Quantitative Analysis for Ethanol & Qualitative Analysis for Other Volatiles

Analytical Method(s): 1.0

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

Volatiles Quality Assurance Controls **Run Date(s): 2/11/19-2/12/19**

calibration 2/11/2019

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Jan-22	1801036	0.0812	0.0731-0.0893	0.0789 g/100cc
					0.0802 g/100cc
					g/100cc
Level 2	Mar-22	1803028	0.2035	0.1832-0.2238	0.2023 g/100cc
					0.2084 g/100cc
					g/100cc

Multi-Component mixture:		**Lot #**	FN06041502		OK
Curve Fit:	**Column 1**	1.00000	**Column2**	0.99994	

Ethanol Calibration Reference Material

Calibrator level	Target Value	Acceptable Range	Column 1	Column 2	Precision	Mean
50	0.050	0.045 - 0.055	0.0500	0.0515	0.0015	0.0507
100	0.100	0.090 - 0.110	0.0994	0.1011	0.0017	0.1002
200	0.200	0.180 - 0.220	0.2004	0.1978	0.0026	0.1991
300	0.300	0.270 - 0.330	0.3006	0.2978	0.0028	0.2992
500	0.500	0.450 - 0.550	0.4996	0.5018	0.0022	0.5007

Aqueous Controls

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

NB

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

Quantitative Analysis for Ethanol & Qualitative Analysis for Other Volatiles

Analytical Method(s): 1.0

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

Volatiles Quality Assurance Controls **Run Date(s): 2/11/19-2/12/19**

calibratior 2/11/2019

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Jan-22	1801036	0.0812	0.0731-0.0893	0.0789 g/100cc
					0.0802 g/100cc
					g/100cc
Level 2	Mar-22	1803028	0.2035	0.1832-0.2238	0.2023 g/100cc
					0.2084 g/100cc
					g/100cc
Multi-Component mixture:			**Lot #**	FN06041502	OK
Curve Fit:		**Column 1**	1.00000	**Column2**	0.99994

Ethanol Calibration Reference Material

Calibrator level	Target Value	Acceptable Range	Column 1	Column 2	Precision	Mean
50	0.050	0.045 - 0.055	0.0500	0.0515	0.0015	0.0507
100	0.100	0.090 - 0.110	0.0994	0.1011	0.0017	0.1002
200	0.200	0.180 - 0.220	0.2004	0.1978	0.0026	0.1991
300	0.300	0.270 - 0.330	0.3006	0.2978	0.0028	0.2992
500	0.500	0.450 - 0.550	0.4996	0.5018	0.0022	0.5007

Aqueous Controls

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

REVIEWED
By John Garner at 12:33 pm, Feb 13, 2019

Revision: 5
Issue Date: 01/02/2019
Issuing Authority: Quality Manager

2/11/2019

Worklist: 2943

LAB_CASE	ITEM	TASK_ID	DESCRIPTION
M2019-0543	1	138349	Alcohol Analysis
M2019-0544	1	138351	Alcohol Analysis
M2019-0605	1	138888	Alcohol Analysis
M2019-0606	1	138889	Alcohol Analysis
M2019-0607	1	138890	Alcohol Analysis
M2019-0608	1	138891	Alcohol Analysis
M2019-0609	1	138892	Alcohol Analysis
M2019-0630	1	138946	Alcohol Analysis
M2019-0668	1	139025	Alcohol Analysis
M2019-0677	2	139045	Alcohol Analysis
M2019-0678	1	139056	Alcohol Analysis
M2019-0686	1	139099	Alcohol Analysis
M2019-0690	1	139181	Alcohol Analysis
M2019-0696	1	139191	Alcohol Analysis
M2019-0697	1	139192	Alcohol Analysis
M2019-0698	1	139193	Alcohol Analysis
M2019-0699	1	139194	Alcohol Analysis
M2019-0726	1	139283	Alcohol Analysis
M2019-0727	1	139287	Alcohol Analysis
P2019-0450	2	139253	Alcohol Analysis

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

Calibration Table

General Calibration Setting

Calib. Data Modified : Monday, February 11, 2019 12:16:59 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

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

RT	Sig	Lvl	Amount [g/100cc]	Area	Rsp.Factor	Ref	ISTD	#	Compound
2.586	1	1	1.00000	3.69669	2.70512e-1	No	No	1	methanol
2.809	1	1	1.00000	4.26100	2.34687e-1	No	No	2	Acetaldehyde
2.977	2	1	1.00000	4.26100	2.34687e-1	No	No	2	Acetaldehyde
3.075	1	1	5.00000e-2	4.49802	1.11160e-2	No	No	1	ethanol
		2	1.00000e-1	9.08496	1.10072e-2				
		3	2.00000e-1	18.20168	1.09880e-2				
		4	3.00000e-1	27.60642	1.08670e-2				
		5	5.00000e-1	45.65176	1.09525e-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	4.57321	1.09332e-2	No	No	2	ethanol
		2	1.00000e-1	9.40835	1.06289e-2				
		3	2.00000e-1	18.65120	1.07232e-2				
		4	3.00000e-1	28.56290	1.05031e-2				
		5	5.00000e-1	47.97281	1.04226e-2				
4.308	1	1	1.00000	6.49940	1.53860e-1	No	No	1	acetone
4.620	1	1	1.00000	45.57855	2.19401e-2	No	Yes	1	n-propanol
		2	1.00000	45.91364	2.17800e-2				
		3	1.00000	45.42995	2.20119e-2				
		4	1.00000	45.85249	2.18091e-2				
		5	1.00000	45.57214	2.19432e-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	47.10727	2.12281e-2	No	Yes	2	n-propanol
		2	1.00000	46.98447	2.12836e-2				
		3	1.00000	46.44240	2.15320e-2				
		4	1.00000	46.84248	2.13481e-2				
		5	1.00000	46.38239	2.15599e-2				

Peak Sum Table

No Entries in table

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1 Warnings or Errors :

Warning : Curve requires more calibration points., (methanol)

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Calibration Curves

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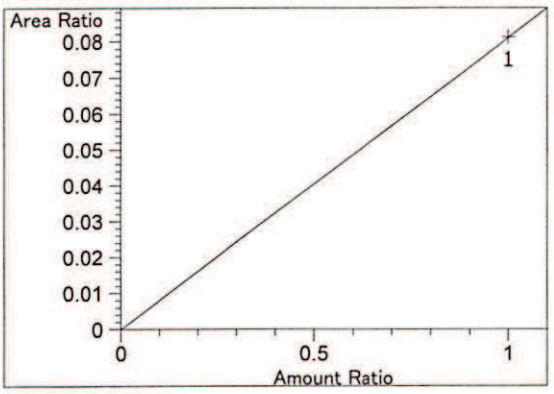
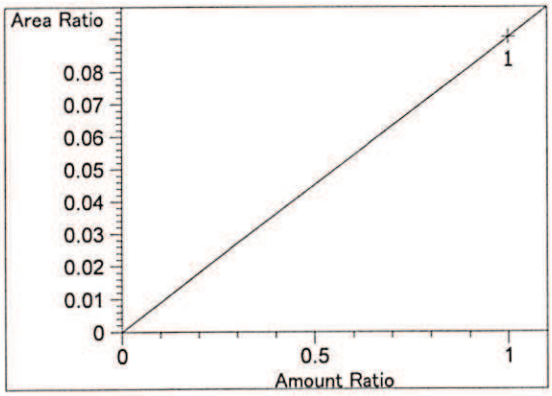
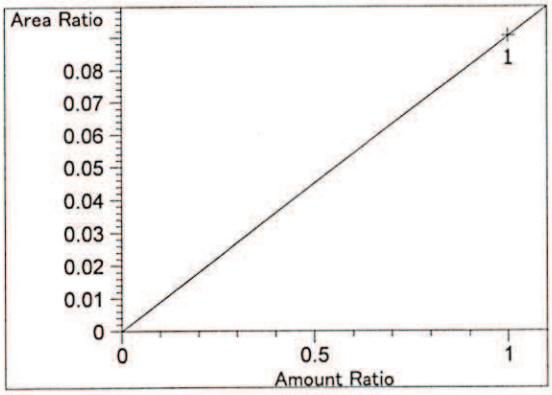


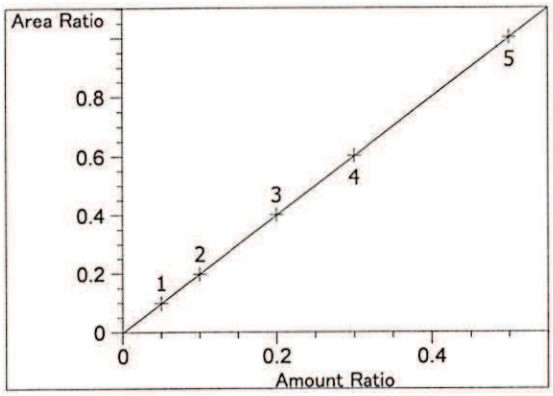
methanol at exp. RT: 2.586
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 8.11060e-2
b: 0.00000
x: Amount Ratio
y: Area Ratio



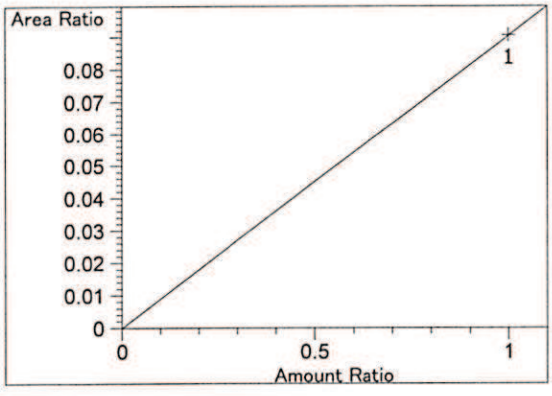
Acetaldehyde at exp. RT: 2.809
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 9.04531e-2
b: 0.00000
x: Amount Ratio
y: Area Ratio



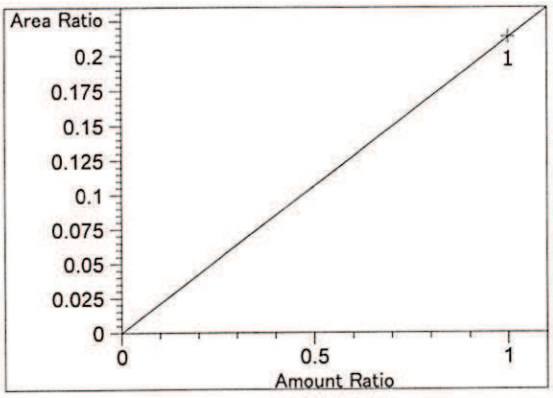
Acetaldehyde at exp. RT: 2.977
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 9.04531e-2
b: 0.00000
x: Amount Ratio
y: Area Ratio



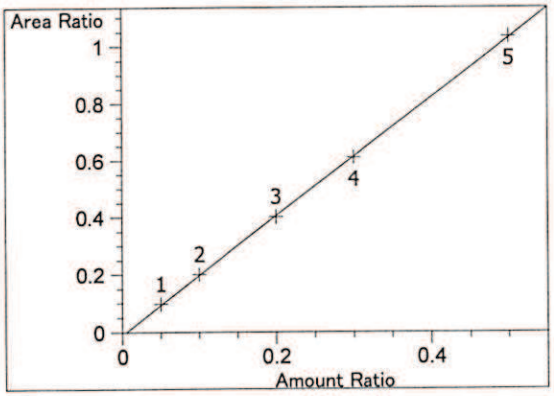
ethanol at exp. RT: 3.075
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00118
Formula: y = mx + b
m: 2.00867
b: -1.78900e-3
x: Amount Ratio
y: Area Ratio



