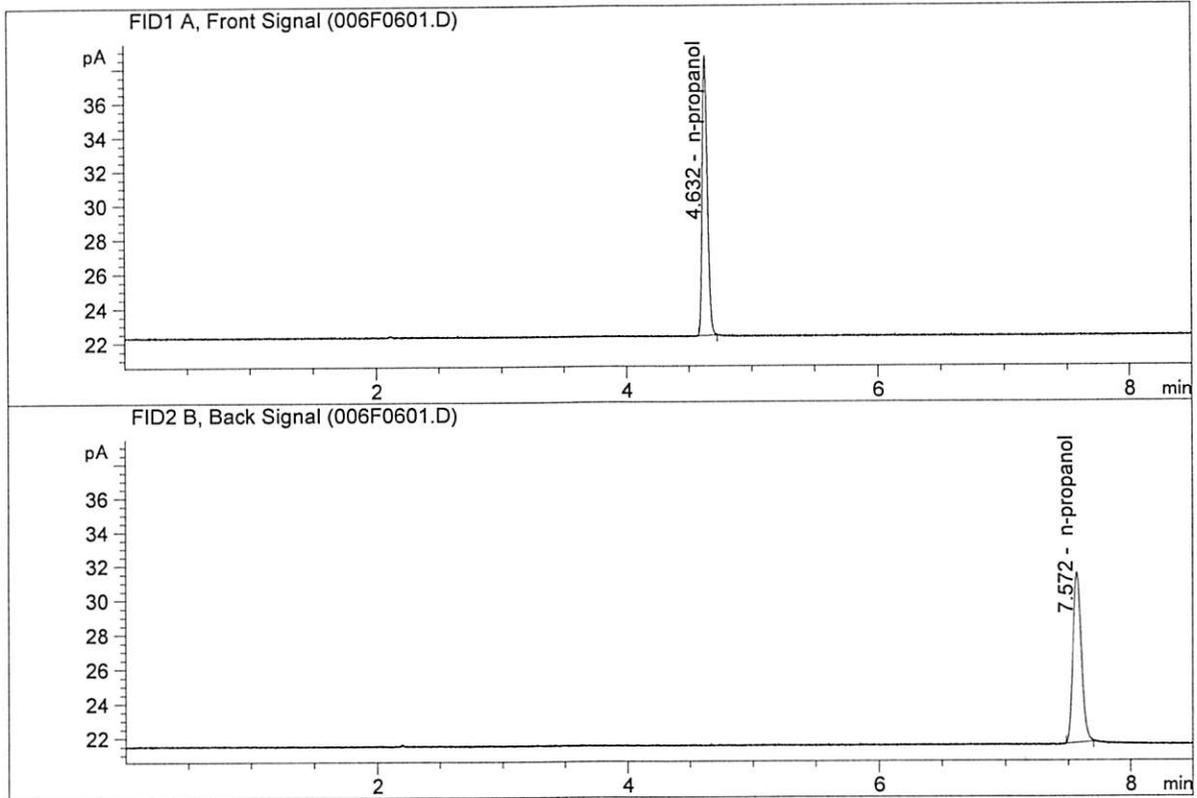


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	44.52795	0.5009	g/100cc
2.	Ethanol	Column 2:	47.16783	0.5022	g/100cc
3.	n-Propanol	Column 1:	45.98302	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.85835	1.0000	g/100cc

NB

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STANDARD BLANK
 Laboratory : Meridian
 Injection Date : Dec 18, 2020
 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:	46.28142	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.24259	1.0000	g/100cc

NB

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

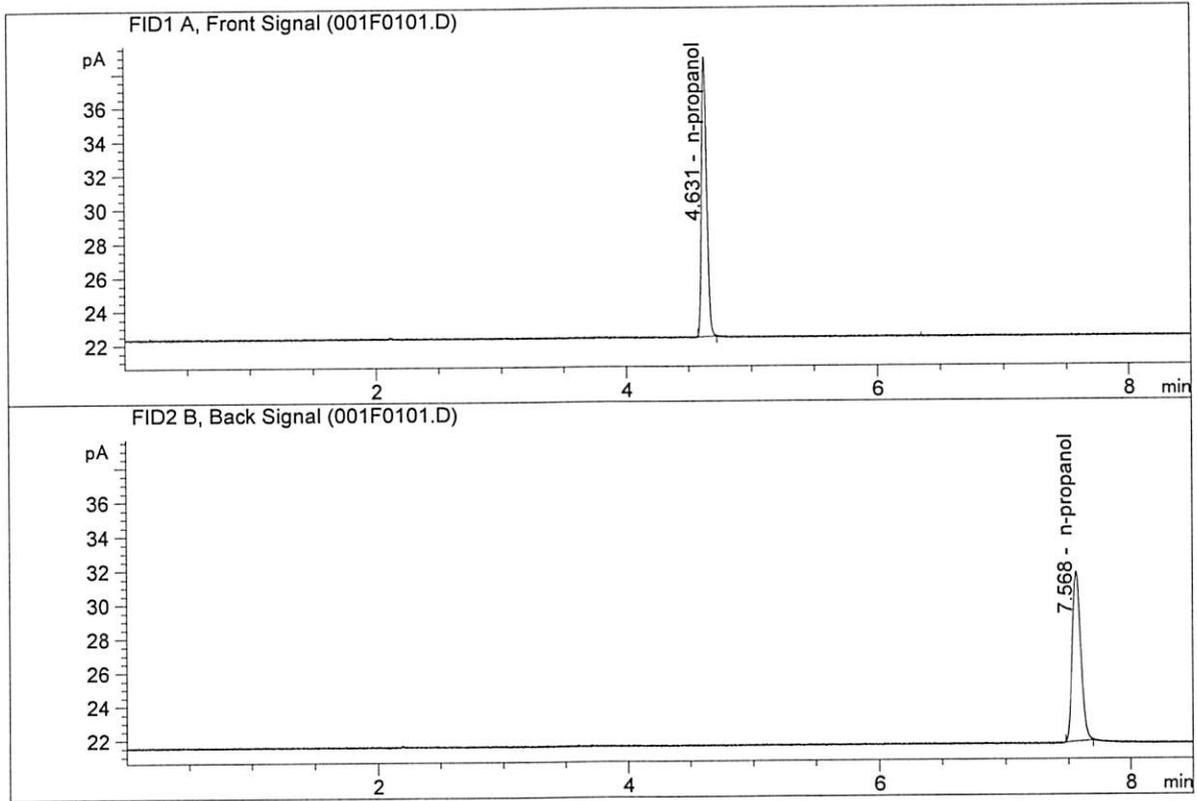
Sequence table: C:\Chem32\1\Data\12-18-20_CAL\12-18-20_CAL 2020-12-18 11-40-04\12-18-20_CAL.S
 Data directory path: C:\Chem32\1\Data\12-18-20_CAL\12-18-20_CAL 2020-12-18 11-40-04\
 Logbook: C:\Chem32\1\Data\12-18-20_CAL\12-18-20_CAL 2020-12-18 11-40-04\12-18-20_CAL.LOG
 Sequence start: 12/18/2020 11:54:40 AM
 Sequence Operator: SYSTEM
 Operator: SYSTEM

Method file name: C:\Chem32\1\Data\12-18-20_CAL\12-18-20_CAL 2020-12-18 11-40-04\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 FN08241801	-	1.0000	005F0501.D	*	4
6	6	1	INTERNAL STANDAR	-	1.0000	006F0601.D		2

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK 1
 Laboratory : Meridian
 Injection Date : Dec 18, 2020
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167

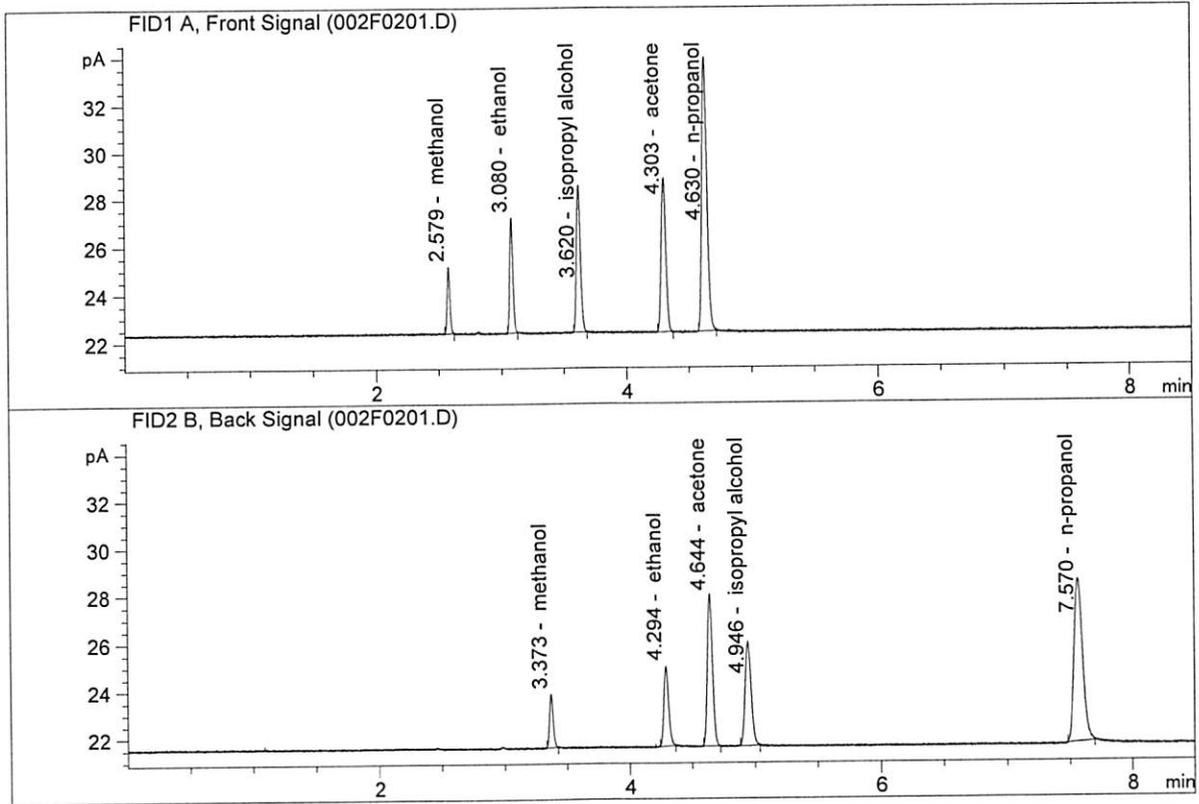


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	46.90575	1.0000	g/100cc
4.	n-Propanol	Column 2:	48.29097	1.0000	g/100cc

NB

ISP Forensic Services Blood Alcohol Report

Sample Name : MIX VOL FN07101701
 Laboratory : Meridian
 Injection Date : Dec 18, 2020
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	8.60062	0.1374	g/100cc
2.	Ethanol	Column 2:	8.92095	0.1393	g/100cc
3.	n-Propanol	Column 1:	32.62232	1.0000	g/100cc
4.	n-Propanol	Column 2:	32.95326	1.0000	g/100cc

NB

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-1

Analysis Date(s): 18 Dec 2020

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0741	0.0760	0.0019	0.0750	0.0007	0.0747
(g/100cc)	0.0736	0.0751	0.0015	0.0743		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

Refer to Instrument Method: Alcohol.m

Reporting of Results

Uncertainty of Measurement (UM%): 5.00%

Overall Mean (g/100cc)	Low	High	5% of Mean
0.074	0.070	0.078	0.004

	Reported Result
	0.074

Calibration and control data are stored centrally.

