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 13-20-400 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 0.400 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

0.4 Certification Solution 2L
Lot # 13-20-400
Prepared 10/25/2013 by RLM
Exp 10/25/2014

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

0.3983 ALB
0.4101
0.4005
0.4088
0.3956
0.4118
0.3910
0.3966 RLM
0.3878
0.3994
0.3897
0.4009
0.3903
0.4025

Ave. = 0.3988
Std Dev. = 0.0077
Range = 0.3878 - 0.4118

ALB CAL VFL10312013
RLM/ALB Vials
Analyzed on 10/31/13

0.3968 alb
0.4099
0.3974
0.4089
0.3969
0.4069
0.3923
0.4057 rlm
0.3939
0.4024
0.3942
0.4038
0.3955
0.4035

Ave. = 0.4006
Std Dev. = 0.0060
Range = 0.3923 - 0.4099

Total Values from Both Runs

Average	Mean
0.3878	0.3878
0.3897	0.3897
0.3903	0.3903
0.3910	0.3910
0.3923	0.3923
0.3939	0.3939
0.3942	0.3942
0.3955	0.3955
0.3956	0.3956
0.3966	0.3966
0.3968	0.3968
0.3969	0.3969
0.3974	0.3974
0.3983	0.3983
0.3994	0.3994
0.4005	0.4005
0.4009	0.4009
0.4024	0.4024
0.4025	0.4025
0.4035	0.4035
0.4038	0.4038
0.4057	0.4057
0.4069	0.4069
0.4088	0.4088
0.4089	0.4089
0.4099	0.4099
0.4101	0.4101
0.4118	0.4118

Ave. = 0.3997
Avg Std Dev. = 0.0068
Mean = 0.3997
Mean Std Dev. = 0.0068
Range = 0.3787 - 0.4118
RPD = 8.28%

0.400
ALB
11/5/13

11/4/2013

Headspace Alcohol Analysis Standards Coversheet

Analyst: AeB Date: 10/28/13

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	1.92		
		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	~~0.0897~~	Y N	
9	Aqueous QC		0.0802	Y N	$\bar{x}$ = 0.080 100%

Chrom Perfect Sequence File

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

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

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

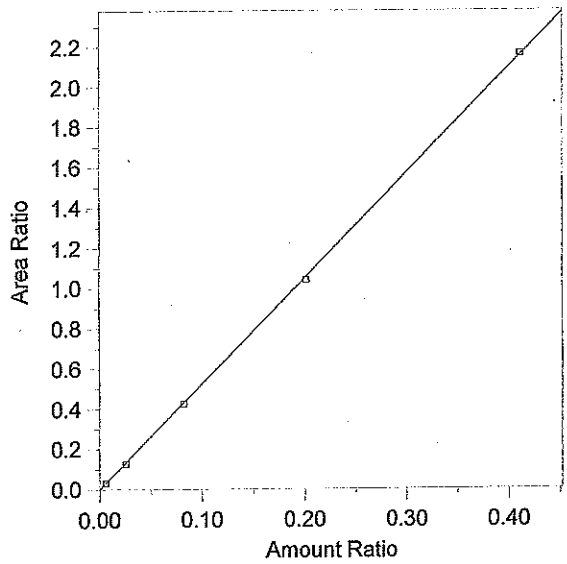
Creator:
Description:
Reason for change:

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

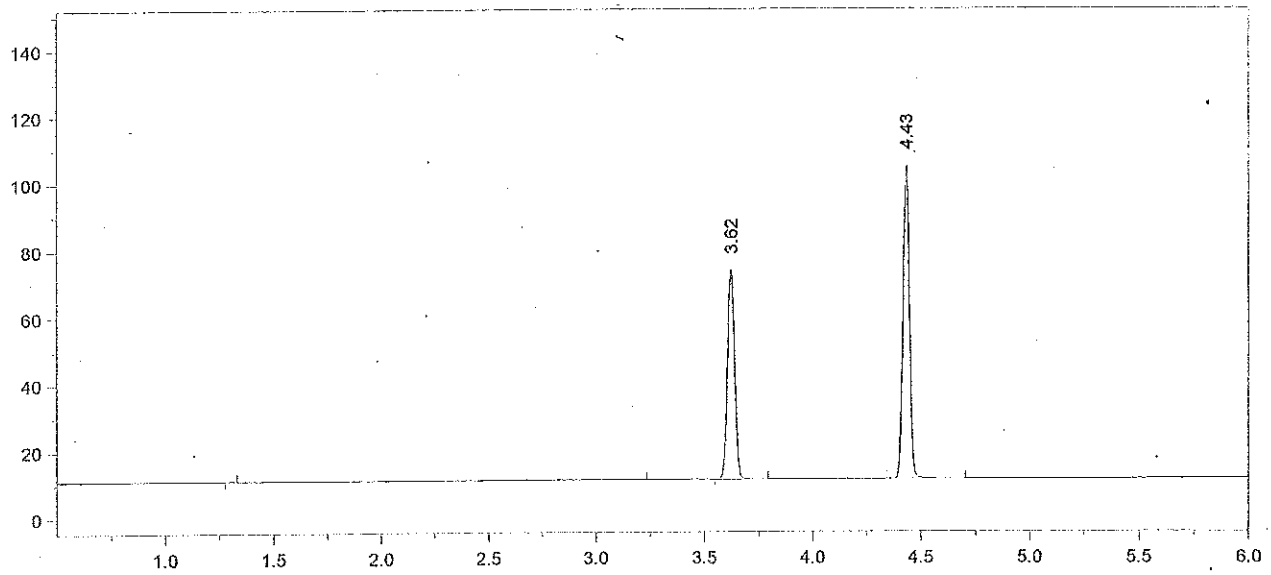
Single peak quantification by area

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%

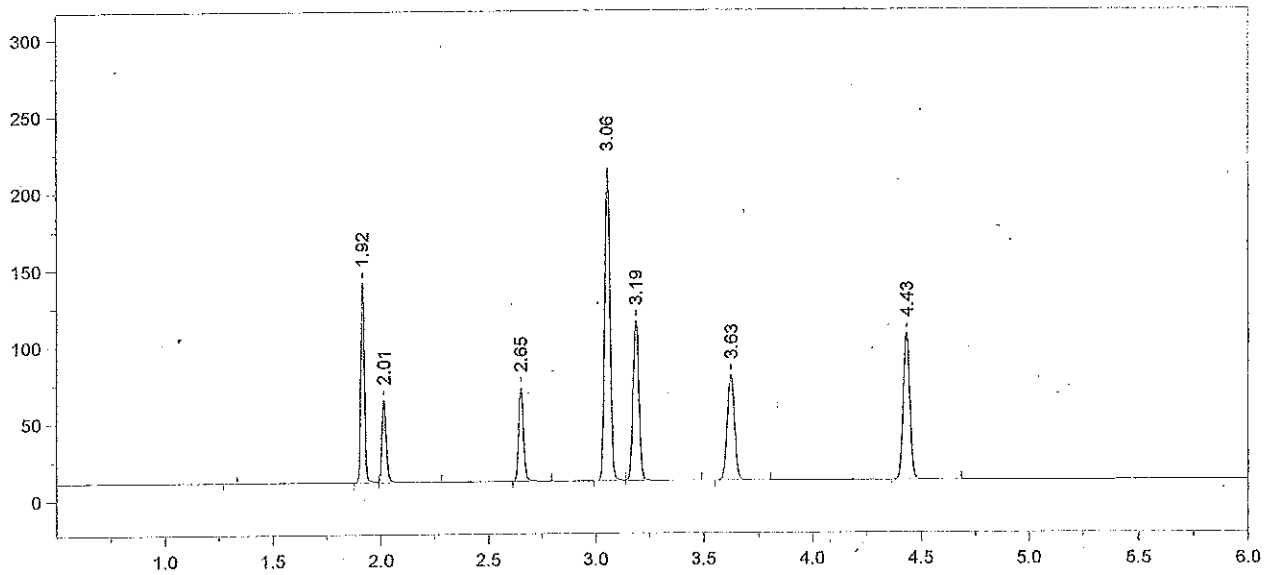
Level	Amount	Response	Cal Factor	Error, %	Amount Ratio	Response Ratio	Source	Date and time
1	(0.091)	(85146)	--	--	0.091	85146	Manual	8/12/2013 4:03:34 PM
2	0.0063	6884.689	1092808	0.878	0.0063	3.329168E-02	C:\Alcohol Data\VFL10282013\VFL10282013.0003.BND	10/28/2013 11:30:04 AI
3	0.0254	26516.83	1043970	-5.415	0.0254	0.1258502	C:\Alcohol Data\VFL10282013\VFL10282013.0004.BND	10/28/2013 11:46:37 AI
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 PN
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 PN
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 PN



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

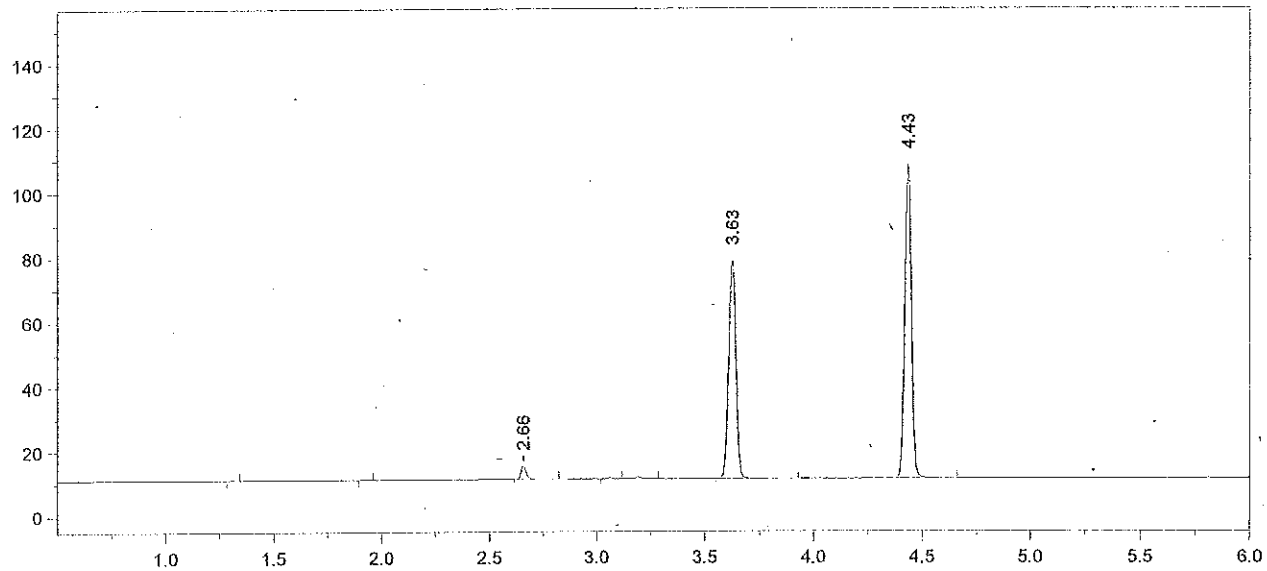
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	3.62	t-Butanol	145441	0.9603
4	4.43	n-Propanol	197451	1.0000



