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 Dates: 01/05/2018

Calibration: 01/02/2018

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Jul-18	1407031	0.0780	0.0702-0.0858	0.0773 g/100cc
					0.0789 g/100cc
					g/100cc
Level 2	Jul-18	1407032	0.2020	0.1818-.2222	0.2019 g/100cc
					g/100cc
					g/100cc

Multi-Component mixture:	**Exp date: Oct 2019**		**Lot #**	FN09231404	OK
Curve Fit:		**Column 1**	0.99999	**Column2**	0.99994

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	0.0518	0.0011	0.0512
0.080			0.080	0.072 - 0.088			0	#DIV/0!
0.100	Jun-19	FN06181501	0.100	0.090 - 0.110	0.1002	0.1005	0.0003	0.1003
0.200	Dec-19	FN12011401	0.200	0.180 - 0.220	0.1996	0.1983	0.0013	0.1989
0.300	Jun-20	FN02121501	0.300	0.270 - 0.330	0.2985	0.2977	0.0008	0.2981
0.400			0.400	0.360 - 0.440			0	#DIV/0!
0.500	Aug-19	FN07031402	0.500	0.450 - 0.550	0.5009	0.5018	0.0009	0.5013

Aqueous Controls

Control level	Expiration	Cerilliant Lot #	Target Value	Acceptable Range	Overall Results
0.080	Nov-20	FN10281510	0.08000	0.076 - 0.084	0.08 g/100cc

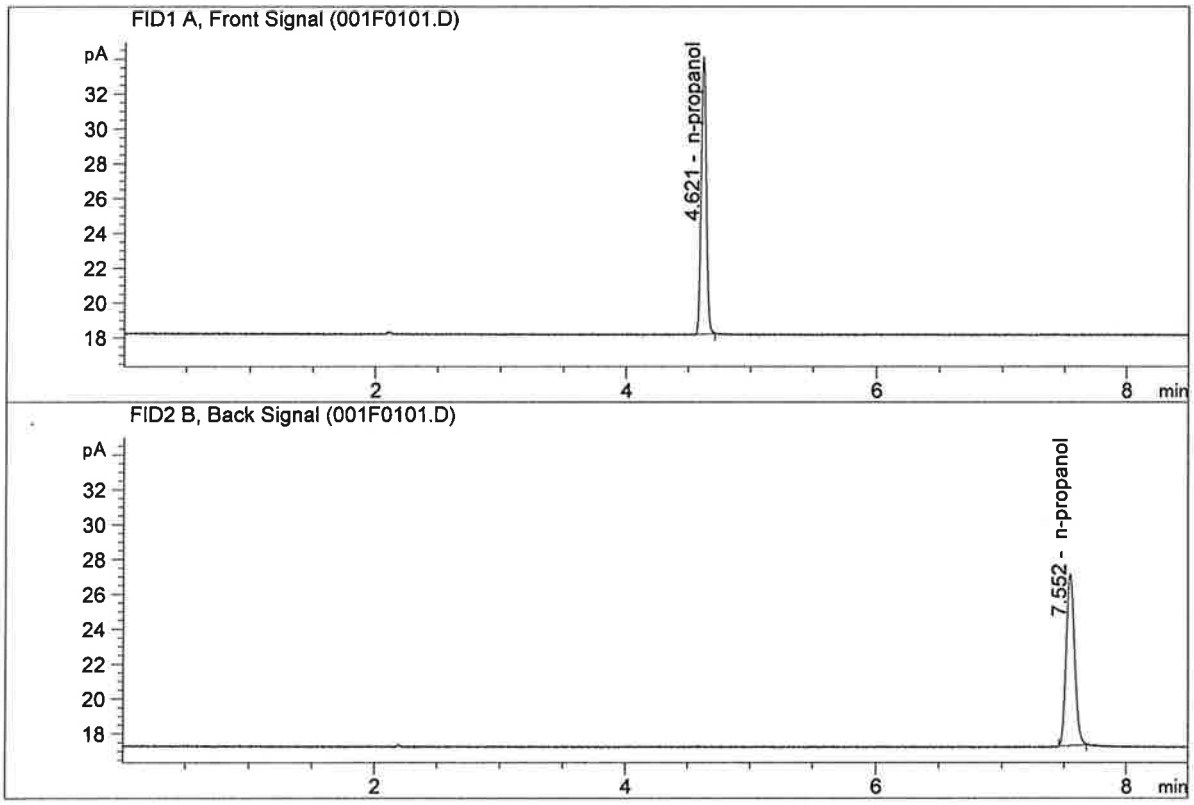
~Any information on this document can be changed for laboratory use, except for the precision and mean determination fomulas.

Worklist: 2112

LAB_CASE	ITEM	TASK_ID	DESCRIPTION
M2017-5822	1	102931	Alcohol Analysis
M2017-5828	1	102967	Alcohol Analysis
M2017-5829	1	102968	Alcohol Analysis
M2017-5830	1	102969	Alcohol Analysis
M2017-5839	1	103011	Alcohol Analysis
M2017-5840	1	103078	Alcohol Analysis
M2017-5841	1	103079	Alcohol Analysis
M2017-5842	1	103080	Alcohol Analysis
M2017-5850	1	103103	Alcohol Analysis
M2017-5851	1	103104	Alcohol Analysis
M2017-5852	1	103117	Alcohol Analysis
M2017-5865	1	103162	Alcohol Analysis
M2017-5866	1	103165	Alcohol Analysis
M2017-5872	1	103201	Alcohol Analysis
M2017-5888	1	103228	Alcohol Analysis
M2017-5889	1	103231	Alcohol Analysis
M2017-5889	2	103234	Alcohol Analysis
M2017-5890	1	103237	Alcohol Analysis
M2017-5894	1	103310	Alcohol Analysis

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK 1
Laboratory : Meridian
Injection Date : Jan 5, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

