VERMONT FORENSIC LABORATORY

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Certificate of Analysis of DataMaster Certification Solution

On 10/25/2013, an ethanol solution was prepared by Rebecca Mead for use as a DataMaster Certification solution. The solution was prepared per standard laboratory practice and assigned the lot number 13-18-080 and an expiration date of 10/25/2014.

On 10/28/2013 and 10/31/2013, the solution was analyzed against calibration VFL10282013 and VFL10312013. Analysis of the solution was performed using headspace gas chromatography. The instrument was calibrated prior to analyses. It was found to have met required quality assurance performance specifications and was operating properly. Quality checks throughout the analytical process demonstrated that the instrument continued to operate properly.

This solution is certified as presenting 0.080 g/210L simulated breath ethanol concentration and approved for use as a DataMaster Certification solution.

Dated at Waterbury, Vermont on Friday, November 01, 2013.

Amanda Bolduc

0.08 Certification Solution 5L
Lot # 13-18-080
Prepared 10/25/2013 by RLM
Exp 10/25/2014

ALB CAL VFL10282013
RLM/ALB Vials
Analyzed on 10/28/2013

0.0806	ALB
0.0820	
0.0798	
0.0818	
0.0797	
0.0803	
0.0784	
0.0787	RLM
0.0772	
0.0797	
0.0770	
0.0792	
0.0776	
0.0798	

Ave. = 0.0794
Std Dev. = 0.0015
Range = 0.0770 - 0.0820

ALB CAL VFL10312013
RLM/ALB Vials
Analyzed on 10/31/2013

0.0824	alb
0.0809	
0.0800	
0.0817	
0.0805	
0.0822	
0.0807	
0.0802	rlm
0.0787	
0.0803	
0.0782	
0.0802	
0.0780	
0.0804	

Ave. = 0.0803
Std Dev. = 0.0013
Range = 0.0780 - 0.0824

Total Values from Both Runs

Average	Mean
0.0770	0.0770
0.0772	0.0772
0.0776	0.0776
0.0780	0.0780
0.0782	0.0782
0.0784	0.0784
0.0787	0.0787
0.0787	
0.0792	0.0792
0.0797	0.0797
0.0797	
0.0798	0.0798
0.0798	
0.0800	0.0800
0.0802	0.0802
0.0802	
0.0803	0.0803
0.0803	
0.0804	0.0804
0.0805	0.0805
0.0806	0.0806
0.0807	0.0807
0.0809	0.0809
0.0817	0.0817
0.0818	0.0818
0.0820	0.0820
0.0822	0.0822
0.0824	0.0824

Ave. = 0.0799
Avg Std Dev. = 0.0015
Mean = 0.0799
Mean Std Dev. = 0.0016
Range = 0.0770 - 0.0824
RPD = 6.76%

0.080
11/1/13

11/4/2013

Headspace Alcohol Analysis Standards Coversheet

Analyst: AeB Date: 10/28/13

TLCA 11/4/2013

Calibration Standards:

Lot ID: ES-09262013 Preparation Date: 09/26/2013 Expiration Date: 12/26/2013

	Standard A	Standard B	Standard C	Standard D	Standard E	Calibration Check
% Ethanol (w/v)	0.006	0.025	0.082	0.201	0.411	0.082
Acceptance Range (± 10%)	0.007	0.028	0.090	0.221	0.452	0.090
	0.005	0.023	0.074	0.181	0.370	0.074

Control Sample:

Sample	Source	Lot number	Target Value	Acceptance Range	
Aqueous	Cerilliant	FN021111-03	0.080	0.072	0.088

Calibration and Control Sample Data:

Vial No.	Sample Identification		Result	In Range?	Comments
1	Blank		<0.005	Y N	
2	Compound Retention Times:			N/A	
		Acetaldehyde	1.92		
		Methanol	2.01		
		Ethanol	2.65		
		Acetone	3.06		
		Isopropanol	3.19		
		T- butanol	3.63		
		n-propanol	4.43		
3	Standard A		0.006	Y N	
4	Standard B		0.024	Y N	
5	Standard C		0.081	Y N	
6	Standard D		0.198	Y N	
7	Standard E		0.413	Y N	
8	Aqueous QC	10/28/13	~~0.0797~~	Y N	
9	Aqueous QC		0.0802	Y N	$\bar{x}$ = 0.080 100%

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File Name = C:\Alcohol Data\VFL10282013\VFL10282013.SEQ
Version = 1
File Date = 10/28/2013 10:21:14 AM

Entry #	Raw File Name	Method File Name	Sample Name	Sample Wt.	Int. Std. Amount
1	VFL10282013.0001.raw	Blood Alc temp VFL.MET	Blank	1.00	1.00
2	VFL10282013.0002.raw	Blood Alc temp VFL.MET	TMX	1.00	1.00
3	VFL10282013.0003.raw	Blood Alc temp VFL.MET	STD A	1.00	1.00
4	VFL10282013.0004.raw	Blood Alc temp VFL.MET	STD B	1.00	1.00
5	VFL10282013.0005.raw	Blood Alc temp VFL.MET	STD C	1.00	1.00
6	VFL10282013.0006.raw	Blood Alc temp VFL.MET	STD D	1.00	1.00
7	VFL10282013.0007.raw	Blood Alc temp VFL.MET	STD E	1.00	1.00
8	VFL10282013.0008.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
9	VFL10282013.0009.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
10	VFL10282013.0010.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
11	VFL10282013.0011.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
12	VFL10282013.0012.raw	simsoln.met	0.08 ALB	1.00	1.00
13	VFL10282013.0013.raw	simsoln.met	0.08 ALB	1.00	1.00
14	VFL10282013.0014.raw	simsoln.met	0.08 ALB	1.00	1.00
15	VFL10282013.0015.raw	simsoln.met	0.08 ALB	1.00	1.00
16	VFL10282013.0016.raw	simsoln.met	0.08 ALB	1.00	1.00
17	VFL10282013.0017.raw	simsoln.met	0.08 ALB	1.00	1.00
18	VFL10282013.0018.raw	simsoln.met	0.08 ALB	1.00	1.00
19	VFL10282013.0019.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
20	VFL10282013.0020.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
21	VFL10282013.0021.raw	simsoln.met	0.08 RLM	1.00	1.00
22	VFL10282013.0022.raw	simsoln.met	0.08 RLM	1.00	1.00
23	VFL10282013.0023.raw	simsoln.met	0.08 RLM	1.00	1.00
24	VFL10282013.0024.raw	simsoln.met	0.08 RLM	1.00	1.00
25	VFL10282013.0025.raw	simsoln.met	0.08 RLM	1.00	1.00
26	VFL10282013.0026.raw	simsoln.met	0.08 RLM	1.00	1.00
27	VFL10282013.0027.raw	simsoln.met	0.08 RLM	1.00	1.00
28	VFL10282013.0028.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
29	VFL10282013.0029.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
30	VFL10282013.0030.raw	simsoln.met	0.10 ALB	1.00	1.00
31	VFL10282013.0031.raw	simsoln.met	0.10 ALB	1.00	1.00
32	VFL10282013.0032.raw	simsoln.met	0.10 ALB	1.00	1.00
33	VFL10282013.0033.raw	simsoln.met	0.10 ALB	1.00	1.00
34	VFL10282013.0034.raw	simsoln.met	0.10 ALB	1.00	1.00
35	VFL10282013.0035.raw	simsoln.met	0.10 ALB	1.00	1.00
36	VFL10282013.0036.raw	simsoln.met	0.10 ALB	1.00	1.00
37	VFL10282013.0037.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
38	VFL10282013.0038.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
39	VFL10282013.0039.raw	simsoln.met	0.10 RLM	1.00	1.00
40	VFL10282013.0040.raw	simsoln.met	0.10 RLM	1.00	1.00
41	VFL10282013.0041.raw	simsoln.met	0.10 RLM	1.00	1.00
42	VFL10282013.0042.raw	simsoln.met	0.10 RLM	1.00	1.00
43	VFL10282013.0043.raw	simsoln.met	0.10 RLM	1.00	1.00
44	VFL10282013.0044.raw	simsoln.met	0.10 RLM	1.00	1.00
45	VFL10282013.0045.raw	simsoln.met	0.10 RLM	1.00	1.00
46	VFL10282013.0046.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
47	VFL10282013.0047.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
48	VFL10282013.0048.raw	simsoln.met	0.40 ALB	1.00	1.00
49	VFL10282013.0049.raw	simsoln.met	0.40 ALB	1.00	1.00
50	VFL10282013.0050.raw	simsoln.met	0.40 ALB	1.00	1.00
51	VFL10282013.0051.raw	simsoln.met	0.40 ALB	1.00	1.00
52	VFL10282013.0052.raw	simsoln.met	0.40 ALB	1.00	1.00
53	VFL10282013.0053.raw	simsoln.met	0.40 ALB	1.00	1.00
54	VFL10282013.0054.raw	simsoln.met	0.40 ALB	1.00	1.00
55	VFL10282013.0055.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
56	VFL10282013.0056.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
57	VFL10282013.0057.raw	simsoln.met	0.40 RLM	1.00	1.00
58	VFL10282013.0058.raw	simsoln.met	0.40 RLM	1.00	1.00
59	VFL10282013.0059.raw	simsoln.met	0.40 RLM	1.00	1.00
60	VFL10282013.0060.raw	simsoln.met	0.40 RLM	1.00	1.00
61	VFL10282013.0061.raw	simsoln.met	0.40 RLM	1.00	1.00
62	VFL10282013.0062.raw	simsoln.met	0.40 RLM	1.00	1.00

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Chrom Perfect Sequence File

Entry #	Raw File Name	Method File Name	Sample Name	Sample Wt.	Int. Std. Amount
63	VFL10282013.0063.raw	simsoln.met	0.40 RLM	1.00	1.00
64	VFL10282013.0064.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
65	VFL10282013.0065.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00

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File Name: C:\Methods\VFL10282013.CAL
Version: 7

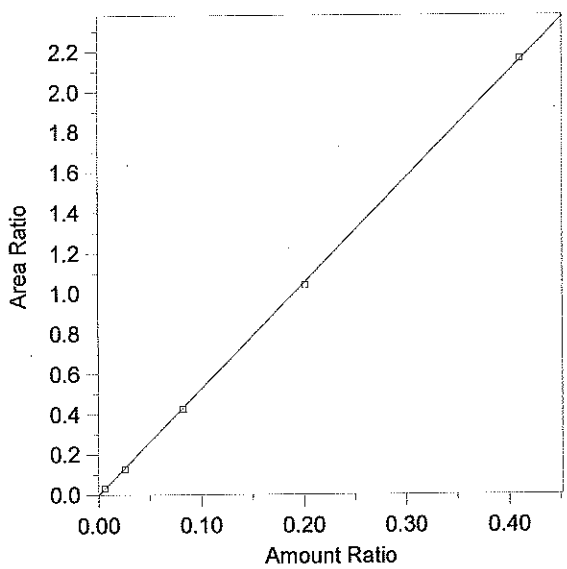
Creator:
Description:
Reason for change:

Internal standard calibration
No injection volume correction
No sample weight correction
Area reject threshold: 1500
Reference peak area reject threshold: 0
Amount units:
No default component

Method of calculating data point averages: Equal weight for all updates
No calibration update report

All levels are normal data points.

3 Ethanol



Expected retention time:	2.655 minutes
Search window:	0.1 minutes
Internal standard component:	7 (n-Propanol)
No retention time reference component	
Group number:	0
High alarm limit:	0
Low alarm limit:	0
Component constant:	0

Single peak quantification by area

Y = 5.238385 X + 0

Linear fit with equal weighting, forced to origin

Coefficient of determination:	0.9998752
Average error:	1.836%
Average CF:	5.1692
RSD:	2.518%

Level	Amount	Response	Cal Factor	Error, %	Amount Ratio	Response Ratio	Source	Date and time
1	(0.091)	(85146)	--	--	0.091	85146	Manual	8/12/2013 4:03:34 PM
2	0.0063	6884.689	1092808	0.878	0.0063	3.329168E-02	C:\Alcohol Data\VFL10282013\VFL10282013.0003.BND	10/28/2013 11:30:04 AM
3	0.0254	26516.83	1043970	-5.415	0.0254	0.1258502	C:\Alcohol Data\VFL10282013\VFL10282013.0004.BND	10/28/2013 11:46:37 AM
4	0.0822	83406.41	1014677	-1.020	0.0822	0.4262029	C:\Alcohol Data\VFL10282013\VFL10282013.0005.BND	10/28/2013 12:00:22 PM
5	0.2012	220925.7	1098040	-1.457	0.2012	1.038607	C:\Alcohol Data\VFL10282013\VFL10282013.0006.BND	10/28/2013 12:17:56 PM
6	0.4112	401071.6	975368.7	0.410	0.4112	2.162856	C:\Alcohol Data\VFL10282013\VFL10282013.0007.BND	10/28/2013 12:32:57 PM

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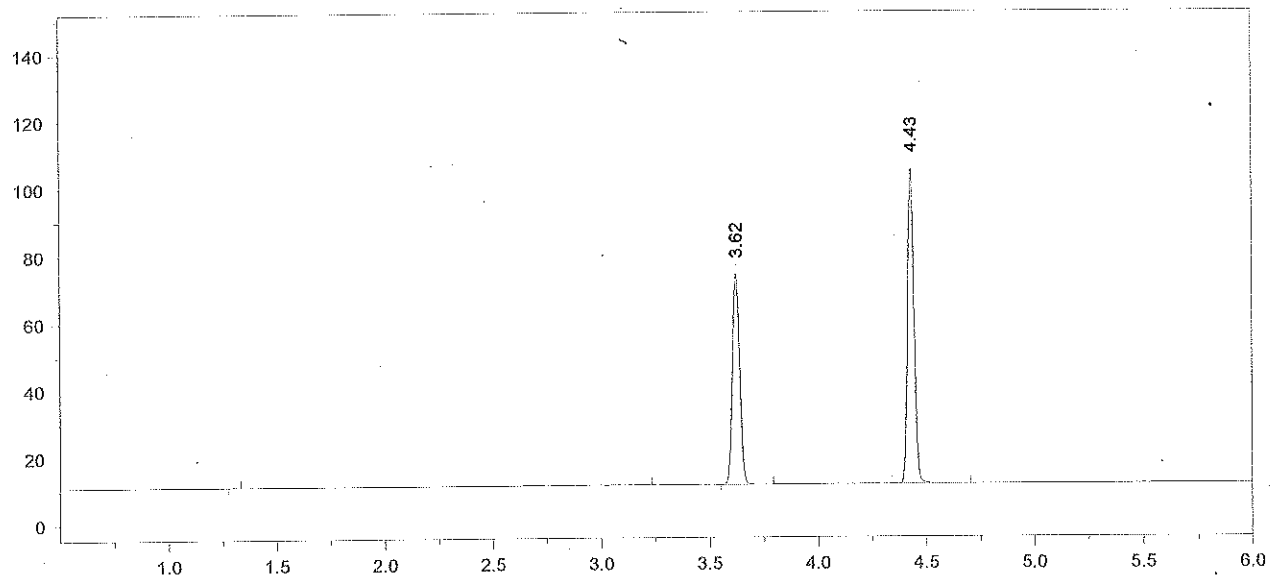
Chrom Perfect Chromatogram Report



Format File Name = AlcoholVFL.FMT

Today's Date = 10/28/2013
Today's Time = 2:19:39 PM
Bound File Name = VFL10282013.0001.RAW
Sample Name = Blank
Date Taken = 10/28/2013 10:57:05 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10282013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	3.62	t-Butanol	145441	0.9603
4	4.43	n-Propanol	197451	1.0000

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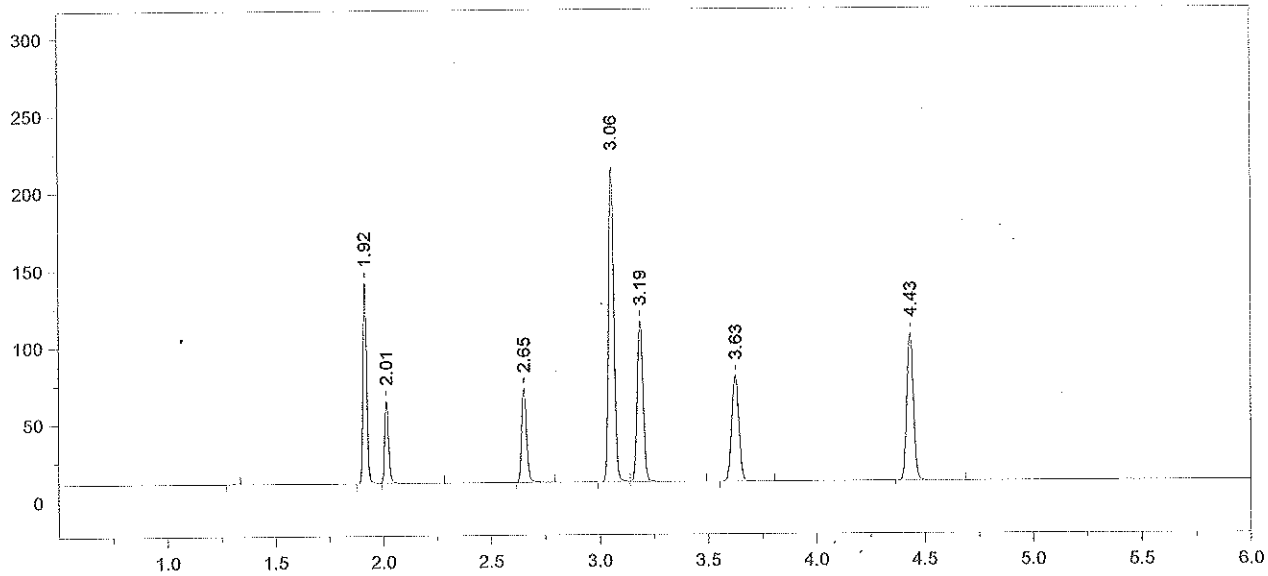
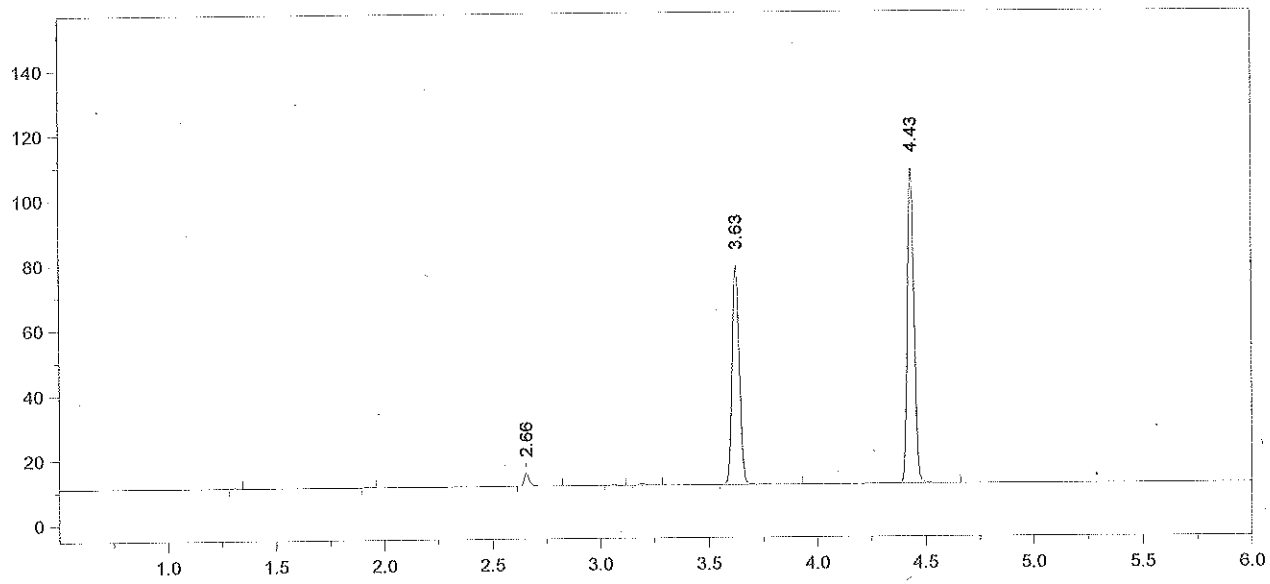


Format File Name = AlcoholVFL.FMT

Today's Date = 10/28/2013
Today's Time = 2:19:47 PM
Bound File Name = VFL10282013.0002.RAW
Sample Name = TMX
Date Taken = 10/28/2013 11:15:03 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10282013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	1.92	Acetaldehyde	153801	0.0520
3	2.01	Methanol	68956	0.1370
4	2.65	Ethanol	94765	0.0888
5	3.06	Acetone	350309	0.0940
6	3.19	Isopropanol	196433	0.0850
7	3.63	t-Butanol	158737	1.0156
8	4.43	n-Propanol	203774	1.0000

13-18-080 7 [illegible]

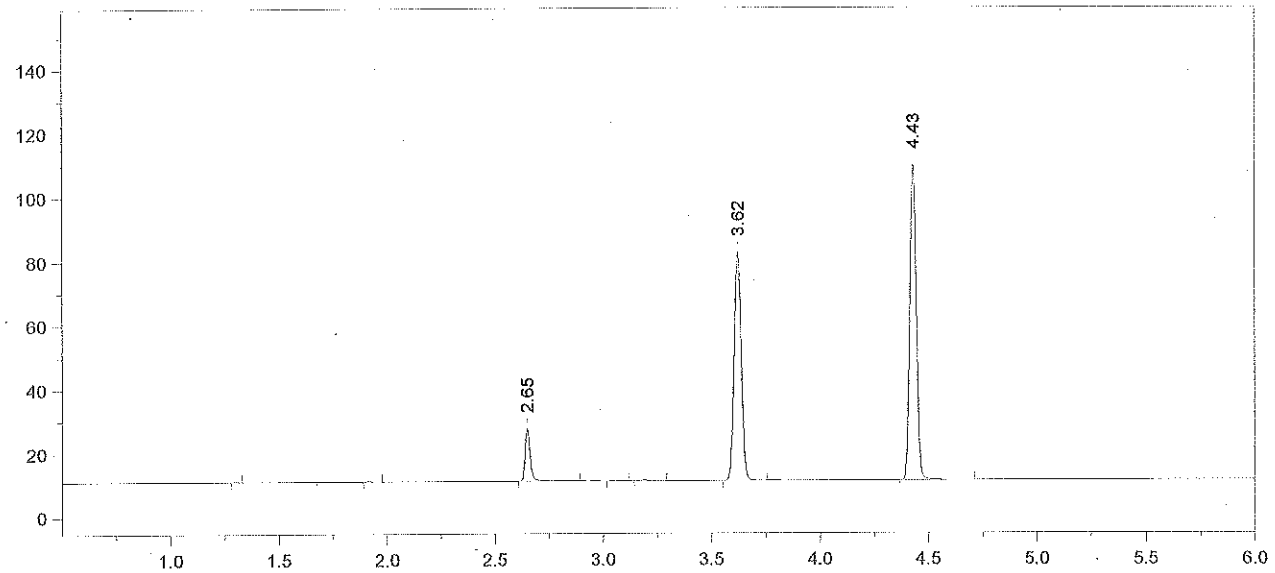


Format File Name = AlcoholVFL.FMT

Today's Date = 10/28/2013
Today's Time = 2:19:53 PM
Bound File Name = VFL10282013.0003.RAW
Sample Name = STD A
Date Taken = 10/28/2013 11:29:54 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10282013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	06885	0.0064
6	3.63	t-Butanol	156057	0.9838
7	4.43	n-Propanol	206799	1.0000

13-18-080 8 A & B

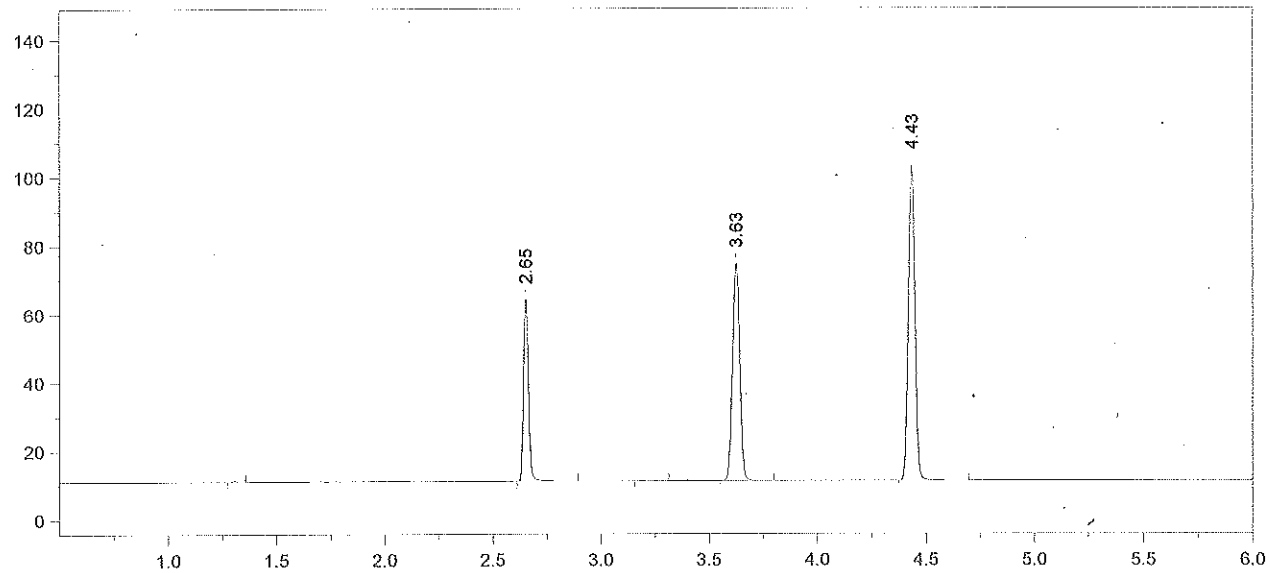


Format File Name = AlcoholVFL.FMT

Today's Date = 10/28/2013
Today's Time = 2:19:59 PM
Bound File Name = VFL10282013.0004.RAW
Sample Name = STD B
Date Taken = 10/28/2013 11:46:28 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10282013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	26517	0.0240
6	3.62	t-Butanol	164957	1.0207
7	4.43	n-Propanol	210702	1.0000

13-18-080 9 Std B

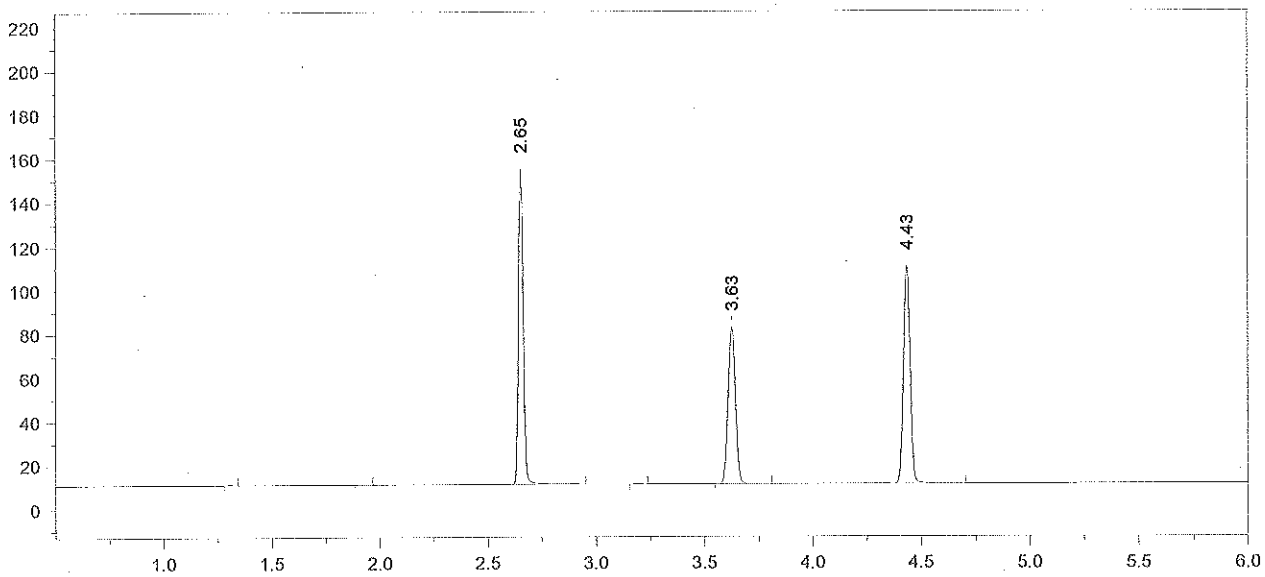


Format File Name = AlcoholVFL.FMT

Today's Date = 10/28/2013
Today's Time = 2:20:05 PM
Bound File Name = VFL10282013.0005.RAW
Sample Name = STD C
Date Taken = 10/28/2013 12:00:14 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10282013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	83406	0.0814
4	3.63	t-Butanol	146892	0.9786
5	4.43	n-Propanol	195697	1.0000