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

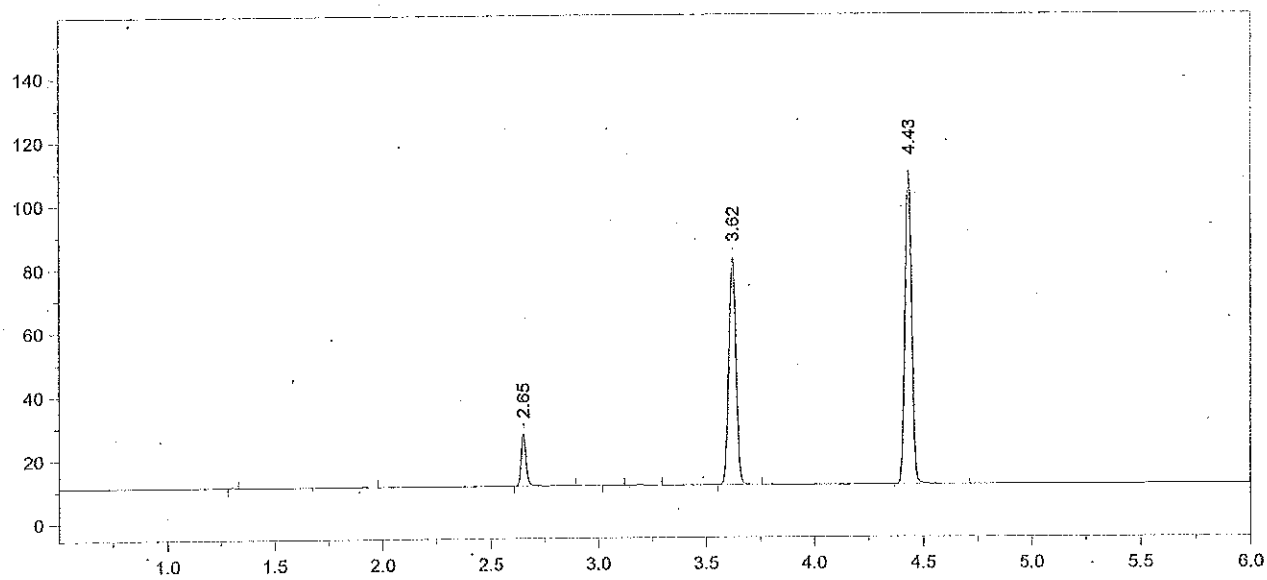
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	1.92	Acetaldehyde	153801	0.0520
3	2.01	Methanol	68956	0.1370
4	2.65	Ethanol	94765	0.0888
5	3.06	Acetone	350309	0.0940
6	3.19	Isopropanol	196433	0.0850
7	3.63	t-Butanol	158737	1.0156
8	4.43	n-Propanol	203774	1.0000



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

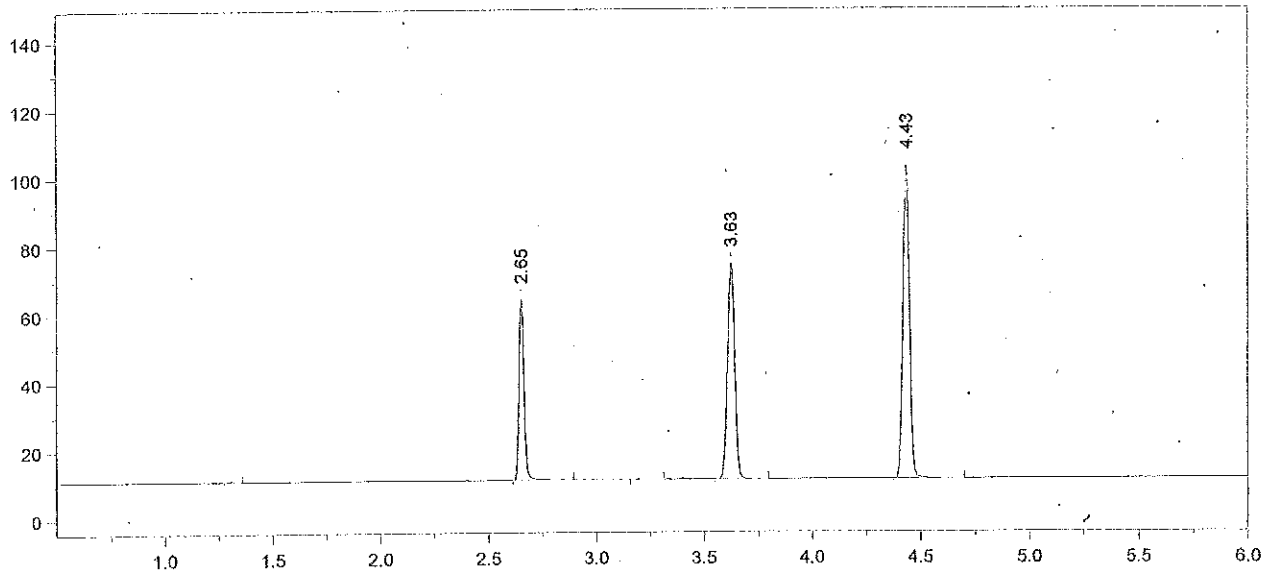
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	06885	0.0064
6	3.63	t-Butanol	156057	0.9838
7	4.43	n-Propanol	206799	1.0000



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

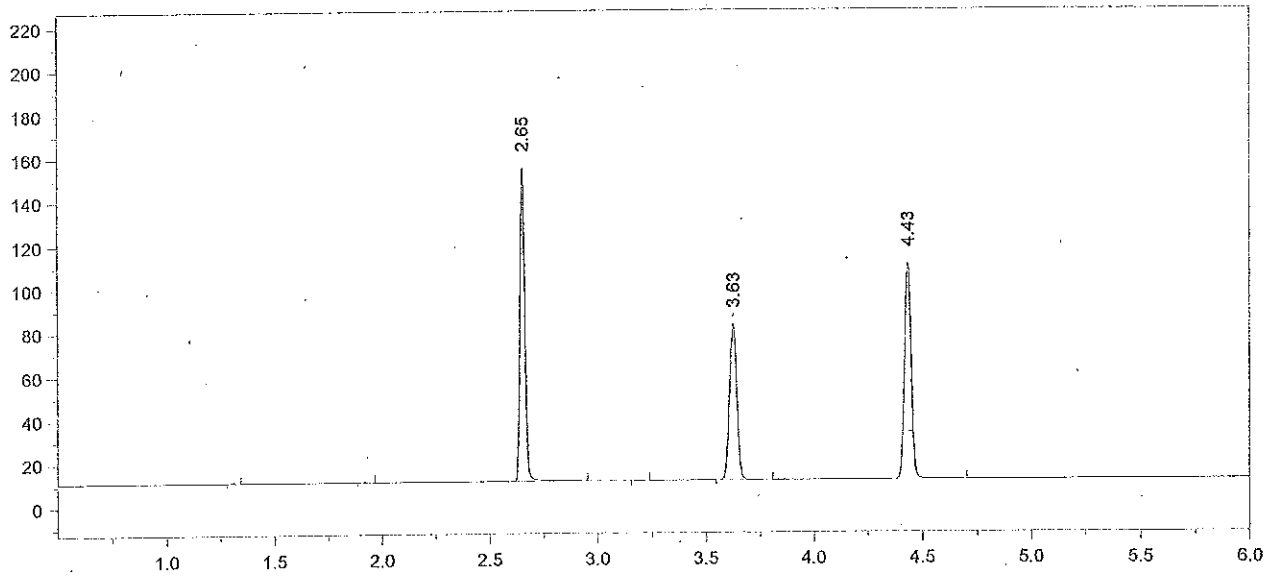
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	26517	0.0240
6	3.62	t-Butanol	164957	1.0207
7	4.43	n-Propanol	210702	1.0000



