APPROVED
By John Garner at 9:32 am, Aug 19, 2019

8/15/2019

LAB_CASE	ITEM	TASK_ID	DESCRIPTION	
P2019-2374	2	159291	Alcohol Analysis	
P2019-2379	1	159395	Alcohol Analysis	
P2019-2380	1	159398	Alcohol Analysis	
P2019-2381	1	159406	Alcohol Analysis	
P2019-2393	1	159433	Alcohol Analysis	
P2019-2394	1	159436	Alcohol Analysis	
P2019-2410	1	159560	Alcohol Analysis	
P2019-2435	1	159638	Alcohol Analysis	
P2019-2442	1	159740	Alcohol Analysis	
P2019-2443	1	159747	Alcohol Analysis	
P2019-2448	1	159762	Alcohol Analysis	
P2019-2449	1	159763	Alcohol Analysis	
P2019-2460	1	159926	Alcohol Analysis	
P2019-2475	1	160018	Alcohol Analysis	
P2019-2481	1	160299	Alcohol Analysis	
P2019-2489	1	160323	Alcohol Analysis	
P2019-2491	1	160329	Alcohol Analysis	
P2019-2507	3	160378	Alcohol Analysis	
P2019-2522	1	160469	Alcohol Analysis	
P2019-2524	1	160484	Alcohol Analysis	

P2019-1918 from Worklist 3592 Re-ran new samples
(RC)

Quantitative Analysis for Ethanol & Qualitative Analysis for Other Volatiles

Device: Hamilton MICROLAB Liquid Processor/Dilutor   Serial Number: MD96JF1032

Analytical Method(s): 1.0

Run Date(s): 08/15/19

Calibration Curve Run Date: 08/15/19

Volatiles Quality Assurance Controls

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Jan-22	1801036	0.0812	0.0731-0.0893	0.0751 g/100cc
					0.0776 g/100cc
Level 2	Mar-22	1803028	0.2035	0.1832-0.2238	0.1955 g/100cc
					0.2013 g/100cc

Multi-Component mixture: Cerilliant

Curve Fit:	Column 1	Lot #	FN07101701	
	0.99999	Column2	0.99989	

Ethanol Calibration Reference Material

Calibrator level	Target Value	Acceptable Range	Column 1	Column 2	Precision	Mean
50	0.050	0.045 - 0.055	0.0497	0.0474	0.0023	0.0485
100	0.100	0.090 - 0.110	0.0985	0.0952	0.0033	0.0968
200	0.200	0.180 - 0.220	0.1993	0.1953	0.004	0.1973
300	0.300	0.270 - 0.330	0.2991	0.2969	0.0022	0.298
500	0.500	0.450 - 0.550	0.5012	0.5050	0.0038	0.5031

Aqueous Controls

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

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

==
                          Calibration Table
==

                     General Calibration Setting

Calib. Data Modified :   Thursday, August 15, 2019 1:11:03 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   :   No recalibration if peaks missing

Curve Type   :   Linear
Origin   :   Forced
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   Name
  #   [g/100cc]
----|-------------|-------------------------
  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

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

```
   RT Sig Lvl   Amount       Area   Rsp.Factor Ref ISTD #    Compound
                [g/100cc]
-------|-|--|----------|----------|----------|---|---|-|-------------------
 2.311 2  1    1.00000    6.45200 1.54991e-1  No  No 2 Fluorinated ethane
 2.365 1  1    1.00000    1.84105 5.43168e-1  No  No 1 Fluorinated ethane
 2.685 1  1    1.00000    3.69669 2.70512e-1  No  No 1 Methanol
 2.950 2  1    1.00000   11.54700 8.66026e-2  No  No 2 Acetaldehyde
 2.975 1  1    1.00000   10.52400 9.50209e-2  No  No 1 Acetaldehyde
 3.321 1  1 5.00000e-2   11.85549 4.21746e-3  No  No 1 Ethanol
          2 1.00000e-1   23.95426 4.17462e-3
          3 2.00000e-1   48.88145 4.09153e-3
          4 3.00000e-1   73.52032 4.08050e-3
          5 5.00000e-1  122.55466 4.07981e-3
 3.372 2  1    1.00000    4.26062 2.34707e-1  No  No 2 Methanol
 3.993 1  1    1.00000    9.73055 1.02769e-1  No  No 1 Isopropyl alcohol
 4.315 2  1 5.00000e-2   10.74138 4.65489e-3  No  No 2 Ethanol
          2 1.00000e-1   21.95187 4.55542e-3
          3 2.00000e-1   45.23722 4.42114e-3
          4 3.00000e-1   68.63876 4.37071e-3
          5 5.00000e-1  115.52585 4.32804e-3
 4.704 2  1    1.00000    6.89301 1.45075e-1  No  No 2 Acetone
 4.853 1  1    1.00000    6.49940 1.53860e-1  No  No 1 Acetone
 5.050 2  1    1.00000   10.70642 9.34019e-2  No  No 2 Isopropyl alcohol
 5.265 1  1    1.00000  119.74349 8.35118e-3  No Yes 1 n-Propanol
          2    1.00000  122.04305 8.19383e-3
          3    1.00000  123.09604 8.12374e-3
          4    1.00000  123.35712 8.10654e-3
          5    1.00000  122.72312 8.14842e-3
          6    1.00000  111.45872 8.97193e-3
 7.739 2  1    1.00000  114.90358 8.70295e-3  No Yes 2 n-Propanol
          2    1.00000  116.78698 8.56260e-3
          3    1.00000  117.36192 8.52065e-3
          4    1.00000  117.12289 8.53804e-3
          5    1.00000  115.89050 8.62883e-3
          6    1.00000  113.50471 8.81021e-3
11.631 2  1    1.00000  864.84247 1.15628e-3  No  No 2 Toluene
12.229 1  1    1.00000  918.48389 1.08875e-3  No  No 1 Toluene
----------------------------------------------------------------------
```
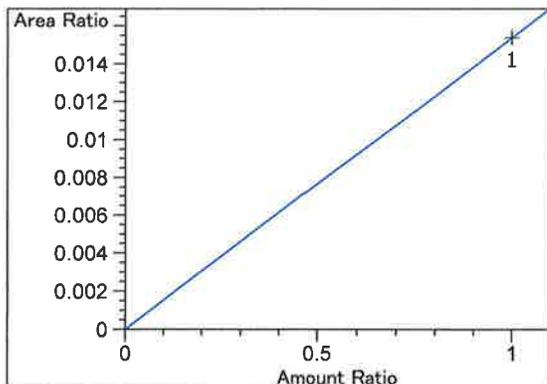

Peak Sum Table

No Entries in table

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Calibration Curves

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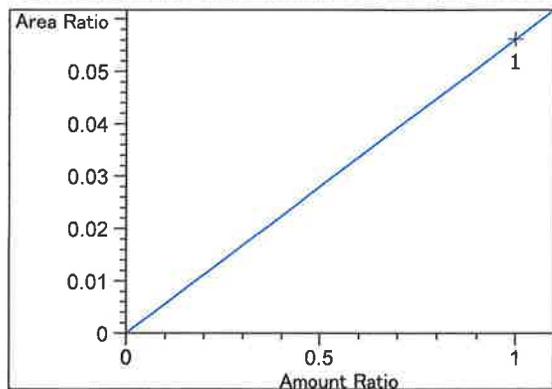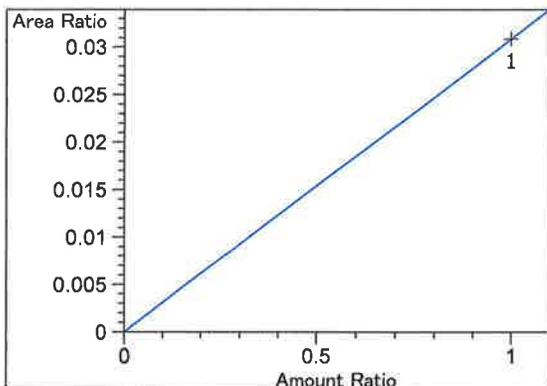

Fluorinated ethane at exp. RT: 2.311
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.:   0.00000
Formula: y = mx
         m: 5.61514e-2
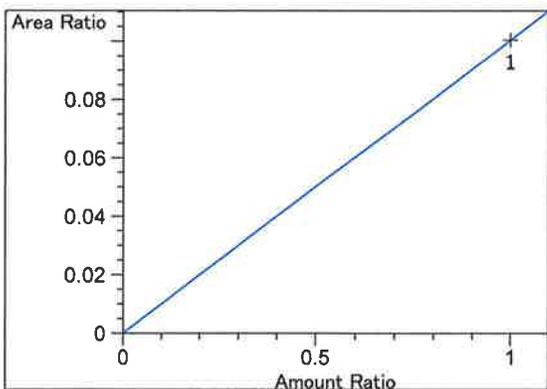   x: Amount Ratio
         y: Area Ratio

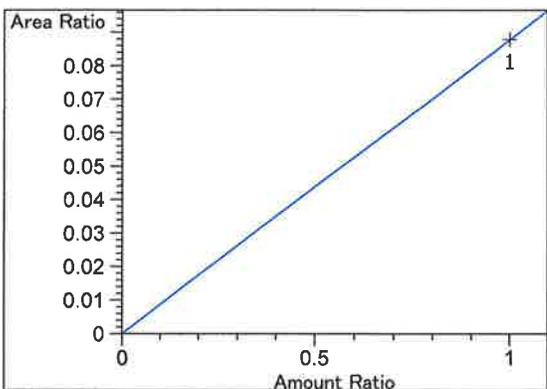Method C:\CHEM32\1\METHODS\ALCOHOL.M

Fluorinated ethane at exp. RT: 2.365
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.:   0.00000
Formula: y = mx
        m: 1.53750e-2
        x: Amount Ratio
        y: Area Ratio

Methanol at exp. RT: 2.685
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.:   0.00000
Formula: y = mx
        m: 3.08718e-2
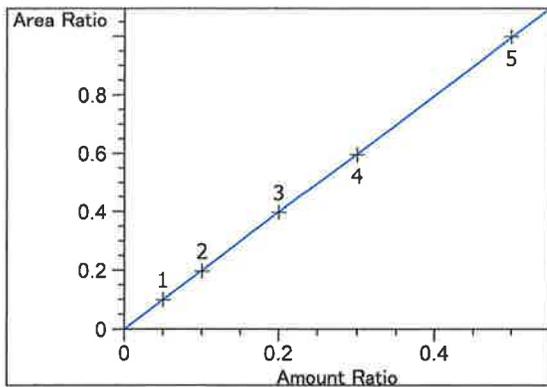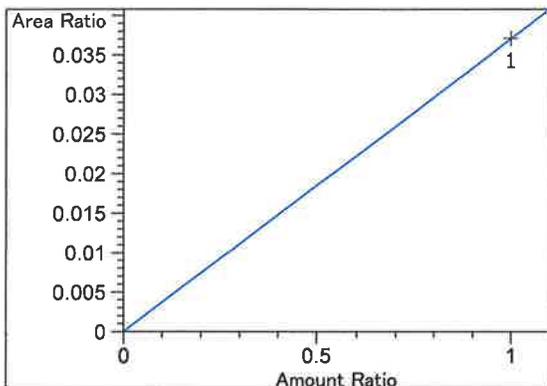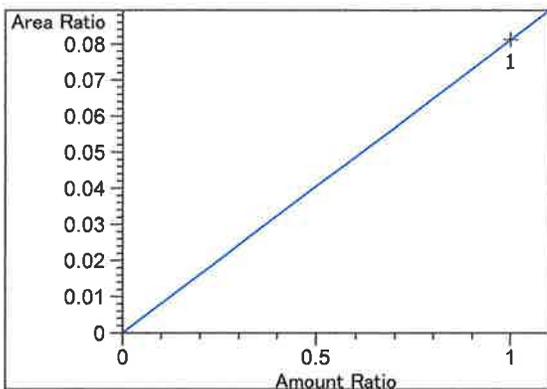   x: Amount Ratio
        y: Area Ratio

Acetaldehyde at exp. RT: 2.950
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.:   0.00000
Formula: y = mx
        m: 1.00493e-1
        x: Amount Ratio
        y: Area Ratio