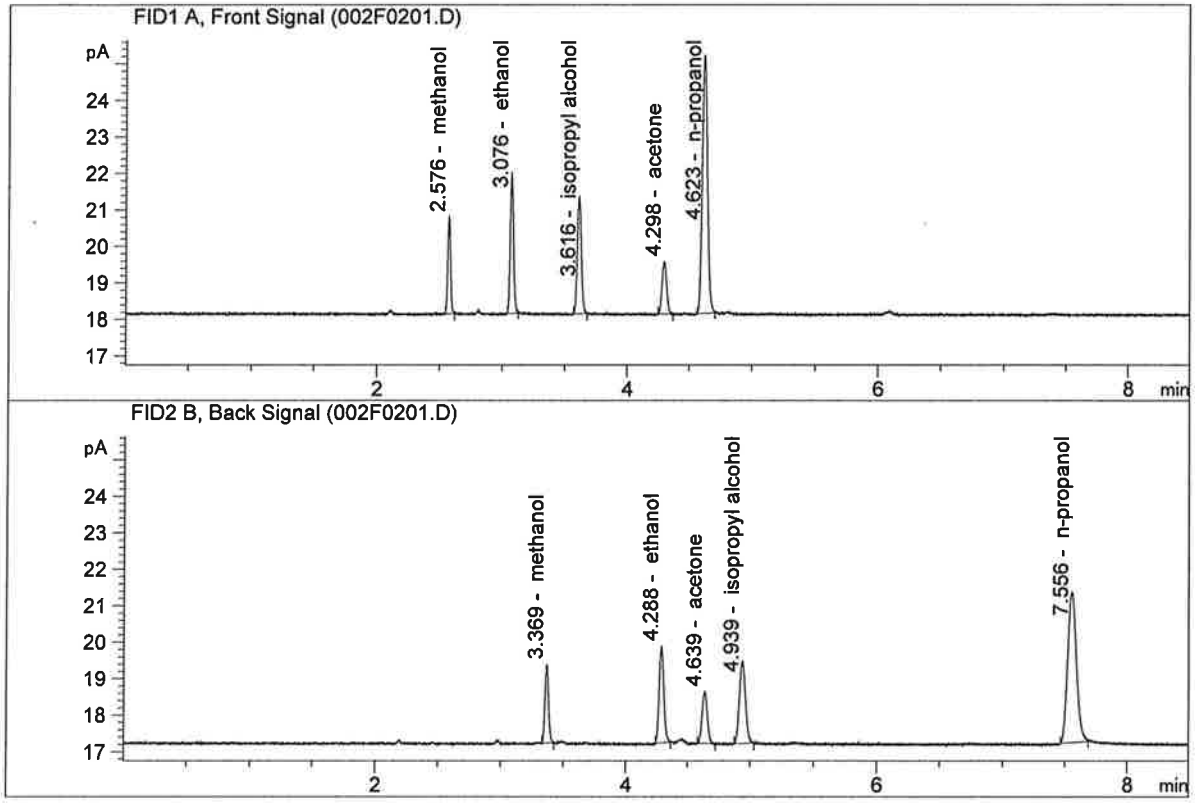


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	45.25370	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.00380	1.0000	g/100cc

JC

ISP Forensic Services Blood Alcohol Report

Sample Name : MIX VOL FN09231404
Laboratory : Meridian
Injection Date : Jan 5, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.87524	0.1741	g/100cc
2.	Ethanol	Column 2:	7.03766	0.1760	g/100cc
3.	n-Propanol	Column 1:	20.01083	1.0000	g/100cc
4.	n-Propanol	Column 2:	19.95608	1.0000	g/100cc

JC

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-1 **Analysis Date(s): 05 Jan 2018**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0769	0.0777	0.0008	0.0773	0.0773	
(g/100cc)	0.0772	0.0777	0.0005	0.0774		

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
0.077	**0.073**	**0.081**	**0.004**

Reported Result

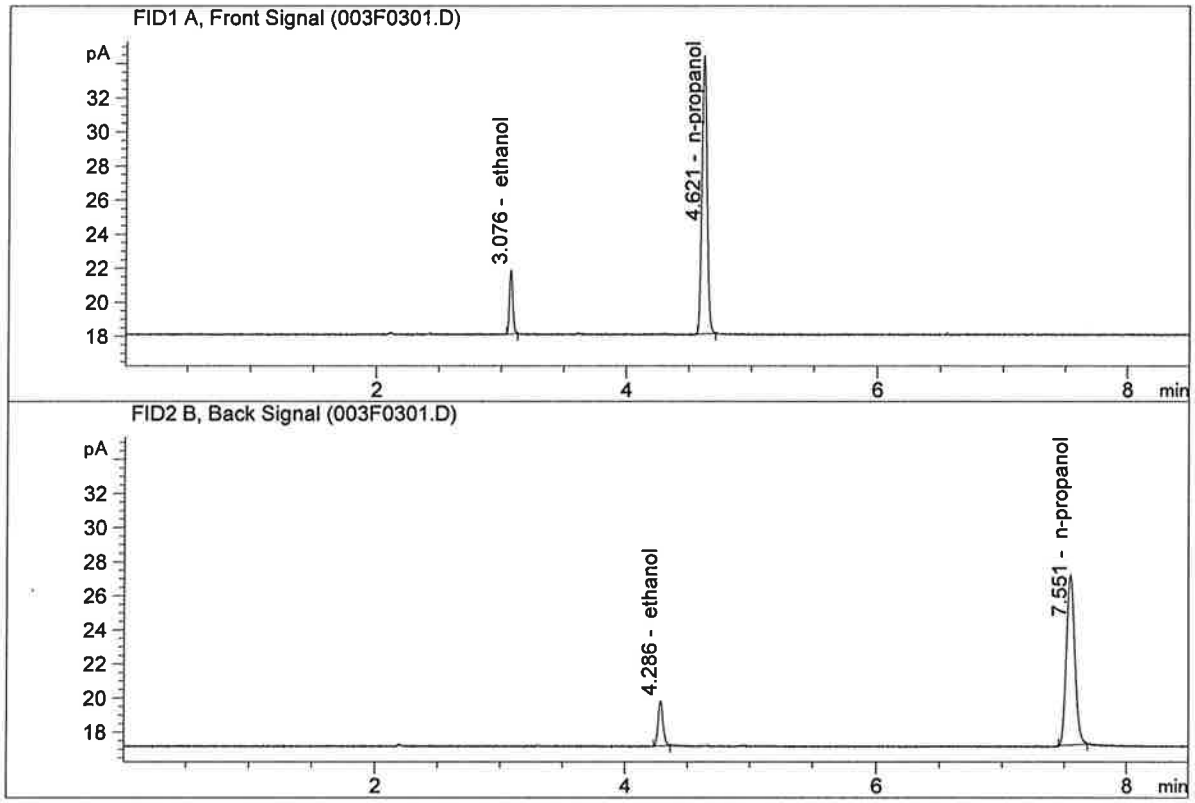
0.077

Calibration and control data are stored centrally.

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-1-A
Laboratory : Meridian
Injection Date : Jan 5, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