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



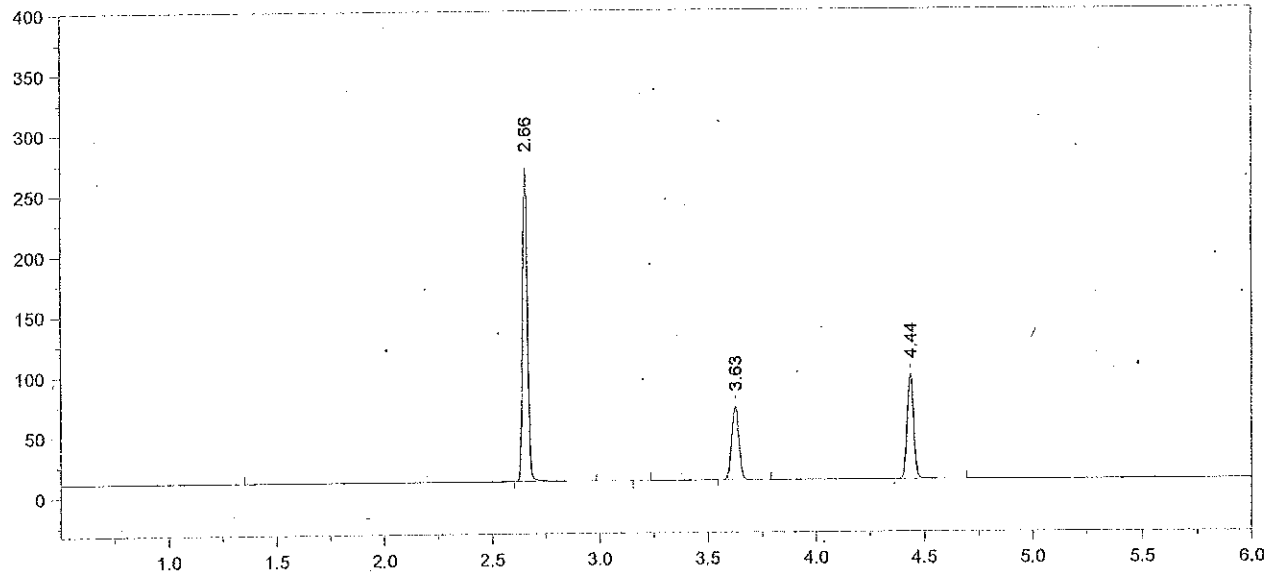
Format File Name = AlcoholVFL.FMT

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

13-20-400

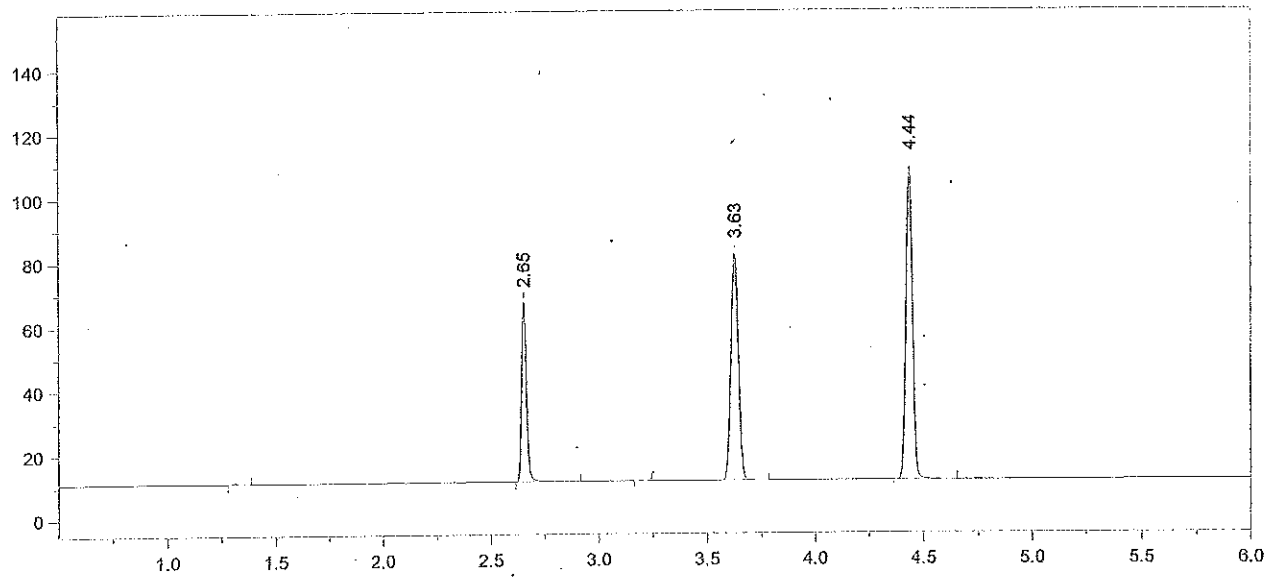
Chrom Perfect Chromatogram Report



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

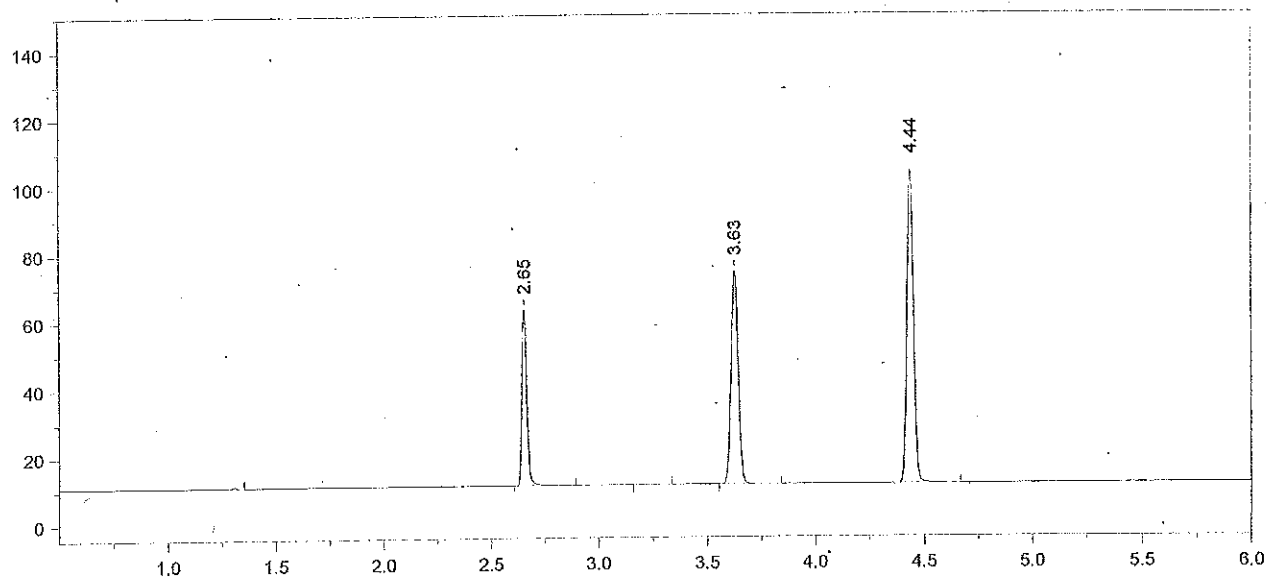


Format File Name = AlcoholVFL.FMT

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

Chrom Perfect Chromatogram Report



Format File Name = AlcoholVFL.FMT

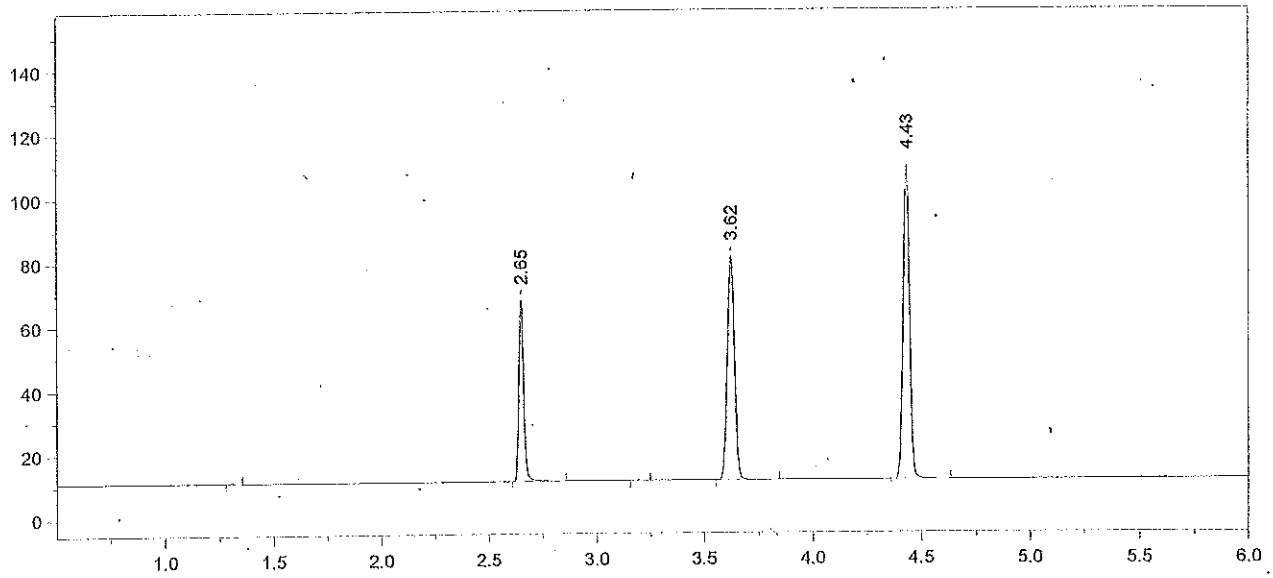
Today's Date = 10/28/2013
Today's Time = 1:03:12 PM
Bound File Name = VFL10282013.0009.RAW
Sample Name = AQ QC
Date Taken = 10/28/2013 1:03:02 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10282013.CAL
Calibration Version = 7

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]

13-2.0-401 14 [illegible]