13-18-090 10 AWB



Format File Name = AlcoholVFL.FMT

Today's Date = 10/28/2013
Today's Time = 2:20:10 PM
Bound File Name = VFL10282013.0006.RAW
Sample Name = STD D
Date Taken = 10/28/2013 12:17:52 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10282013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	220926	0.1983
5	3.63	t-Butanol	165916	1.0169
6	4.43	n-Propanol	212714	1.0000

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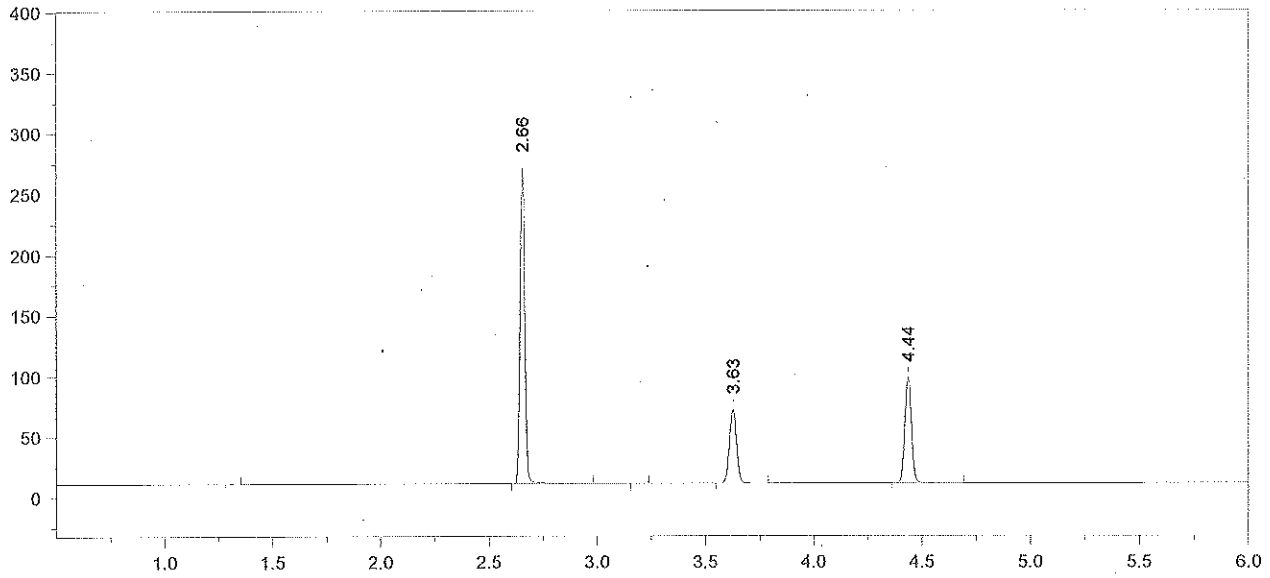
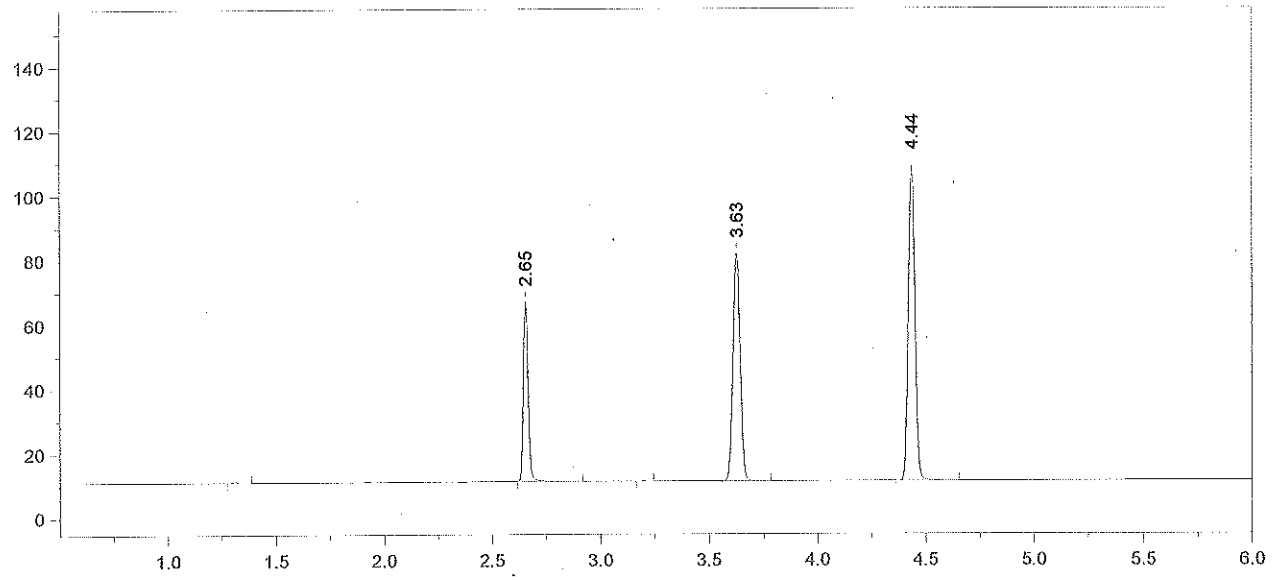


Format File Name = AlcoholVFL.FMT

Today's Date = 10/28/2013
Today's Time = 2:20:16 PM
Bound File Name = VFL10282013.0007.RAW
Sample Name = STD E
Date Taken = 10/28/2013 12:32:48 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10282013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	401072	0.4129
4	3.63	t-Butanol	140003	0.9843
5	4.44	n-Propanol	185436	1.0000

13 18-1080 12 Ale 6



Format File Name = AlcoholVFL.FMT

Today's Date = 10/28/2013
Today's Time = 12:49:18 PM
Bound File Name = VFL10282013.0008.RAW
Sample Name = AQ QC
Date Taken = 10/28/2013 12:49:14 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10282013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	86716	0.0797
4	3.63	t-Butanol	163270	1.0254
5	4.44	n-Propanol	207589	1.0000

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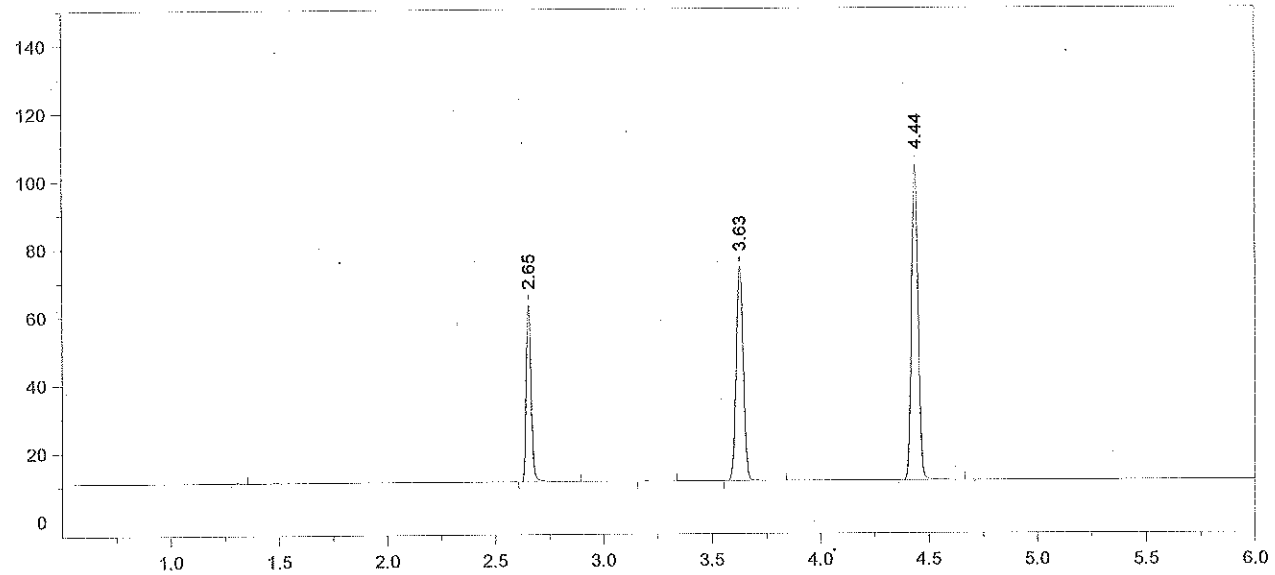

Format File Name = AlcoholVFL.FMT

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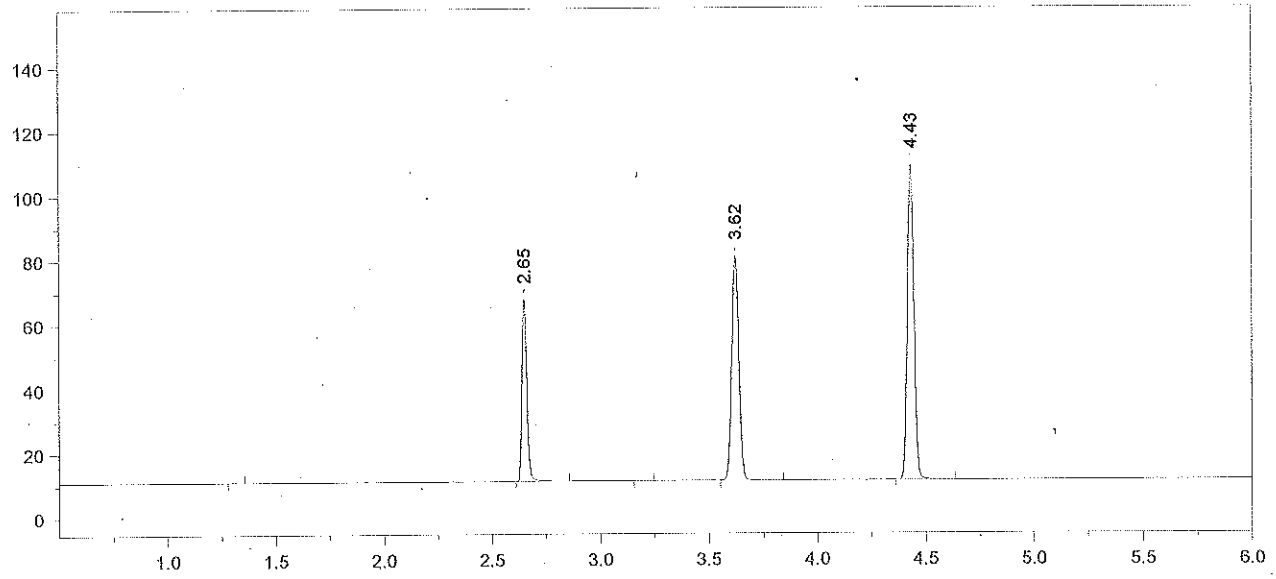
Today's Time = 1:03:12 PM
Bound File Name = VFL10282013.0009.RAW
Sample Name = AQ QC
Date Taken = 10/28/2013 1:03:02 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10282013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	82452	0.0802
4	3.63	t-Butanol	146344	0.9718
5	4.44	n-Propanol	196333	1.0000

Avg vial 8 + 9 = 0.080
100%
10/28/13
[illegible]

13 18-080 14 [illegible]

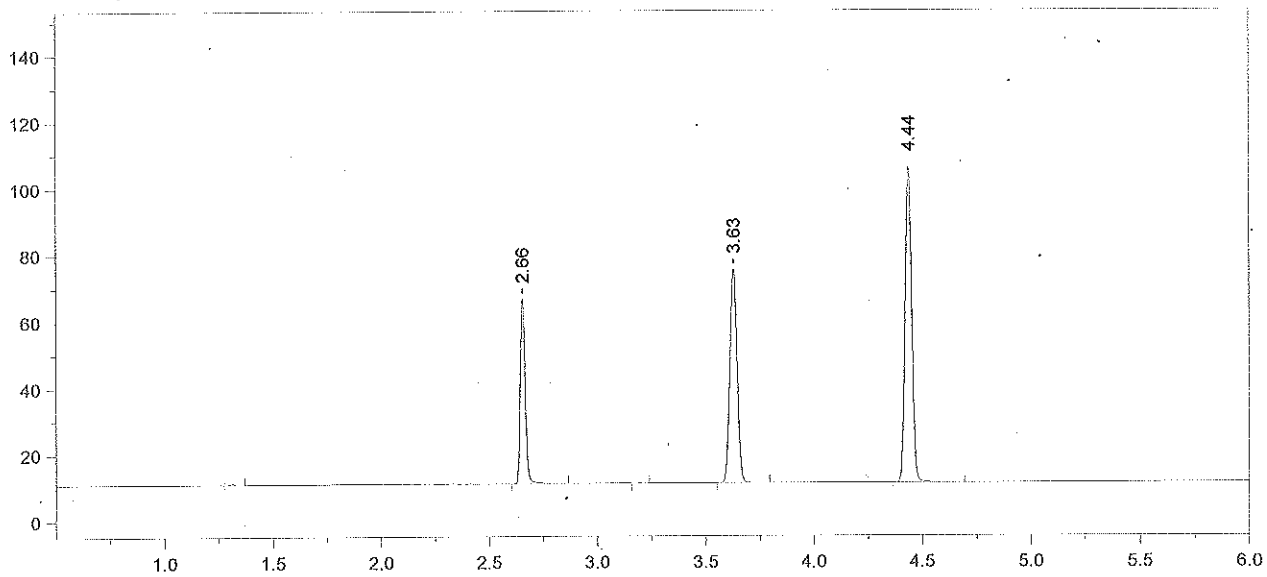


Format File Name = AlcoholVFL.FMT

Today's Date = 10/28/2013
Today's Time = 1:19:03 PM
Bound File Name = VFL10282013.0010.RAW
Sample Name = CCS
Date Taken = 10/28/2013 1:18:58 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10282013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	87833	0.0807
4	3.62	t-Butanol	161511	1.0139
5	4.43	n-Propanol	207684	1.0000

13-18-087 15



Format File Name = AlcoholVFL.FMT

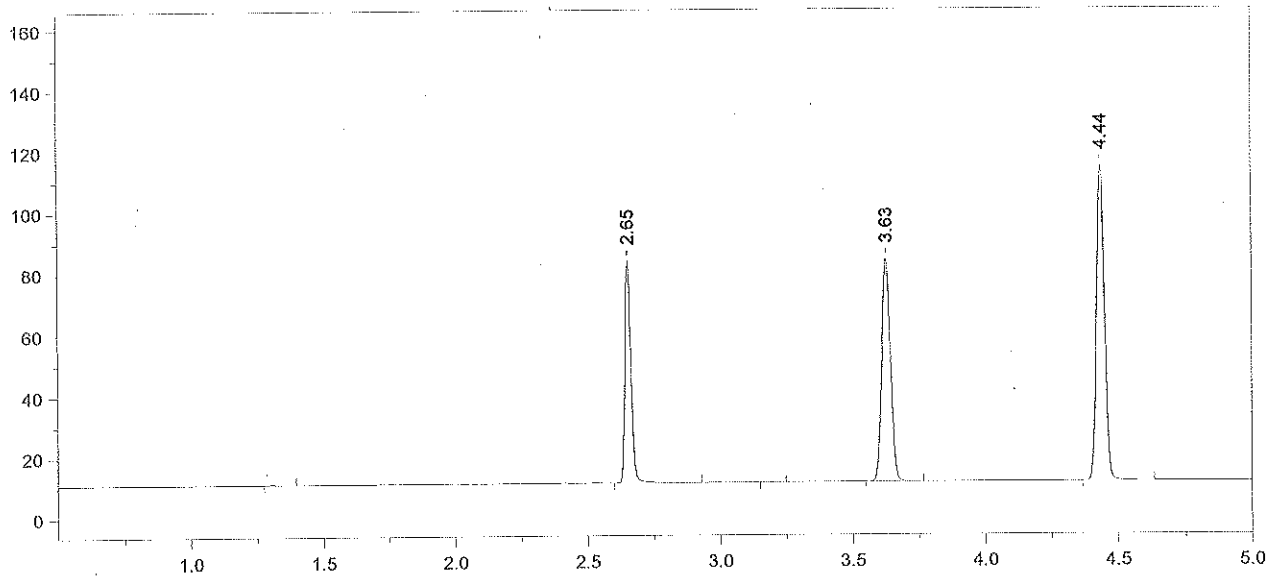
Today's Date = 10/28/2013
Today's Time = 1:34:37 PM
Bound File Name = VFL10282013.0011.RAW
Sample Name = CCS
Date Taken = 10/28/2013 1:34:27 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10282013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	87211	0.0826
4	3.63	t-Butanol	148630	0.9608
5	4.44	n-Propanol	201675	1.0000

Avg vials 10 + 11 = 0.081

10/28/13
[illegible]

13-18-080 16 [illegible]

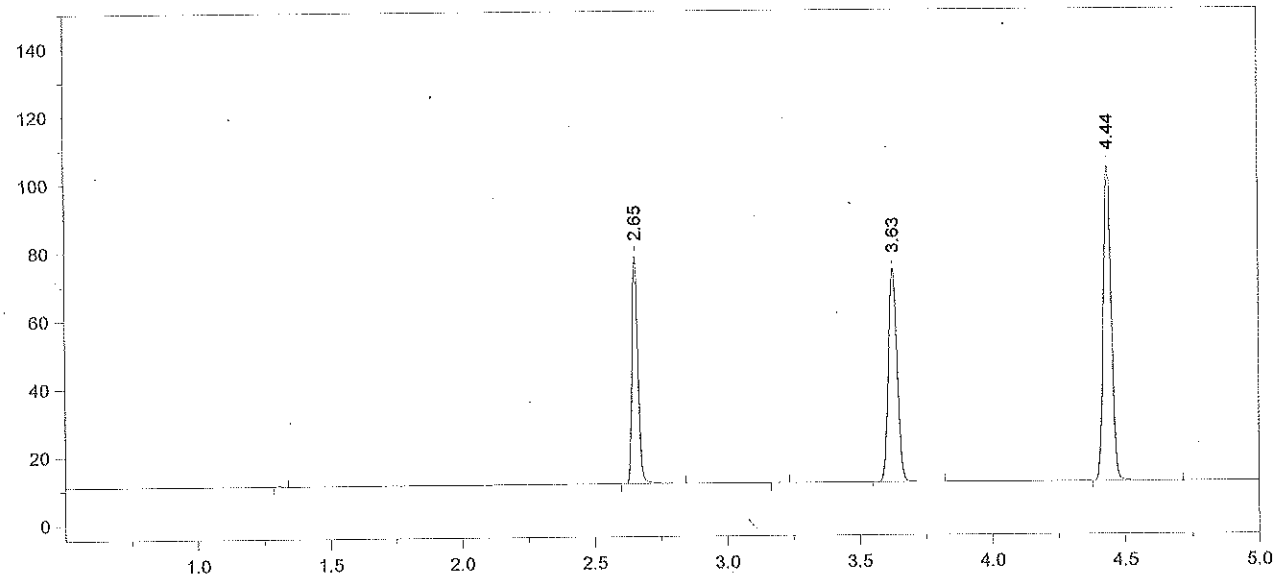


Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/29/2013
Today's Time = 10:00:20 AM
Bound File Name = VFL10282013.0012.RAW
Sample Name = 0.08 ALB
Date Taken = 10/28/2013 1:48:50 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10282013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	112950	0.0987	0.0806
4	3.63	t-Butanol	168814	1.0075	0.8223
5	4.44	n-Propanol	218446	1.0000	0.8162

13-18-080 17



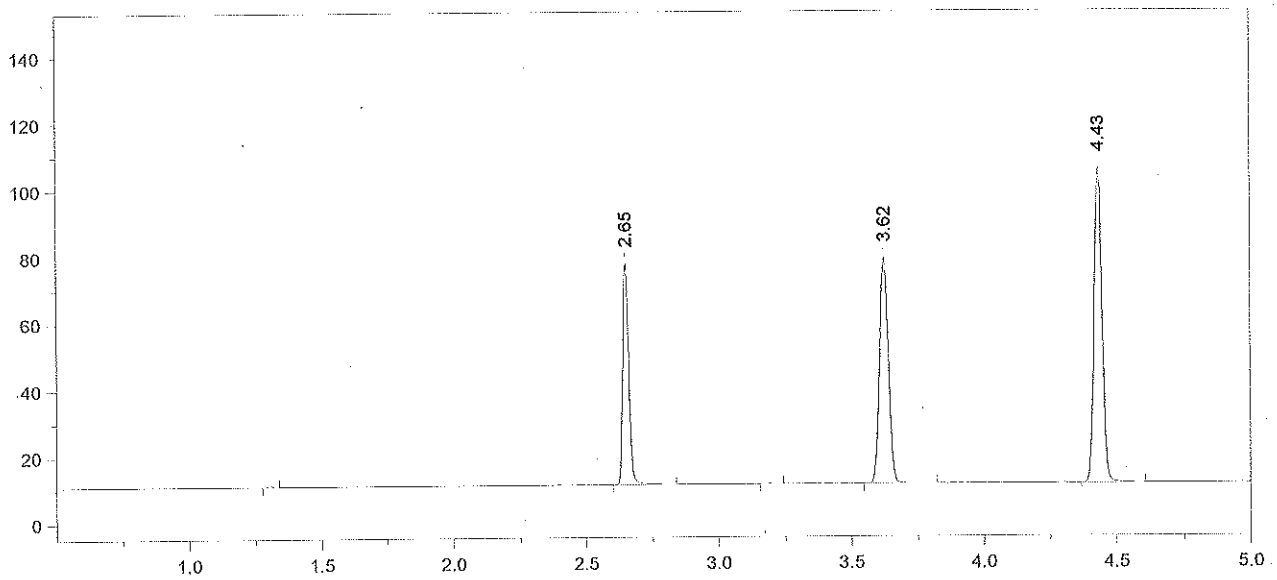
Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/29/2013
Today's Time = 10:00:26 AM
Bound File Name = VFL10282013.0013.RAW
Sample Name = 0.08 ALB
Date Taken = 10/28/2013 2:04:53 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10282013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	103695	0.1004	0.0820
4	3.63	t-Butanol	145390	0.9617	0.7850
5	4.44	n-Propanol	197098	1.0000	0.8162

13-18-080 18 [illegible]

Chrom Perfect Chromatogram Report



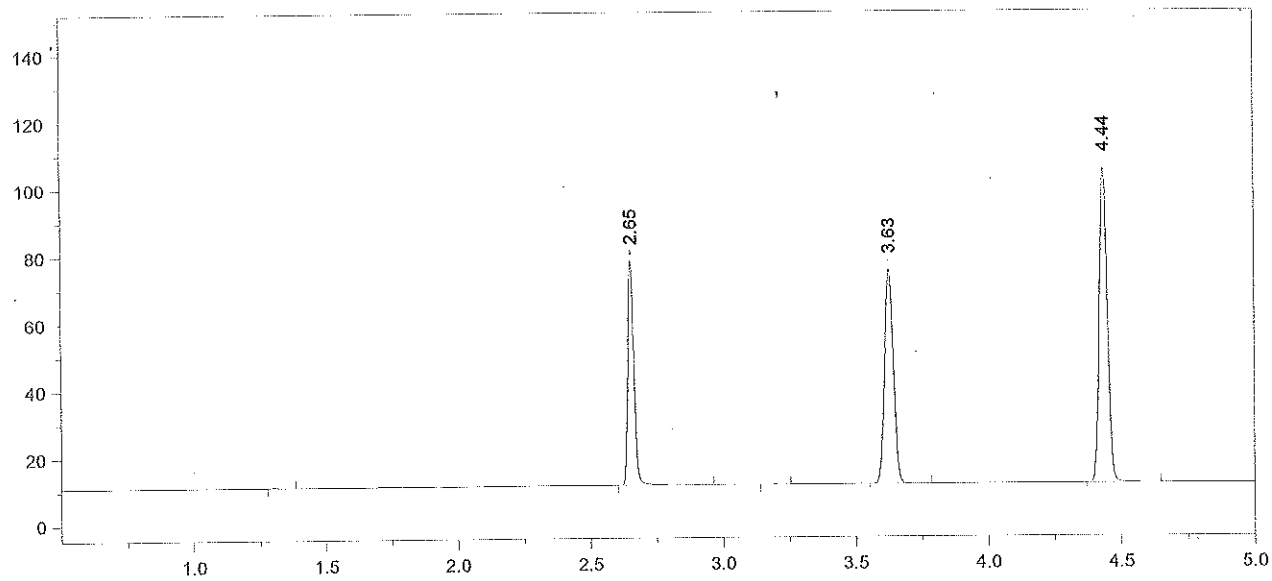
Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/29/2013
Today's Time = 10:00:31 AM
Bound File Name = VFL10282013.0014.RAW
Sample Name = 0.08 ALB
Date Taken = 10/28/2013 2:20:45 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10282013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	102857	0.0978	0.0798
4	3.62	t-Butanol	156709	1.0179	0.8308
5	4.43	n-Propanol	200722	1.0000	0.8162

13-18-080 19 [illegible]

Chrom Perfect Chromatogram Report

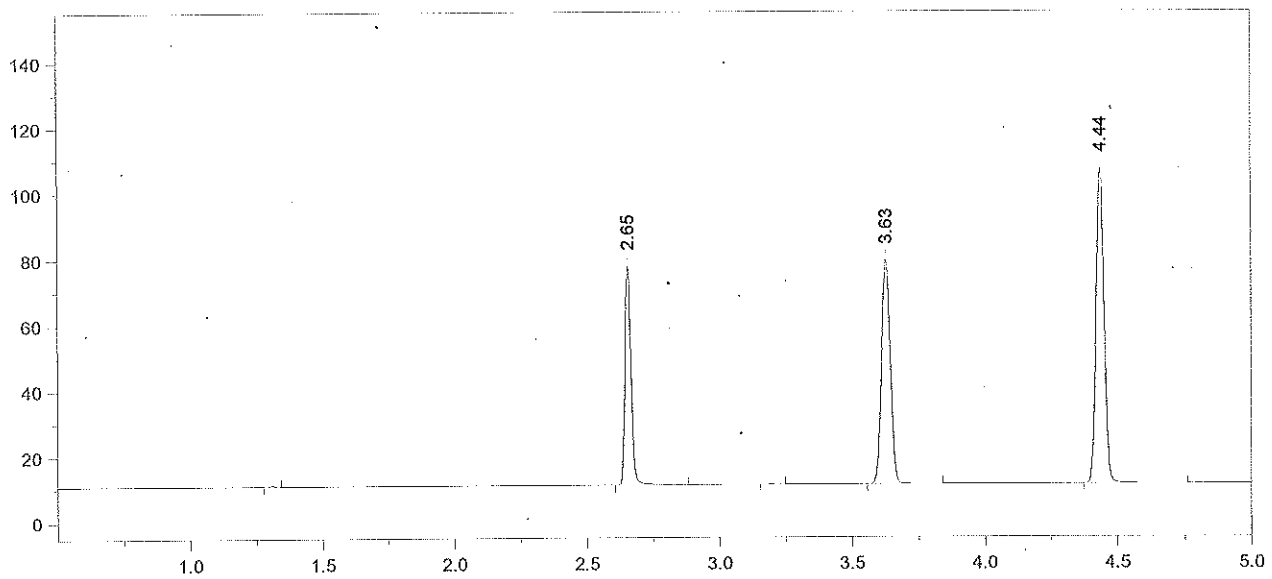


Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/29/2013
Today's Time = 10:00:38 AM
Bound File Name = VFL10282013.0015.RAW
Sample Name = 0.08 ALB
Date Taken = 10/28/2013 2:35:10 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10282013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	104942	0.1003	0.0818
4	3.63	t-Butanol	147816	0.9645	0.7872
5	4.44	n-Propanol	199811	1.0000	0.8162

13-19-080 20 [illegible]

