Quantitative Analysis for Ethanol & Qualitative Analysis for Other Volatiles

Analytical Method(s): 1.0

Device: Hamilton MICROLAB 503A Liquid Processor/Dilutor Serial Number: MD96BC1382/MD94AM10010

Volatiles Quality Assurance Controls

Run Date(s):10/13/17

Calibration date:10/13/17

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Jul-18	1407031	0.0780	0.0702-0.0858	0.0746 g/100cc
					0.0780 g/100cc
					g/100cc
Level 2	Jul-18	1407032	0.2020	0.1818-.2222	0.1914 g/100cc
					0.2005 g/100cc
					g/100cc

Multi-Component mixture:	**Exp date: Oct 2019**		**Lot #**	FN09231404	OK
Curve Fit:		**Column 1**	0.99992	**Column2**	0.99992

Ethanol Calibration Reference Material

Calibrator level	Expiration	Cerilliant Lot #	Target Value	Acceptable Range	Column 1	Column 2	Precision	Mean
0.050	Jul-19	FN06231406	0.050	0.045 - 0.055	0.0507	0.0532	0.0025	0.0519
0.080			0.080	0.072 - 0.088			0	#DIV/0!
0.100	Jun-19 Jul 22	FN06181501	0.100	0.090 - 0.110	0.0969	0.0970	0.0001	0.0969
0.200	Dec-19	FN12011401	0.200	0.180 - 0.220	0.2016	0.1990	0.0026	0.2003
0.300	Feb-21	FN02121601	0.300	0.270 - 0.330	0.3023	0.3002	0.0021	0.3012
0.400			0.400	0.360 - 0.440			0	#DIV/0!
0.500	Aug-19	FN07031402	0.500	0.450 - 0.550	0.4986	0.5005	0.0019	0.4995

Aqueous Controls

Control level	Expiration	Cerilliant Lot #	Target Value	Acceptable Range	Overall Results
0.080	Nov-20	FN10281510	0.08000	0.076 - 0.084	0.079 g/100cc

~Any information on this document can be changed for laboratory use, except for the precision and mean determination fomulas.

Worklist: 1950

LAB_CASE	ITEM	TASK_ID	DESCRIPTION
M2017-3971	1	93266	Alcohol Analysis
M2017-4268	6	95458	Alcohol Analysis
M2017-4334	1	95179	Alcohol Analysis
M2017-4335	1	95219	Alcohol Analysis
M2017-4380	1	95431	Alcohol Analysis
M2017-4436	1	95632	BATS Proficiency Test
M2017-4436	2	95633	BATS Proficiency Test
M2017-4436	3	95634	BATS Proficiency Test
M2017-4436	4	95635	BATS Proficiency Test
M2017-4444	1	95739	Alcohol Analysis
M2017-4445	1	95740	Alcohol Analysis
M2017-4451	1	95823	Alcohol Analysis
M2017-4452	1	95824	Alcohol Analysis
M2017-4487	1	95954	Alcohol Analysis
M2017-4505	1	96006	Alcohol Analysis
M2017-4506	1	96007	Alcohol Analysis
M2017-4507	1	96008	Alcohol Analysis
M2017-4521	1	96170	Alcohol Analysis
M2017-4523	1	96190	Alcohol Analysis
M2017-4525	1	96193	Alcohol Analysis
M2017-4558	1	96374	Alcohol Analysis
M2017-4559	1	96375	Alcohol Analysis
M2017-4560	1	96379	Alcohol Analysis

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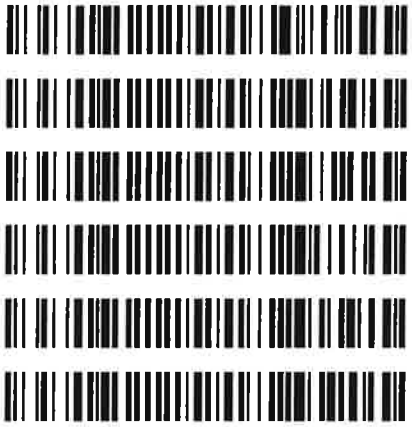
Worklist: 1950

LAB_CASE	ITEM	TASK_ID	DESCRIPTION
M2017-4561	1	96383	Alcohol Analysis
M2017-4585	1	96512	Alcohol Analysis
M2017-4586	1	96513	Alcohol Analysis
M2017-4587	1	96516	Alcohol Analysis
M2017-4588	1	96519	Alcohol Analysis
M2017-4595	1	96532	Alcohol Analysis



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Calibration Table

General Calibration Setting

Calib. Data Modified : Monday, October 16, 2017 2:06:52 PM
Signals calculated separately : No

10/13/17
Original cal curve ran ~~10/13/17~~ JG
Reprossesed 10/16/17 with Origin ignored cal curve.

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 JG
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

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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
3.073	1	1	5.00000e-2	4.23955	1.17937e-2	No	No	1	ethanol
		2	1.00000e-1	8.41727	1.18803e-2				
		3	2.00000e-1	16.50094	1.21205e-2				
		4	3.00000e-1	24.66841	1.21613e-2				
		5	5.00000e-1	41.36867	1.20864e-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	4.18562	1.19457e-2	No	No	2	ethanol
		2	1.00000e-1	8.34846	1.19783e-2				
		3	2.00000e-1	16.63815	1.20206e-2				
		4	3.00000e-1	25.06135	1.19706e-2				
		5	5.00000e-1	42.68404	1.17140e-2				
4.308	1	1	1.00000	6.49940	1.53860e-1	No	No	1	acetone
4.617	1	1	1.00000	38.99681	2.56431e-2	No	Yes	1	n-propanol
		2	1.00000	38.89522	2.57101e-2				
		3	1.00000	35.86066	2.78857e-2				
		4	1.00000	35.52140	2.81520e-2				
		5	1.00000	35.92569	2.78352e-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
7.549	2	1	1.00000	38.94828	2.56751e-2	No	Yes	2	n-propanol
		2	1.00000	38.58495	2.59168e-2				
		3	1.00000	35.41265	2.82385e-2				
		4	1.00000	34.74549	2.87807e-2				
		5	1.00000	35.01137	2.85622e-2				

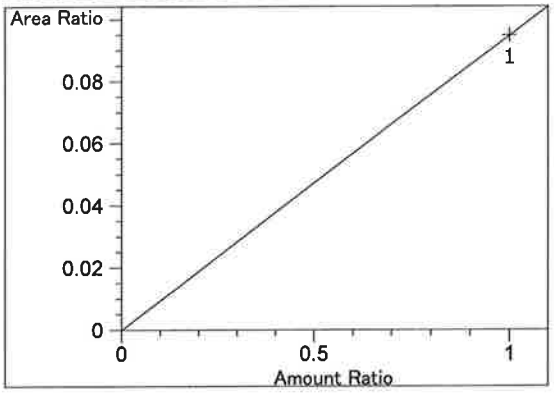
Peak Sum Table

No Entries in table

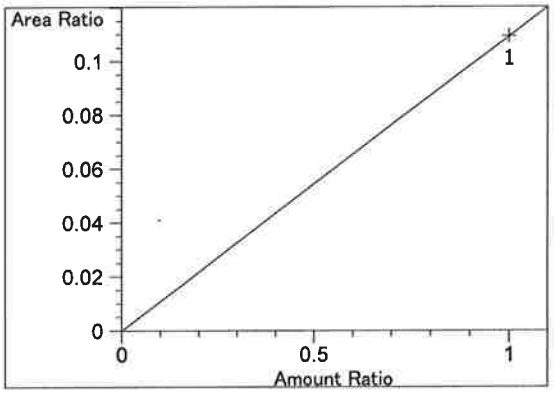
21 Warnings or Errors (10 first messages follow) :

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 4.617 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

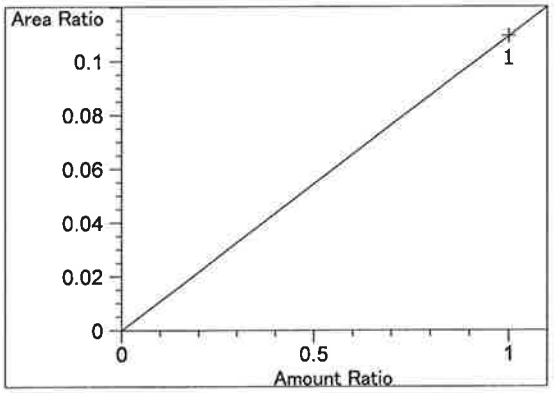
Calibration Curves



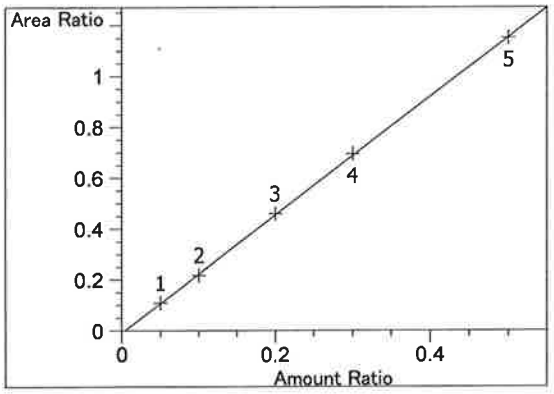
methanol at exp. RT: 2.586
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 9.47948e-2
b: 0.00000
x: Amount Ratio
y: Area Ratio



Acetaldehyde at exp. RT: 2.809
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.09401e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio

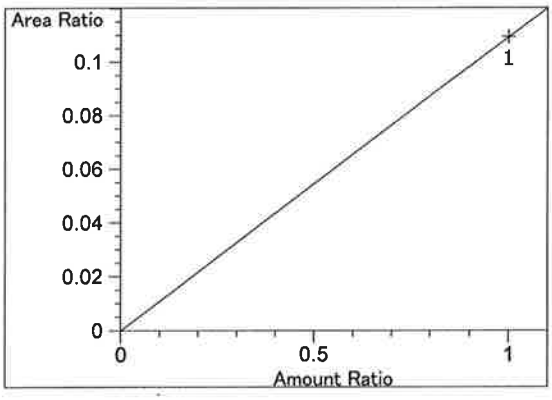


Acetaldehyde at exp. RT: 2.977
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.09401e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio

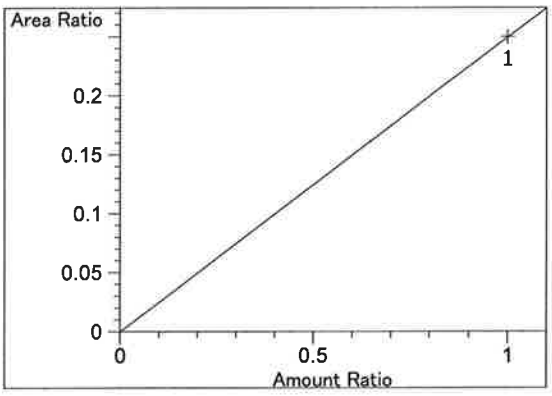


ethanol at exp. RT: 3.073
FID1 A, Front Signal
Correlation: 0.99992
Residual Std. Dev.: 0.00596
Formula: y = mx + b
m: 2.32823
b: -9.24519e-3
x: Amount Ratio
y: Area Ratio

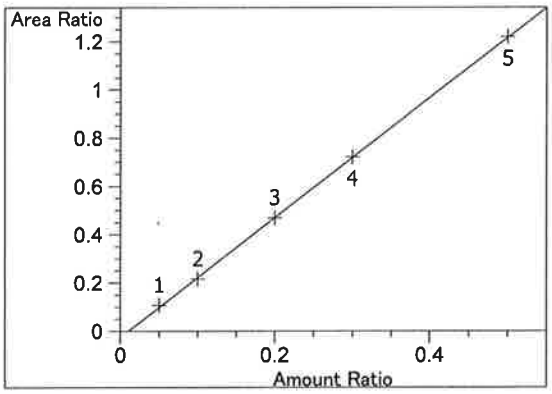
JC



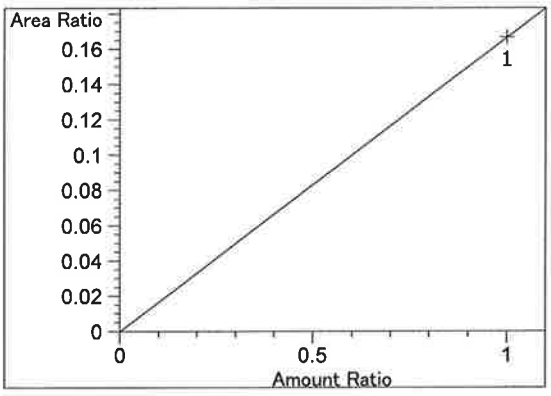
methanol at exp. RT: 3.388
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.09392e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio



isopropyl alcohol at exp. RT: 3.628
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 2.49522e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio

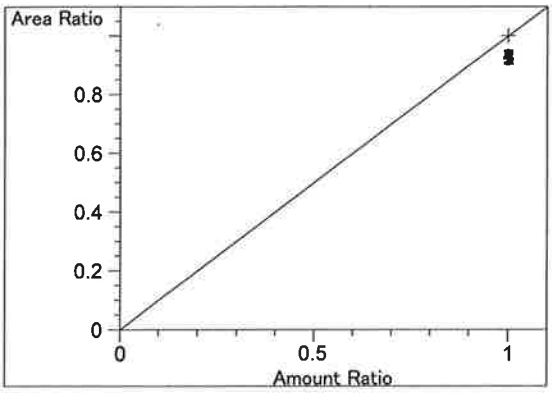


ethanol at exp. RT: 4.285
FID2 B, Back Signal
Correlation: 0.99992
Residual Std. Dev.: 0.00648
Formula: y = mx + b
m: 2.48510
b: -2.47539e-2
x: Amount Ratio
y: Area Ratio

