10/15/2019

Worklist: 3756

LAB CASE	ITEM	ITEM TYPE	DESCRIPTION
C2019-1752	1	BCK	Alcohol Analysis
C2019-1752	2	BLOOD	Alcohol Analysis
C2019-1752	3	BLOOD	Alcohol Analysis
C2019-1752	4	BLOOD	Alcohol Analysis
C2019-1801	1	BCK	Alcohol Analysis
C2019-1829	1	BCK	Alcohol Analysis
C2019-1840	1	BCK	Alcohol Analysis
C2019-1844	1	BCK	Alcohol Analysis
C2019-1863	1	BCK	Alcohol Analysis
C2019-1889	1	AVK	Alcohol Analysis
C2019-1934	1	BCK	Alcohol Analysis
C2019-1957	1	BCK	Alcohol Analysis
C2019-1968	1	BCK	Alcohol Analysis
C2019-1970	2	BCK	Alcohol Analysis
C2019-1973	1	AVK	Alcohol Analysis
C2019-1976	1	BCK	Alcohol Analysis
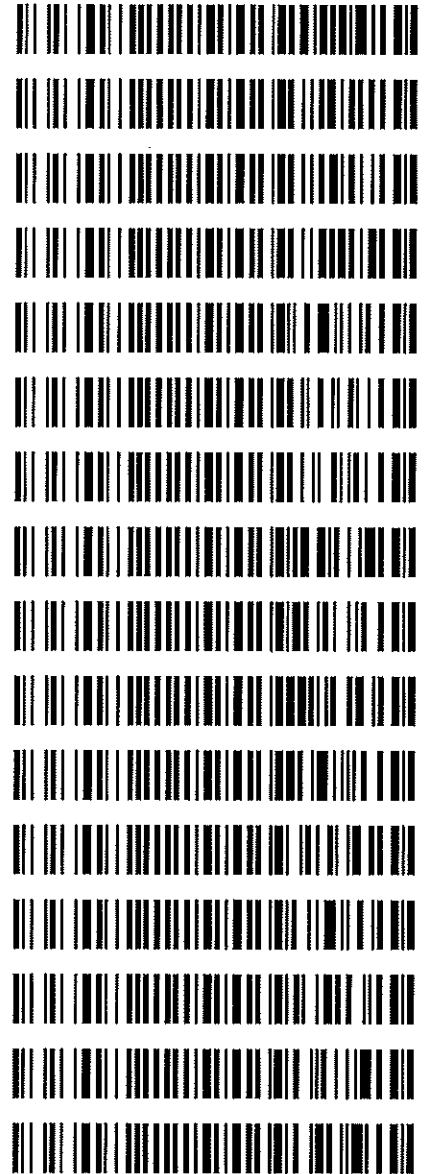
Quantitative Analysis for Ethanol & Qualitative Analysis for Other Volatiles

Device: Hamilton MICROLAB 600A Liquid Processor/Dilutor   Serial Number: ML600HC11379

Analytical Method(s): 1.0

Volatiles Quality Assurance Controls

Run Date(s): 10/15/19

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
Level 2	Mar-22	1803028	0.2035	0.1832-0.2238	0.1960 g/100cc 0.1988 g/100cc g/100cc

Multi-Component mixture:					
Curve Fit:	Sep-20	Column 1	Lot #	FN06041502	OK
		0.99999	Column2		0.99999

Ethanol Calibration Reference Material

Calibrator level	Target Value	Acceptable Range	Column 1	Column 2	Precision	Mean
50	0.050	0.045 - 0.055	0.0498	0.0495	0.0003	0.0496
100	0.100	0.090 - 0.110	0.0995	0.0984	0.0011	0.0989
200	0.200	0.180 - 0.220	0.1986	0.1983	0.0003	0.1984
300	0.300	0.270 - 0.330	0.2990	0.2995	0.0005	0.2992
500	0.500	0.450 - 0.550	0.5013	0.5013	0.0000	0.5013

Aqueous Controls

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

Sequence File C:\Chem32\1\TEMP\AESEQ\QS_15.10.2019_04.05.54\10-15-2019.S

<p style="text-align:center">S a m p l e   S u m m a r y</p>

```
Sequence table:       C:\Chem32\1\TEMP\AESEQ\QS_15.10.2019_04.05.54\10-15-2019.S
Data directory path:  C:\Chem32\1\Data\10-15-2019-JJ
Logbook:              C:\Chem32\1\Data\10-15-2019-JJ\10-15-2019.LOG
Sequence start:       10/15/2019 4:19:40 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	water-1	-	1.0000	001F0101.D		0
2	2	1	VOL MIX FN-06041	-	1.0000	002F0201.D		10
3	3	1	ISTD BLANK-1	-	1.0000	003F0301.D		2
4	4	1	QC-2(1)-A	-	1.0000	004F0401.D		4
5	5	1	QC-2(1)-B	-	1.0000	005F0501.D		4
6	6	1	0.08 FN04171701-	-	1.0000	006F0601.D		4
7	7	1	0.08 FN04171701-	-	1.0000	007F0701.D		4
8	8	1	19106-63-1-A	-	1.0000	008F0801.D		4
9	9	1	19106-63-1-B	-	1.0000	009F0901.D		4
10	10	1	19106-116-1-A	-	1.0000	010F1001.D		4
11	11	1	19106-116-1-B	-	1.0000	011F1101.D		4
12	12	1	C2019-1752-1-A	-	1.0000	012F1201.D		4
13	13	1	C2019-1752-1-B	-	1.0000	013F1301.D		4
14	14	1	C2019-1752-2-A	-	1.0000	014F1401.D		4
15	15	1	C2019-1752-2-B	-	1.0000	015F1501.D		4
16	16	1	C2019-1752-3-A	-	1.0000	016F1601.D		4
17	17	1	C2019-1752-3-B	-	1.0000	017F1701.D		4
18	18	1	C2019-1752-4-A	-	1.0000	018F1801.D		4
19	19	1	C2019-1752-4-B	-	1.0000	019F1901.D		4
20	20	1	C2019-1801-1-A	-	1.0000	020F2001.D		6
21	21	1	C2019-1801-1-B	-	1.0000	021F2101.D		6
22	22	1	C2019-1829-1-A	-	1.0000	022F2201.D		2
23	23	1	C2019-1829-1-B	-	1.0000	023F2301.D		2
24	24	1	C2019-1840-1-A	-	1.0000	024F2401.D		4
25	25	1	C2019-1840-1-B	-	1.0000	025F2501.D		4
26	26	1	QC-1(1)-A	-	1.0000	026F2601.D		4
27	27	1	QC-1(1)-B	-	1.0000	027F2701.D		4
28	28	1	C2019-1844-1-A	-	1.0000	028F2801.D		6
29	29	1	C2019-1844-1-B	-	1.0000	029F2901.D		6
30	30	1	C2019-1863-1-A	-	1.0000	030F3001.D		2
31	31	1	C2019-1863-1-B	-	1.0000	031F3101.D		2
32	32	1	C2019-1889-1-A	-	1.0000	032F3201.D		2
33	33	1	C2019-1889-1-B	-	1.0000	033F3301.D		2
34	34	1	C2019-1934-1-A	-	1.0000	034F3401.D		4
35	35	1	C2019-1934-1-B	-	1.0000	035F3501.D		4
36	36	1	C2019-1957-1-A	-	1.0000	036F3601.D		2
37	37	1	C2019-1957-1-B	-	1.0000	037F3701.D		2
38	38	1	C2019-1968-1-A	-	1.0000	038F3801.D		5
39	39	1	C2019-1968-1-B	-	1.0000	039F3901.D		4
40	40	1	C2019-1970-1-A	-	1.0000	040F4001.D		2
41	41	1	C2019-1970-1-B	-	1.0000	041F4101.D		2
42	42	1	C2019-1973-1-A	-	1.0000	042F4201.D		4
43	43	1	C2019-1973-1-B	-	1.0000	043F4301.D		4
44	44	1	C2019-1976-1-A	-	1.0000	044F4401.D		2
45	45	1	C2019-1976-1-B	-	1.0000	045F4501.D		2
46	46	1	QC-2(2)-A	-	1.0000	046F4601.D		4

Run #	Location	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal	# Cmp
47	47	1	QC-2(2)-B	-	1.0000	047F4701.D		4
48	48	1	ISTD BLANK-2	-	1.0000	048F4801.D		2
49	49	1	water-2	-	1.0000	049F4901.D		0
50	50	1	0.05 DIAGNOSTIC	-	1.0000	050F5001.D		4
51	51	1	0.100 DIAGNOSTIC	-	1.0000	051F5101.D		4
52	52	1	0.200 DIAGNOSTIC	-	1.0000	052F5201.D		4
53	53	1	0.300 DIAGNOSTIC	-	1.0000	053F5301.D		4
54	54	1	0.500 DIAGNOSTIC	-	1.0000	054F5401.D		4

```
================================================================
                        Calibration Table
================================================================
```

```
----------------------------------------------------------------
                    General Calibration Setting
----------------------------------------------------------------
```

Calib. Data Modified :   Tuesday, October 15, 2019 3:13:11 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]
-------|-|--|----------|----------|----------|---|---|-|--------------------
  2.000 2  1    1.00000    5.00000 2.00000e-1  No  No 2 Difluoroethane
  2.000 1  1    1.00000    5.00000 2.00000e-1  No  No 1 Difluoroethane
  2.494 1  1    1.00000    3.69669 2.70512e-1  No  No 1 Methanol
  2.772 1  1    1.00000    3.19311 3.13174e-1  No  No 1 Acetaldehyde
  2.797 2  1    1.00000    3.10575 3.21983e-1  No  No 2 Acetaldehyde
  3.108 1  1 5.00000e-2    8.85689 5.64532e-3  No  No 1 Ethanol
           2 1.00000e-1   17.76771 5.62819e-3
           3 2.00000e-1   35.45885 5.64034e-3
           4 3.00000e-1   54.01428 5.55409e-3
           5 5.00000e-1   90.81020 5.50599e-3
  3.211 2  1    1.00000    4.26062 2.34707e-1  No  No 2 Methanol
  3.715 1  1    1.00000    9.73055 1.02769e-1  No  No 1 Isopropyl alcohol
  4.180 2  1 5.00000e-2    8.89237 5.62280e-3  No  No 2 Ethanol
           2 1.00000e-1   17.70471 5.64822e-3
           3 2.00000e-1   35.50703 5.63269e-3
           4 3.00000e-1   54.17454 5.53766e-3
           5 5.00000e-1   90.86906 5.50242e-3
  4.530 1  1    1.00000    6.49940 1.53860e-1  No  No 1 Acetone
  4.549 2  1    1.00000    6.89301 1.45075e-1  No  No 2 Acetone
  4.870 2  1    1.00000   10.70642 9.34019e-2  No  No 2 Isopropyl alcohol
  4.942 1  1    1.00000   90.36797 1.10659e-2  No Yes 1 n-Propanol
           2    1.00000   90.78079 1.10155e-2
           3    1.00000   90.82334 1.10104e-2
           4    1.00000   91.87808 1.08840e-2
           5    1.00000   92.12633 1.08547e-2
  7.619 2  1    1.00000   88.43904 1.13072e-2  No Yes 2 n-Propanol
           2    1.00000   88.66056 1.12790e-2
           3    1.00000   88.20879 1.13367e-2
           4    1.00000   89.09641 1.12238e-2
           5    1.00000   89.28278 1.12004e-2
-------------------------------------------------------------------------

-------------------------------------------------------------------------

                            Peak Sum Table
-------------------------------------------------------------------------

***No Entries in table***
-------------------------------------------------------------------------
=========================================================================
                          Calibration Curves
=========================================================================
```
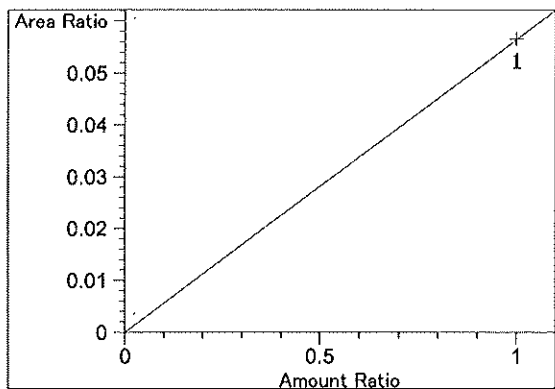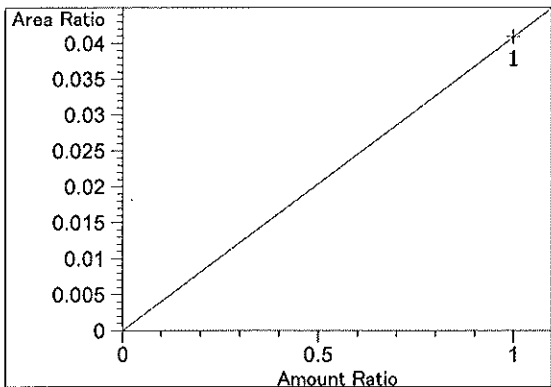