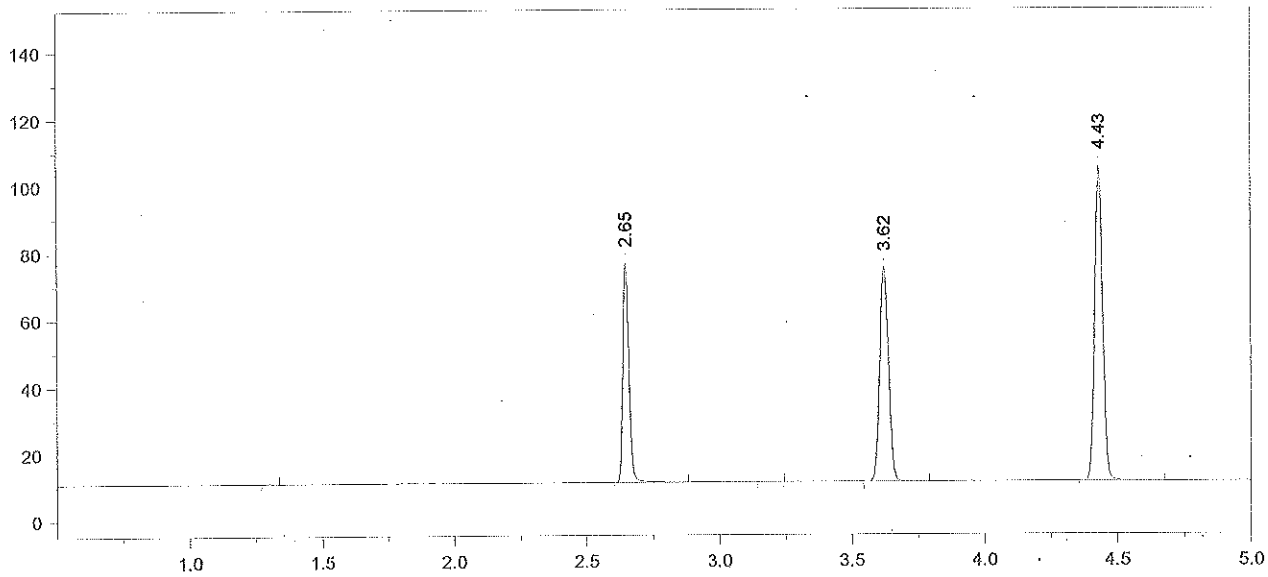


Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/29/2013
Today's Time = 10:00:45 AM
Bound File Name = VFL10282013.0016.RAW
Sample Name = 0.08 ALB
Date Taken = 10/28/2013 2:52:09 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10282013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	104159	0.0976	0.0797
4	3.63	t-Butanol	158049	1.0115	0.8256
5	4.44	n-Propanol	203717	1.0000	0.8162

13-18-080 21 AeB

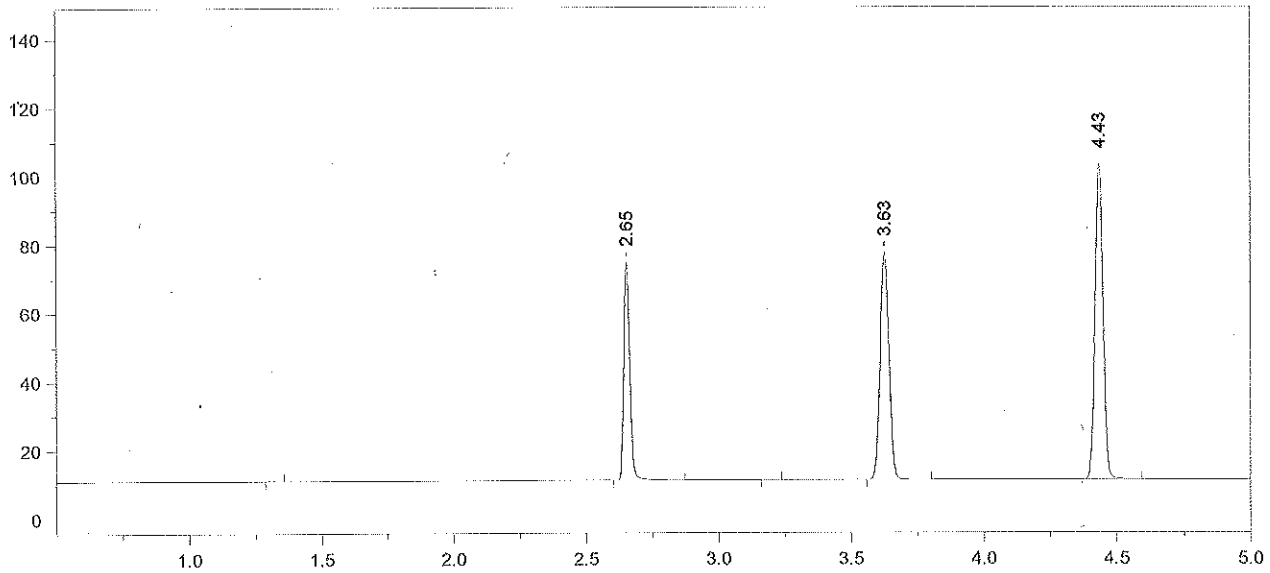


Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/29/2013
Today's Time = 10:00:52 AM
Bound File Name = VFL10282013.0017.RAW
Sample Name = 0.08 ALB
Date Taken = 10/28/2013 3:05:22 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10282013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	103045	0.0984	0.0803
4	3.62	t-Butanol	148893	0.9707	0.7923
5	4.43	n-Propanol	199985	1.0000	0.8162

13-18-080 22



Format File Name = simsoln-JFH.met.FMT

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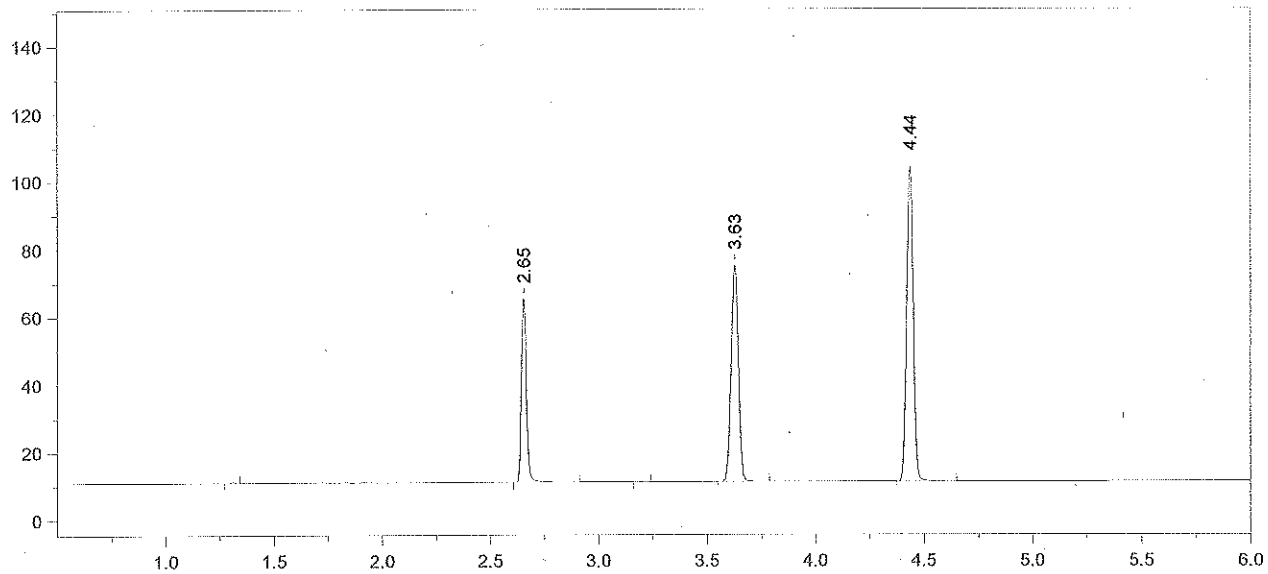
Today's Time = 10:00:58 AM
Bound File Name = VFL10282013.0018.RAW
Sample Name = 0.08 ALB
Date Taken = 10/28/2013 3:23:35 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10282013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	98630	0.0961	0.0784
4	3.63	t-Butanol	153704	1.0230	0.8349
5	4.43	n-Propanol	195896	1.0000	0.8162

13-18-080 23 Ale

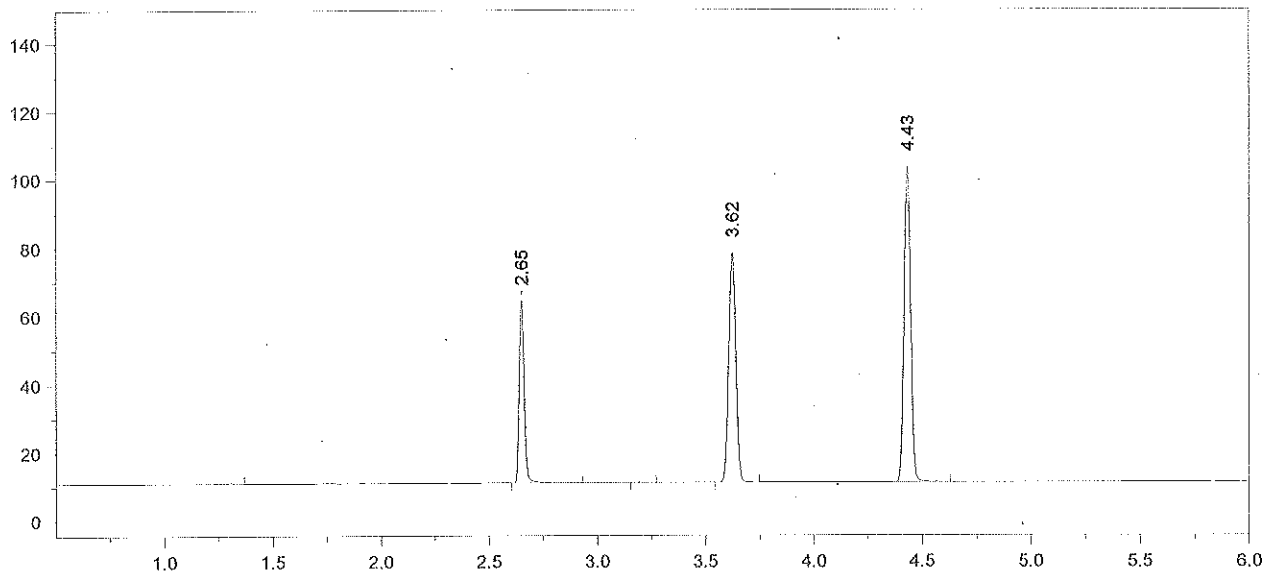


Format File Name = AlcoholVFL.FMT

Today's Date = 10/28/2013
Today's Time = 3:37:38 PM
Bound File Name = VFL10282013.0019.RAW
Sample Name = CCS
Date Taken = 10/28/2013 3:37:28 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10282013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	85271	0.0823
4	3.63	t-Butanol	147984	0.9760
5	4.44	n-Propanol	197681	1.0000

13-18-080 24



Format File Name = AlcoholVFL.FMT

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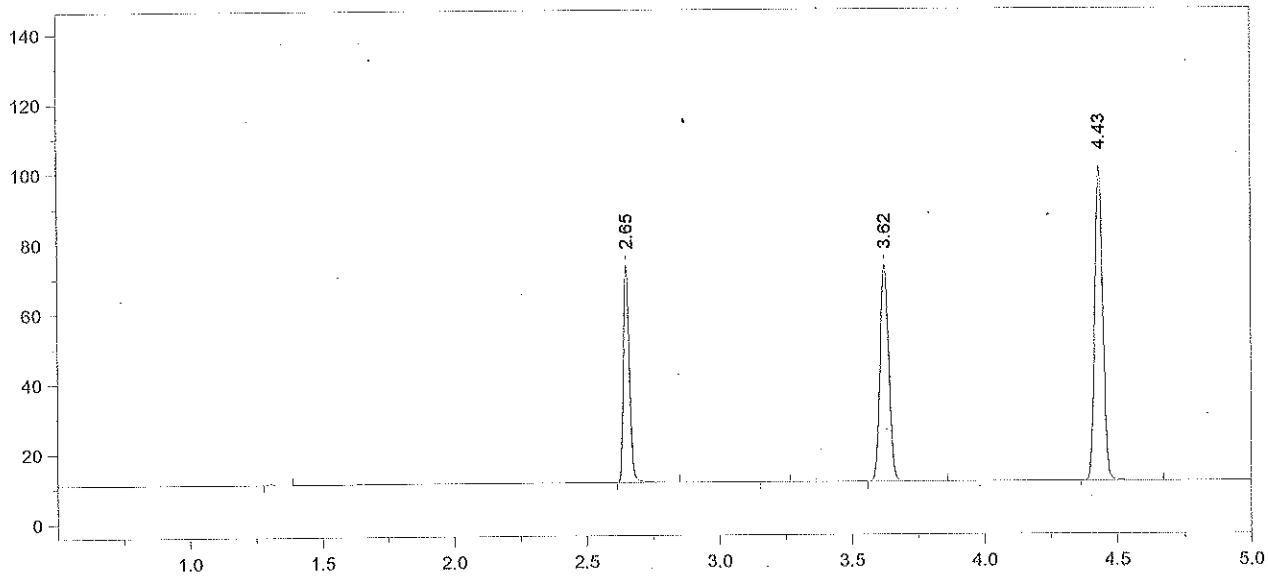
Today's Time = 3:55:07 PM
Bound File Name = VFL10282013.0020.RAW
Sample Name = CCS
Date Taken = 10/28/2013 3:55:02 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10282013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	83291	0.0809
4	3.62	t-Butanol	155016	1.0283
5	4.43	n-Propanol	196538	1.0000

Avg vials 19 + 20 = 0.081

10/29/13
dlB

13-18-080 25 dlB



Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/29/2013
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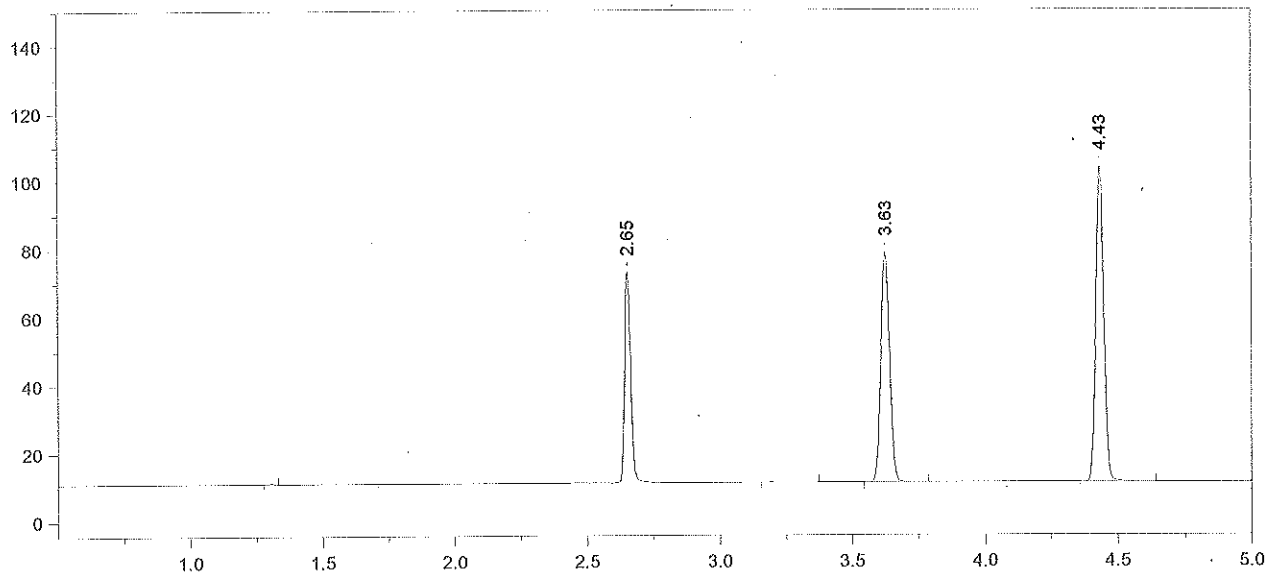
Sample Name = 0.08 RLM
Date Taken = 10/28/2013 4:08:50 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10282013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	96746	0.0964	0.0787
4	3.62	t-Butanol	143520	0.9764	0.7969
5	4.43	n-Propanol	191644	1.0000	0.8162

13-18-080 26

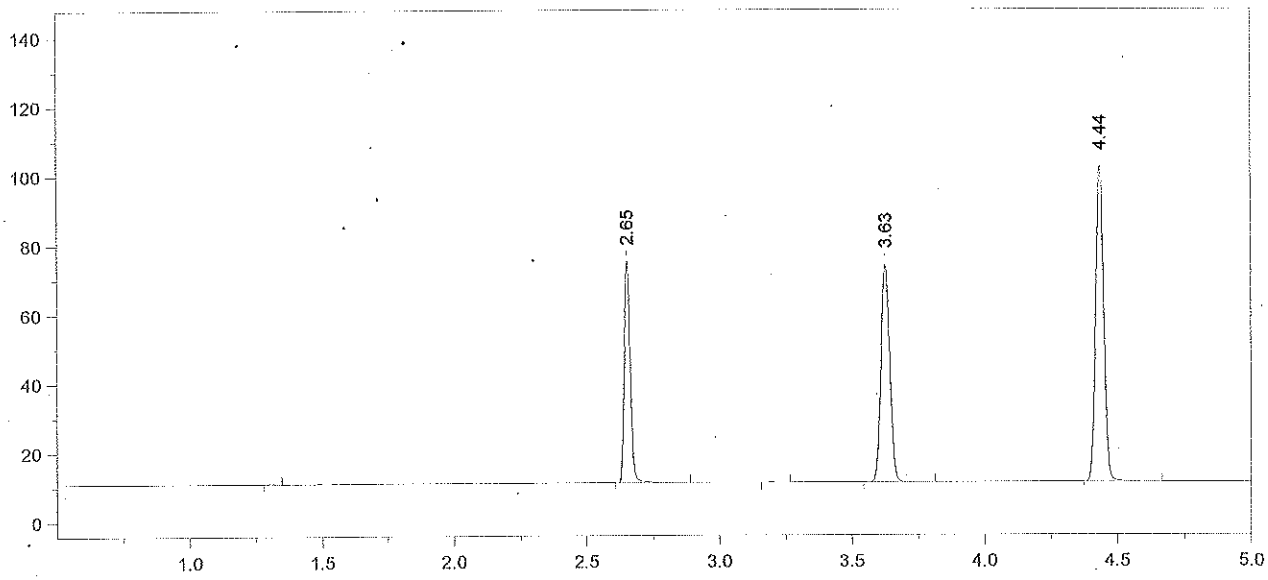


Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/29/2013
Today's Time = 10:01:10 AM
Bound File Name = VFL10282013.0022.RAW
Sample Name = 0.08 RLM
Date Taken = 10/28/2013 4:26:24 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10282013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	97580	0.0946	0.0772
4	3.63	t-Butanol	156674	1.0378	0.8471
5	4.43	n-Propanol	196818	1.0000	0.8162

13-18-080 27 8.3

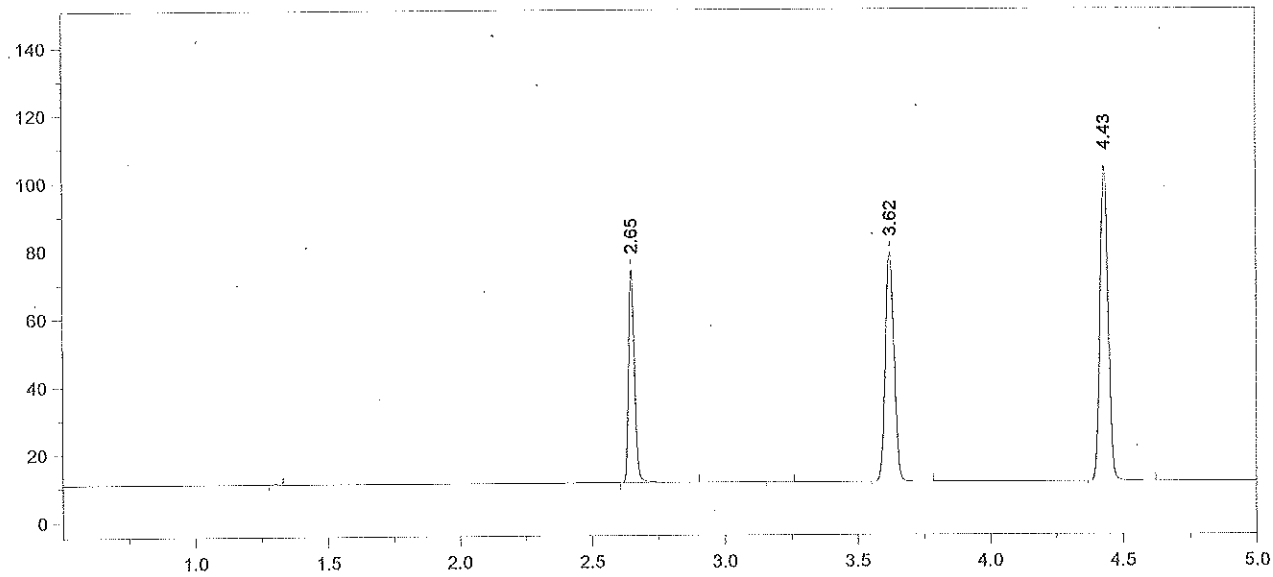


Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/29/2013
Today's Time = 10:01:17 AM
Bound File Name = VFL10282013.0023.RAW
Sample Name = 0.08 RLM
Date Taken = 10/28/2013 4:40:22 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10282013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	99684	0.0977	0.0797
4	3.63	t-Butanol	145662	0.9747	0.7955
5	4.44	n-Propanol	194843	1.0000	0.8162

13-18-080 28



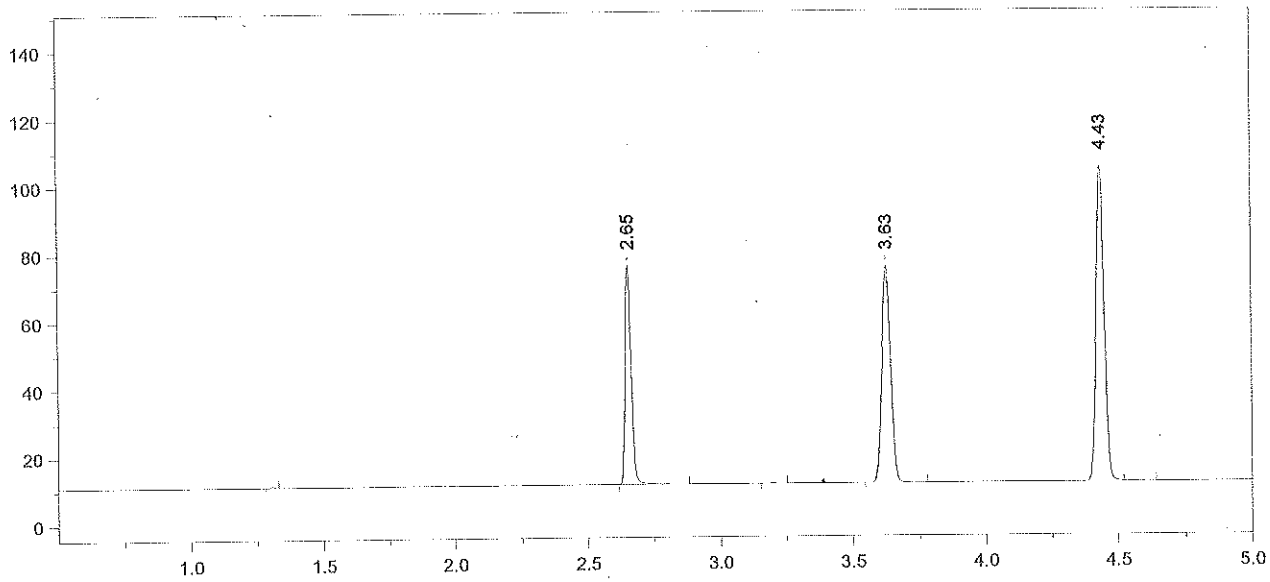
Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/29/2013
Today's Time = 10:01:23 AM
Bound File Name = VFL10282013.0024.RAW
Sample Name = 0.08 RLM
Date Taken = 10/28/2013 4:57:48 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10282013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	97584	0.0943	0.0770
4	3.62	t-Butanol	156997	1.0362	0.8457
5	4.43	n-Propanol	197534	1.0000	0.8162

13-18-080 29 RLB

Chrom Perfect Chromatogram Report

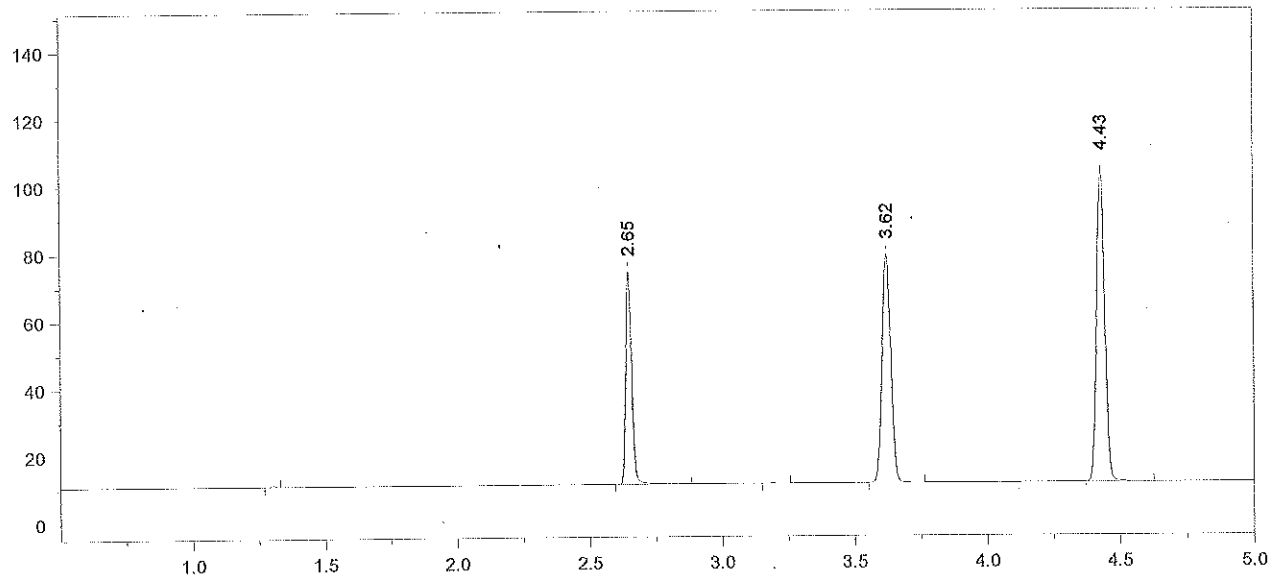


Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/29/2013
Today's Time = 10:01:29 AM
Bound File Name = VFL10282013.0025.RAW
Sample Name = 0.08 RLM
Date Taken = 10/28/2013 5:11:39 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10282013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	100835	0.0970	0.0792
4	3.63	t-Butanol	148348	0.9747	0.7956
5	4.43	n-Propanol	198419	1.0000	0.8162

13-18-080 30 [illegible]