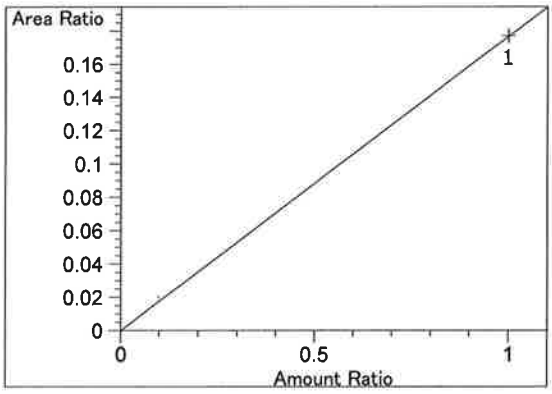


acetone at exp. RT: 4.308
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.66665e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio

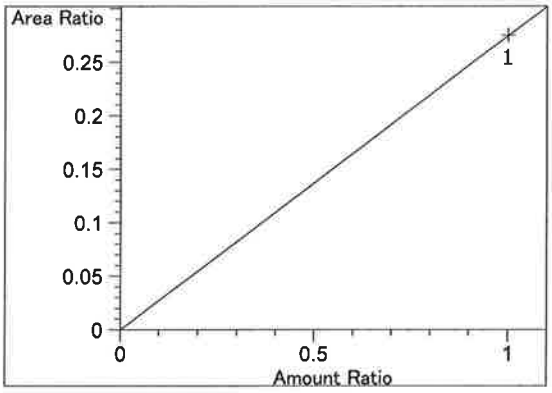
JC



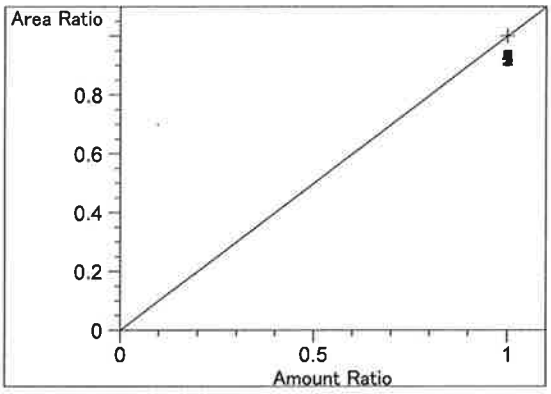
n-propanol at exp. RT: 4.617
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.00000
b: 0.00000
x: Amount Ratio
y: Area Ratio



acetone at exp. RT: 4.661
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.76979e-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: 2.74888e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio



n-propanol at exp. RT: 7.549
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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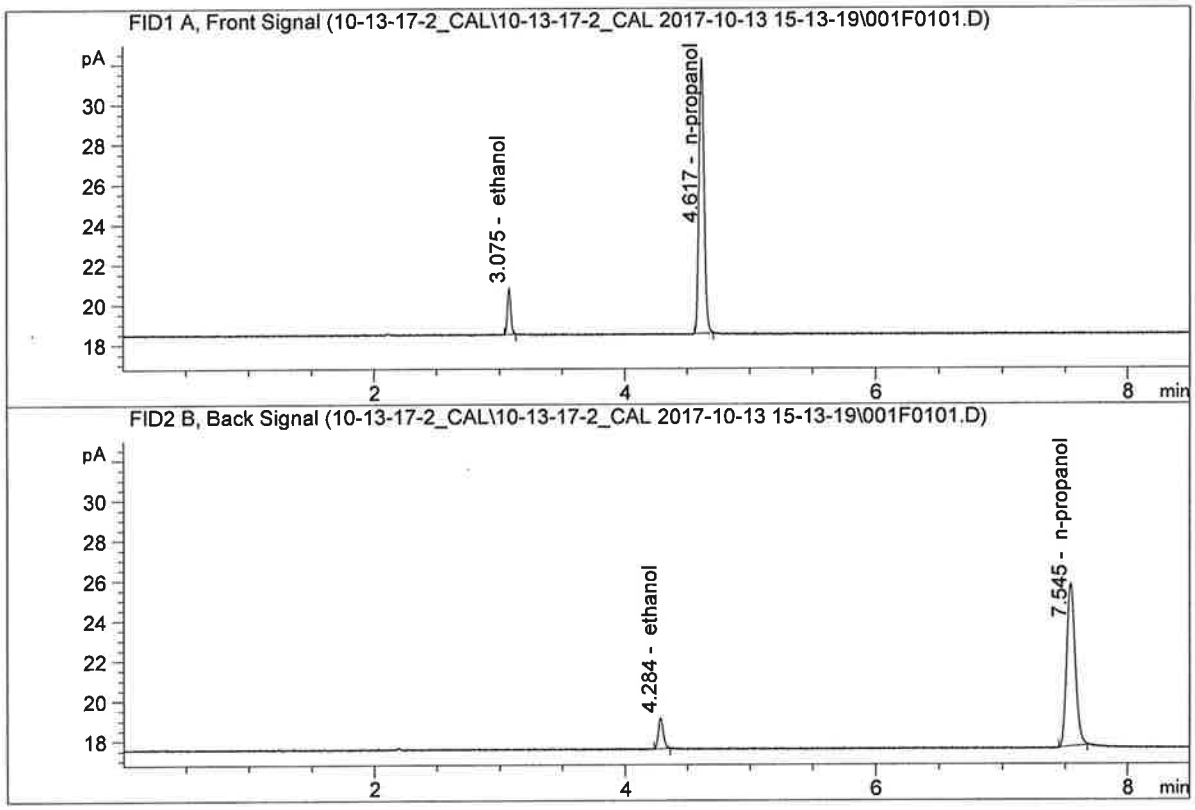
ISP Forensic Services Blood Alcohol Report

Sample Name : 0.050 FN06231406
Laboratory : Meridian
Injection Date : Oct 13, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

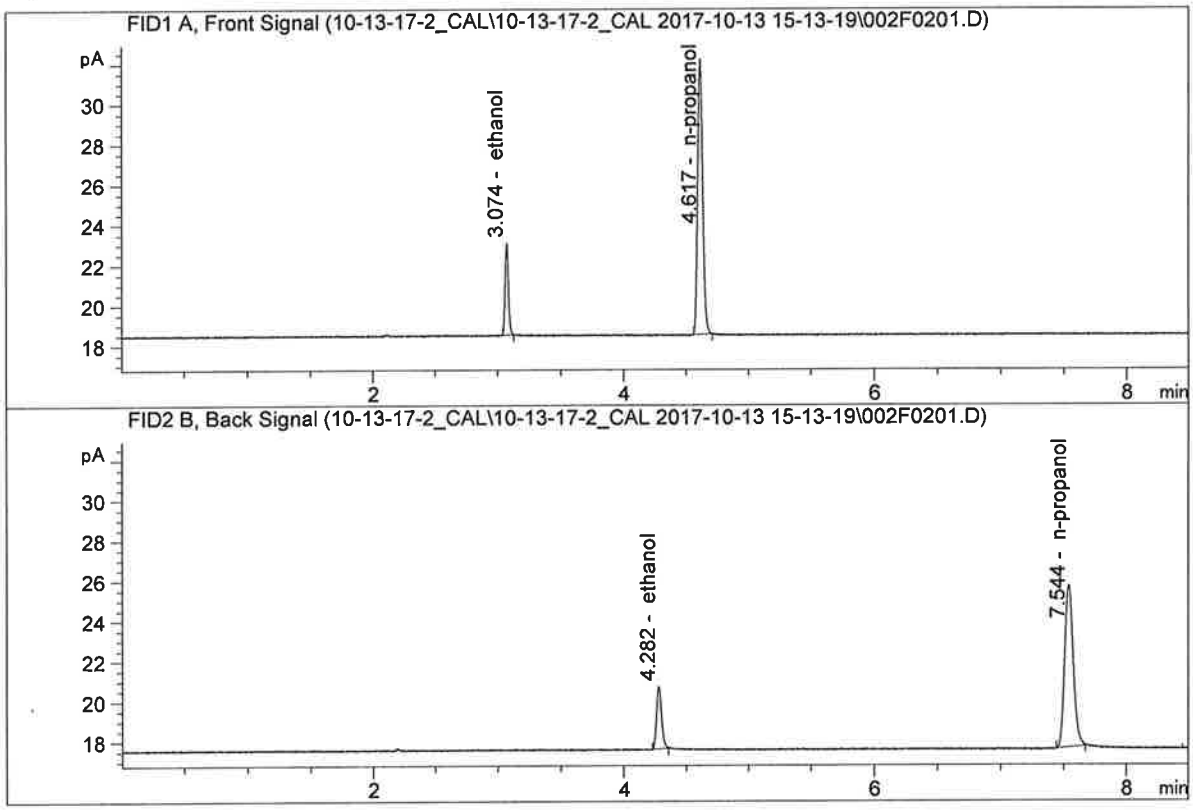


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	4.23955	0.0507	g/100cc
2.	Ethanol	Column 2:	4.18562	0.0532	g/100cc
3.	n-Propanol	Column 1:	38.99681	1.0000	g/100cc
4.	n-Propanol	Column 2:	38.94828	1.0000	g/100cc

JV

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.100 FN06181501
Laboratory : Meridian
Injection Date : Oct 13, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	8.41727	0.0969	g/100cc
2.	Ethanol	Column 2:	8.34846	0.0970	g/100cc
3.	n-Propanol	Column 1:	38.89522	1.0000	g/100cc
4.	n-Propanol	Column 2:	38.58495	1.0000	g/100cc

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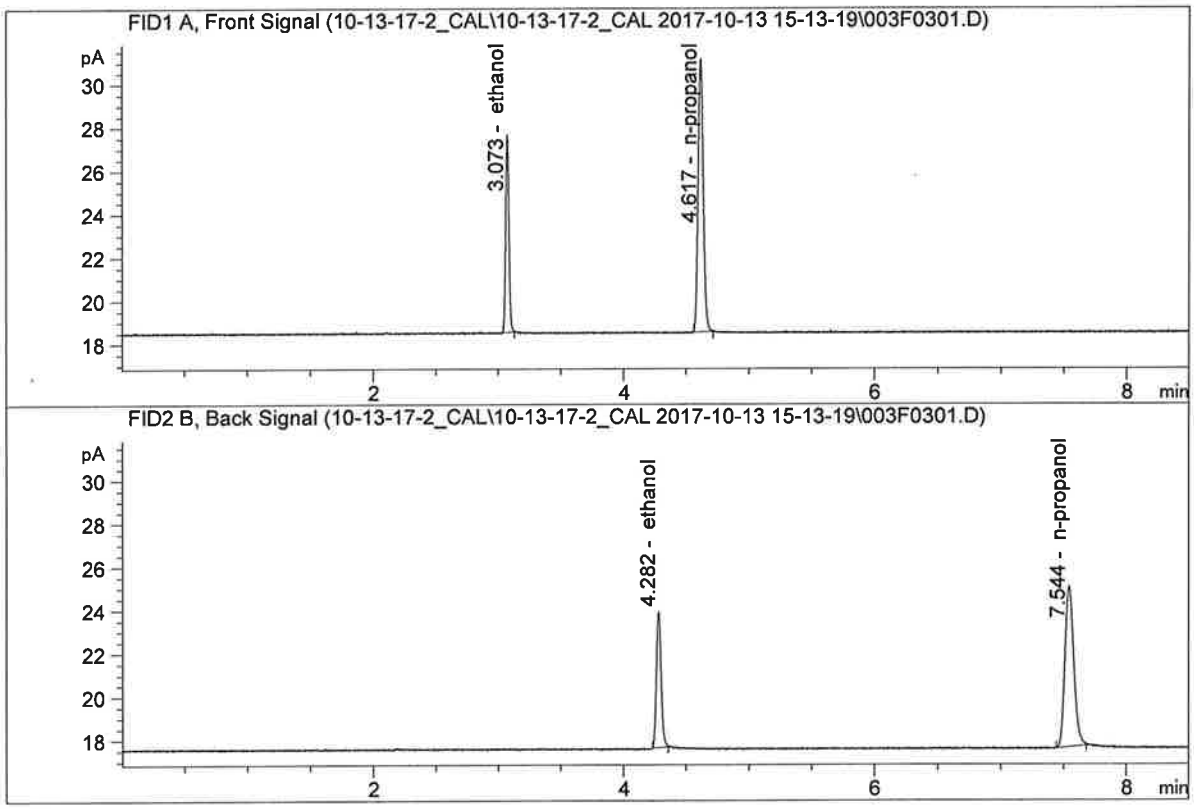
ISP Forensic Services Blood Alcohol Report

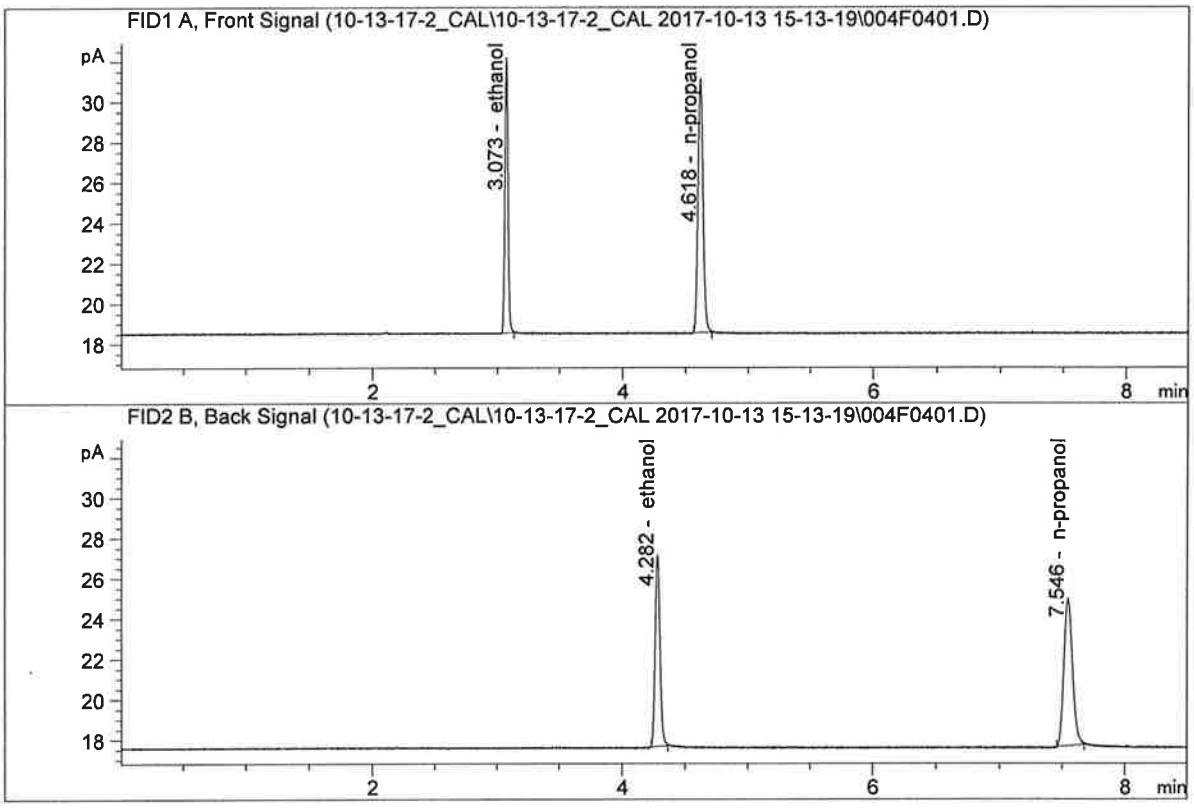
Sample Name : 0.200 FN12011401
Laboratory : Meridian
Injection Date : Oct 13, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	16.50094	0.2016	g/100cc
2.	Ethanol	Column 2:	16.63815	0.1990	g/100cc
3.	n-Propanol	Column 1:	35.86066	1.0000	g/100cc
4.	n-Propanol	Column 2:	35.41265	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