Chrom Perfect Chromatogram Report

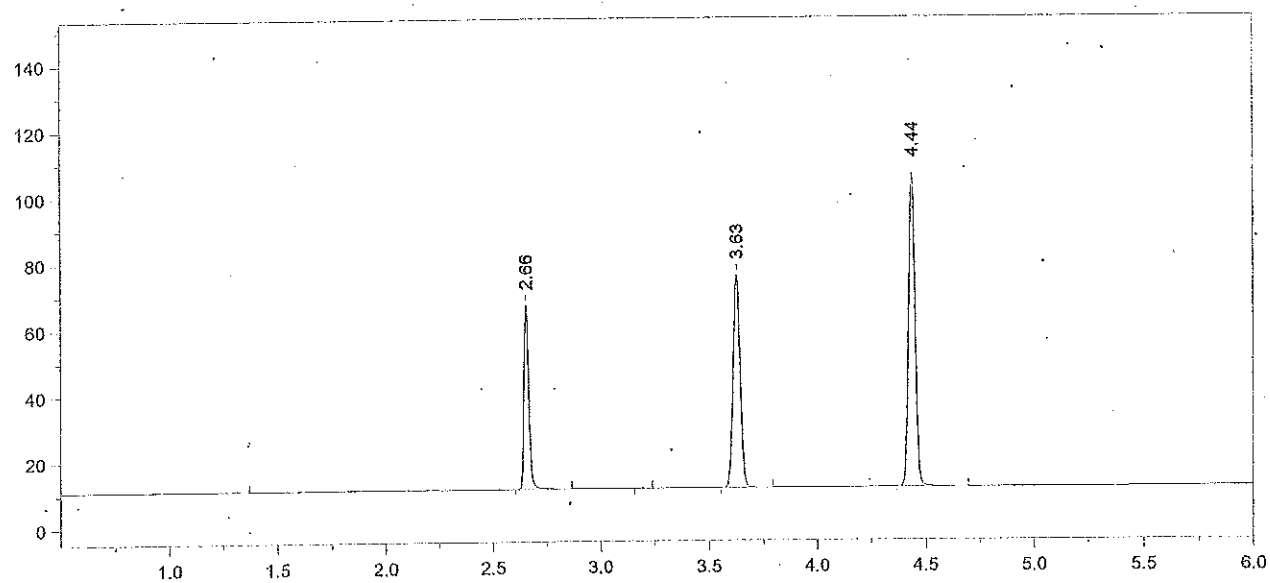


Format File Name = AlcoholVFL.FMT

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

Chrom Perfect Chromatogram Report



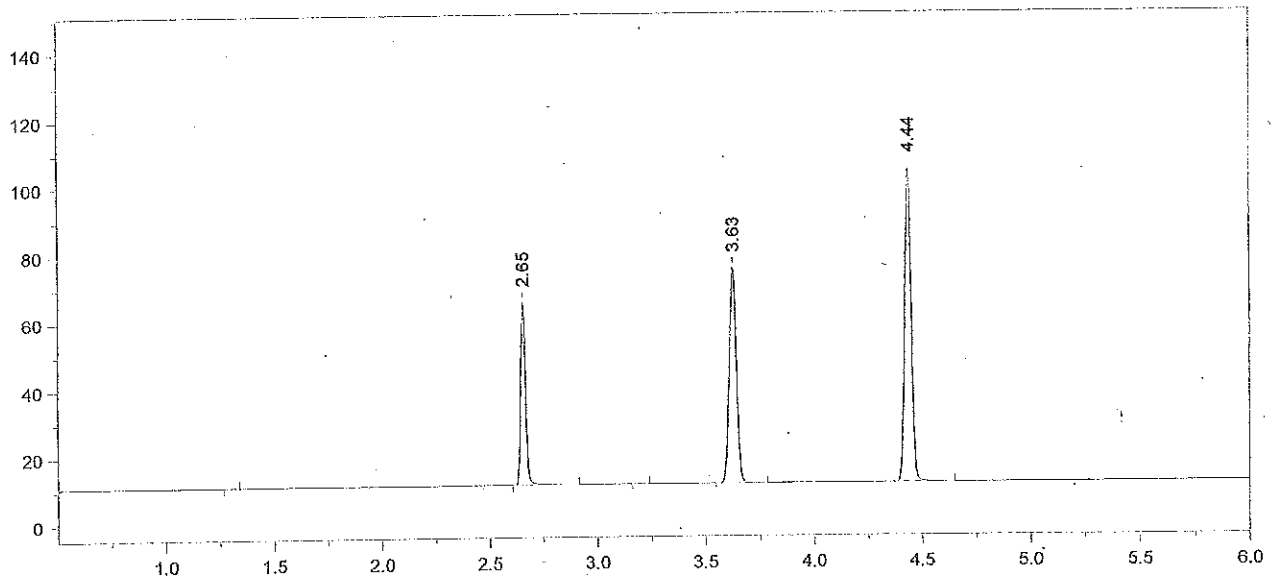
Format File Name = AlcoholVFL.FMT

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

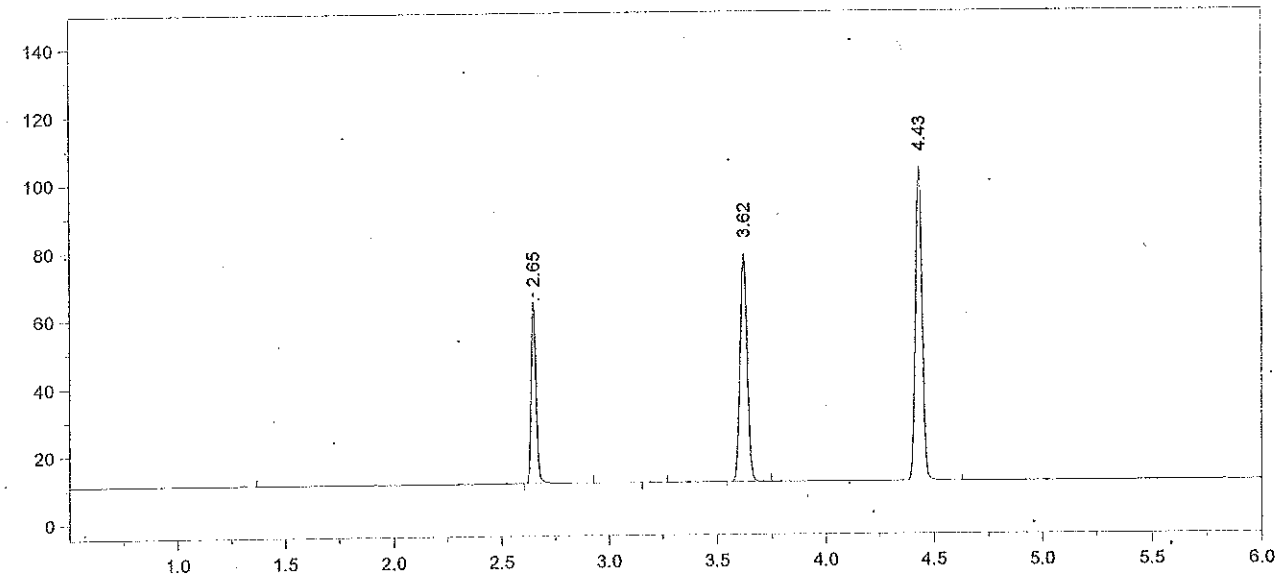
10/28/13



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



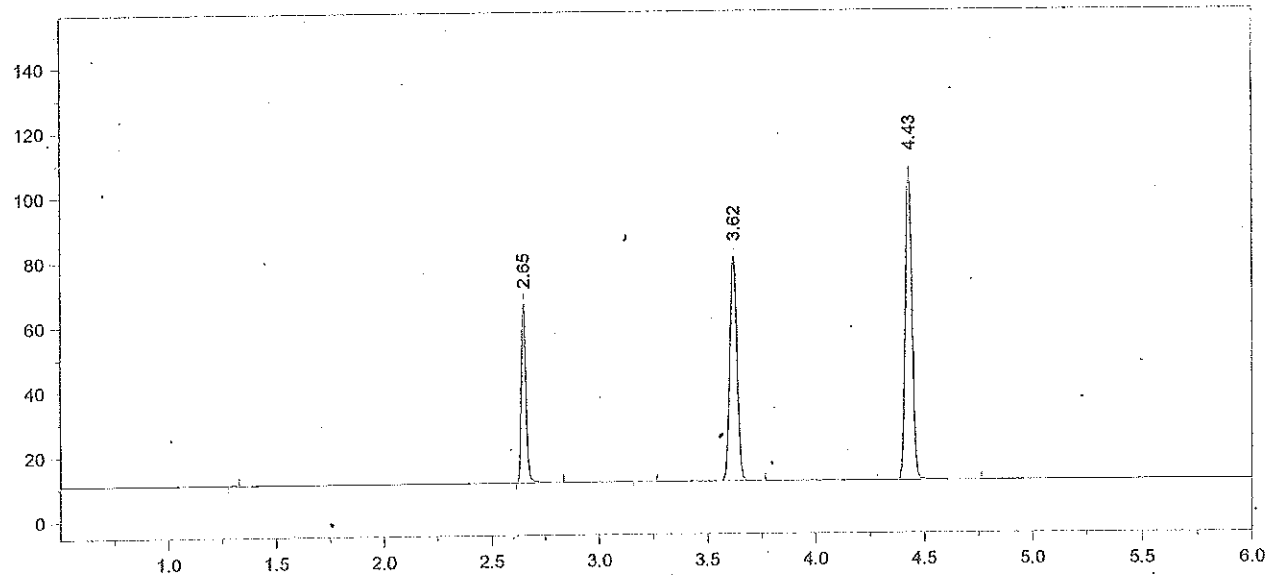
Format File Name = AlcoholVFL.FMT

Today's Date = 10/28/2013
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

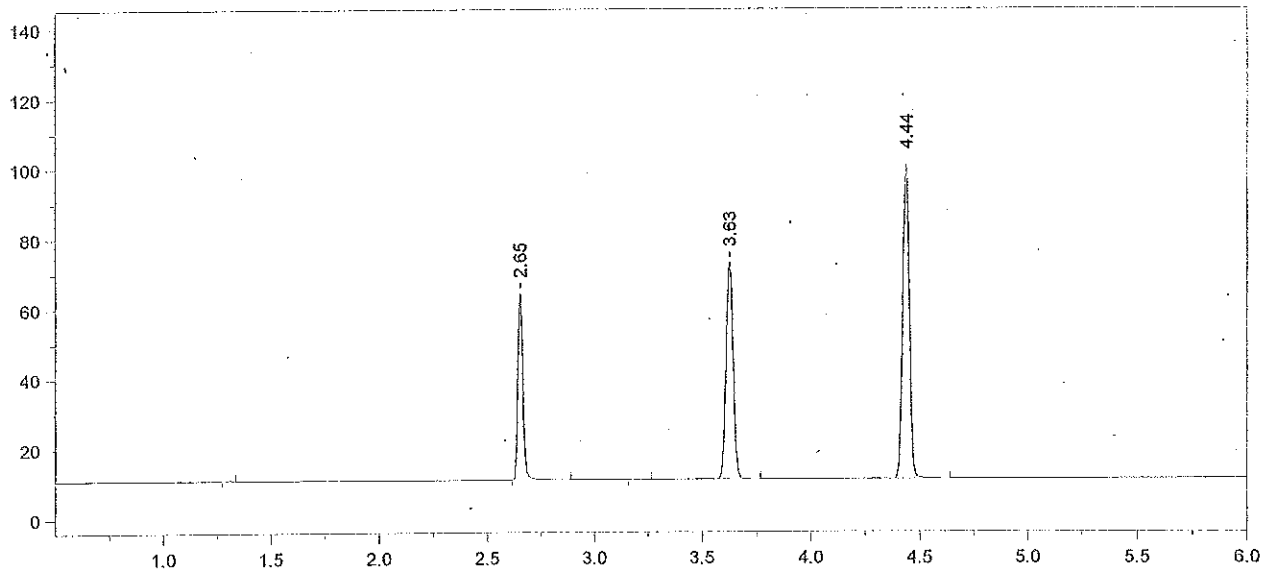
10/29/13



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



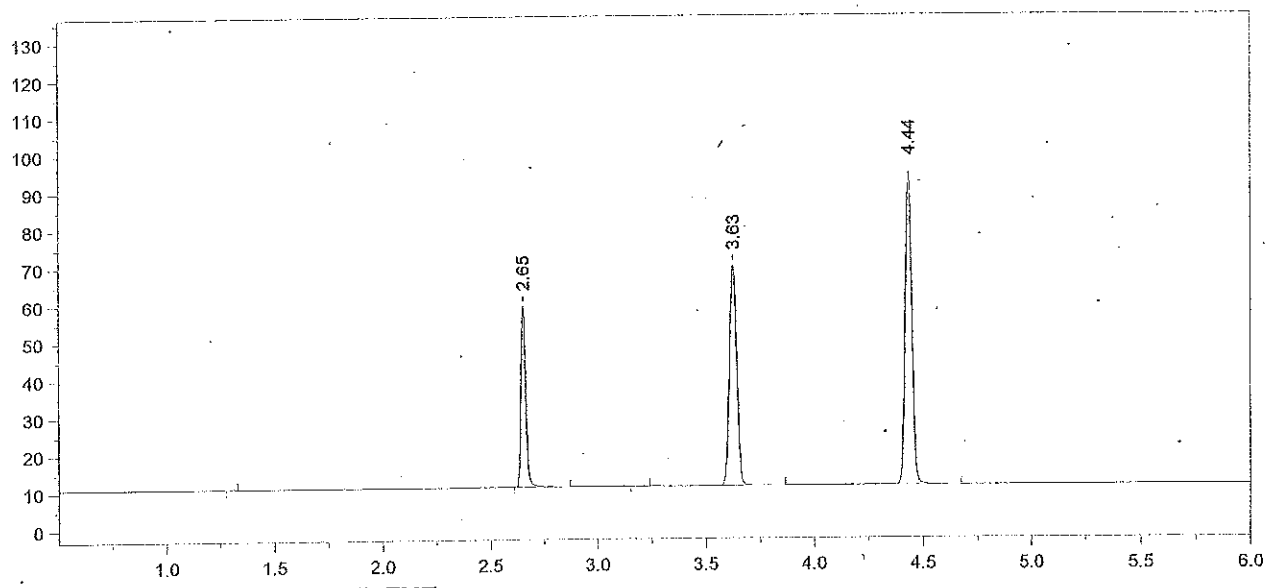
Format File Name = AlcoholVFL.FMT

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 [illegible]