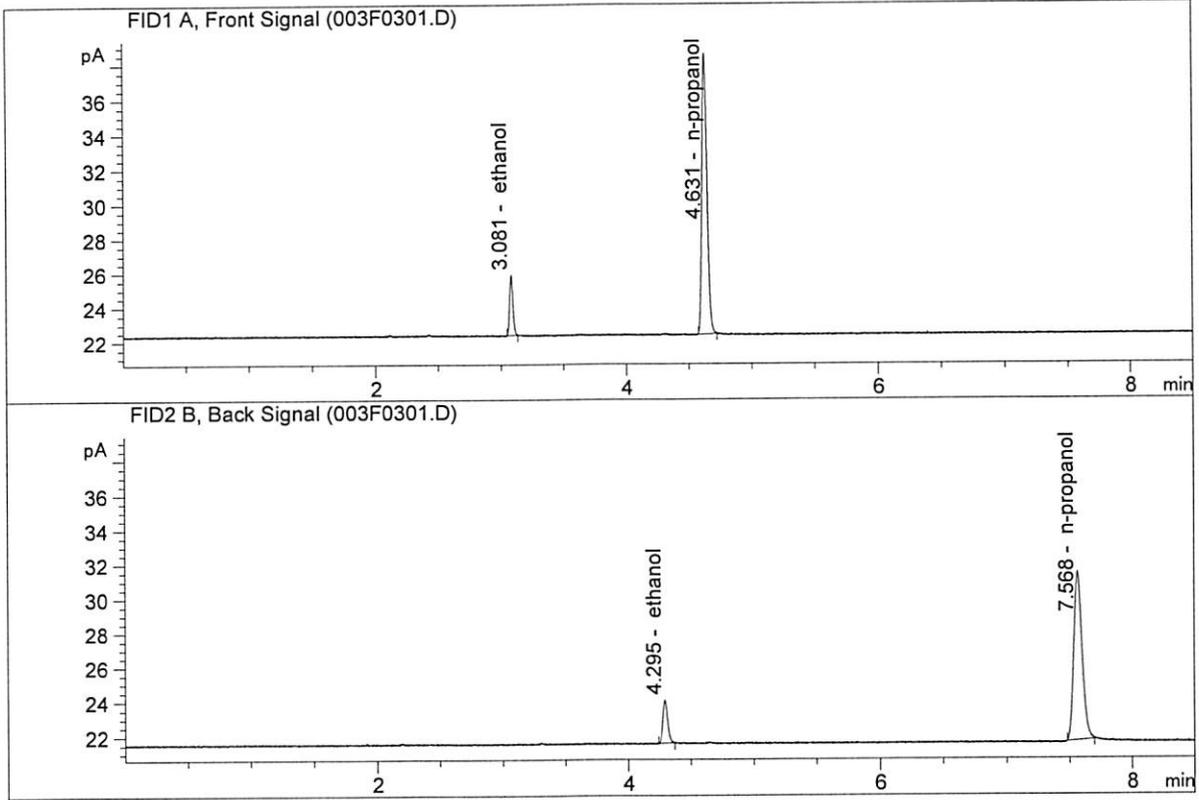
Revision: 2

Issue Date: 12/23/2019

Issuing Authority: Quality Manager

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-1-A
 Laboratory : Meridian
 Injection Date : Dec 18, 2020
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167

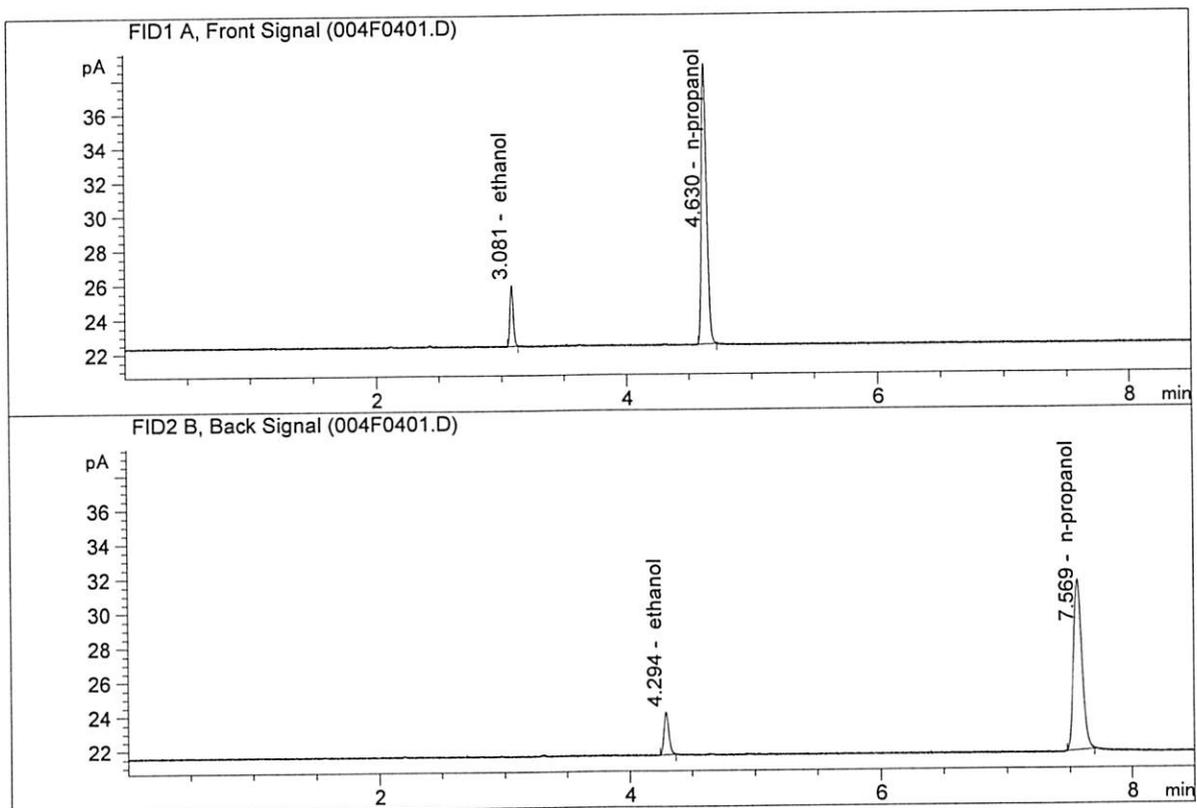


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.47103	0.0741	g/100cc
2.	Ethanol	Column 2:	6.67214	0.0760	g/100cc
3.	n-Propanol	Column 1:	45.93909	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.89120	1.0000	g/100cc

NB

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-1-B
 Laboratory : Meridian
 Injection Date : Dec 18, 2020
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.50850	0.0736	g/100cc
2.	Ethanol	Column 2:	6.68508	0.0751	g/100cc
3.	n-Propanol	Column 1:	46.51676	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.53477	1.0000	g/100cc

NB

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 0.08 FN09181807

Analysis Date(s): 18 Dec 2020

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0801	0.0814	0.0013	0.0807	0.0004	0.0805
(g/100cc)	0.0795	0.0811	0.0016	0.0803		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

Refer to Instrument Method: Alcohol.m

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.



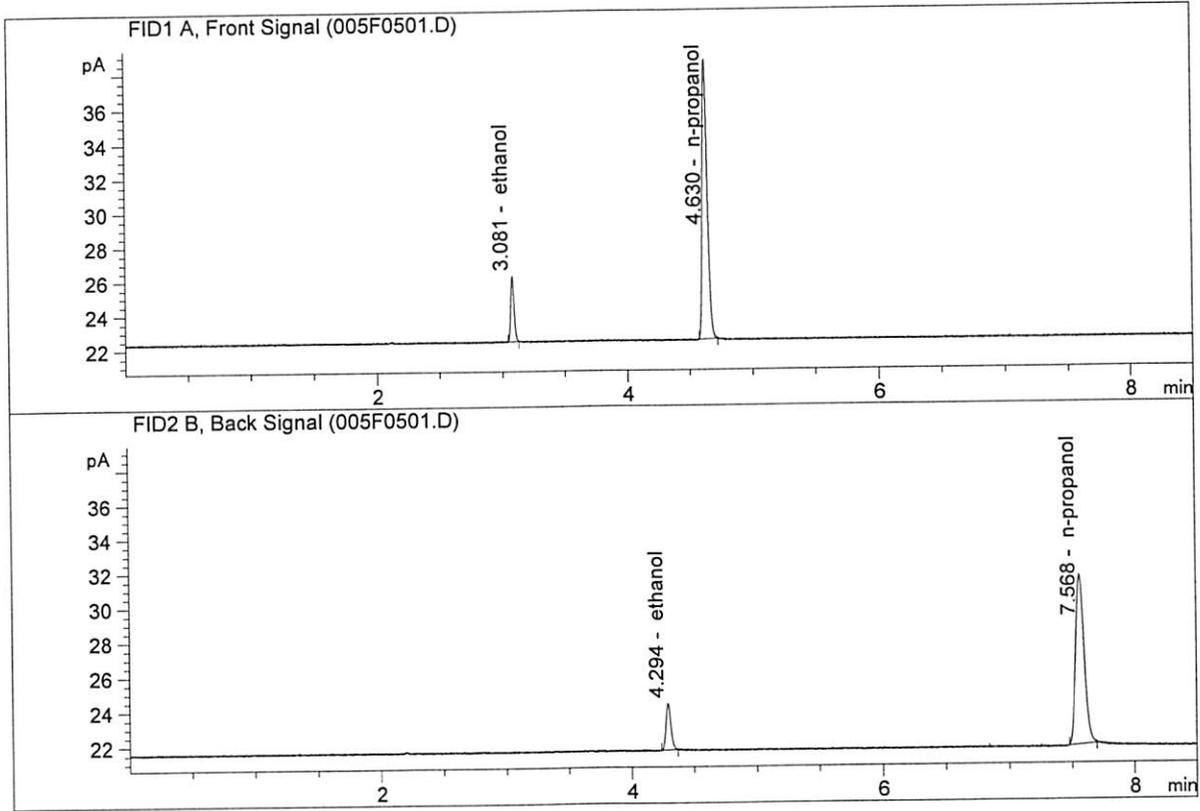
Revision: 2

Issue Date: 12/23/2019

Issuing Authority: Quality Manager

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN09181807-A
 Laboratory : Meridian
 Injection Date : Dec 18, 2020
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167