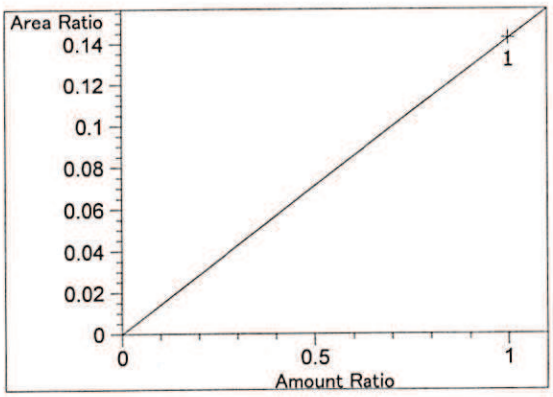
methanol at exp. RT: 3.388
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 9.04452e-2
b: 0.00000
x: Amount Ratio
y: Area Ratio



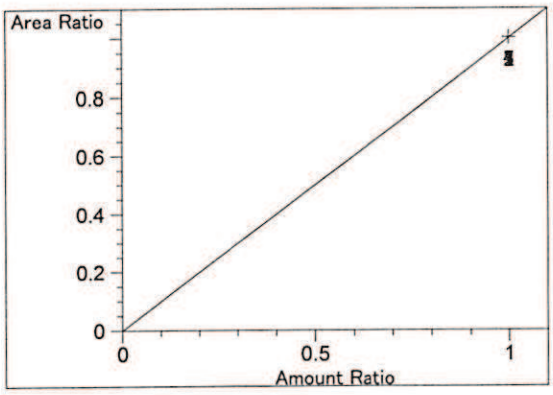
isopropyl alcohol at exp. RT: 3.628
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 2.13490e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio



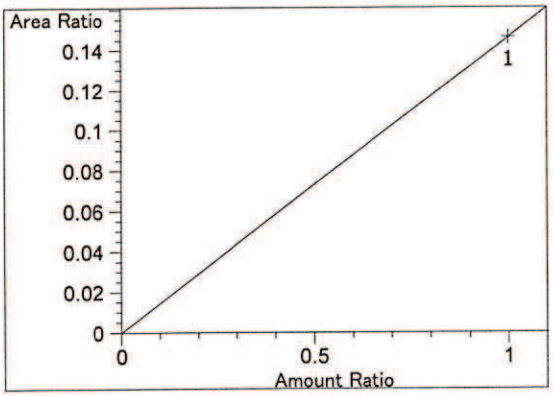
ethanol at exp. RT: 4.285
FID2 B, Back Signal
Correlation: 0.99994
Residual Std. Dev.: 0.00483
Formula: y = mx + b
m: 2.08115
b: -1.00694e-2
x: Amount Ratio
y: Area Ratio



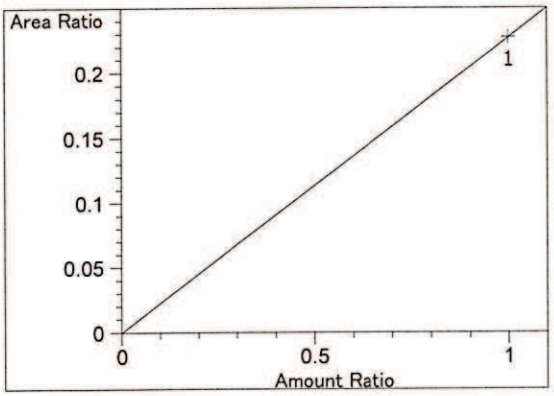
acetone at exp. RT: 4.308
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.42598e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio



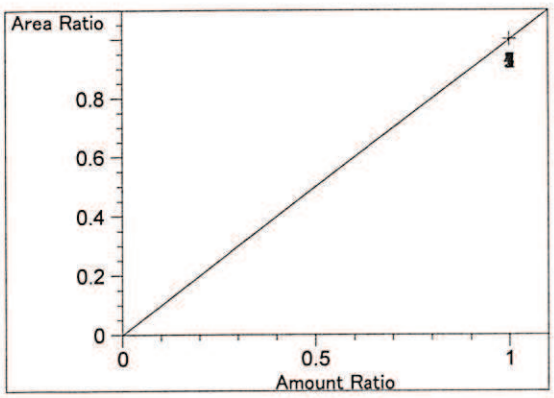
n-propanol at exp. RT: 4.620
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.00000
b: 0.00000
x: Amount Ratio
y: Area Ratio



acetone at exp. RT: 4.661
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.46326e-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: 2.27277e-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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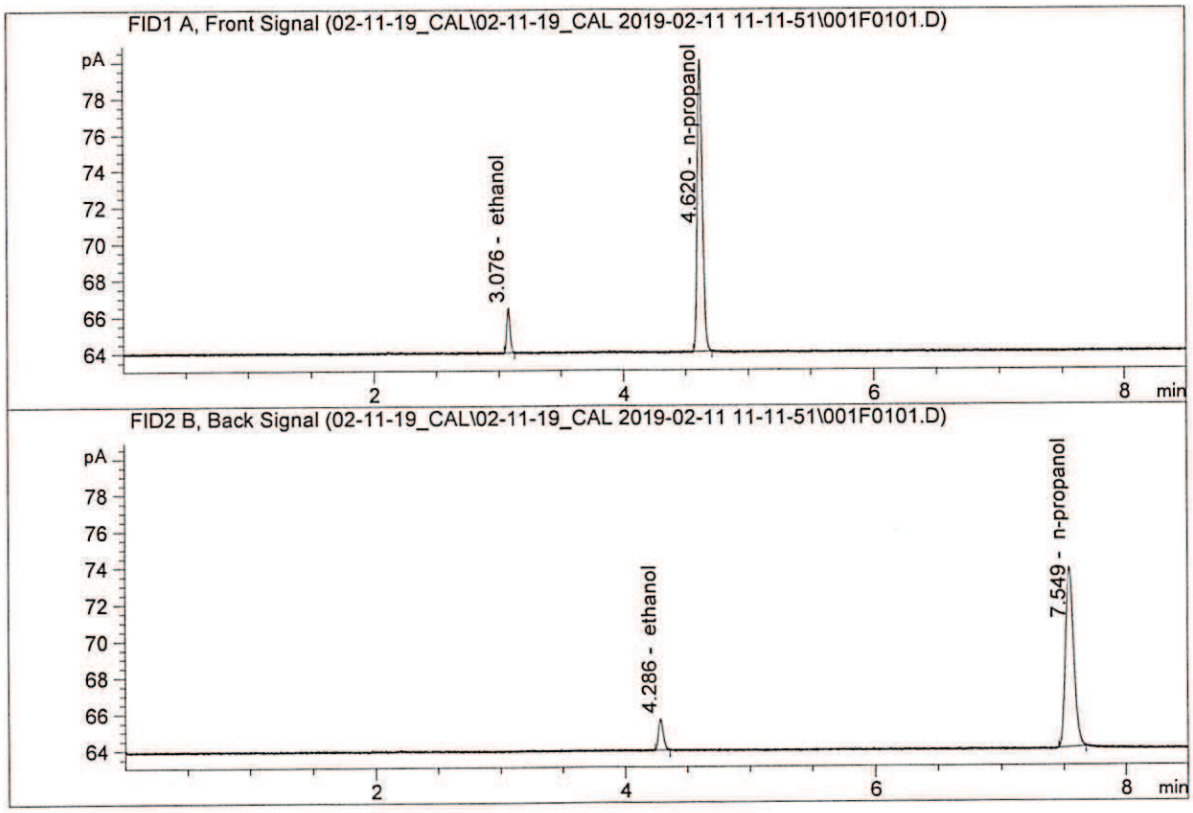
NB

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.050 FN04271601
Laboratory : Meridian
Injection Date : Feb 11, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

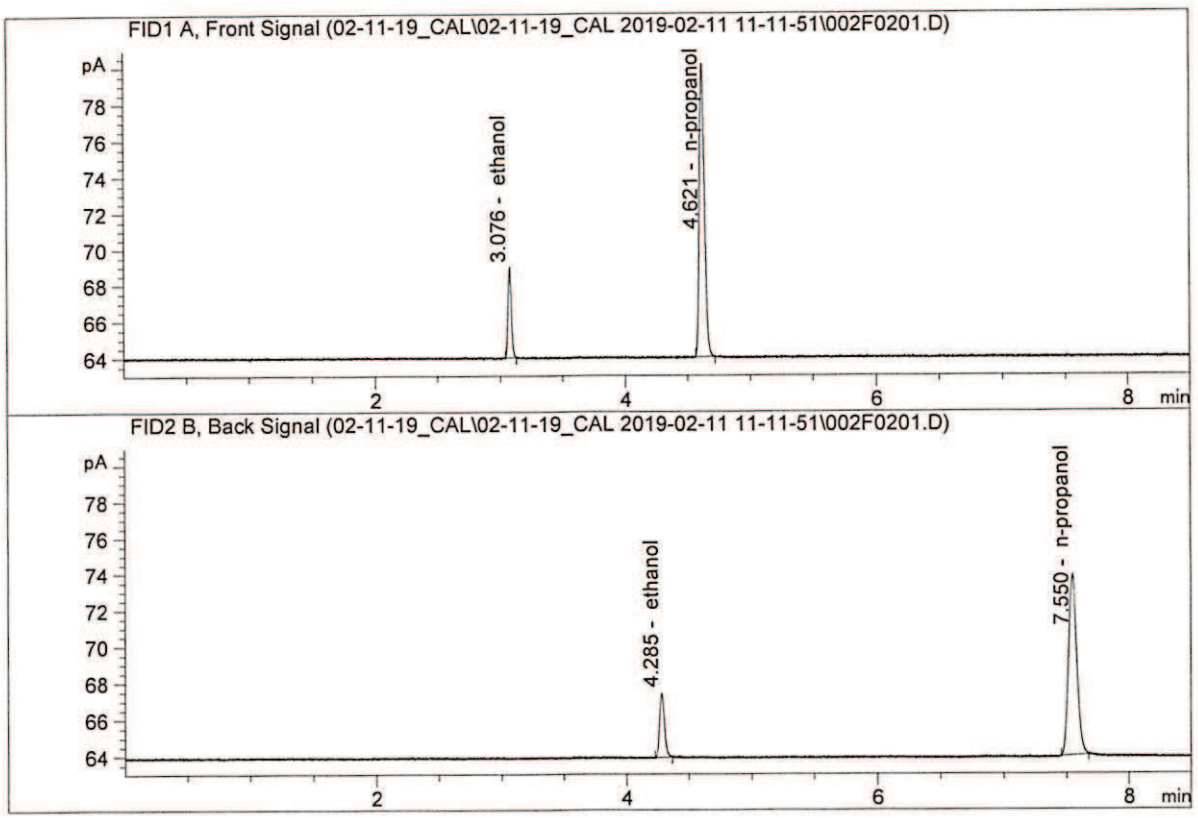


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	4.49802	0.0500	g/100cc
2.	Ethanol	Column 2:	4.57321	0.0515	g/100cc
3.	n-Propanol	Column 1:	45.57855	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.10727	1.0000	g/100cc