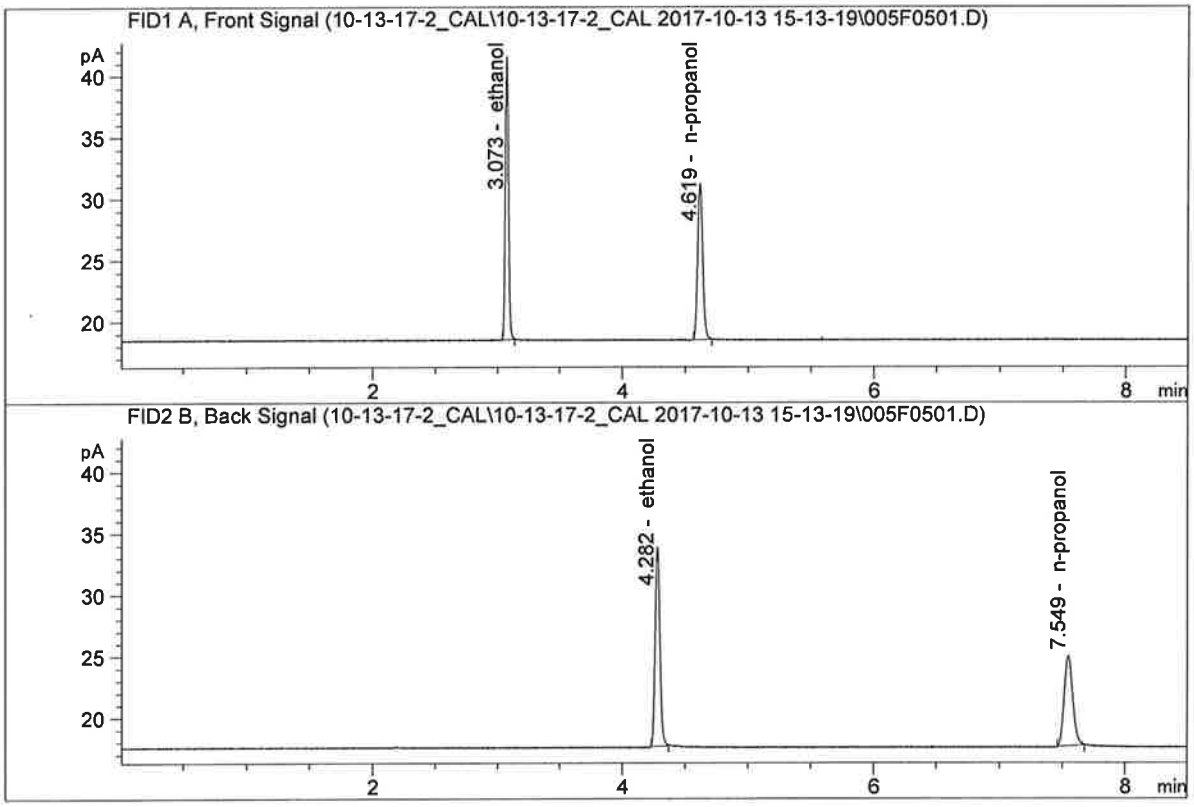
Sample Name : 0.300 FN02121601
Laboratory : Meridian
Injection Date : Oct 13, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	24.66841	0.3023	g/100cc
2.	Ethanol	Column 2:	25.06135	0.3002	g/100cc
3.	n-Propanol	Column 1:	35.52140	1.0000	g/100cc
4.	n-Propanol	Column 2:	34.74549	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.500 FN07031402
Laboratory : Meridian
Injection Date : Oct 13, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	41.36867	0.4986	g/100cc
2.	Ethanol	Column 2:	42.68404	0.5005	g/100cc
3.	n-Propanol	Column 1:	35.92569	1.0000	g/100cc
4.	n-Propanol	Column 2:	35.01137	1.0000	g/100cc

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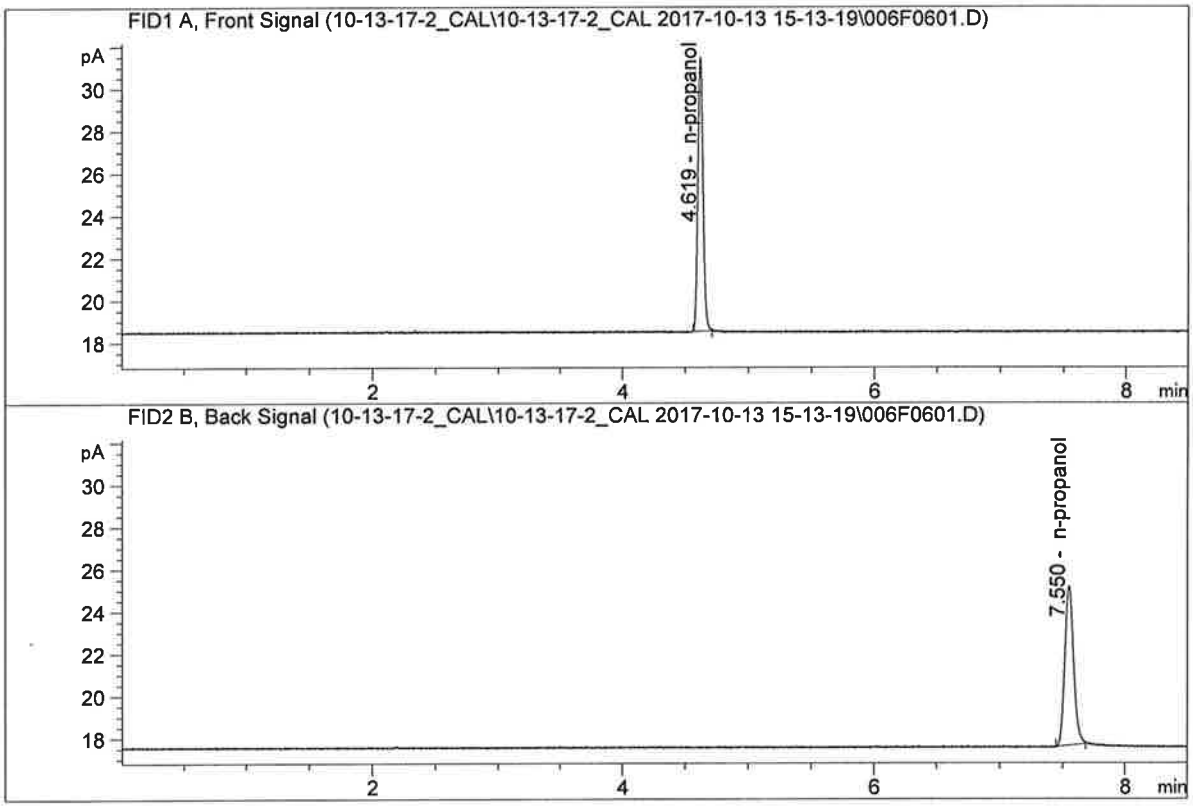
ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STANDARD BLANK
Laboratory : Meridian
Injection Date : Oct 13, 2017
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:	36.66793	1.0000	g/100cc
4.	n-Propanol	Column 2:	36.09097	1.0000	g/100cc

JG

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

Sequence table: C:\Chem32\1\Data\10-13-17-2_CAL\10-13-17-2_CAL 2017-10-13 15-13-19\10-13-17-2_CAL.S
Data directory path: C:\Chem32\1\Data\10-13-17-2_CAL\10-13-17-2_CAL 2017-10-13 15-13-19\
Logbook: C:\Chem32\1\Data\10-13-17-2_CAL\10-13-17-2_CAL 2017-10-13 15-13-19\10-13-17-2_CAL.LOG
Sequence start: 10/13/2017 3:27:56 PM
Sequence Operator: SYSTEM
Operator: SYSTEM

Method file name: C:\Chem32\1\Data\10-13-17-2_CAL\10-13-17-2_CAL 2017-10-13 15-13-19\ALCOHO.M

Run #	Location #	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal	# Cmp
1	1	1	0.050 FN06231406	-	1.0000	001F0101.D	*	4
2	2	1	0.100 FN06181501	-	1.0000	002F0201.D	*	4
3	3	1	0.200 FN12011401	-	1.0000	003F0301.D	*	4
4	4	1	0.300 FN02121601	-	1.0000	004F0401.D	*	4
5	5	1	0.500 FN07031402	-	1.0000	005F0501.D	*	4
6	6	1	INTERNAL STANDAR	-	1.0000	006F0601.D		2

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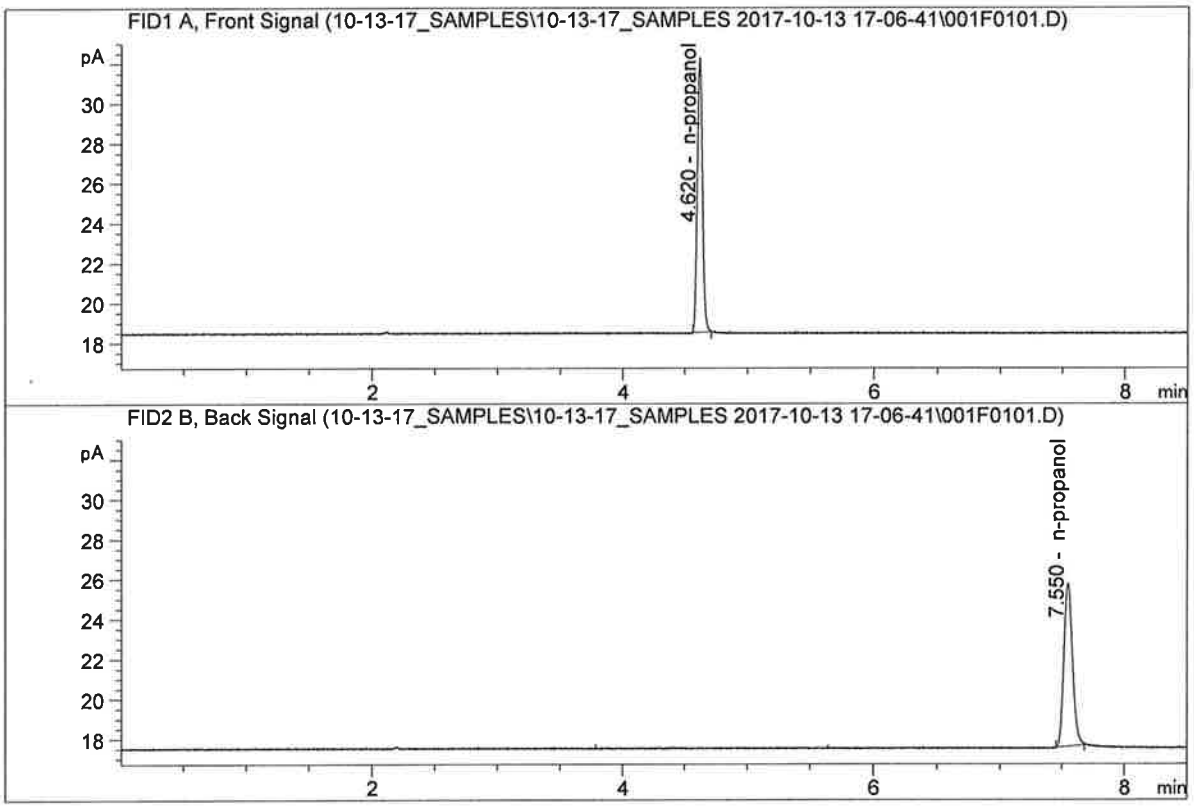
ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK 1
Laboratory : Meridian
Injection Date : Oct 13, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