Acetaldehyde at exp. RT: 2.975
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.:   0.00000
Formula: y = mx
        m: 8.78879e-2
        x: Amount Ratio
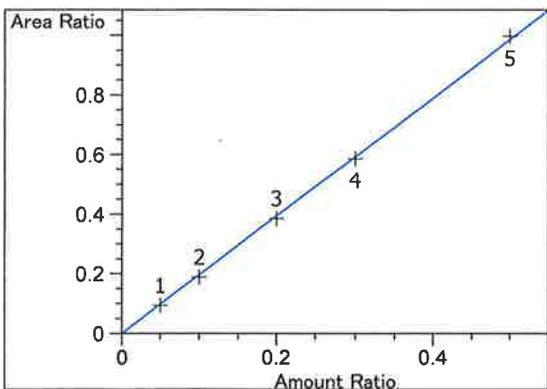   y: Area Ratio

Ethanol at exp. RT: 3.321
FID1 A, Front Signal
Correlation: 0.99999
Residual Std. Dev.:   0.00223
Formula: y = mx
    m: 1.99264
    x: Amount Ratio
    y: Area Ratio

Methanol at exp. RT: 3.372
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.:   0.00000
Formula: y = mx
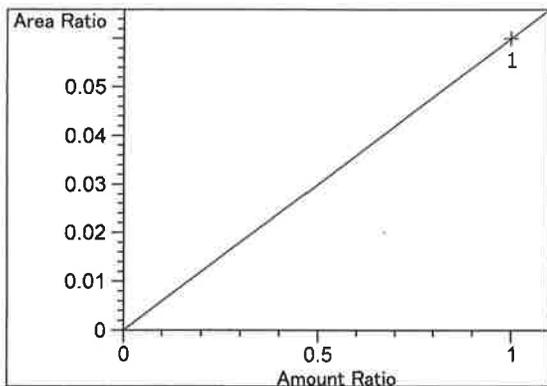   m: 3.70800e-2
    x: Amount Ratio
    y: Area Ratio

Isopropyl alcohol at exp. RT: 3.993
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.:   0.00000
Formula: y = mx
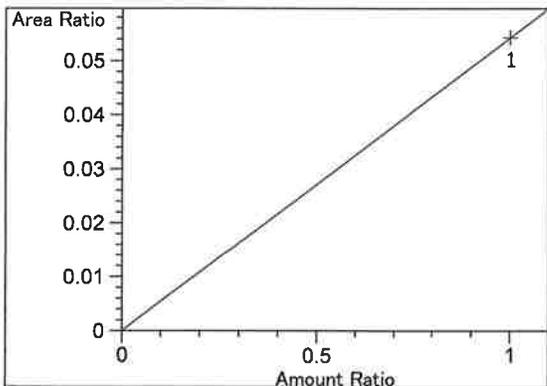   m: 8.12616e-2
    x: Amount Ratio
    y: Area Ratio

Ethanol at exp. RT: 4.315
FID2 B, Back Signal
Correlation: 0.99989
Residual Std. Dev.:   0.00920
Formula: y = mx
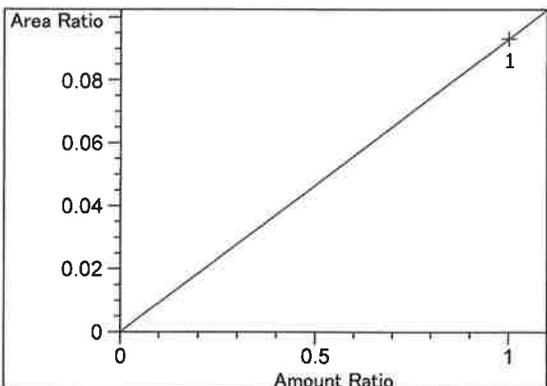   m: 1.97401
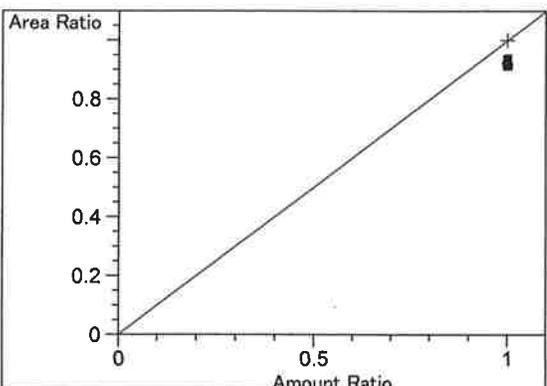   x: Amount Ratio
    y: Area Ratio

Acetone at exp. RT: 4.704
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.:   0.00000
Formula: y = mx
     m: 5.99895e-2
     x: Amount Ratio
     y: Area Ratio

Acetone at exp. RT: 4.853
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.:   0.00000
Formula: y = mx
     m: 5.42777e-2
     x: Amount Ratio
     y: Area Ratio

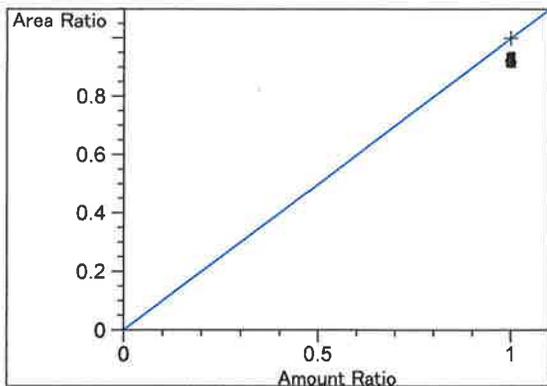

Isopropyl alcohol at exp. RT: 5.050
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.:   0.00000
Formula: y = mx
     m: 9.31774e-2
     x: Amount Ratio
     y: Area Ratio

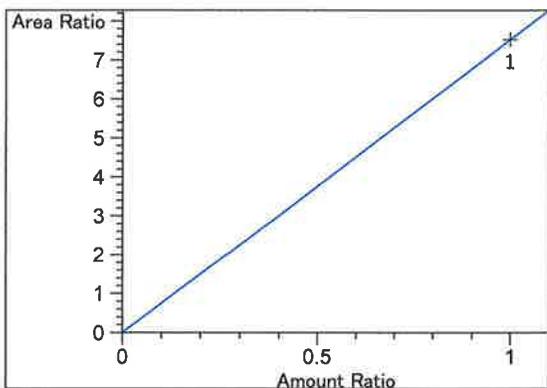n-Propanol at exp. RT: 5.265
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.:   0.00000
Formula: y = mx
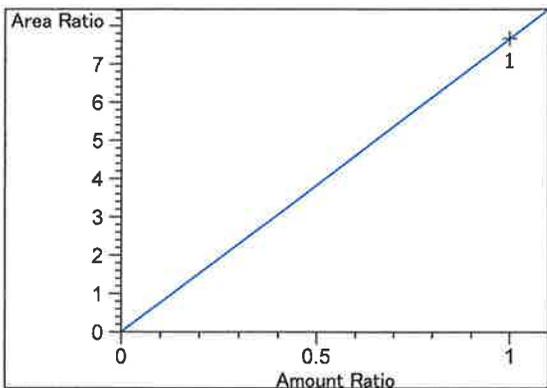   m: 1.00000
     x: Amount Ratio
     y: Area Ratio

n-Propanol at exp. RT: 7.739
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.:   0.00000
Formula: y = mx
        m: 1.00000
        x: Amount Ratio
        y: Area Ratio

Toluene at exp. RT: 11.631
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.:   0.00000
Formula: y = mx
        m: 7.52668
        x: Amount Ratio
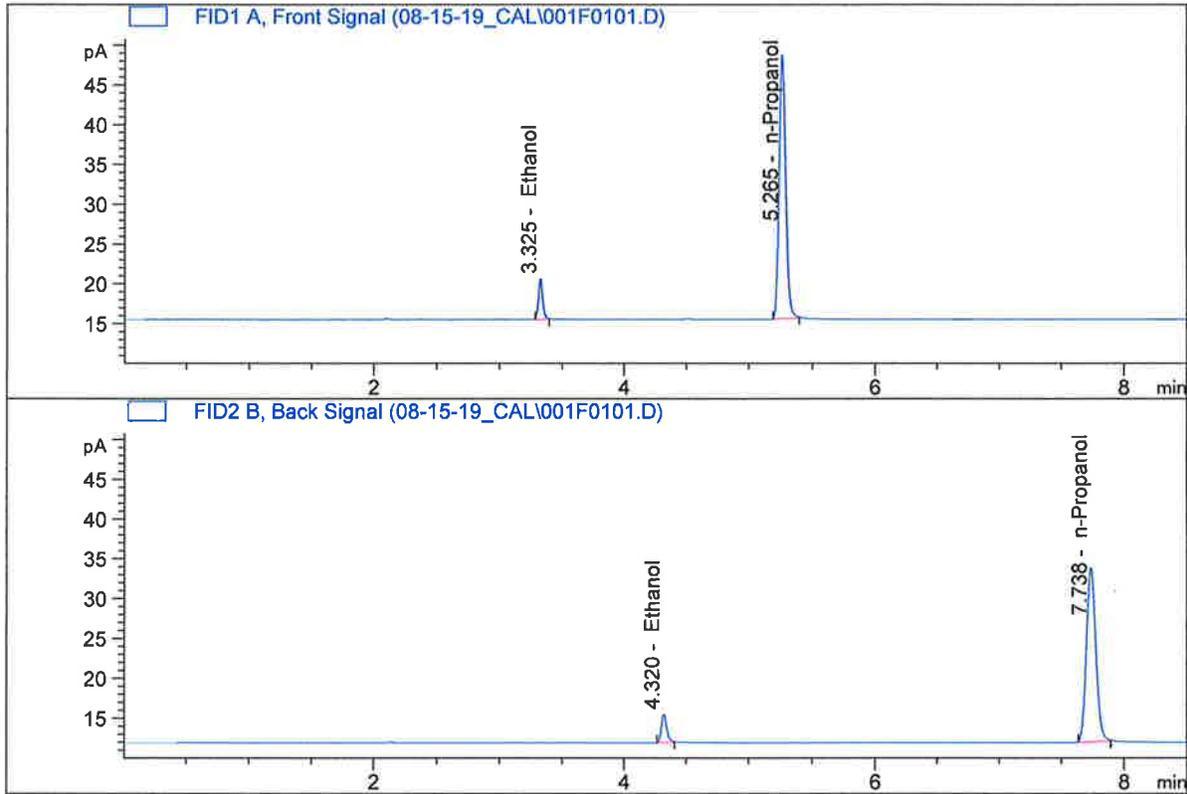   y: Area Ratio

Toluene at exp. RT: 12.229
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.:   0.00000
Formula: y = mx
        m: 7.67043
        x: Amount Ratio
        y: Area Ratio

===

ISP Forensic Services Blood Alcohol Report

```
Sample Name      :   0.050
Laboratory       :   Pocatello
Injection Date   :   Aug 15, 2019
Method           :   ALCOHOL.M
Acq. Instrument:     CN10742043-IT00741010
```


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	11.85549	0.0497	g/100cc
2.	Ethanol	Column 2:	10.74138	0.0474	g/100cc
3.	n-Propanol	Column 1:	119.74349	1.0000	g/100cc
4.	n-Propanol	Column 2:	114.90358	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name   :   0.100
Laboratory   :   Pocatello
Injection Date :   Aug 15, 2019
Method   :   ALCOHOL.M
Acq. Instrument: CN10742043-IT00741010