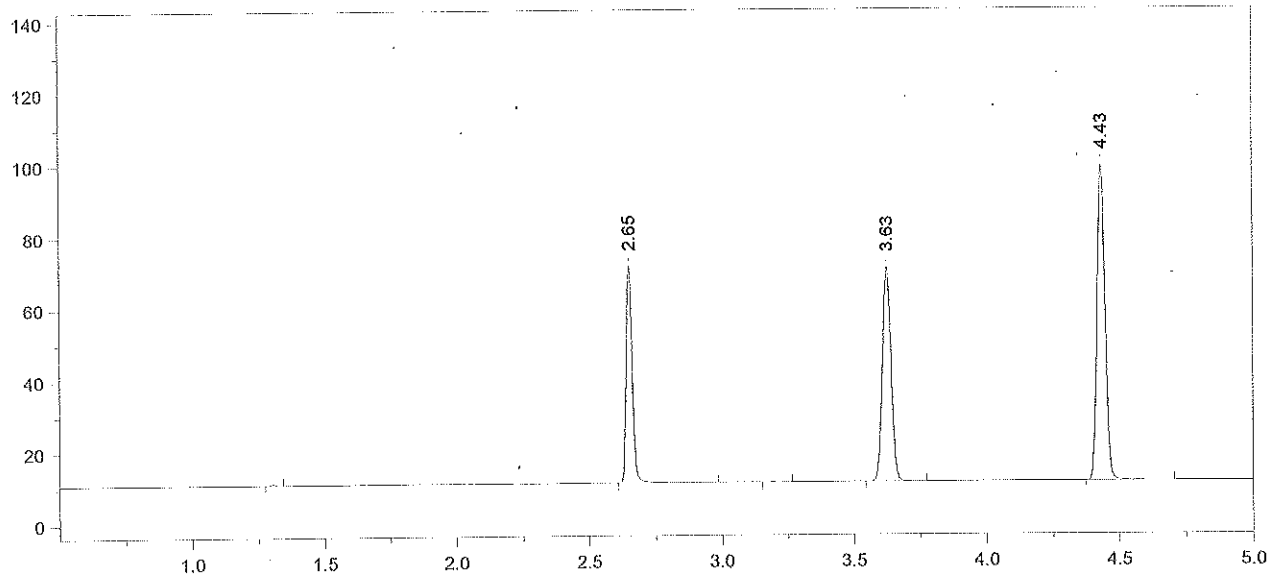
Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/29/2013
Today's Time = 10:01:34 AM
Bound File Name = VFL10282013.0026.RAW
Sample Name = 0.08 RLM
Date Taken = 10/28/2013 5:29:13 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10282013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	99038	0.0951	0.0776
4	3.62	t-Butanol	156760	1.0278	0.8389
5	4.43	n-Propanol	198854	1.0000	0.8162

13-18-080 31 Eto B

Chrom Perfect Chromatogram Report



Format File Name = simsoln-JFH.met.FMT

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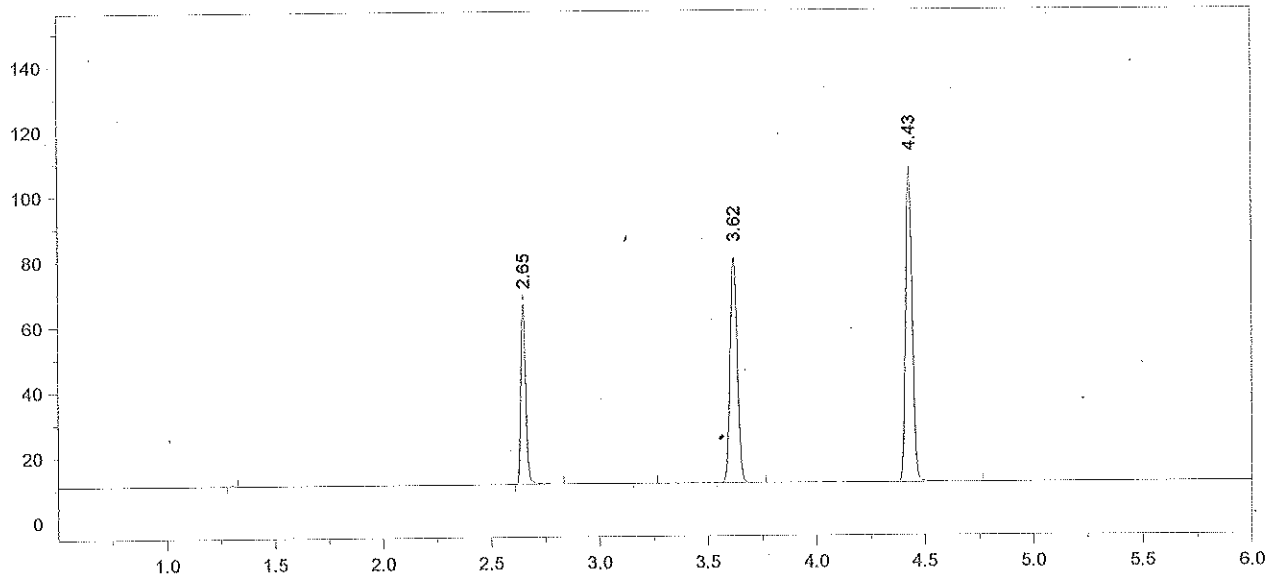
Today's Time = 10:01:41 AM
Bound File Name = VFL10282013.0027.RAW
Sample Name = 0.08 RLM
Date Taken = 10/28/2013 5:42:31 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10282013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	95210	0.0978	0.0798
4	3.63	t-Butanol	138383	0.9707	0.7923
5	4.43	n-Propanol	185860	1.0000	0.8162

13-18-080 32 AeB



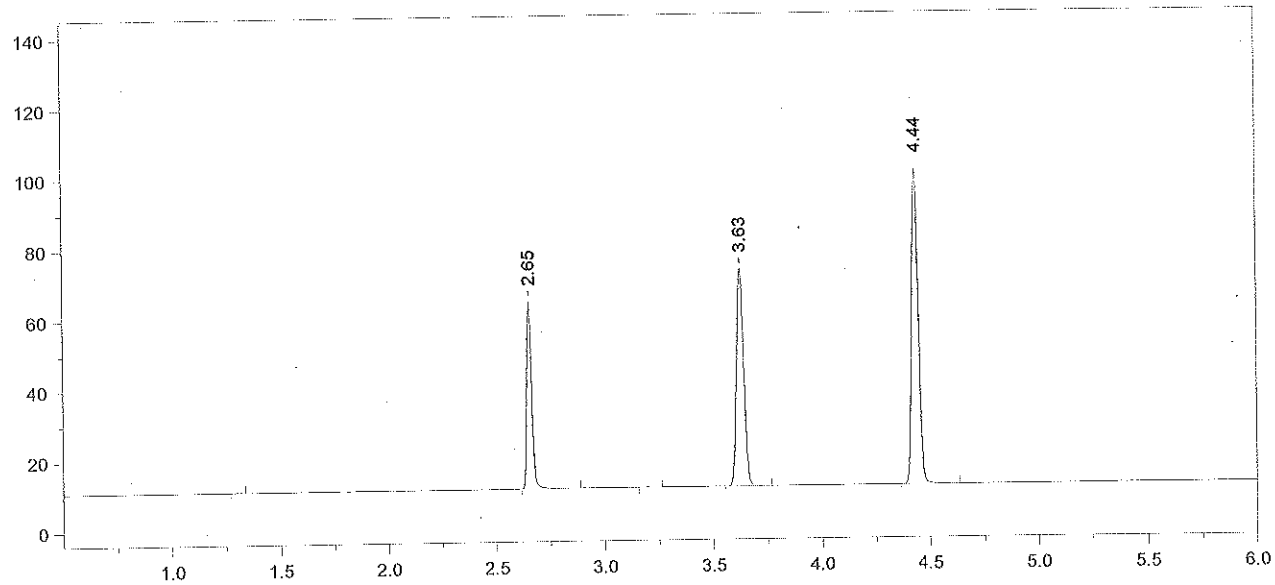
Format File Name = AlcoholVFL.FMT

Today's Date = 10/28/2013
Today's Time = 6:00:46 PM
Bound File Name = VFL10282013.0028.RAW
Sample Name = CCS
Date Taken = 10/28/2013 6:00:37 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10282013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	86613	0.0803
4	3.62	t-Butanol	160543	1.0170
5	4.43	n-Propanol	205805	1.0000

13-18-050 33 A.B

Chrom Perfect Chromatogram Report



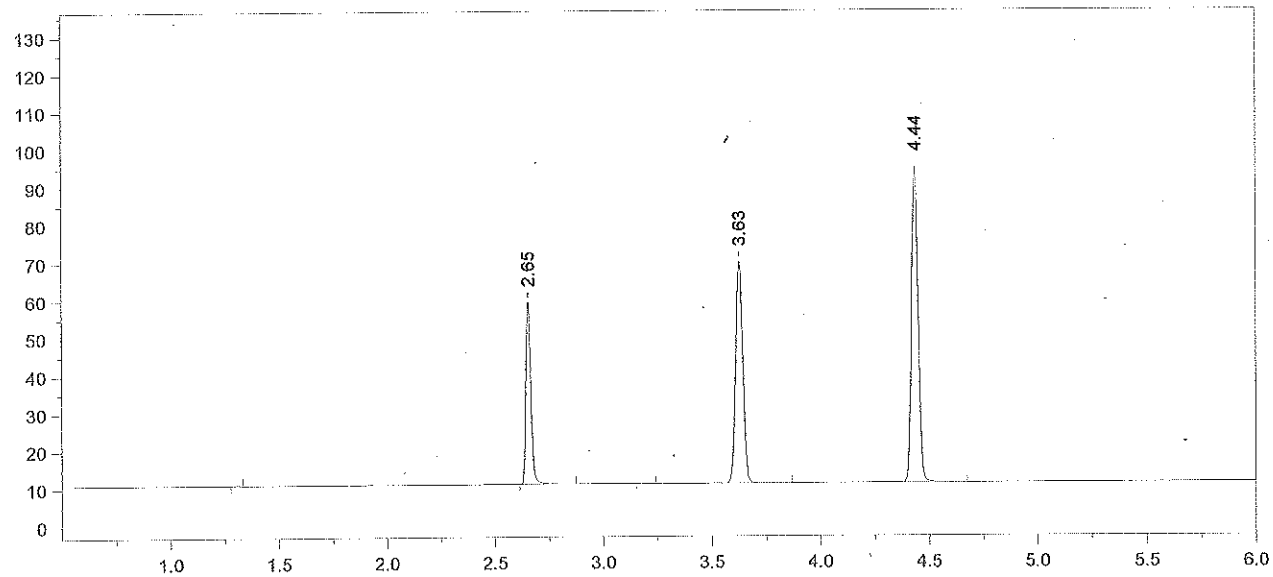
Format File Name = AlcoholVFL.FMT

Today's Date = 10/28/2013
Today's Time = 6:14:42 PM
Bound File Name = VFL10282013.0029.RAW
Sample Name = CCS
Date Taken = 10/28/2013 6:14:37 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10282013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	83062	0.0829
4	3.63	t-Butanol	143230	0.9763
5	4.44	n-Propanol	191260	1.0000

Avg vials 28 + 29 = 0.081
10/29/13
[illegible]

13 18-051 34 [illegible]



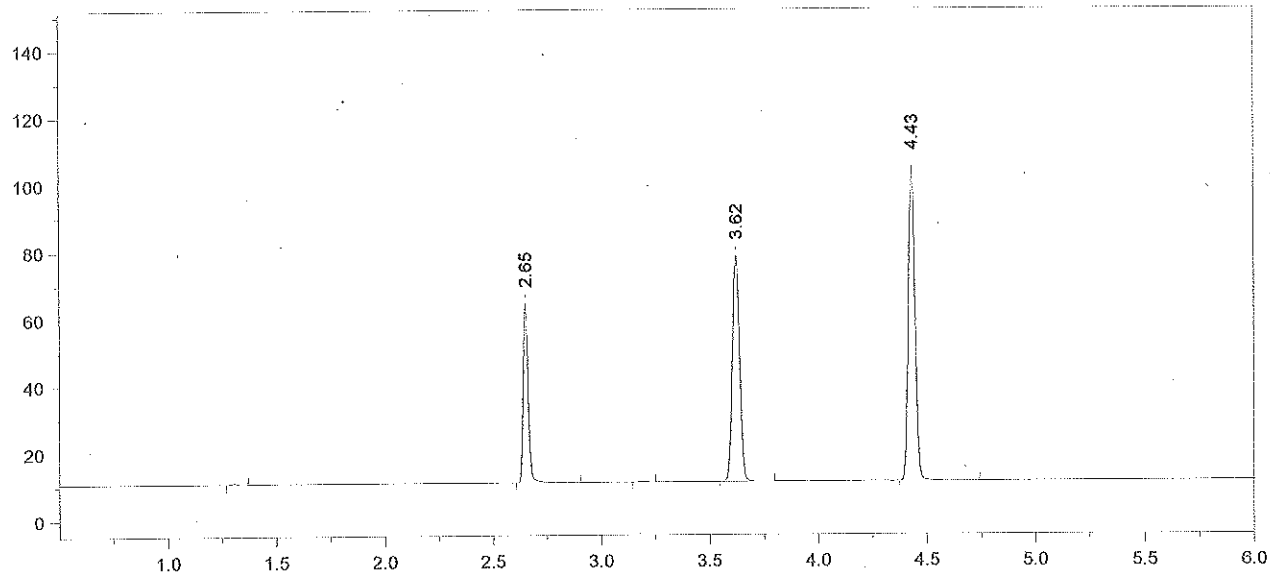
Format File Name = AlcoholVFL.FMT

Today's Date = 10/28/2013
Today's Time = 8:20:37 PM
Bound File Name = VFL10282013.0037.RAW
Sample Name = CCS
Date Taken = 10/28/2013 8:20:30 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10282013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	76526	0.0824
4	3.63	t-Butanol	136455	1.0034
5	4.44	n-Propanol	177303	1.0000

13-18-081 35

Chrom Perfect Chromatogram Report



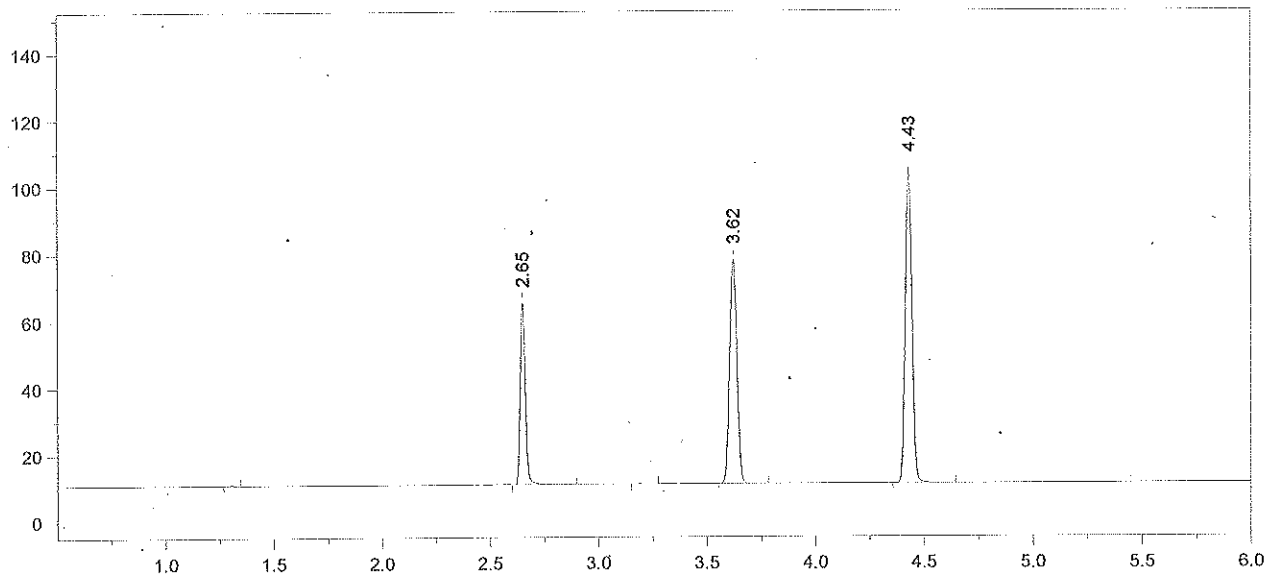
Format File Name = AlcoholVFL.FMT

Today's Date = 10/28/2013
Today's Time = 8:36:18 PM
Bound File Name = VFL10282013.0038.RAW
Sample Name = CCS
Date Taken = 10/28/2013 8:36:09 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10282013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	83858	0.0804
4	3.62	t-Butanol	156542	1.0256
5	4.43	n-Propanol	198998	1.0000

Avg vials 37 + 38 = 0.081
10/29/13 [illegible]

13 18-050 36 [illegible]



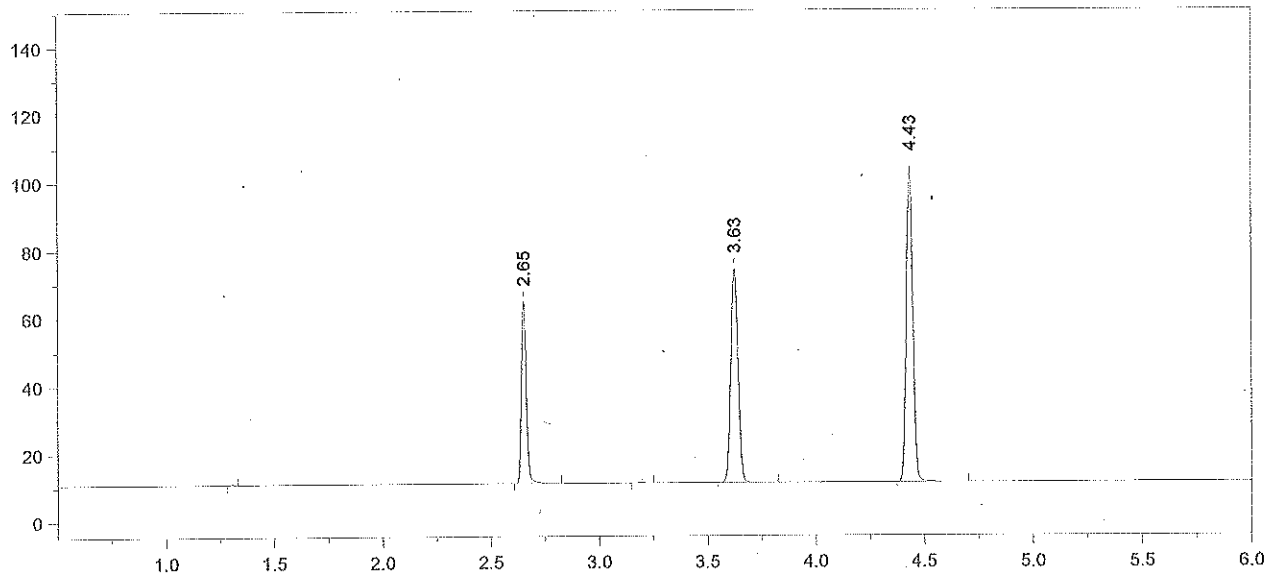
Format File Name = AlcoholVFL.FMT

Today's Date = 10/28/2013
Today's Time = 10:40:45 PM
Bound File Name = VFL10282013.0046.RAW
Sample Name = CCS
Date Taken = 10/28/2013 10:40:39 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10282013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	85098	0.0816
4	3.62	t-Butanol	155373	1.0171
5	4.43	n-Propanol	199155	1.0000

13-18-080 37

Chrom Perfect Chromatogram Report



Format File Name = AlcoholVFL.FMT

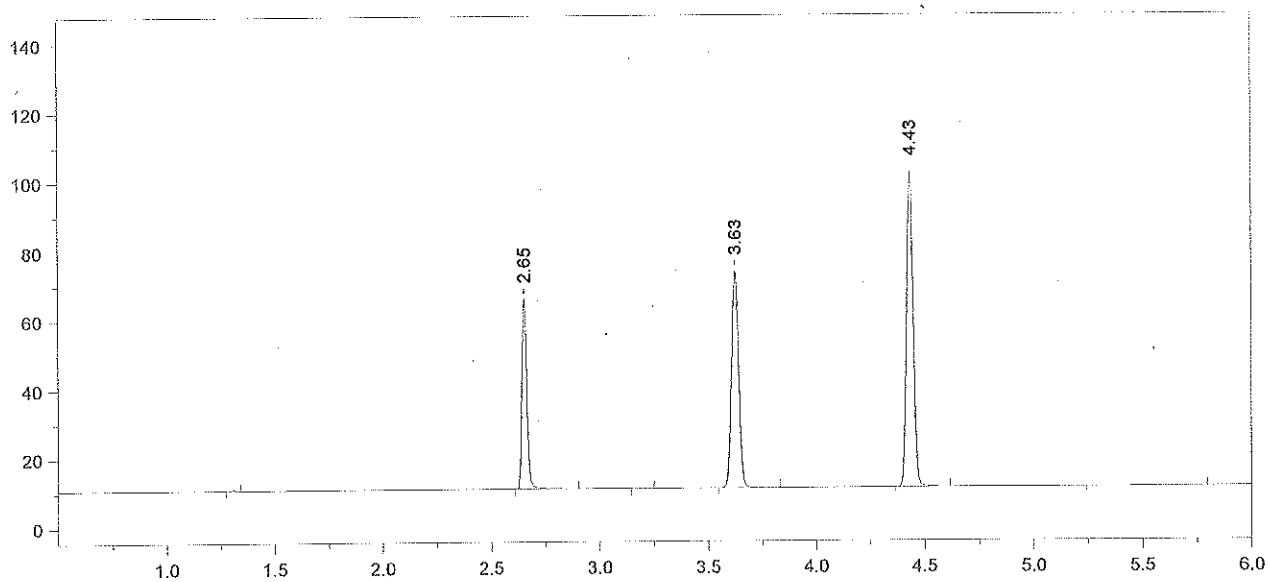
Today's Date = 10/28/2013
Today's Time = 10:54:38 PM
Bound File Name = VFL10282013.0047.RAW
Sample Name = CCS
Date Taken = 10/28/2013 10:54:29 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10282013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	84271	0.0819
4	3.63	t-Butanol	146234	0.9701
5	4.43	n-Propanol	196523	1.0000

Avg vials 46 + 47 = 0.082

10/29/13 [illegible]

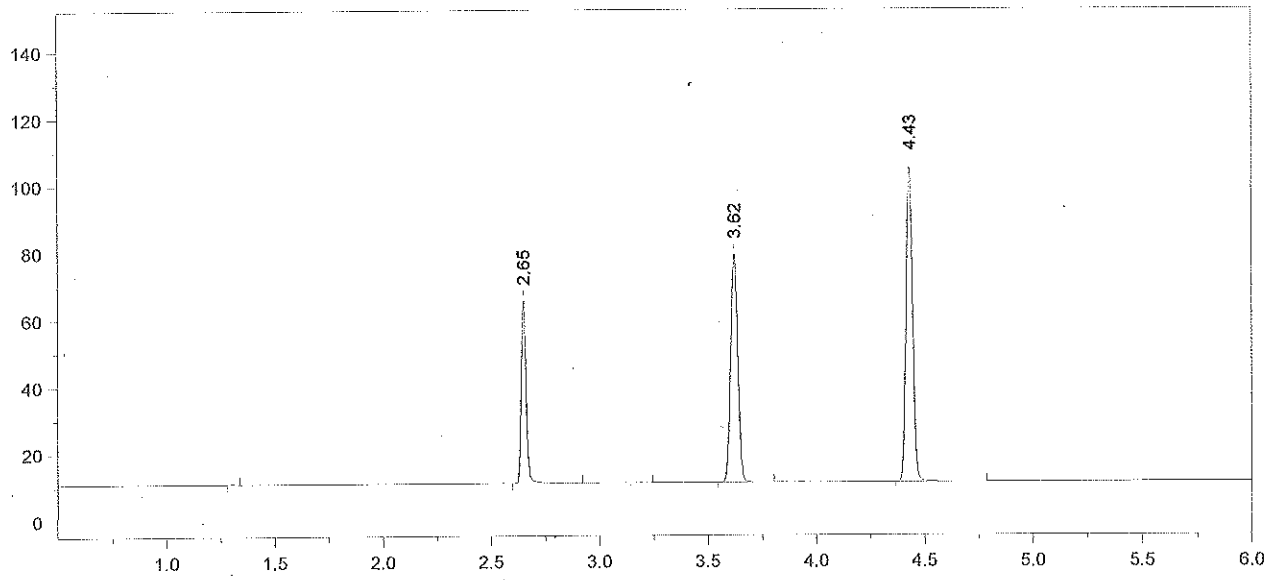
13-18-080 38 [illegible]



Format File Name = AlcoholVFL.FMT

Today's Date = 10/29/2013
Today's Time = 12:59:40 AM
Bound File Name = VFL10282013.0055.RAW
Sample Name = CCS
Date Taken = 10/29/2013 12:59:33 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10282013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	85647	0.0841
4	3.63	t-Butanol	145259	0.9736
5	4.43	n-Propanol	194513	1.0000

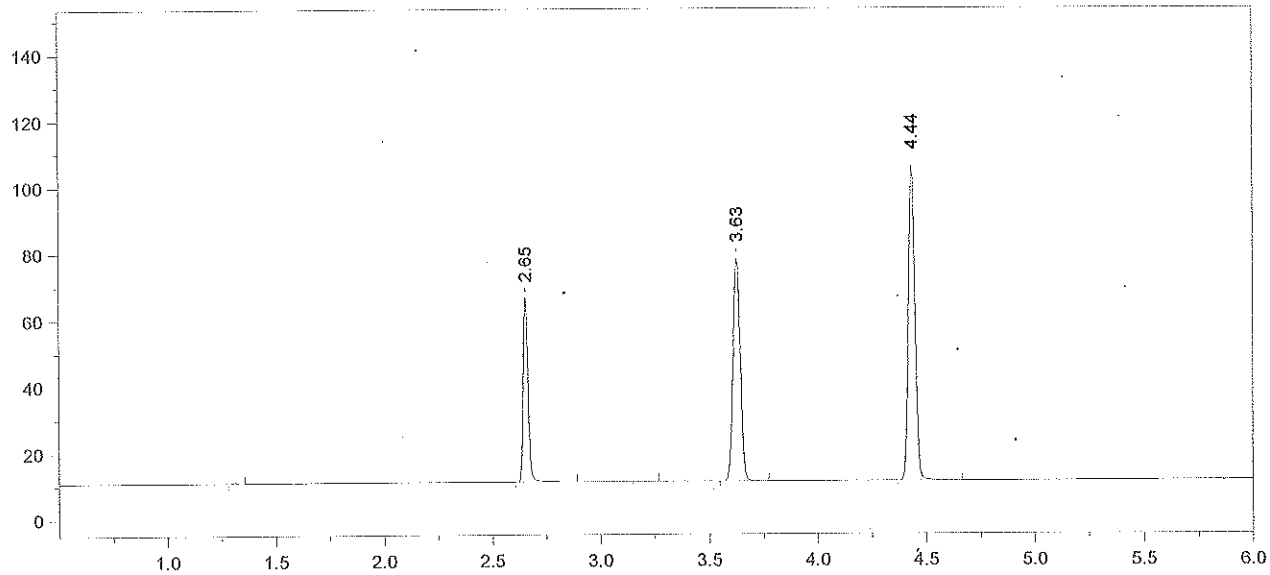


Format File Name = AlcoholVFL.FMT

Today's Date = 10/29/2013
Today's Time = 1:17:55 AM
Bound File Name = VFL10282013.0056.RAW
Sample Name = CCS
Date Taken = 10/29/2013 1:17:48 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10282013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	85182	0.0813
4	3.62	t-Butanol	157421	1.0256
5	4.43	n-Propanol	200121	1.0000

Avg vals 55 + 56 = 0.083
10/29/13
dis



Format File Name = AlcoholVFL.FMT

Today's Date = 10/29/2013
Today's Time = 3:20:51 AM
Bound File Name = VFL10282013.0064.RAW
Sample Name = CCS
Date Taken = 10/29/2013 3:20:42 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10282013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	87204	0.0828
4	3.63	t-Butanol	155918	1.0108
5	4.44	n-Propanol	201098	1.0000

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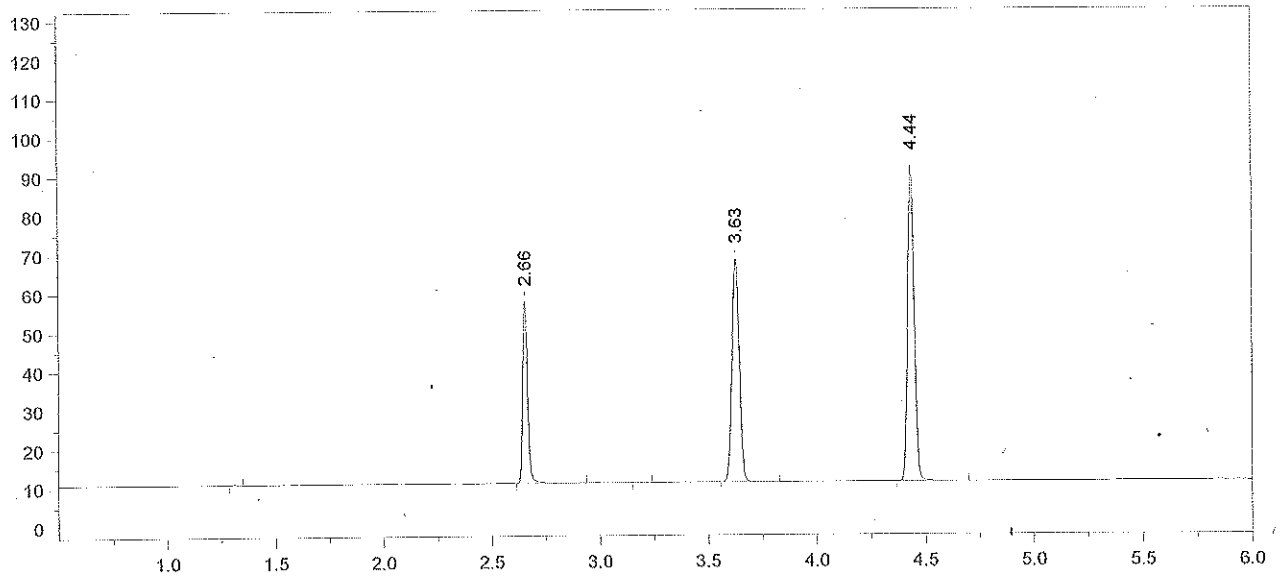
Chrom Perfect Chromatogram Report