Difluoroethane at exp. RT: 2.000
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.:   0.00000
Formula: y = mx
        m: 5.65361e-2
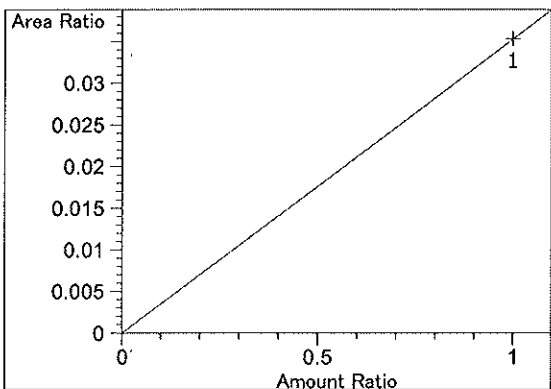   x: Amount Ratio
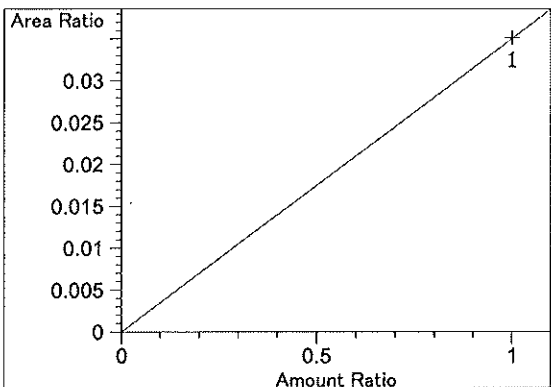   y: Area Ratio
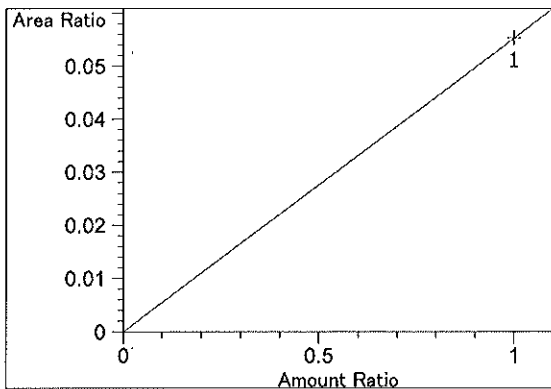
Difluoroethane at exp. RT: 2.000
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.:   0.00000
Formula: y = mx
        m: 5.53293e-2
        x: Amount Ratio
        y: Area Ratio

Methanol at exp. RT: 2.494
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.:   0.00000
Formula: y = mx
        m: 4.09071e-2
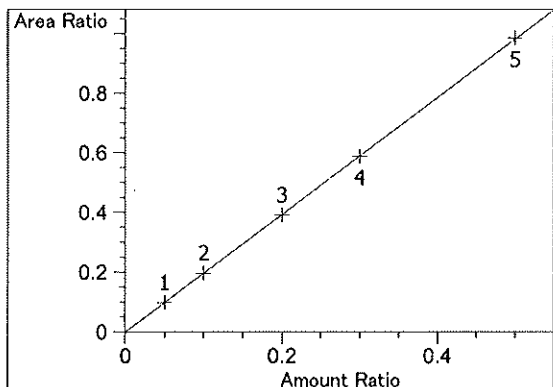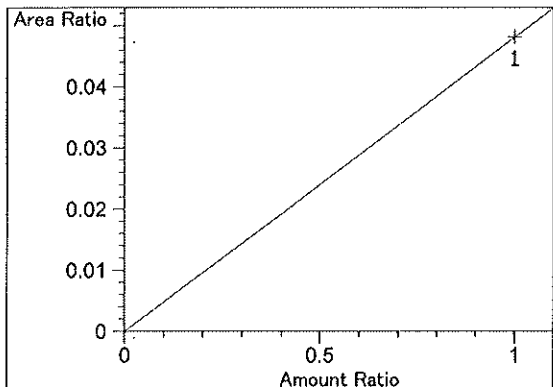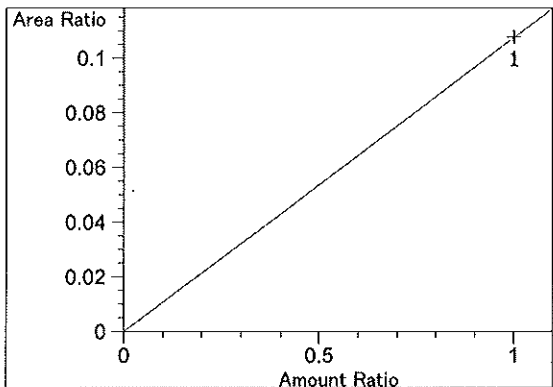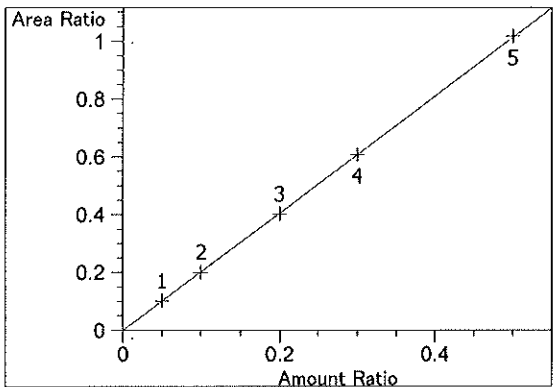   x: Amount Ratio
        y: Area Ratio

Acetaldehyde at exp. RT: 2.772
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.:   0.00000
Formula: y = mx
        m: 3.53345e-2
        x: Amount Ratio
        y: Area Ratio

Acetaldehyde at exp. RT: 2.797
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.:   0.00000
Formula: y = mx
        m: 3.51174e-2
        x: Amount Ratio
        y: Area Ratio

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

Ethanol at exp. RT: 3.108
FID1 A, Front Signal
Correlation: 0.99999
Residual Std. Dev.:   0.00221
Formula: y = mx
       m: 1.96632
       x: Amount Ratio
       y: Area Ratio

Methanol at exp. RT: 3.211
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.:   0.00000
Formula: y = mx
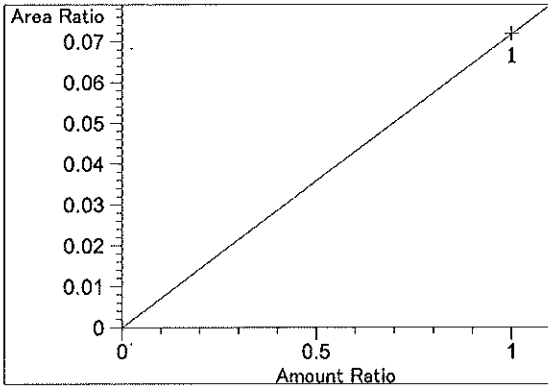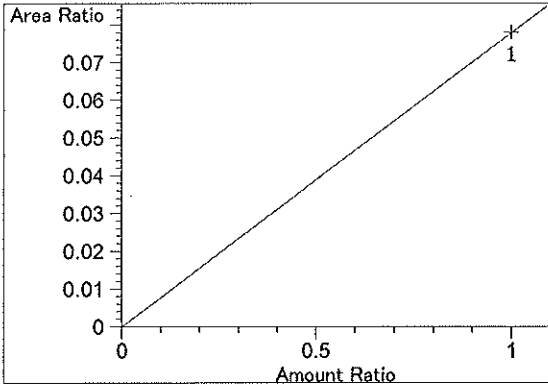   m: 4.81758e-2
       x: Amount Ratio
       y: Area Ratio

Isopropyl alcohol at exp. RT: 3.715
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.:   0.00000
Formula: y = mx
       m: 1.07677e-1
       x: Amount Ratio
       y: Area Ratio

Ethanol at exp. RT: 4.180
FID2 B, Back Signal
Correlation: 0.99999
Residual Std. Dev.:   0.00285
Formula: y = mx
       m: 2.03006
       x: Amount Ratio
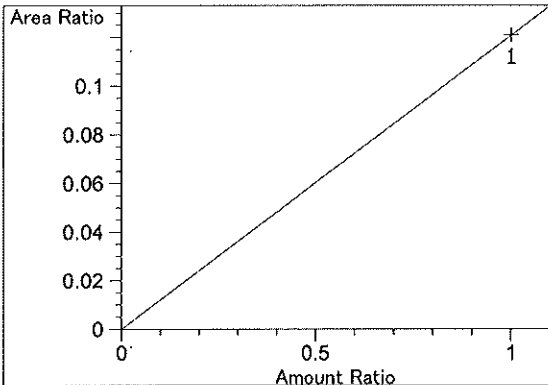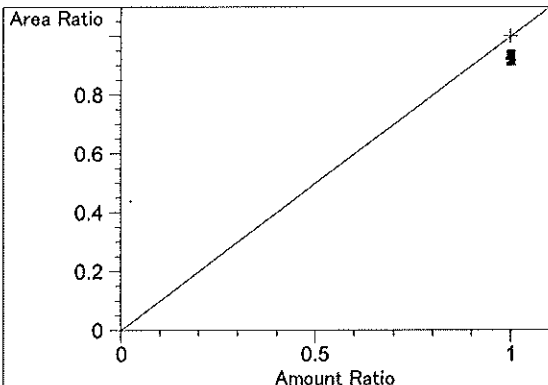   y: Area Ratio

Acetone at exp. RT: 4.530
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.:   0.00000
Formula: y = mx
    m: 7.19215e-2
    x: Amount Ratio
    y: Area Ratio

Acetone at exp. RT: 4.549
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.:   0.00000
Formula: y = mx
    m: 7.79408e-2
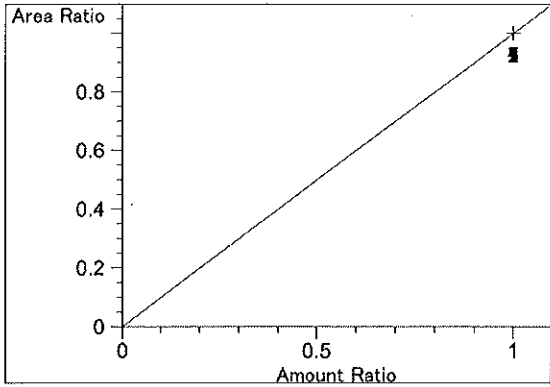   x: Amount Ratio
    y: Area Ratio

Isopropyl alcohol at exp. RT: 4.870
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.:   0.00000
Formula: y = mx
    m: 1.21060e-1
    x: Amount Ratio
    y: Area Ratio

n-Propanol at exp. RT: 4.942
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.:   0.00000
Formula: y = mx
    m: 1.00000
    x: Amount Ratio
    y: Area Ratio

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

n-Propanol at exp. RT: 7.619
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.:   0.00000
Formula: y = mx
        m: 1.00000
        x: Amount Ratio
        y: Area Ratio

===

Sequence File C:\Chem32\1\TEMP\AESEQ\QS_15.10.2019_12.36.01\10-15-19cal.S
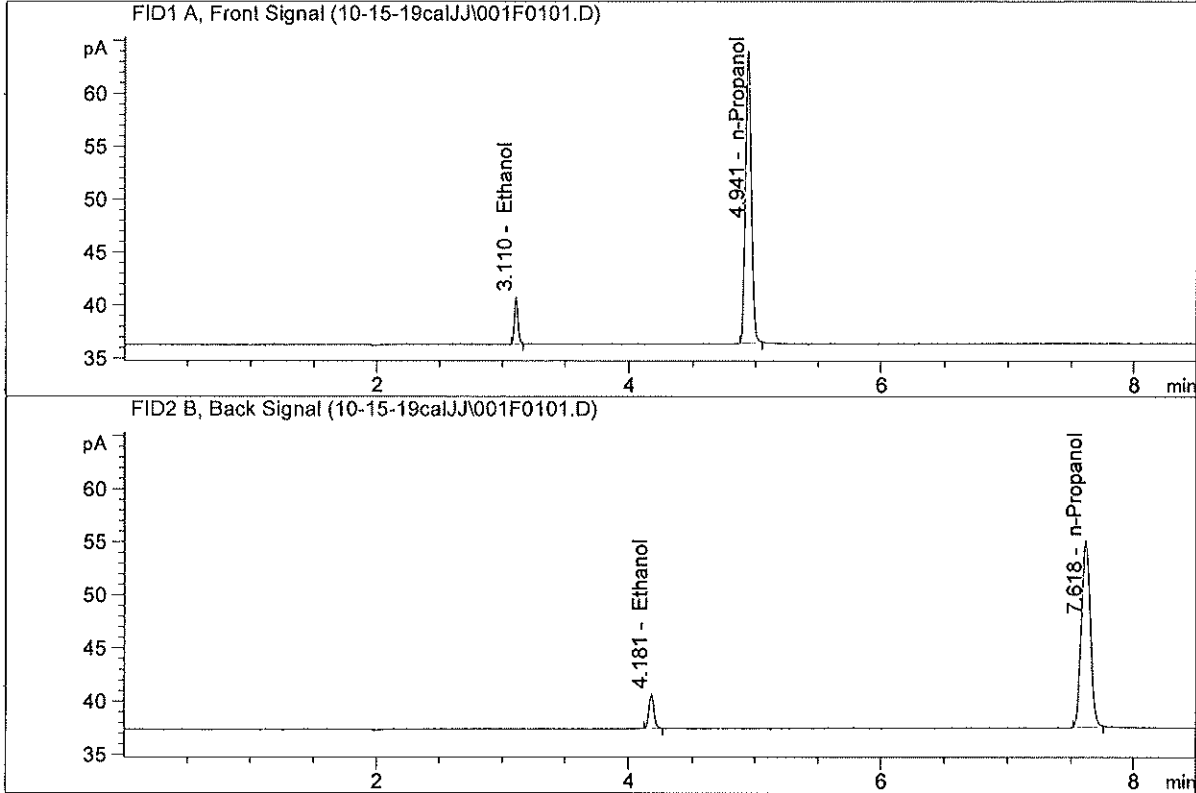
S a m p l e   S u m m a r y