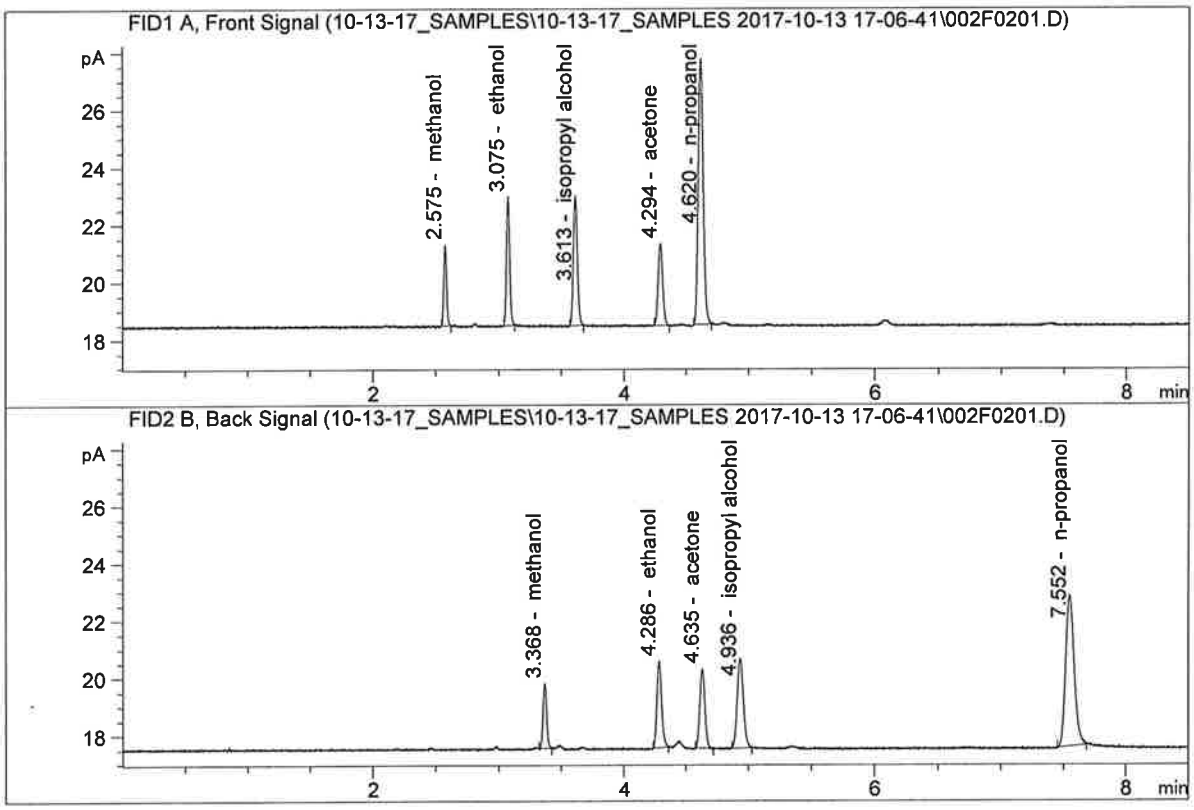


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	39.20773	1.0000	g/100cc
4.	n-Propanol	Column 2:	39.06307	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : MIX VOL FN09231404
Laboratory : Meridian
Injection Date : Oct 13, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	8.07107	0.1369	g/100cc
2.	Ethanol	Column 2:	8.00757	0.1370	g/100cc
3.	n-Propanol	Column 1:	26.07787	1.0000	g/100cc
4.	n-Propanol	Column 2:	25.35451	1.0000	g/100cc

JG

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-1 **Analysis Date(s): 10/13/2017**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0741	0.0754	0.0013	0.0747	0.0746	
(g/100cc)	0.0738	0.0754	0.0016	0.0746		

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:
MD96BC1382/MD94AM10010

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**

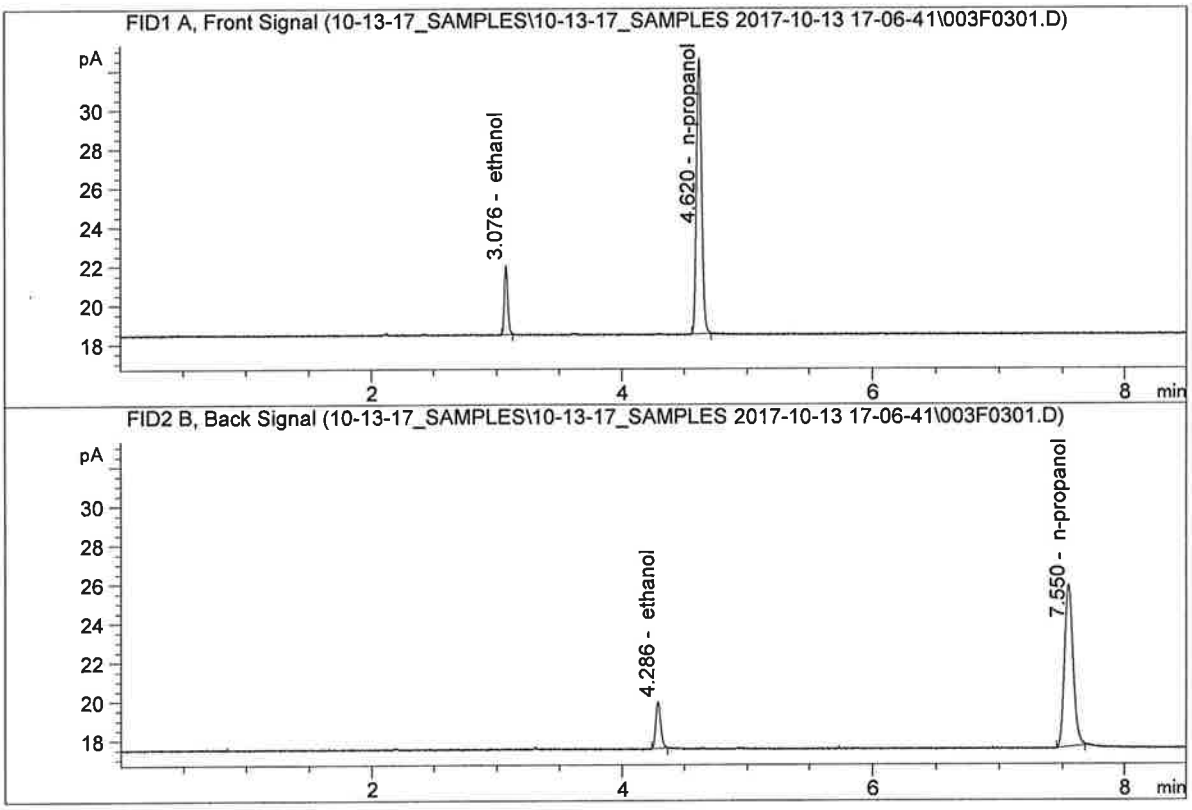
	Reported Result	
	0.074	

Calibration and control data are stored centrally.

JC

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-1-A
Laboratory : Meridian
Injection Date : Oct 13, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

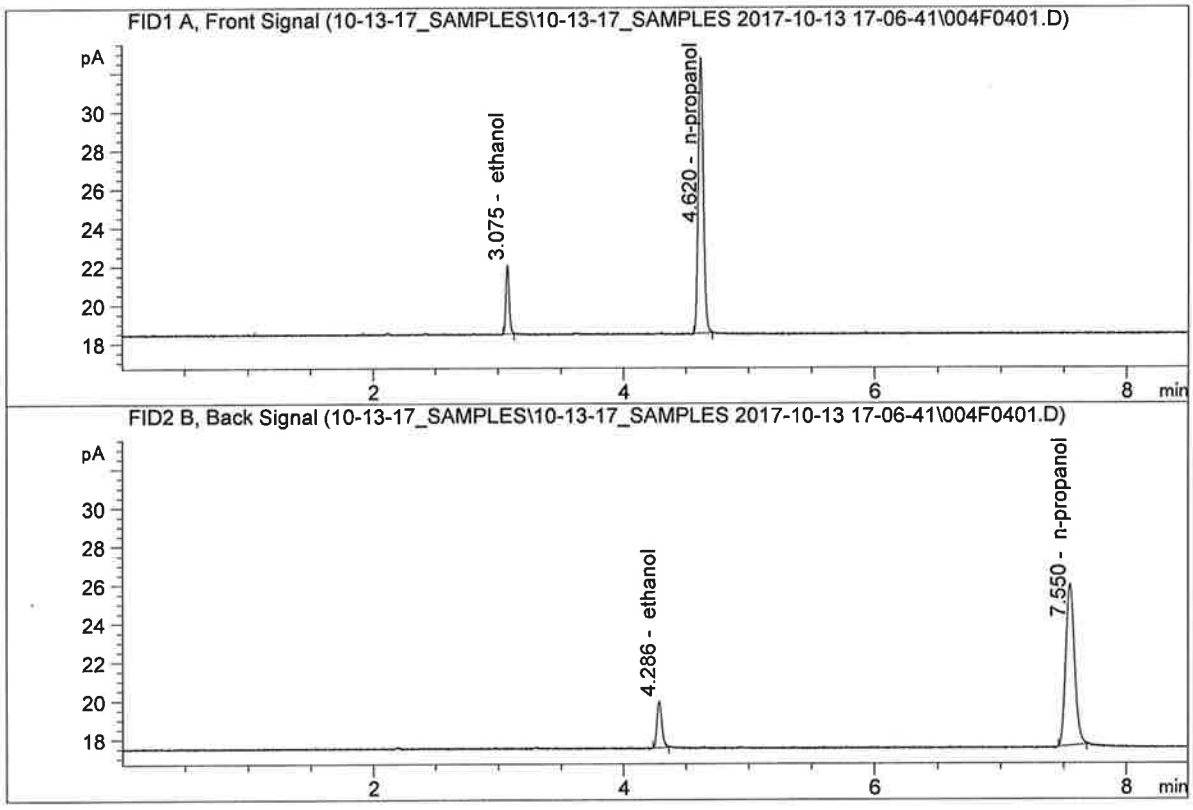


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.56938	0.0741	g/100cc
2.	Ethanol	Column 2:	6.45894	0.0754	g/100cc
3.	n-Propanol	Column 1:	40.24399	1.0000	g/100cc
4.	n-Propanol	Column 2:	39.72418	1.0000	g/100cc

JC

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-1-B
Laboratory : Meridian
Injection Date : Oct 13, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.59648	0.0738	g/100cc
2.	Ethanol	Column 2:	6.52230	0.0754	g/100cc
3.	n-Propanol	Column 1:	40.60257	1.0000	g/100cc
4.	n-Propanol	Column 2:	40.10909	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 0.08 FN10281510 **Analysis Date(s): 10/13/2017**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0779	0.0790	0.0011	0.0784	0.0795	
(g/100cc)	0.0800	0.0811	0.0011	0.0805		

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:
MD96BC1382/MD94AM10010

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

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

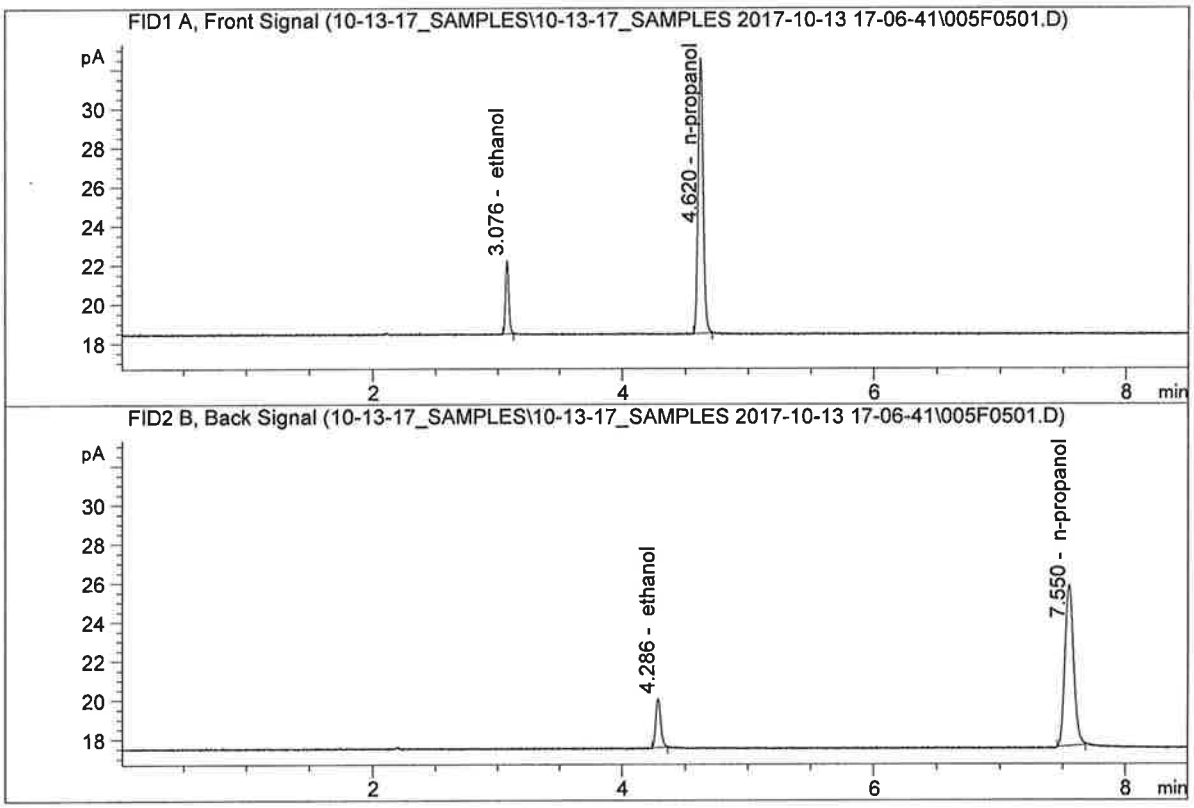
	Reported Result	
	0.079	

Calibration and control data are stored centrally.