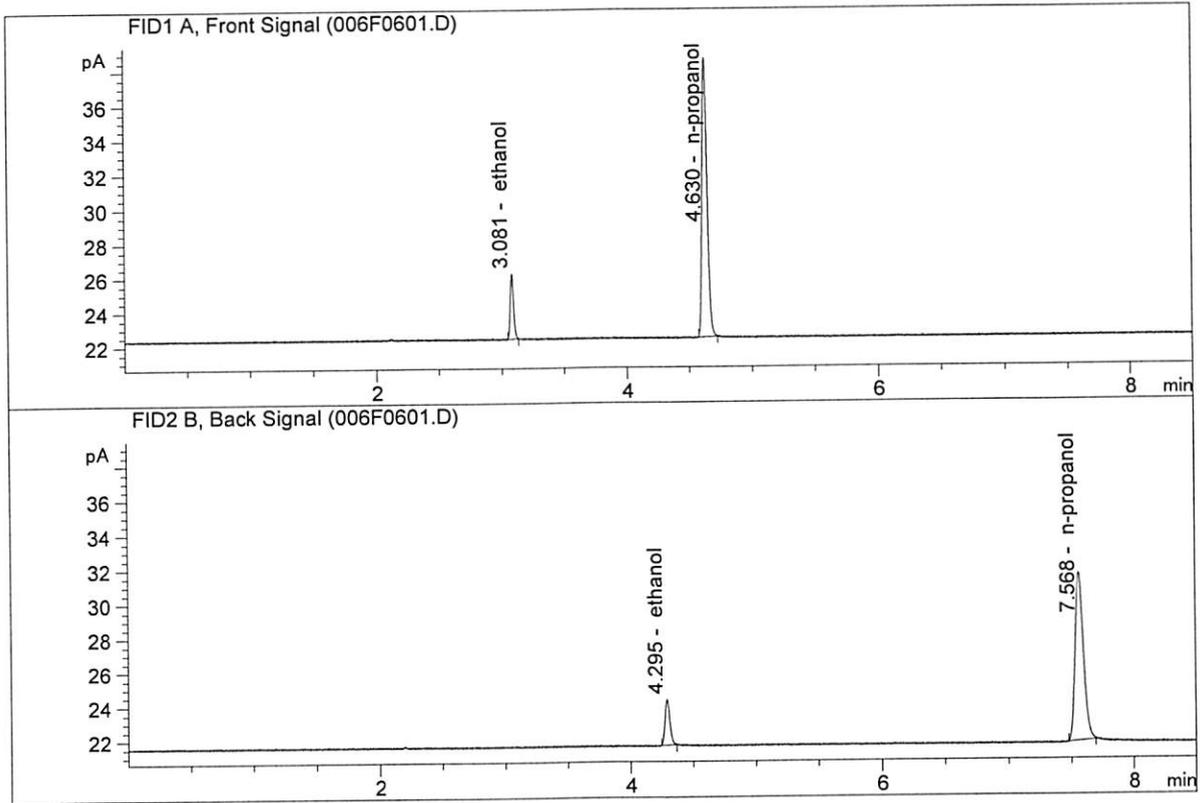


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.03360	0.0801	g/100cc
2.	Ethanol	Column 2:	7.21397	0.0814	g/100cc
3.	n-Propanol	Column 1:	46.09908	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.01567	1.0000	g/100cc

NB

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN09181807-B
 Laboratory : Meridian
 Injection Date : Dec 18, 2020
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.00488	0.0795	g/100cc
2.	Ethanol	Column 2:	7.18454	0.0811	g/100cc
3.	n-Propanol	Column 1:	46.24729	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.06646	1.0000	g/100cc

NB

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC2-1

Analysis Date(s): 18 Dec 2020

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.2007	0.2001	0.0006	0.2004	0.0005	0.2006
(g/100cc)	0.2005	0.2013	0.0008	0.2009		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

Refer to Instrument Method: Alcohol.m

Reporting of Results

Uncertainty of Measurement (UM%): 5.00%

Overall Mean (g/100cc)	Low	High	5% of Mean
0.200	0.190	0.210	0.010

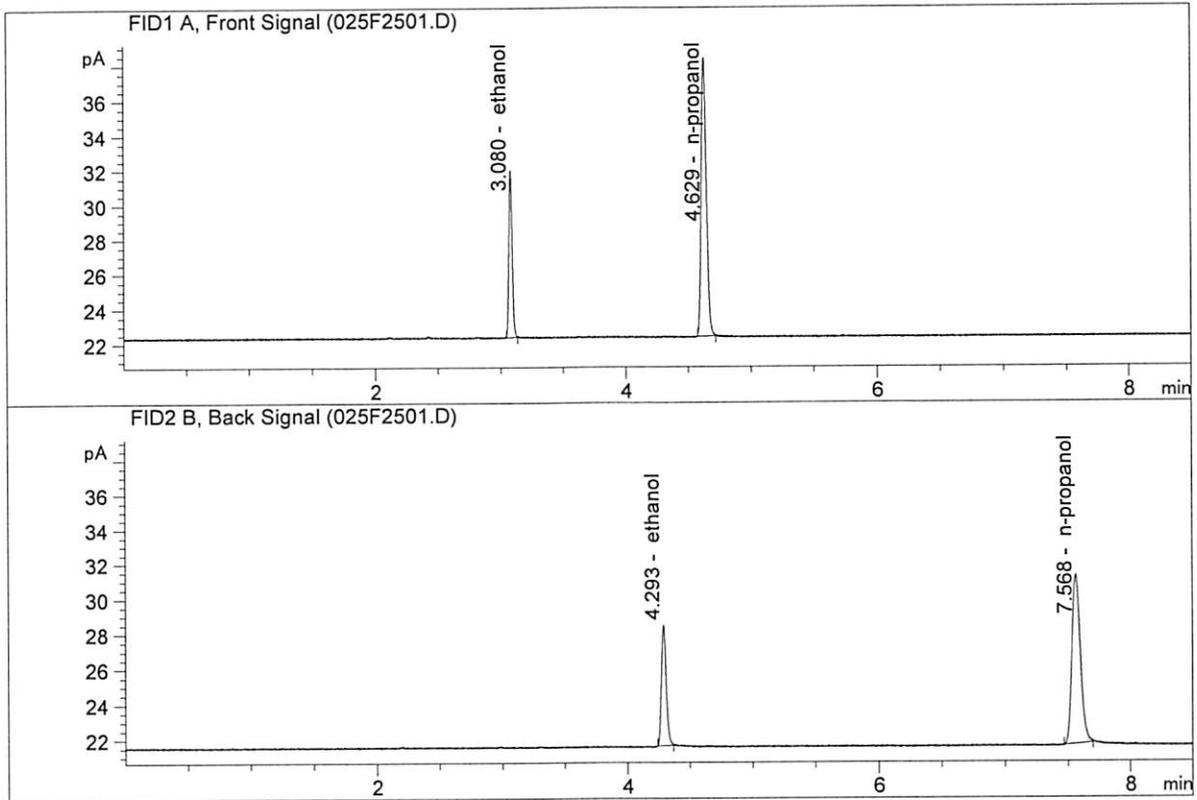
Reported Result
0.200

Calibration and control data are stored centrally.

NB

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-1-A
 Laboratory : Meridian
 Injection Date : Dec 18, 2020
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167

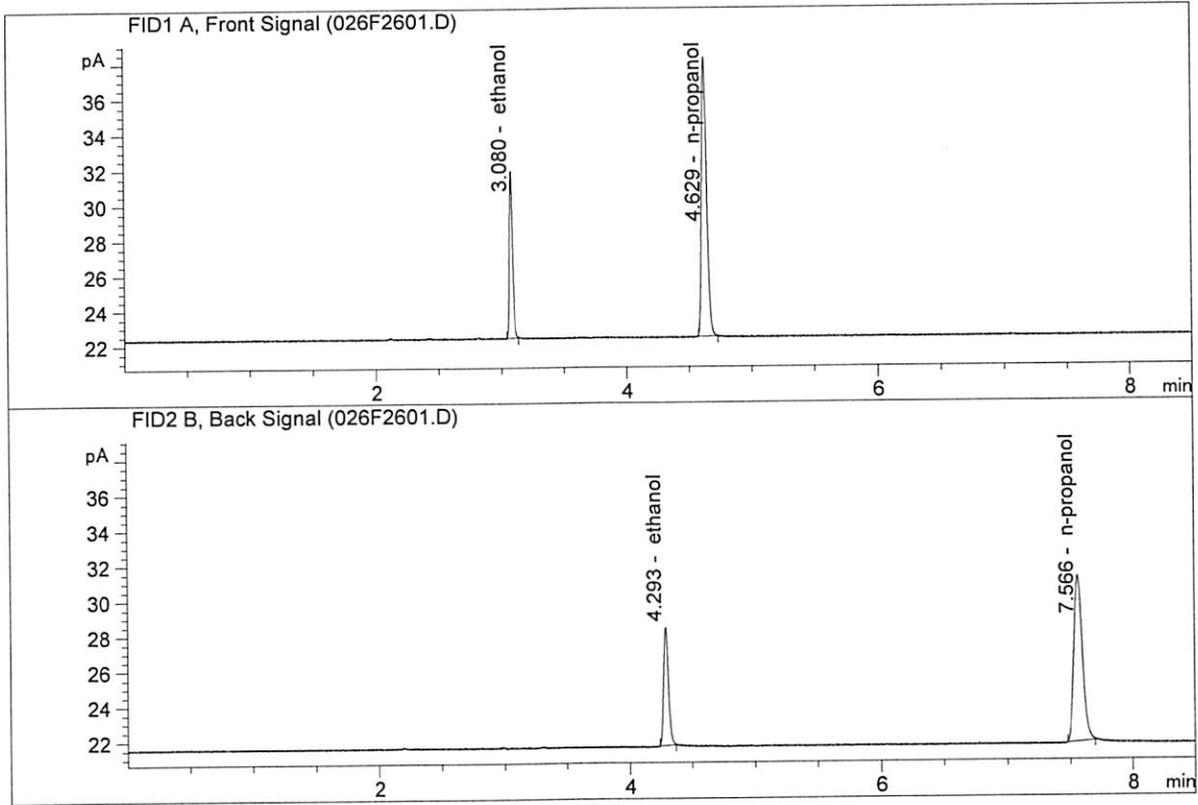


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	17.59343	0.2007	g/100cc
2.	Ethanol	Column 2:	18.16333	0.2001	g/100cc
3.	n-Propanol	Column 1:	45.53686	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.10328	1.0000	g/100cc