#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	23.95426	0.0985	g/100cc
2.	Ethanol	Column 2:	21.95187	0.0952	g/100cc
3.	n-Propanol	Column 1:	122.04305	1.0000	g/100cc
4.	n-Propanol	Column 2:	116.78698	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

```
Sample Name       :    0.200
Laboratory        :    Pocatello
Injection Date    :    Aug 15, 2019
Method            :    ALCOHOL.M
Acq. Instrument:       CN10742043-IT00741010
```
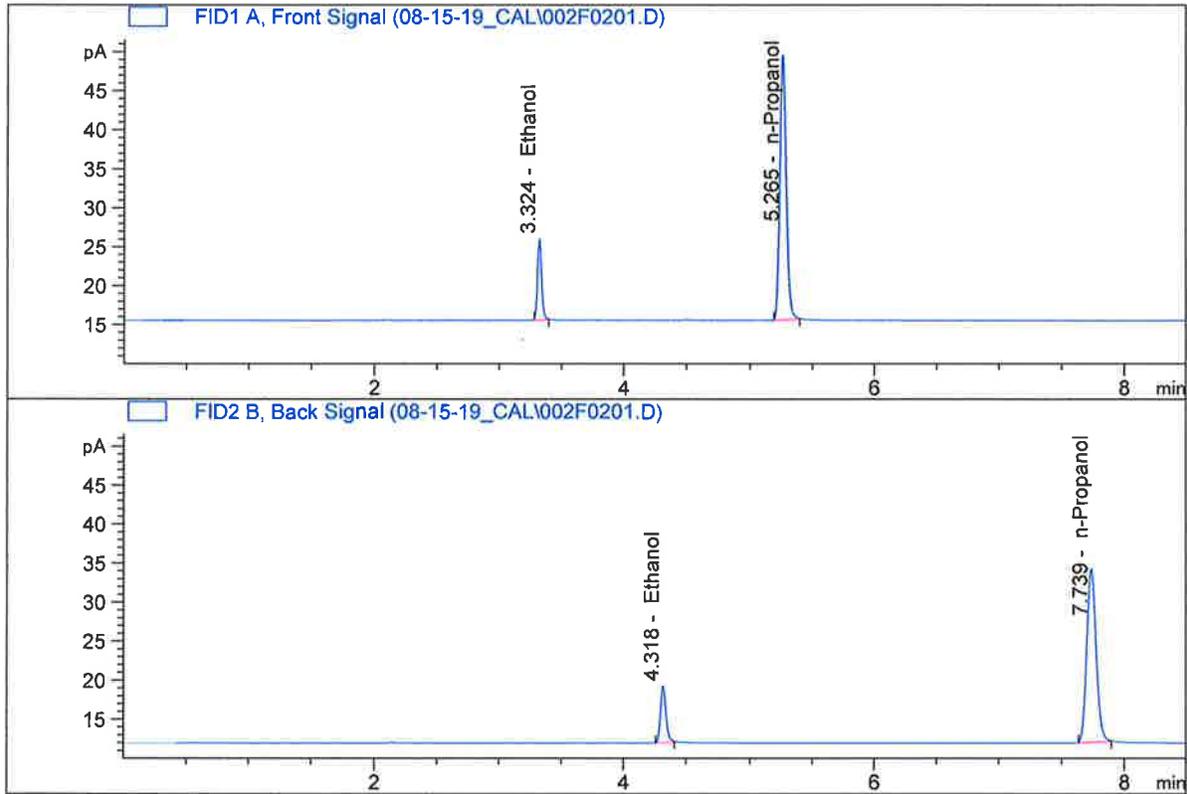

#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	48.88145	0.1993	g/100cc
2.	Ethanol	Column 2:	45.23722	0.1953	g/100cc
3.	n-Propanol	Column 1:	123.09604	1.0000	g/100cc
4.	n-Propanol	Column 2:	117.36192	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

```
Sample Name      :     0.300
Laboratory       :     Pocatello
Injection Date   :     Aug 15, 2019
Method           :     ALCOHOL.M
Acq. Instrument:       CN10742043-IT00741010
```
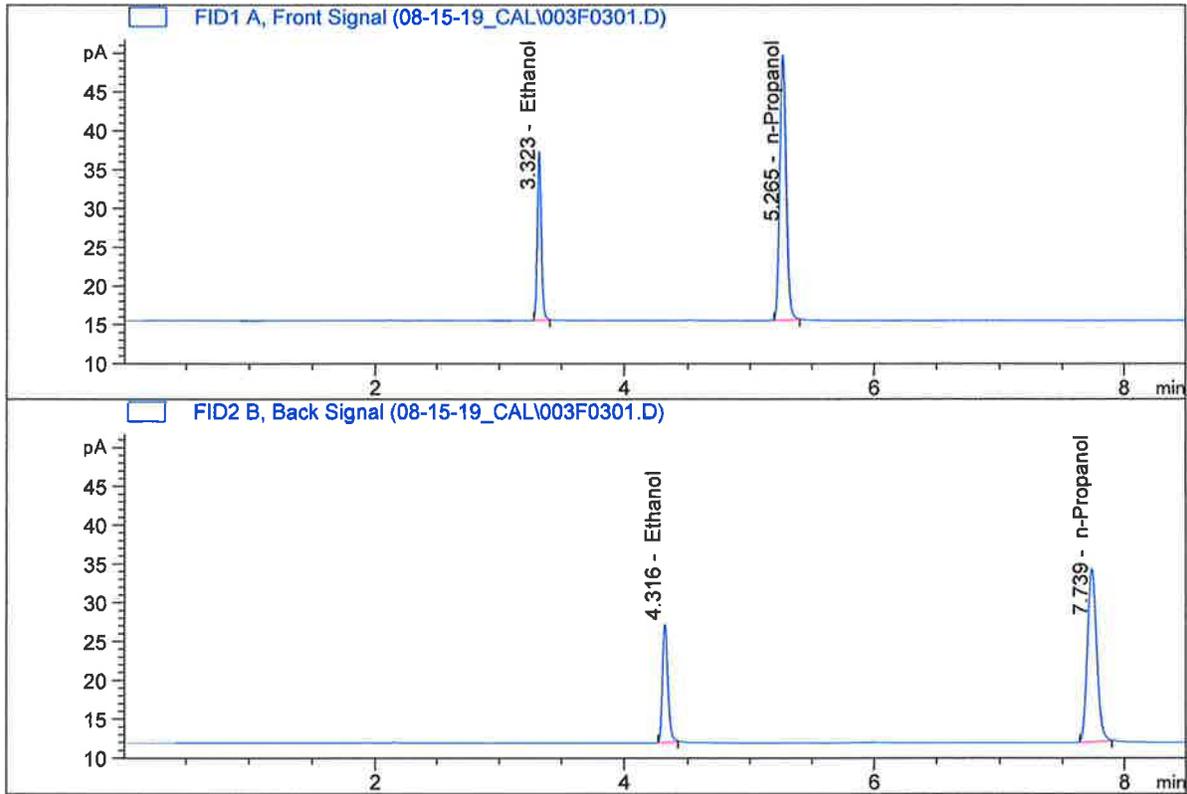

#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	73.52032	0.2991	g/100cc
2.	Ethanol	Column 2:	68.63876	0.2969	g/100cc
3.	n-Propanol	Column 1:	123.35712	1.0000	g/100cc
4.	n-Propanol	Column 2:	117.12289	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name   :   0.500
Laboratory   :   Pocatello
Injection Date :   Aug 15, 2019
Method   :   ALCOHOL.M
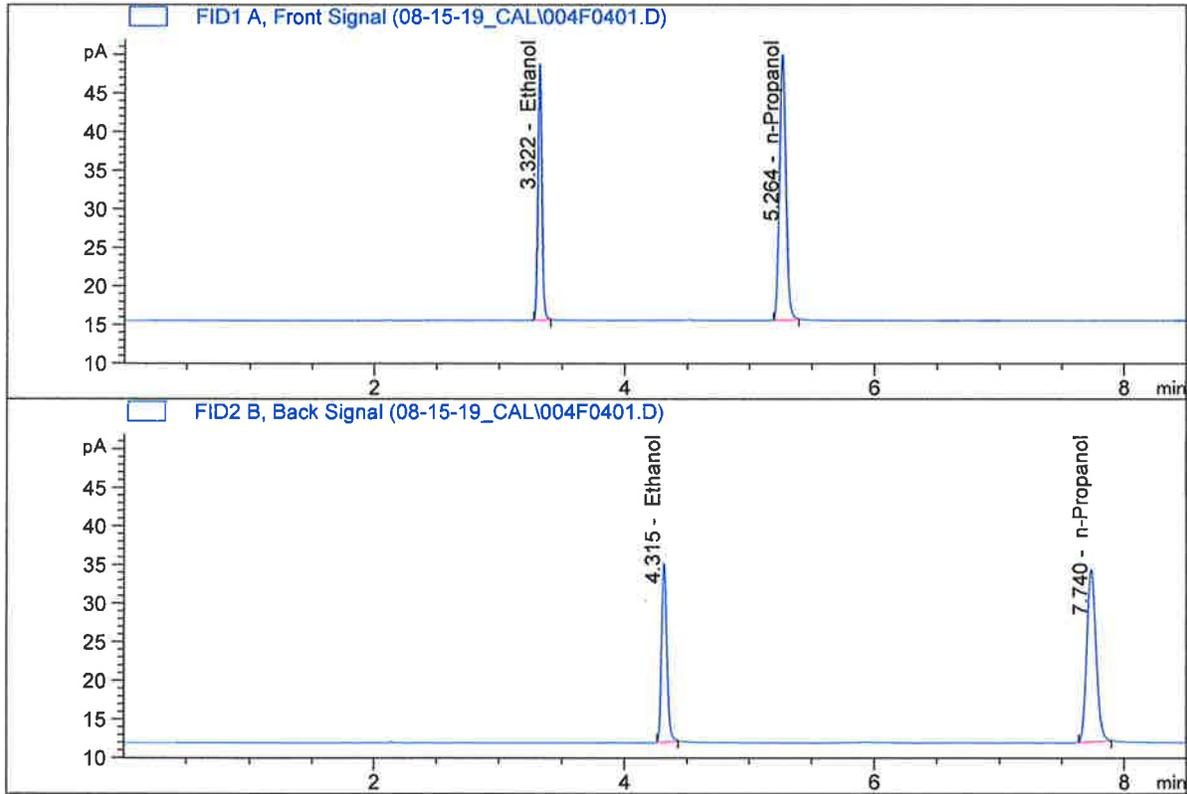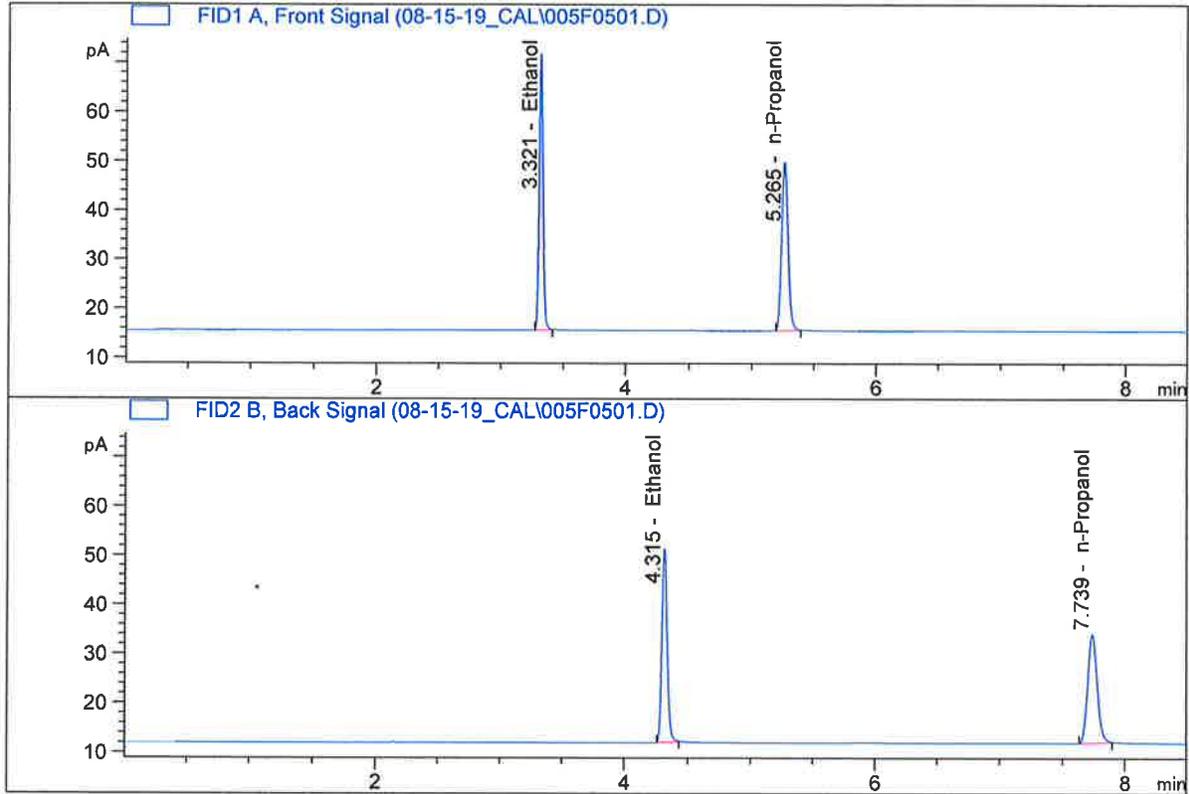Acq. Instrument: CN10742043-IT00741010