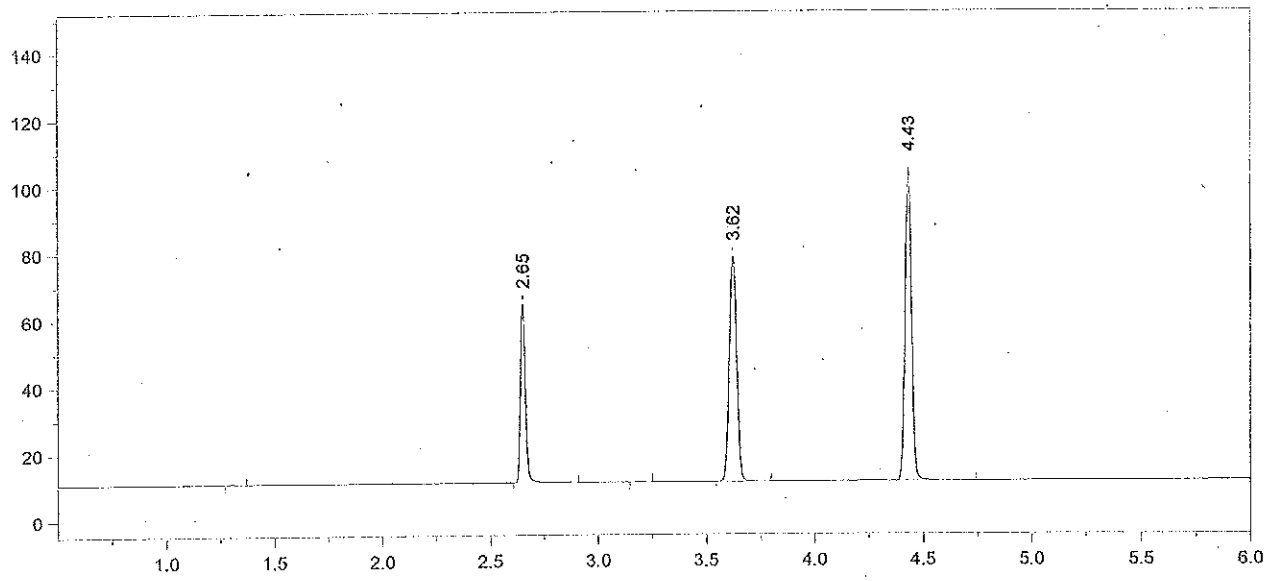


Format File Name = AlcoholVFL.FMT

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

Chrom Perfect Chromatogram Report



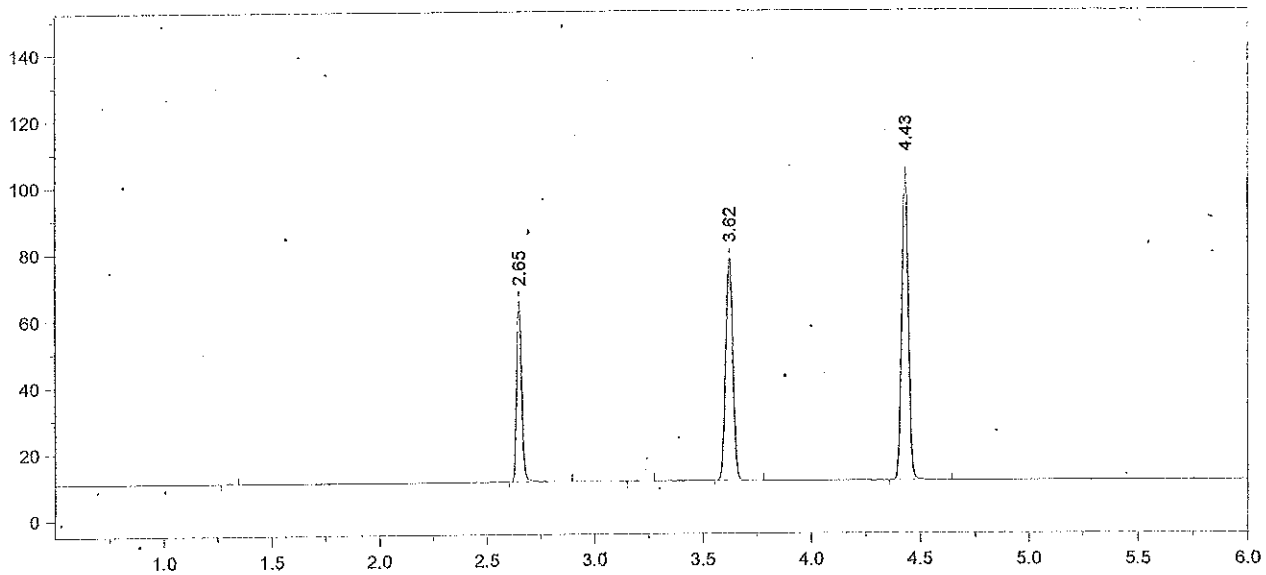
Format File Name = AlcoholVFL.FMT

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]

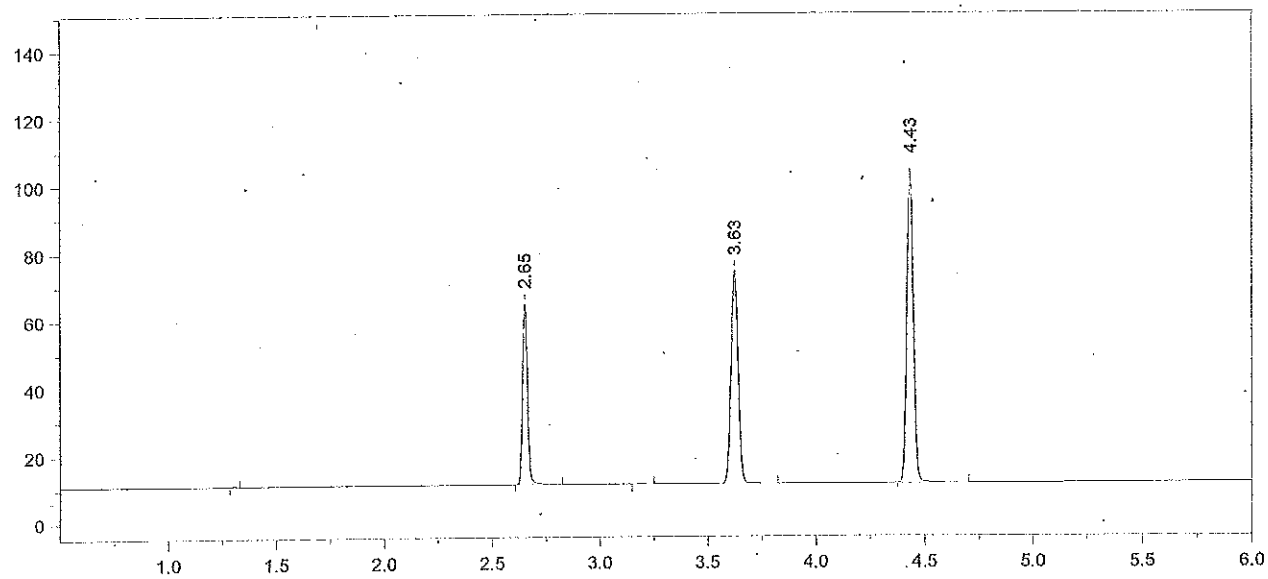
[illegible] 22 [illegible]



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



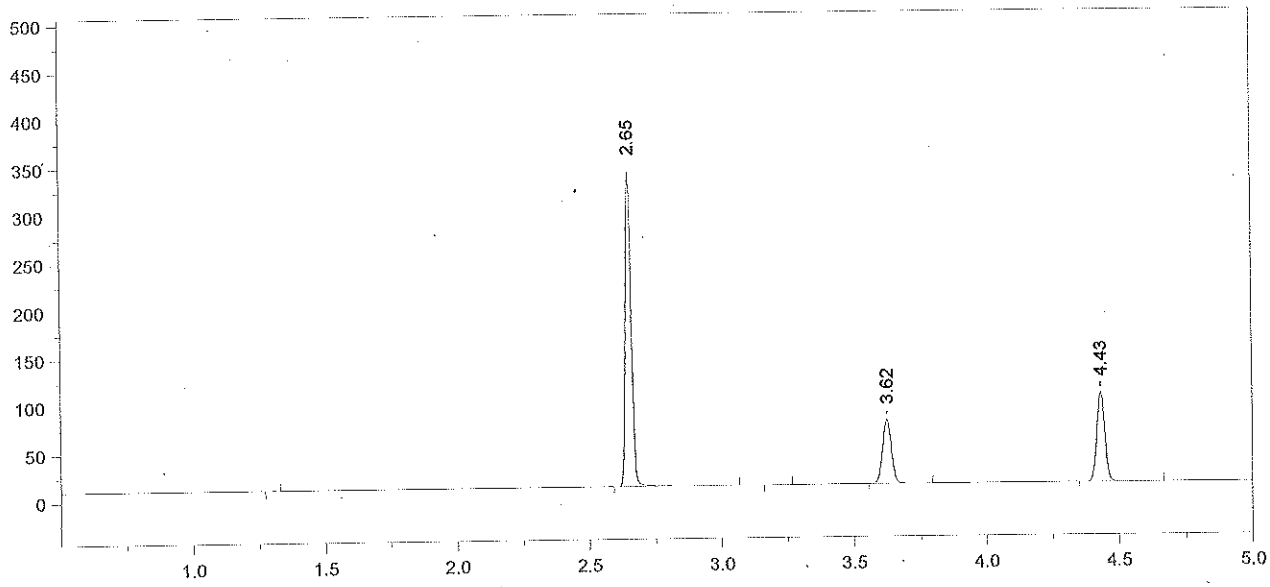
Format File Name = AlcoholVFL.FMT

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]