NB

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-1-B
 Laboratory : Meridian
 Injection Date : Dec 18, 2020
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	17.41451	0.2005	g/100cc
2.	Ethanol	Column 2:	17.98429	0.2013	g/100cc
3.	n-Propanol	Column 1:	45.12123	1.0000	g/100cc
4.	n-Propanol	Column 2:	45.35180	1.0000	g/100cc

NB

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-2

Analysis Date(s): 18 Dec 2020

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0766	0.0778	0.0012	0.0772	0.0003	0.0770
(g/100cc)	0.0763	0.0776	0.0013	0.0769		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

Refer to Instrument Method: Alcohol.m

Reporting of Results

Uncertainty of Measurement (UM%): 5.00%

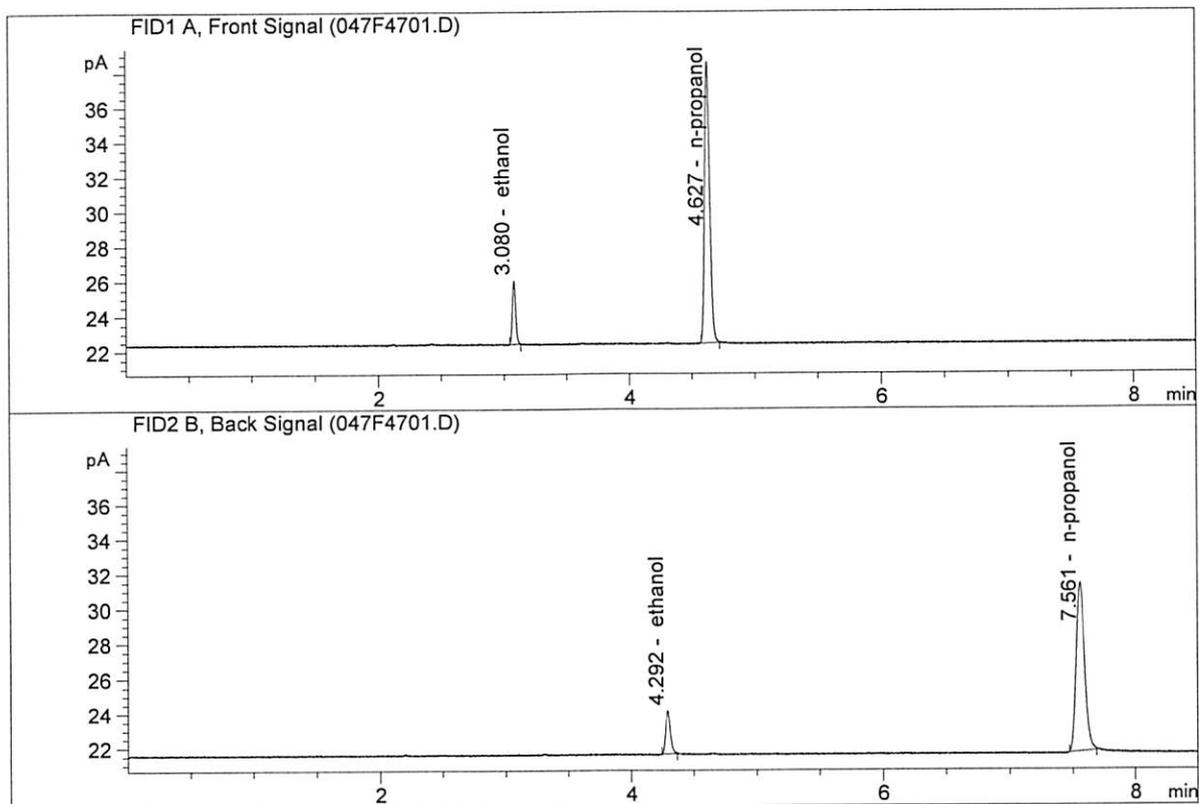
Overall Mean (g/100cc)	Low	High	5% of Mean
0.077	0.073	0.081	0.004

Reported Result
0.077

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-2-A
 Laboratory : Meridian
 Injection Date : Dec 18, 2020
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167

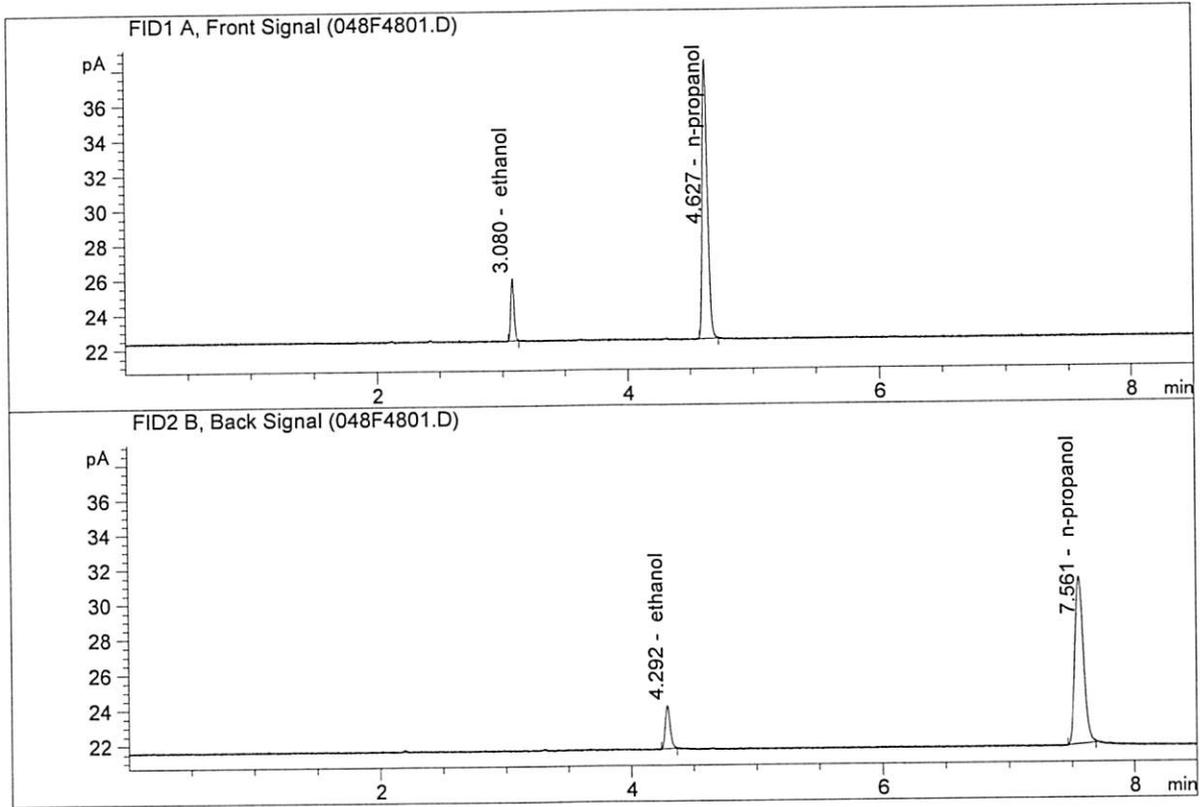


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.69392	0.0766	g/100cc
2.	Ethanol	Column 2:	6.72500	0.0778	g/100cc
3.	n-Propanol	Column 1:	45.95100	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.06926	1.0000	g/100cc

NB

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-2-B
 Laboratory : Meridian
 Injection Date : Dec 18, 2020
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.57072	0.0763	g/100cc
2.	Ethanol	Column 2:	6.61584	0.0776	g/100cc
3.	n-Propanol	Column 1:	45.28258	1.0000	g/100cc
4.	n-Propanol	Column 2:	45.44747	1.0000	g/100cc

NB

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC2-2

Analysis Date(s): 18 Dec 2020

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.2028	0.2036	0.0008	0.2032	0.0033	0.2048
(g/100cc)	0.2061	0.2069	0.0008	0.2065		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