NB

ISP Forensic Services Blood Alcohol Report

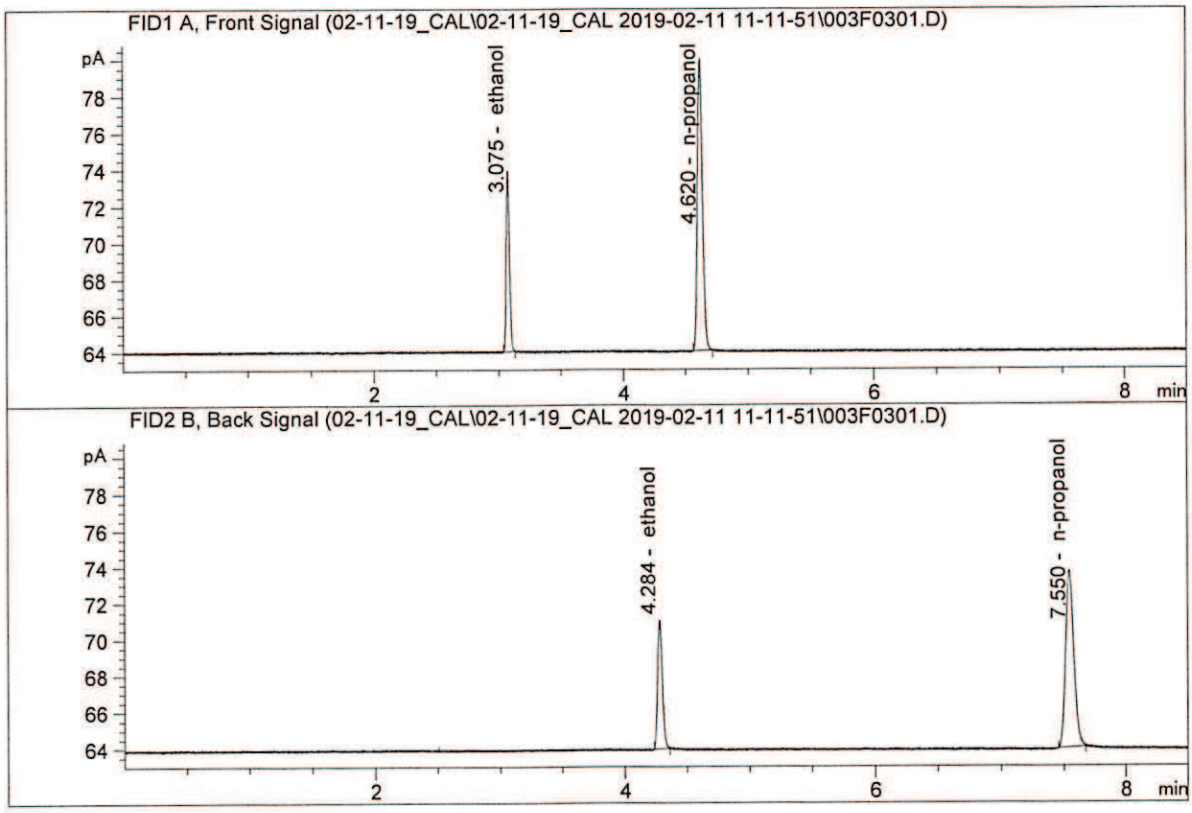
Sample Name : 0.100 FN08101601
Laboratory : Meridian
Injection Date : Feb 11, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	9.08496	0.0994	g/100cc
2.	Ethanol	Column 2:	9.40835	0.1011	g/100cc
3.	n-Propanol	Column 1:	45.91364	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.98447	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

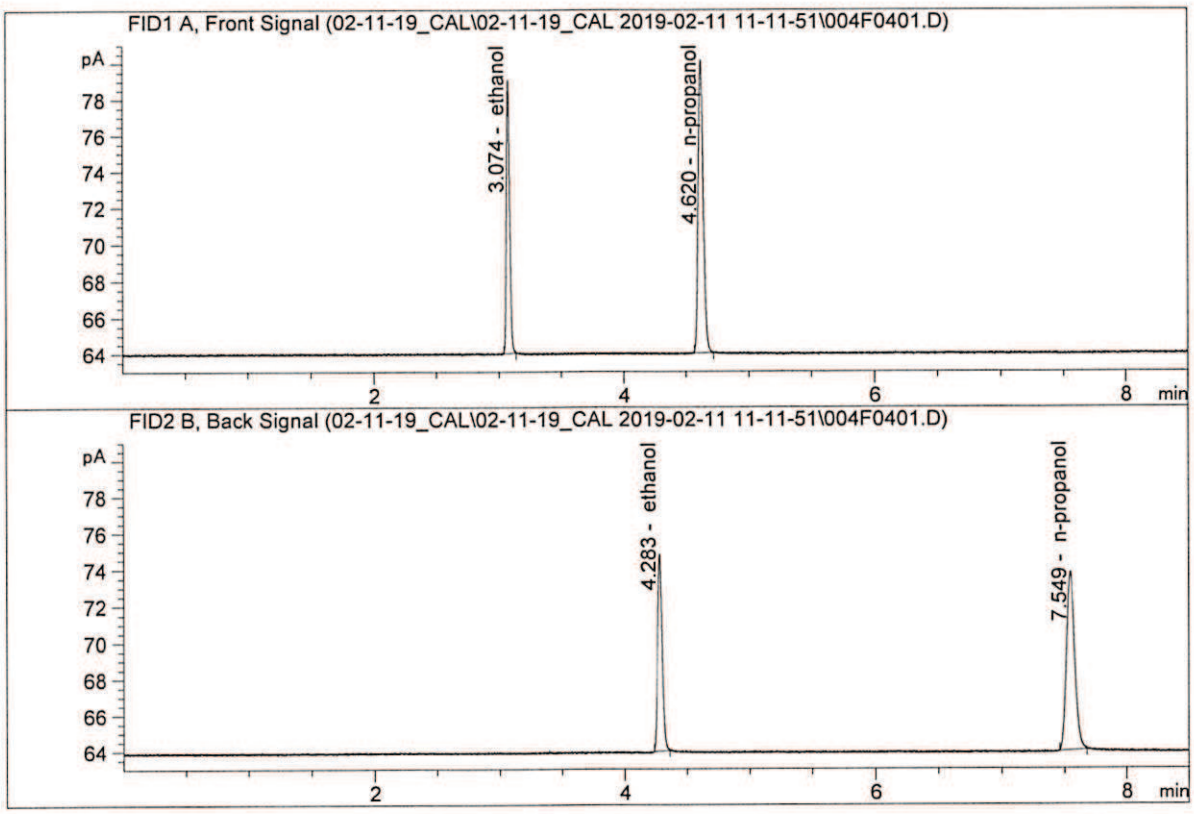
Sample Name : 0.200 FN03301601
Laboratory : Meridian
Injection Date : Feb 11, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.20168	0.2004	g/100cc
2.	Ethanol	Column 2:	18.65120	0.1978	g/100cc
3.	n-Propanol	Column 1:	45.42995	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.44240	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

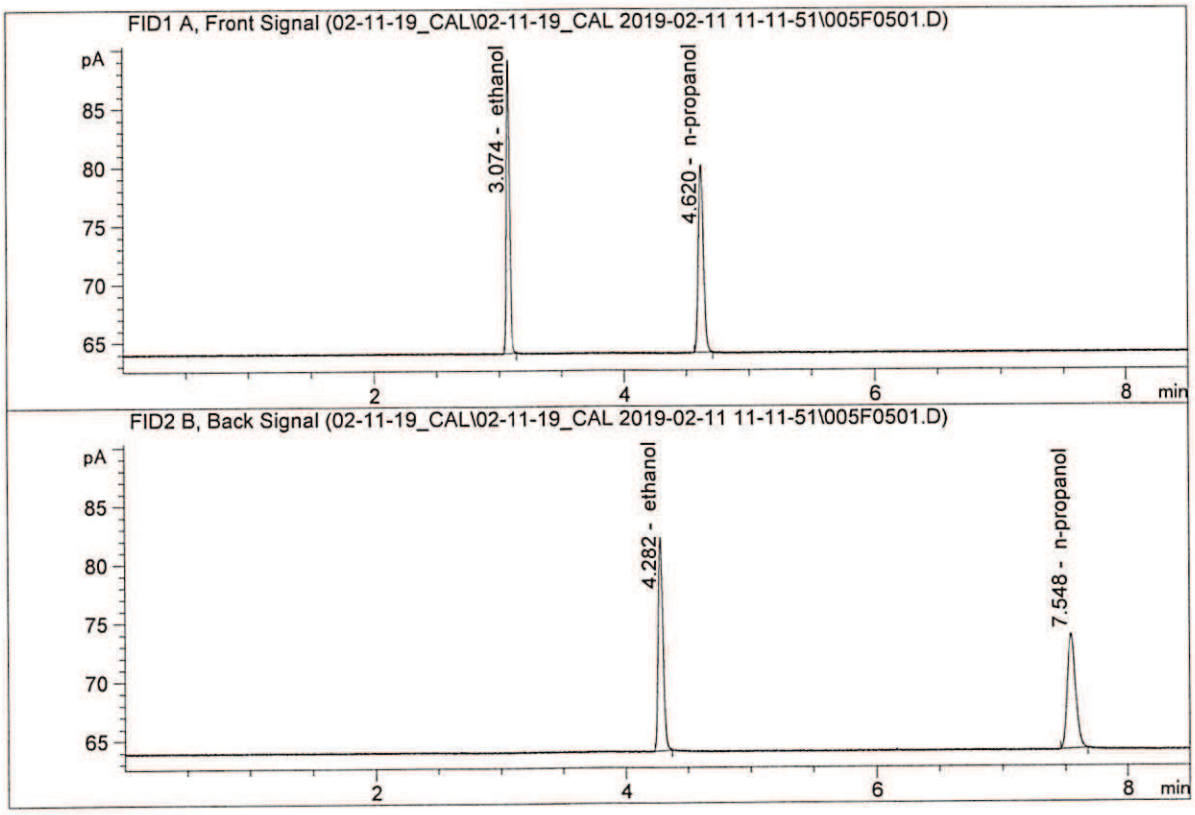
Sample Name : 0.300 FN02121601
Laboratory : Meridian
Injection Date : Feb 11, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	27.60642	0.3006	g/100cc
2.	Ethanol	Column 2:	28.56290	0.2978	g/100cc
3.	n-Propanol	Column 1:	45.85249	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.84248	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

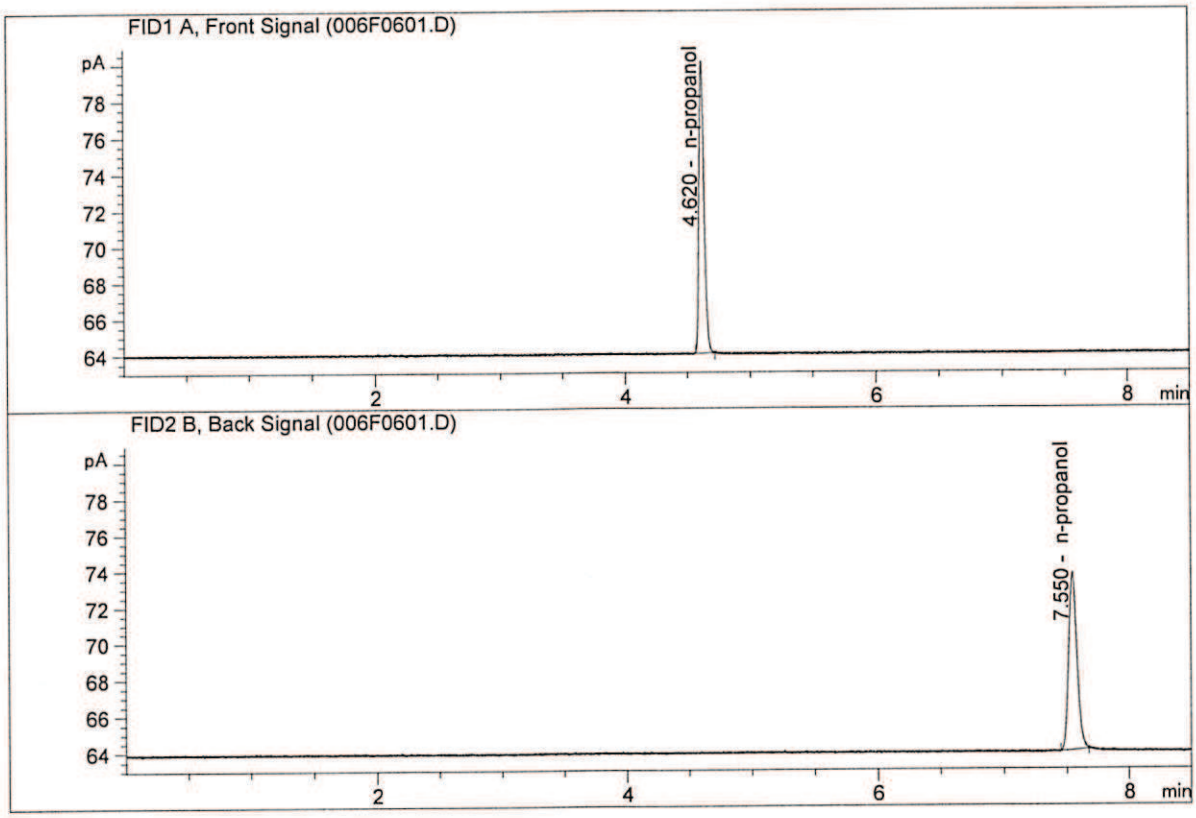
Sample Name : 0.500 FN08031602
Laboratory : Meridian
Injection Date : Feb 11, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	45.65176	0.4996	g/100cc
2.	Ethanol	Column 2:	47.97281	0.5018	g/100cc
3.	n-Propanol	Column 1:	45.57214	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.38239	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name	:	INTERNAL STANDARD BLANK
Laboratory	:	Meridian
Injection Date	:	Feb 11, 2019
Method	:	ALCOHOL.M
Acq. Instrument	:	CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	45.76240	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.81917	1.0000	g/100cc