Format File Name = AlcoholVFL.FMT

Today's Date = 10/29/2013
Today's Time = 3:35:13 AM
Bound File Name = VFL10282013.0065.RAW
Sample Name = CCS
Date Taken = 10/29/2013 3:35:05 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10282013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	74252	0.0823
4	3.63	t-Butanol	132991	1.0069
5	4.44	n-Propanol	172196	1.0000

Avg vials 64 + 65 = 0.082
10/29/13
ALB

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Headspace Alcohol Analysis Standards Coversheet

Analyst: ALB Date: 11/1/13

11/4/2013

Calibration Standards:

Lot ID: ES-09262013 Preparation Date: 09/26/2013 Expiration Date: 12/26/2013

	Standard A	Standard B	Standard C	Standard D	Standard E	Calibration Check
% Ethanol (w/v)	0.006	0.025	0.082	0.201	0.411	0.082
Acceptance Range (± 10%)	0.007	0.028	0.090	0.221	0.452	0.090
	0.005	0.023	0.074	0.181	0.370	0.074

Control Sample:

Sample	Source	Lot number	Target Value	Acceptance Range	
Aqueous	Cerilliant	FN021111-03	0.080	0.072	0.088

Calibration and Control Sample Data:

Vial No.	Sample Identification		Result	In Range?	Comments
1	Blank		<0.005	Y N	
2	Compound Retention Times:			N/A	
		Acetaldehyde	1.91		
		Methanol	2.01		
		Ethanol	2.65		
		Acetone	3.05		
		Isopropanol	3.19		
		T- butanol	3.62		
		n-propanol	4.43		
3	Standard A		0.006	Y N	
4	Standard B		0.024	Y N	
5	Standard C		0.080	Y N	
6	Standard D		0.200	Y N	
7	Standard E		0.412	Y N	
8	Aqueous QC		~~0.0799~~ 0.0818	Y N	
9	Aqueous QC		0.0818	Y N	$\bar{X}$ = 0.081 101%

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File Name = C:\Alcohol Data\VFL10312013\VFL10312013.SEQ
Version = 1
File Date = 10/31/2013 1:43:12 PM

Entry #	Raw File Name	Method File Name	Sample Name	Sample Wt.	Int. Std. Amount
1	VFL10312013.0001.raw	Blood Alc temp VFL.MET	Blank	1.00	1.00
2	VFL10312013.0002.raw	Blood Alc temp VFL.MET	TMX	1.00	1.00
3	VFL10312013.0003.raw	Blood Alc temp VFL.MET	STD A	1.00	1.00
4	VFL10312013.0004.raw	Blood Alc temp VFL.MET	STD B	1.00	1.00
5	VFL10312013.0005.raw	Blood Alc temp VFL.MET	STD C	1.00	1.00
6	VFL10312013.0006.raw	Blood Alc temp VFL.MET	STD D	1.00	1.00
7	VFL10312013.0007.raw	Blood Alc temp VFL.MET	STD E	1.00	1.00
8	VFL10312013.0008.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
9	VFL10312013.0009.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
10	VFL10312013.0010.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
11	VFL10312013.0011.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
12	VFL10312013.0012.raw	simsoln.met	0.08 ALB	1.00	1.00
13	VFL10312013.0013.raw	simsoln.met	0.08 ALB	1.00	1.00
14	VFL10312013.0014.raw	simsoln.met	0.08 ALB	1.00	1.00
15	VFL10312013.0015.raw	simsoln.met	0.08 ALB	1.00	1.00
16	VFL10312013.0016.raw	simsoln.met	0.08 ALB	1.00	1.00
17	VFL10312013.0017.raw	simsoln.met	0.08 ALB	1.00	1.00
18	VFL10312013.0018.raw	simsoln.met	0.08 ALB	1.00	1.00
19	VFL10312013.0019.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
20	VFL10312013.0020.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
21	VFL10312013.0021.raw	simsoln.met	0.08 RLM	1.00	1.00
22	VFL10312013.0022.raw	simsoln.met	0.08 RLM	1.00	1.00
23	VFL10312013.0023.raw	simsoln.met	0.08 RLM	1.00	1.00
24	VFL10312013.0024.raw	simsoln.met	0.08 RLM	1.00	1.00
25	VFL10312013.0025.raw	simsoln.met	0.08 RLM	1.00	1.00
26	VFL10312013.0026.raw	simsoln.met	0.08 RLM	1.00	1.00
27	VFL10312013.0027.raw	simsoln.met	0.08 RLM	1.00	1.00
28	VFL10312013.0028.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
29	VFL10312013.0029.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
30	VFL10312013.0030.raw	simsoln.met	0.10 ALB	1.00	1.00
31	VFL10312013.0031.raw	simsoln.met	0.10 ALB	1.00	1.00
32	VFL10312013.0032.raw	simsoln.met	0.10 ALB	1.00	1.00
33	VFL10312013.0033.raw	simsoln.met	0.10 ALB	1.00	1.00
34	VFL10312013.0034.raw	simsoln.met	0.10 ALB	1.00	1.00
35	VFL10312013.0035.raw	simsoln.met	0.10 ALB	1.00	1.00
36	VFL10312013.0036.raw	simsoln.met	0.10 ALB	1.00	1.00
37	VFL10312013.0037.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
38	VFL10312013.0038.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
39	VFL10312013.0039.raw	simsoln.met	0.10 RLM	1.00	1.00
40	VFL10312013.0040.raw	simsoln.met	0.10 RLM	1.00	1.00
41	VFL10312013.0041.raw	simsoln.met	0.10 RLM	1.00	1.00
42	VFL10312013.0042.raw	simsoln.met	0.10 RLM	1.00	1.00
43	VFL10312013.0043.raw	simsoln.met	0.10 RLM	1.00	1.00
44	VFL10312013.0044.raw	simsoln.met	0.10 RLM	1.00	1.00
45	VFL10312013.0045.raw	simsoln.met	0.10 RLM	1.00	1.00
46	VFL10312013.0046.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
47	VFL10312013.0047.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
48	VFL10312013.0048.raw	simsoln.met	0.40 ALB	1.00	1.00
49	VFL10312013.0049.raw	simsoln.met	0.40 ALB	1.00	1.00
50	VFL10312013.0050.raw	simsoln.met	0.40 ALB	1.00	1.00
51	VFL10312013.0051.raw	simsoln.met	0.40 ALB	1.00	1.00
52	VFL10312013.0052.raw	simsoln.met	0.40 ALB	1.00	1.00
53	VFL10312013.0053.raw	simsoln.met	0.40 ALB	1.00	1.00
54	VFL10312013.0054.raw	simsoln.met	0.40 ALB	1.00	1.00
55	VFL10312013.0055.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
56	VFL10312013.0056.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
57	VFL10312013.0057.raw	simsoln.met	0.40 RLM	1.00	1.00
58	VFL10312013.0058.raw	simsoln.met	0.40 RLM	1.00	1.00
59	VFL10312013.0059.raw	simsoln.met	0.40 RLM	1.00	1.00
60	VFL10312013.0060.raw	simsoln.met	0.40 RLM	1.00	1.00
61	VFL10312013.0061.raw	simsoln.met	0.40 RLM	1.00	1.00
62	VFL10312013.0062.raw	simsoln.met	0.40 RLM	1.00	1.00

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Entry #	Raw File Name	Method File Name	Sample Name	Sample Wt.	Int. Std. Amount
63	VFL10312013.0063.raw	simsoln.met	0.40 RLM	1.00	1.00
64	VFL10312013.0064.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
65	VFL10312013.0065.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00

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File Name: C:\Methods\VFL10312013.CAL
Version: 7

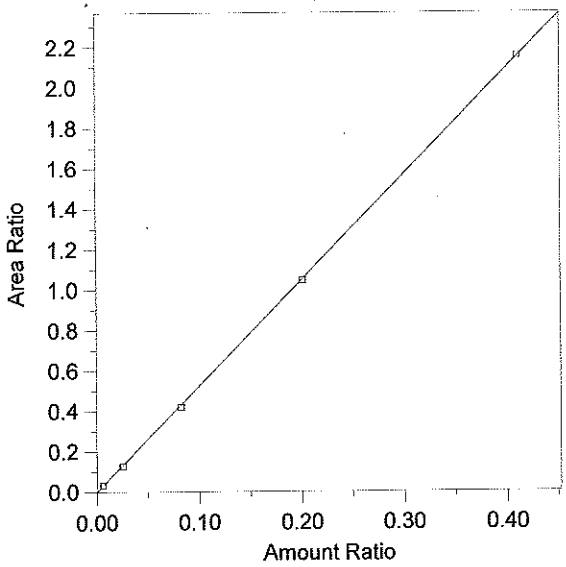
Creator:
Description:
Reason for change:

Internal standard calibration
No injection volume correction
No sample weight correction
Area reject threshold: 1500
Reference peak area reject threshold: 0
Amount units:
No default component

Method of calculating data point averages: Equal weight for all updates
No calibration update report

All levels are normal data points.

3 Ethanol



Expected retention time:	2.656 minutes
Search window:	0.1 minutes
Internal standard component:	7 (n-Propanol)
No retention time reference component	
Group number:	0
High alarm limit:	0
Low alarm limit:	0
Component constant:	0

Single peak quantification by area

Y = 5.224923 X + 0

Linear fit with equal weighting, forced to origin

Coefficient of determination:	0.999931
Average error:	2.021%
Average CF:	5.173039
RSD:	2.643%

Level	Amount	Response	Cal Factor	Error, %	Amount Ratio	Response Ratio	Source	Date and time
1	(0.091)	(85146)	--	--	0.091	85146	Manual	8/12/2013 4:03:34 PM
2	0.0063	6694.642	1062642	2.334	0.0063	3.368535E-02	C:\Alcohol Data\VFL10312013\VFL10312013.0003.BND	10/31/2013 2:48:25 PM
3	0.0254	26742.49	1052854	-4.457	0.0254	0.1267985	C:\Alcohol Data\VFL10312013\VFL10312013.0004.BND	10/31/2013 3:05:58 PM
4	0.0822	86341.52	1050384	-2.591	0.0822	0.418359	C:\Alcohol Data\VFL10312013\VFL10312013.0005.BND	10/31/2013 3:19:12 PM
5	0.2012	221129	1099051	-0.488	0.2012	1.046124	C:\Alcohol Data\VFL10312013\VFL10312013.0006.BND	10/31/2013 3:35:41 PM
6	0.4112	433627.9	1054543	0.237	0.4112	2.153577	C:\Alcohol Data\VFL10312013\VFL10312013.0007.BND	10/31/2013 3:50:35 PM

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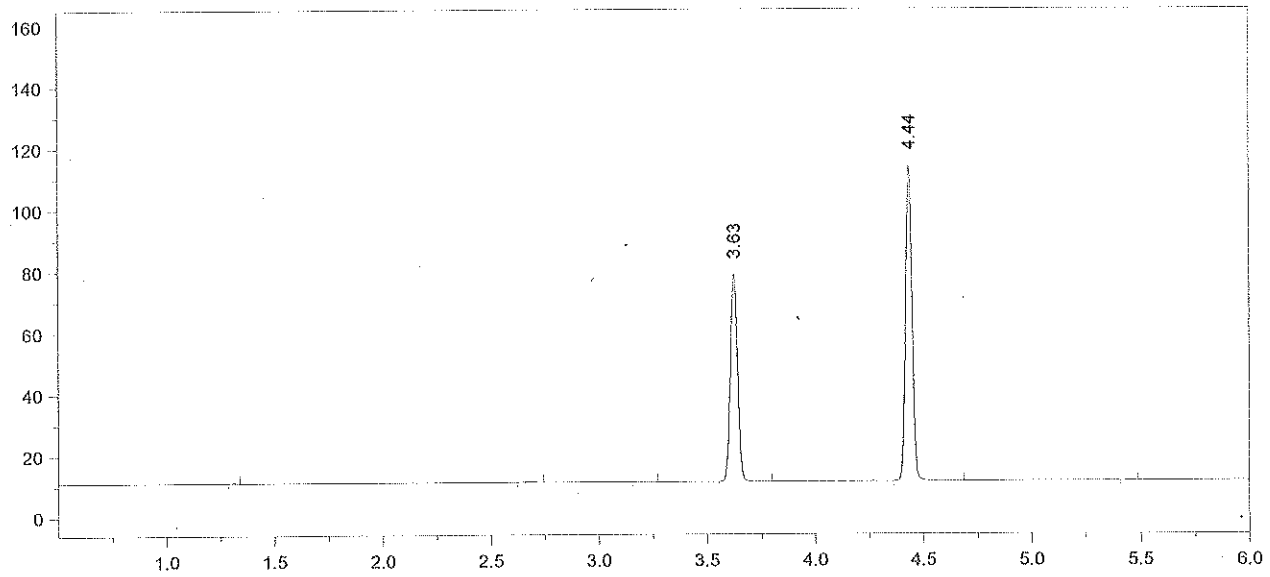
Chrom Perfect Chromatogram Report



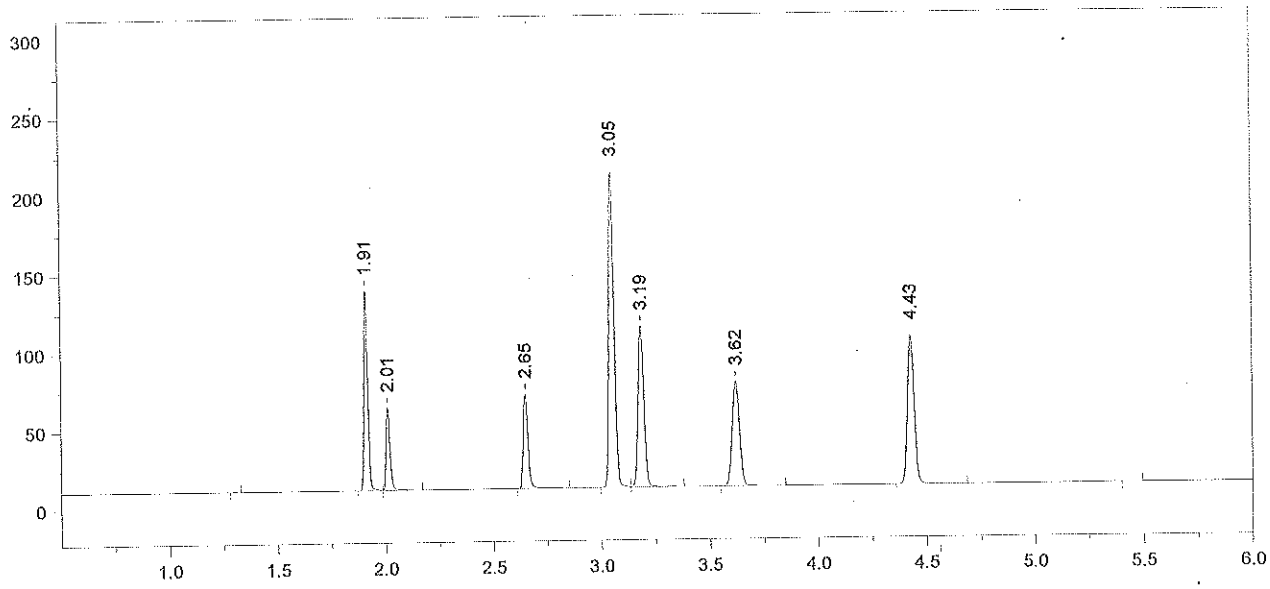
Format File Name = AlcoholVFL.FMT

Today's Date = 11/1/2013
Today's Time = 8:21:07 AM
Bound File Name = VFL10312013.0001.RAW
Sample Name = Blank
Date Taken = 10/31/2013 2:17:00 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	3.63	t-Butanol	155917	0.9550
5	4.44	n-Propanol	217916	1.0000

13-18-080 47 ALB

Chrom Perfect Chromatogram Report



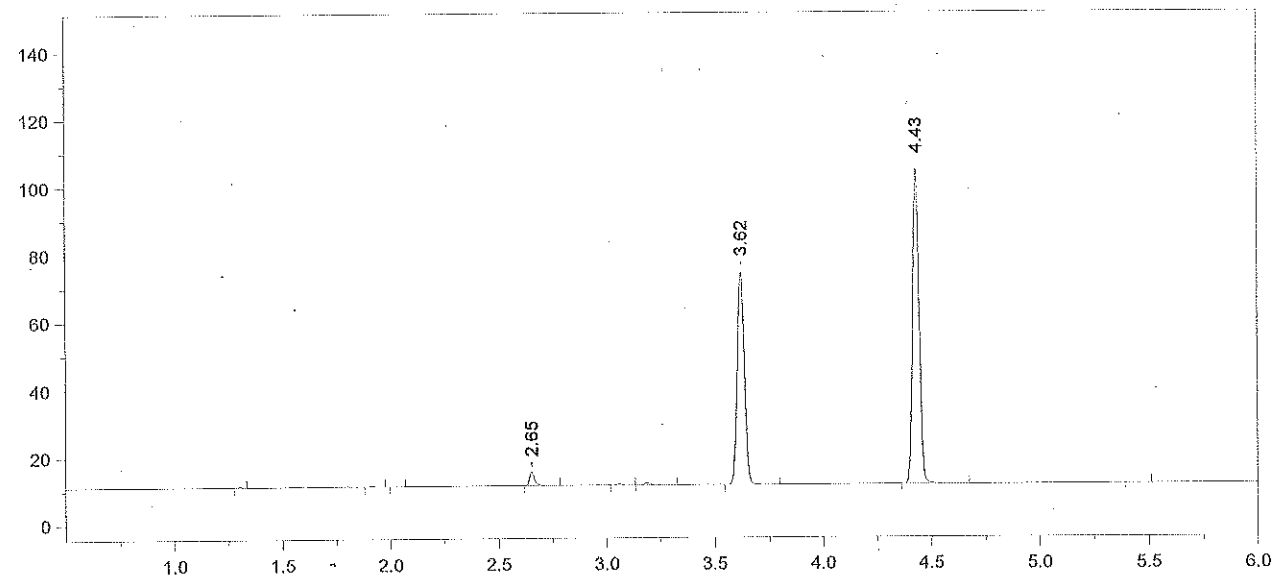
Format File Name = AlcoholVFL.FMT

Today's Date = 11/1/2013
Today's Time = 8:21:18 AM
Bound File Name = VFL10312013.0002.RAW
Sample Name = TMX
Date Taken = 10/31/2013 2:34:26 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	1.91	Acetaldehyde	151608	0.0520
3	2.01	Methanol	67699	0.1370
4	2.65	Ethanol	94124	0.0893
5	3.05	Acetone	345504	0.0940
6	3.19	Isopropanol	193668	0.0850
7	3.62	t-Butanol	155058	1.0260
8	4.43	n-Propanol	201723	1.0000

13-18-DRD UK DeB

Chrom Perfect Chromatogram Report



Format File Name = AlcoholVFL.FMT

Today's Date = 11/1/2013
Today's Time = 8:21:25 AM
Bound File Name = VFL10312013.0003.RAW
Sample Name = STD A
Date Taken = 10/31/2013 2:48:14 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	2.65	Ethanol	06695	0.0064
7	3.62	t-Butanol	145520	0.9773
8	4.43	n-Propanol	198741	1.0000

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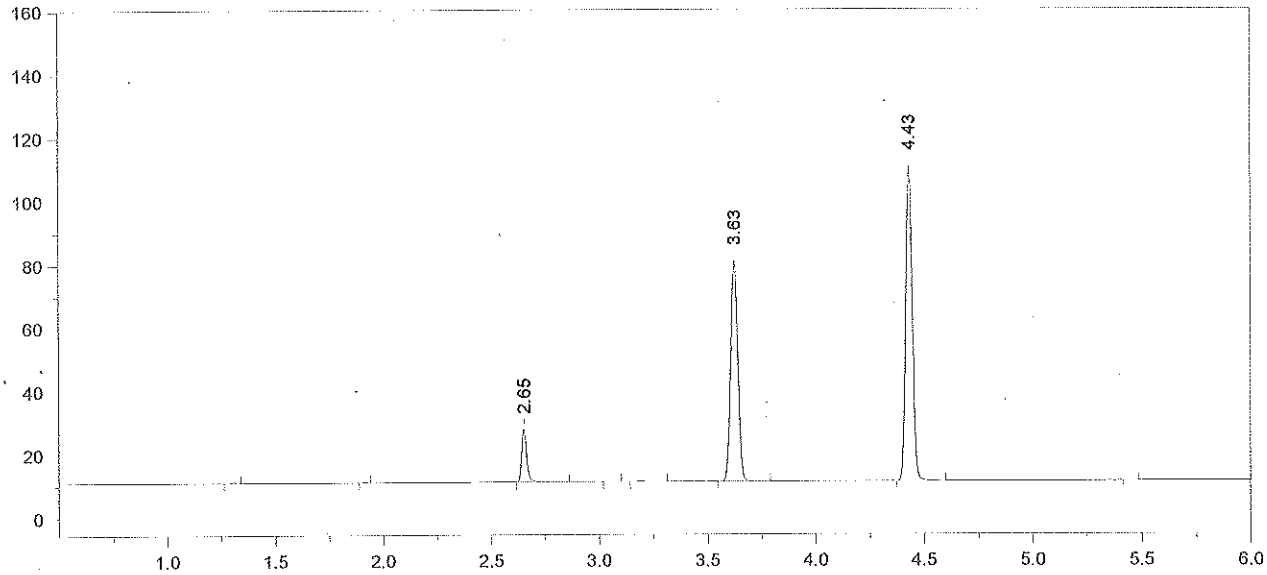

Format File Name = AlcoholVFL.FMT

Today's Date = 11/1/2013
Today's Time = 8:21:31 AM
Bound File Name = VFL10312013.0004.RAW
Sample Name = STD B
Date Taken = 10/31/2013 3:05:50 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	26742	0.0243
6	3.63	t-Butanol	161769	1.0238
7	4.43	n-Propanol	210906	1.0000

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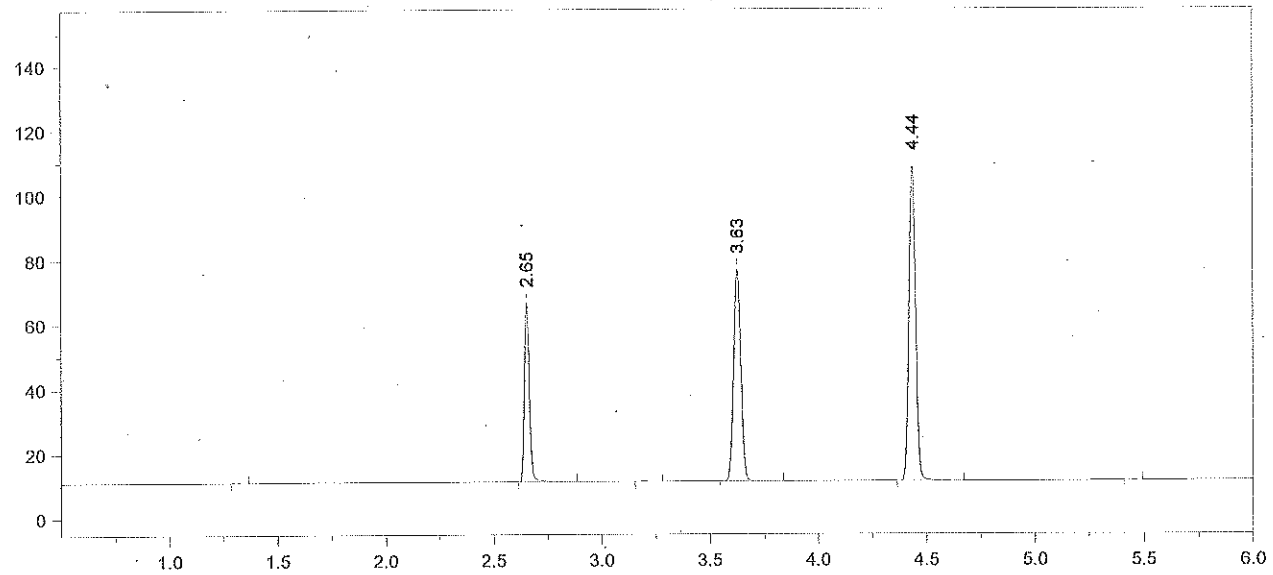

Format File Name = AlcoholVFL.FMT

Today's Date = 11/1/2013
Today's Time = 8:21:38 AM
Bound File Name = VFL10312013.0005.RAW
Sample Name = STD C
Date Taken = 10/31/2013 3:19:04 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	86342	0.0801
4	3.63	t-Butanol	151807	0.9818
5	4.44	n-Propanol	206381	1.0000

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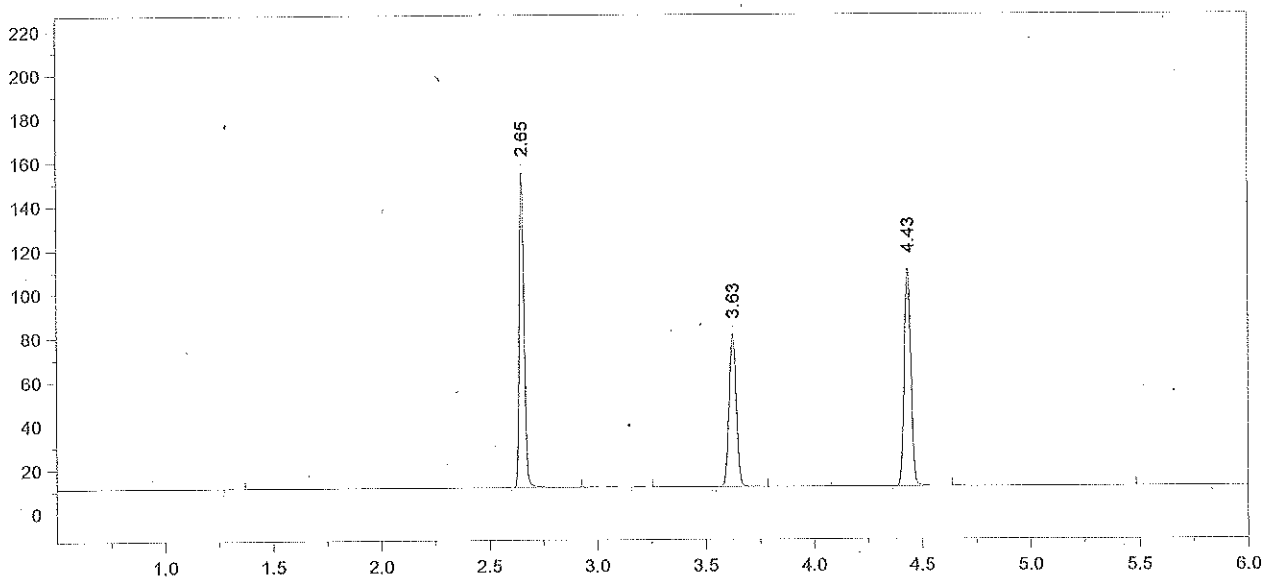
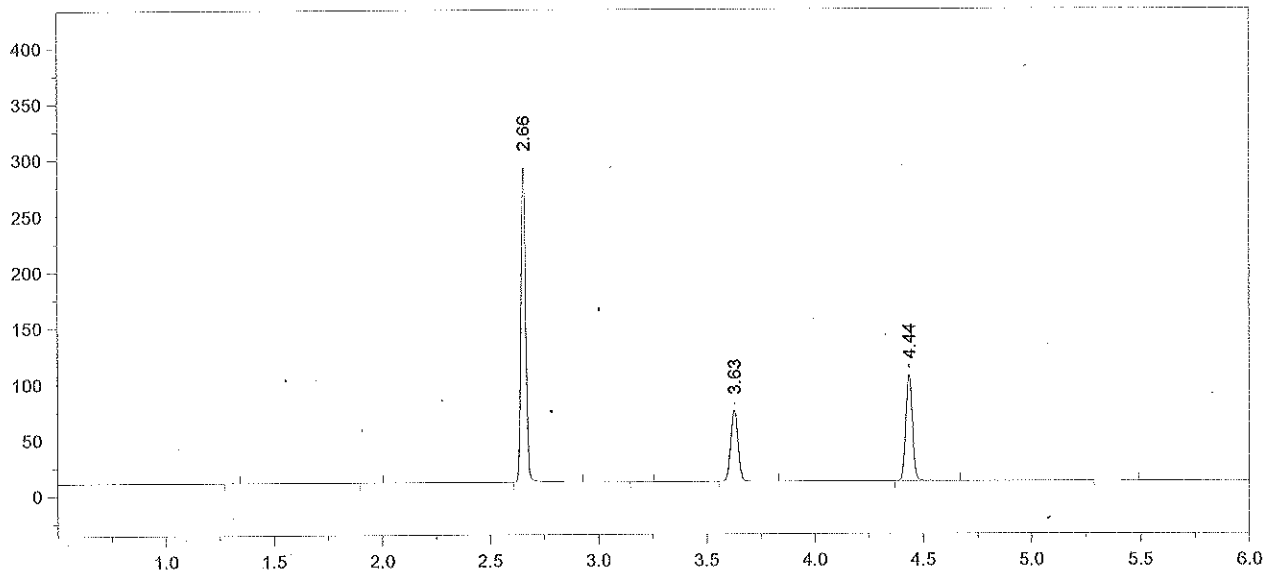