Sequence table: C:\Chem32\1\TEMP\AESEQ\QS_15.10.2019_12.36.01\10-15-19cal.S
Data directory path: C:\Chem32\1\Data\10-15-19calJJ
Logbook: C:\Chem32\1\Data\10-15-19calJJ\10-15-19cal.LOG
Sequence start: 10/15/2019 12:49:44 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	0.05	-	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	blank	-	1.0000	006F0601.D		2

ISP Forensic Services Blood Alcohol Report

```
Sample Name      :    0.05
Laboratory       :    Coeur d' Alene
Injection Date   :    Oct 15, 2019
Method           :    ALCOHOL.M
Acq. Instrument:      CN10742044-IT00725005
```


FID1 A, Front Signal (10-15-19calJJ\001F0101.D)

FID2 B, Back Signal (10-15-19calJJ\001F0101.D)

#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	8.85689	0.0498	g/100cc
2.	Ethanol	Column 2:	8.89237	0.0495	g/100cc
3.	n-Propanol	Column 1:	90.36797	1.0000	g/100cc
4.	n-Propanol	Column 2:	88.43904	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

```
Sample Name      :    0.100
Laboratory       :    Coeur d' Alene
Injection Date   :    Oct 15, 2019
Method           :    ALCOHOL.M
Acq. Instrument:      CN10742044-IT00725005
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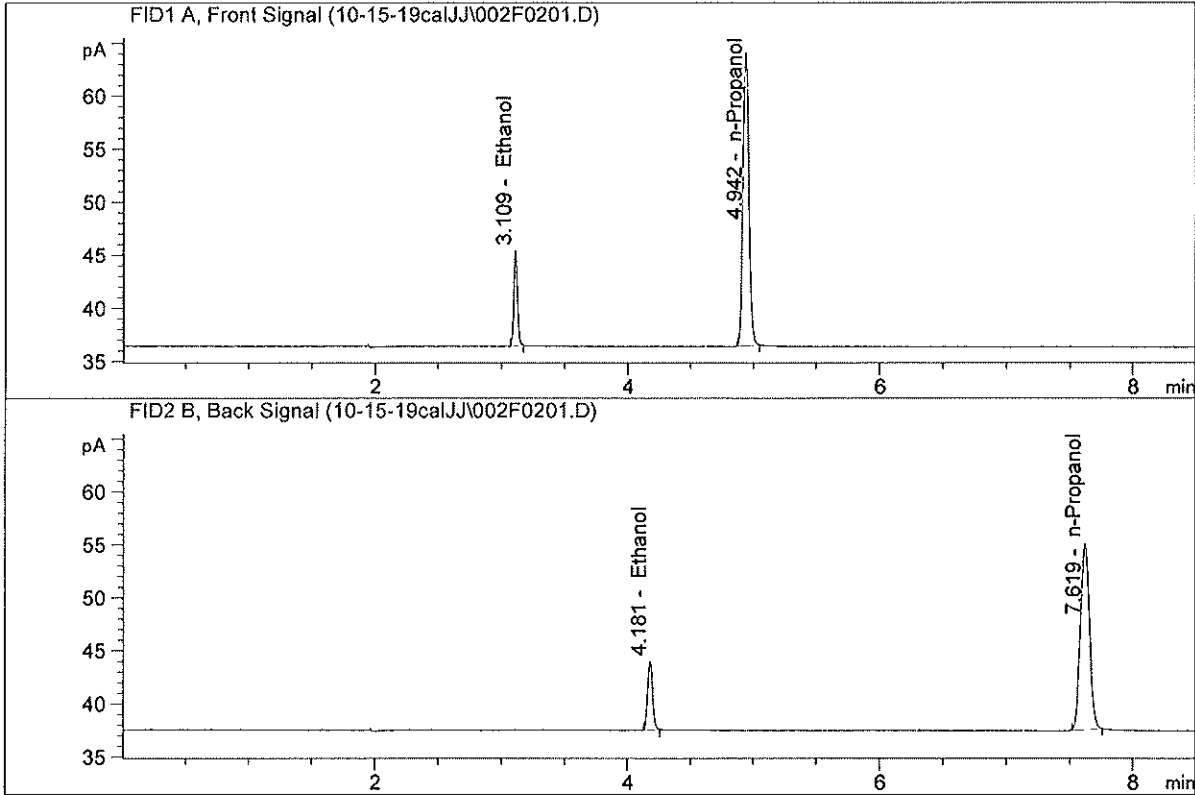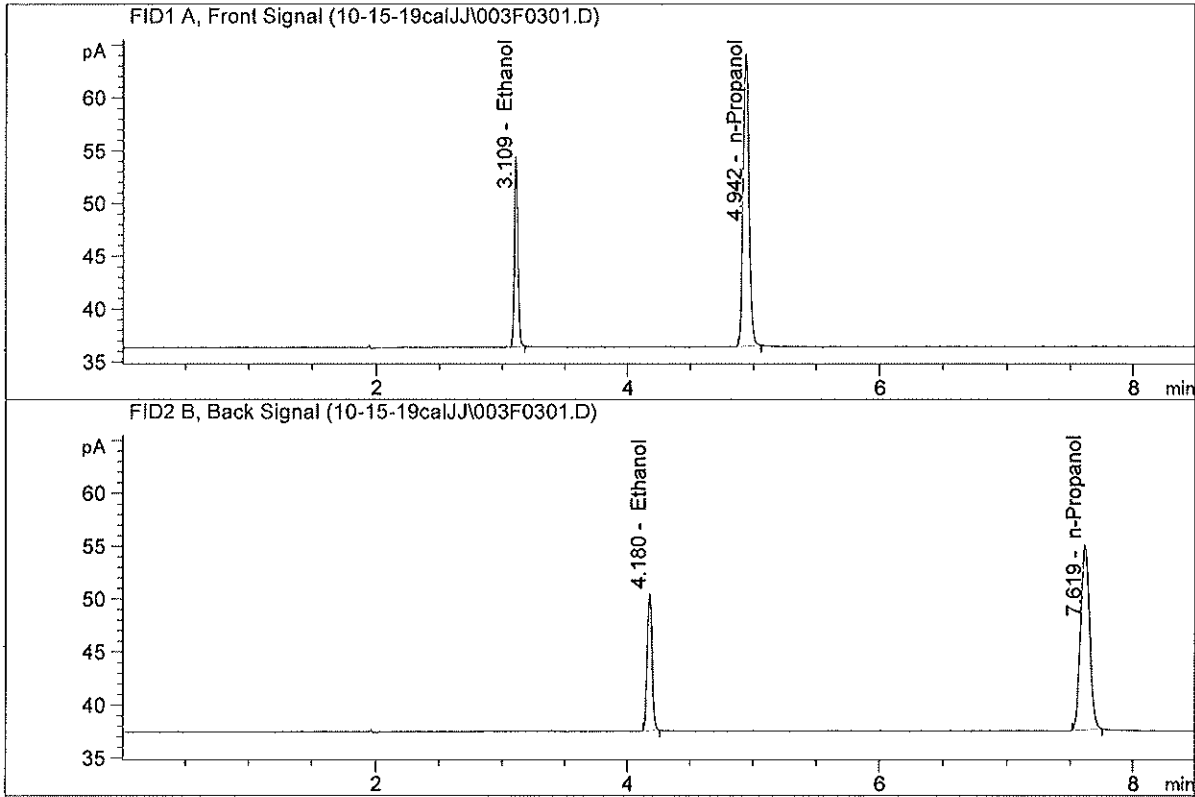

#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	17.76771	0.0995	g/100cc
2.	Ethanol	Column 2:	17.70471	0.0984	g/100cc
3.	n-Propanol	Column 1:	90.78079	1.0000	g/100cc
4.	n-Propanol	Column 2:	88.66056	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

```
Sample Name      :   0.200
Laboratory       :   Coeur d' Alene
Injection Date   :   Oct 15, 2019
Method           :   ALCOHOL.M
Acq. Instrument:     CN10742044-IT00725005
```


FID1 A, Front Signal (10-15-19calJJ\003F0301.D)

FID2 B, Back Signal (10-15-19calJJ\003F0301.D)

#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	35.45885	0.1986	g/100cc
2.	Ethanol	Column 2:	35.50703	0.1983	g/100cc
3.	n-Propanol	Column 1:	90.82334	1.0000	g/100cc
4.	n-Propanol	Column 2:	88.20879	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

```
Sample Name      :   0.300
Laboratory       :   Coeur d' Alene
Injection Date   :   Oct 15, 2019
Method           :   ALCOHOL.M
Acq. Instrument:     CN10742044-IT00725005
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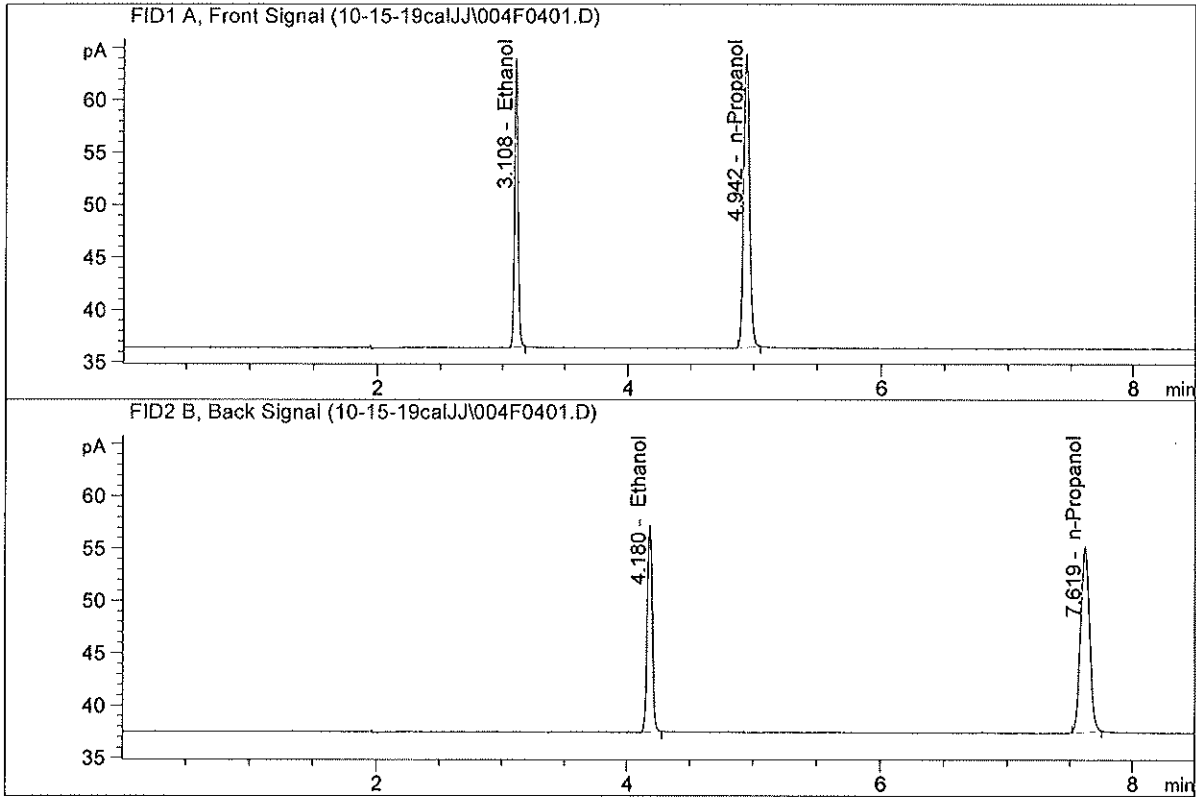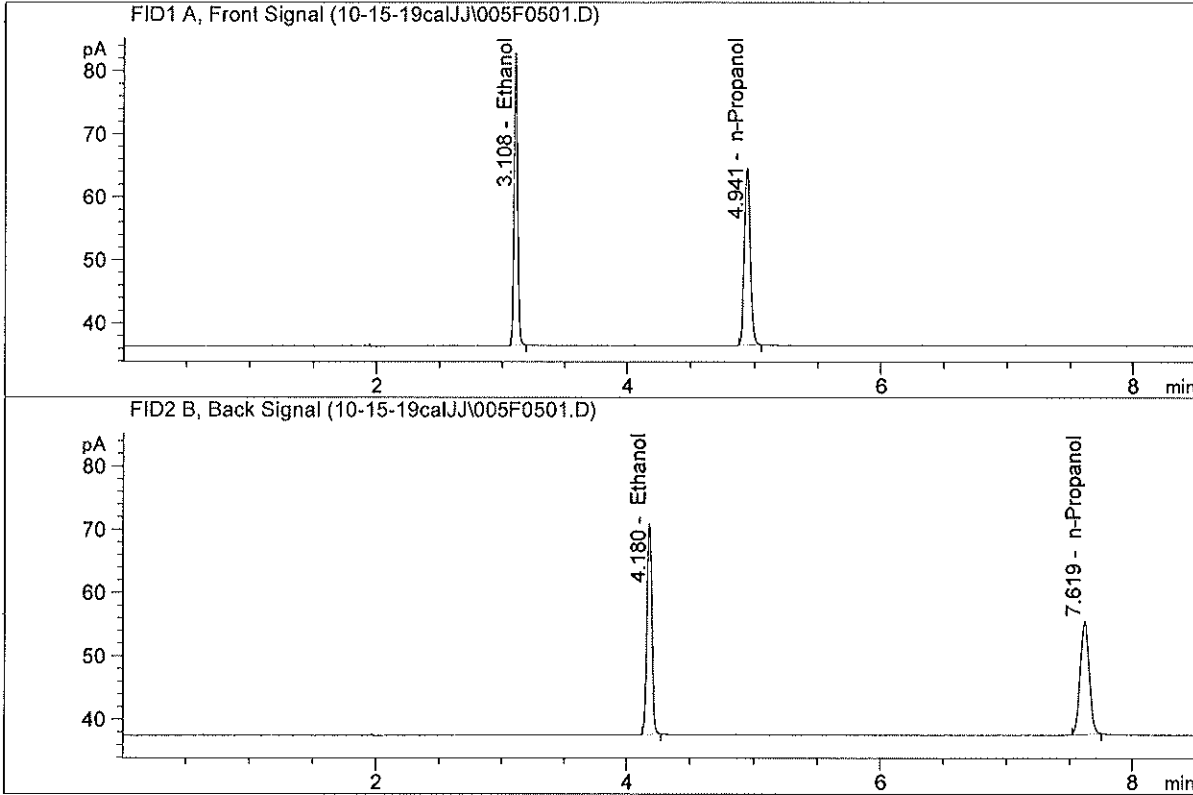