#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	122.55466	0.5012	g/100cc
2.	Ethanol	Column 2:	115.52585	0.5050	g/100cc
3.	n-Propanol	Column 1:	122.72312	1.0000	g/100cc
4.	n-Propanol	Column 2:	115.89050	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

```
Sample Name      :    ISTD BLANK-1
Laboratory       :    Pocatello
Injection Date :      Aug 15, 2019
Method           :    ALCOHOL.M
Acq. Instrument:      CN10742043-IT00741010
```
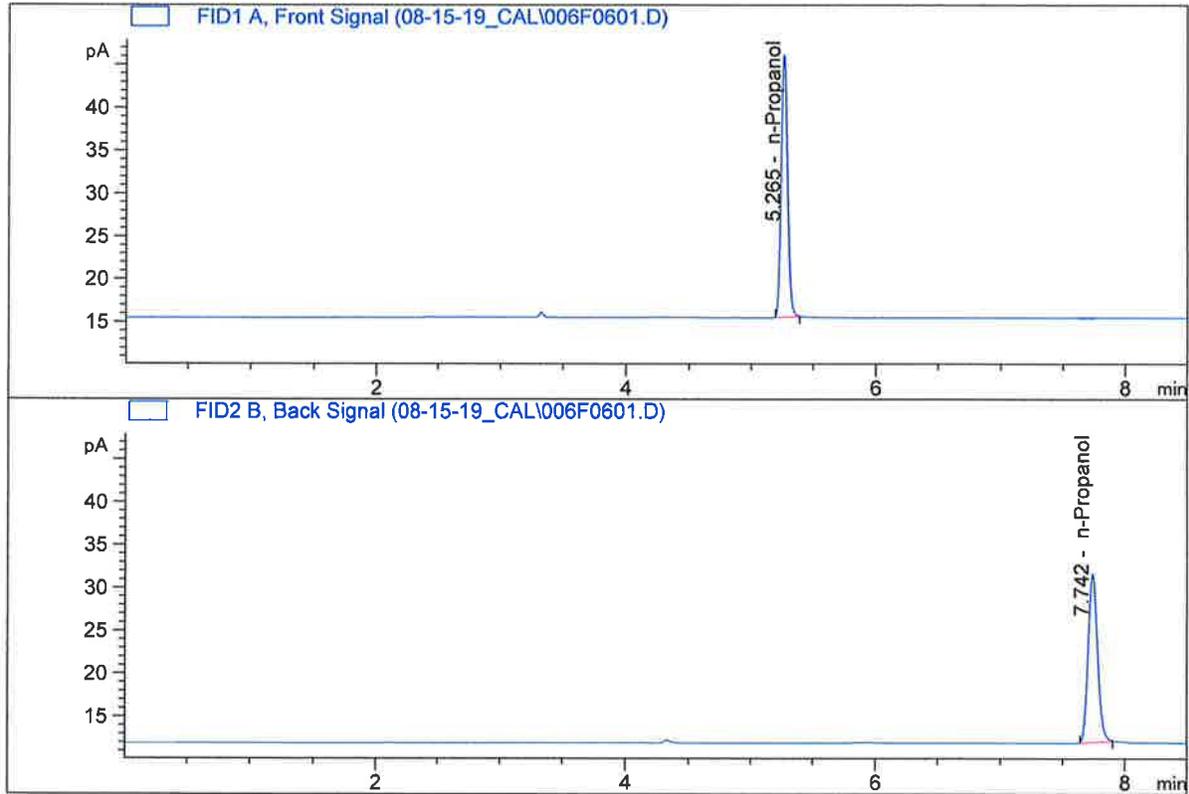

#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	109.49095	1.0000	g/100cc
4.	n-Propanol	Column 2:	103.53757	1.0000	g/100cc

Sample   Summary

Sequence table: C:\Chem32\1\TEMP\AESEQ\QS_15.08.2019_11.52.46\MASTERCAL.S
Data directory path: C:\Chem32\1\Data\08-15-19_CAL
Logbook: C:\Chem32\1\Data\08-15-19_CAL\MASTERCAL.LOG
Sequence start: 8/15/2019 12:06:44 PM
Sequence Operator: SYSTEM
Operator: SYSTEM

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

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

```
Sample Name     :    INTERNAL STD BLK
Laboratory      :    Pocatello
Injection Date  :    Aug 15, 2019
Method          :    ALCOHOL.M
Acq. Instrument:     CN10742043-IT00741010
```
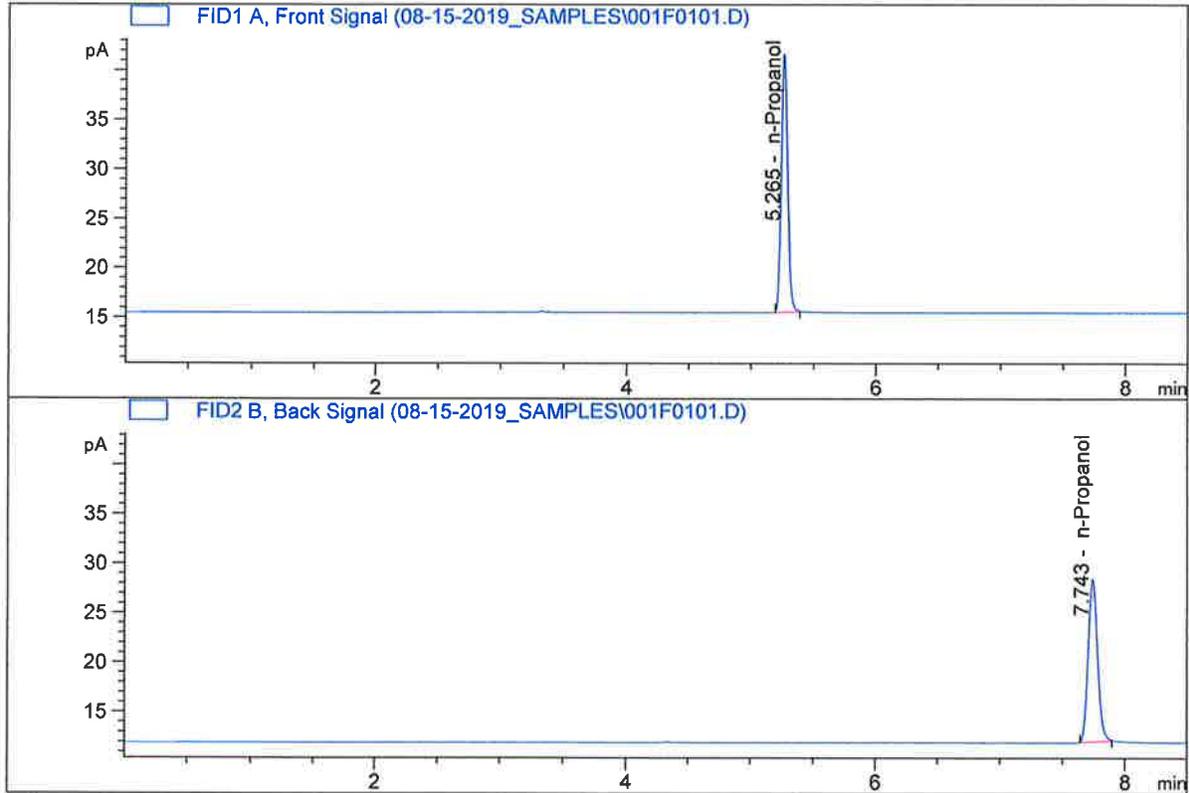

#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	92.92989	1.0000	g/100cc
4.	n-Propanol	Column 2:	86.93929	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

```
Sample Name       :    MULTI-COMP MIX
Laboratory        :    Pocatello
Injection Date    :    Aug 15, 2019
Method            :    ALCOHOL.M
Acq. Instrument:       CN10742043-IT00741010
```

new lot
FN07101701

#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	24.31693	0.0988	g/100cc
2.	Ethanol	Column 2:	21.90099	0.0948	g/100cc
3.	n-Propanol	Column 1:	123.56068	1.0000	g/100cc
4.	n-Propanol	Column 2:	117.07741	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

```
Sample Name      :    INTERNAL STD
Laboratory       :    Pocatello
Injection Date   :    Aug 15, 2019
Method           :    ALCOHOL.M
Acq. Instrument:      CN10742043-IT00741010
```
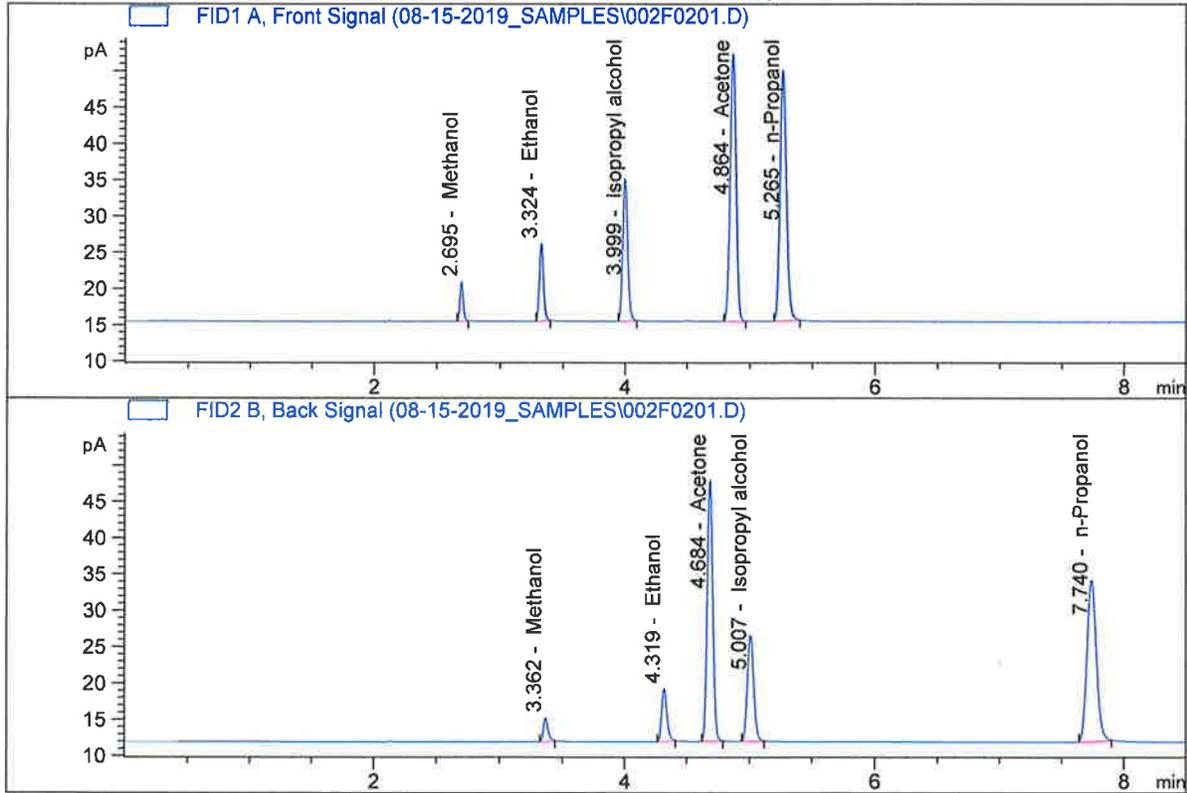

#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	115.54620	1.0000	g/100cc
4.	n-Propanol	Column 2:	108.25530	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-1   **Analysis Date(s): 15 Aug 2019**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0771	0.0729	0.0042	0.0750		
(g/100cc)	0.0773	0.0733	0.0040	0.0753	0.0751	

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: MD96JF1032

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

Overall Mean (g/100cc)	Low	High	5% of Mean
0.075	0.071	0.079	0.004

	Reported Result	
	0.075	

Calibration and control data are stored centrally.