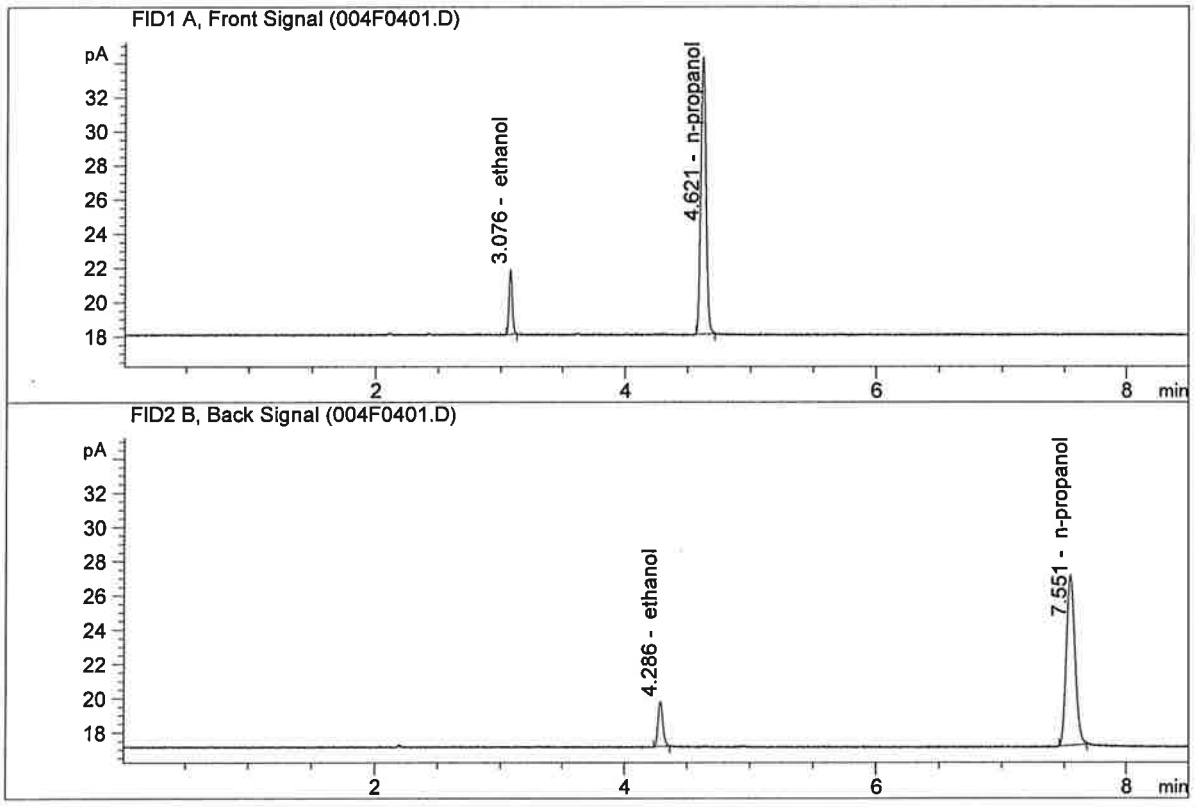


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.94307	0.0769	g/100cc
2.	Ethanol	Column 2:	7.10843	0.0777	g/100cc
3.	n-Propanol	Column 1:	46.45863	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.67223	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

Sample Name	:	QC1-1-B
Laboratory	:	Meridian
Injection Date	:	Jan 5, 2018
Method	:	ALCOHOL.M
Acq. Instrument	:	CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.93278	0.0772	g/100cc
2.	Ethanol	Column 2:	7.03367	0.0777	g/100cc
3.	n-Propanol	Column 1:	46.21490	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.13168	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 0.08 FN10281510 **Analysis Date(s): 05 Jan 2018**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0809	0.0810	0.0001	0.0809	0.0808	
(g/100cc)	0.0807	0.0807	0.0000	0.0807		

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
0.080	**0.076**	**0.084**	**0.004**

Reported Result

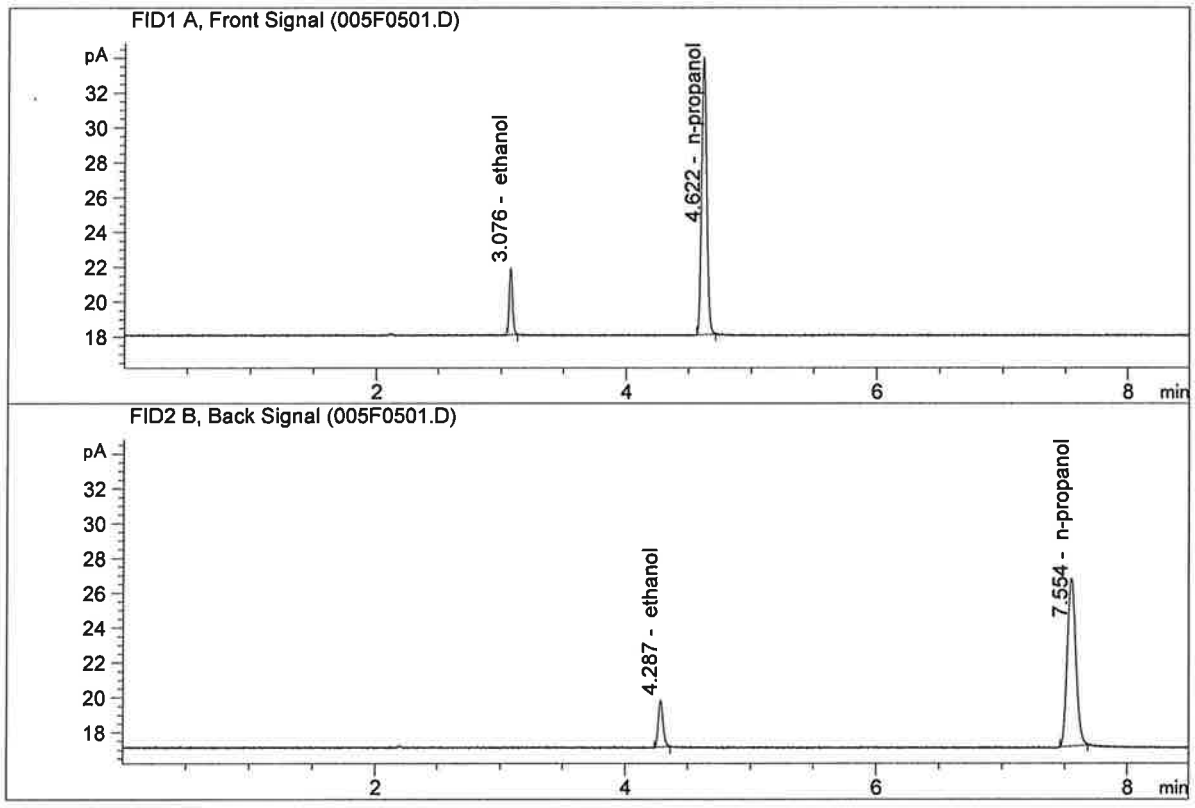
0.080

Calibration and control data are stored centrally.

JC

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN10281510-A
Laboratory : Meridian
Injection Date : Jan 5, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