Chrom Perfect Chromatogram Report

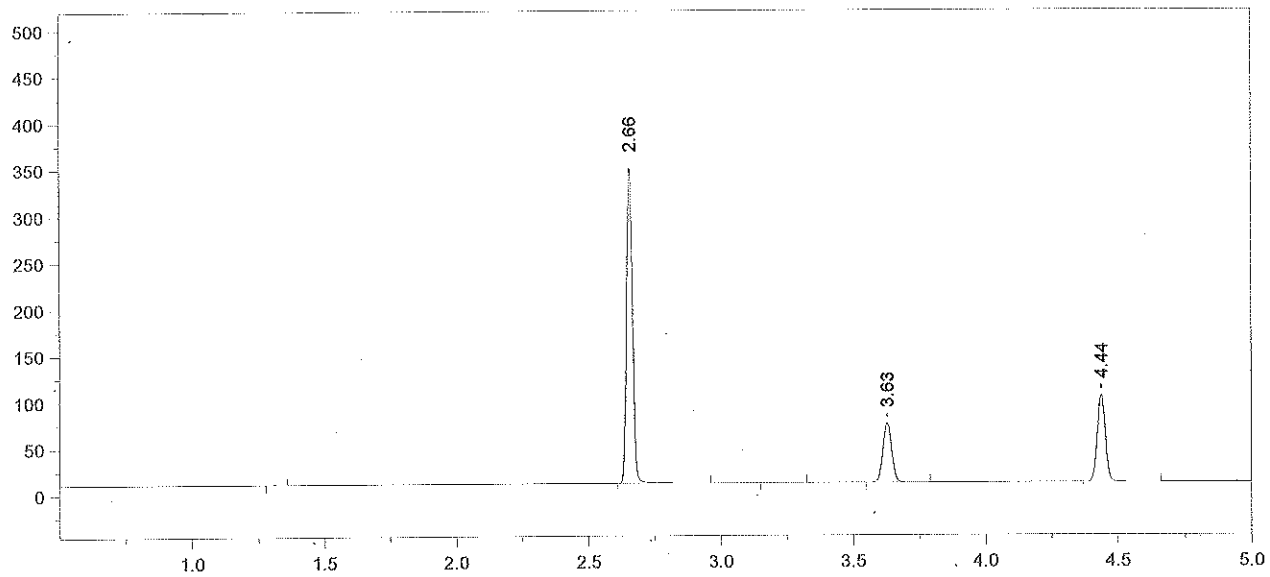


Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/29/2013
Today's Time = 10:03:17 AM
Bound File Name = VFL10282013.0048.RAW
Sample Name = 0.40 ALB
Date Taken = 10/28/2013 11:12:00 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	508301	0.4880	0.3983
4	3.62	t-Butanol	155125	1.0172	0.8302
5	4.43	n-Propanol	198823	1.0000	0.8162

13-20-400 25



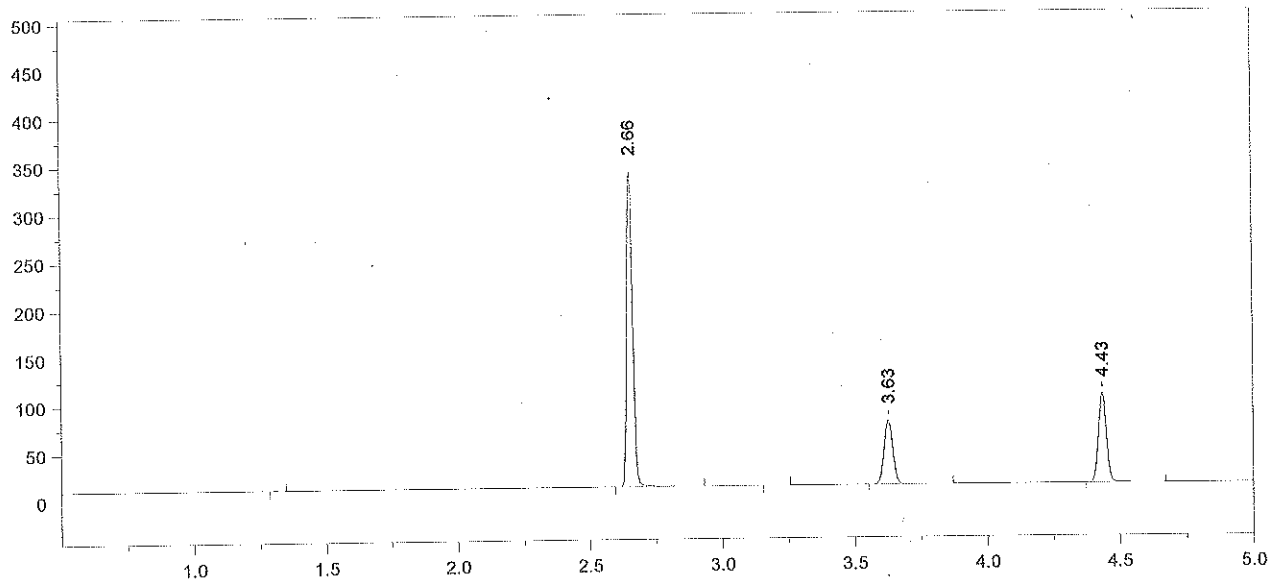
Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/29/2013
Today's Time = 10:03:25 AM
Bound File Name = VFL10282013.0049.RAW
Sample Name = 0.40 ALB
Date Taken = 10/28/2013 11:25:43 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	2.66	Ethanol	525517	0.5025	0.4101
4	3.63	t-Butanol	147278	0.9618	0.7850
5	4.44	n-Propanol	199642	1.0000	0.8162

13-20-400 26 A+B

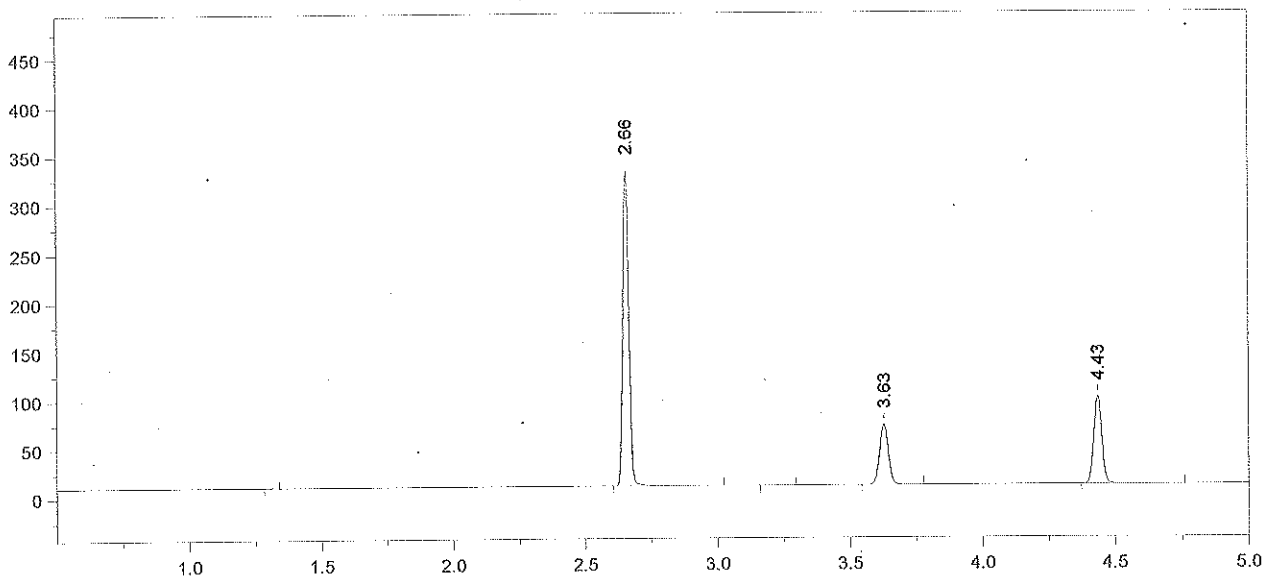
Chrom Perfect Chromatogram Report



Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/29/2013
Today's Time = 10:03:31 AM
Bound File Name = VFL10282013.0050.RAW
Sample Name = 0.40 ALB
Date Taken = 10/28/2013 11:43:25 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	2.66	Ethanol	509229	0.4907	0.4005
4	3.63	t-Butanol	155811	1.0254	0.8369
5	4.43	n-Propanol	198105	1.0000	0.8162

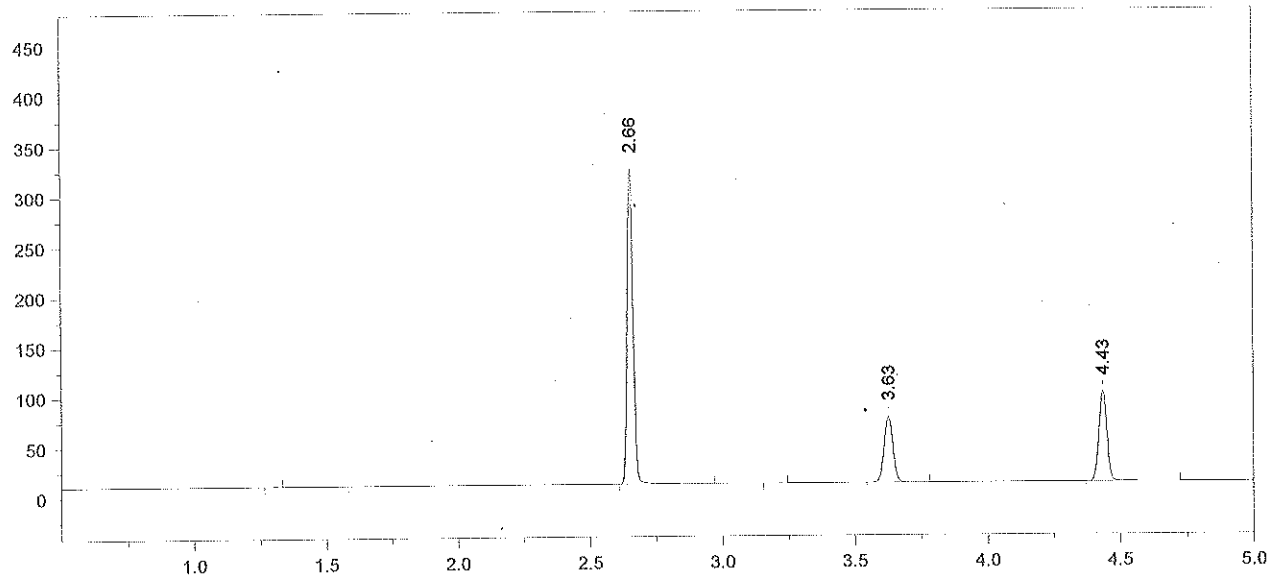


Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/29/2013
Today's Time = 10:03:37 AM
Bound File Name = VFL10282013.0051.RAW
Sample Name = 0.40 ALB
Date Taken = 10/28/2013 11:57:08 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	2.66	Ethanol	500391	0.5009	0.4088
4	3.63	t-Butanol	142586	0.9747	0.7956
5	4.43	n-Propanol	190713	1.0000	0.8162