Sample Name   :   QC1-1-A
Laboratory   :   Pocatello
Injection Date :   Aug 15, 2019
Method   :   ALCOHOL.M
Acq. Instrument: CN10742043-IT00741010
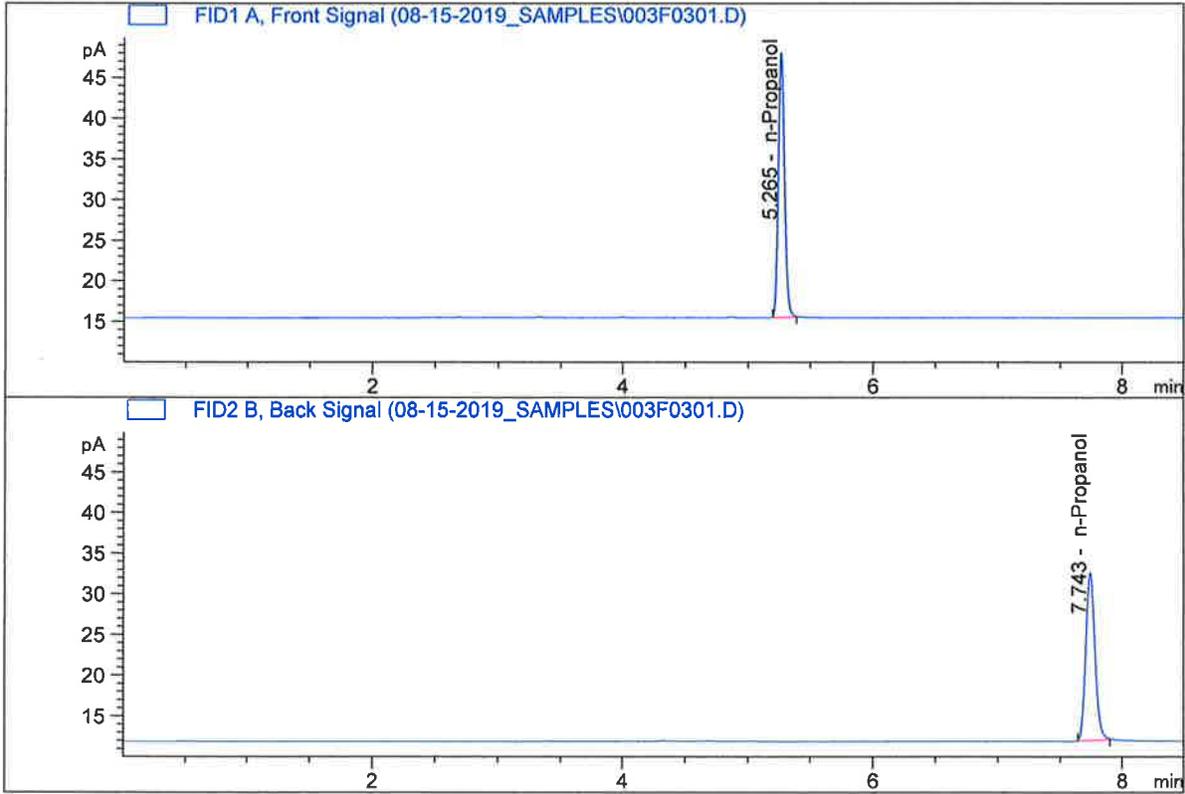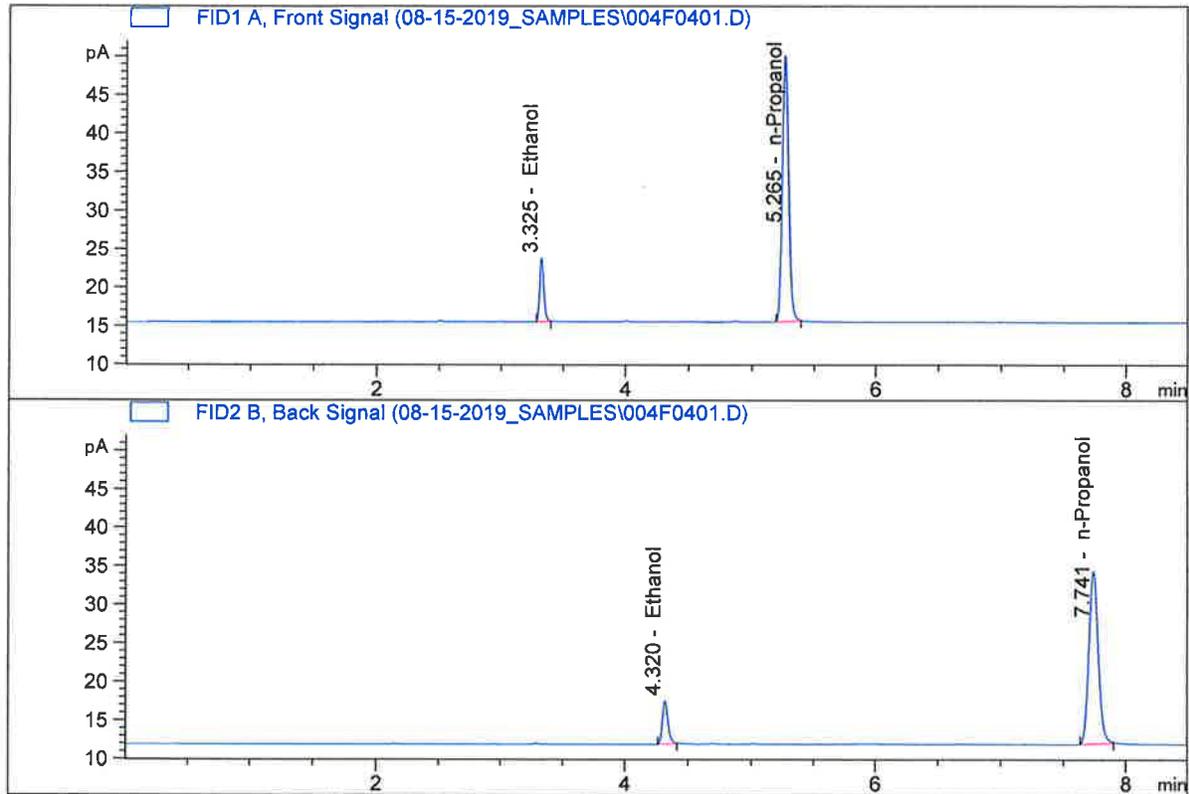

#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.94539	0.0771	g/100cc
2.	Ethanol	Column 2:	16.91820	0.0729	g/100cc
3.	n-Propanol	Column 1:	123.34422	1.0000	g/100cc
4.	n-Propanol	Column 2:	117.51511	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

```
Sample Name      :    QC1-1-B
Laboratory       :    Pocatello
Injection Date   :    Aug 15, 2019
Method           :    ALCOHOL.M
Acq. Instrument:      CN10742043-IT00741010
```


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	19.01009	0.0773	g/100cc
2.	Ethanol	Column 2:	16.97168	0.0733	g/100cc
3.	n-Propanol	Column 1:	123.44075	1.0000	g/100cc
4.	n-Propanol	Column 2:	117.33942	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 08 QA   **Analysis Date(s): 15 Aug 2019**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0788	0.0749	0.0039	0.0768	0.0769	
(g/100cc)	0.0790	0.0751	0.0039	0.0770		

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: MD96JF1032

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

Overall Mean (g/100cc)	Low	High	5% of Mean
0.076	0.072	0.080	0.004

	Reported Result	
	0.076	

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

```
Sample Name      :    08 QA-A
Laboratory       :    Pocatello
Injection Date   :    Aug 15, 2019
Method           :    ALCOHOL.M
Acq. Instrument:      CN10742043-IT00741010
```
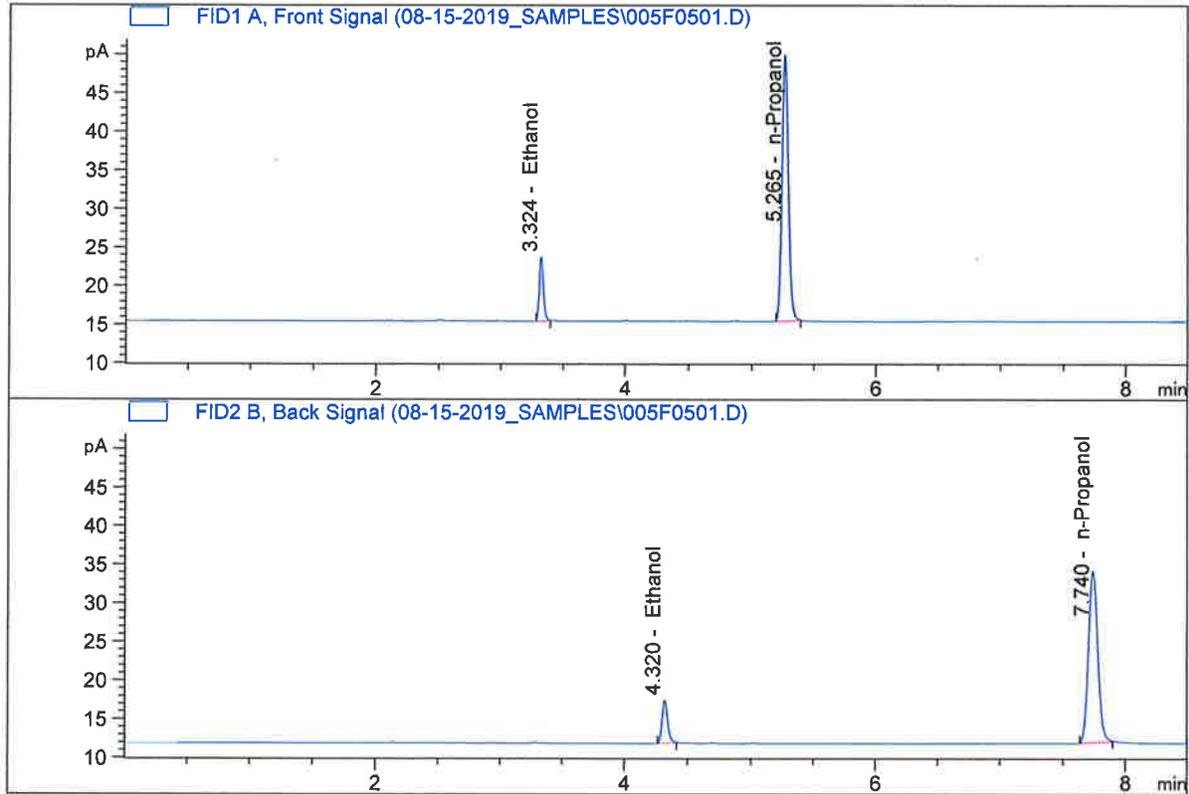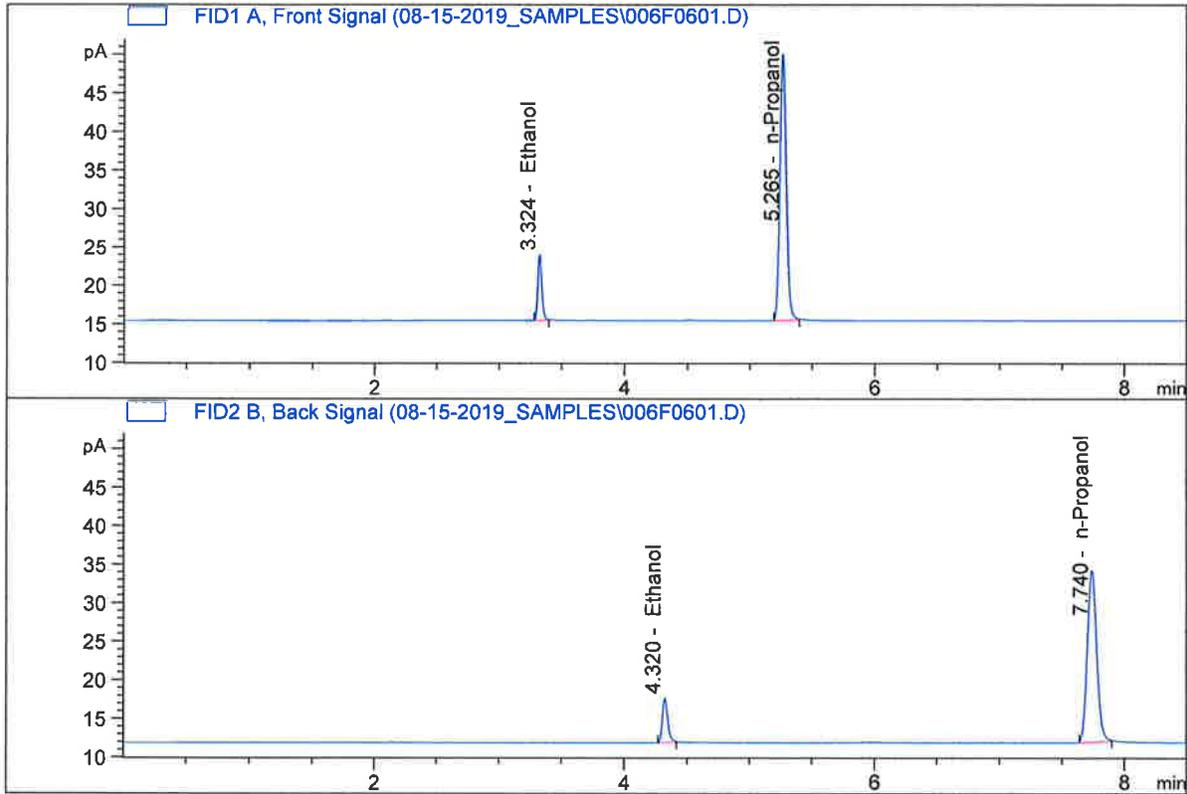

#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	19.38896	0.0788	g/100cc
2.	Ethanol	Column 2:	17.35381	0.0749	g/100cc
3.	n-Propanol	Column 1:	123.49866	1.0000	g/100cc
4.	n-Propanol	Column 2:	117.31403	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

```
Sample Name       :    08 QA-B
Laboratory        :    Pocatello
Injection Date :       Aug 15, 2019
Method            :    ALCOHOL.M
Acq. Instrument:       CN10742043-IT00741010
```


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	19.33538	0.0790	g/100cc
2.	Ethanol	Column 2:	17.33770	0.0751	g/100cc
3.	n-Propanol	Column 1:	122.86588	1.0000	g/100cc
4.	n-Propanol	Column 2:	117.00122	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC2-1   **Analysis Date(s): 15 Aug 2019**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.1975	0.1940	0.0035	0.1957		
(g/100cc)	0.1975	0.1933	0.0042	0.1954	0.1955	

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: MD96JF1032

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

Overall Mean (g/100cc)	Low	High	5% of Mean
0.195	0.185	0.205	0.010

	Reported Result	
	0.195	

Calibration and control data are stored centrally.