#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	54.01428	0.2990	g/100cc
2.	Ethanol	Column 2:	54.17454	0.2995	g/100cc
3.	n-Propanol	Column 1:	91.87808	1.0000	g/100cc
4.	n-Propanol	Column 2:	89.09641	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

```
Sample Name      :    0.500
Laboratory       :    Coeur d' Alene
Injection Date   :    Oct 15, 2019
Method           :    ALCOHOL.M
Acq. Instrument:      CN10742044-IT00725005
```


FID1 A, Front Signal (10-15-19calJJ\005F0501.D)

FID2 B, Back Signal (10-15-19calJJ\005F0501.D)

#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	90.81020	0.5013	g/100cc
2.	Ethanol	Column 2:	90.86906	0.5013	g/100cc
3.	n-Propanol	Column 1:	92.12633	1.0000	g/100cc
4.	n-Propanol	Column 2:	89.28278	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name   :   blank
Laboratory   :   Coeur d' Alene
Injection Date :   Oct 15, 2019
Method   :   ALCOHOL.M
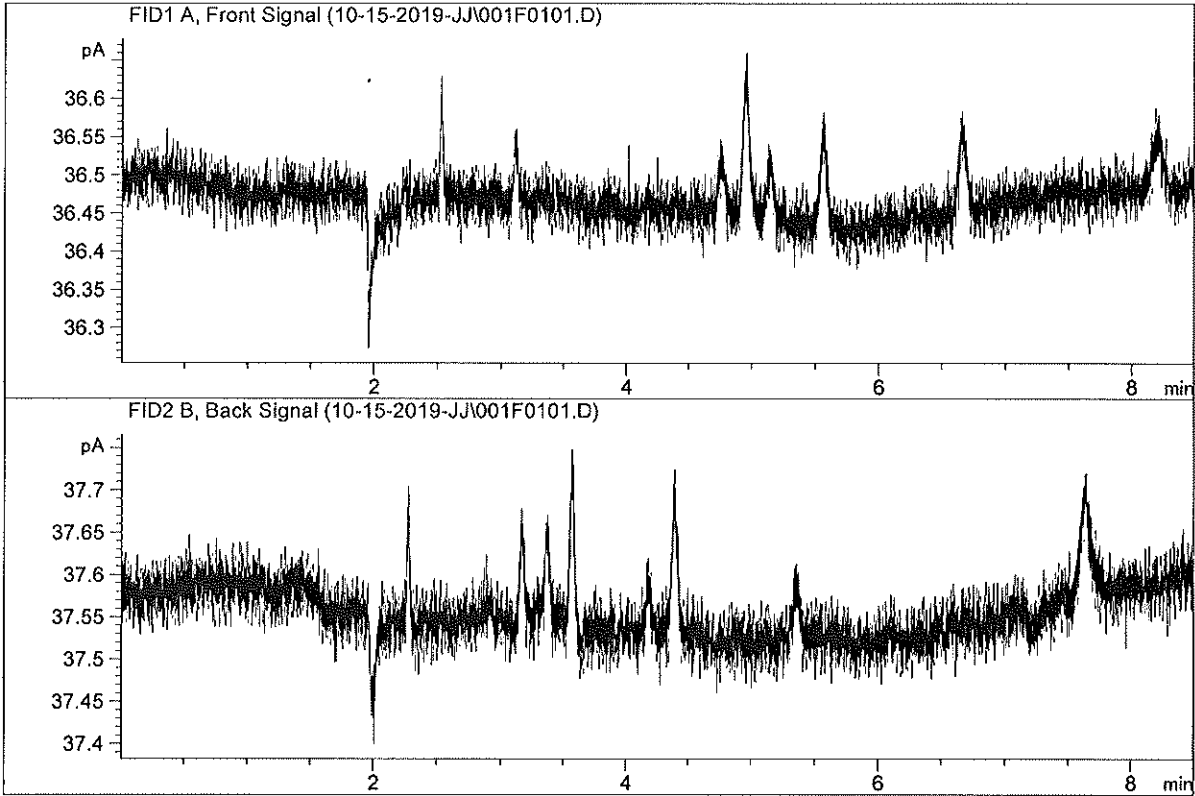Acq. Instrument :   CN10742044-IT00725005
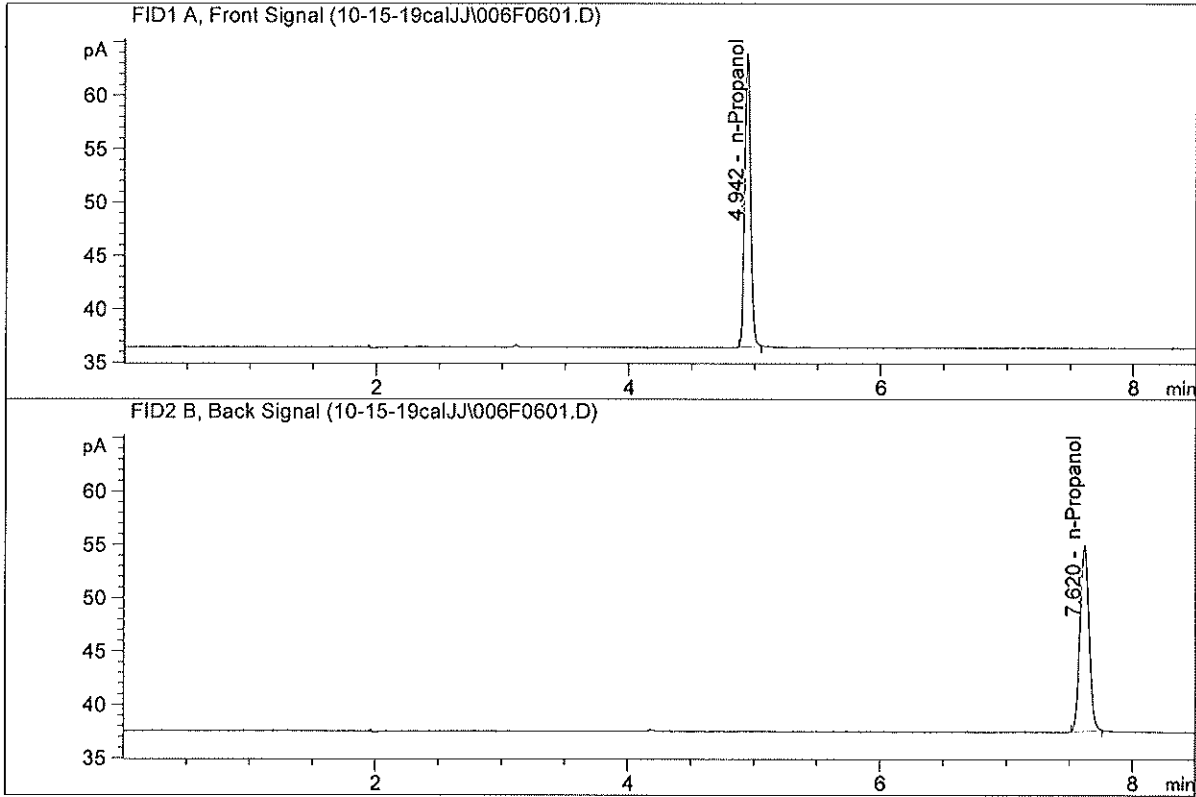
#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	89.98125	1.0000	g/100cc
4.	n-Propanol	Column 2:	87.86541	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

```
Sample Name      :    water-1
Laboratory       :    Coeur d' Alene
Injection Date   :    Oct 15, 2019
Method           :    ALCOHOL.M
Acq. Instrument:      CN10742044-IT00725005
```
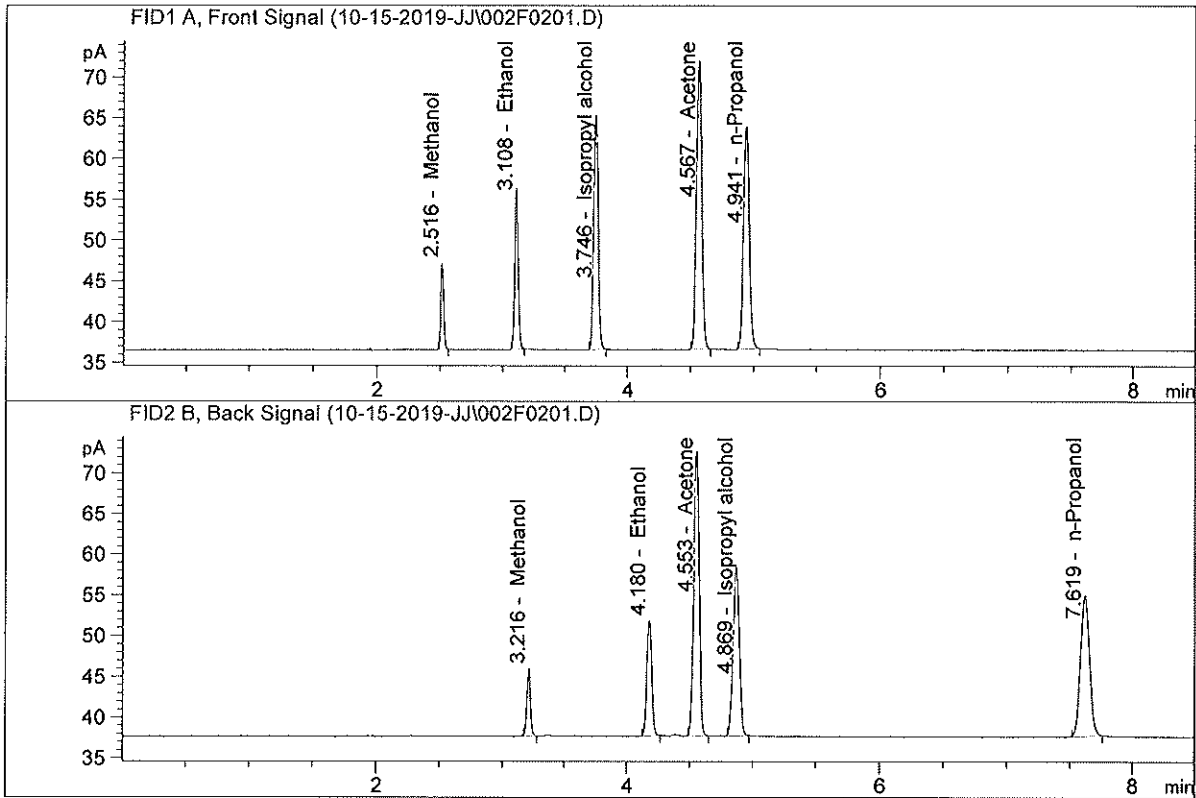

#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	0.00000	0.0000	g/100cc
4.	n-Propanol	Column 2:	0.00000	0.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name   :   VOL MIX FN-06041502
Laboratory   :   Coeur d' Alene
Injection Date :   Oct 15, 2019
Method   :   ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005

#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	38.70235	0.2210	g/100cc
2.	Ethanol	Column 2:	38.67793	0.2186	g/100cc
3.	n-Propanol	Column 1:	89.04226	1.0000	g/100cc
4.	n-Propanol	Column 2:	87.14028	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

```
Sample Name      :    ISTD BLANK-1
Laboratory       :    Coeur d' Alene
Injection Date   :    Oct 15, 2019
Method           :    ALCOHOL.M
Acq. Instrument:      CN10742044-IT00725005
```
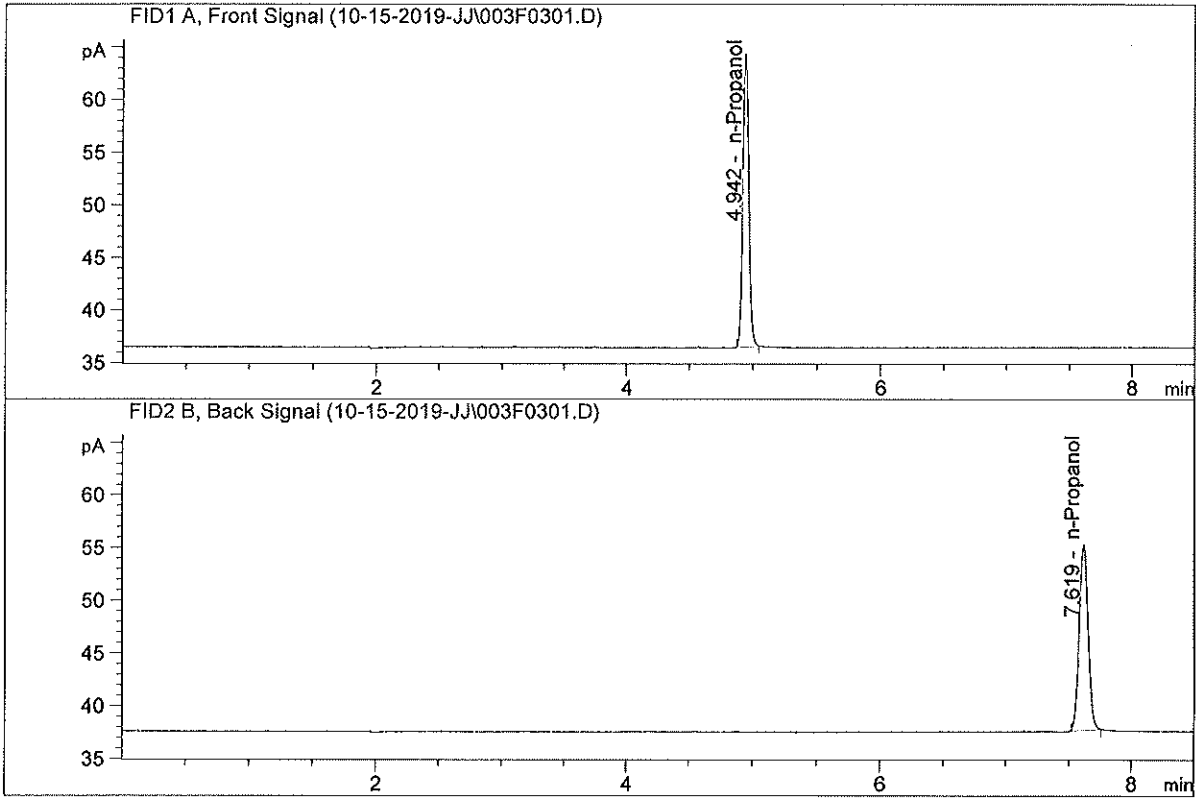