Refer to Instrument Method: Alcohol.m

Reporting of Results

Uncertainty of Measurement (UM%): 5.00%

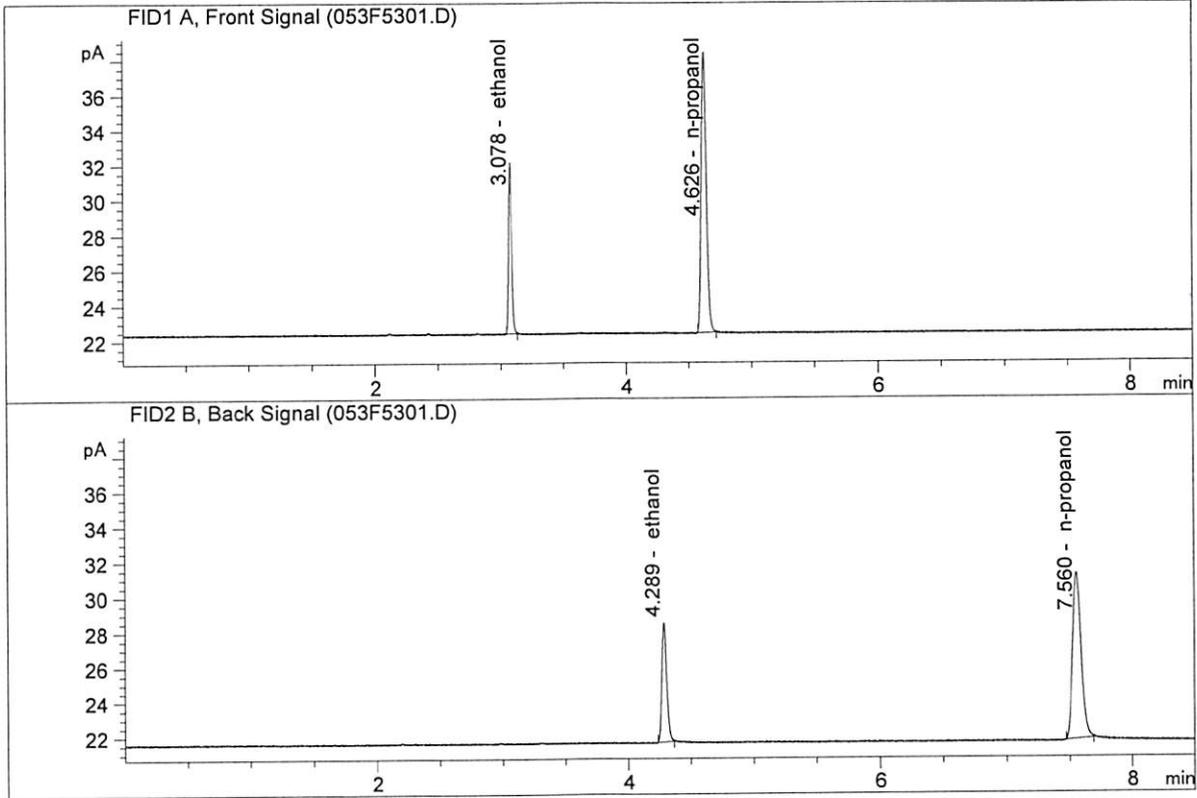
Overall Mean (g/100cc)	Low	High	5% of Mean
0.204	0.193	0.215	0.011

	Reported Result	
	0.204	

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-2-A
 Laboratory : Meridian
 Injection Date : Dec 18, 2020
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167

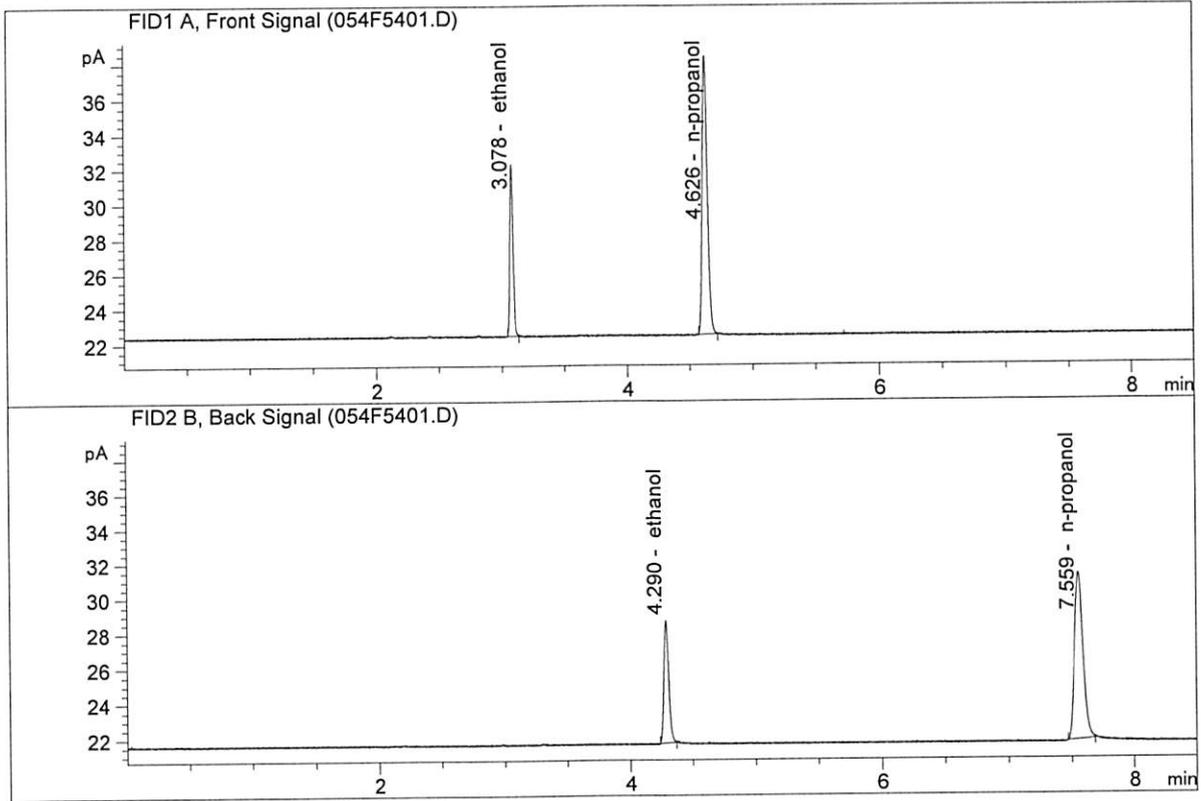


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	17.72572	0.2028	g/100cc
2.	Ethanol	Column 2:	18.23565	0.2036	g/100cc
3.	n-Propanol	Column 1:	45.40282	1.0000	g/100cc
4.	n-Propanol	Column 2:	45.45839	1.0000	g/100cc

NB

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-2-B
 Laboratory : Meridian
 Injection Date : Dec 18, 2020
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167

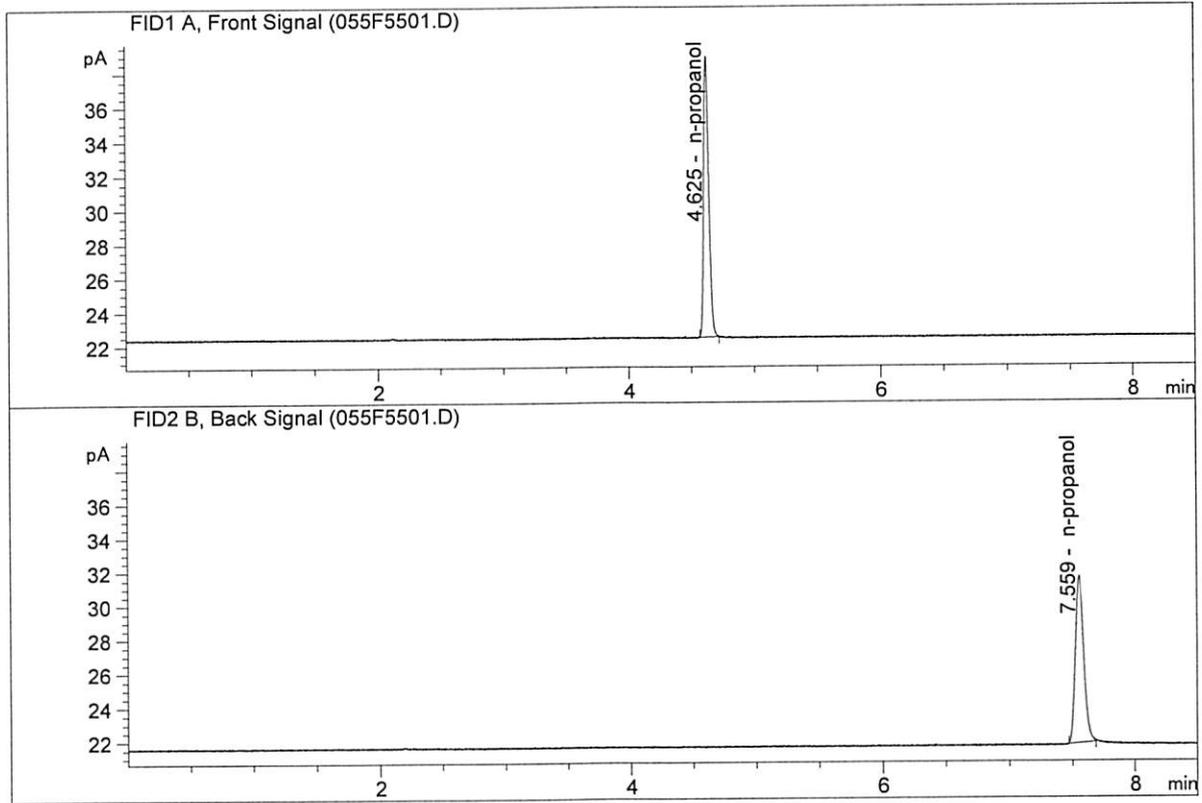


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.00319	0.2061	g/100cc
2.	Ethanol	Column 2:	18.51801	0.2069	g/100cc
3.	n-Propanol	Column 1:	45.37746	1.0000	g/100cc
4.	n-Propanol	Column 2:	45.41113	1.0000	g/100cc

NB

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK 2
 Laboratory : Meridian
 Injection Date : Dec 18, 2020
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167