JC

ISP Forensic Services Blood Alcohol Report

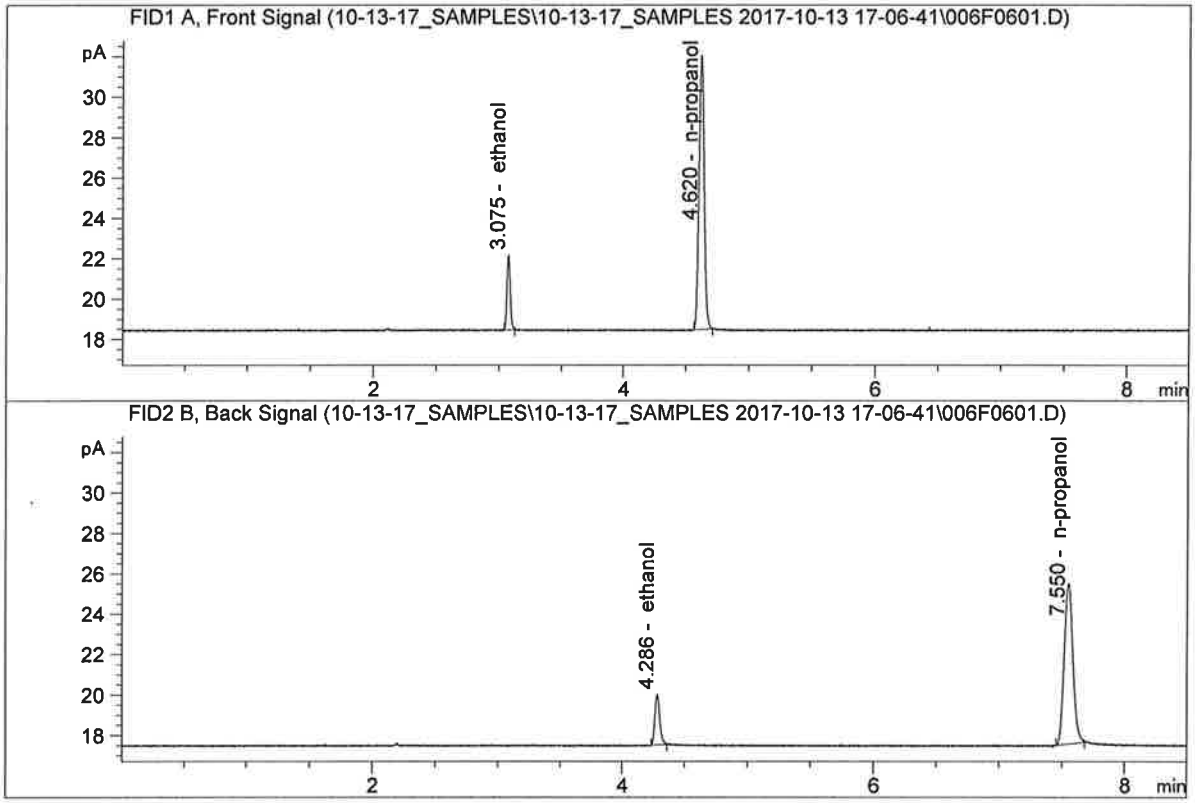
Sample Name : 0.08 FN10281510-A
Laboratory : Meridian
Injection Date : Oct 13, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.88555	0.0779	g/100cc
2.	Ethanol	Column 2:	6.78041	0.0790	g/100cc
3.	n-Propanol	Column 1:	39.98458	1.0000	g/100cc
4.	n-Propanol	Column 2:	39.54374	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN10281510-B
Laboratory : Meridian
Injection Date : Oct 13, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.84116	0.0800	g/100cc
2.	Ethanol	Column 2:	6.73525	0.0811	g/100cc
3.	n-Propanol	Column 1:	38.64772	1.0000	g/100cc
4.	n-Propanol	Column 2:	38.11644	1.0000	g/100cc

JG

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC2-1 **Analysis Date(s): 10/13/2017**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.1917	0.1917	0.0000	0.1917	0.1914	
(g/100cc)	0.1914	0.1909	0.0005	0.1911		

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:
MD96BC1382/MD94AM10010

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

Overall Mean (g/100cc)	Low	High	5% of Mean
0.191	**0.181**	**0.201**	**0.010**

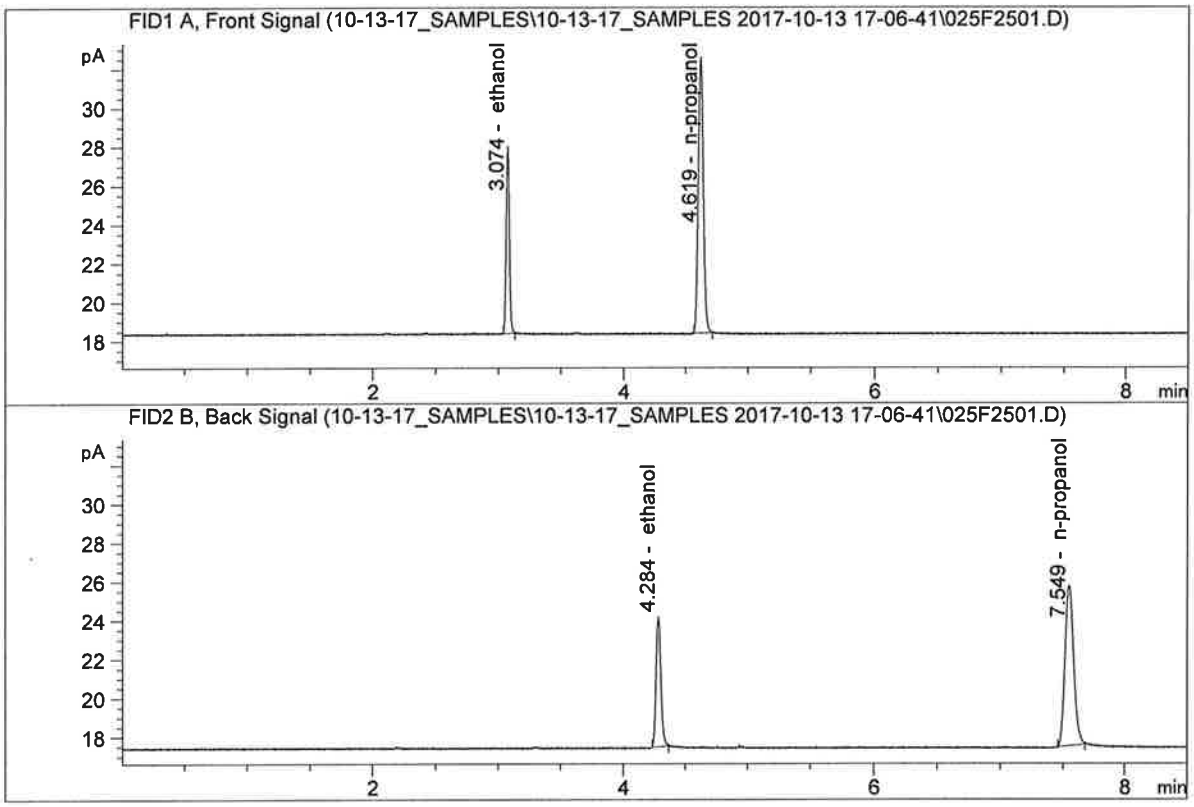
	Reported Result	
	0.191	

Calibration and control data are stored centrally.

JC

ISP Forensic Services Blood Alcohol Report

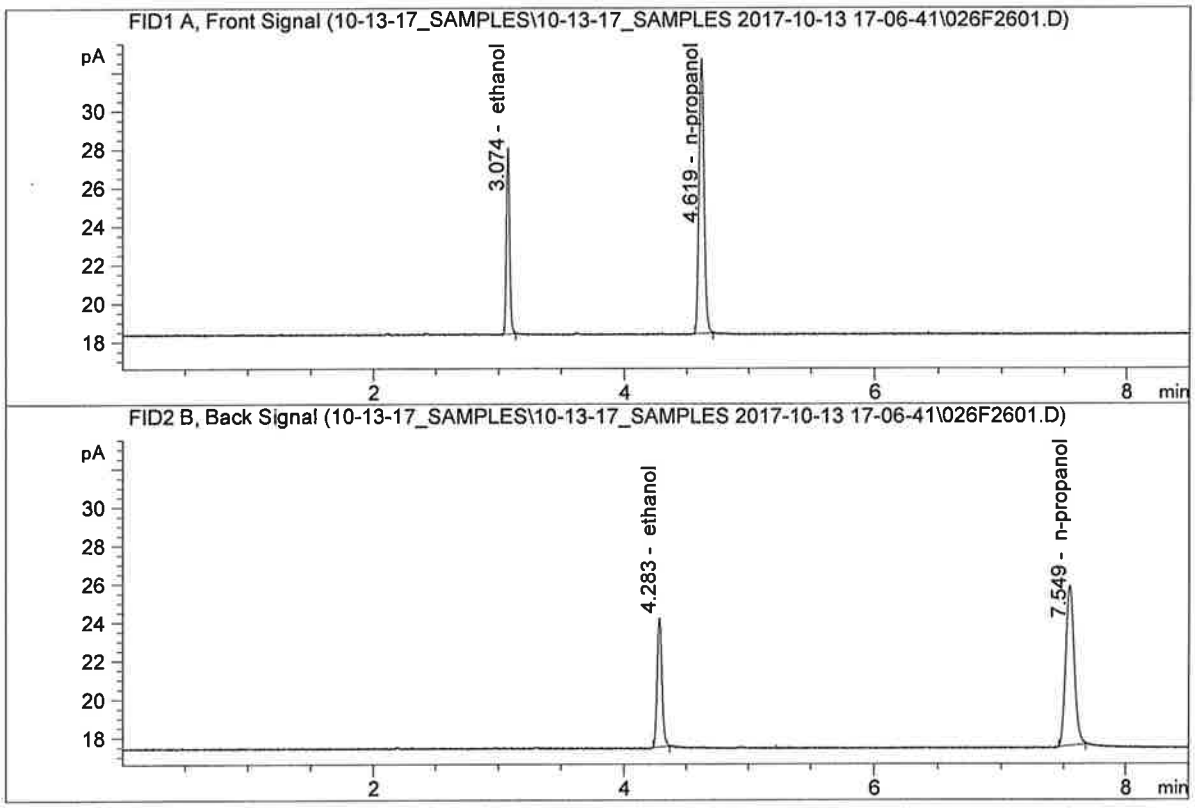
Sample Name : QC2-1-A
Laboratory : Meridian
Injection Date : Oct 13, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	17.64541	0.1917	g/100cc
2.	Ethanol	Column 2:	17.83163	0.1917	g/100cc
3.	n-Propanol	Column 1:	40.37882	1.0000	g/100cc
4.	n-Propanol	Column 2:	39.49007	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-1-B
Laboratory : Meridian
Injection Date : Oct 13, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	17.76720	0.1914	g/100cc
2.	Ethanol	Column 2:	17.89895	0.1909	g/100cc
3.	n-Propanol	Column 1:	40.71914	1.0000	g/100cc
4.	n-Propanol	Column 2:	39.80863	1.0000	g/100cc

JL

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-2 **Analysis Date(s): 10/13/2017**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0775	0.0780	0.0005	0.0777	0.0780	
(g/100cc)	0.0779	0.0788	0.0009	0.0783		

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:
MD96BC1382/MD94AM10010

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

Overall Mean (g/100cc)	Low	High	5% of Mean
0.078	**0.074**	**0.082**	**0.004**

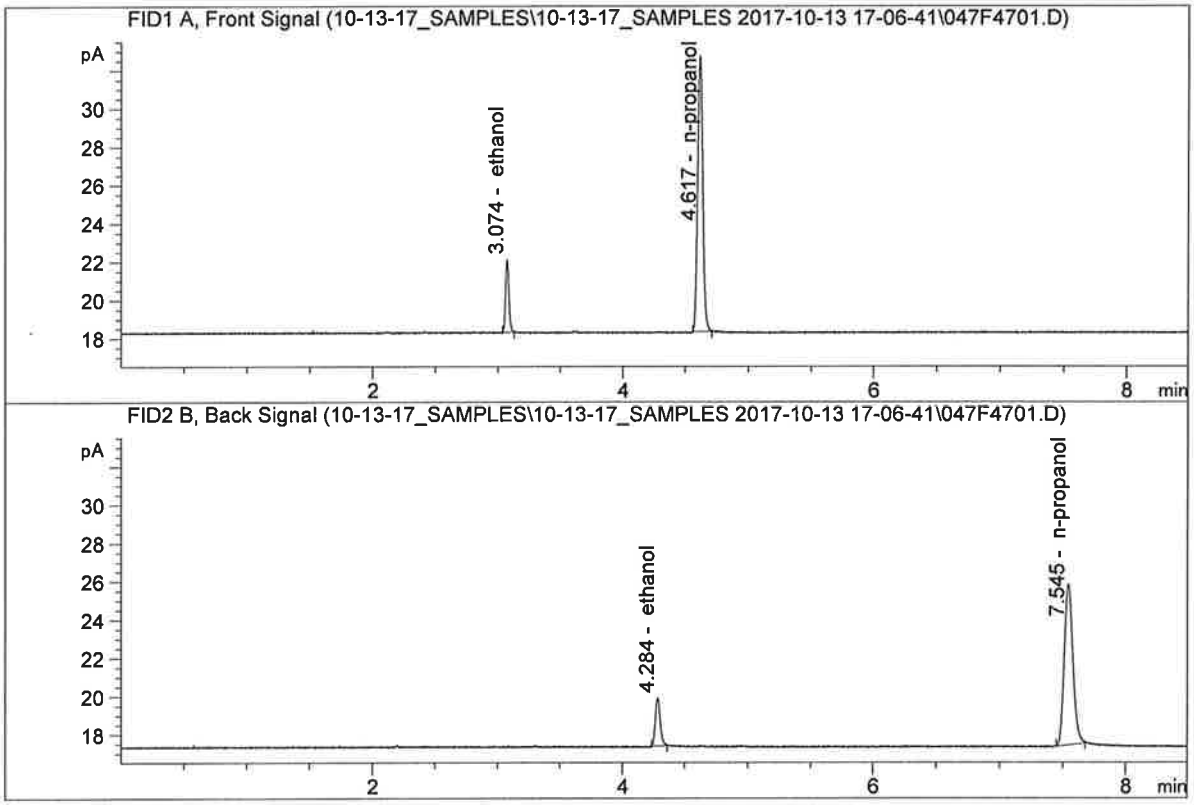
	Reported Result	
	0.078	

Calibration and control data are stored centrally.