#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	90.94904	1.0000	g/100cc
4.	n-Propanol	Column 2:	88.88799	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC-2(1)   **Analysis Date(s): 15 Oct 2019**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.1961	0.1957	0.0004	0.1959	0.1960	
(g/100cc)	0.1966	0.1957	0.0009	0.1961		

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: ML600HC11379

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

Overall Mean (g/100cc)	Low	High	5% of Mean
0.196	0.186	0.206	0.010

	Reported Result	
	0.196	

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

```
Sample Name       :    QC-2(1)-A
Laboratory        :    Coeur d' Alene
Injection Date    :    Oct 15, 2019
Method            :    ALCOHOL.M
Acq. Instrument:       CN10742044-IT00725005
```


FID1 A, Front Signal (10-15-2019-JJ\004F0401.D)

FID2 B, Back Signal (10-15-2019-JJ\004F0401.D)
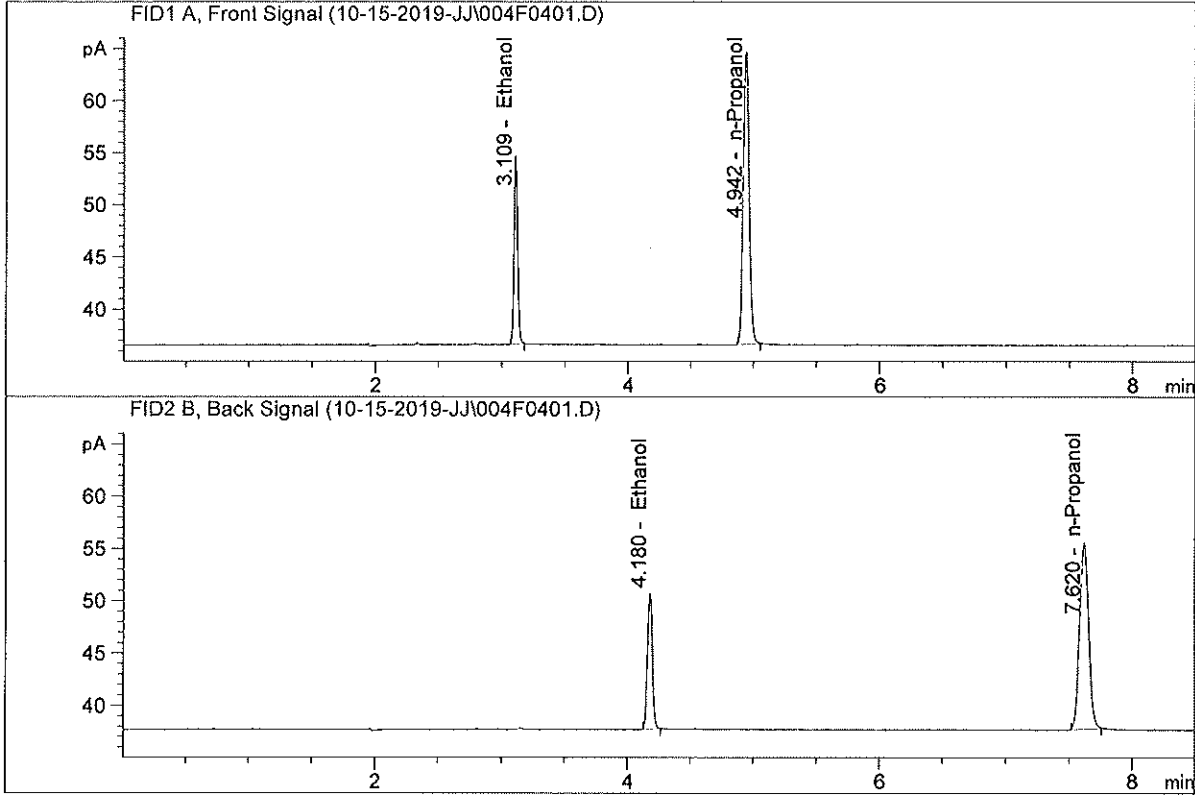
#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	35.51124	0.1961	g/100cc
2.	Ethanol	Column 2:	35.56581	0.1957	g/100cc
3.	n-Propanol	Column 1:	92.10008	1.0000	g/100cc
4.	n-Propanol	Column 2:	89.54060	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

```
Sample Name      :    QC-2(1)-B
Laboratory       :    Coeur d' Alene
Injection Date   :    Oct 15, 2019
Method           :    ALCOHOL.M
Acq. Instrument:      CN10742044-IT00725005
```
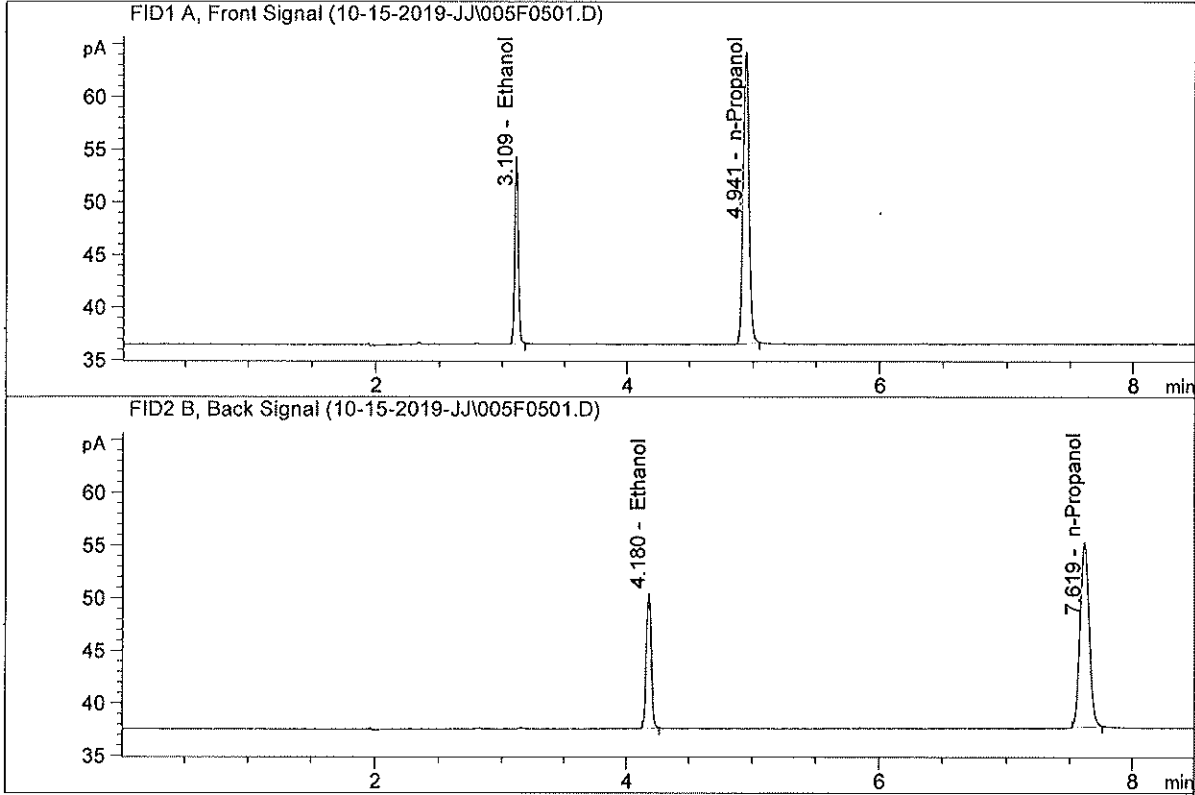

FID1 A, Front Signal (10-15-2019-JJ\005F0501.D)

FID2 B, Back Signal (10-15-2019-JJ\005F0501.D)

#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	35.12582	0.1966	g/100cc
2.	Ethanol	Column 2:	35.09735	0.1957	g/100cc
3.	n-Propanol	Column 1:	90.84682	1.0000	g/100cc
4.	n-Propanol	Column 2:	88.33175	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 0.08 FN04171701 **Analysis Date(s): 15 Oct 2019**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0816	0.0810	0.0006	0.0813	0.0806	
(g/100cc)	0.0806	0.0795	0.0011	0.0800		

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: ML600HC11379

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

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

	Reported Result	
	0.080	

Calibration and control data are stored centrally.
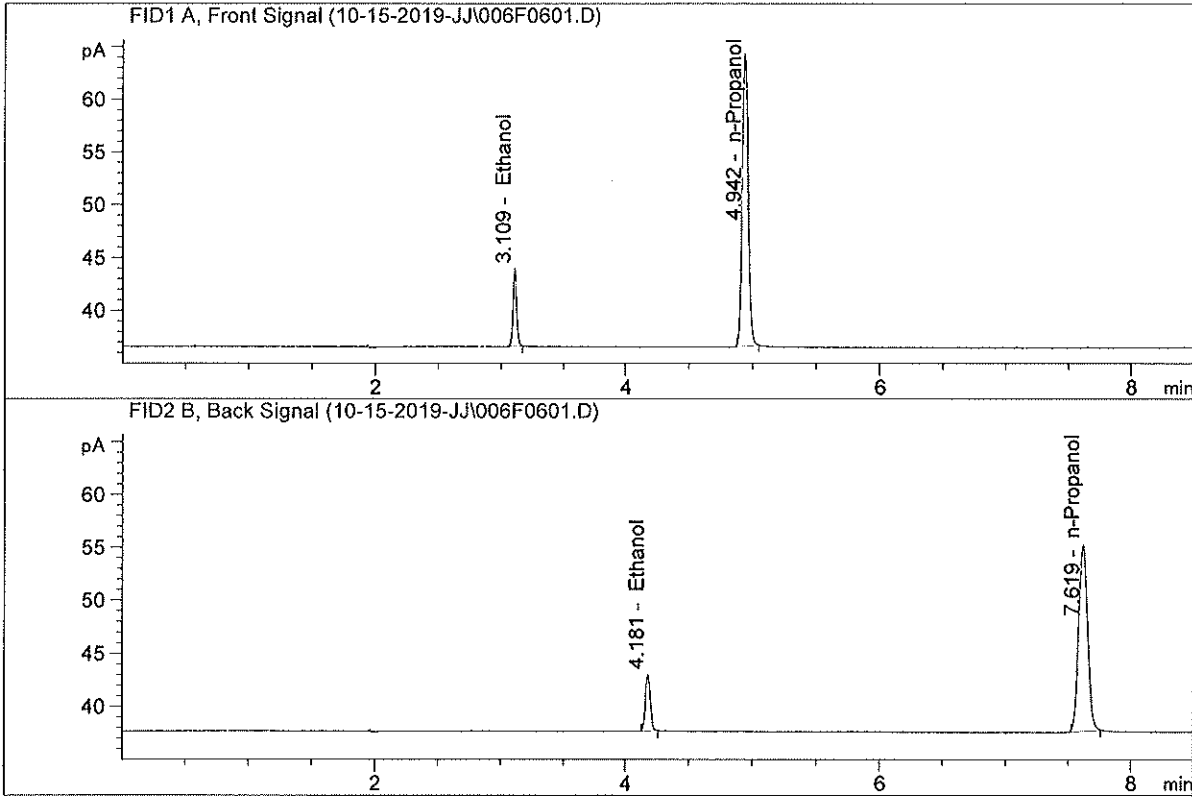
Revision: 1
Issue Date: 01/04/2019
Issuing Authority: Quality Manager