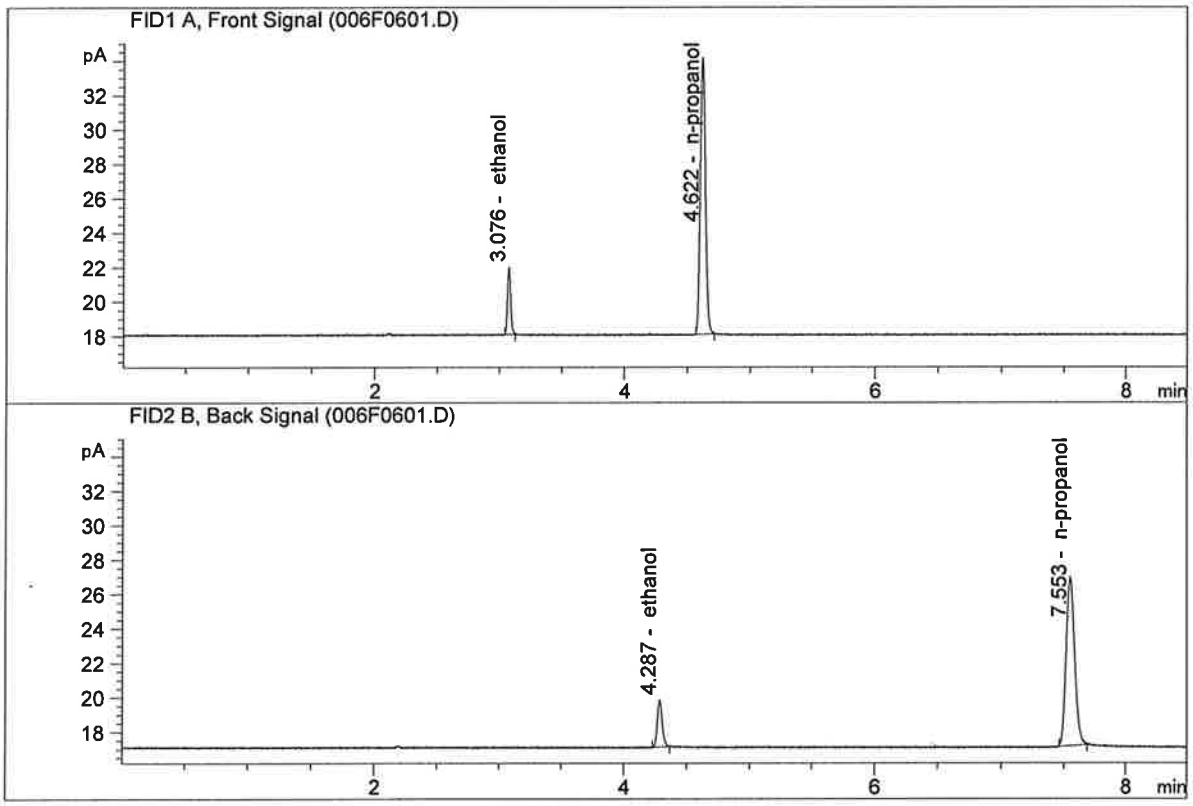


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.12064	0.0809	g/100cc
2.	Ethanol	Column 2:	7.17516	0.0810	g/100cc
3.	n-Propanol	Column 1:	45.20221	1.0000	g/100cc
4.	n-Propanol	Column 2:	45.98539	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN10281510-B
Laboratory : Meridian
Injection Date : Jan 5, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.17484	0.0807	g/100cc
2.	Ethanol	Column 2:	7.22139	0.0807	g/100cc
3.	n-Propanol	Column 1:	45.69179	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.51008	1.0000	g/100cc

JC

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC2-1 **Analysis Date(s): 05 Jan 2018**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.2022	0.2014	0.0008	0.2018	0.2019	
(g/100cc)	0.2024	0.2016	0.0008	0.2020		

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
0.201	**0.190**	**0.212**	**0.011**

Reported Result

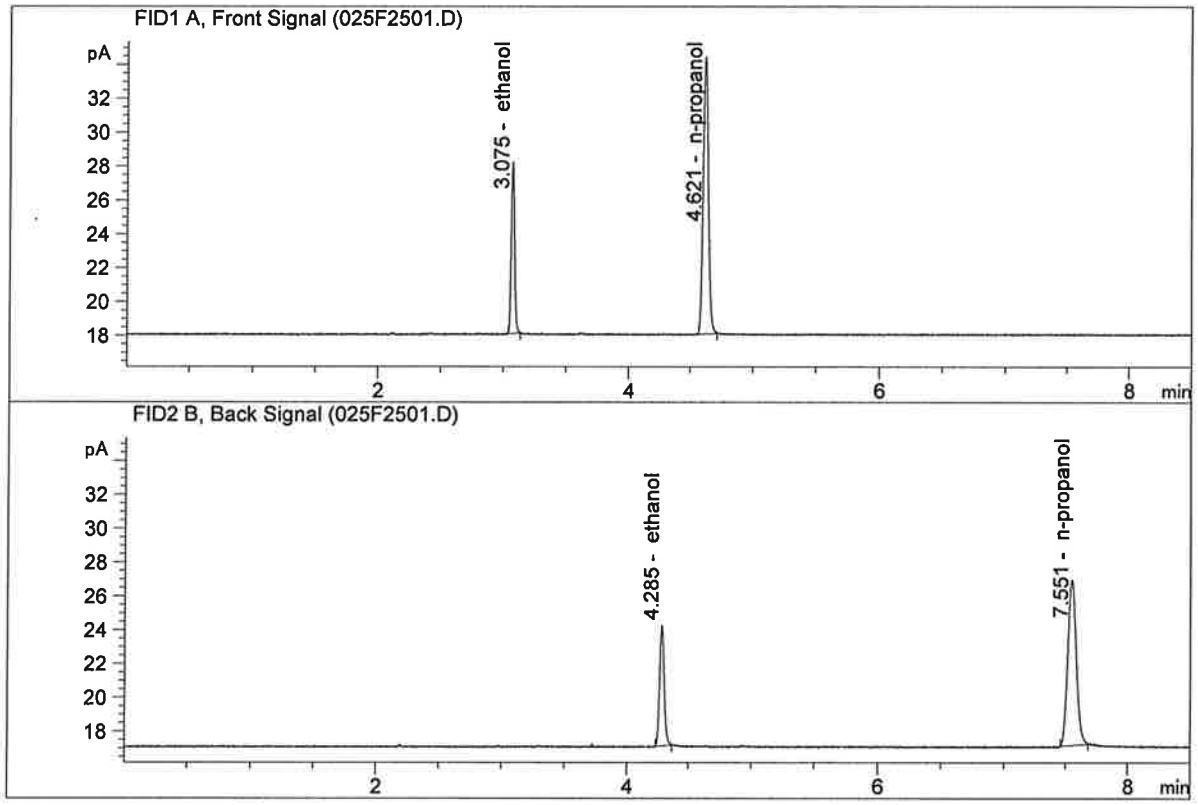
0.201

Calibration and control data are stored centrally.

JL

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-1-A
Laboratory : Meridian
Injection Date : Jan 5, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

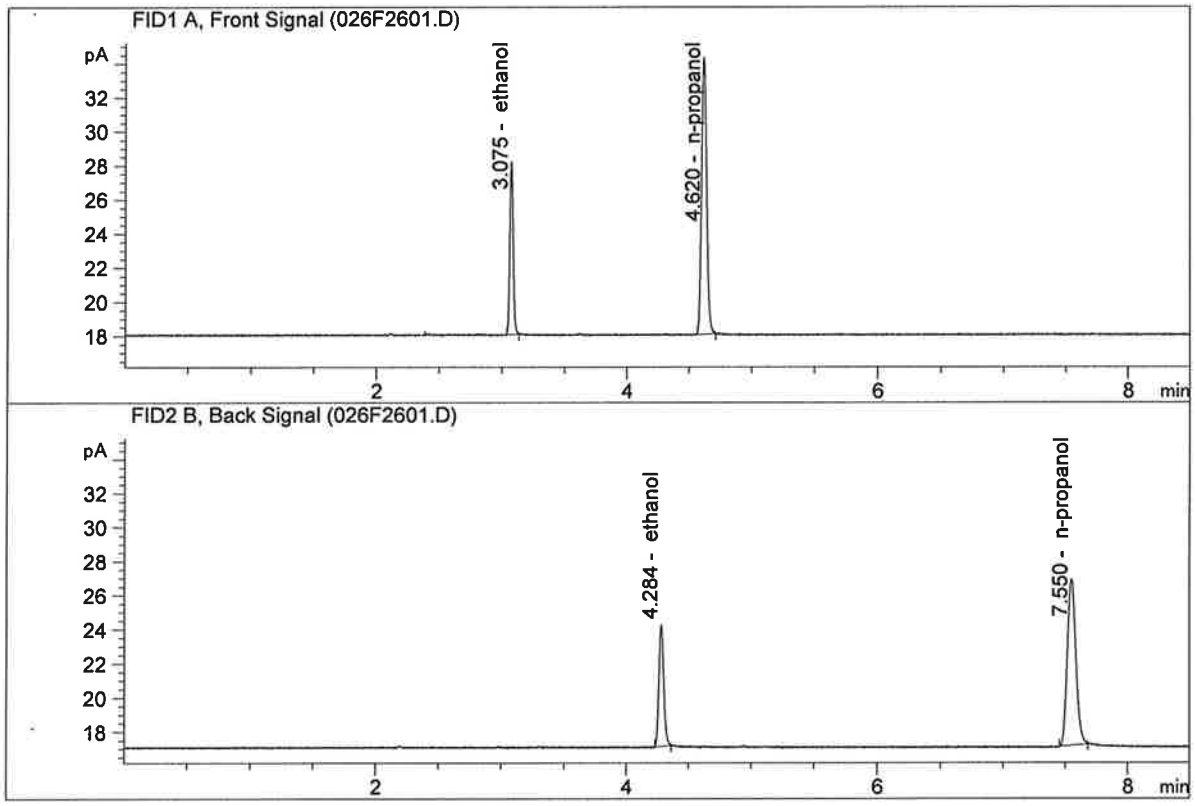


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.57874	0.2022	g/100cc
2.	Ethanol	Column 2:	18.94650	0.2014	g/100cc
3.	n-Propanol	Column 1:	46.48196	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.75449	1.0000	g/100cc