Revision: 1

ISP Forensic Services Blood Alcohol Report

```
Sample Name      :   QC2-1-A
Laboratory       :   Pocatello
Injection Date   :   Aug 15, 2019
Method           :   ALCOHOL.M
Acq. Instrument:     CN10742043-IT00741010
```
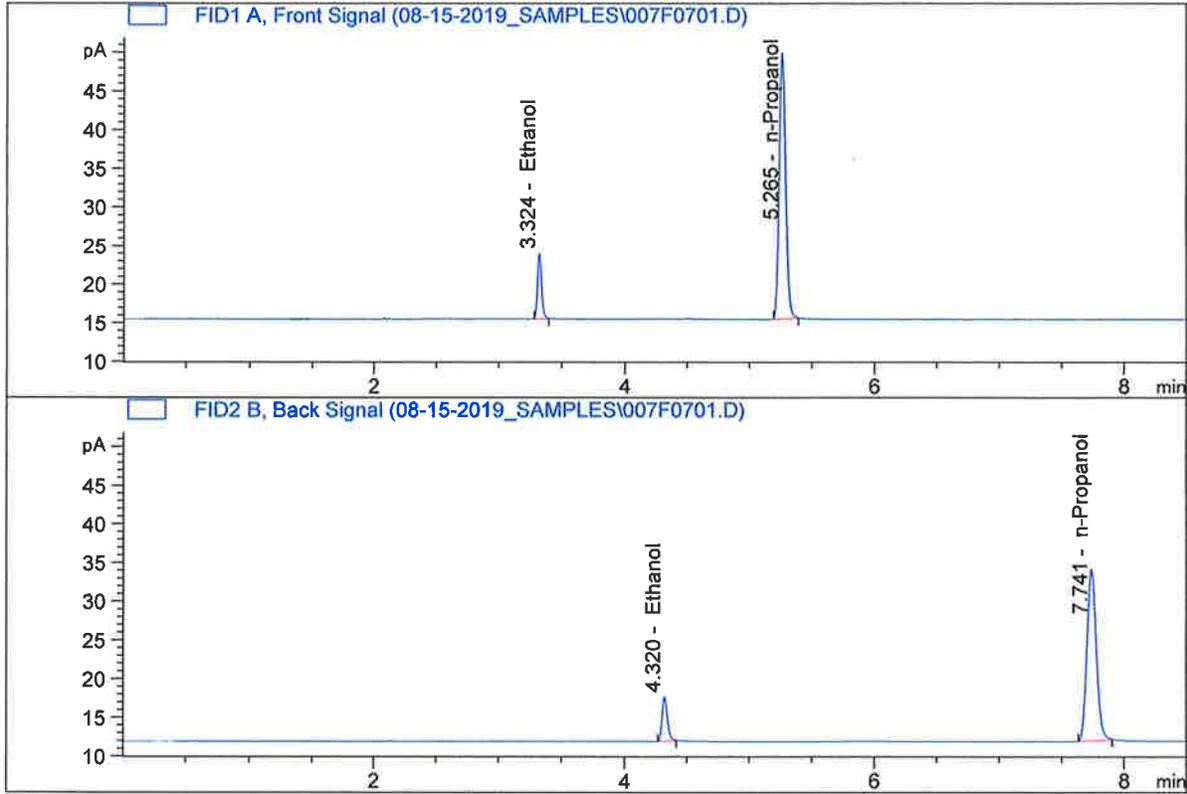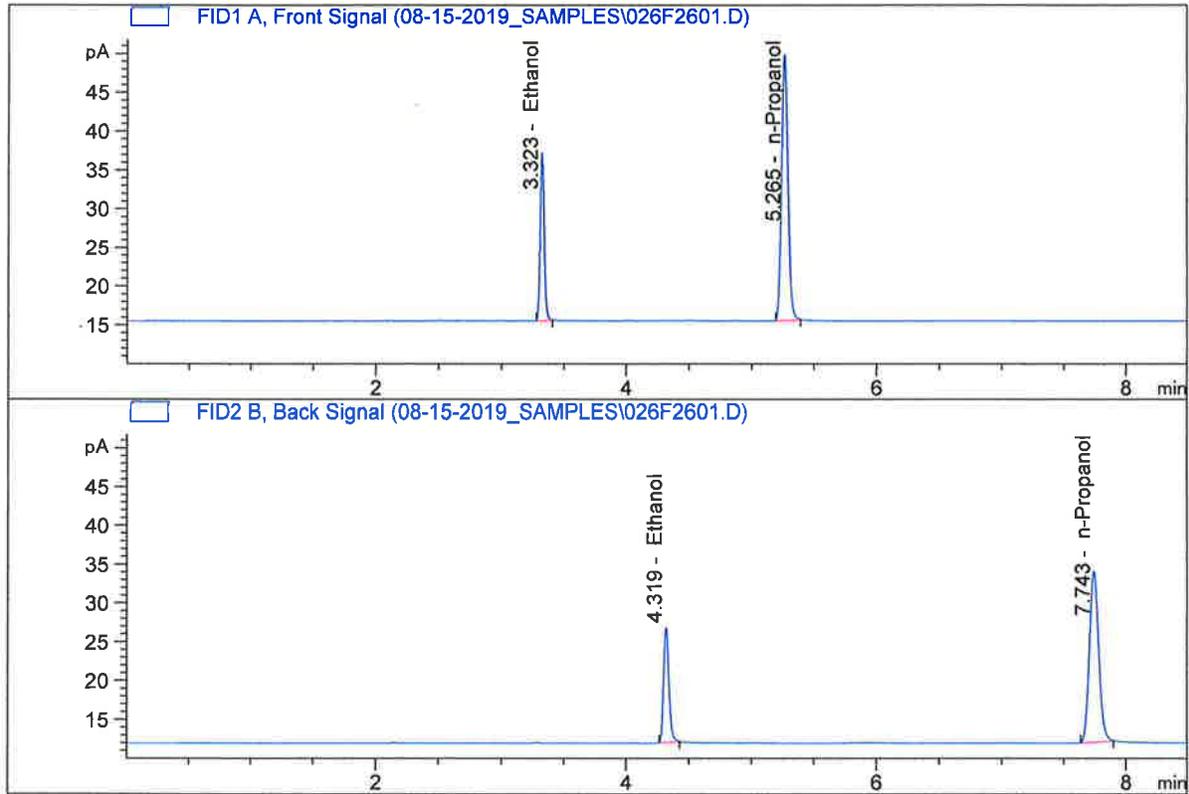

#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	48.16288	0.1975	g/100cc
2.	Ethanol	Column 2:	44.33573	0.1940	g/100cc
3.	n-Propanol	Column 1:	122.38567	1.0000	g/100cc
4.	n-Propanol	Column 2:	115.75668	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

```
Sample Name      :   QC2-1-B
Laboratory       :   Pocatello
Injection Date   :   Aug 15, 2019
Method           :   ALCOHOL.M
Acq. Instrument:     CN10742043-IT00741010
```
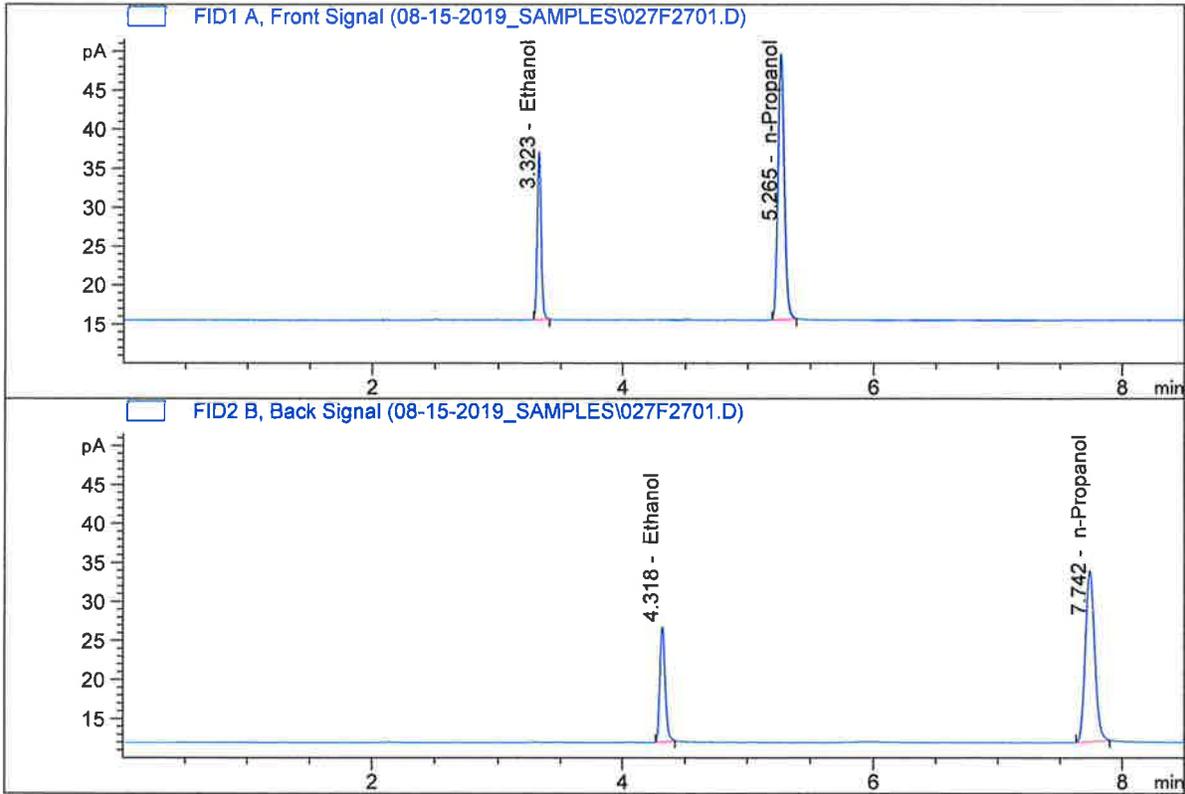

#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	47.95206	0.1975	g/100cc
2.	Ethanol	Column 2:	44.08593	0.1933	g/100cc
3.	n-Propanol	Column 1:	121.83088	1.0000	g/100cc
4.	n-Propanol	Column 2:	115.56426	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-2 **Analysis Date(s): 15 Aug 2019**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0796	0.0768	0.0028	0.0782		
(g/100cc)	0.0786	0.0754	0.0032	0.0770	0.0776	

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: MD96JF1032

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.