Format File Name = AlcoholVFL.FMT

Today's Date = 11/1/2013
Today's Time = 8:21:43 AM
Bound File Name = VFL10312013.0006.RAW
Sample Name = STD D
Date Taken = 10/31/2013 3:35:34 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	221129	0.2002
4	3.63	t-Butanol	161005	1.0167
5	4.43	n-Propanol	211379	1.0000

13-18-080



Format File Name = AlcoholVFL.FMT

Today's Date = 11/1/2013
Today's Time = 8:21:50 AM
Bound File Name = VFL10312013.0007.RAW
Sample Name = STD E
Date Taken = 10/31/2013 3:50:25 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	433628	0.4122
5	3.63	t-Butanol	146993	0.9744
6	4.44	n-Propanol	201352	1.0000

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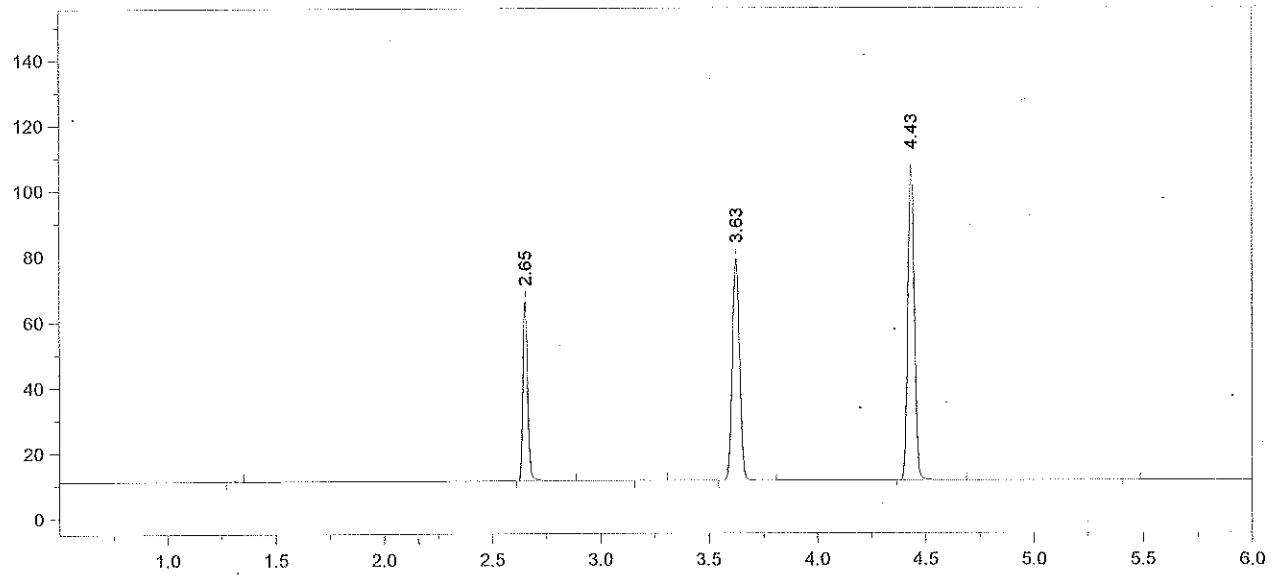

Format File Name = AlcoholVFL.FMT

Today's Date = 10/31/2013
Today's Time = 4:07:14 PM
Bound File Name = VFL10312013.0008.RAW
Sample Name = AQ QC
Date Taken = 10/31/2013 4:07:04 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	85617	0.0799
4	3.63	t-Butanol	156220	1.0173
5	4.43	n-Propanol	204963	1.0000

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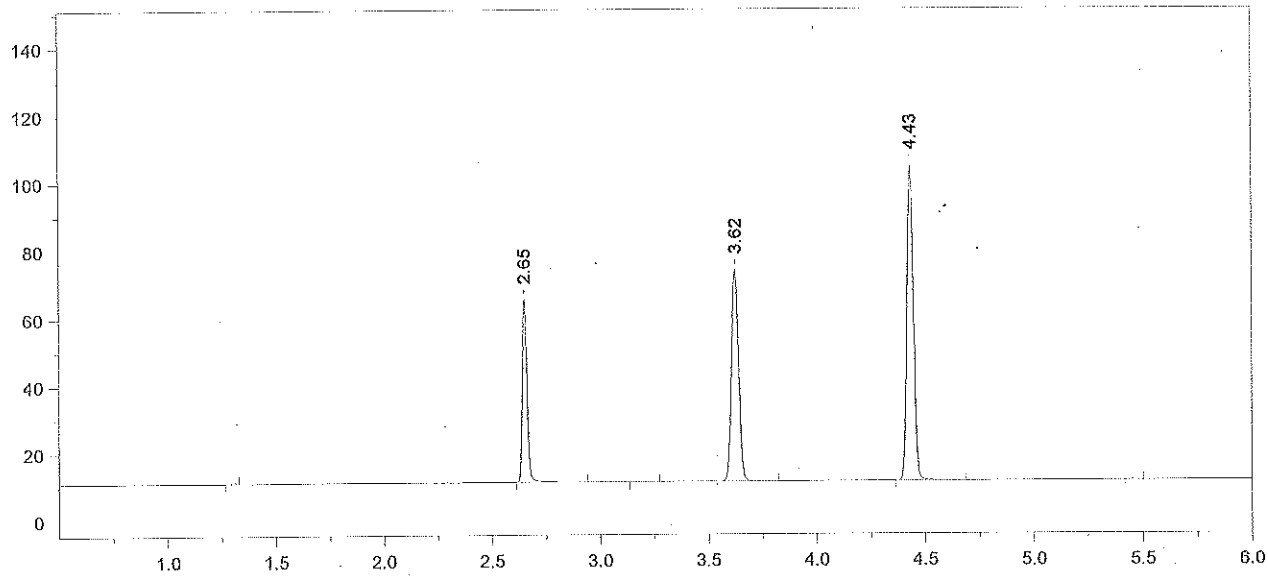


Format File Name = AlcoholVFL.FMT

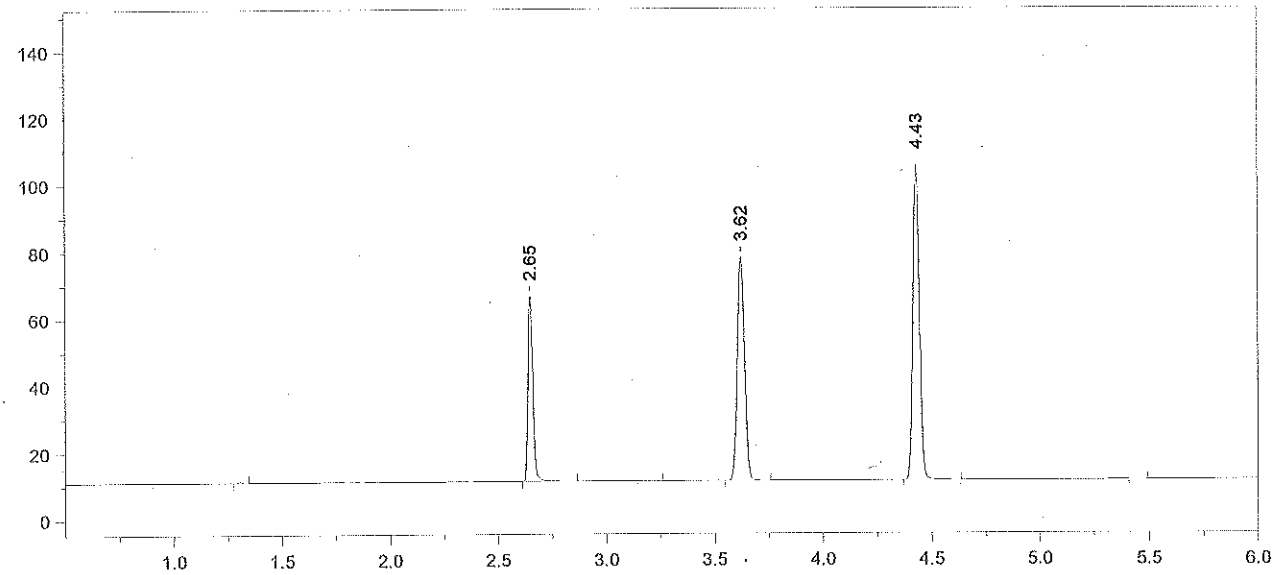
Today's Date = 10/31/2013
Today's Time = 4:21:05 PM
Bound File Name = VFL10312013.0009.RAW
Sample Name = AQ QC
Date Taken = 10/31/2013 4:20:54 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	84679	0.0818
4	3.62	t-Butanol	145404	0.9801
5	4.43	n-Propanol	198017	1.0000

Avg vials 8 + 9 = 0.081 101%

11/1/13 [illegible]

13-18-080 55 [illegible]



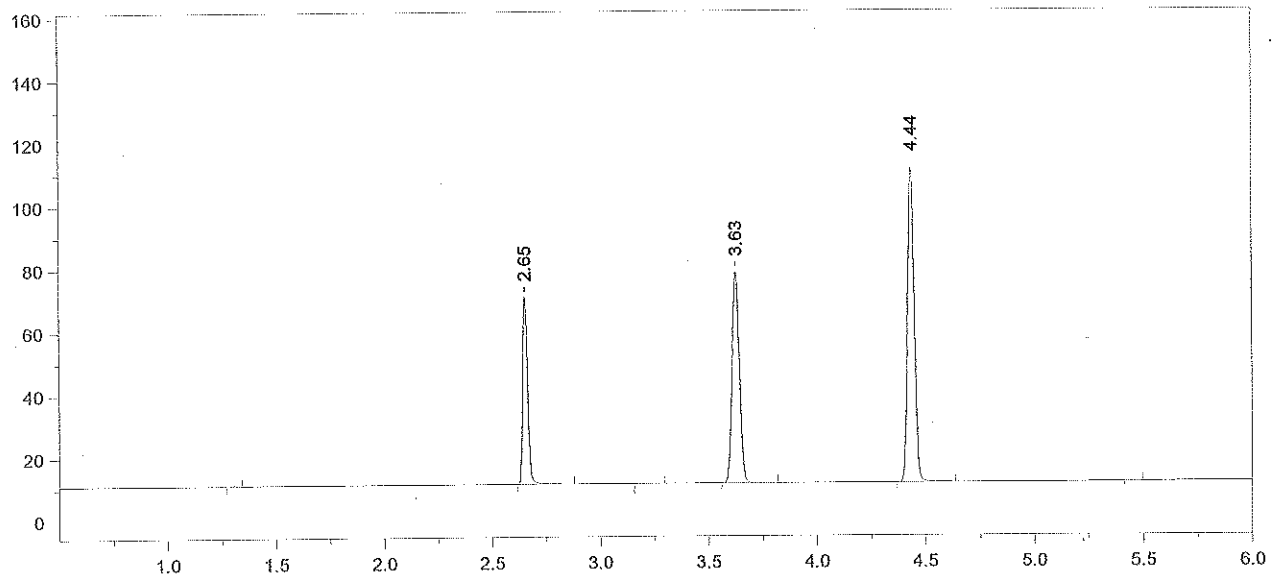
Format File Name = AlcoholVFL.FMT

Today's Date = 10/31/2013
Today's Time = 4:38:38 PM
Bound File Name = VFL10312013.0010.RAW
Sample Name = CCS
Date Taken = 10/31/2013 4:38:31 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	85793	0.0822
4	3.62	t-Butanol	154513	1.0328
5	4.43	n-Propanol	199690	1.0000

13-18-080 56 AeB

Chrom Perfect Chromatogram Report

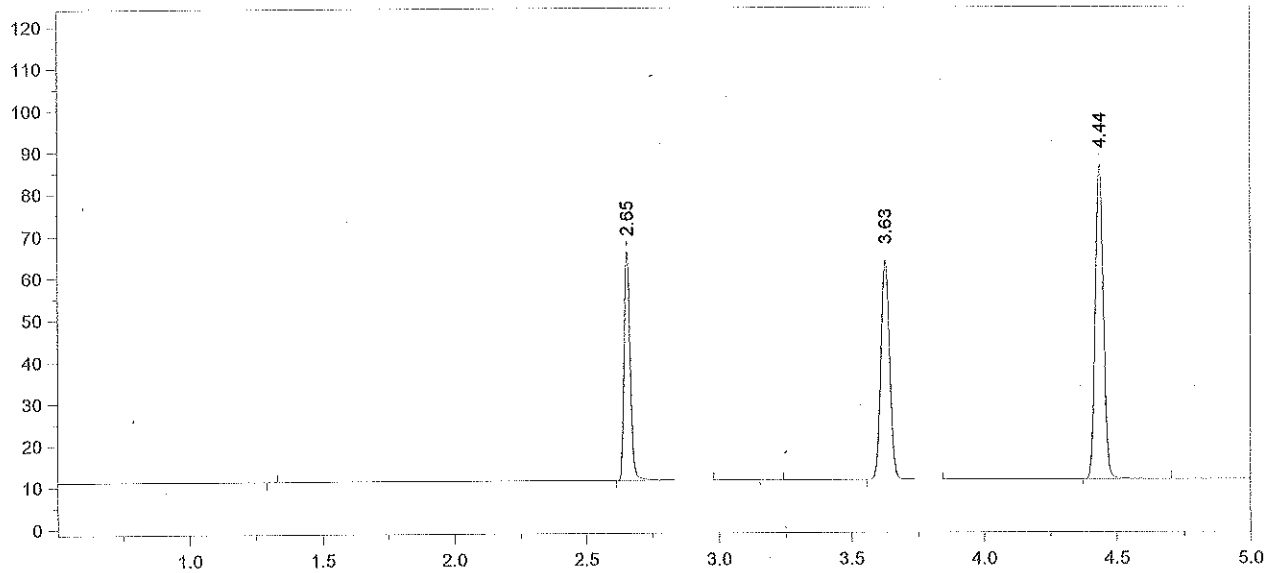


Format File Name = AlcoholVFL.FMT

Today's Date = 10/31/2013
Today's Time = 4:51:58 PM
Bound File Name = VFL10312013.0011.RAW
Sample Name = CCS
Date Taken = 10/31/2013 4:51:49 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	92669	0.0834
4	3.63	t-Butanol	155598	0.9766
5	4.44	n-Propanol	212657	1.0000

Avg vials 10 + 11 = 0.083
11/1/13

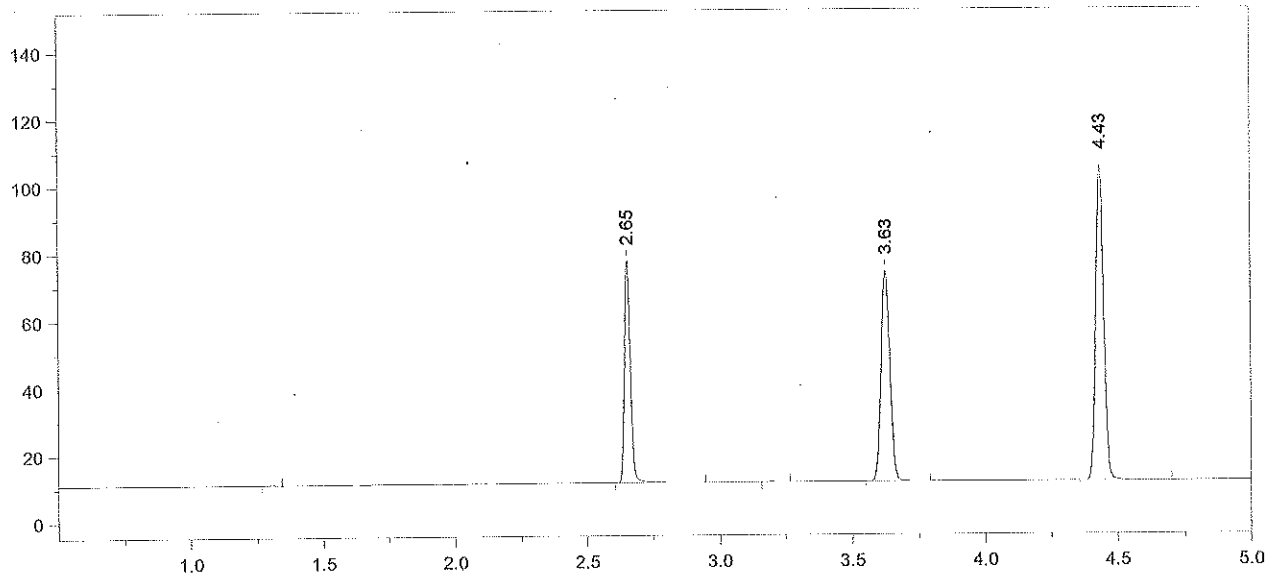


Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/31/2013
Today's Time = 5:08:32 PM
Bound File Name = VFL10312013.0012.RAW
Sample Name = 0.08 ALB
Date Taken = 10/31/2013 5:08:27 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	84509	0.1009	0.0824
4	3.63	t-Butanol	121153	1.0091	0.8237
5	4.44	n-Propanol	160245	1.0000	0.8162

13-18-080 58 ALB



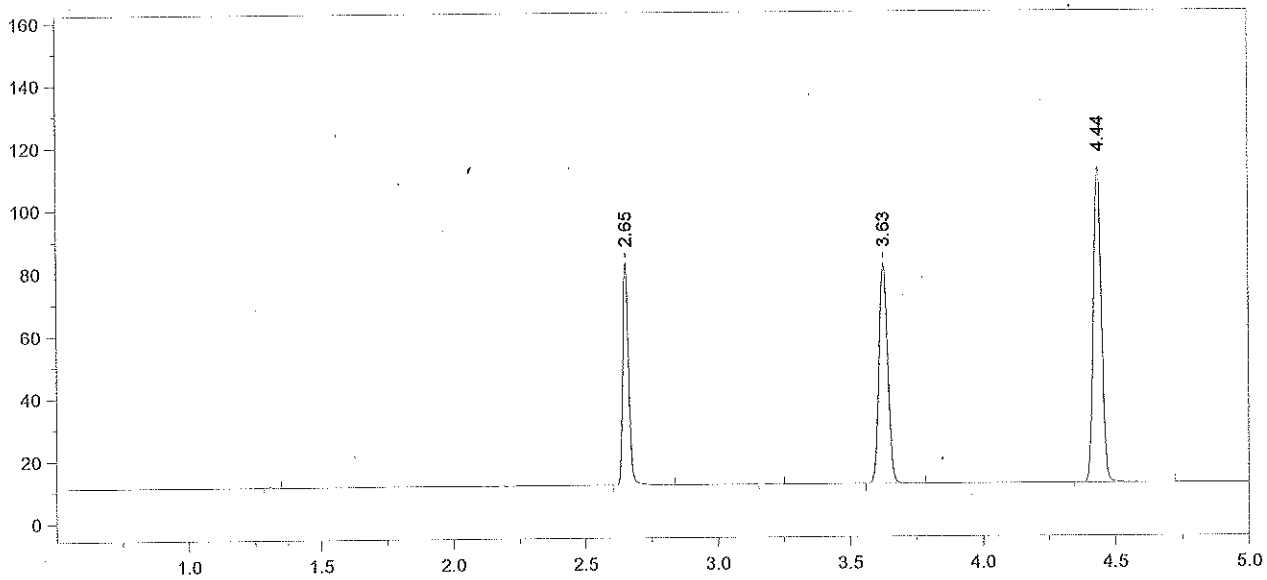
Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/31/2013
Today's Time = 5:23:53 PM
Bound File Name = VFL10312013.0013.RAW
Sample Name = 0.08 ALB
Date Taken = 10/31/2013 5:23:45 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	103030	0.0991	0.0809
4	3.63	t-Butanol	145560	0.9761	0.7967
5	4.43	n-Propanol	199049	1.0000	0.8162

13-18-080 59

Chrom Perfect Chromatogram Report

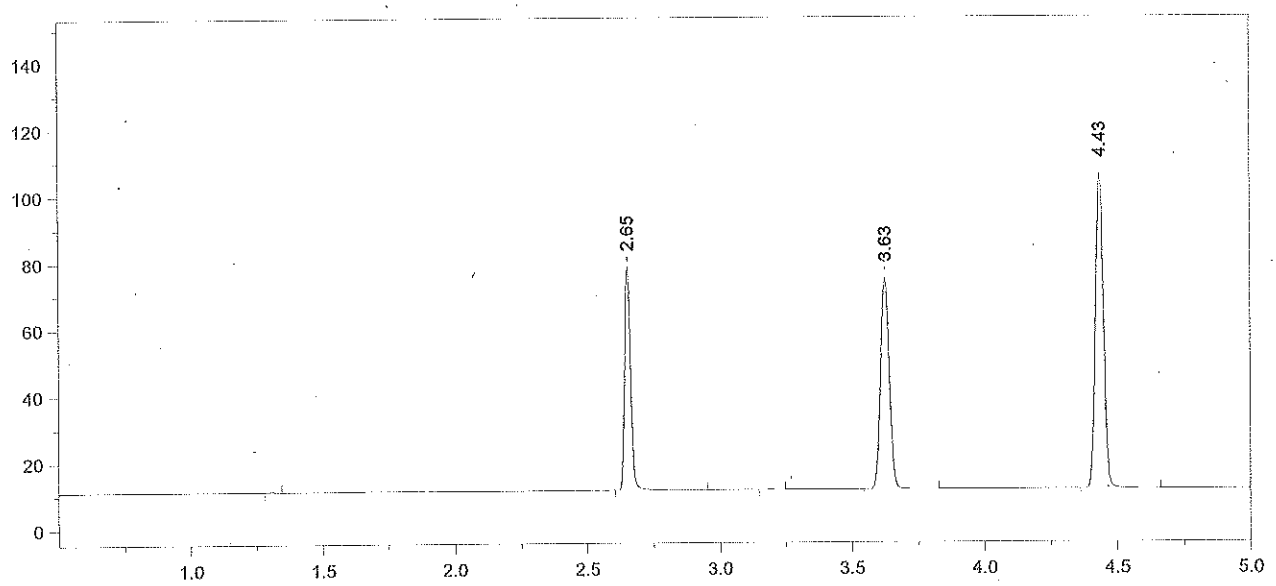


Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/31/2013
Today's Time = 5:38:18 PM
Bound File Name = VFL10312013.0014.RAW
Sample Name = 0.08 ALB
Date Taken = 10/31/2013 5:38:11 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	109869	0.0980	0.0800
4	3.63	t-Butanol	163115	1.0143	0.8278
5	4.44	n-Propanol	214661	1.0000	0.8162

13-15-087 60

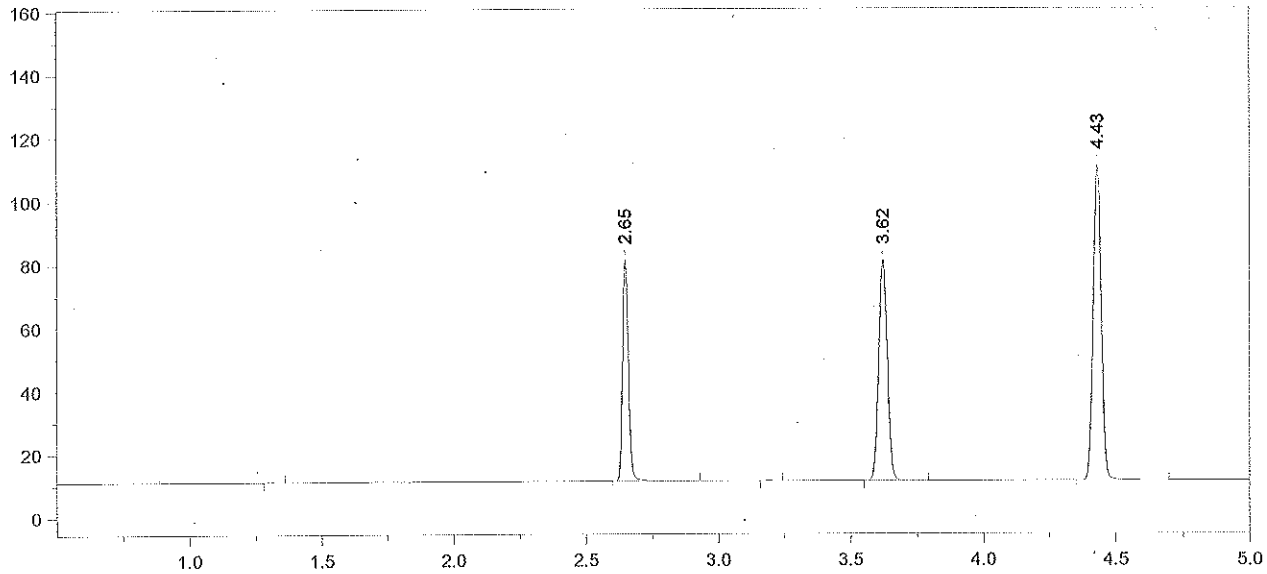


Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/31/2013
Today's Time = 5:54:10 PM
Bound File Name = VFL10312013.0015.RAW
Sample Name = 0.08 ALB
Date Taken = 10/31/2013 5:54:04 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	105079	0.1001	0.0817
4	3.63	t-Butanol	147197	0.9778	0.7981
5	4.43	n-Propanol	200937	1.0000	0.8162

13-18-080 61 RB



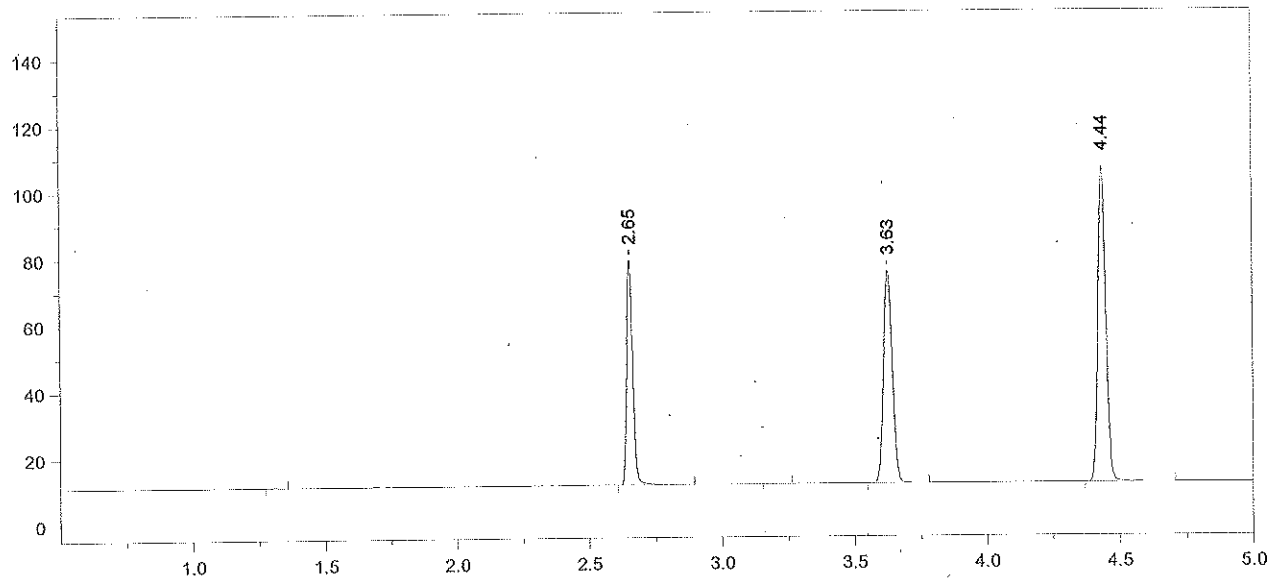
Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/31/2013
Today's Time = 6:08:33 PM
Bound File Name = VFL10312013.0016.RAW
Sample Name = 0.08 ALB
Date Taken = 10/31/2013 6:08:25 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	109326	0.0986	0.0805
4	3.62	t-Butanol	161808	1.0176	0.8306
5	4.43	n-Propanol	212233	1.0000	0.8162