Sequence File C:\Chem32\1\Data\02-11-19_CAL\02-11-19_CAL 2019-02-11 11-11-51\02-11-19_CAL.S

Sample Summary

Sequence table: C:\Chem32\1\Data\02-11-19_CAL\02-11-19_CAL 2019-02-11 11-11-51\02-11-19_CAL.S
Data directory path: C:\Chem32\1\Data\02-11-19_CAL\02-11-19_CAL 2019-02-11 11-11-51\
Logbook: C:\Chem32\1\Data\02-11-19_CAL\02-11-19_CAL 2019-02-11 11-11-51\02-11-19_CAL.LOG
Sequence start: 2/11/2019 11:26:28 AM
Sequence Operator: SYSTEM
Operator: SYSTEM

Method file name: C:\Chem32\1\Data\02-11-19_CAL\02-11-19_CAL 2019-02-11 11-11-51\ALCOHOL.M

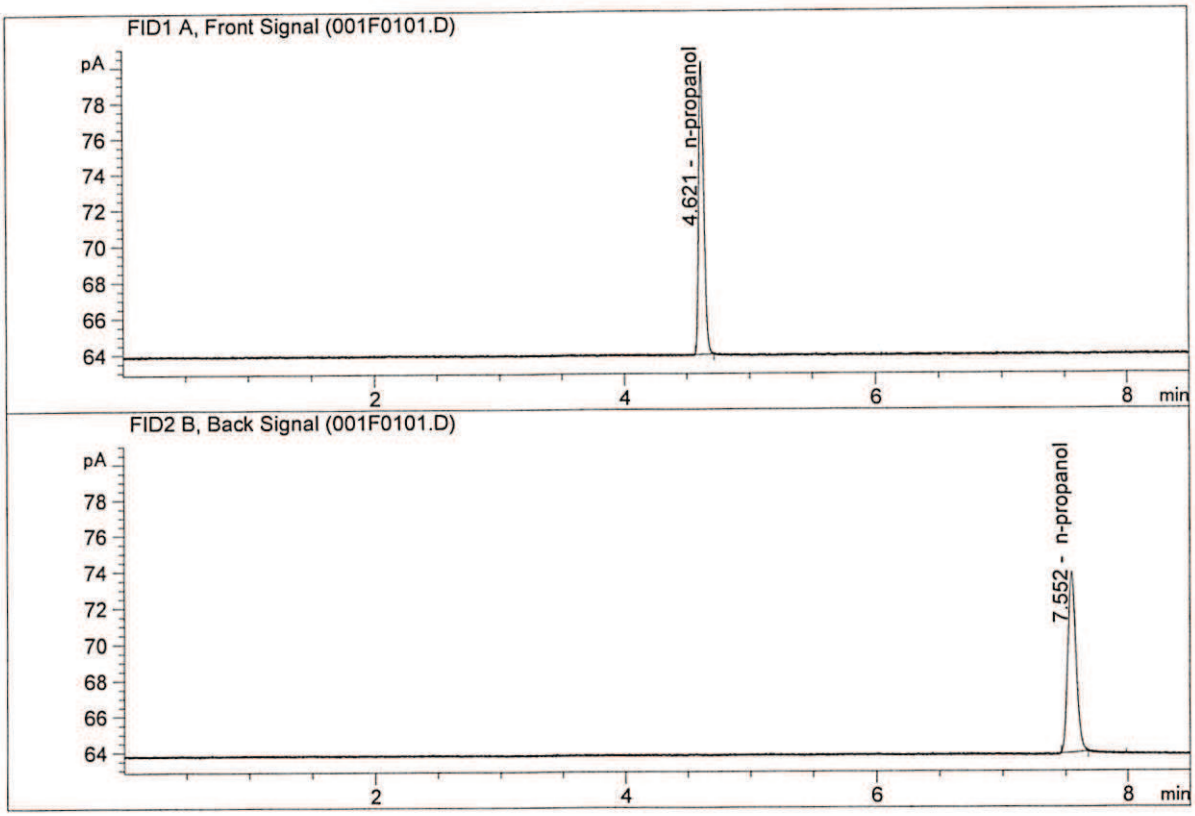
Run #	Location #	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal	# Cmp
1	1	1	0.050 FN04271601	-	1.0000	001F0101.D	*	4
2	2	1	0.100 FN08101601	-	1.0000	002F0201.D	*	4
3	3	1	0.200 FN03301601	-	1.0000	003F0301.D	*	4
4	4	1	0.300 FN02121601	-	1.0000	004F0401.D	*	4
5	5	1	0.500 FN08031602	-	1.0000	005F0501.D	*	4
6	6	1	INTERNAL STANDAR	-	1.0000	006F0601.D		2

master alcohol.m was updated w/ this set of calibrators

NB

ISP Forensic Services Blood Alcohol Report

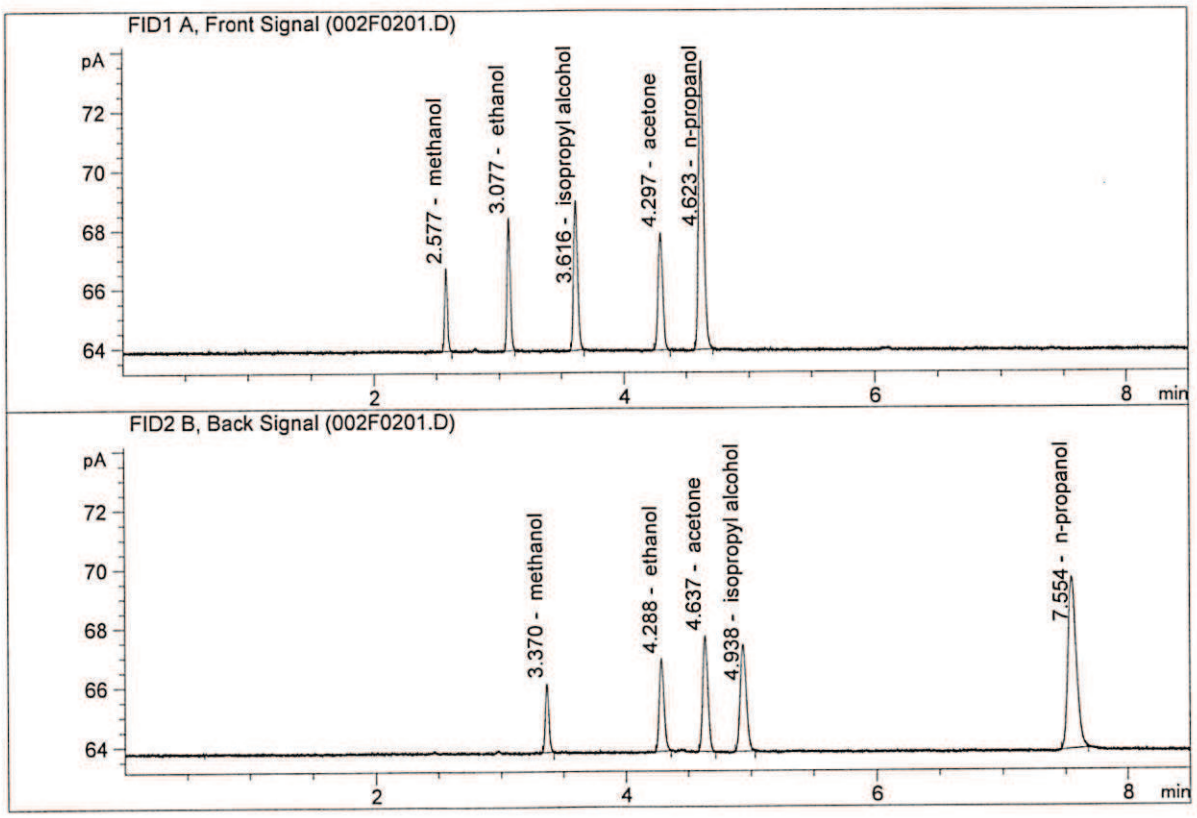
Sample Name : INTERNAL STD BLK 1
Laboratory : Meridian
Injection Date : Feb 11, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	46.15292	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.72300	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : MIX VOL FN06041502
Laboratory : Meridian
Injection Date : Feb 11, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	8.03934	0.1459	g/100cc
2.	Ethanol	Column 2:	8.21380	0.1469	g/100cc
3.	n-Propanol	Column 1:	27.59757	1.0000	g/100cc
4.	n-Propanol	Column 2:	27.78024	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-1 **Analysis Date(s): 11 Feb 2019**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0790	0.0799	0.0009	0.0794	0.0789	
(g/100cc)	0.0781	0.0786	0.0005	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: ML600HC11378

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

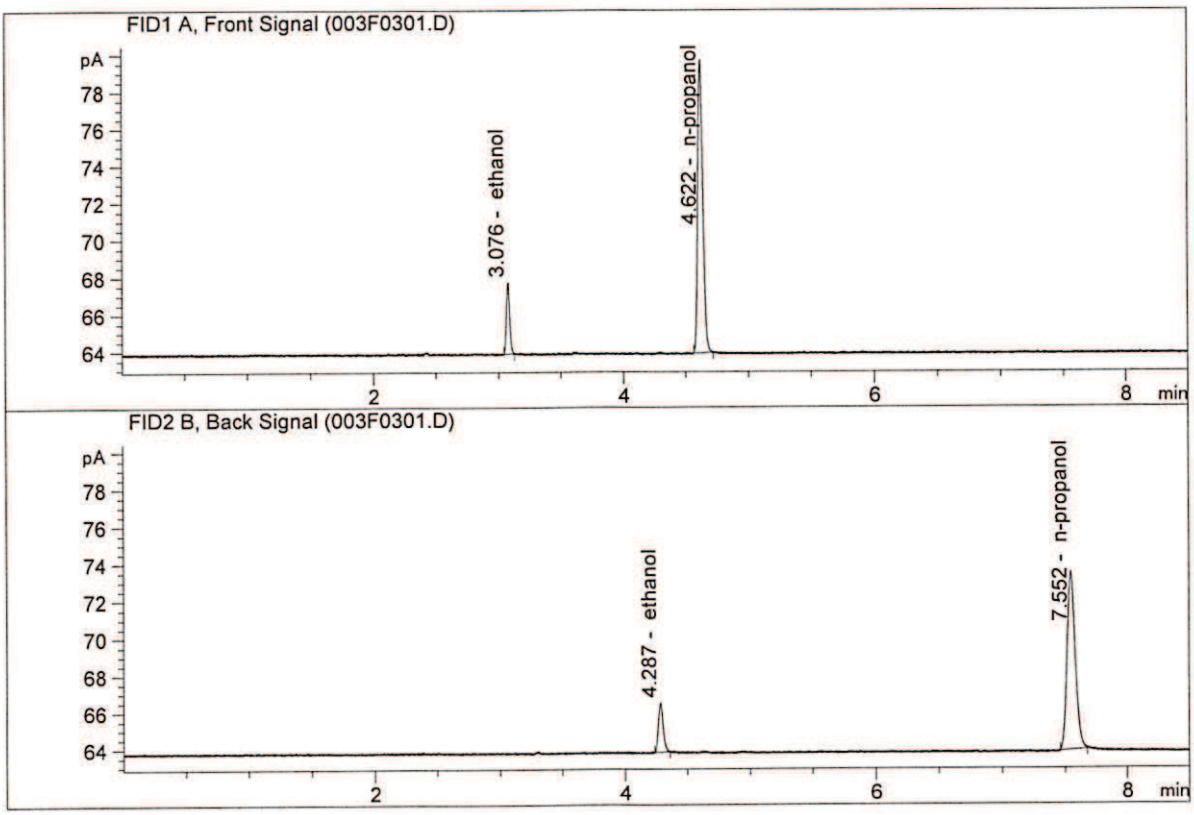
	Reported Result	
	0.078	

Calibration and control data are stored centrally.