Revision: 1

ISP Forensic Services Blood Alcohol Report

Sample Name   :   QC1-2-A
Laboratory   :   Pocatello
Injection Date   :   Aug 15, 2019
Method   :   ALCOHOL.M
Acq. Instrument: CN10742043-IT00741010
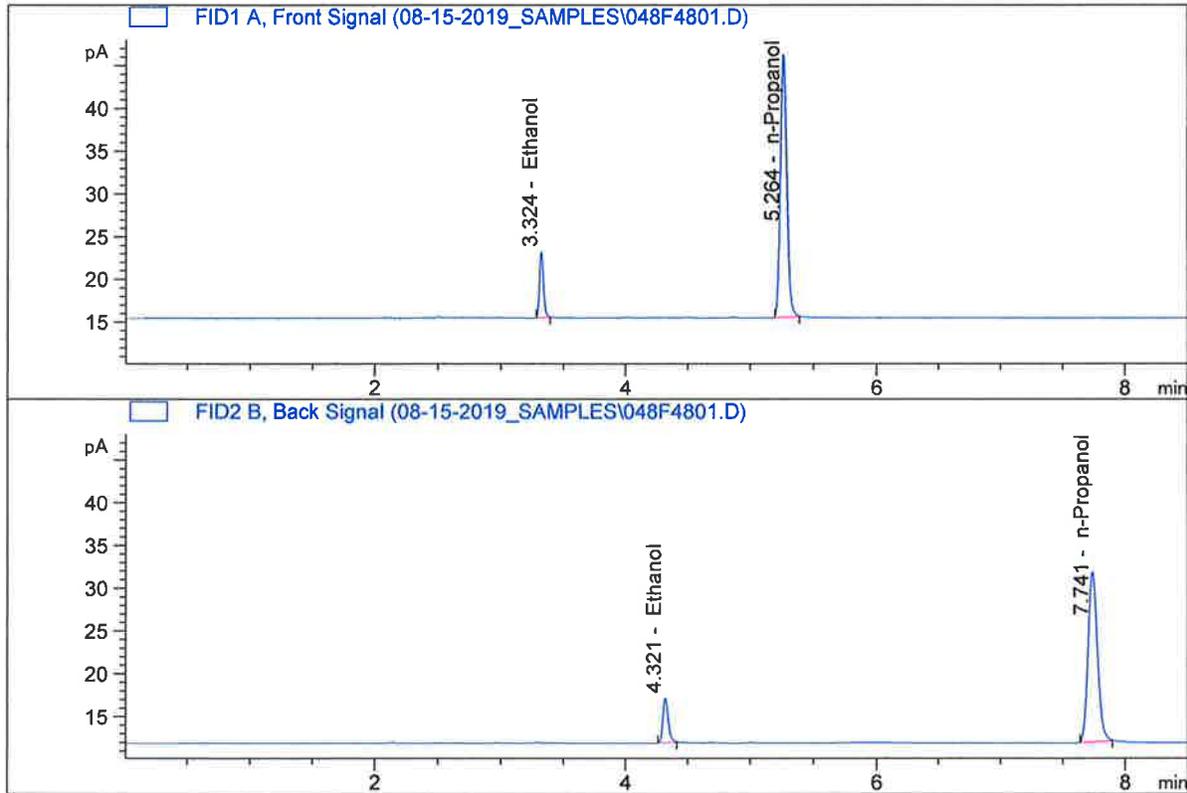
#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	17.48219	0.0796	g/100cc
2.	Ethanol	Column 2:	15.87682	0.0768	g/100cc
3.	n-Propanol	Column 1:	110.15575	1.0000	g/100cc
4.	n-Propanol	Column 2:	104.77895	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

```
Sample Name      :   QC1-2-B
Laboratory       :   Pocatello
Injection Date   :   Aug 15, 2019
Method           :   ALCOHOL.M
Acq. Instrument:     CN10742043-IT00741010
```


FID1 A, Front Signal (08-15-2019_SAMPLES\049F4901.D)

FID2 B, Back Signal (08-15-2019_SAMPLES\049F4901.D)

#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	17.50234	0.0786	g/100cc
2.	Ethanol	Column 2:	15.79574	0.0754	g/100cc
3.	n-Propanol	Column 1:	111.75876	1.0000	g/100cc
4.	n-Propanol	Column 2:	106.17447	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

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

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.2035	0.2022	0.0013	0.2028	0.2013	
(g/100cc)	0.2003	0.1995	0.0008	0.1999		

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: MD96JF1032

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.

Revision: 1
Issue Date: 01/04/2019

ISP Forensic Services Blood Alcohol Report

```
Sample Name      :   QC2-2-A
Laboratory       :   Pocatello
Injection Date   :   Aug 15, 2019
Method           :   ALCOHOL.M
Acq. Instrument:     CN10742043-IT00741010
```
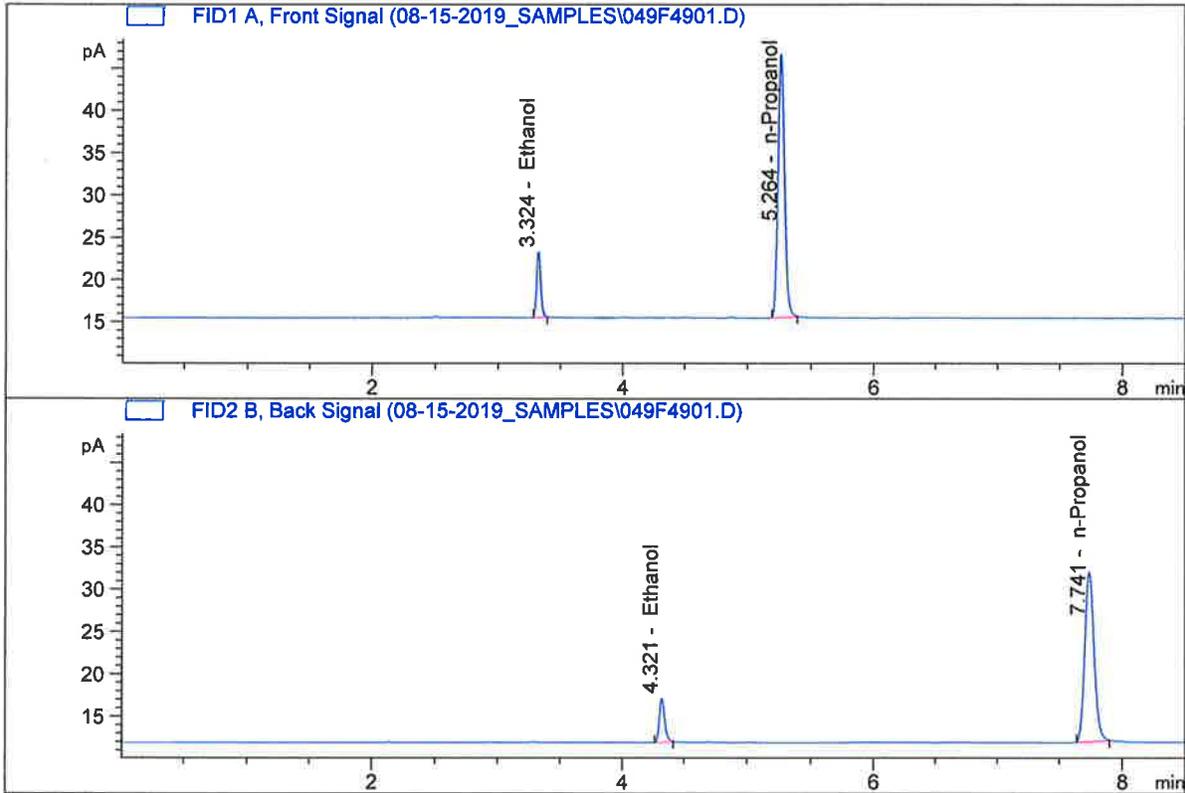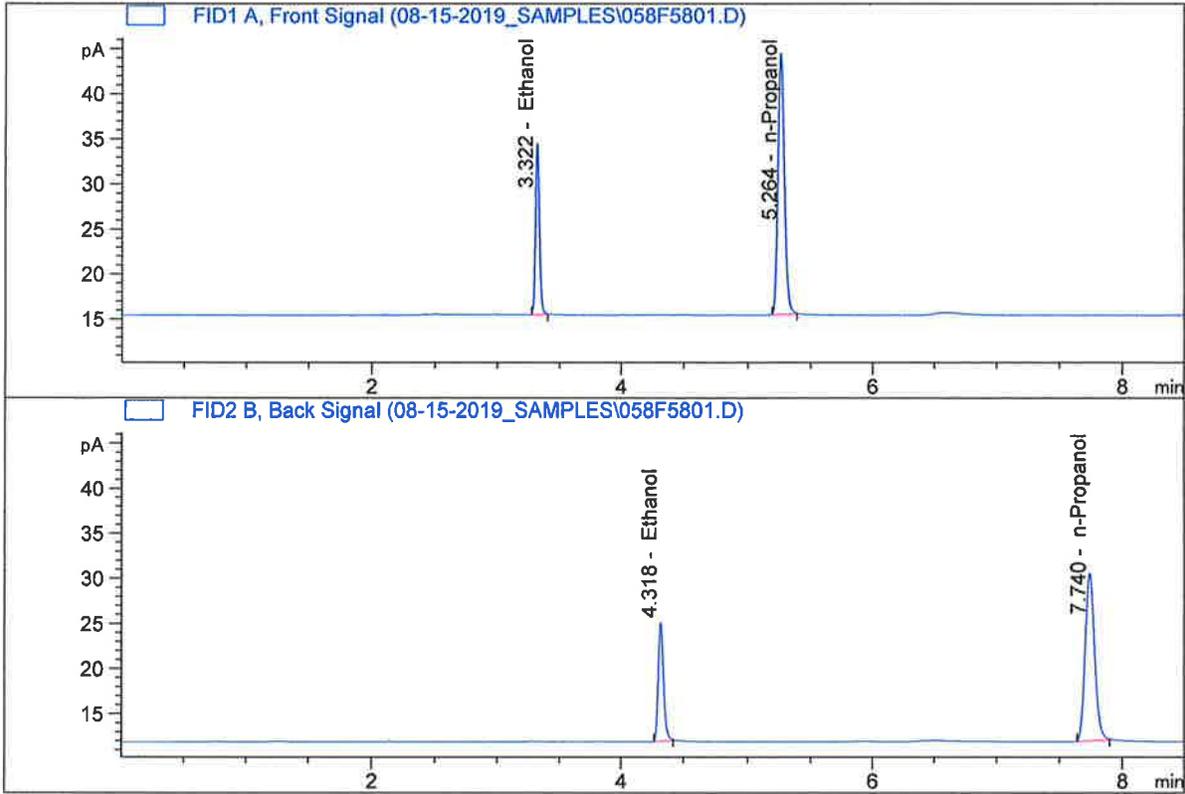

#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	42.29582	0.2035	g/100cc
2.	Ethanol	Column 2:	39.21550	0.2022	g/100cc
3.	n-Propanol	Column 1:	104.32117	1.0000	g/100cc
4.	n-Propanol	Column 2:	98.25844	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name   :   QC2-2-B
Laboratory   :   Pocatello
Injection Date :   Aug 16, 2019
Method   :   ALCOHOL.M
Acq. Instrument: CN10742043-IT00741010