JG

ISP Forensic Services Blood Alcohol Report

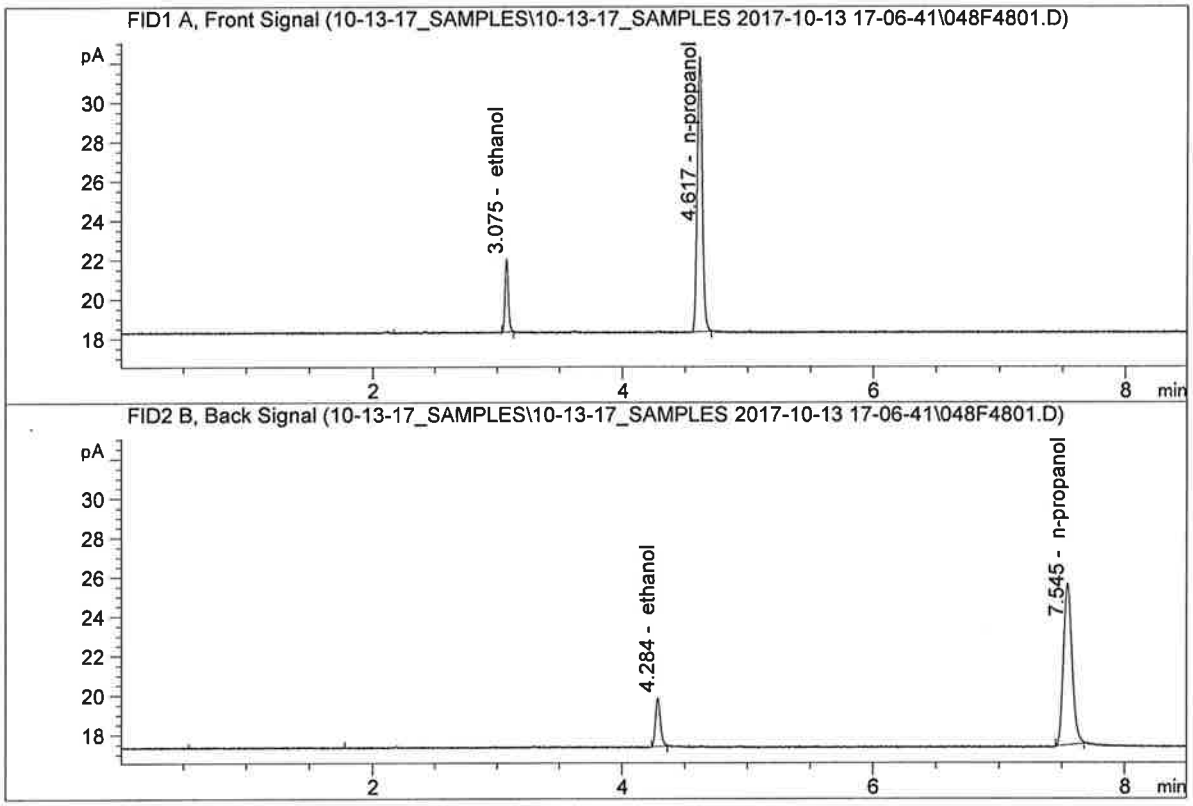
Sample Name : QC1-2-A
Laboratory : Meridian
Injection Date : Oct 14, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.99772	0.0775	g/100cc
2.	Ethanol	Column 2:	6.80565	0.0780	g/100cc
3.	n-Propanol	Column 1:	40.89199	1.0000	g/100cc
4.	n-Propanol	Column 2:	40.22314	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-2-B
Laboratory : Meridian
Injection Date : Oct 14, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.81607	0.0779	g/100cc
2.	Ethanol	Column 2:	6.64392	0.0788	g/100cc
3.	n-Propanol	Column 1:	39.61340	1.0000	g/100cc
4.	n-Propanol	Column 2:	38.80876	1.0000	g/100cc

JG

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC2-2 **Analysis Date(s): 10/13/2017**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.2011	0.2009	0.0002	0.2010	0.2005	
(g/100cc)	0.2002	0.2001	0.0001	0.2001		

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:
MD96BC1382/MD94AM10010

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**

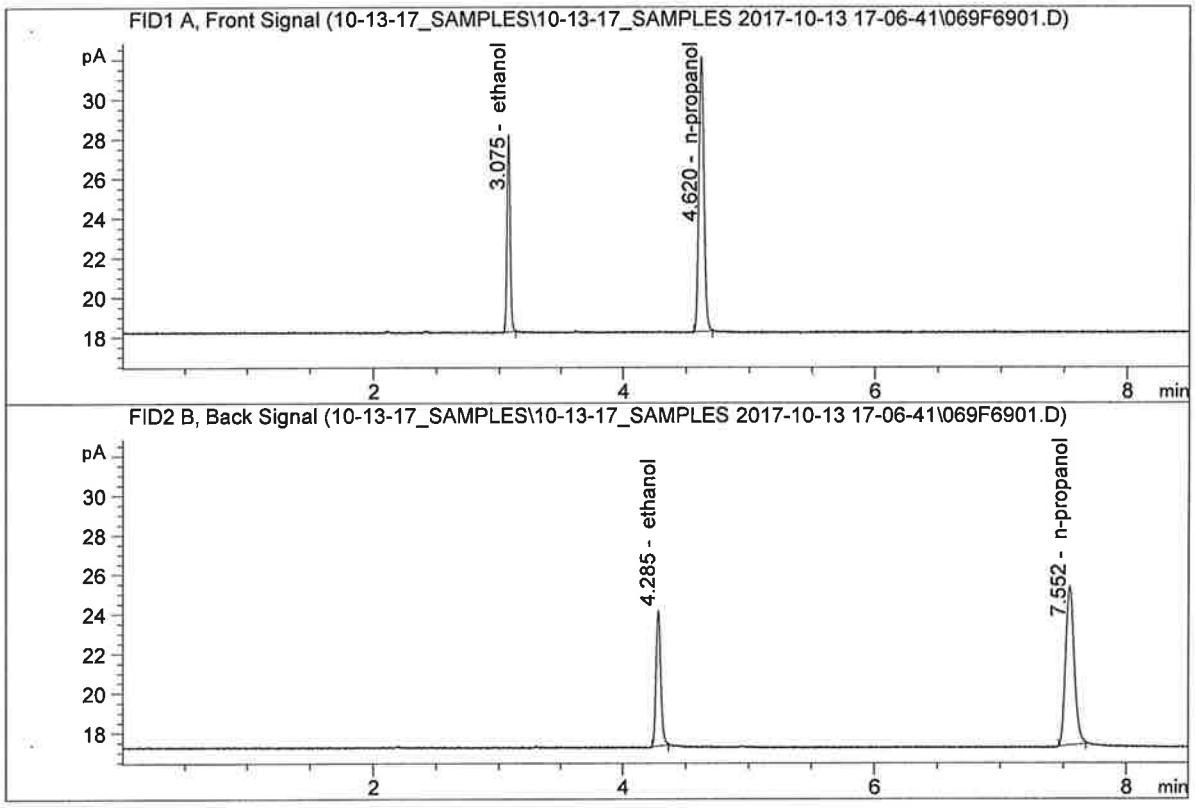
	Reported Result	
	0.200	

Calibration and control data are stored centrally.

JC

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-2-A
Laboratory : Meridian
Injection Date : Oct 14, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

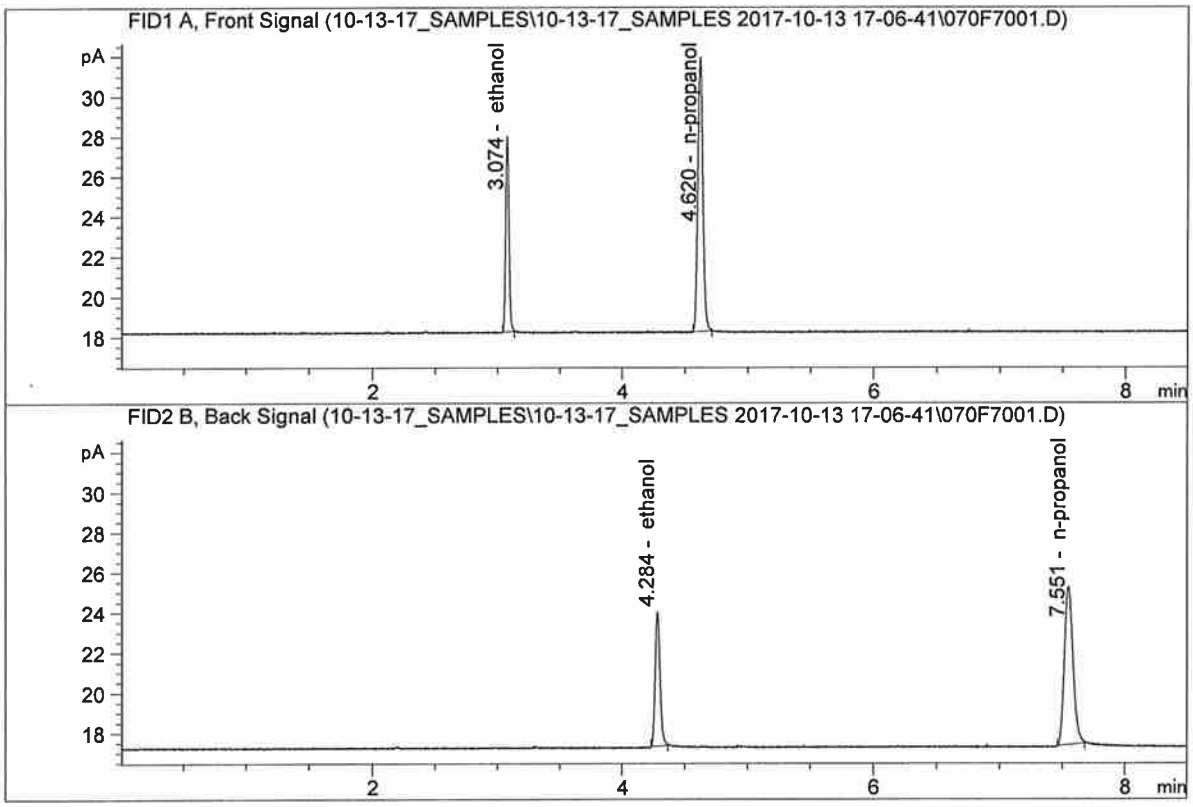


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	17.97155	0.2011	g/100cc
2.	Ethanol	Column 2:	18.06785	0.2009	g/100cc
3.	n-Propanol	Column 1:	39.15340	1.0000	g/100cc
4.	n-Propanol	Column 2:	38.06971	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-2-B
Laboratory : Meridian
Injection Date : Oct 14, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

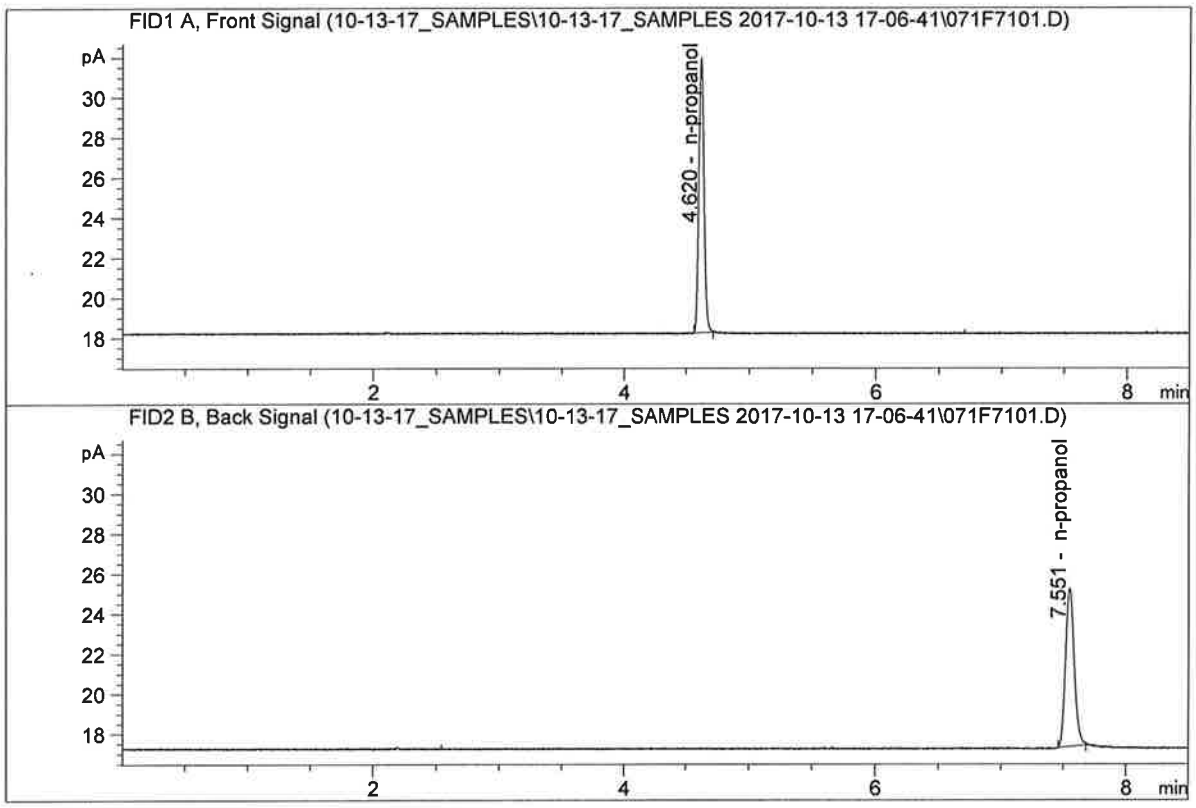


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	17.70248	0.2002	g/100cc
2.	Ethanol	Column 2:	17.76832	0.2001	g/100cc
3.	n-Propanol	Column 1:	38.74310	1.0000	g/100cc
4.	n-Propanol	Column 2:	37.61120	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK
Laboratory : Meridian
Injection Date : Oct 14, 2017
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:	38.84170	1.0000	g/100cc
4.	n-Propanol	Column 2:	37.82235	1.0000	g/100cc

JC

Sequence File C:\Chem32\...7_SAMPLES\10-13-17_SAMPLES 2017-10-13 17-06-41\10-13-17_SAMPLES.S