NB

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-1-A
Laboratory : Meridian
Injection Date : Feb 11, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

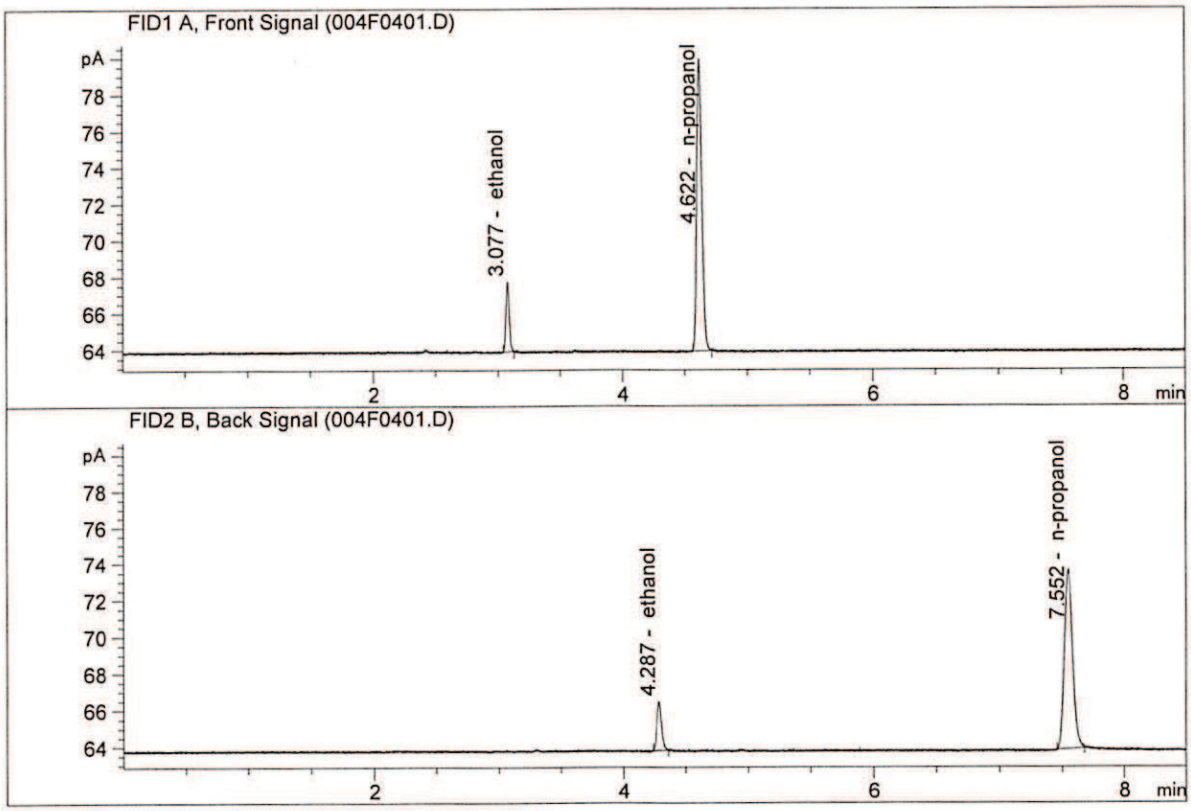


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.04572	0.0790	g/100cc
2.	Ethanol	Column 2:	7.15423	0.0799	g/100cc
3.	n-Propanol	Column 1:	44.92982	1.0000	g/100cc
4.	n-Propanol	Column 2:	45.82208	1.0000	g/100cc

NB

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-1-B
Laboratory : Meridian
Injection Date : Feb 11, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.05882	0.0781	g/100cc
2.	Ethanol	Column 2:	7.16007	0.0786	g/100cc
3.	n-Propanol	Column 1:	45.52168	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.63504	1.0000	g/100cc

NB

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 0.08 FN04171701 **Analysis Date(s): 11 Feb 2019**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0801	0.0802	0.0001	0.0801	0.0803	
(g/100cc)	0.0804	0.0805	0.0001	0.0804		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information *Instrument method is stored centrally.*

Refer to Instrument Method: Alcohol.m
Hamilton Auto-Dilutor Serial Number: ML600HC11378

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

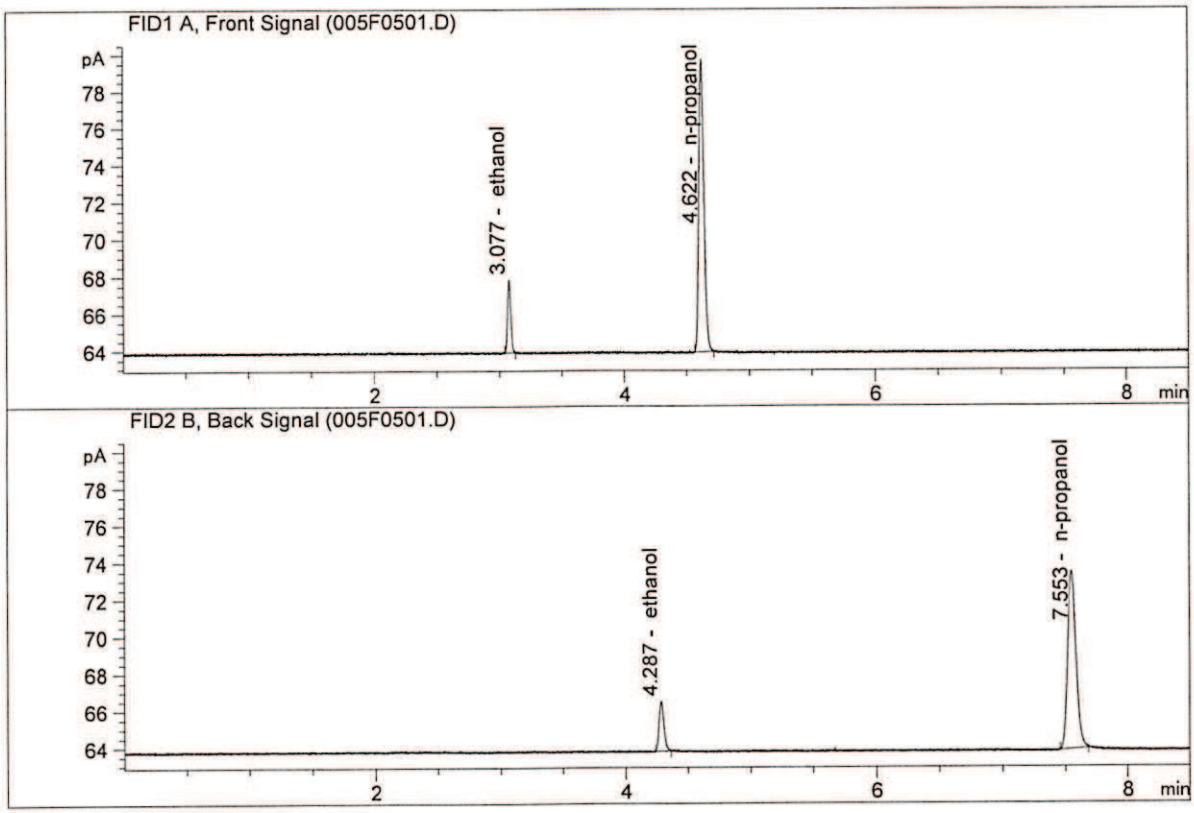
Overall Mean (g/100cc)	Low	High	5% of Mean
0.080	0.076	0.084	0.004

	Reported Result	
	0.080	

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN04171701-A
Laboratory : Meridian
Injection Date : Feb 11, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

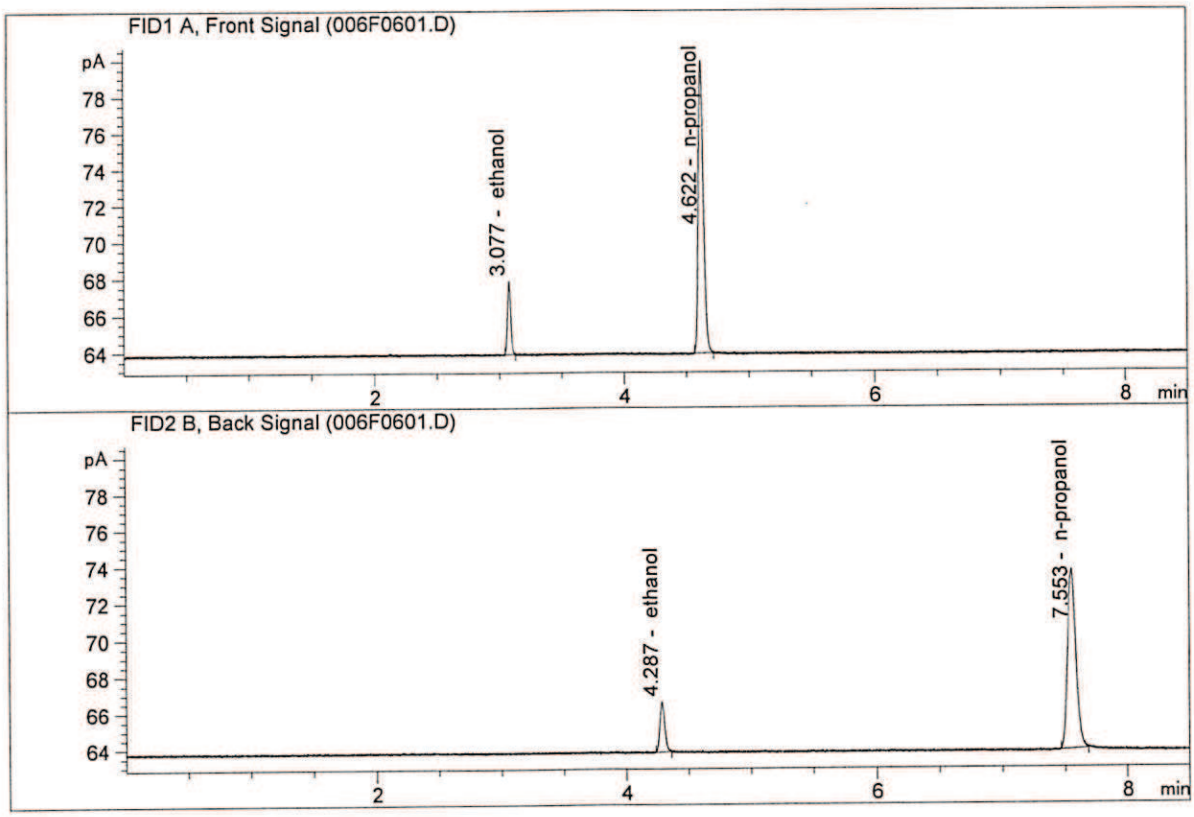


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.17191	0.0801	g/100cc
2.	Ethanol	Column 2:	7.24011	0.0802	g/100cc
3.	n-Propanol	Column 1:	45.06336	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.16570	1.0000	g/100cc