13-18-080 62

Chrom Perfect Chromatogram Report

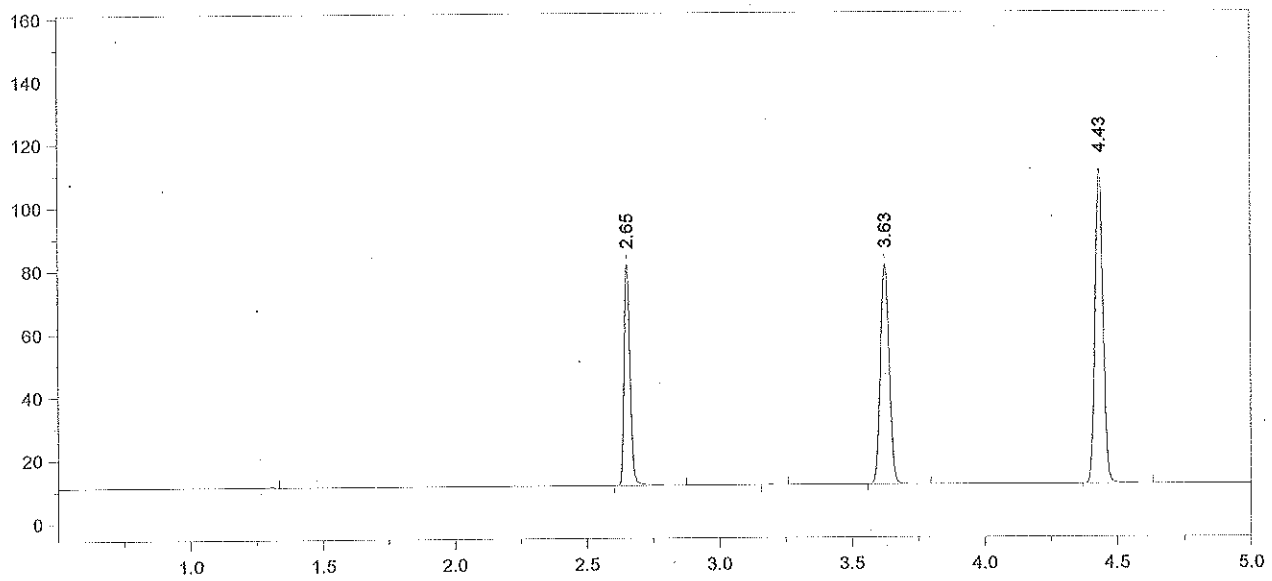


Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/31/2013
Today's Time = 6:24:26 PM
Bound File Name = VFL10312013.0017.RAW
Sample Name = 0.08 ALB
Date Taken = 10/31/2013 6:24:19 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	105661	0.1007	0.0822
4	3.63	t-Butanol	147873	0.9830	0.8023
5	4.44	n-Propanol	200799	1.0000	0.8162

13-18-080 63 Alc

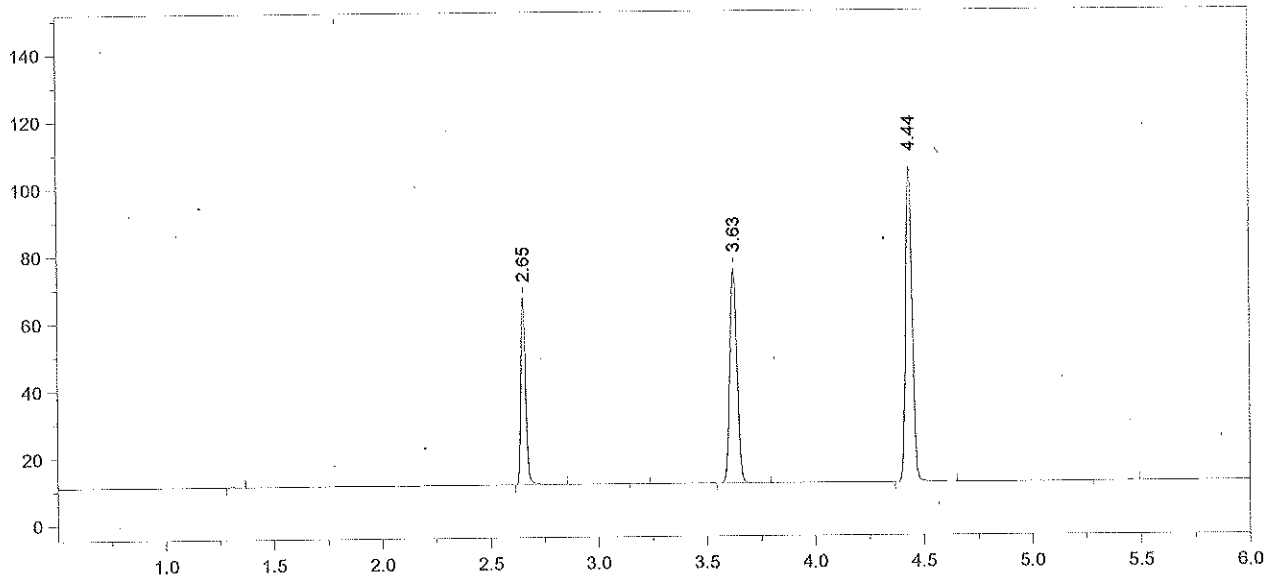


Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/31/2013
Today's Time = 6:40:26 PM
Bound File Name = VFL10312013.0018.RAW
Sample Name = 0.08 ALB
Date Taken = 10/31/2013 6:40:22 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	109374	0.0989	0.0807
4	3.63	t-Butanol	161704	1.0193	0.8319
5	4.43	n-Propanol	211751	1.0000	0.8162

13-18-080 64

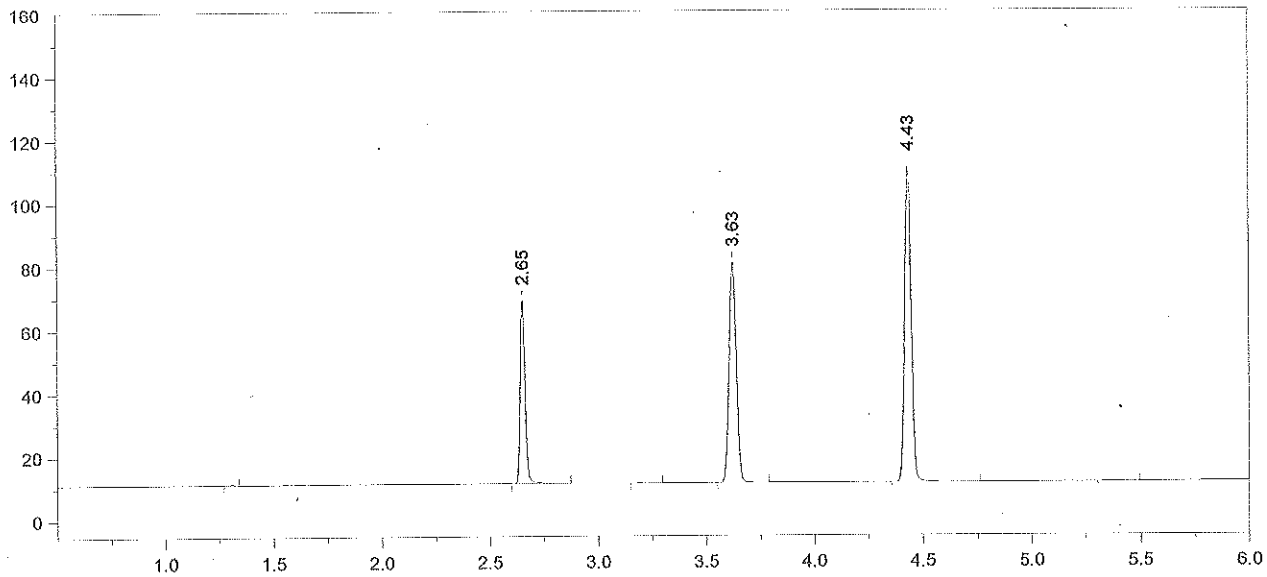


Format File Name = AlcoholVFL.FMT

Today's Date = 10/31/2013
Today's Time = 6:54:38 PM
Bound File Name = VFL10312013.0019.RAW
Sample Name = CCS
Date Taken = 10/31/2013 6:54:33 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	86447	0.0825
4	3.63	t-Butanol	147699	0.9831
5	4.44	n-Propanol	200537	1.0000

13-18-080 65



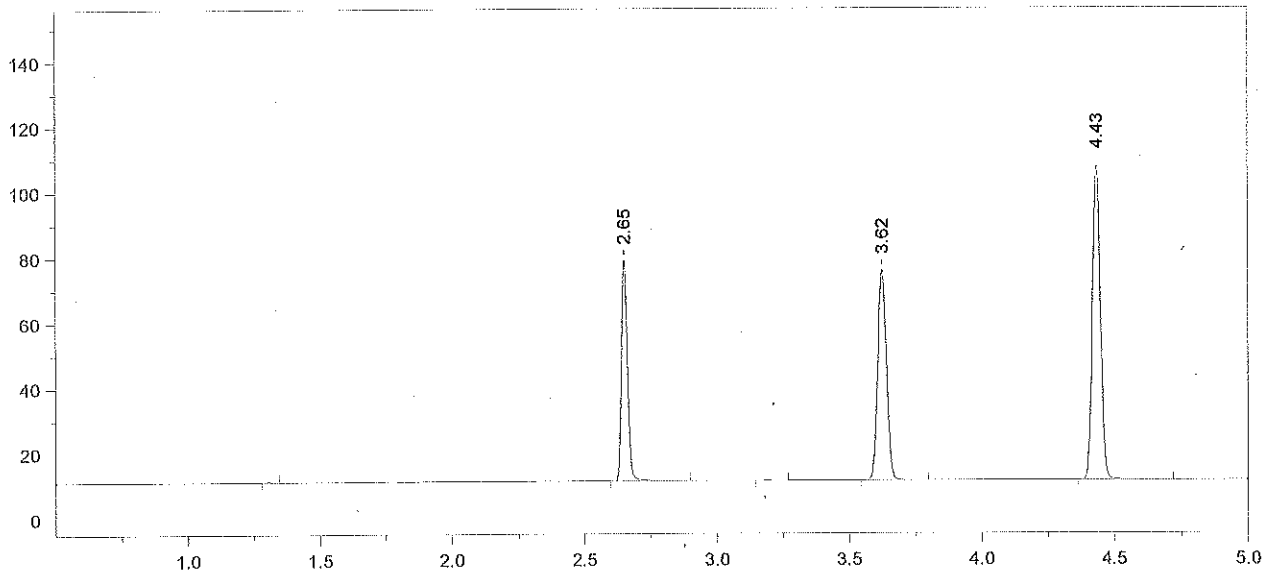
Format File Name = AlcoholVFL.FMT

Today's Date = 10/31/2013
Today's Time = 7:10:15 PM
Bound File Name = VFL10312013.0020.RAW
Sample Name = CCS
Date Taken = 10/31/2013 7:10:06 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	90823	0.0823
4	3.63	t-Butanol	161146	1.0182
5	4.43	n-Propanol	211256	1.0000

Avg vals 19+20 = 0.082
11/1/13 [illegible]

13-18-080 6.6 [illegible]

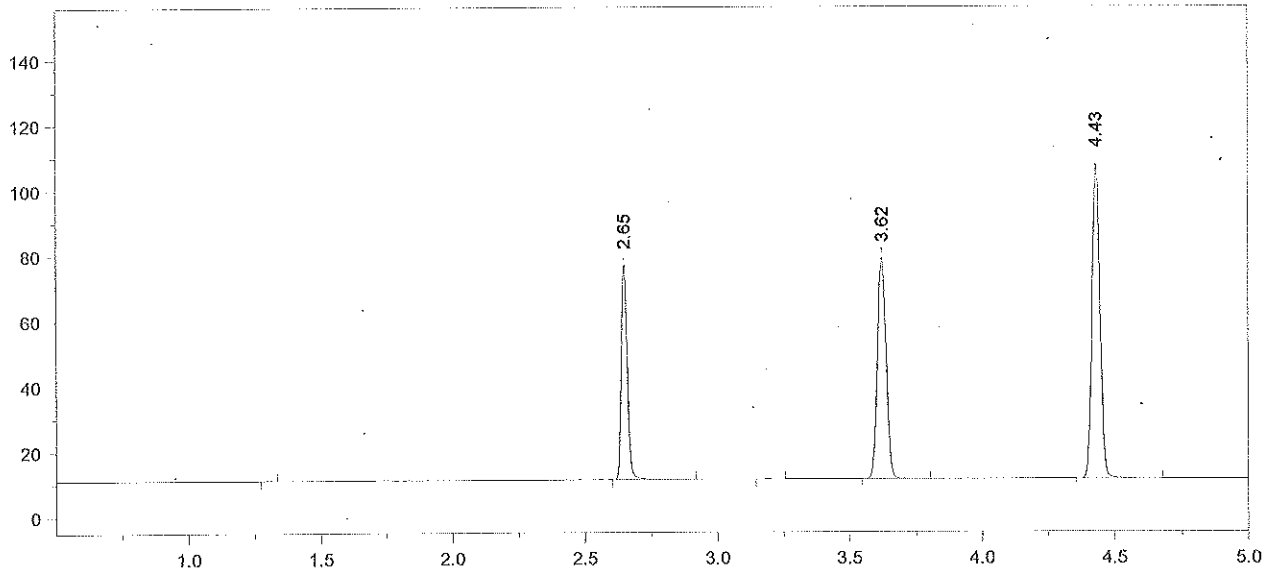


Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/31/2013
Today's Time = 7:25:43 PM
Bound File Name = VFL10312013.0021.RAW
Sample Name = 0.08 RLM
Date Taken = 10/31/2013 7:25:35 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	105545	0.0982	0.0802
4	3.62	t-Butanol	149487	0.9703	0.7920
5	4.43	n-Propanol	205631	1.0000	0.8162

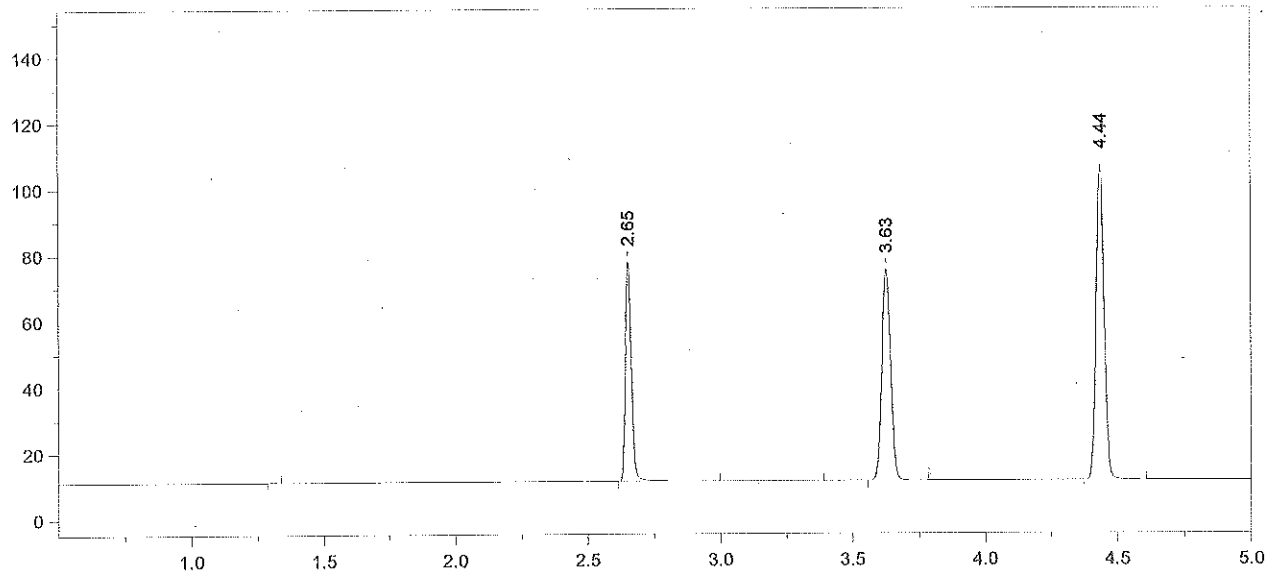
13-18-080 67



Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/31/2013
Today's Time = 7:41:44 PM
Bound File Name = VFL10312013.0022.RAW
Sample Name = 0.08 RLM
Date Taken = 10/31/2013 7:41:39 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10312013.CAL
Calibration Version = 7

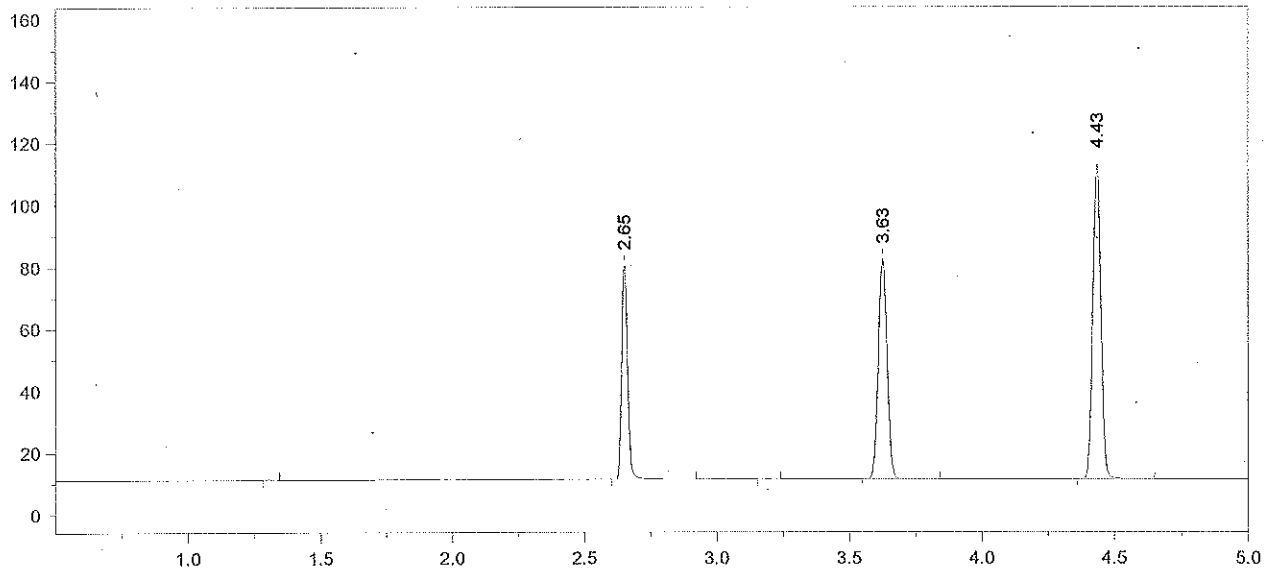
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	103109	0.0965	0.0787
4	3.62	t-Butanol	156900	1.0239	0.8357
5	4.43	n-Propanol	204534	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/31/2013
Today's Time = 7:55:58 PM
Bound File Name = VFL10312013.0023.RAW
Sample Name = 0.08 RLM
Date Taken = 10/31/2013 7:55:54 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount %WT/VOL	Headspace Conversion
2	2.65	Ethanol	103938	0.0983	0.0803
4	3.63	t-Butanol	148364	0.9789	0.7989
5	4.44	n-Propanol	202307	1.0000	0.8162

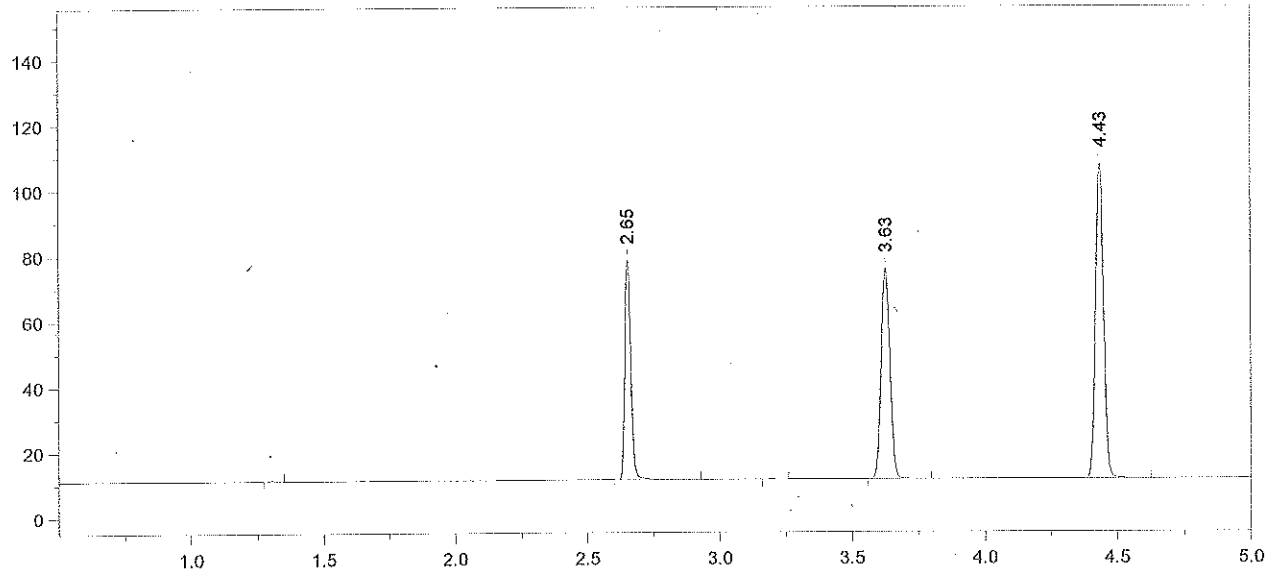


Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/31/2013
Today's Time = 8:11:29 PM
Bound File Name = VFL10312013.0024.RAW
Sample Name = 0.08 RLM
Date Taken = 10/31/2013 8:11:22 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	107848	0.0958	0.0782
4	3.63	t-Butanol	164765	1.0202	0.8327
5	4.43	n-Propanol	215564	1.0000	0.8162

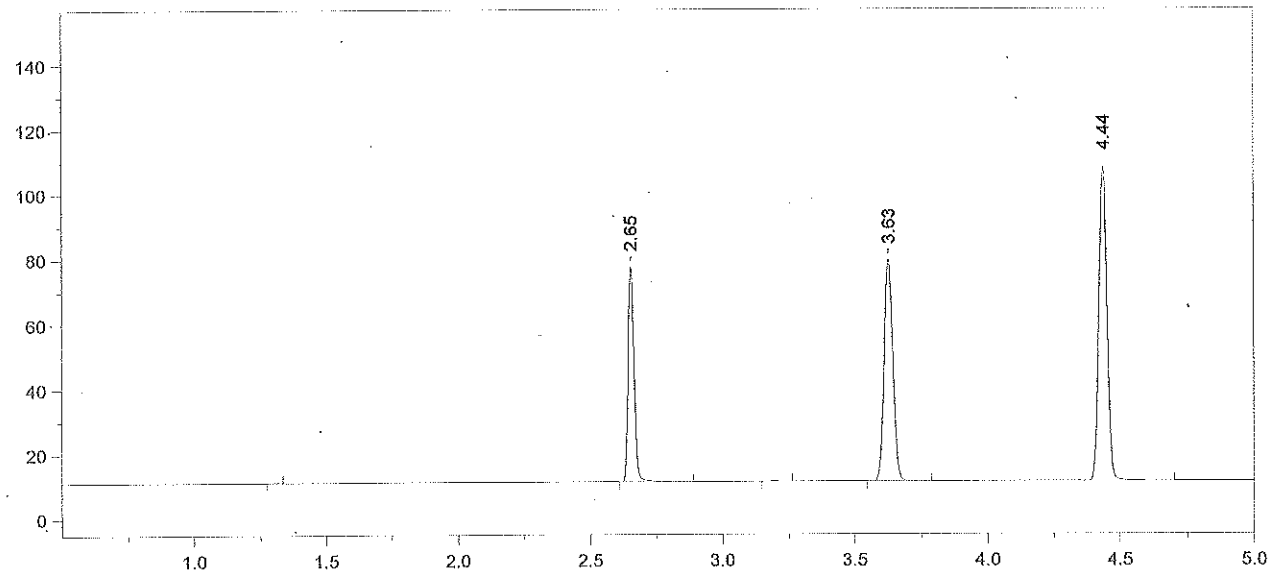
13-18-080 20



Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/31/2013
Today's Time = 8:27:27 PM
Bound File Name = VFL10312013.0025.RAW
Sample Name = 0.08 RLM
Date Taken = 10/31/2013 8:27:18 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10312013.CAL
Calibration Version = 7

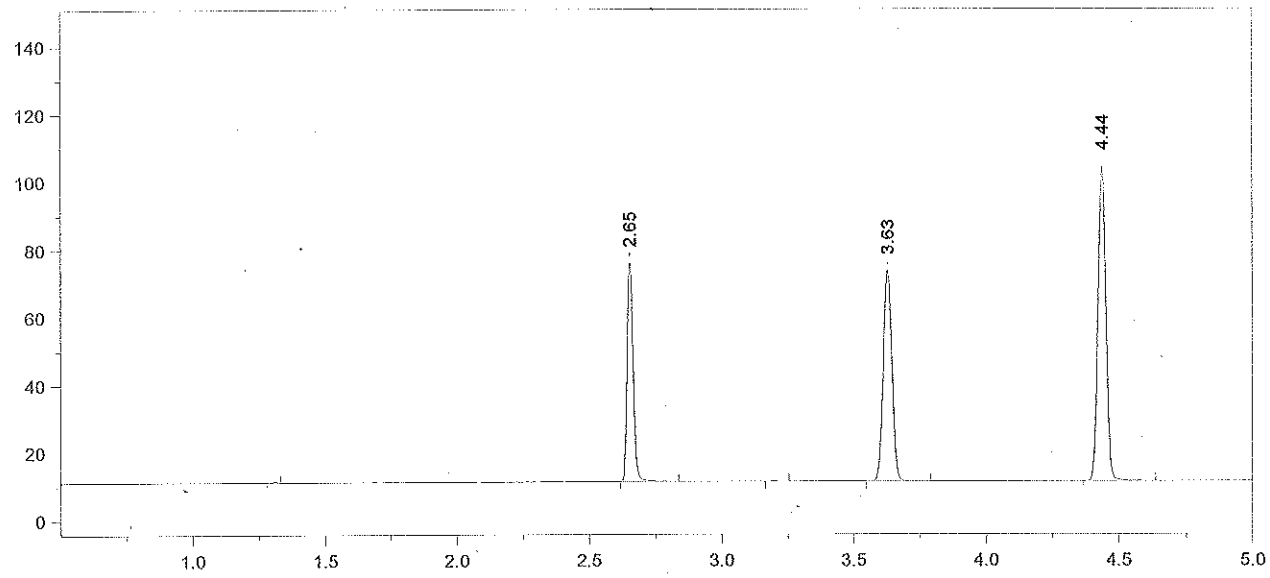
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	104959	0.0983	0.0802
4	3.63	t-Butanol	149058	0.9737	0.7947
5	4.43	n-Propanol	204329	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/31/2013
Today's Time = 8:43:00 PM
Bound File Name = VFL10312013.0026.RAW
Sample Name = 0.08 RLM
Date Taken = 10/31/2013 8:42:52 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	102908	0.0956	0.0780
4	3.63	t-Butanol	158120	1.0244	0.8361
5	4.44	n-Propanol	206029	1.0000	0.8162