Sample Summary

Sequence table: C:\Chem32\1\Data\10-13-17_SAMPLES\10-13-17_SAMPLES 2017-10-13 17-06-41\10 13-17_SAMPLES.S
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Logbook: C:\Chem32\1\Data\10-13-17_SAMPLES\10-13-17_SAMPLES 2017-10-13 17-06-41\10 13-17_SAMPLES.LOG
Sequence start: 10/13/2017 5:21:31 PM
Sequence Operator: SYSTEM
Operator: SYSTEM

Method file name: C:\Chem32\1\Data\10-13-17_SAMPLES\10-13-17_SAMPLES 2017-10-13 17-06-41 \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 FN092314	-	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 FN10281510-	-	1.0000	005F0501.D	4
6	6	1	0.08 FN10281510-	-	1.0000	006F0601.D	4
7	7	1	M2017-3971-1-A	-	1.0000	007F0701.D	6
8	8	1	M2017-3971-1-B	-	1.0000	008F0801.D	6
9	9	1	M2017-4268-6-A	-	1.0000	009F0901.D	2
10	10	1	M2017-4268-6-B	-	1.0000	010F1001.D	2
11	11	1	M2017-4334-1-A	-	1.0000	011F1101.D	6
12	12	1	M2017-4334-1-B	-	1.0000	012F1201.D	6
13	13	1	M2017-4335-1-A	-	1.0000	013F1301.D	6
14	14	1	M2017-4335-1-B	-	1.0000	014F1401.D	6
15	15	1	M2017-4380-1-A	-	1.0000	015F1501.D	4
16	16	1	M2017-4380-1-B	-	1.0000	016F1601.D	4
17	17	1	M2017-4436-1-A	-	1.0000	017F1701.D	4
18	18	1	M2017-4436-1-B	-	1.0000	018F1801.D	4
19	19	1	M2017-4436-2-A	-	1.0000	019F1901.D	5
20	20	1	M2017-4436-2-B	-	1.0000	020F2001.D	6
21	21	1	M2017-4436-3-A	-	1.0000	021F2101.D	6
22	22	1	M2017-4436-3-B	-	1.0000	022F2201.D	6
23	23	1	M2017-4436-4-A	-	1.0000	023F2301.D	6
24	24	1	M2017-4436-4-B	-	1.0000	024F2401.D	5
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	M2017-4444-1-A	-	1.0000	027F2701.D	2
28	28	1	M2017-4444-1-B	-	1.0000	028F2801.D	2
29	29	1	M2017-4445-1-A	-	1.0000	029F2901.D	2
30	30	1	M2017-4445-1-B	-	1.0000	030F3001.D	2
31	31	1	M2017-4451-1-A	-	1.0000	031F3101.D	6
32	32	1	M2017-4451-1-B	-	1.0000	032F3201.D	6
33	33	1	M2017-4452-1-A	-	1.0000	033F3301.D	5
34	34	1	M2017-4452-1-B	-	1.0000	034F3401.D	4
35	35	1	M2017-4487-1-A	-	1.0000	035F3501.D	6
36	36	1	M2017-4487-1-B	-	1.0000	036F3601.D	6
37	37	1	M2017-4505-1-A	-	1.0000	037F3701.D	6
38	38	1	M2017-4505-1-B	-	1.0000	038F3801.D	6
39	39	1	M2017-4506-1-A	-	1.0000	039F3901.D	2
40	40	1	M2017-4506-1-B	-	1.0000	040F4001.D	2
41	41	1	M2017-4507-1-A	-	1.0000	041F4101.D	6
42	42	1	M2017-4507-1-B	-	1.0000	042F4201.D	6
43	43	1	M2017-4521-1-A	-	1.0000	043F4301.D	2

Sequence File C:\Chem32\...7_SAMPLES\10-13-17_SAMPLES 2017-10-13 17-06-41\10-13-17_SAMPLES.S

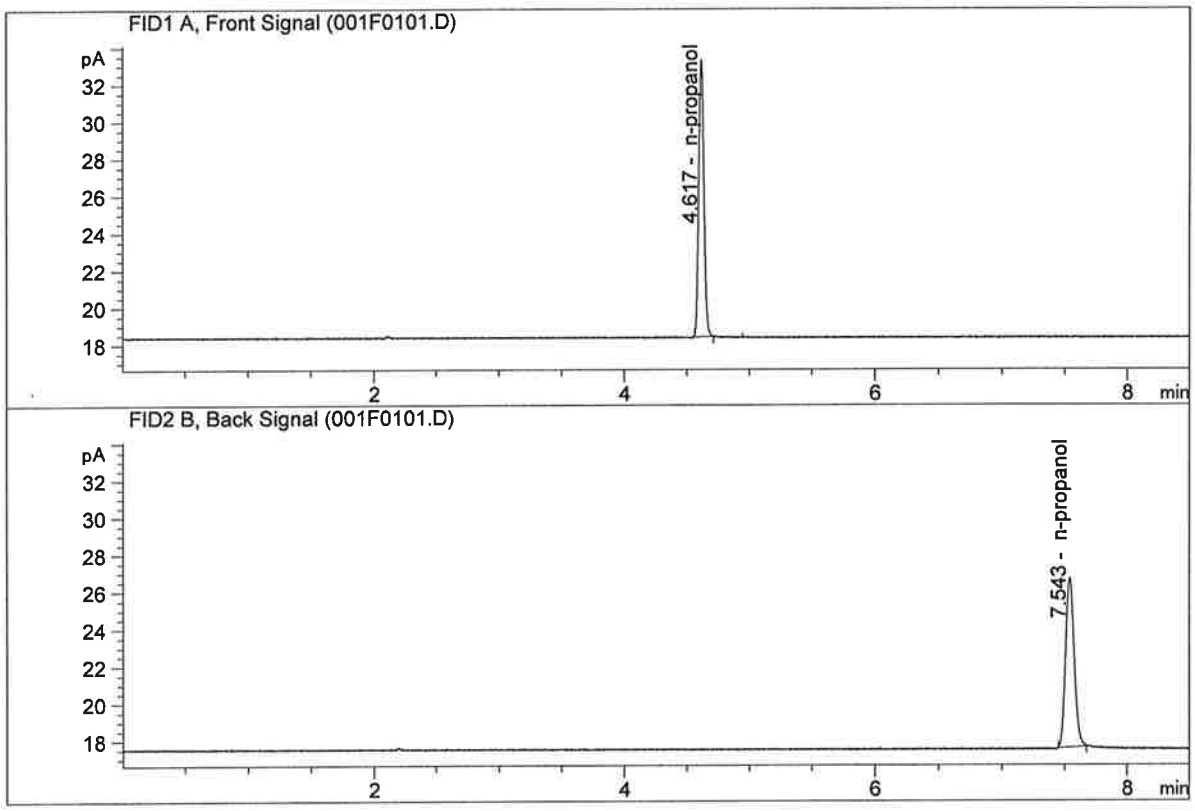
Run #	Location #	Inj	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal	# Cmp
44	44	1	M2017-4521-1-B	-	1.0000	044F4401.D		2
45	45	1	M2017-4523-1-A	-	1.0000	045F4501.D		6
46	46	1	M2017-4523-1-B	-	1.0000	046F4601.D		6
47	47	1	QC1-2-A	-	1.0000	047F4701.D		4
48	48	1	QC1-2-B	-	1.0000	048F4801.D		4
49	49	1	M2017-4525-1-A	-	1.0000	049F4901.D		6
50	50	1	M2017-4525-1-B	-	1.0000	050F5001.D		6
51	51	1	M2017-4558-1-A	-	1.0000	051F5101.D		6
52	52	1	M2017-4558-1-B	-	1.0000	052F5201.D		6
53	53	1	M2017-4559-1-A	-	1.0000	053F5301.D		2
54	54	1	M2017-4559-1-B	-	1.0000	054F5401.D		2
55	55	1	M2017-4560-1-A	-	1.0000	055F5501.D		2
56	56	1	M2017-4560-1-B	-	1.0000	056F5601.D		2
57	57	1	M2017-4561-1-A	-	1.0000	057F5701.D		4
58	58	1	M2017-4561-1-B	-	1.0000	058F5801.D		4
59	59	1	M2017-4585-1-A	-	1.0000	059F5901.D		4
60	60	1	M2017-4585-1-B	-	1.0000	060F6001.D		5
61	61	1	M2017-4586-1-A	-	1.0000	061F6101.D		2
62	62	1	M2017-4586-1-B	-	1.0000	062F6201.D		2
63	63	1	M2017-4587-1-A	-	1.0000	063F6301.D		2
64	64	1	M2017-4587-1-B	-	1.0000	064F6401.D		2
65	65	1	M2017-4588-1-A	-	1.0000	065F6501.D		2
66	66	1	M2017-4588-1-B	-	1.0000	066F6601.D		2
67	67	1	M2017-4595-1-A	-	1.0000	067F6701.D		2
68	68	1	M2017-4595-1-B	-	1.0000	068F6801.D		2
69	69	1	QC2-2-A	-	1.0000	069F6901.D		4
70	70	1	QC2-2-B	-	1.0000	070F7001.D		4
71	71	1	INTERNAL STD BLK	-	1.0000	071F7101.D		2

Method file name: C:\Chem32\1\Data\10-13-17_SAMPLES\10-13-17_SAMPLES 2017-10-13 17-06-41\SHUTDOWN.M

Run #	Location #	Inj	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal	# Cmp
72	72	1	EMPTY	-	1.0000	072F7201.D		0

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK 1
Laboratory : Meridian
Injection Date : Oct 17, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

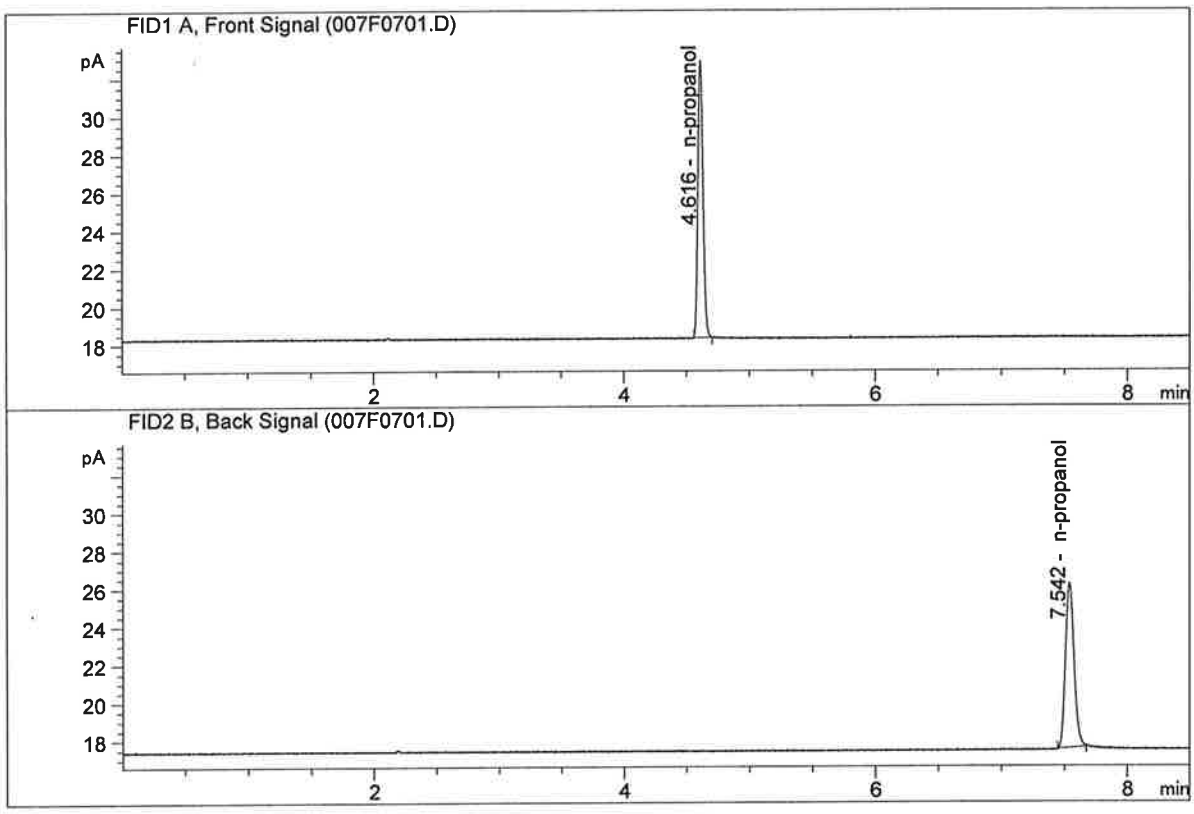


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	42.43472	1.0000	g/100cc
4.	n-Propanol	Column 2:	43.52771	1.0000	g/100cc

JF

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK
Laboratory : Meridian
Injection Date : Oct 17, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