ISP Forensic Services Blood Alcohol Report

Sample Name   :   0.08 FN04171701-A
Laboratory   :   Coeur d' Alene
Injection Date   :   Oct 15, 2019
Method   :   ALCOHOL.M
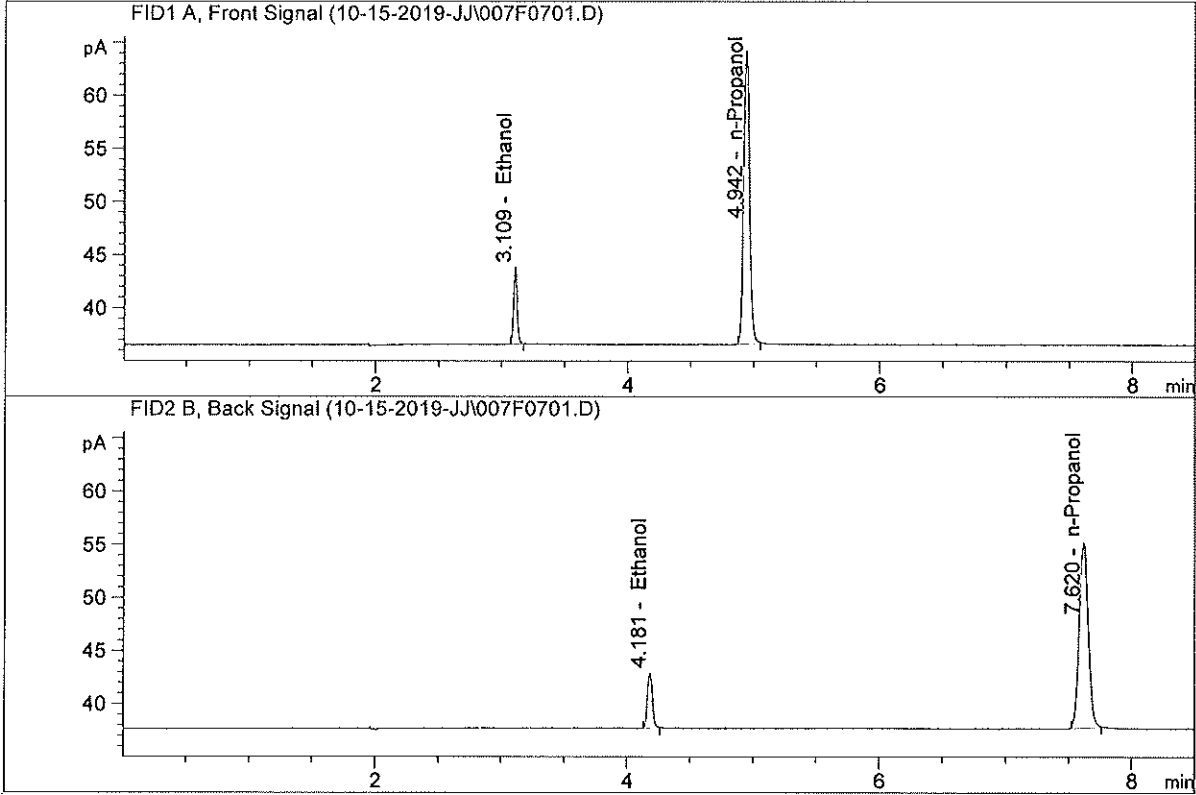Acq. Instrument: CN10742044-IT00725005

#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	14.59405	0.0816	g/100cc
2.	Ethanol	Column 2:	14.56347	0.0810	g/100cc
3.	n-Propanol	Column 1:	90.93156	1.0000	g/100cc
4.	n-Propanol	Column 2:	88.61271	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name   :   0.08 FN04171701-B
Laboratory   :   Coeur d' Alene
Injection Date :   Oct 15, 2019
Method   :   ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005

#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	14.30655	0.0806	g/100cc
2.	Ethanol	Column 2:	14.20097	0.0795	g/100cc
3.	n-Propanol	Column 1:	90.25481	1.0000	g/100cc
4.	n-Propanol	Column 2:	88.03085	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC-1(1)   **Analysis Date(s): 15 Oct 2019**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0790	0.0788	0.0002	0.0789	0.0789	
(g/100cc)	0.0791	0.0789	0.0002	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: ML600HC11379

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   :   QC-1(1)-A
Laboratory   :   Coeur d' Alene
Injection Date   :   Oct 15, 2019
Method   :   ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005

FID1 A, Front Signal (10-15-2019-JJ\026F2601.D)

FID2 B, Back Signal (10-15-2019-JJ\026F2601.D)
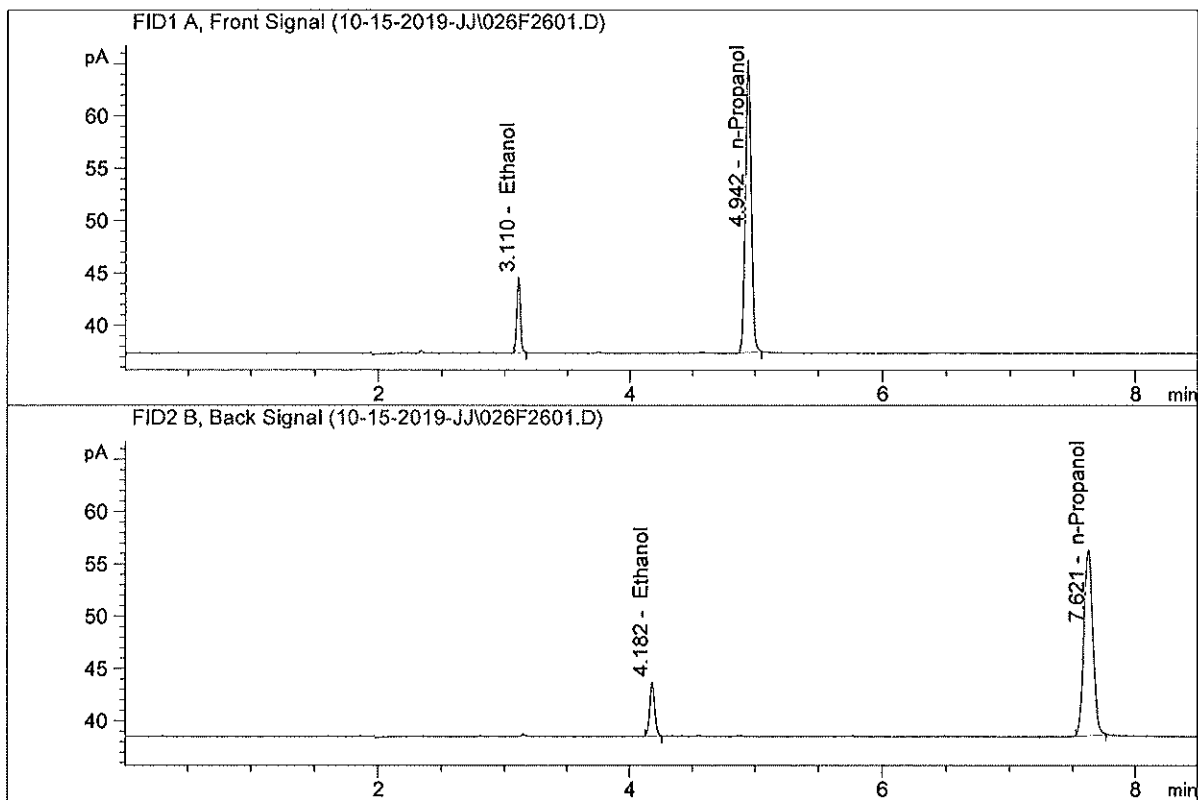
#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	14.19905	0.0790	g/100cc
2.	Ethanol	Column 2:	14.27709	0.0788	g/100cc
3.	n-Propanol	Column 1:	91.40876	1.0000	g/100cc
4.	n-Propanol	Column 2:	89.25763	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

```
Sample Name      :   QC-1(1)-B
Laboratory       :   Coeur d' Alene
Injection Date   :   Oct 15, 2019
Method           :   ALCOHOL.M
Acq. Instrument:     CN10742044-IT00725005
```
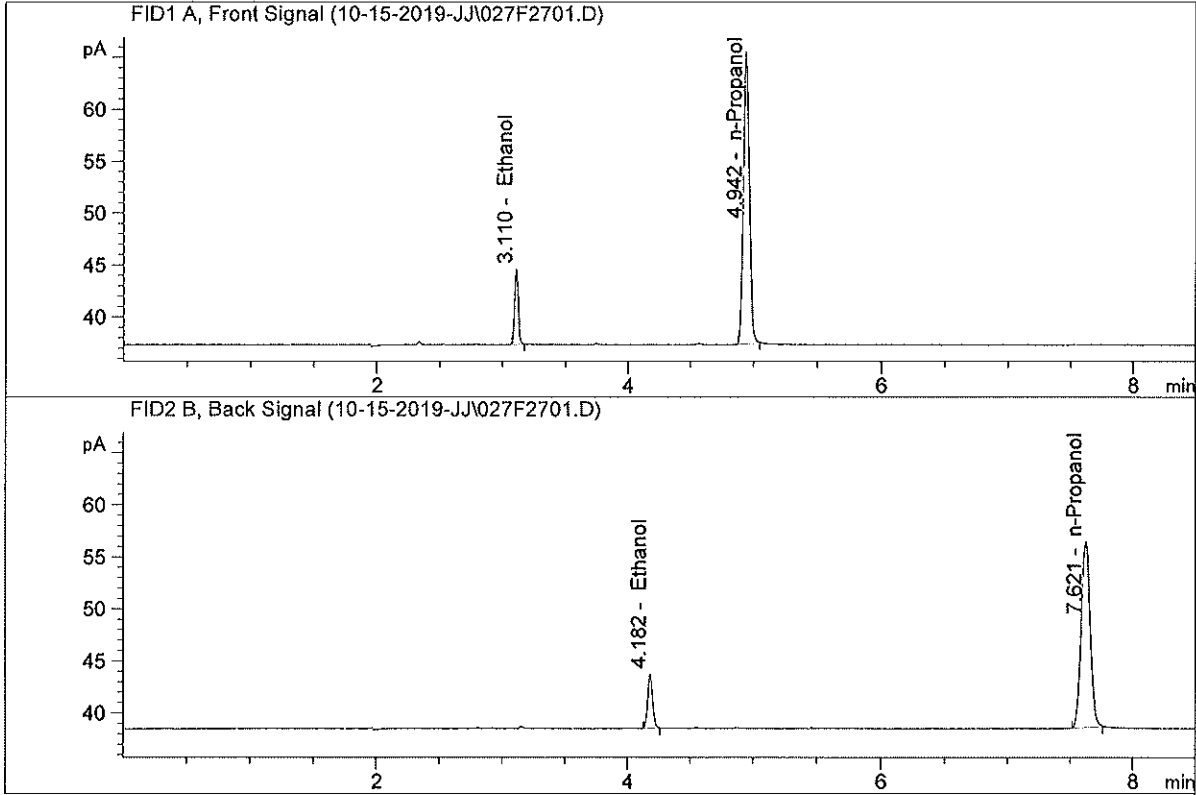

FID1 A, Front Signal (10-15-2019-JJ\027F2701.D)

FID2 B, Back Signal (10-15-2019-JJ\027F2701.D)

#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	14.33776	0.0791	g/100cc
2.	Ethanol	Column 2:	14.41655	0.0789	g/100cc
3.	n-Propanol	Column 1:	92.14104	1.0000	g/100cc
4.	n-Propanol	Column 2:	90.01804	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC-2(2)   **Analysis Date(s): 16 Oct 2019**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.1989	0.1980	0.0009	0.1984		
(g/100cc)	0.1997	0.1988	0.0009	0.1992	0.1988	

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: ML600HC11379

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

Overall Mean (g/100cc)	Low	High	5% of Mean
0.198	0.188	0.208	0.010

	Reported Result	
	0.198	

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

```
Sample Name      :    QC-2(2)-A
Laboratory       :    Coeur d' Alene
Injection Date   :    Oct 16, 2019
Method           :    ALCOHOL.M
Acq. Instrument:      CN10742044-IT00725005
```
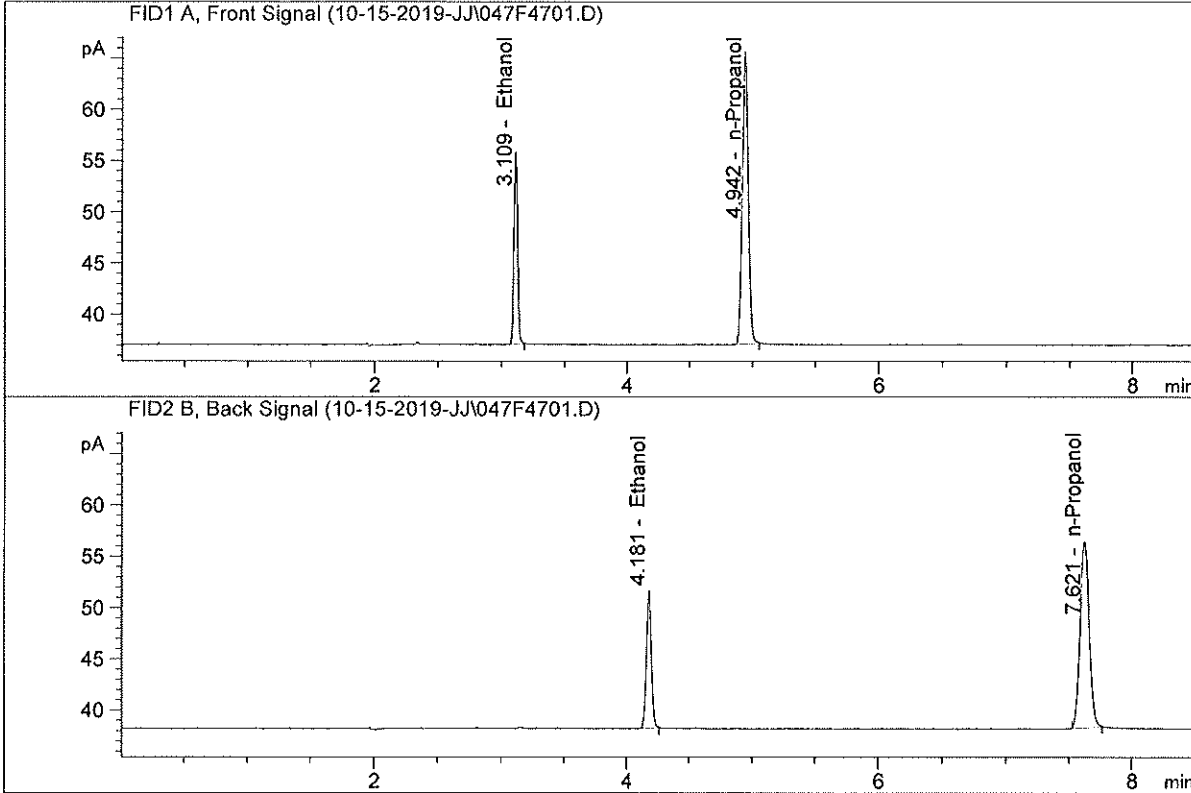