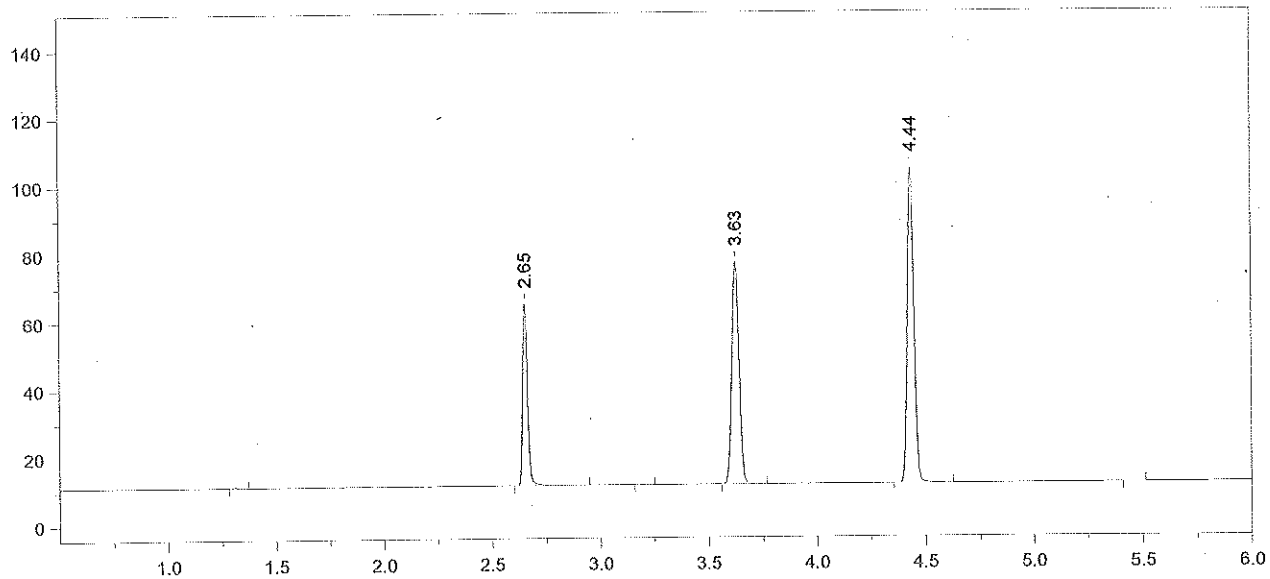
Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/31/2013
Today's Time = 8:57:46 PM
Bound File Name = VFL10312013.0027.RAW
Sample Name = 0.08 RLM
Date Taken = 10/31/2013 8:57:42 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	101223	0.0985	0.0804
4	3.63	t-Butanol	144999	0.9840	0.8032
5	4.44	n-Propanol	196677	1.0000	0.8162

13-18-080 73

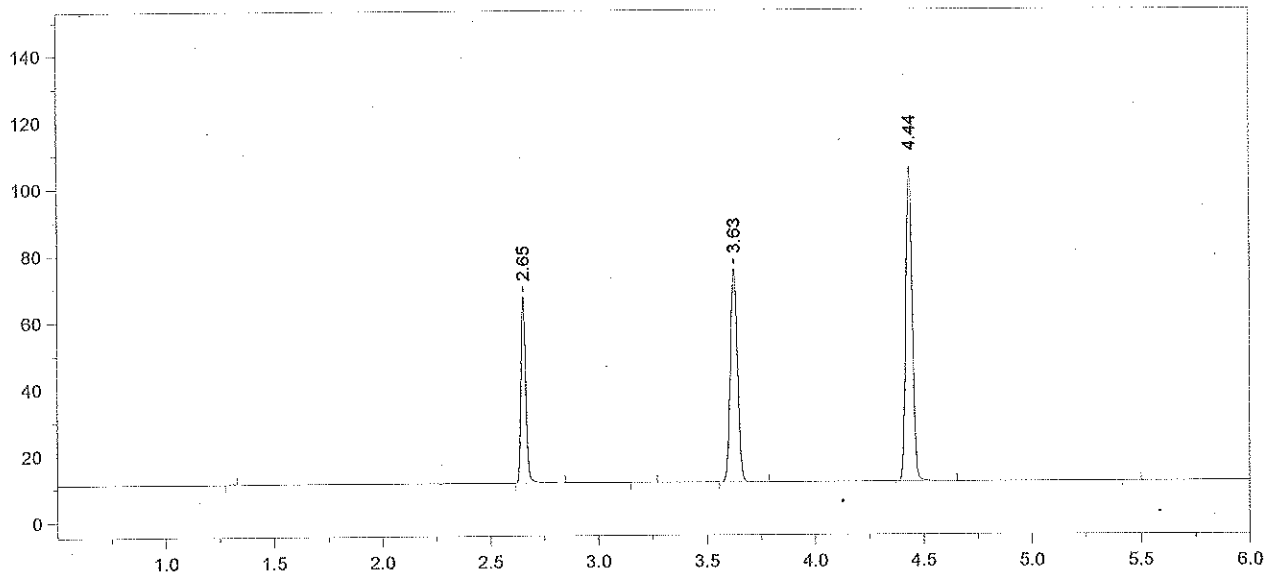
Chrom Perfect Chromatogram Report



Format File Name = AlcoholVFL.FMT

Today's Date = 10/31/2013
Today's Time = 9:14:23 PM
Bound File Name = VFL10312013.0028.RAW
Sample Name = CCS
Date Taken = 10/31/2013 9:14:16 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	83969	0.0816
4	3.63	t-Butanol	151553	1.0276
5	4.44	n-Propanol	196858	1.0000



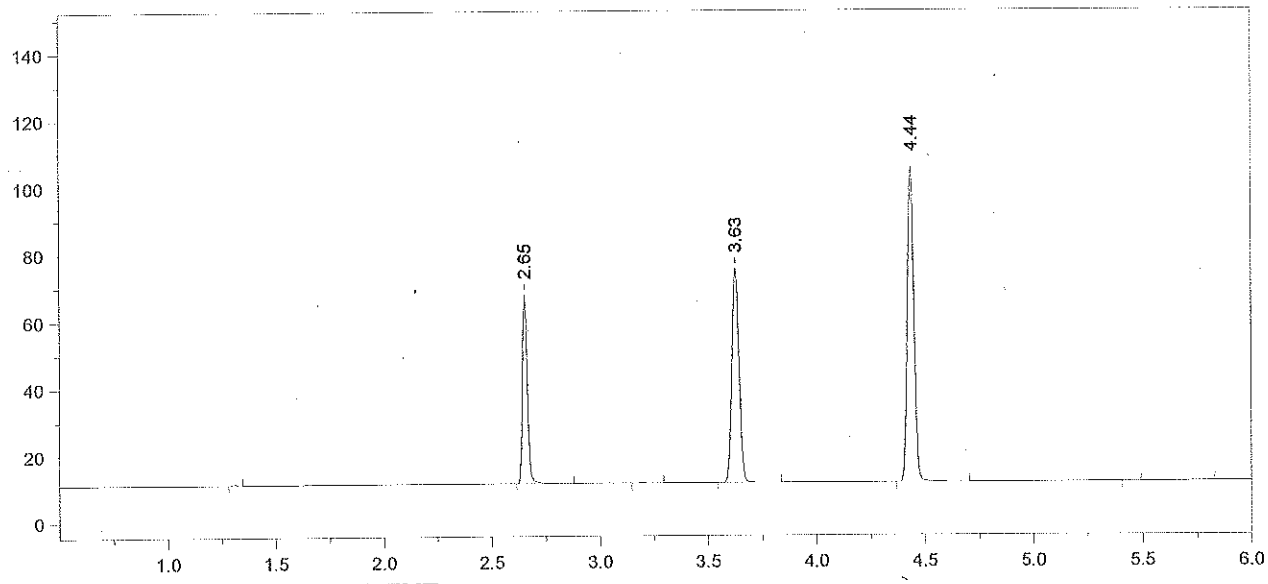
Format File Name = AlcoholVFL.FMT

Today's Date = 10/31/2013
Today's Time = 9:28:11 PM
Bound File Name = VFL10312013.0029.RAW
Sample Name = CCS
Date Taken = 10/31/2013 9:28:04 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	86919	0.0826
4	3.63	t-Butanol	147864	0.9805
5	4.44	n-Propanol	201283	1.0000

Avg vials 28+ 29 = 0.082
11/1/13
[illegible]

13-18-080 75 [illegible]



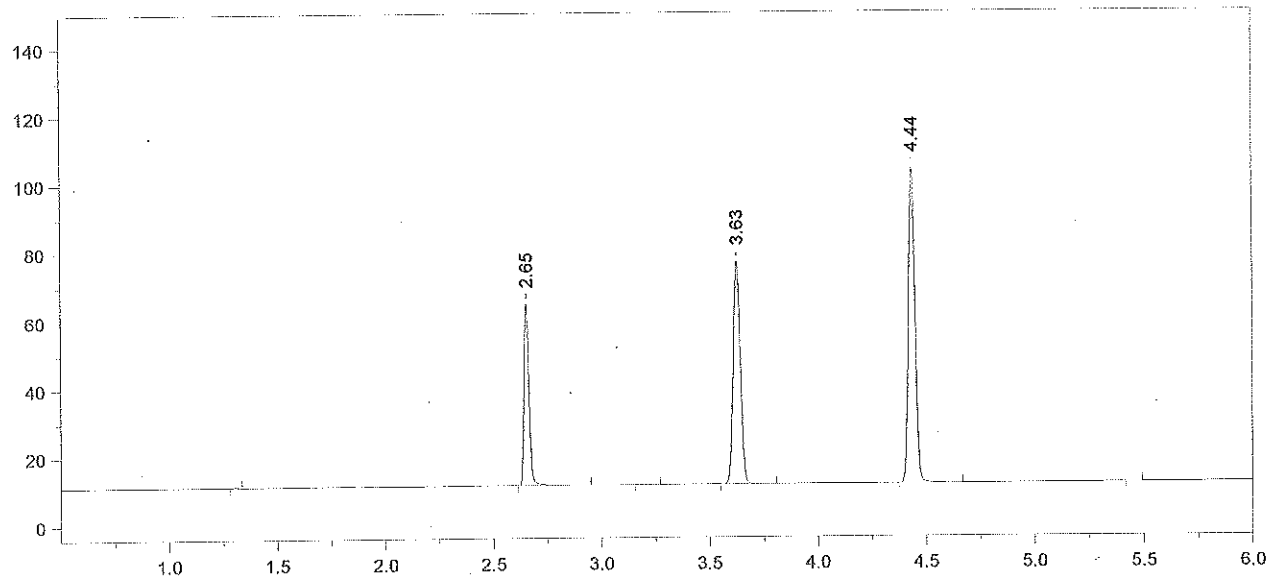
Format File Name = AlcoholVFL.FMT

Today's Date = 10/31/2013
Today's Time = 11:34:05 PM
Bound File Name = VFL10312013.0037.RAW
Sample Name = CCS
Date Taken = 10/31/2013 11:33:57 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	87568	0.0838
4	3.63	t-Butanol	147715	0.9857
5	4.44	n-Propanol	200020	1.0000

13-18-1080 76 Alc

Chrom Perfect Chromatogram Report



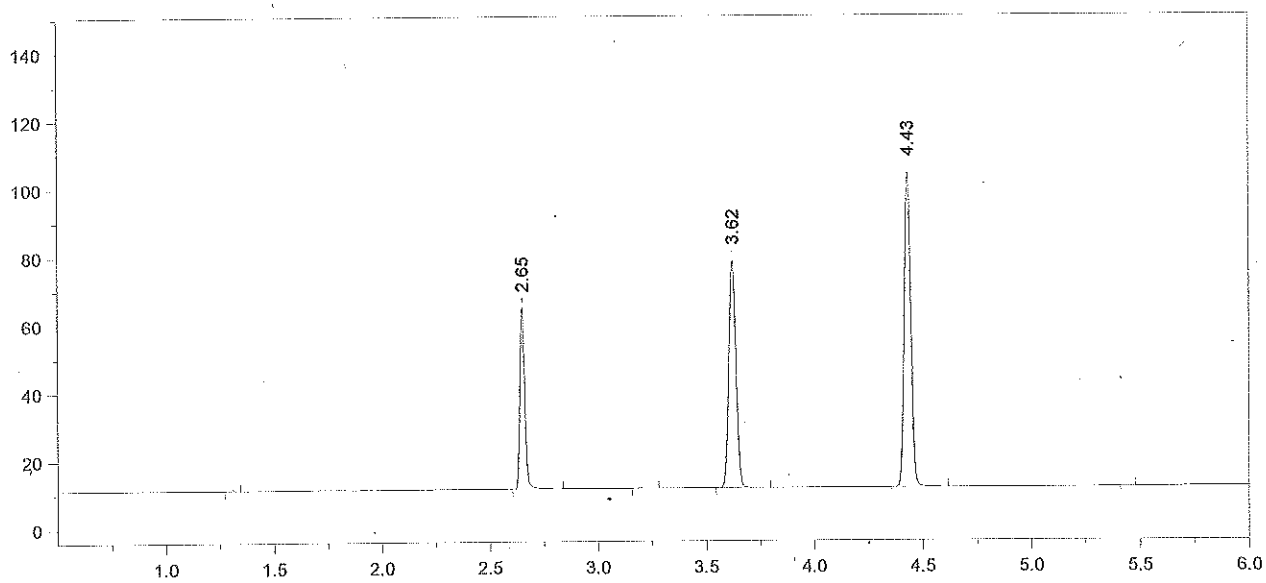
Format File Name = AlcoholVFL.FMT

Today's Date = 10/31/2013
Today's Time = 11:51:40 PM
Bound File Name = VFL10312013.0038.RAW
Sample Name = CCS
Date Taken = 10/31/2013 11:51:35 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	83987	0.0821
4	3.63	t-Butanol	151633	1.0343
5	4.44	n-Propanol	195680	1.0000

Avg vials 37 + 38 - 0.083
11/1/13
[illegible]

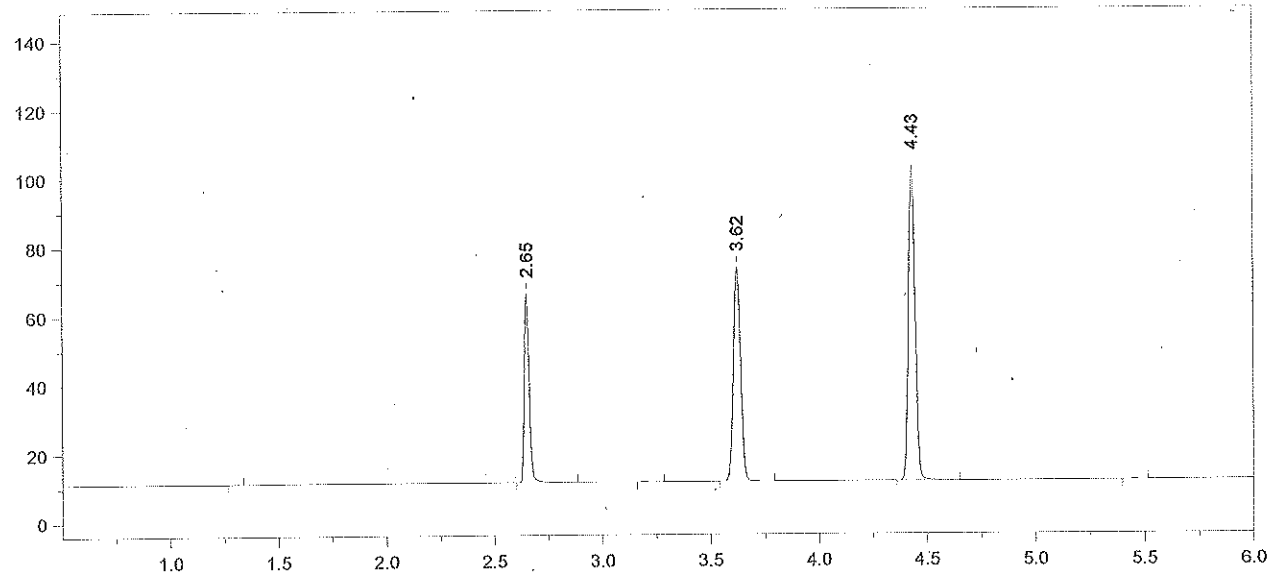
13-18-082 72 [illegible]



Format File Name = AlcoholVFL.FMT

Today's Date = 11/1/2013
Today's Time = 1:57:30 AM
Bound File Name = VFL10312013.0046.RAW
Sample Name = CCS
Date Taken = 11/1/2013 1:57:25 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	82851	0.0801
4	3.62	t-Butanol	154721	1.0433
5	4.43	n-Propanol	197952	1.0000



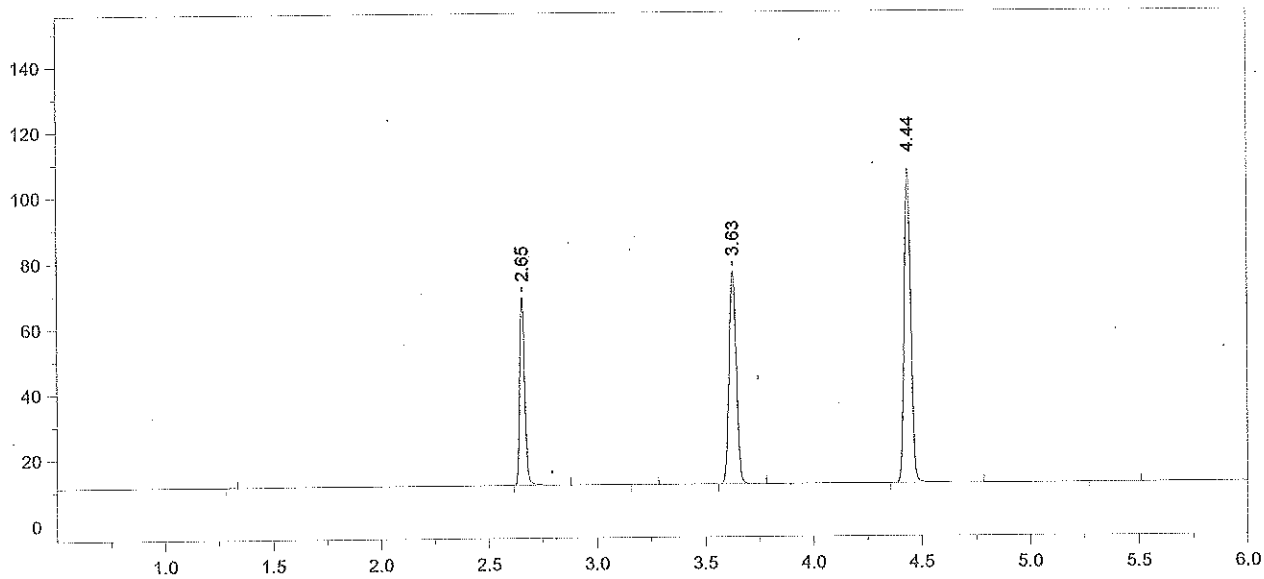
Format File Name = AlcoholVFL.FMT

Today's Date = 11/1/2013
Today's Time = 2:11:24 AM
Bound File Name = VFL10312013.0047.RAW
Sample Name = CCS
Date Taken = 11/1/2013 2:11:16 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	85597	0.0841
4	3.62	t-Butanol	144045	0.9876
5	4.43	n-Propanol	194688	1.0000

Avg vials 46 + 47 = 0.082
11/1/13
[illegible]

13-18-0050 79 [illegible]

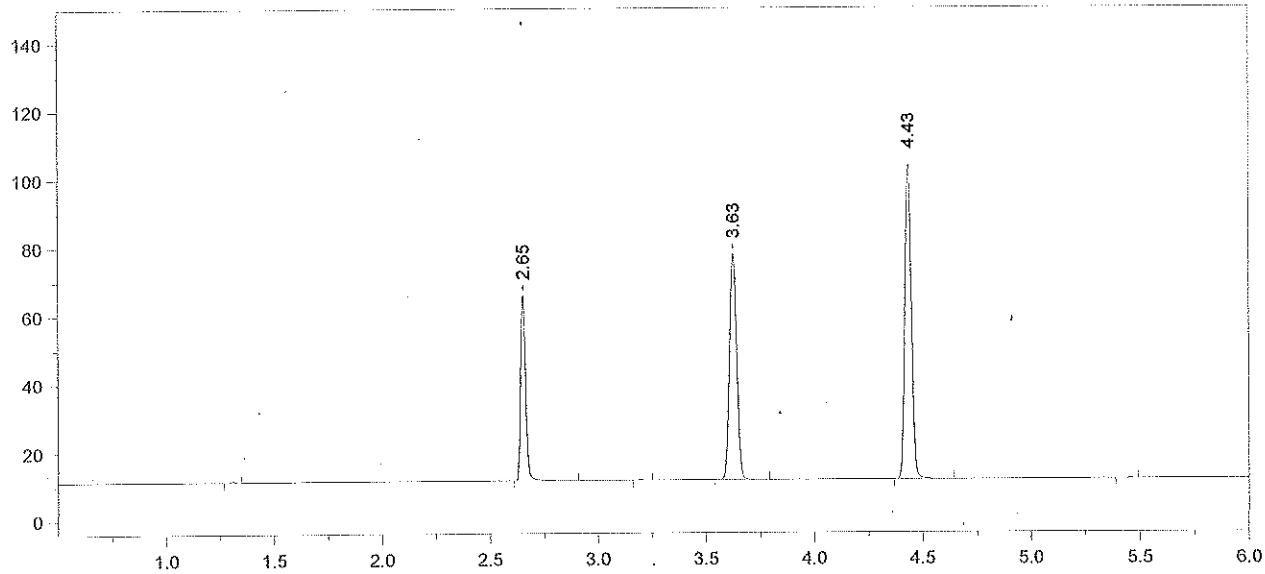


Format File Name = AlcoholVFL.FMT

Today's Date = 11/1/2013
Today's Time = 4:17:15 AM
Bound File Name = VFL10312013.0055.RAW
Sample Name = CCS
Date Taken = 11/1/2013 4:17:05 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	90528	0.0849
4	3.63	t-Butanol	150623	0.9850
5	4.44	n-Propanol	204098	1.0000

Chrom Perfect Chromatogram Report



Format File Name = AlcoholVFL.FMT

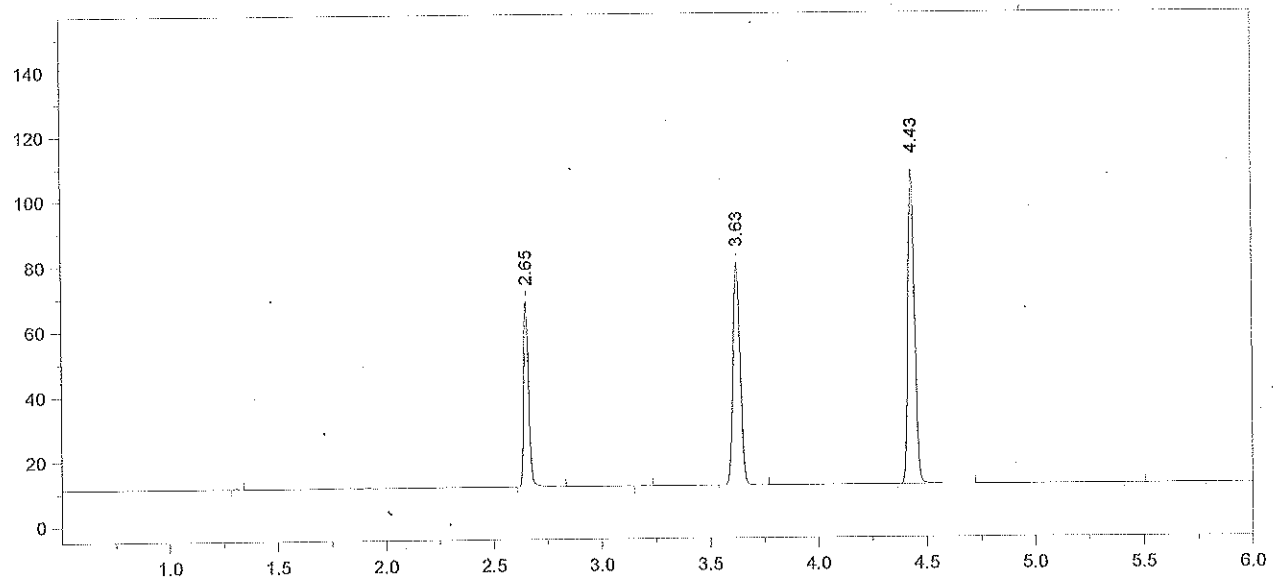
Today's Date = 11/1/2013
Today's Time = 4:34:41 AM
Bound File Name = VFL10312013.0056.RAW
Sample Name = CCS
Date Taken = 11/1/2013 4:34:37 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	84914	0.0828
4	3.63	t-Butanol	153341	1.0427
5	4.43	n-Propanol	196287	1.0000

Avg vials 55 + 56 = 0.084
4/1/13 [illegible]

13-18-080 81 [illegible]

Chrom Perfect Chromatogram Report



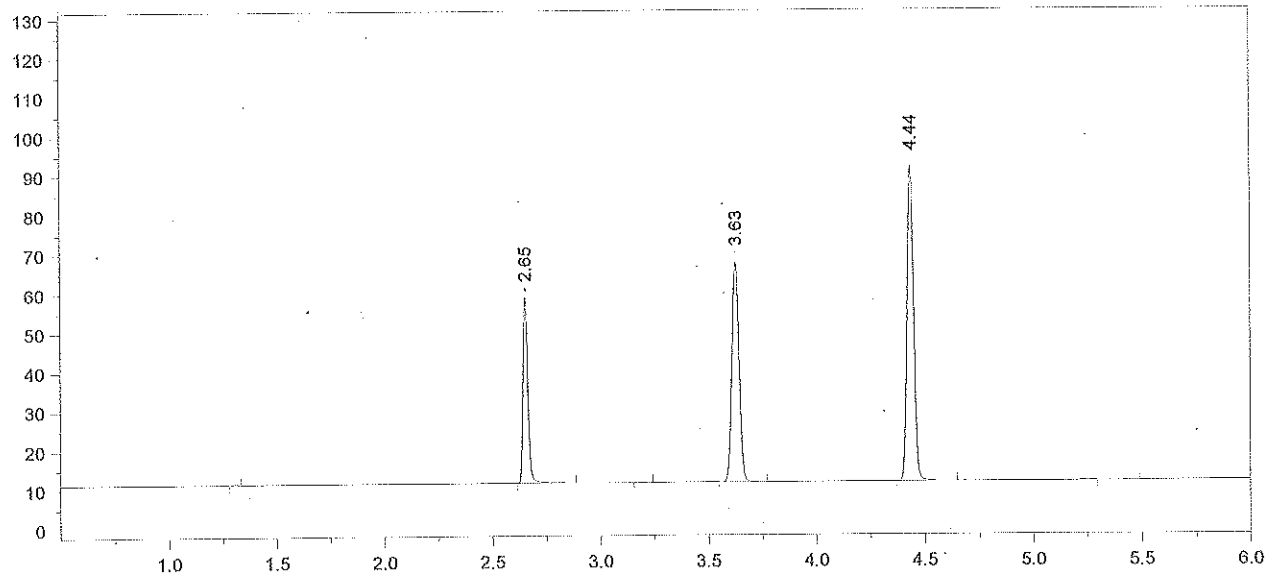
Format File Name = AlcoholVFL.FMT

Today's Date = 11/1/2013
Today's Time = 6:40:32 AM
Bound File Name = VFL10312013.0064.RAW
Sample Name = CCS
Date Taken = 11/1/2013 6:40:22 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	89329	0.0832
4	3.63	t-Butanol	158549	1.0296
5	4.43	n-Propanol	205532	1.0000

13-18-080

Chrom Perfect Chromatogram Report



Format File Name = AlcoholVFL.FMT

Today's Date = 11/1/2013
Today's Time = 6:54:25 AM
Bound File Name = VFL10312013.0065.RAW
Sample Name = CCS
Date Taken = 11/1/2013 6:54:15 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	74038	0.0831
4	3.63	t-Butanol	130002	1.0176
5	4.44	n-Propanol	170516	1.0000

Avg vials 64 + 65 = 0.083
11/1/13