JC

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-1-B
Laboratory : Meridian
Injection Date : Jan 5, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.54367	0.2024	g/100cc
2.	Ethanol	Column 2:	18.90589	0.2016	g/100cc
3.	n-Propanol	Column 1:	46.34908	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.61972	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-2 **Analysis Date(s): 06 Jan 2018**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0786	0.0790	0.0004	0.0788	0.0789	
(g/100cc)	0.0785	0.0795	0.0010	0.0790		

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**

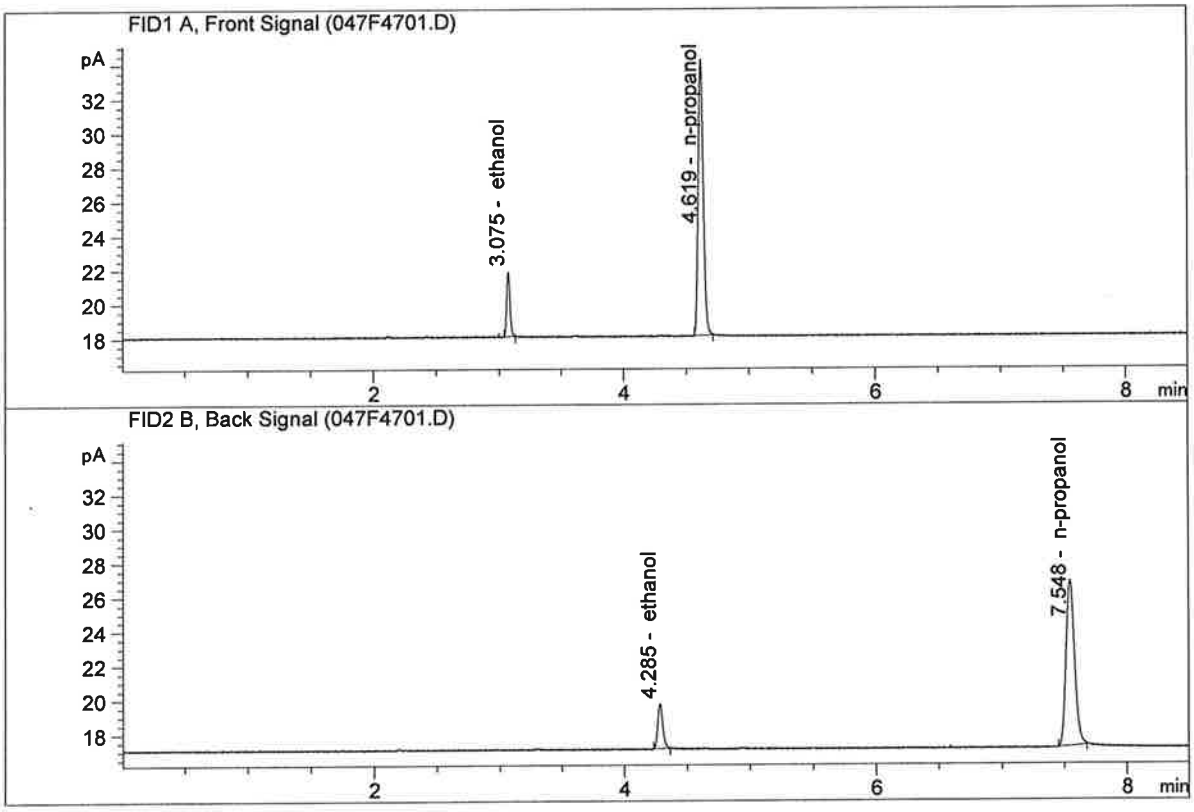
Reported Result

0.078

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

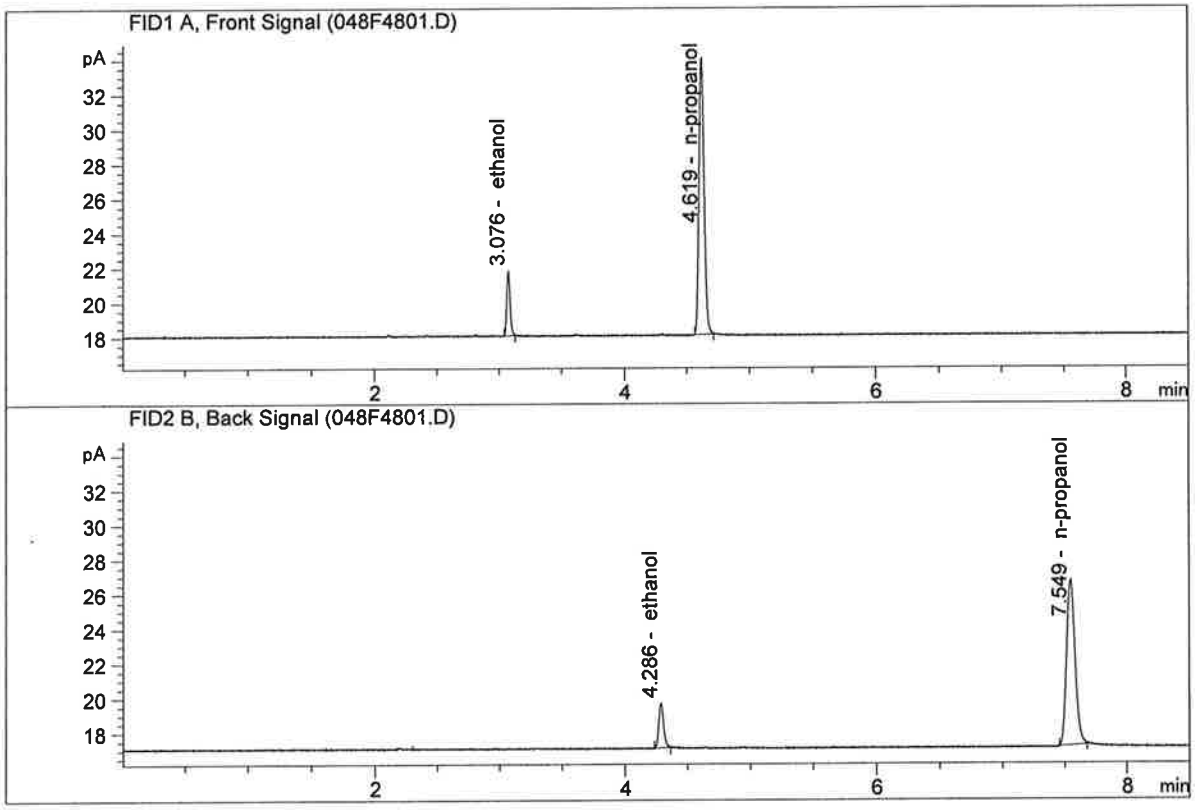
Sample Name : QC1-2-A
Laboratory : Meridian
Injection Date : Jan 6, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.01380	0.0786	g/100cc
2.	Ethanol	Column 2:	7.02343	0.0790	g/100cc
3.	n-Propanol	Column 1:	45.89827	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.25398	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-2-B
Laboratory : Meridian
Injection Date : Jan 6, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