FID1 A, Front Signal (10-15-2019-JJ\046F4601.D)

3.109 - Ethanol
4.942 - n-Propanol

FID2 B, Back Signal (10-15-2019-JJ\046F4601.D)

4.181 - Ethanol
7.621 - n-Propanol

#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	36.11684	0.1989	g/100cc
2.	Ethanol	Column 2:	36.11486	0.1980	g/100cc
3.	n-Propanol	Column 1:	92.34664	1.0000	g/100cc
4.	n-Propanol	Column 2:	89.84921	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name   :   QC-2(2)-B
Laboratory   :   Coeur d' Alene
Injection Date :   Oct 16, 2019
Method   :   ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005

FID1 A, Front Signal (10-15-2019-JJ\047F4701.D)

FID2 B, Back Signal (10-15-2019-JJ\047F4701.D)

#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	36.74314	0.1997	g/100cc
2.	Ethanol	Column 2:	36.79988	0.1988	g/100cc
3.	n-Propanol	Column 1:	93.59361	1.0000	g/100cc
4.	n-Propanol	Column 2:	91.20244	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name   :   ISTD BLANK-2
Laboratory   :   Coeur d' Alene
Injection Date   :   Oct 16, 2019
Method   :   ALCOHOL.M
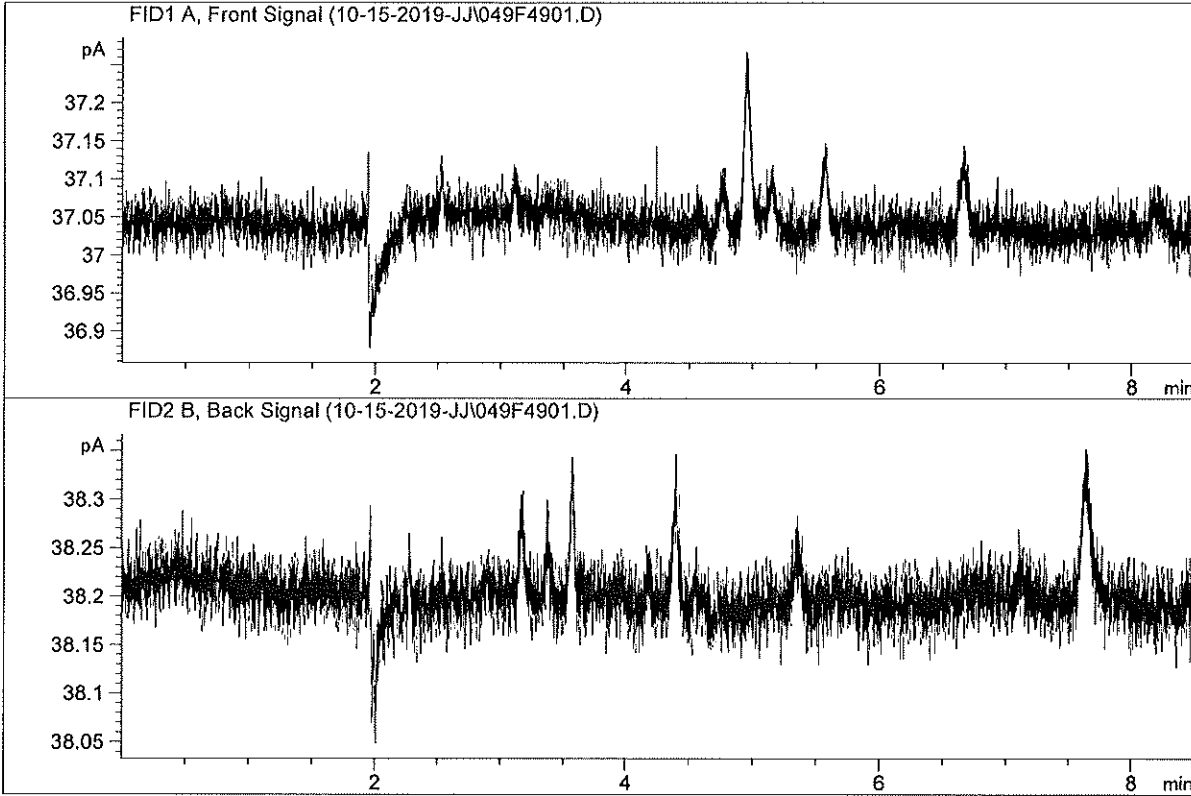Acq. Instrument: CN10742044-IT00725005
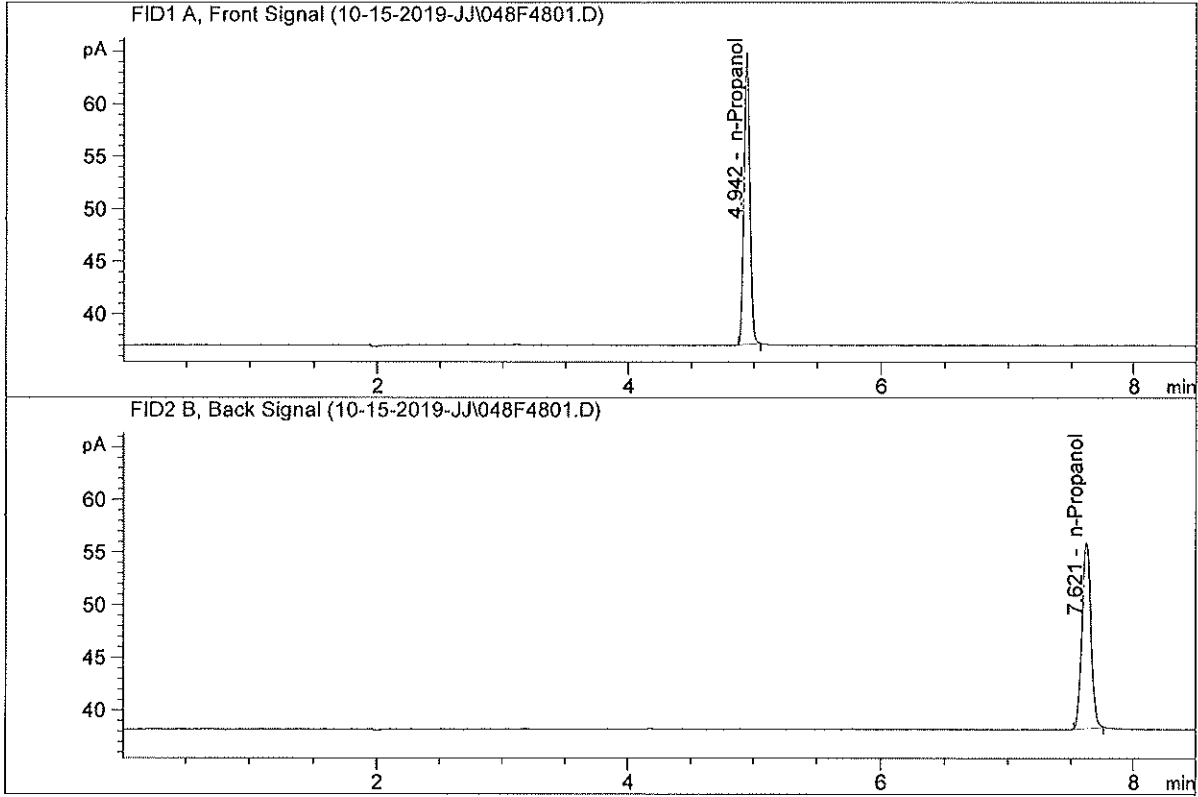
#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	91.07959	1.0000	g/100cc
4.	n-Propanol	Column 2:	88.80874	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

```
Sample Name     :    water-2
Laboratory      :    Coeur d' Alene
Injection Date  :    Oct 16, 2019
Method          :    ALCOHOL.M
Acq. Instrument:     CN10742044-IT00725005
```
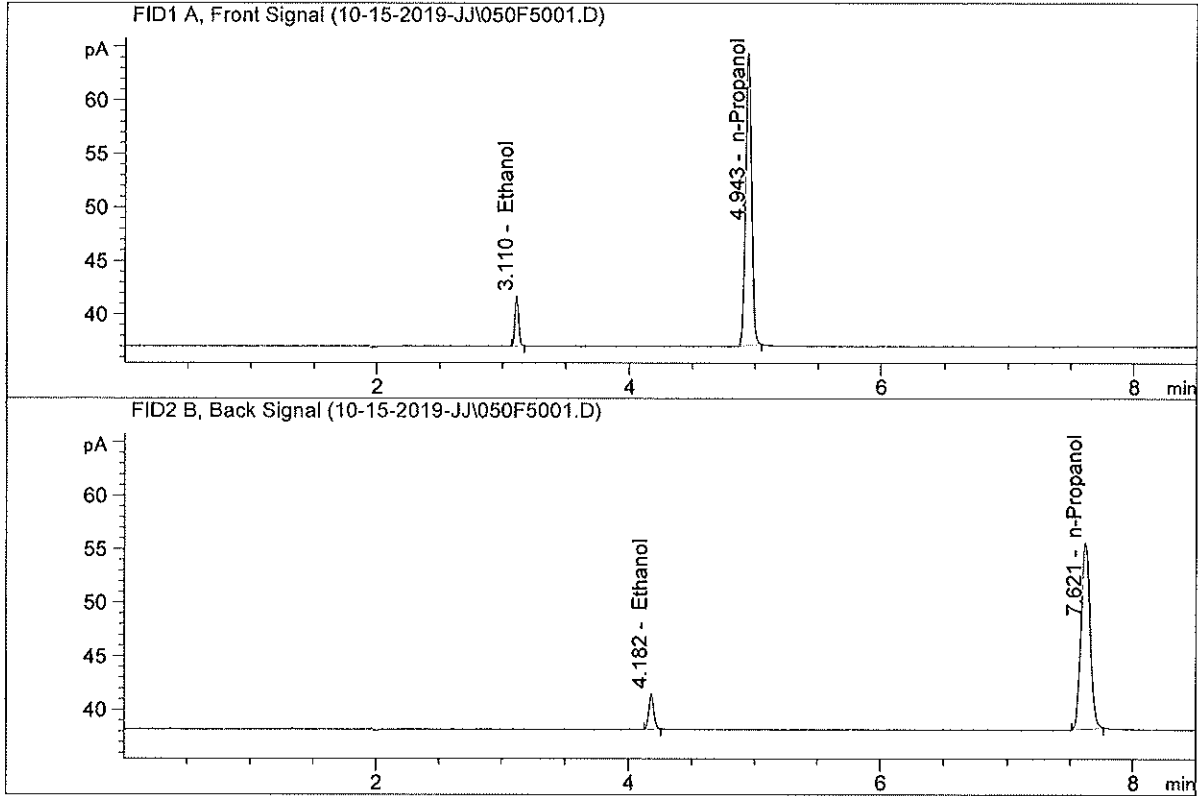

#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	0.00000	0.0000	g/100cc
4.	n-Propanol	Column 2:	0.00000	0.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

```
Sample Name     :   0.05 DIAGNOSTIC
Laboratory      :   Coeur d' Alene
Injection Date  :   Oct 16, 2019
Method          :   ALCOHOL.M
Acq. Instrument:    CN10742044-IT00725005
```


FID1 A, Front Signal (10-15-2019-JJ\050F5001.D)

FID2 B, Back Signal (10-15-2019-JJ\050F5001.D)