NB

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN04171701-B
Laboratory : Meridian
Injection Date : Feb 11, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.30455	0.0804	g/100cc
2.	Ethanol	Column 2:	7.36363	0.0805	g/100cc
3.	n-Propanol	Column 1:	45.71770	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.77473	1.0000	g/100cc

NB

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC2-1 **Analysis Date(s): 11 Feb 2019**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.2015	0.2017	0.0002	0.2016	0.2023	
(g/100cc)	0.2031	0.2029	0.0002	0.2030		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information *Instrument method is stored centrally.*

Refer to Instrument Method: Alcohol.m
Hamilton Auto-Dilutor Serial Number: ML600HC11378

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

Overall Mean (g/100cc)	Low	High	5% of Mean
0.202	0.191	0.213	0.011

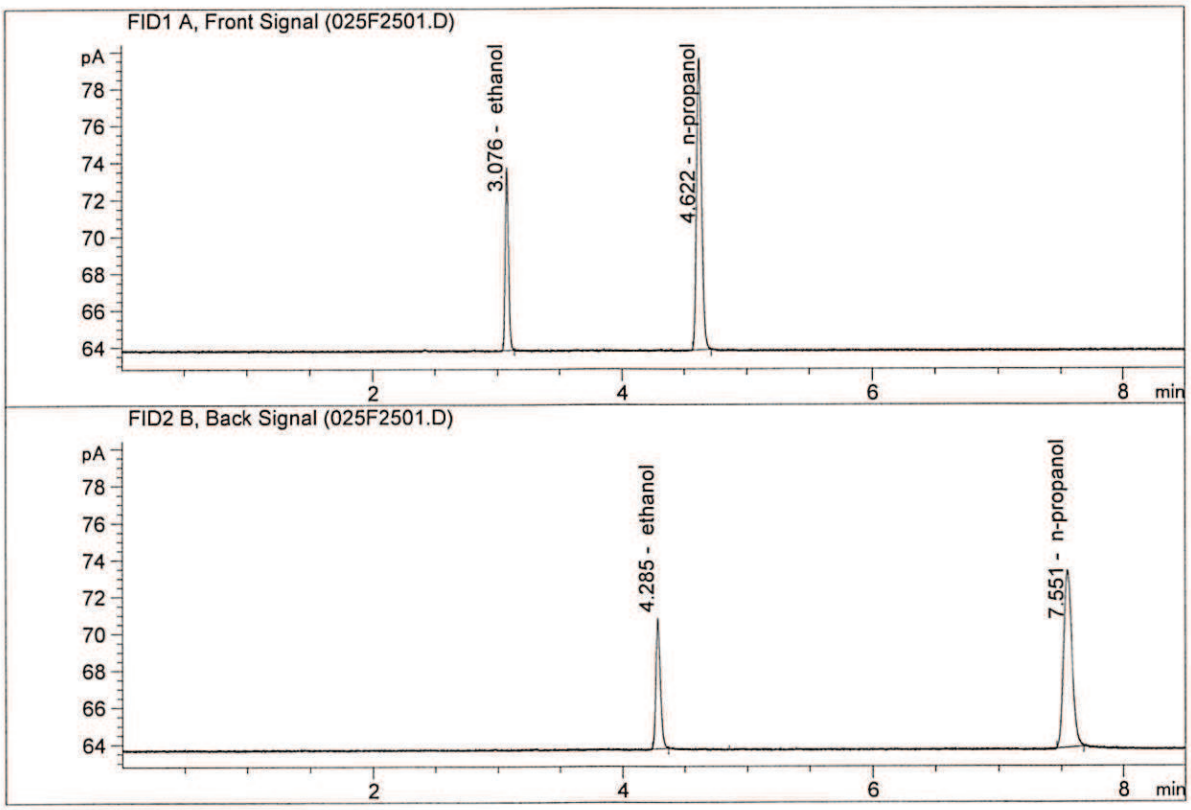
	Reported Result	
	0.202	

Calibration and control data are stored centrally.

NB

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-1-A
Laboratory : Meridian
Injection Date : Feb 11, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

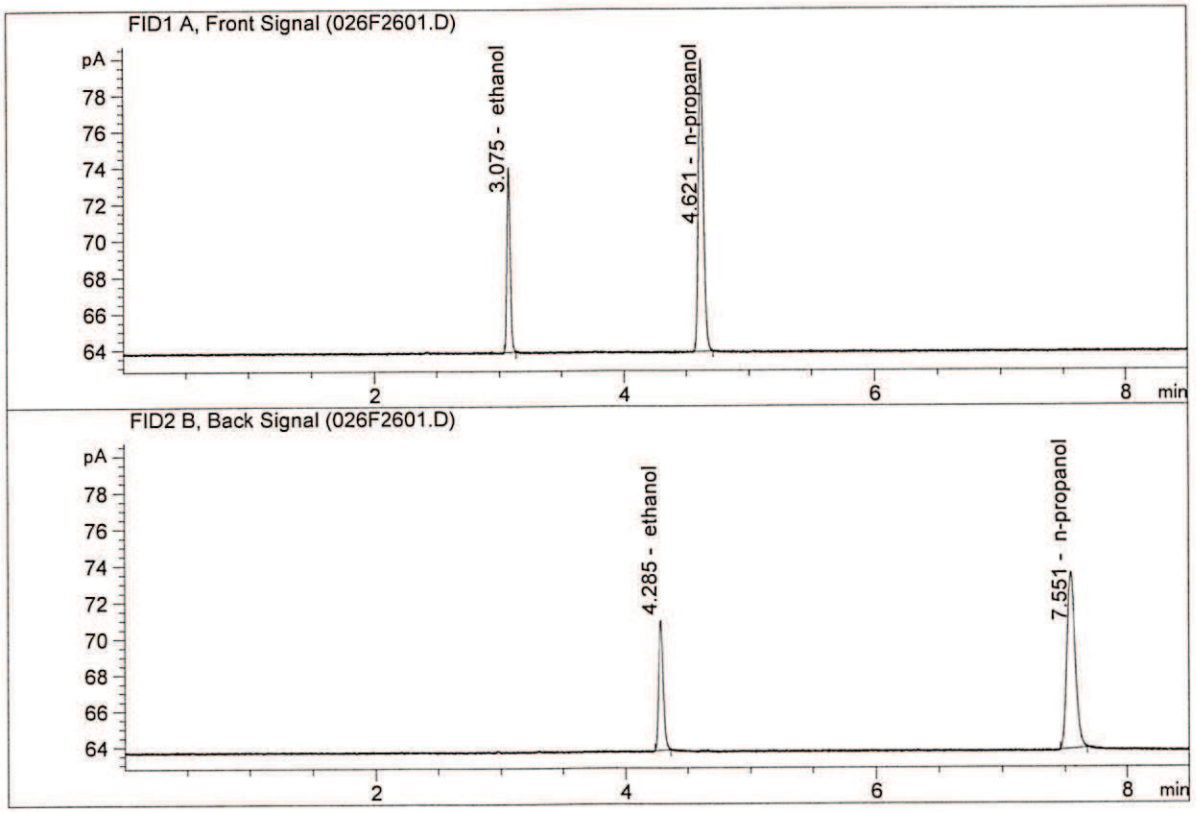


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.13661	0.2015	g/100cc
2.	Ethanol	Column 2:	18.77132	0.2017	g/100cc
3.	n-Propanol	Column 1:	45.00542	1.0000	g/100cc
4.	n-Propanol	Column 2:	45.80626	1.0000	g/100cc

NB

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-1-B
Laboratory : Meridian
Injection Date : Feb 11, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.55829	0.2031	g/100cc
2.	Ethanol	Column 2:	19.14106	0.2029	g/100cc
3.	n-Propanol	Column 1:	45.69085	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.44418	1.0000	g/100cc

NB

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-2 **Analysis Date(s): 11 Feb 2019**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0790	0.0798	0.0008	0.0794	0.0802	
(g/100cc)	0.0808	0.0815	0.0007	0.0811		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information *Instrument method is stored centrally.*

Refer to Instrument Method: Alcohol.m
Hamilton Auto-Dilutor Serial Number: ML600HC11378

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

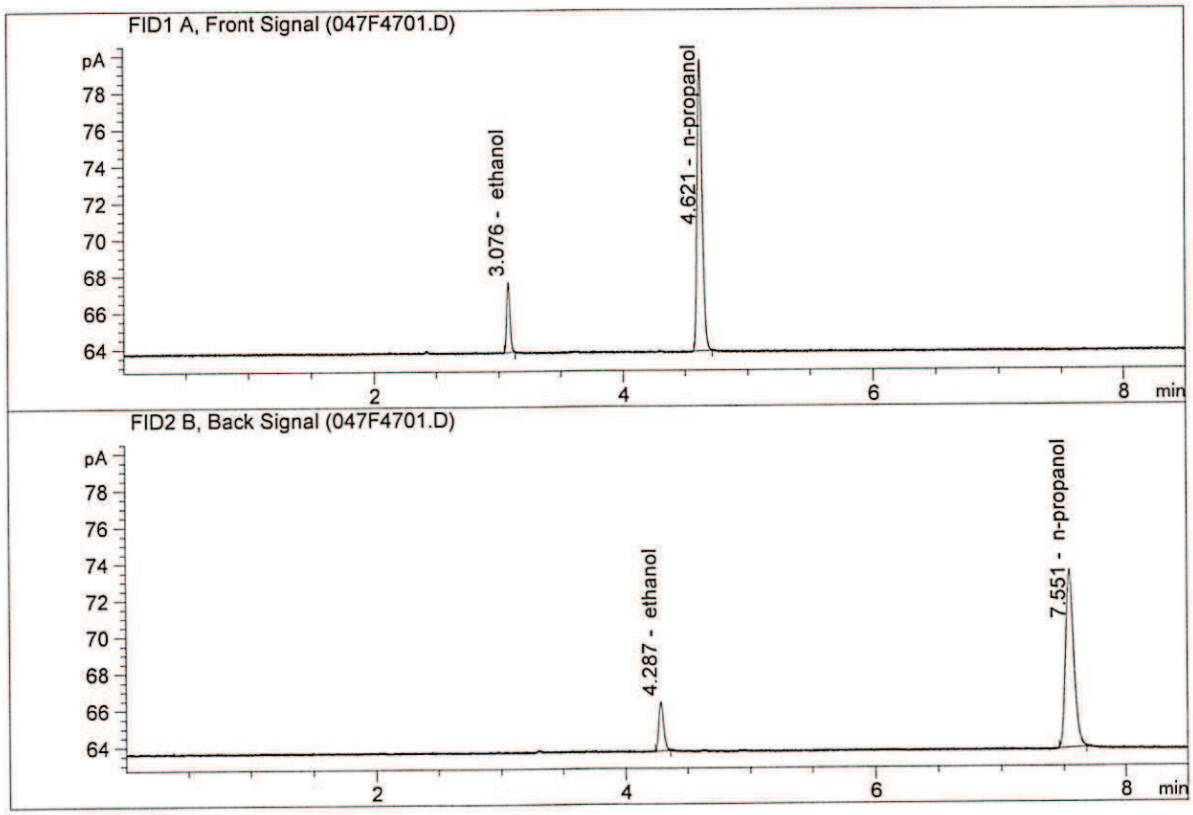
Overall Mean (g/100cc)	Low	High	5% of Mean
0.080	0.076	0.084	0.004