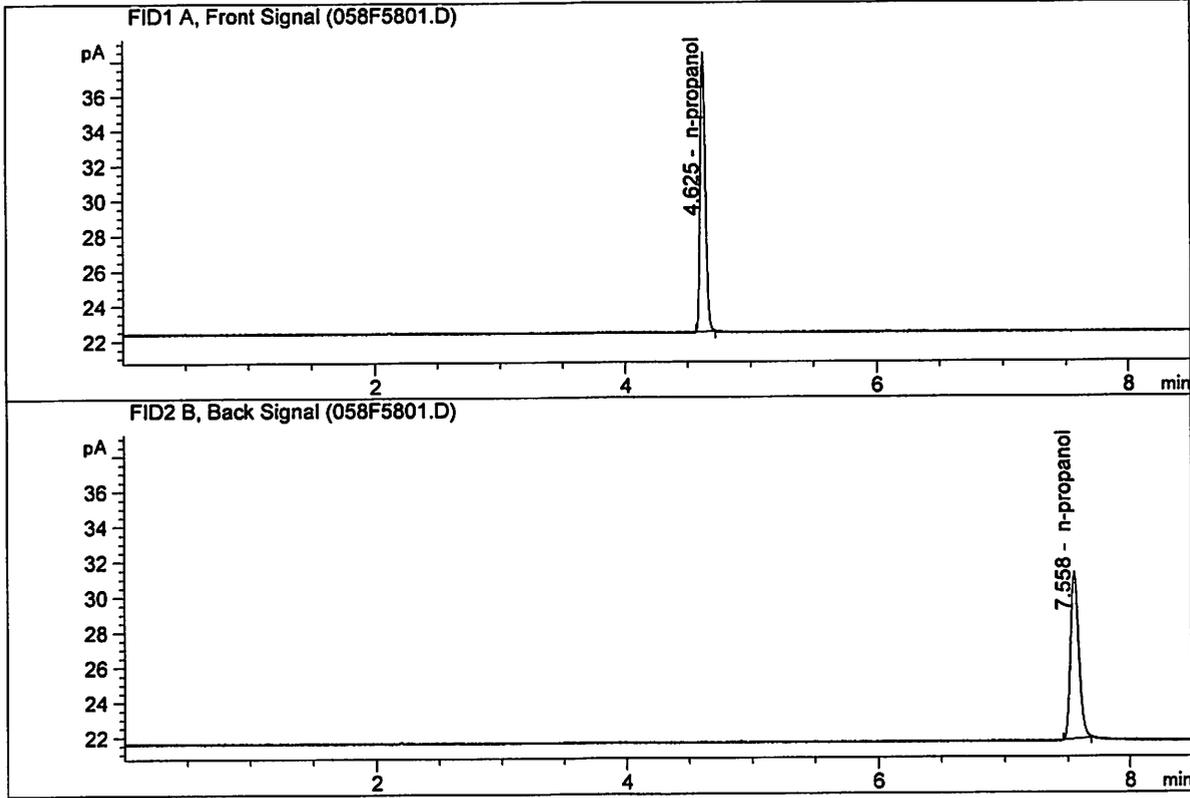


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	46.80064	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.92083	1.0000	g/100cc

NB

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK 3
 Laboratory : Meridian
 Injection Date : Dec 18, 2020
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



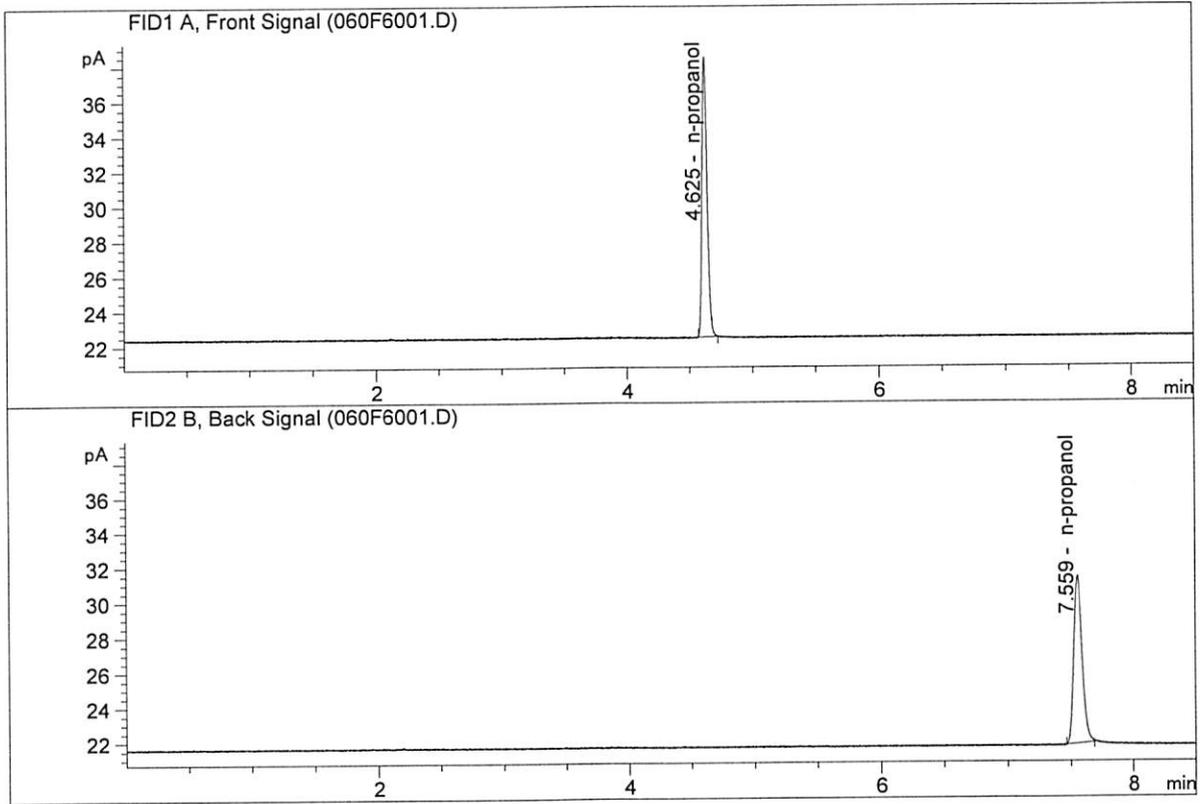
#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	45.48948	1.0000	g/100cc
4.	n-Propanol	Column 2:	45.66065	1.0000	g/100cc

NB

12/21/20

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK 4
 Laboratory : Meridian
 Injection Date : Dec 19, 2020
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167

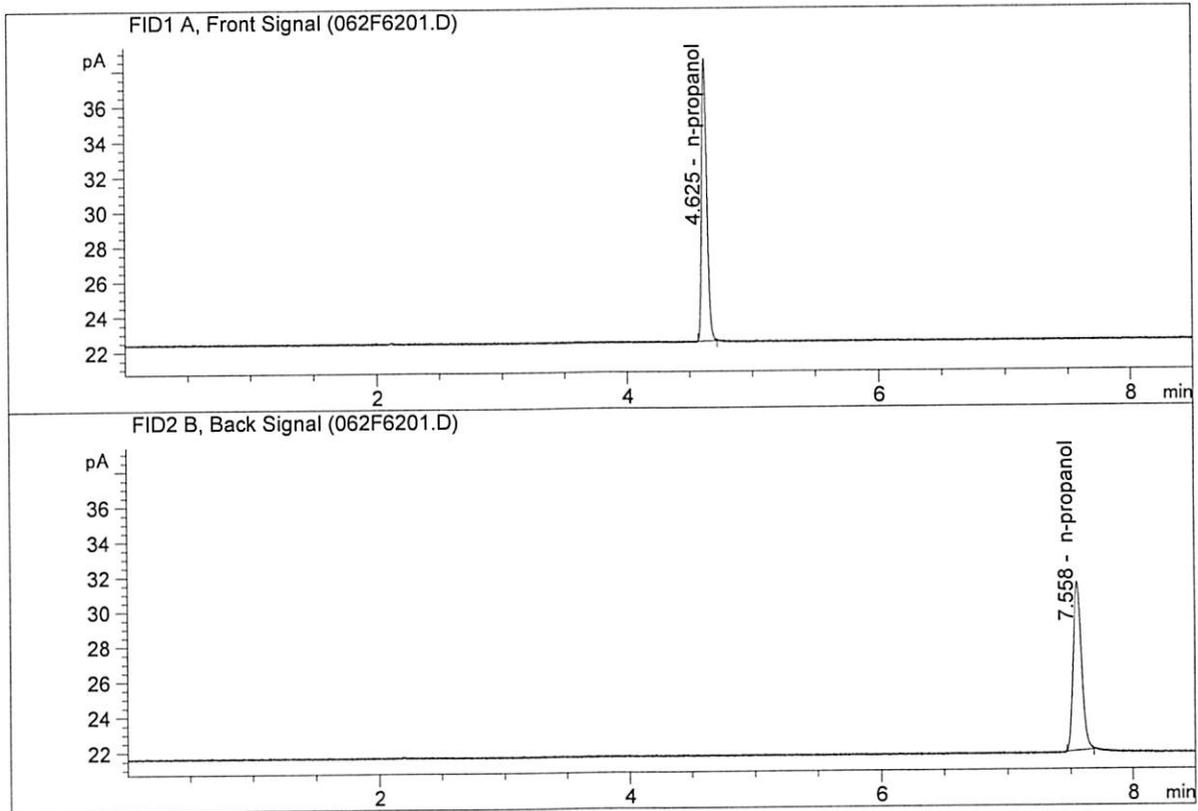


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	45.55481	1.0000	g/100cc
4.	n-Propanol	Column 2:	45.73237	1.0000	g/100cc

NB

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK 5
 Laboratory : Meridian
 Injection Date : Dec 19, 2020
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167

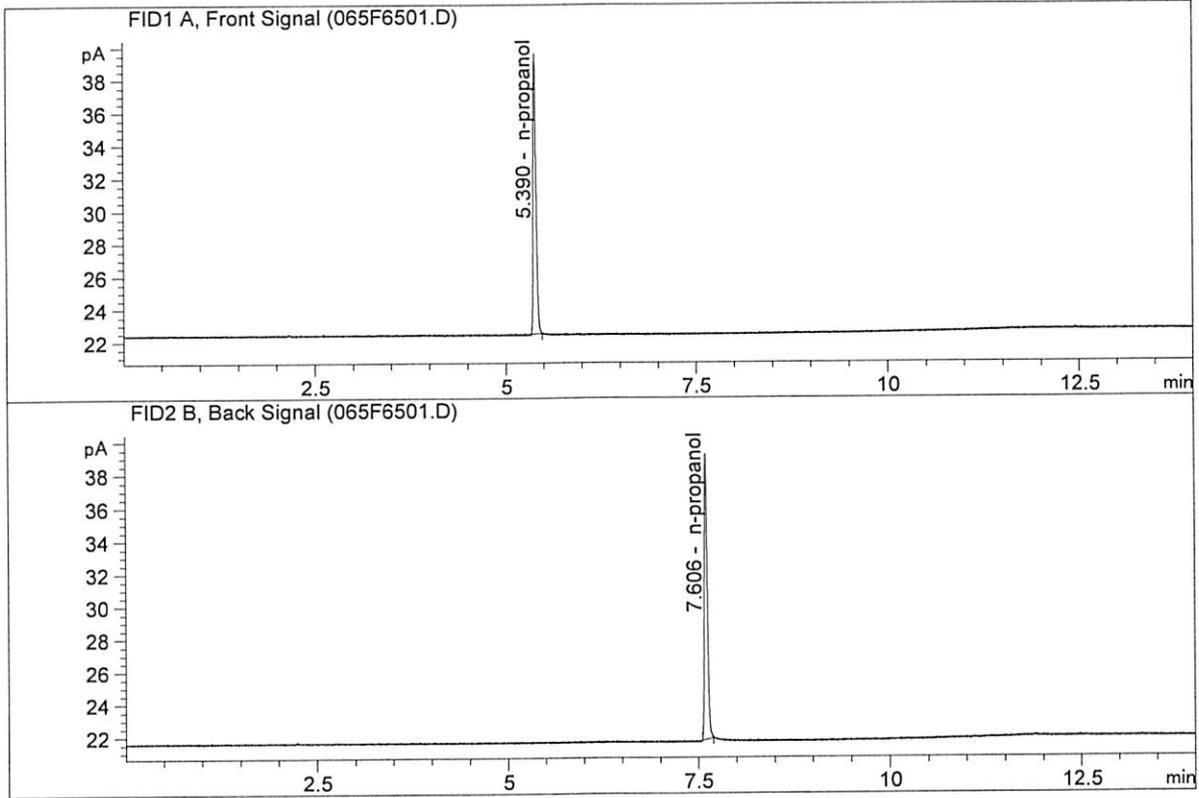


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	45.68836	1.0000	g/100cc
4.	n-Propanol	Column 2:	45.82576	1.0000	g/100cc