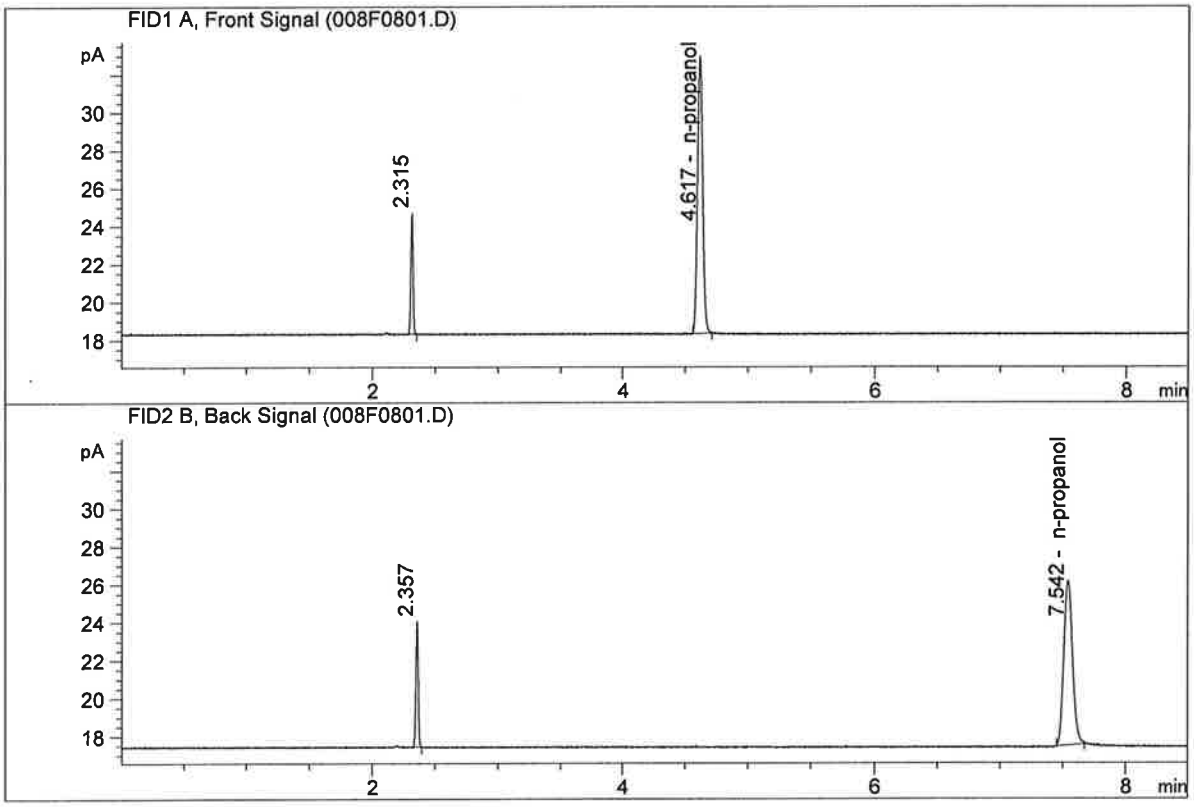


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	41.49302	1.0000	g/100cc
4.	n-Propanol	Column 2:	41.37044	1.0000	g/100cc

JC

ISP Forensic Services Blood Alcohol Report

Sample Name : DFE 111914OM
Laboratory : Meridian
Injection Date : Oct 17, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

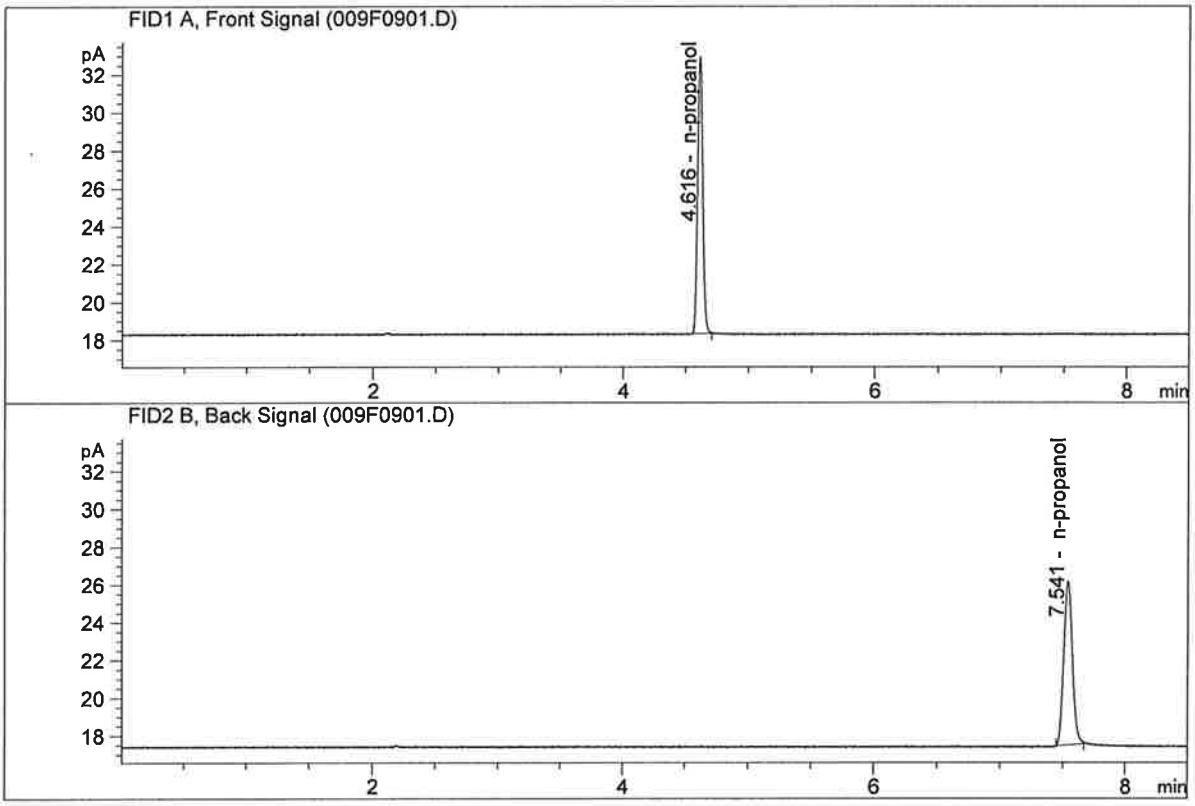


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	41.49533	1.0000	g/100cc
4.	n-Propanol	Column 2:	41.29612	1.0000	g/100cc

JC

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK
Laboratory : Meridian
Injection Date : Oct 17, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

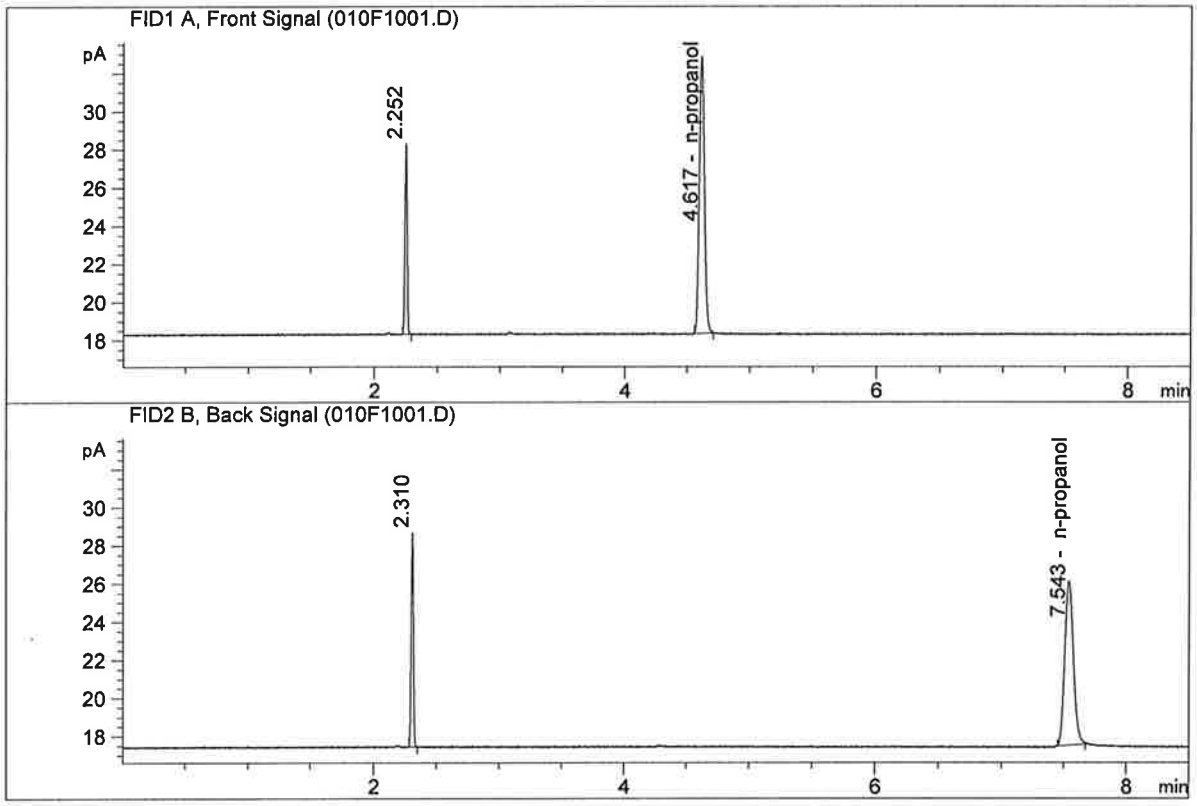


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	41.49291	1.0000	g/100cc
4.	n-Propanol	Column 2:	41.30663	1.0000	g/100cc

JC

ISP Forensic Services Blood Alcohol Report

Sample Name	:	TFE 111914
Laboratory	:	Meridian
Injection Date	:	Oct 17, 2017
Method	:	ALCOHOL.M
Acq. Instrument	:	CN11180014-CN11041167

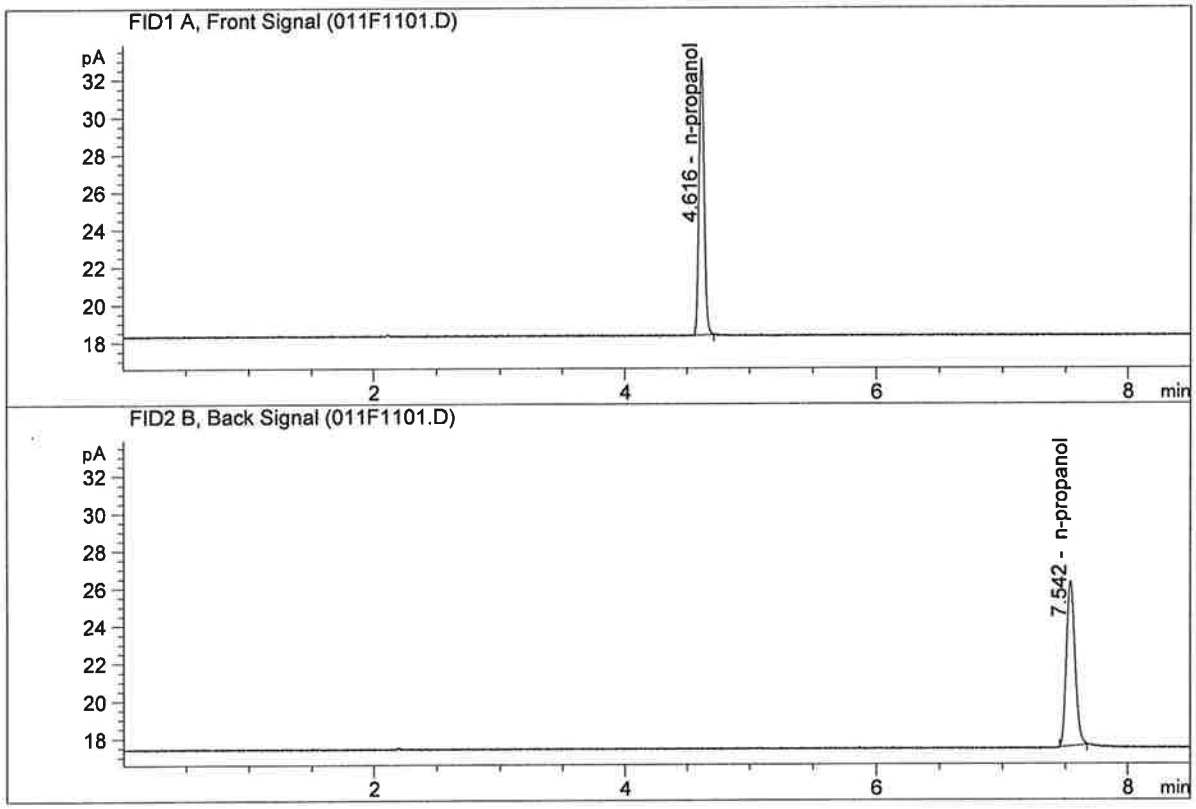


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	41.28230	1.0000	g/100cc
4.	n-Propanol	Column 2:	41.16482	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK
Laboratory : Meridian
Injection Date : Oct 17, 2017
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:	42.06379	1.0000	g/100cc
4.	n-Propanol	Column 2:	41.86761	1.0000	g/100cc

JG

Sequence File C:\Chem32\...DARDS\10-17-17_STANDARDS 2017-10-17 10-43-37\10-17-17_STANDARDS.S

Sample Summary

Sequence table: C:\Chem32\1\Data\10-17-17_STANDARDS\10-17-17_STANDARDS 2017-10-17 10-43-3
\10-17-17_STANDARDS.S
Data directory path: C:\Chem32\1\Data\10-17-17_STANDARDS\10-17-17_STANDARDS 2017-10-17 10-43-3
\
Logbook: C:\Chem32\1\Data\10-17-17_STANDARDS\10-17-17_STANDARDS 2017-10-17 10-43-3
\10-17-17_STANDARDS.LOG
Sequence start: 10/17/2017 10:58:16 AM
Sequence Operator: SYSTEM
Operator: SYSTEM

Method file name: C:\Chem32\1\Data\10-17-17_STANDARDS\10-17-17_STANDARDS 2017-10-17 10-43-3
\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	M2017-4380-1-A	-	1.0000	002F0201.D		4
3	3	1	M2017-4380-1-B	-	1.0000	003F0301.D		4
4	4	1	INTERNAL STD BLK	-	1.0000	004F0401.D		2
5	5	1	M2017-4452-1-A	-	1.0000	005F0501.D		6
6	6	1	M2017-4452-1-A	-	1.0000	006F0601.D		6
7	7	1	INTERNAL STD BLK	-	1.0000	007F0701.D		2
8	8	1	DFE 111914OM	-	1.0000	008F0801.D		2
9	9	1	INTERNAL STD BLK	-	1.0000	009F0901.D		2
10	10	1	TFE 111914	-	1.0000	010F1001.D		2
11	11	1	INTERNAL STD BLK	-	1.0000	011F1101.D		2

Method file name: C:\Chem32\1\Data\10-17-17_STANDARDS\10-17-17_STANDARDS 2017-10-17 10-43-3
\SHUTDOWN.M

Run #	Location #	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal	# Cmp
12	12	1	EMPTY	-	1.0000	012F1201.D		0

JG