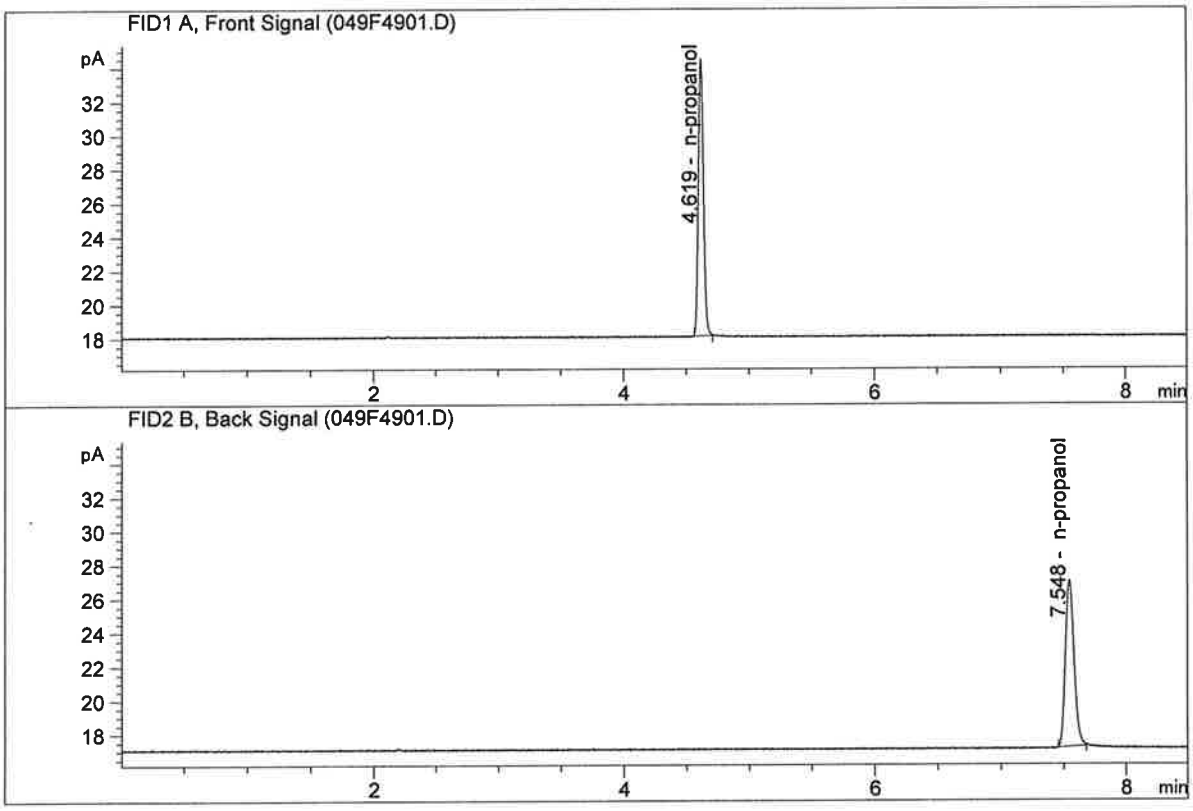


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.91850	0.0785	g/100cc
2.	Ethanol	Column 2:	6.94774	0.0795	g/100cc
3.	n-Propanol	Column 1:	45.28406	1.0000	g/100cc
4.	n-Propanol	Column 2:	45.45790	1.0000	g/100cc

JC

ISP Forensic Services Blood Alcohol Report

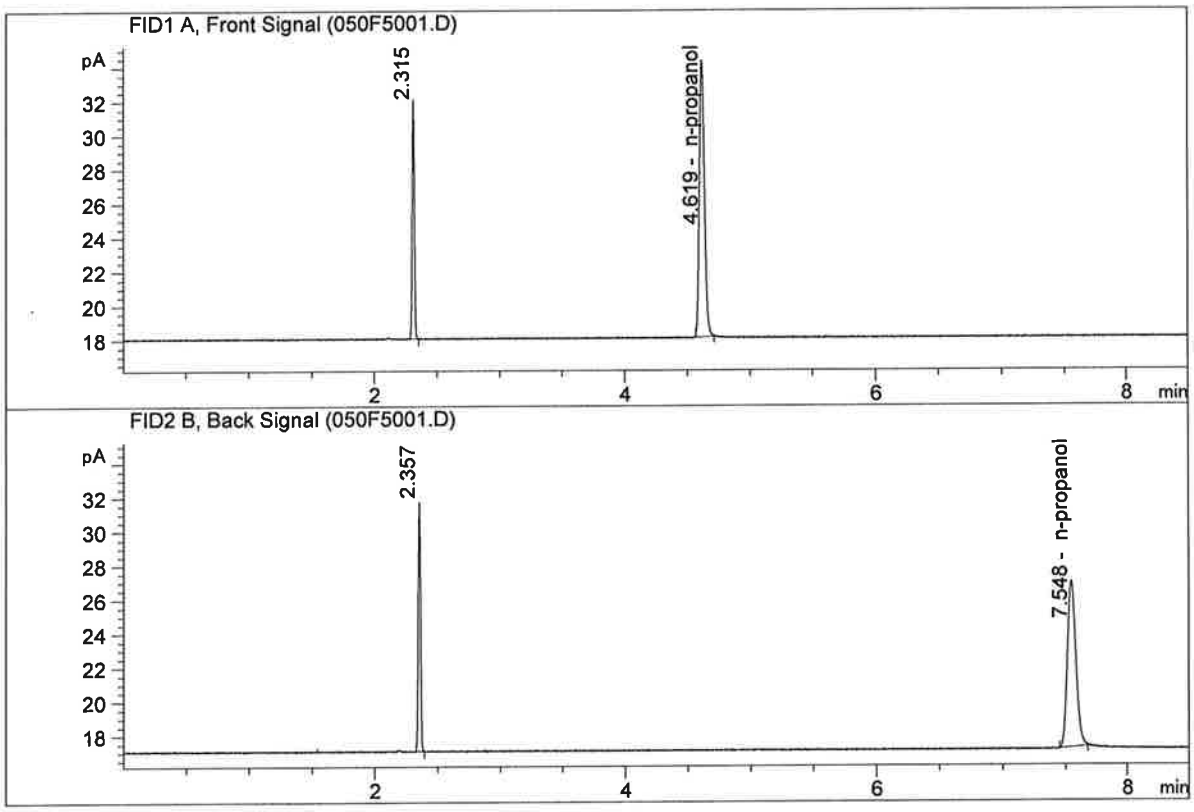
Sample Name : INTERNAL STD BLK 1
Laboratory : Meridian
Injection Date : Jan 6, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	46.48639	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.86274	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : DFE 111914OM
Laboratory : Meridian
Injection Date : Jan 6, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