#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	9.20663	0.0522	g/100cc
2.	Ethanol	Column 2:	9.09644	0.0511	g/100cc
3.	n-Propanol	Column 1:	89.62101	1.0000	g/100cc
4.	n-Propanol	Column 2:	87.66021	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

```
Sample Name      :   0.100 DIAGNOSTIC
Laboratory       :   Coeur d' Alene
Injection Date   :   Oct 16, 2019
Method           :   ALCOHOL.M
Acq. Instrument:     CN10742044-IT00725005
```
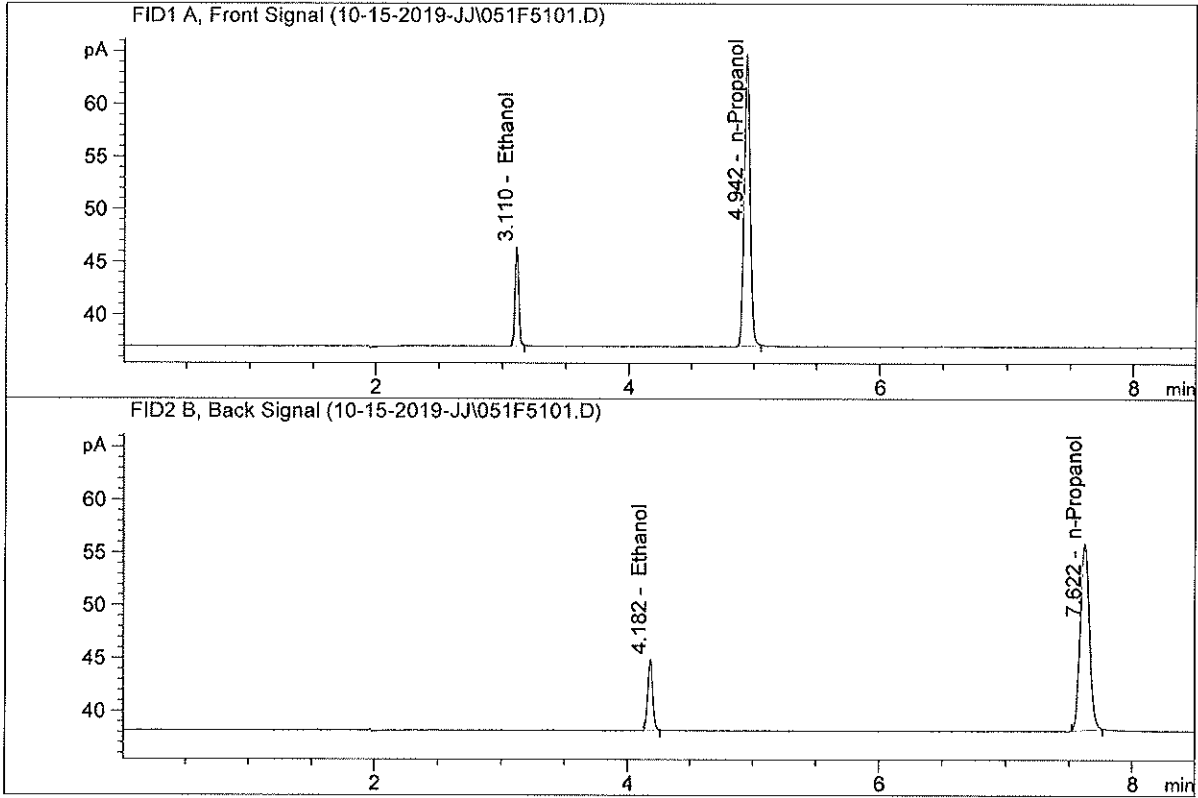
FID1 A, Front Signal (10-15-2019-JJ\051F5101.D)

3.110 - Ethanol
4.942 - n-Propanol

FID2 B, Back Signal (10-15-2019-JJ\051F5101.D)

4.182 - Ethanol
7.622 - n-Propanol

#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.45908	0.1030	g/100cc
2.	Ethanol	Column 2:	18.48982	0.1028	g/100cc
3.	n-Propanol	Column 1:	91.11005	1.0000	g/100cc
4.	n-Propanol	Column 2:	88.59604	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name   :   0.200 DIAGNOSTIC
Laboratory   :   Coeur d' Alene
Injection Date   :   Oct 16, 2019
Method   :   ALCOHOL.M
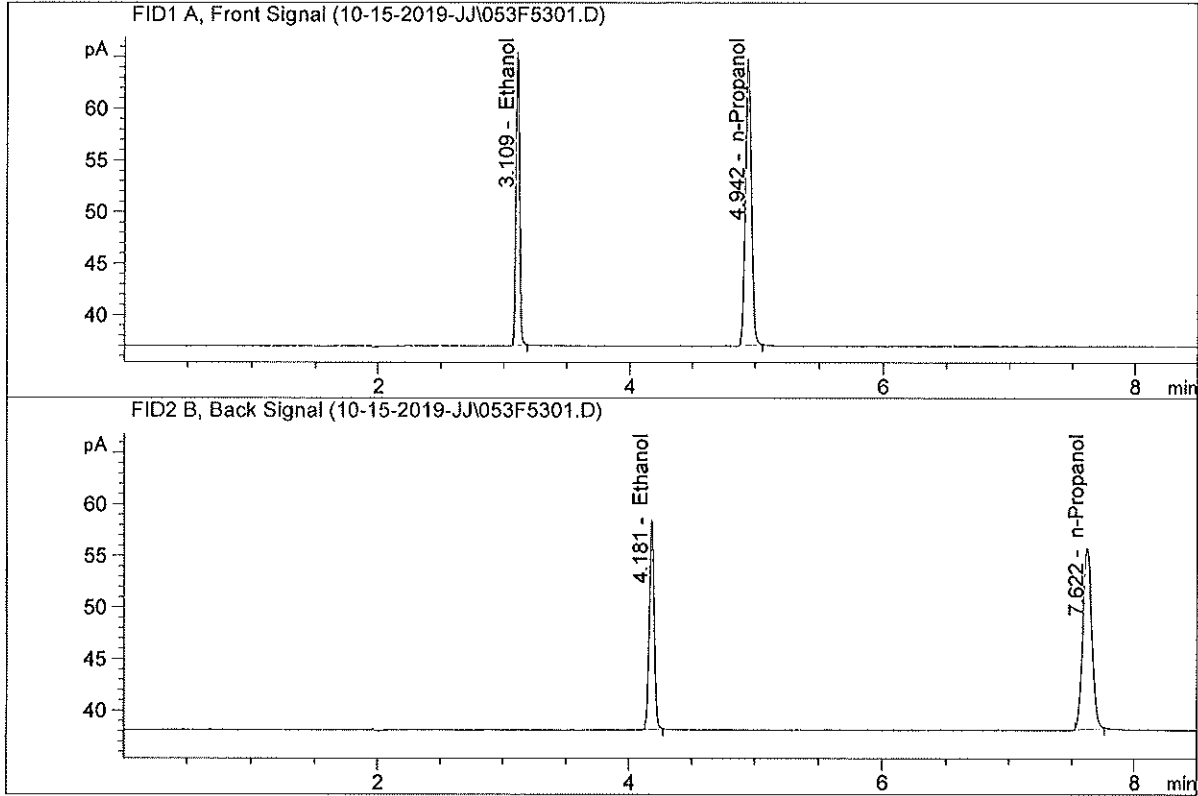Acq. Instrument: CN10742044-IT00725005
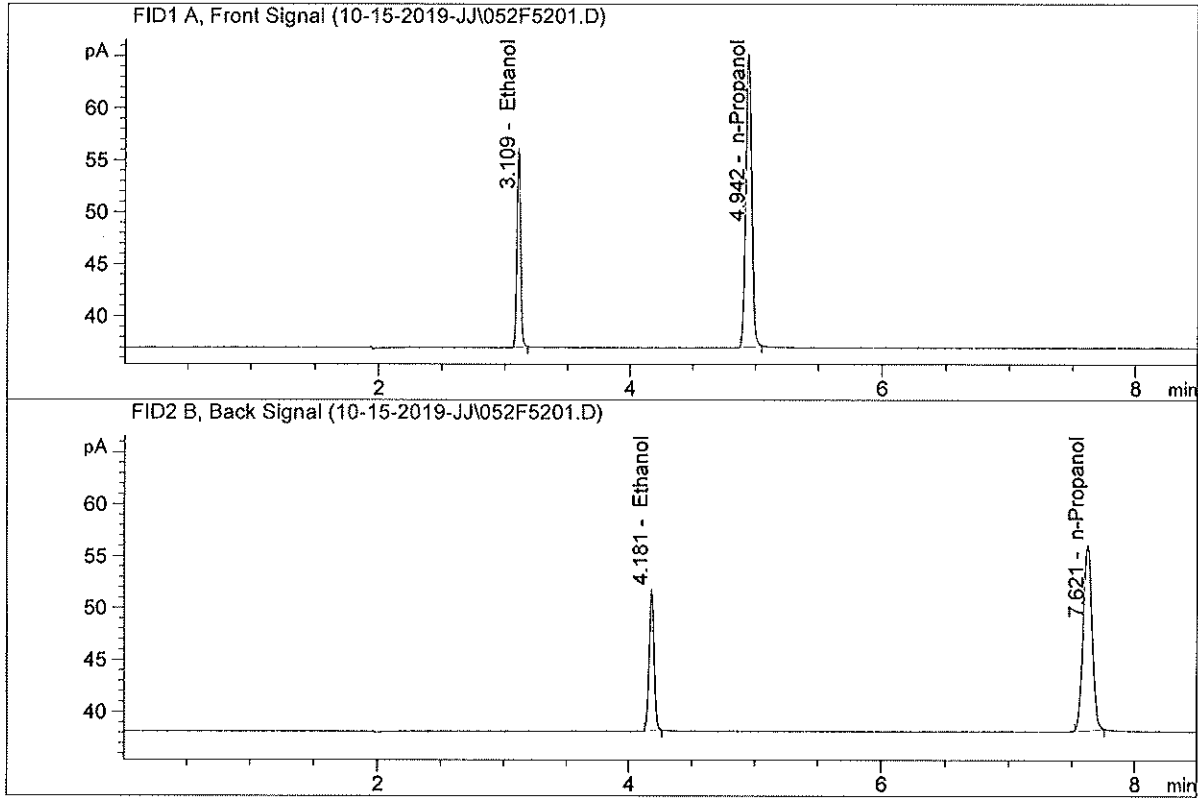
#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	37.54866	0.2067	g/100cc
2.	Ethanol	Column 2:	37.43740	0.2056	g/100cc
3.	n-Propanol	Column 1:	92.39802	1.0000	g/100cc
4.	n-Propanol	Column 2:	89.69575	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

```
Sample Name      :    0.300 DIAGNOSTIC
Laboratory       :    Coeur d' Alene
Injection Date   :    Oct 16, 2019
Method           :    ALCOHOL.M
Acq. Instrument:      CN10742044-IT00725005
```


FID1 A, Front Signal (10-15-2019-JJ\053F5301.D)

FID2 B, Back Signal (10-15-2019-JJ\053F5301.D)

#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	55.71714	0.3109	g/100cc
2.	Ethanol	Column 2:	55.84768	0.3109	g/100cc
3.	n-Propanol	Column 1:	91.14788	1.0000	g/100cc
4.	n-Propanol	Column 2:	88.48684	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name   :   0.500 DIAGNOSTIC
Laboratory   :   Coeur d' Alene
Injection Date   :   Oct 16, 2019
Method   :   ALCOHOL.M
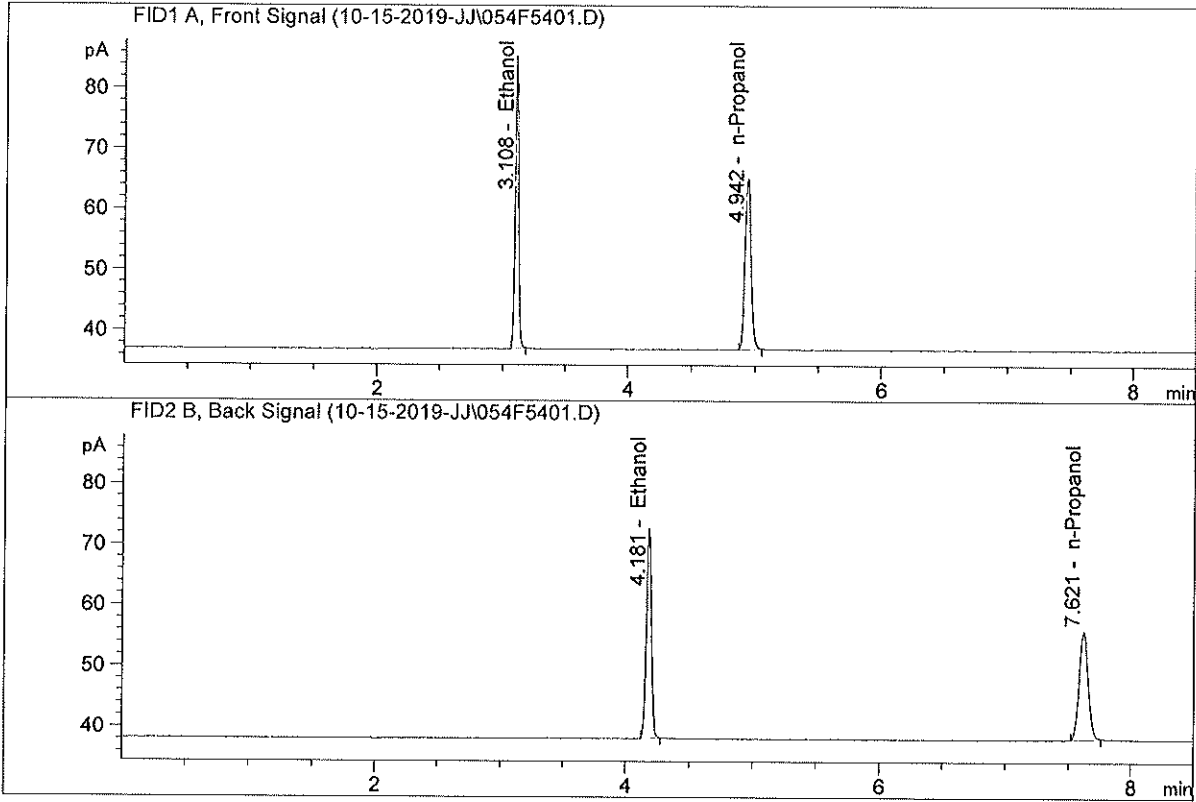Acq. Instrument: CN10742044-IT00725005

#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	94.48638	0.5206	g/100cc
2.	Ethanol	Column 2:	94.58567	0.5206	g/100cc
3.	n-Propanol	Column 1:	92.29834	1.0000	g/100cc
4.	n-Propanol	Column 2:	89.49181	1.0000	g/100cc