#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	44.82256	0.2003	g/100cc
2.	Ethanol	Column 2:	41.73601	0.1995	g/100cc
3.	n-Propanol	Column 1:	112.29722	1.0000	g/100cc
4.	n-Propanol	Column 2:	105.98115	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

```
Sample Name       :    INT STD BLK
Laboratory        :    Pocatello
Injection Date    :    Aug 16, 2019
Method            :    ALCOHOL.M
Acq. Instrument:       CN10742043-IT00741010
```
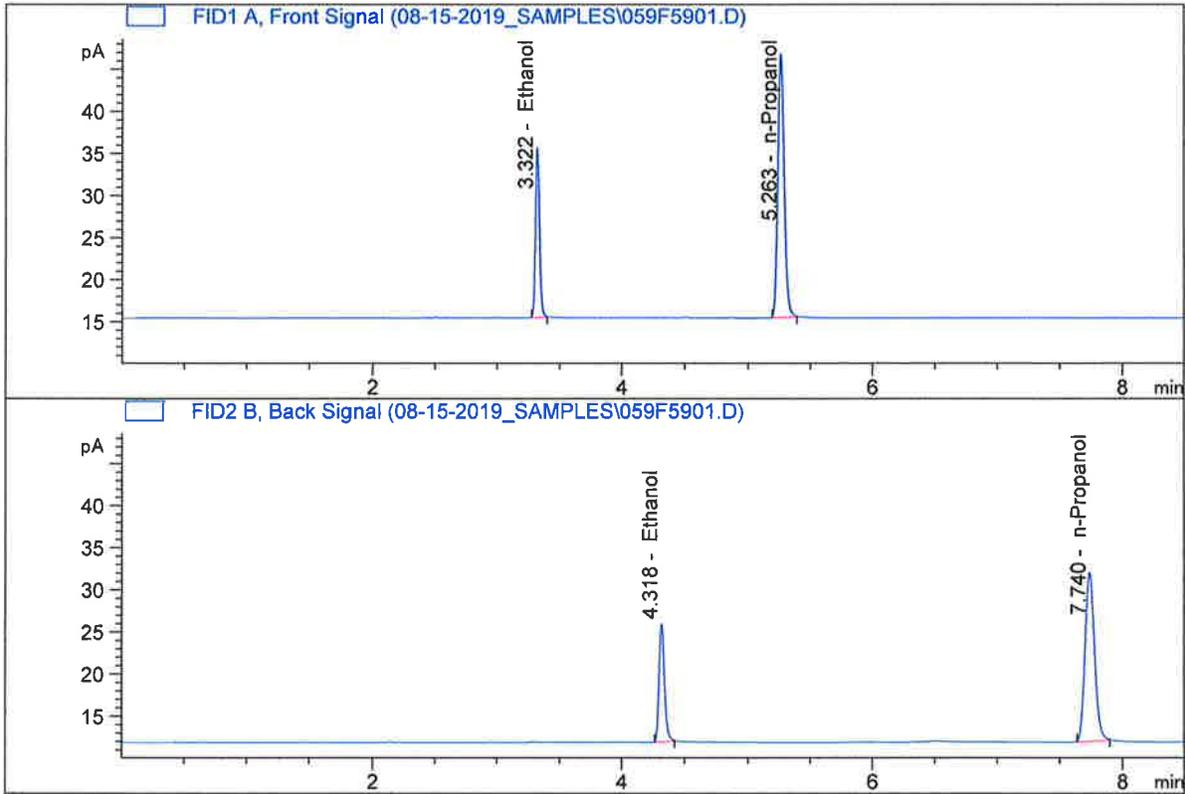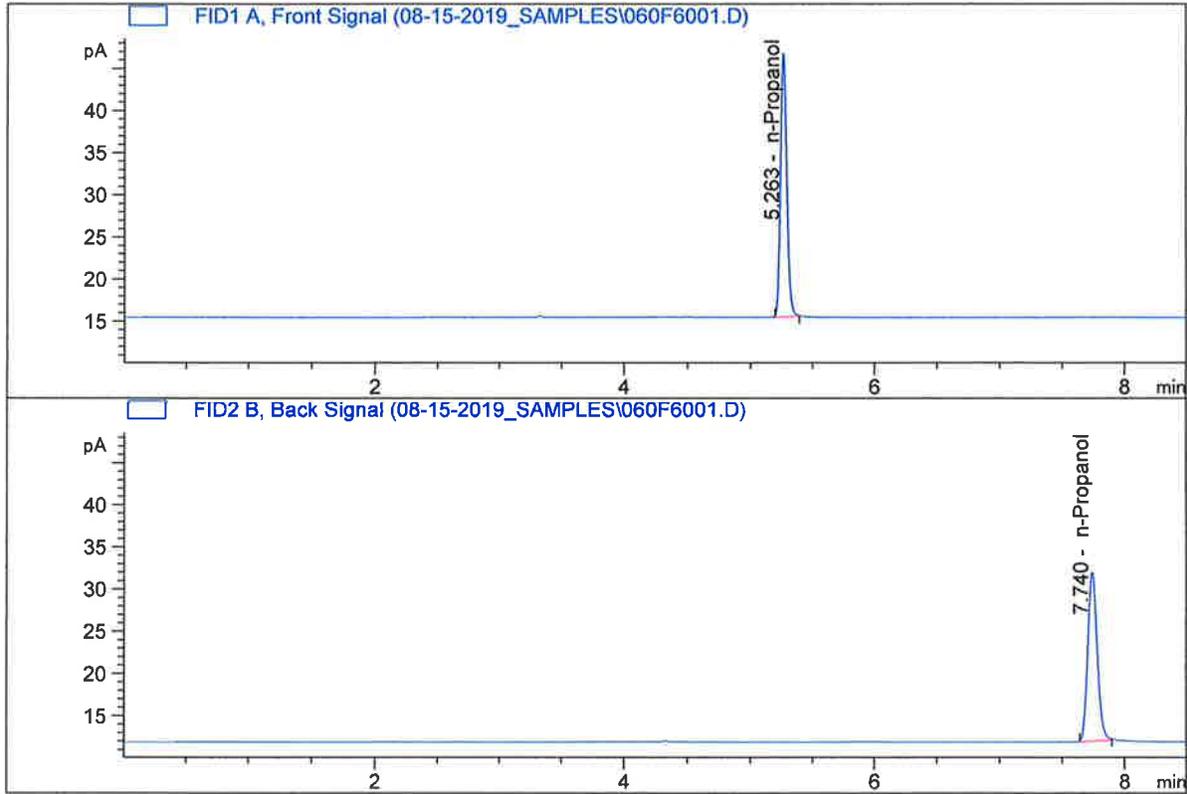

#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	111.74738	1.0000	g/100cc
4.	n-Propanol	Column 2:	105.54068	1.0000	g/100cc

Sequence File C:\Chem32\1\TEMP\AESEQ\QS_15.08.2019_01.25.58\8-15-19SAMPLES.S

Sample Summary

```
Sequence table:       C:\Chem32\1\TEMP\AESEQ\QS_15.08.2019_01.25.58\8-15-19SAMPLES.S
Data directory path:  C:\Chem32\1\Data\08-15-2019_SAMPLES
Logbook:              C:\Chem32\1\Data\08-15-2019_SAMPLES\8-15-19SAMPLES.LOG
Sequence start:       8/15/2019 1:39:47 PM
Sequence Operator:    SYSTEM
Operator:             SYSTEM

Method file name:     C:\CHEM32\1\METHODS\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	MULTI-COMP MIX	–	1.0000	002F0201.D		10
3	3	1	INTERNAL STD	–	1.0000	003F0301.D		2
4	4	1	QC1-1-A	–	1.0000	004F0401.D		4
5	5	1	QC1-1-B	–	1.0000	005F0501.D		4
6	6	1	08 QA-A	–	1.0000	006F0601.D		4
7	7	1	08 QA-B	–	1.0000	007F0701.D		4
8	8	1	P2019-2374-2-A	–	1.0000	008F0801.D		6
9	9	1	P2019-2374-2-B	–	1.0000	009F0901.D		6
10	10	1	P2019-2379-1-A	–	1.0000	010F1001.D		4
11	11	1	P2019-2379-1-B	–	1.0000	011F1101.D		4
12	12	1	P2019-2380-1-A	–	1.0000	012F1201.D		4
13	13	1	P2019-2380-1-B	–	1.0000	013F1301.D		4
14	14	1	P2019-2381-1-A	–	1.0000	014F1401.D		5
15	15	1	P2019-2381-1-B	–	1.0000	015F1501.D		5
16	16	1	P2019-2393-1-A	–	1.0000	016F1601.D		6
17	17	1	P2019-2393-1-B	–	1.0000	017F1701.D		6
18	18	1	P2019-2394-1-A	–	1.0000	018F1801.D		6
19	19	1	P2019-2394-1-B	–	1.0000	019F1901.D		6
20	20	1	P2019-2410-1-A	–	1.0000	020F2001.D		5
21	21	1	P2019-2410-1-B	–	1.0000	021F2101.D		6
22	22	1	P2019-2435-1-A	–	1.0000	022F2201.D		4
23	23	1	P2019-2435-1-B	–	1.0000	023F2301.D		4
24	24	1	P2019-2442-1-A	–	1.0000	024F2401.D		6
25	25	1	P2019-2442-1-B	–	1.0000	025F2501.D		6
26	26	1	QC2-1-A	–	1.0000	026F2601.D		4
27	27	1	QC2-1-B	–	1.0000	027F2701.D		4
28	28	1	P2019-2443-1-A	–	1.0000	028F2801.D		4
29	29	1	P2019-2443-1-B	–	1.0000	029F2901.D		3
30	30	1	P2019-2448-1-A	–	1.0000	030F3001.D		4
31	31	1	P2019-2448-1-B	–	1.0000	031F3101.D		5
32	32	1	P2019-2449-1-A	–	1.0000	032F3201.D		4
33	33	1	P2019-2449-1-B	–	1.0000	033F3301.D		4
34	34	1	P2019-2460-1-A	–	1.0000	034F3401.D		4
35	35	1	P2019-2460-1-B	–	1.0000	035F3501.D		4
36	36	1	P2019-2475-1-A	–	1.0000	036F3601.D		4
37	37	1	P2019-2475-1-B	–	1.0000	037F3701.D		4
38	38	1	P2019-2481-1-A	–	1.0000	038F3801.D		6
39	39	1	P2019-2481-1-B	–	1.0000	039F3901.D		6
40	40	1	P2019-2489-1-A	–	1.0000	040F4001.D		6
41	41	1	P2019-2489-1-B	–	1.0000	041F4101.D		6
42	42	1	P2019-2491-1-A	–	1.0000	042F4201.D		2
43	43	1	P2019-2491-1-B	–	1.0000	043F4301.D		2
44	44	1	P2019-2507-3-A	–	1.0000	044F4401.D		2
45	45	1	P2019-2507-3-B	–	1.0000	045F4501.D		2
46	46	1	P2019-2522-1-A	–	1.0000	046F4601.D		4

Run #	Location	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal	# Cmp
47	47	1	P2019-2522-1-B	−	1.0000	047F4701.D		4
48	48	1	QC1-2-A	−	1.0000	048F4801.D		4
49	49	1	QC1-2-B	−	1.0000	049F4901.D		4
50	50	1	P2019-2524-1-A	−	1.0000	050F5001.D		4
51	51	1	P2019-2524-1-B	−	1.0000	051F5101.D		6
52	52	1	P2019-1918-3_1-A	−	1.0000	052F5201.D		4
53	53	1	P2019-1918-3_1-B	−	1.0000	053F5301.D		4
54	54	1	P2019-1918-3_2-A	−	1.0000	054F5401.D		4
55	55	1	P2019-1918-3_2-B	−	1.0000	055F5501.D		4
56	56	1	P2019-1918-3_3-A	−	1.0000	056F5601.D		4
57	57	1	P2019-1918-3_3-B	−	1.0000	057F5701.D		4
58	58	1	QC2-2-A	−	1.0000	058F5801.D		4
59	59	1	QC2-2-B	−	1.0000	059F5901.D		4
60	60	1	INT STD BLK	−	1.0000	060F6001.D		2

Idaho State Police
Forensic Services
Volatiles Discipline

Request for Departure from an Analytical Method

Date of Request
8/14/19

Person Making Request and Title
Rachel Cutler, Pocatello Lab Manager

Analytical Method
Volatiles method 4.0
4.2.3.8 Dilute alcohol beverages and unknown solutions as necessary. The sample must be diluted for the value to fall within the upper limits of the calibration curve.
4.2.3.8.1 Dilutions must be carried out using the autodilutor.
4.3.7.1 The ethanol values obtained from column 1 and 2 must agree within 0.0100g/100cc.
4.3.8.1 The mean value for replicate analysis must agree as described in table.
4.4.2.2 Report values <0.020g/100cc, but above 0.000 as "below reportable limit."
4.4.5 Reporting of Alcohol Beverages

Request

Request deviation for any column precision or replicate precision requirements since cases are alcohol beverage samples and screening indicates they are above 40% ethanol.

As the autodilutor must be used to perform the serial dilutions, a maximum of an 81fold dilution is possible to fall within our uncertainty of measurement reporting guidelines. Some samples will still not be dilute enough after an 81fold dilution.

There isn't anything currently in the method on how to report "above the limit of detection" cases such as this. Requesting permission to report "Above reportable limit. Sample is >40.5% ethanol".
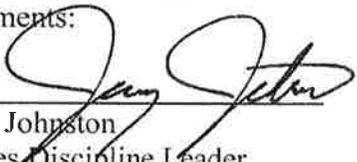
Discipline Leader Review

☒ Departure approved   MINOR DEVIATION
  Comments:
☐ Departure Not Approved
  Comments:

_____   _____8-14-19_____
Jeremy Johnston   DATE
Volatiles Discipline Leader