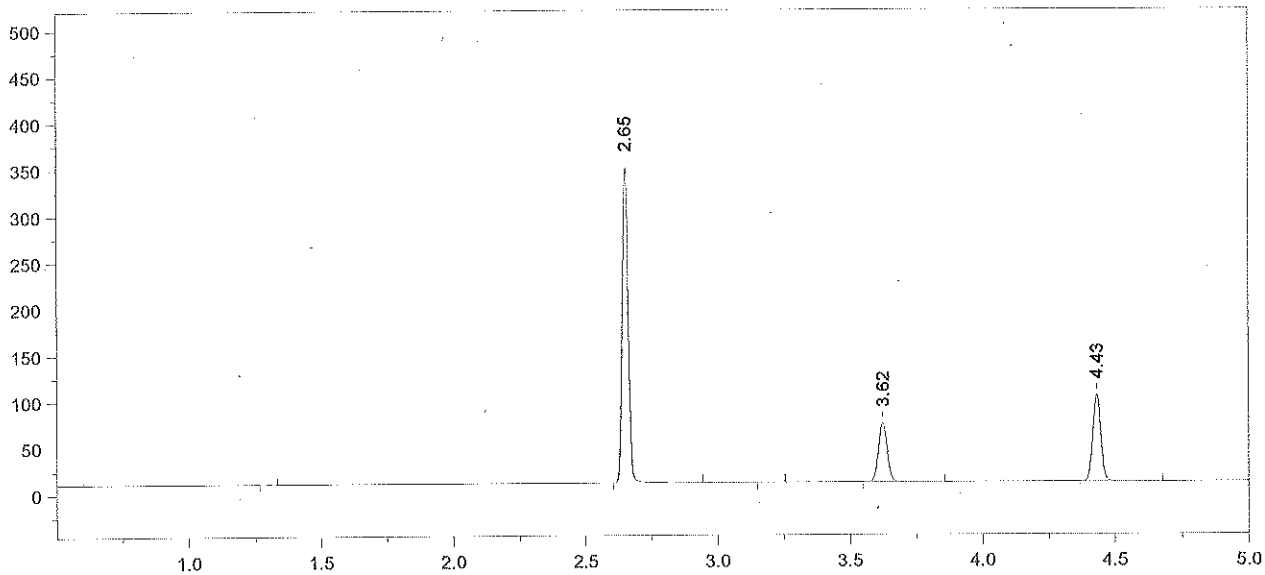
13-20-400 28



Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/29/2013
Today's Time = 10:03:42 AM
Bound File Name = VFL10282013.0052.RAW
Sample Name = 0.40 ALB
Date Taken = 10/29/2013 12:14:54 AM
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	2.66	Ethanol	488312	0.4847	0.3956
4	3.63	t-Butanol	151292	1.0256	0.8371
5	4.43	n-Propanol	192329	1.0000	0.8162

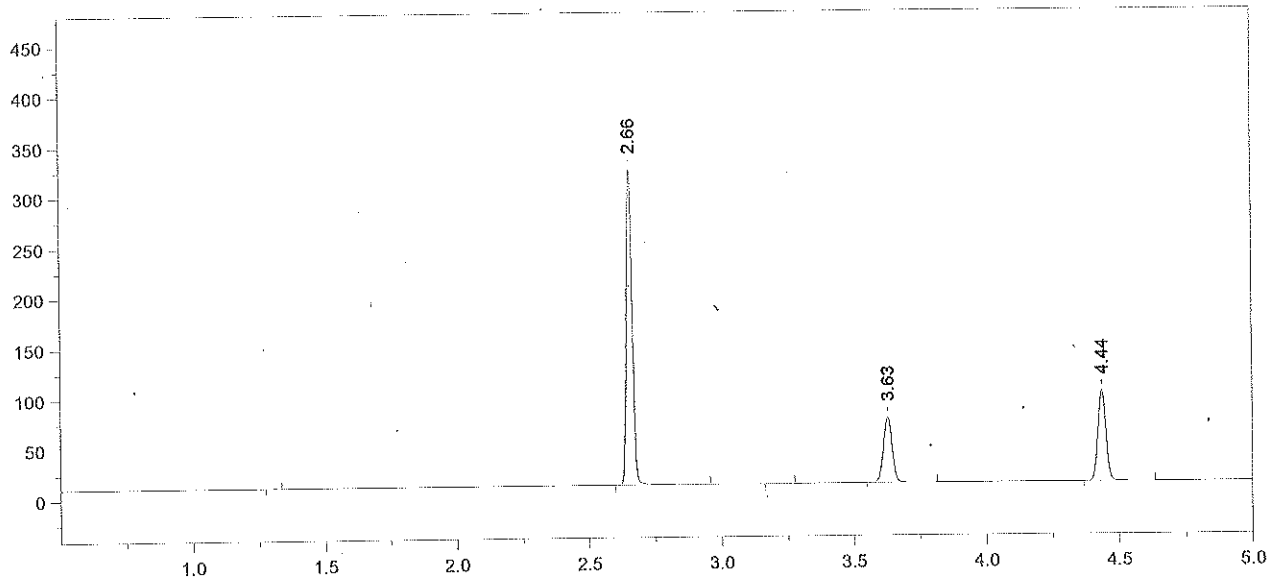


Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/29/2013
Today's Time = 10:03:49 AM
Bound File Name = VFL10282013.0053.RAW
Sample Name = 0.40 ALB
Date Taken = 10/29/2013 12:28:40 AM
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	524184	0.5045	0.4118
4	3.62	t-Butanol	147232	0.9678	0.7899
5	4.43	n-Propanol	198349	1.0000	0.8162

Chrom Perfect Chromatogram Report

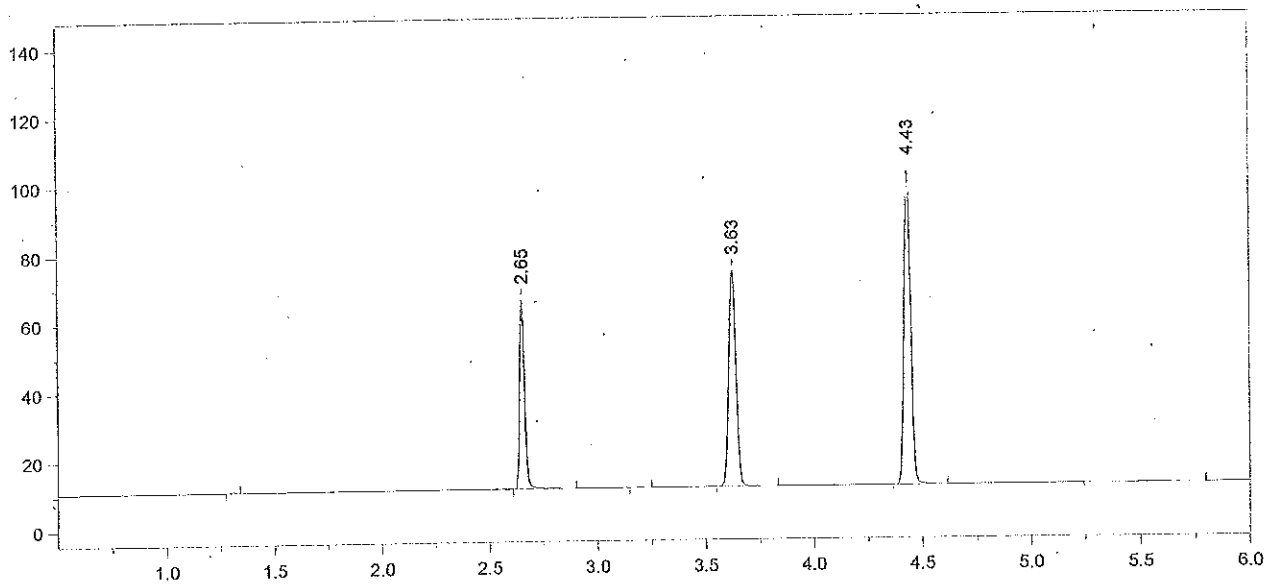


Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/29/2013
Today's Time = 10:03:56 AM
Bound File Name = VFL10282013.0054.RAW
Sample Name = 0.40 ALB
Date Taken = 10/29/2013 12:46:23 AM
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	2.66	Ethanol	480746	0.4790	0.3910
4	3.63	t-Butanol	150532	1.0244	0.8361
5	4.44	n-Propanol	191578	1.0000	0.8162