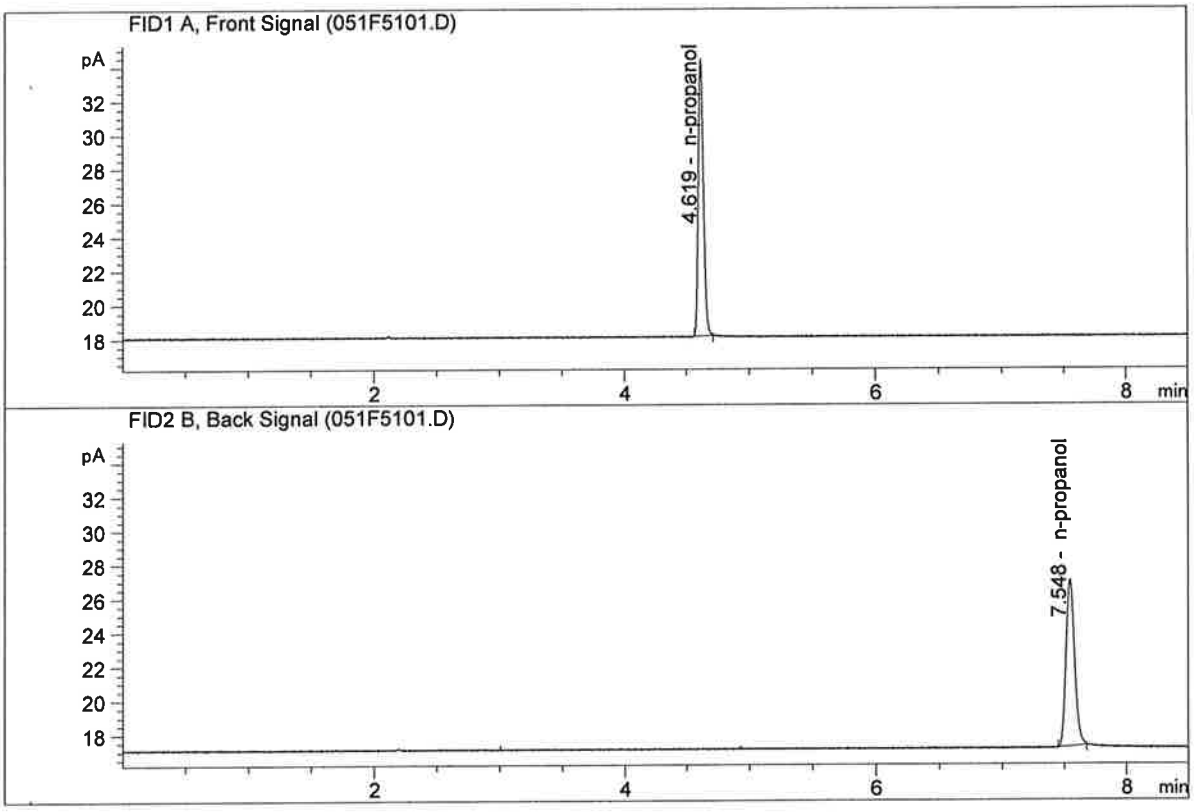


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	46.24547	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.57543	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

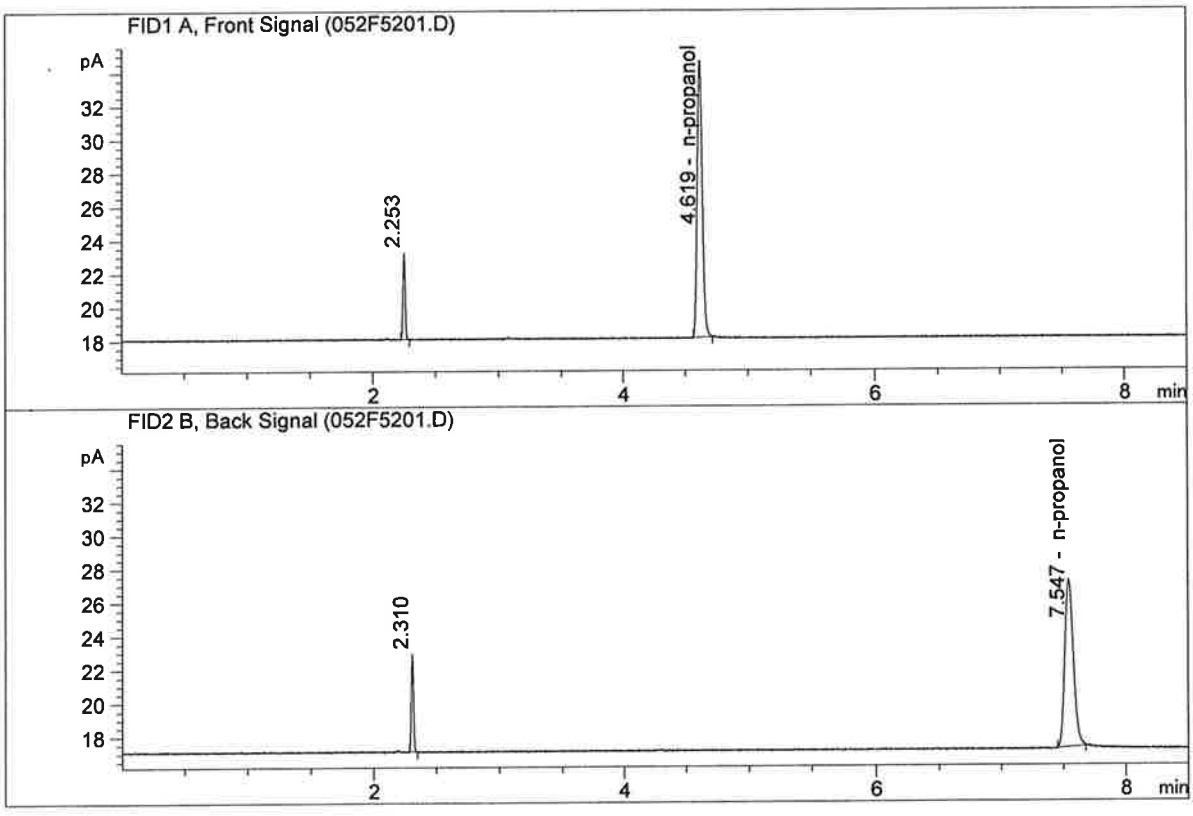
Sample Name : INTERNAL STD BLK 1
Laboratory : Meridian
Injection Date : Jan 6, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	46.25350	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.72062	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : TFE 111914
Laboratory : Meridian
Injection Date : Jan 6, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