	Reported Result	
	0.080	

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-2-A
Laboratory : Meridian
Injection Date : Feb 11, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

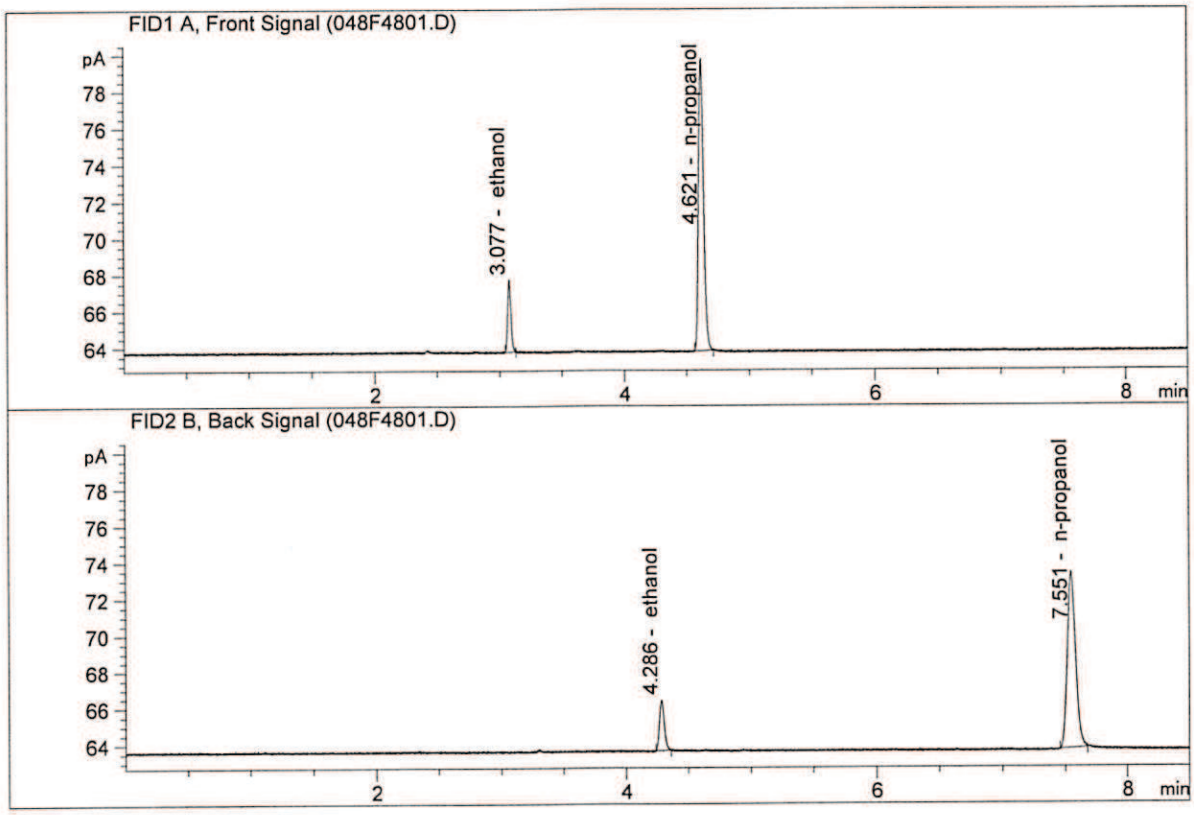


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.09114	0.0790	g/100cc
2.	Ethanol	Column 2:	7.19737	0.0798	g/100cc
3.	n-Propanol	Column 1:	45.17327	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.11182	1.0000	g/100cc

NB

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-2-B
Laboratory : Meridian
Injection Date : Feb 11, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.26269	0.0808	g/100cc
2.	Ethanol	Column 2:	7.36313	0.0815	g/100cc
3.	n-Propanol	Column 1:	45.23424	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.15376	1.0000	g/100cc

NB

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC2-2 **Analysis Date(s): 11 Feb 2019**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.2080	0.2077	0.0003	0.2078	0.2084	
(g/100cc)	0.2091	0.2090	0.0001	0.2090		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information *Instrument method is stored centrally.*

Refer to Instrument Method: Alcohol.m
Hamilton Auto-Dilutor Serial Number: ML600HC11378

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

Overall Mean (g/100cc)	Low	High	5% of Mean
0.208	**0.197**	**0.219**	**0.011**

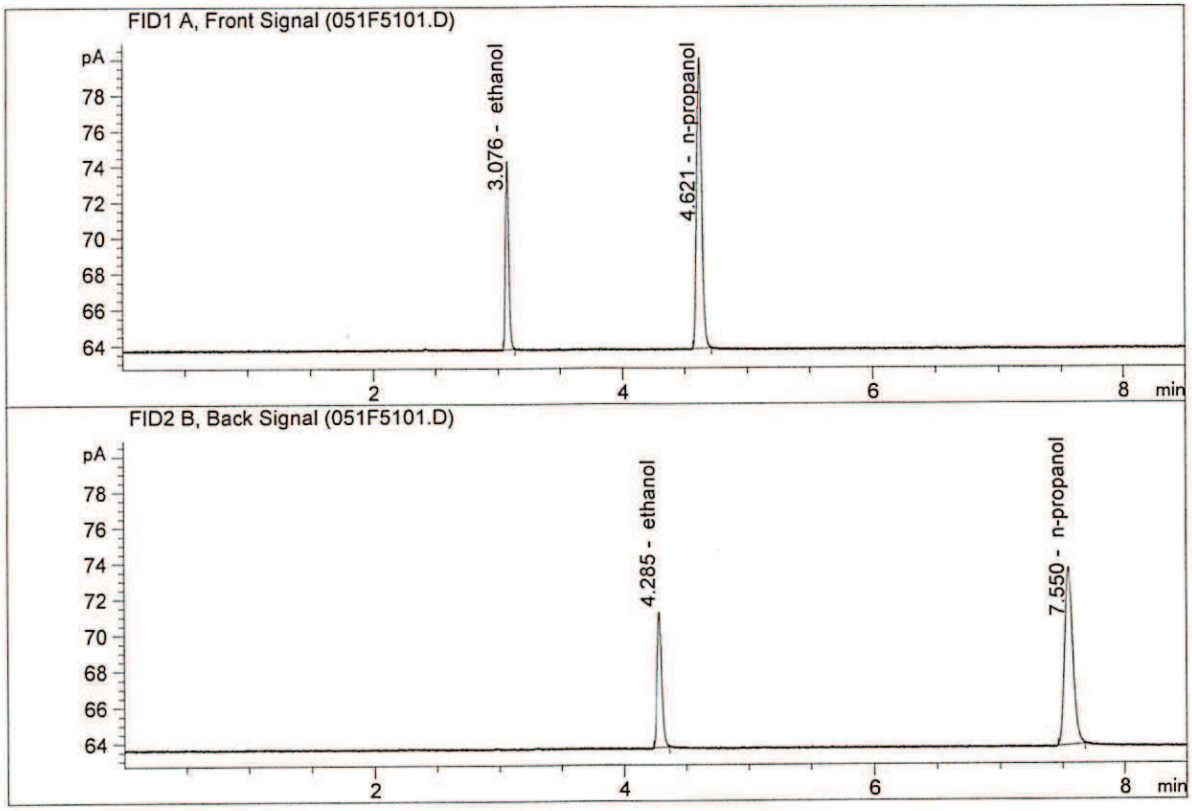
	Reported Result	
	0.208	

Calibration and control data are stored centrally.

NB

ISP Forensic Services Blood Alcohol Report

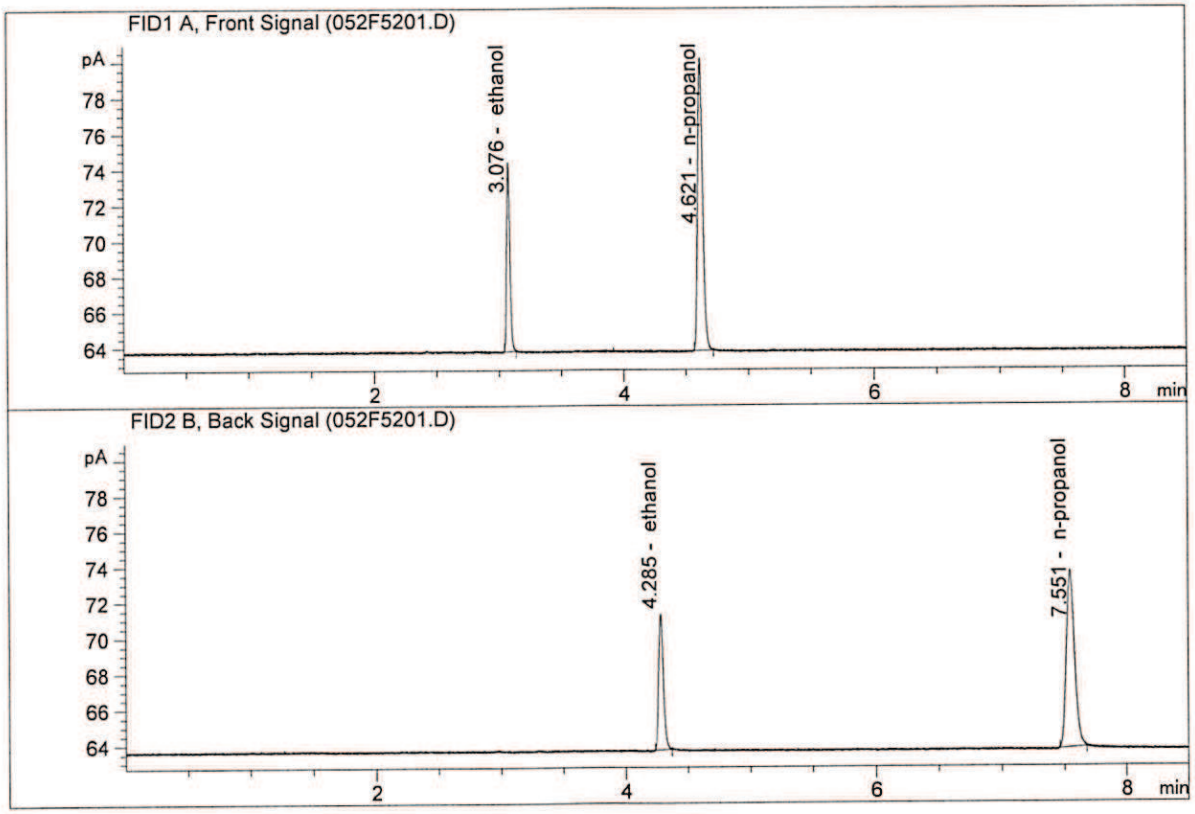
Sample Name : QC2-2-A
Laboratory : Meridian
Injection Date : Feb 11, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	19.21964	0.2080	g/100cc
2.	Ethanol	Column 2:	19.89380	0.2077	g/100cc
3.	n-Propanol	Column 1:	46.19105	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.12252	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-2-B
Laboratory : Meridian
Injection Date : Feb 11, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