MB

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK 6
 Laboratory : Meridian
 Injection Date : Dec 19, 2020
 Method : VOLATILES.M
 Acq. Instrument: CN11180014-CN11041167

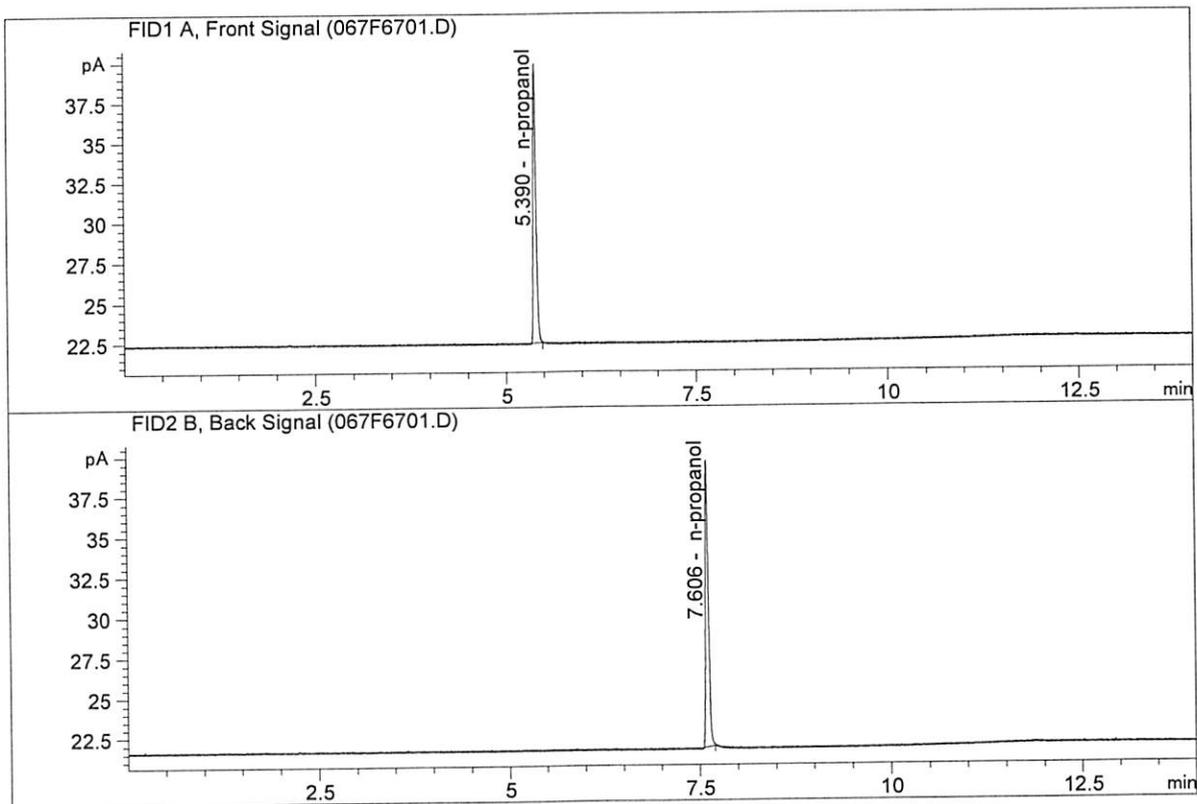


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	44.63659	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.34183	1.0000	g/100cc

MB

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK 7
 Laboratory : Meridian
 Injection Date : Dec 19, 2020
 Method : VOLATILES.M
 Acq. Instrument: CN11180014-CN11041167

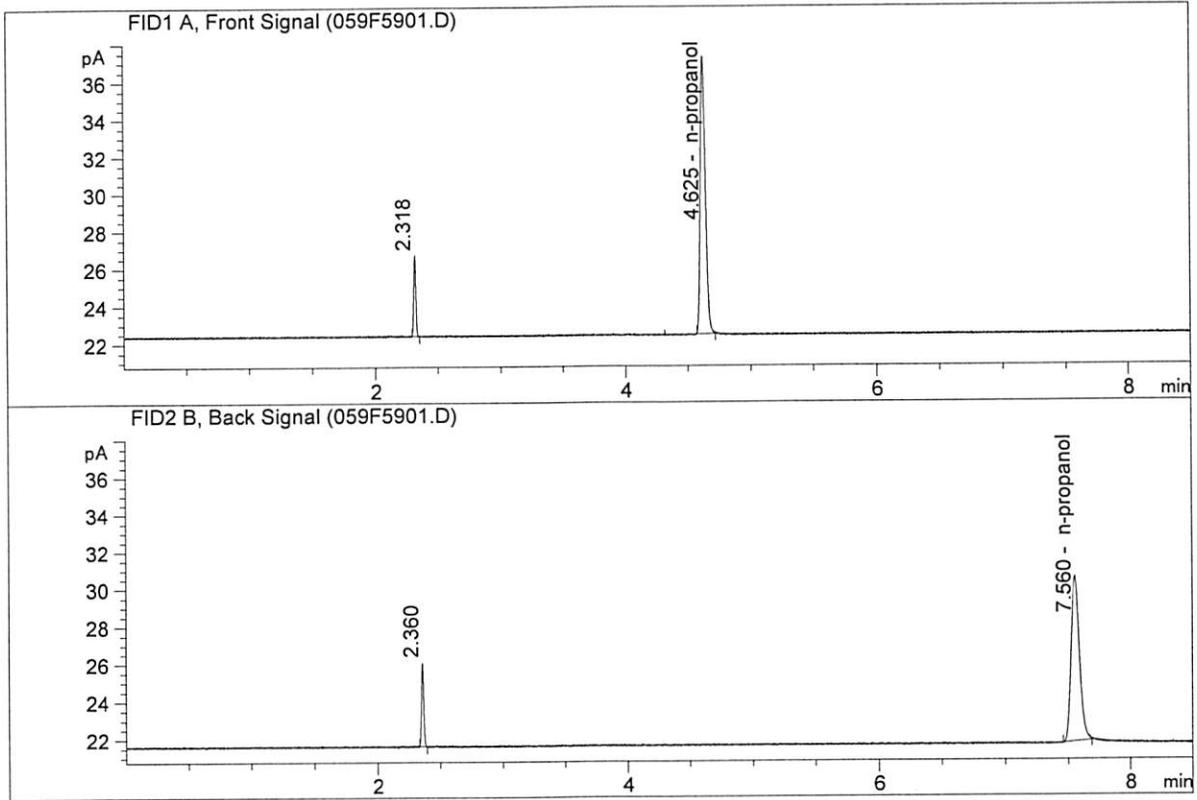


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	45.49215	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.30252	1.0000	g/100cc

NB

ISP Forensic Services Blood Alcohol Report

Sample Name : DFE 111914OM
 Laboratory : Meridian
 Injection Date : Dec 19, 2020
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014 - CN11041167

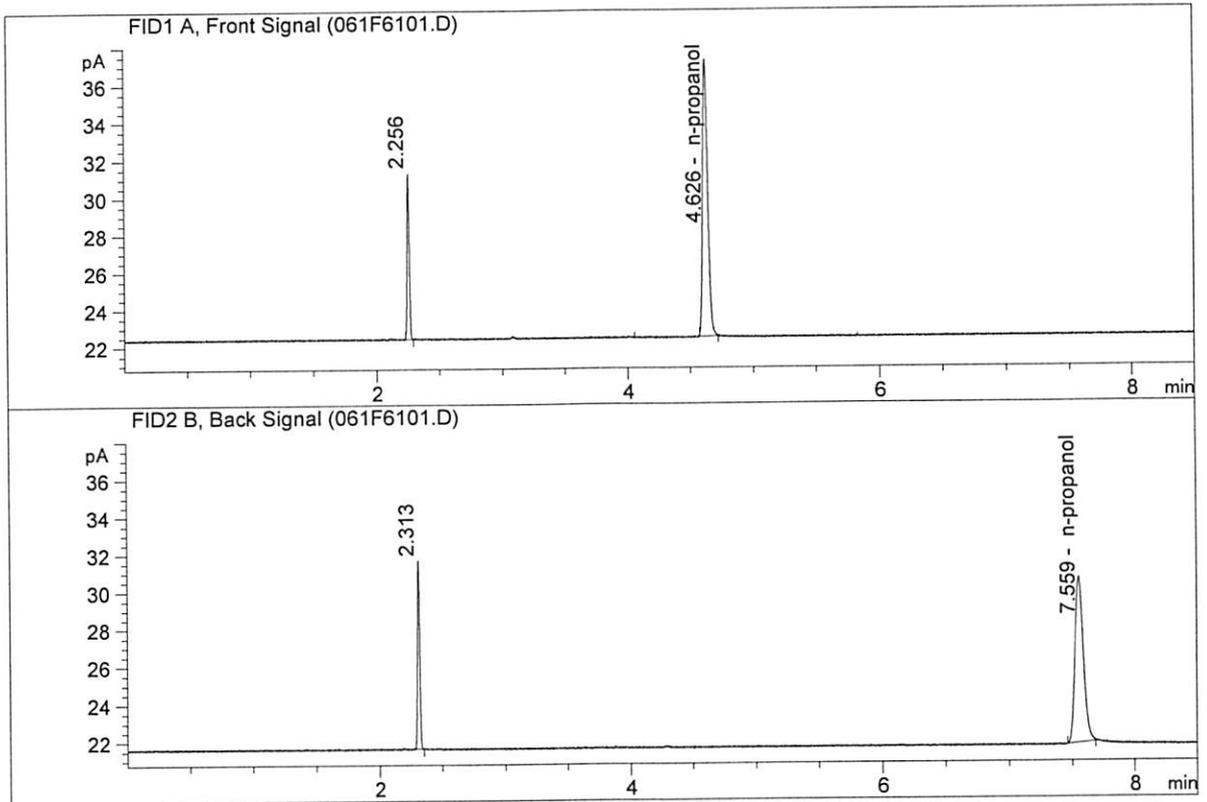


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	41.87843	1.0000	g/100cc
4.	n-Propanol	Column 2:	41.99232	1.0000	g/100cc