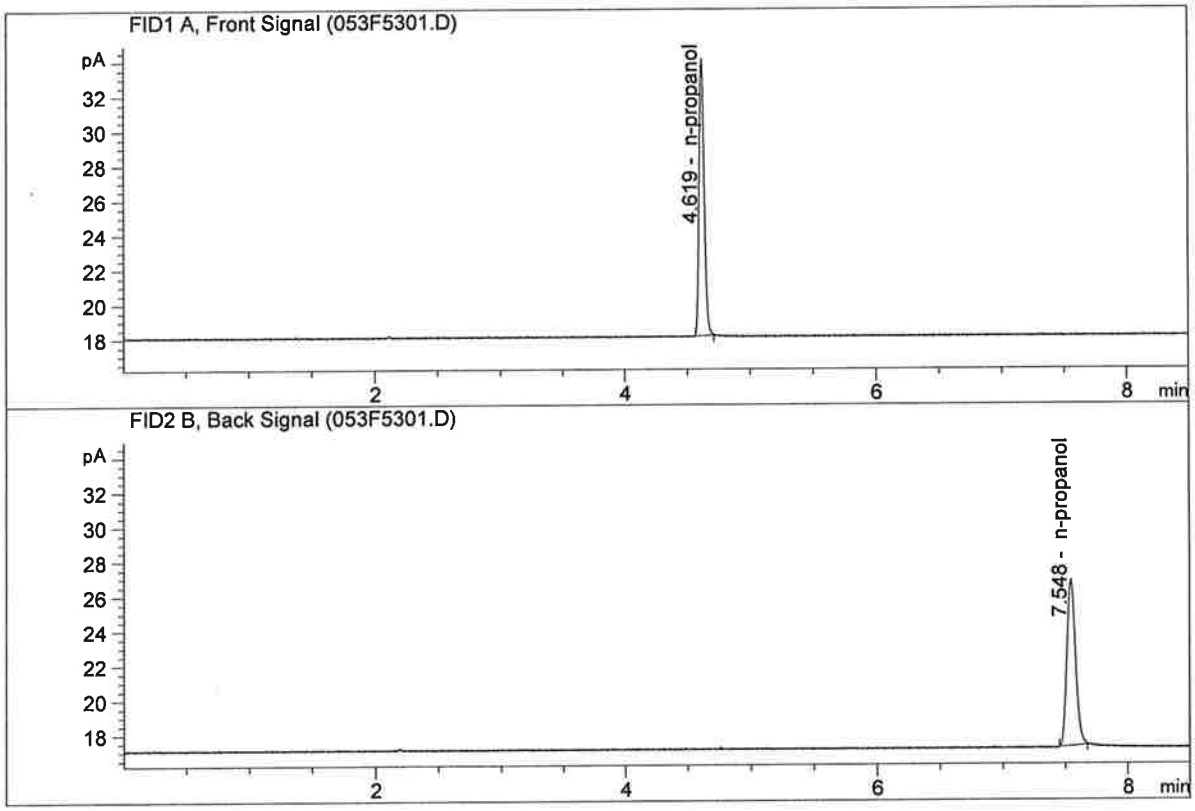


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	46.99616	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.30601	1.0000	g/100cc

JC

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK 1
Laboratory : Meridian
Injection Date : Jan 6, 2018
Method : ALCOHOL.M
Acq. Instrument : CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	45.32101	1.0000	g/100cc
4.	n-Propanol	Column 2:	45.57010	1.0000	g/100cc

JL

Sample Summary

Sequence table: C:\Chem32\1\Data\01-05-18_SAMPLES\01-05-18_SAMPLES 2018-01-05 16-42-17\01-05-18_SAMPLES.S
Data directory path: C:\Chem32\1\Data\01-05-18_SAMPLES\01-05-18_SAMPLES 2018-01-05 16-42-17\
Logbook: C:\Chem32\1\Data\01-05-18_SAMPLES\01-05-18_SAMPLES 2018-01-05 16-42-17\01-05-18_SAMPLES.LOG
Sequence start: 1/5/2018 4:57:06 PM
Sequence Operator: SYSTEM
Operator: SYSTEM

Method file name: C:\Chem32\1\Data\01-05-18_SAMPLES\01-05-18_SAMPLES 2018-01-05 16-42-17\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	M2017-5822-1-A	-	1.0000	007F0701.D	6
8	8	1	M2017-5822-1-B	-	1.0000	008F0801.D	6
9	9	1	M2017-5828-1-A	-	1.0000	009F0901.D	6
10	10	1	M2017-5828-1-B	-	1.0000	010F1001.D	6
11	11	1	M2017-5829-1-A	-	1.0000	011F1101.D	6
12	12	1	M2017-5829-1-B	-	1.0000	012F1201.D	6
13	13	1	M2017-5830-1-A	-	1.0000	013F1301.D	5
14	14	1	M2017-5830-1-B	-	1.0000	014F1401.D	6
15	15	1	M2017-5839-1-A	-	1.0000	015F1501.D	6
16	16	1	M2017-5839-1-B	-	1.0000	016F1601.D	6
17	17	1	M2017-5840-1-A	-	1.0000	017F1701.D	6
18	18	1	M2017-5840-1-B	-	1.0000	018F1801.D	6
19	19	1	M2017-5841-1-A	-	1.0000	019F1901.D	6
20	20	1	M2017-5841-1-B	-	1.0000	020F2001.D	6
21	21	1	M2017-5842-1-A	-	1.0000	021F2101.D	6
22	22	1	M2017-5842-1-B	-	1.0000	022F2201.D	6
23	23	1	M2017-5850-1-A	-	1.0000	023F2301.D	6
24	24	1	M2017-5850-1-B	-	1.0000	024F2401.D	6
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	M2017-5851-1-A	-	1.0000	027F2701.D	6
28	28	1	M2017-5851-1-B	-	1.0000	028F2801.D	6
29	29	1	M2017-5852-1-A	-	1.0000	029F2901.D	6
30	30	1	M2017-5852-1-B	-	1.0000	030F3001.D	6
31	31	1	M2017-5865-1-A	-	1.0000	031F3101.D	6
32	32	1	M2017-5865-1-B	-	1.0000	032F3201.D	6
33	33	1	M2017-5866-1-A	-	1.0000	033F3301.D	6
34	34	1	M2017-5866-1-B	-	1.0000	034F3401.D	6
35	35	1	M2017-5872-1-A	-	1.0000	035F3501.D	6
36	36	1	M2017-5872-1-B	-	1.0000	036F3601.D	6
37	37	1	M2017-5888-1-A	-	1.0000	037F3701.D	2
38	38	1	M2017-5888-1-B	-	1.0000	038F3801.D	2
39	39	1	M2017-5889-1-A	-	1.0000	039F3901.D	2
40	40	1	M2017-5889-1-B	-	1.0000	040F4001.D	2
41	41	1	M2017-5889-2-A	-	1.0000	041F4101.D	2
42	42	1	M2017-5889-2-B	-	1.0000	042F4201.D	2
43	43	1	M2017-5890-1-A	-	1.0000	043F4301.D	2

JC

Sequence File C:\Chem32\...8_SAMPLES\01-05-18_SAMPLES 2018-01-05 16-42-17\01-05-18_SAMPLES.S

Run #	Location #	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal # Cmp
44	44	1	M2017-5890-1-B	-	1.0000	044F4401.D	2
45	45	1	M2017-5894-1-A	-	1.0000	045F4501.D	6
46	46	1	M2017-5894-1-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	INTERNAL STD BLK	-	1.0000	049F4901.D	2
50	50	1	DFE 111914OM	-	1.0000	050F5001.D	2
51	51	1	INTERNAL STD BLK	-	1.0000	051F5101.D	2
52	52	1	TFE 111914	-	1.0000	052F5201.D	2
53	53	1	INTERNAL STD BLK	-	1.0000	053F5301.D	2

Method file name: C:\Chem32\1\Data\01-05-18_SAMPLES\01-05-18_SAMPLES 2018-01-05 16-42-17\SHUTDOWN.M

Run #	Location #	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal # Cmp
54	54	1	EMPTY	-	1.0000	054F5401.D	0