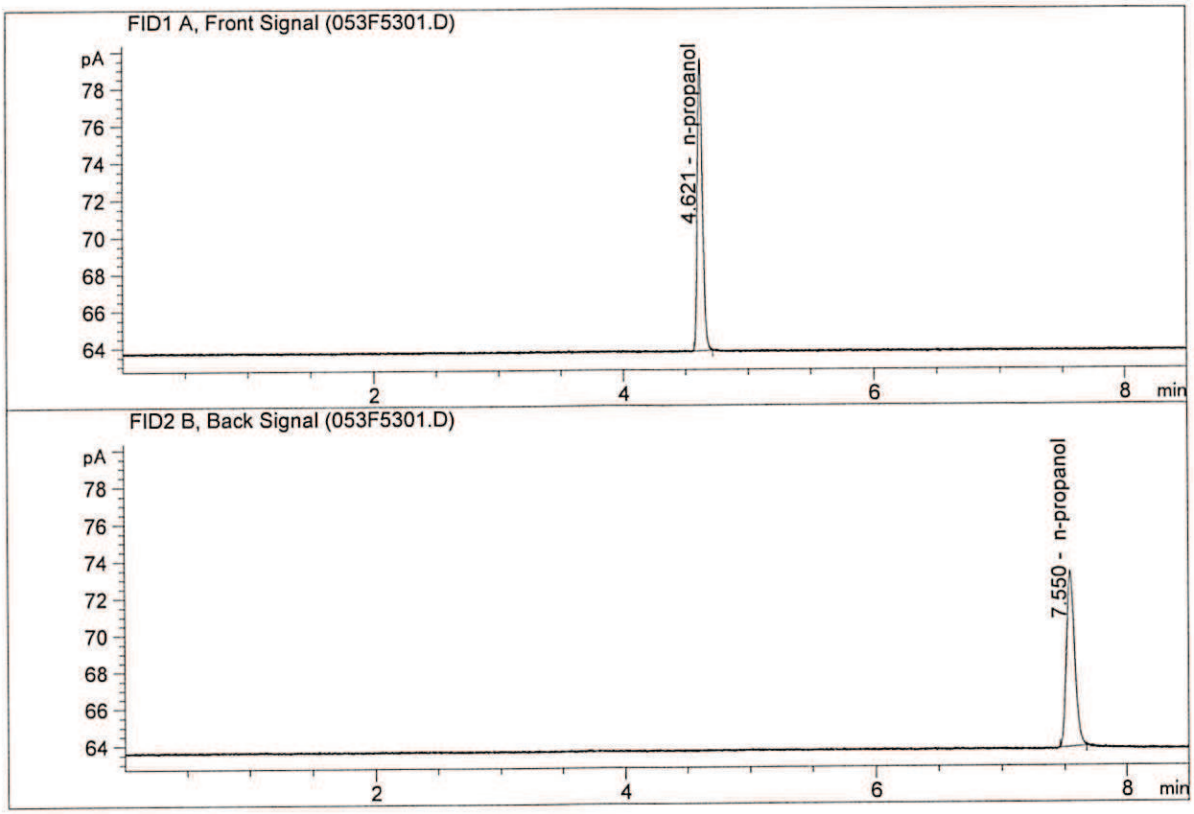


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	19.45245	0.2091	g/100cc
2.	Ethanol	Column 2:	20.10499	0.2090	g/100cc
3.	n-Propanol	Column 1:	46.50099	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.31125	1.0000	g/100cc

NB

ISP Forensic Services Blood Alcohol Report

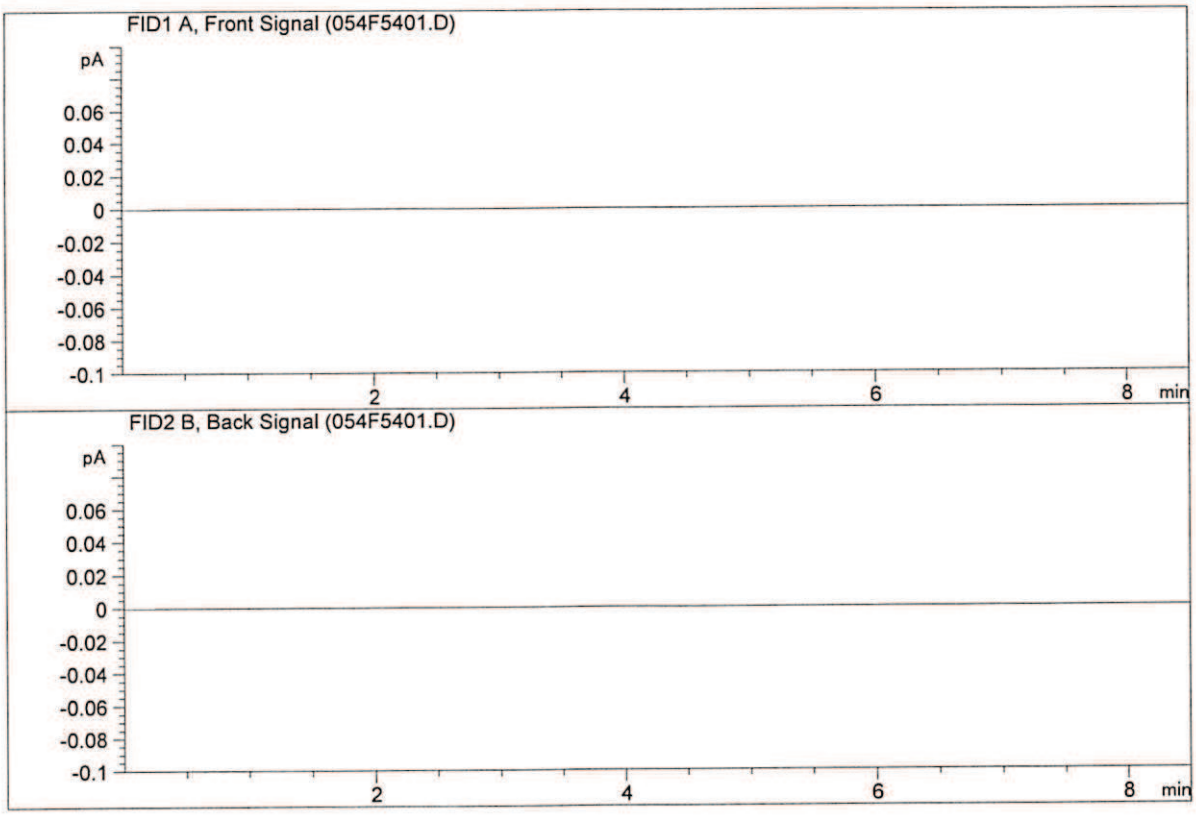
Sample Name : INTERNAL STD BLK
Laboratory : Meridian
Injection Date : Feb 12, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	44.81482	1.0000	g/100cc
4.	n-Propanol	Column 2:	45.43782	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : EMPTY
Laboratory : Meridian
Injection Date : Feb 12, 2019
Method : SHUTDOWN.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:	0.00000	0.0000	g/100cc
4.	n-Propanol	Column 2:	0.00000	0.0000	g/100cc

NB

Sample Summary

Sequence table: C:\Chem32\1\Data\02-11-19_SAMPLES\02-11-19_SAMPLES 2019-02-11 14-48-30\02-11-19_SAMPLES.S
Data directory path: C:\Chem32\1\Data\02-11-19_SAMPLES\02-11-19_SAMPLES 2019-02-11 14-48-30\
Logbook: C:\Chem32\1\Data\02-11-19_SAMPLES\02-11-19_SAMPLES 2019-02-11 14-48-30\02-11-19_SAMPLES.LOG
Sequence start: 2/11/2019 3:03:16 PM
Sequence Operator: SYSTEM
Operator: SYSTEM

Method file name: C:\Chem32\1\Data\02-11-19_SAMPLES\02-11-19_SAMPLES 2019-02-11 14-48-30\ALCOHOL.M

Run #	Location	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal	# Cmp
1	1	1	INTERNAL STD BLK	-	1.0000	001F0101.D		2
2	2	1	MIX VOL FN060415	-	1.0000	002F0201.D		10
3	3	1	QC1-1-A	-	1.0000	003F0301.D		4
4	4	1	QC1-1-B	-	1.0000	004F0401.D		4
5	5	1	0.08 FN04171701-	-	1.0000	005F0501.D		4
6	6	1	0.08 FN04171701-	-	1.0000	006F0601.D		4
7	7	1	M2019-0543-1-A	-	1.0000	007F0701.D		4
8	8	1	M2019-0543-1-B	-	1.0000	008F0801.D		4
9	9	1	M2019-0544-1-A	-	1.0000	009F0901.D		4
10	10	1	M2019-0544-1-B	-	1.0000	010F1001.D		4
11	11	1	M2019-0605-1-A	-	1.0000	011F1101.D		4
12	12	1	M2019-0605-1-B	-	1.0000	012F1201.D		4
13	13	1	M2019-0606-1-A	-	1.0000	013F1301.D		4
14	14	1	M2019-0606-1-B	-	1.0000	014F1401.D		4
15	15	1	M2019-0607-1-A	-	1.0000	015F1501.D		4
16	16	1	M2019-0607-1-B	-	1.0000	016F1601.D		4
17	17	1	M2019-0608-1-A	-	1.0000	017F1701.D		4
18	18	1	M2019-0608-1-B	-	1.0000	018F1801.D		4
19	19	1	M2019-0609-1-A	-	1.0000	019F1901.D		4
20	20	1	M2019-0609-1-B	-	1.0000	020F2001.D		4
21	21	1	M2019-0630-1-A	-	1.0000	021F2101.D		4
22	22	1	M2019-0630-1-B	-	1.0000	022F2201.D		4
23	23	1	M2019-0668-1-A	-	1.0000	023F2301.D		4
24	24	1	M2019-0668-1-B	-	1.0000	024F2401.D		4
25	25	1	QC2-1-A	-	1.0000	025F2501.D		4
26	26	1	QC2-1-B	-	1.0000	026F2601.D		4
27	27	1	M2019-0677-2-A	-	1.0000	027F2701.D		4
28	28	1	M2019-0677-2-B	-	1.0000	028F2801.D		4
29	29	1	M2019-0678-1-A	-	1.0000	029F2901.D		4
30	30	1	M2019-0678-1-B	-	1.0000	030F3001.D		4
31	31	1	M2019-0686-1-A	-	1.0000	031F3101.D		3
32	32	1	M2019-0686-1-B	-	1.0000	032F3201.D		3
33	33	1	M2019-0690-1-A	-	1.0000	033F3301.D		4
34	34	1	M2019-0690-1-B	-	1.0000	034F3401.D		4
35	35	1	M2019-0696-1-A	-	1.0000	035F3501.D		4
36	36	1	M2019-0696-1-B	-	1.0000	036F3601.D		4
37	37	1	M2019-0697-1-A	-	1.0000	037F3701.D		4
38	38	1	M2019-0697-1-B	-	1.0000	038F3801.D		4
39	39	1	M2019-0698-1-A	-	1.0000	039F3901.D		4
40	40	1	M2019-0698-1-B	-	1.0000	040F4001.D		4
41	41	1	M2019-0699-1-A	-	1.0000	041F4101.D		4
42	42	1	M2019-0699-1-B	-	1.0000	042F4201.D		4
43	43	1	M2019-0726-1-A	-	1.0000	043F4301.D		4

Sequence File C:\Chem32\...9_SAMPLES\02-11-19_SAMPLES 2019-02-11 14-48-30\02-11-19_SAMPLES.S

Run #	Location #	Inj	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal	# Cmp
44	44	1	M2019-0726-1-B	-	1.0000	044F4401.D		4
45	45	1	M2019-0727-1-A	-	1.0000	045F4501.D		4
46	46	1	M2019-0727-1-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	P2019-0450-2-A	-	1.0000	049F4901.D		4
50	50	1	P2019-0450-2-B	-	1.0000	050F5001.D		4
51	51	1	QC2-2-A	-	1.0000	051F5101.D		4
52	52	1	QC2-2-B	-	1.0000	052F5201.D		4
53	53	1	INTERNAL STD BLK	-	1.0000	053F5301.D		2

Method file name: C:\Chem32\1\Data\02-11-19_SAMPLES\02-11-19_SAMPLES 2019-02-11 14-48-30\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