NB

ISP Forensic Services Blood Alcohol Report

Sample Name : TFE 111914
 Laboratory : Meridian
 Injection Date : Dec 19, 2020
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167

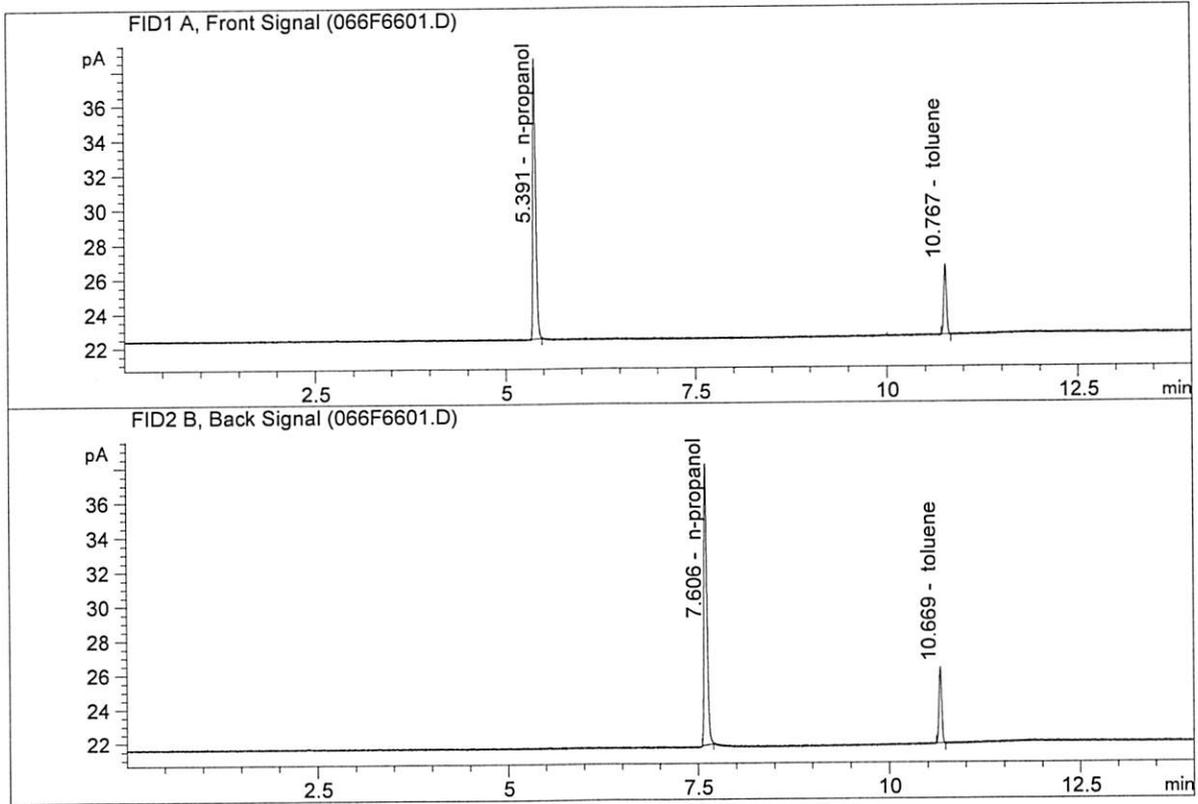


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	42.08697	1.0000	g/100cc
4.	n-Propanol	Column 2:	42.09428	1.0000	g/100cc

NB

ISP Forensic Services Blood Alcohol Report

Sample Name : TOLUNE 02007
 Laboratory : Meridian
 Injection Date : Dec 19, 2020
 Method : VOLATILES.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:	42.24756	1.0000	g/100cc
4.	n-Propanol	Column 2:	43.79959	1.0000	g/100cc

NB

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

Sequence table: C:\Chem32\1\Data\12-18-20_SAMPLES\12-18-20_SAMPLES 2020-12-18 13-44-35\12-18-20_SAMPLES.S
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 Logbook: C:\Chem32\1\Data\12-18-20_SAMPLES\12-18-20_SAMPLES 2020-12-18 13-44-35\12-18-20_SAMPLES.LOG
 Sequence start: 12/18/2020 1:59:24 PM
 Sequence Operator: SYSTEM
 Operator: SYSTEM
 Method file name: C:\Chem32\1\Data\12-18-20_SAMPLES\12-18-20_SAMPLES 2020-12-18 13-44-35\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 FN071017	-	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 FN09181807-	-	1.0000	005F0501.D		4
6	6	1	0.08 FN09181807-	-	1.0000	006F0601.D		4
7	7	1	M2020-4956-1-A	-	1.0000	007F0701.D		4
8	8	1	M2020-4956-1-B	-	1.0000	008F0801.D		4
9	9	1	M2020-4967-1-A	-	1.0000	009F0901.D		4
10	10	1	M2020-4967-1-B	-	1.0000	010F1001.D		4
11	11	1	M2020-4970-1-A	-	1.0000	011F1101.D		4
12	12	1	M2020-4970-1-B	-	1.0000	012F1201.D		4
13	13	1	M2020-4986-3-A	-	1.0000	013F1301.D		4
14	14	1	M2020-4986-3-B	-	1.0000	014F1401.D		4
15	15	1	M2020-5013-1-A	-	1.0000	015F1501.D		4
16	16	1	M2020-5013-1-B	-	1.0000	016F1601.D		4
17	17	1	M2020-5014-1-A	-	1.0000	017F1701.D		2
18	18	1	M2020-5014-1-B	-	1.0000	018F1801.D		2
19	19	1	M2020-5015-1-A	-	1.0000	019F1901.D		4
20	20	1	M2020-5015-1-B	-	1.0000	020F2001.D		4
21	21	1	M2020-5027-1-A	-	1.0000	021F2101.D		4
22	22	1	M2020-5027-1-B	-	1.0000	022F2201.D		4
23	23	1	M2020-5042-2-A	-	1.0000	023F2301.D		2
24	24	1	M2020-5042-2-B	-	1.0000	024F2401.D		2
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	M2020-5043-1-A	-	1.0000	027F2701.D		4
28	28	1	M2020-5043-1-B	-	1.0000	028F2801.D		4
29	29	1	M2020-5065-1-A	-	1.0000	029F2901.D		4
30	30	1	M2020-5065-1-B	-	1.0000	030F3001.D		4
31	31	1	M2020-5081-1-A	-	1.0000	031F3101.D		4
32	32	1	M2020-5081-1-B	-	1.0000	032F3201.D		4
33	33	1	M2020-5082-1-A	-	1.0000	033F3301.D		4
34	34	1	M2020-5082-1-B	-	1.0000	034F3401.D		4
35	35	1	M2020-5083-1-A	-	1.0000	035F3501.D		4
36	36	1	M2020-5083-1-B	-	1.0000	036F3601.D		4
37	37	1	M2020-5084-1-A	-	1.0000	037F3701.D		4
38	38	1	M2020-5084-1-B	-	1.0000	038F3801.D		4
39	39	1	M2020-5085-1-A	-	1.0000	039F3901.D		2
40	40	1	M2020-5085-1-B	-	1.0000	040F4001.D		2
41	41	1	M2020-5110-1-A	-	1.0000	041F4101.D		4
42	42	1	M2020-5110-1-B	-	1.0000	042F4201.D		4
43	43	1	M2020-5111-2-A	-	1.0000	043F4301.D		2

MB

Run #	Location #	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal #	# Cmp
44	44	1	M2020-5111-2-B	-	1.0000	044F4401.D		2
45	45	1	M2020-5112-1-A	-	1.0000	045F4501.D		4
46	46	1	M2020-5112-1-B	-	1.0000	046F4601.D		4
47	47	1	QC1-2-A	-	1.0000	047F4701.D		4
48	48	1	QC1-2-B	-	1.0000	048F4801.D		4
49	49	1	M2020-5129-1-A	-	1.0000	049F4901.D		4
50	50	1	M2020-5129-1-B	-	1.0000	050F5001.D		5
51	51	1	P2020-3600-1-A	-	1.0000	051F5101.D		4
52	52	1	P2020-3600-1-B	-	1.0000	052F5201.D		4
53	53	1	QC2-2-A	-	1.0000	053F5301.D		4
54	54	1	QC2-2-B	-	1.0000	054F5401.D		4
55	55	1	INTERNAL STD BLK	-	1.0000	055F5501.D		2
56	56	1	M2020-4781-1-QUA	-	1.0000	056F5601.D		2
57	57	1	M2020-4781-1-QUA	-	1.0000	057F5701.D		2
58	58	1	INTERNAL STD BLK	-	1.0000	058F5801.D		2
59	59	1	DFE 111914OM	-	1.0000	059F5901.D		2
60	60	1	INTERNAL STD BLK	-	1.0000	060F6001.D		2
61	61	1	TFE 111914	-	1.0000	061F6101.D		2
62	62	1	INTERNAL STD BLK	-	1.0000	062F6201.D		2

Method file name: C:\Chem32\1\Data\12-18-20_SAMPLES\12-18-20_SAMPLES 2020-12-18 13-44-35
 \VOLATILES.M

Run #	Location #	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal #	# Cmp
63	63	1	M2020-4781-1-VOL	-	1.0000	063F6301.D		2
64	64	1	M2020-4781-1-VOL	-	1.0000	064F6401.D		2
65	65	1	INTERNAL STD BLK	-	1.0000	065F6501.D		2
66	66	1	TOLUNE 02007	-	1.0000	066F6601.D		4
67	67	1	INTERNAL STD BLK	-	1.0000	067F6701.D		2

Method file name: C:\Chem32\1\Data\12-18-20_SAMPLES\12-18-20_SAMPLES 2020-12-18 13-44-35
 \SHUTDOWN.M

Run #	Location #	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal #	# Cmp
68	68	1	EMPTY	-	1.0000	068F6801.D		0