Chrom Perfect Chromatogram Report

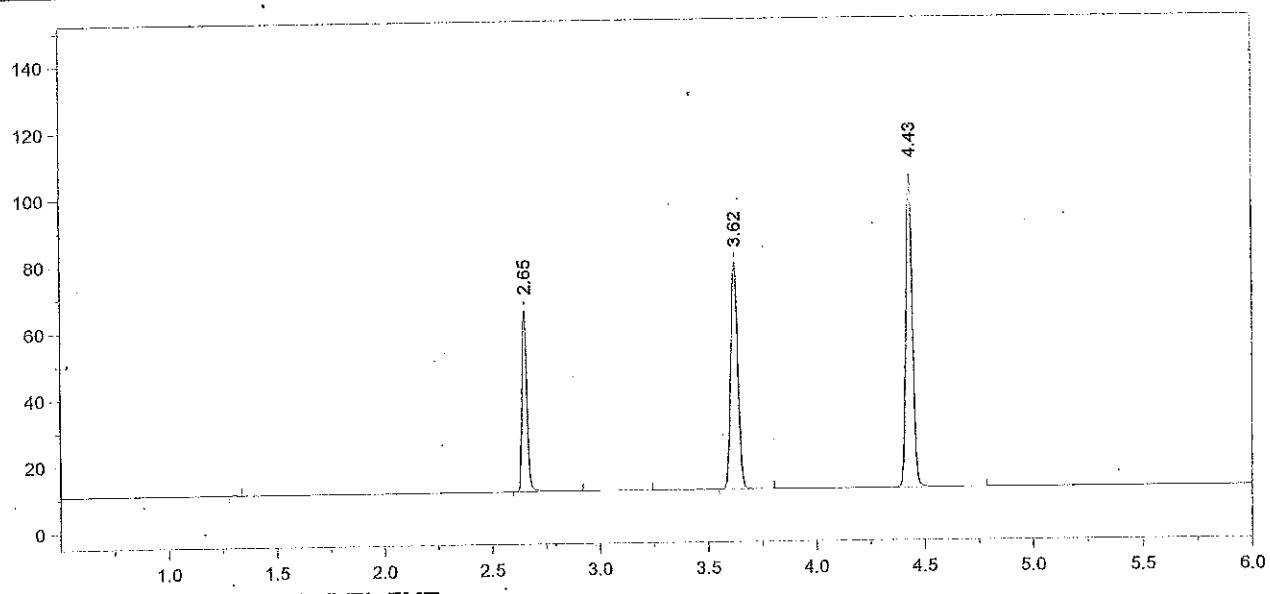


Format File Name = AlcoholVFL.FMT

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

Chrom Perfect Chromatogram Report



Format File Name = AlcoholVFL.FMT

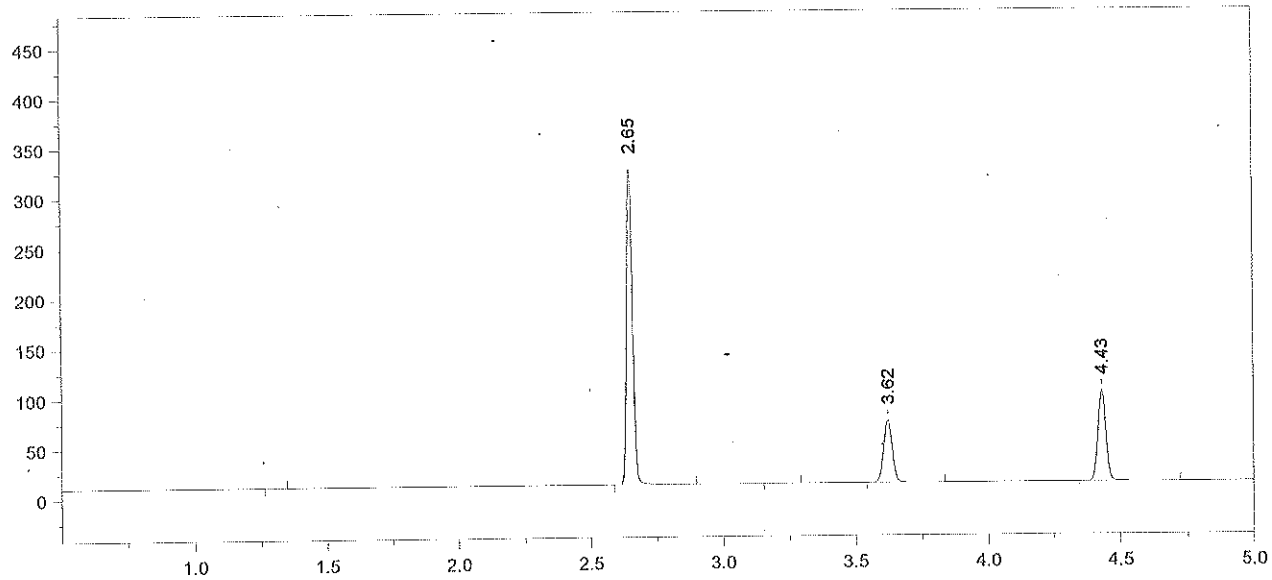
Today's Date = 10/29/2013
Today's Time = 1:17:55 AM
Bound File Name = VFL10282013.0056.RAW
Sample Name = CCS
Date Taken = 10/29/2013 1:17:48 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10282013.CAL
Calibration Version = 7

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
dlg

33

Chrom Perfect Chromatogram Report



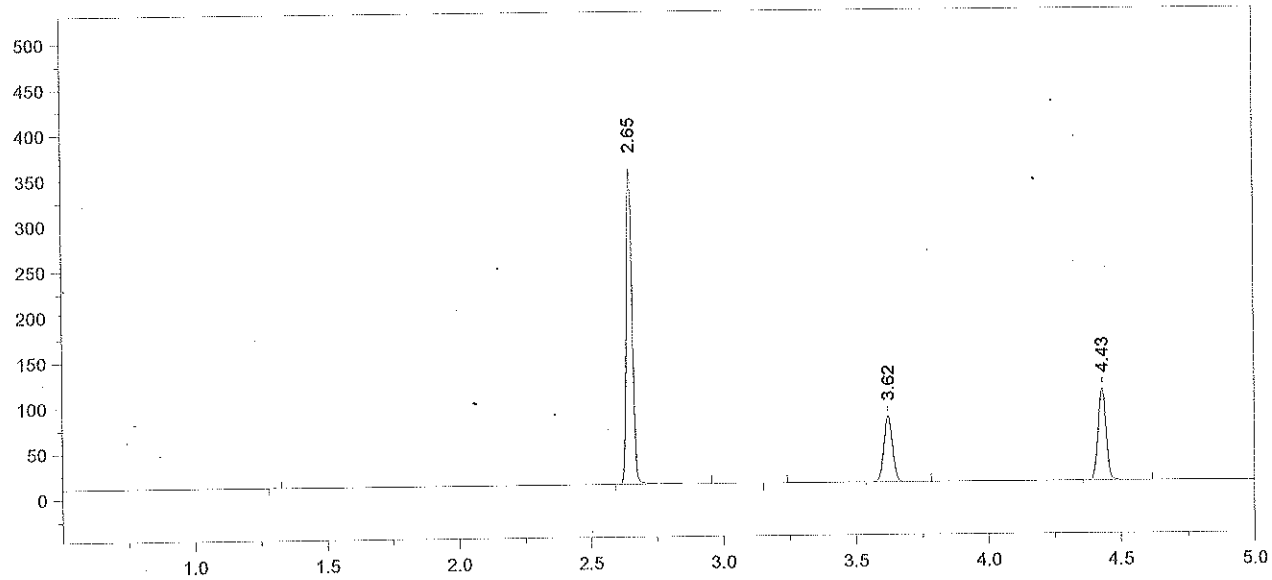
Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/29/2013
Today's Time = 10:04:03 AM
Bound File Name = VFL10282013.0057.RAW
Sample Name = 0.40 RLM
Date Taken = 10/29/2013 1:31:31 AM
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	491254	0.4859	0.3966
4	3.62	t-Butanol	143466	0.9691	0.7910
5	4.43	n-Propanol	193003	1.0000	0.8162

B-20-400 34 of 6

Chrom Perfect Chromatogram Report



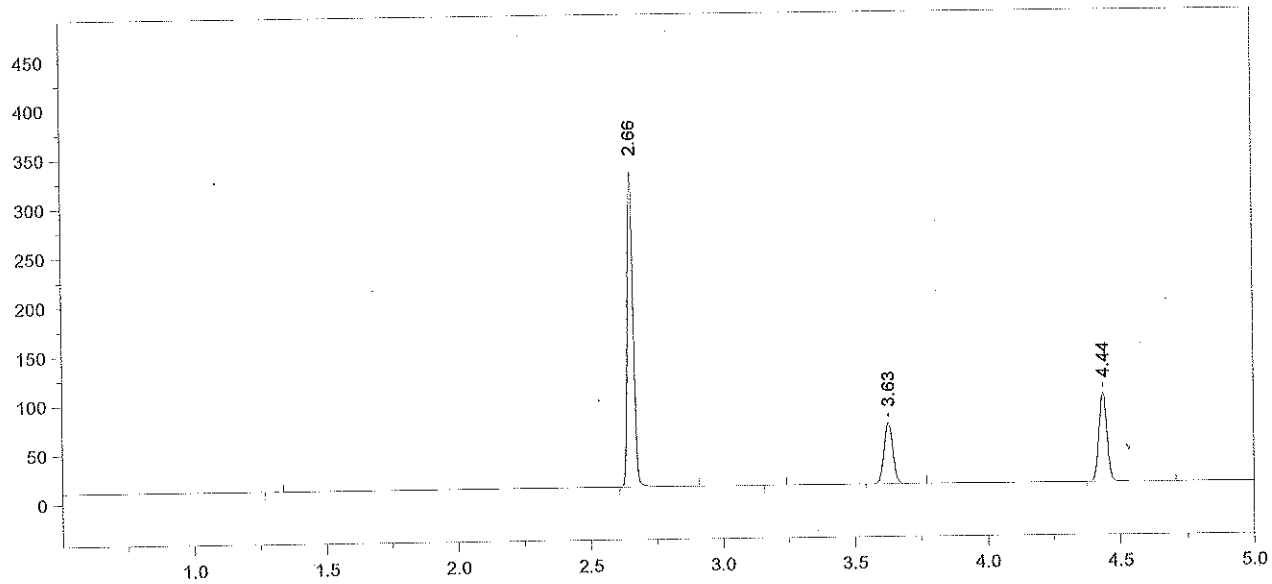
Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/29/2013
Today's Time = 10:04:08 AM
Bound File Name = VFL10282013.0058.RAW
Sample Name = 0.40 RLM
Date Taken = 10/29/2013 1:47:32 AM
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	534544	0.4751	0.3878
4	3.62	t-Butanol	166569	1.0112	0.8253
5	4.43	n-Propanol	214767	1.0000	0.8162

13-20-400 35 A, B

Chrom Perfect Chromatogram Report

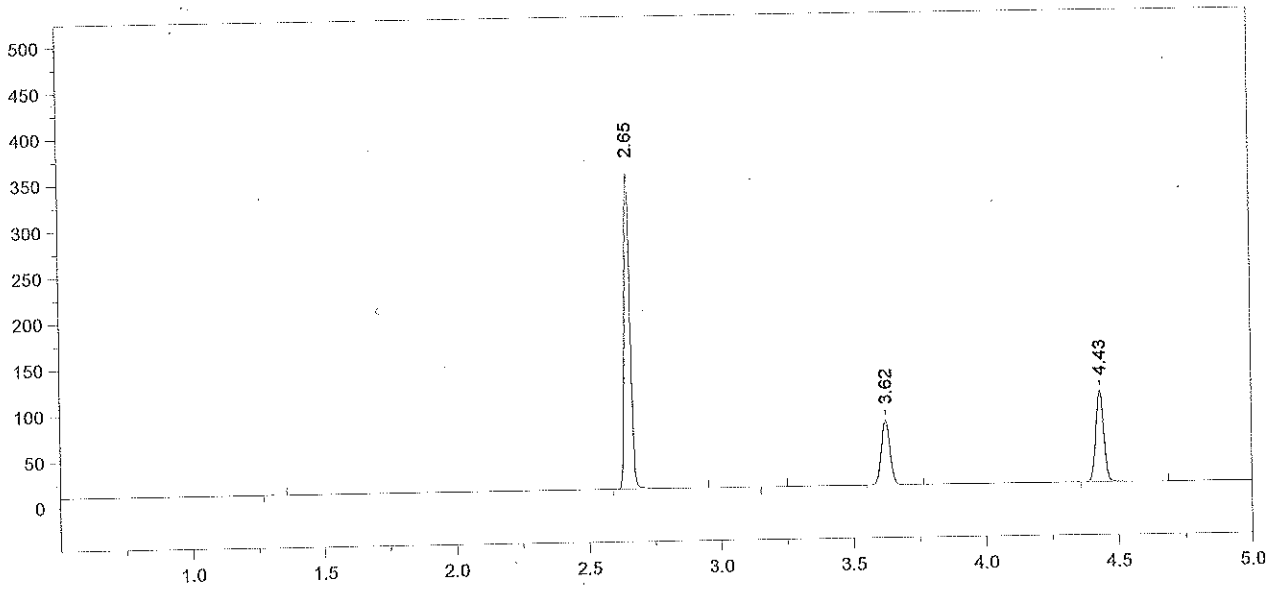


Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/29/2013
Today's Time = 10:04:14 AM
Bound File Name = VFL10282013.0059.RAW
Sample Name = 0.40 RLM
Date Taken = 10/29/2013 2:02:55 AM
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	2.66	Ethanol	494655	0.4893	0.3994
4	3.63	t-Butanol	144074	0.9734	0.7944
5	4.44	n-Propanol	192979	1.0000	0.8162

Chrom Perfect Chromatogram Report

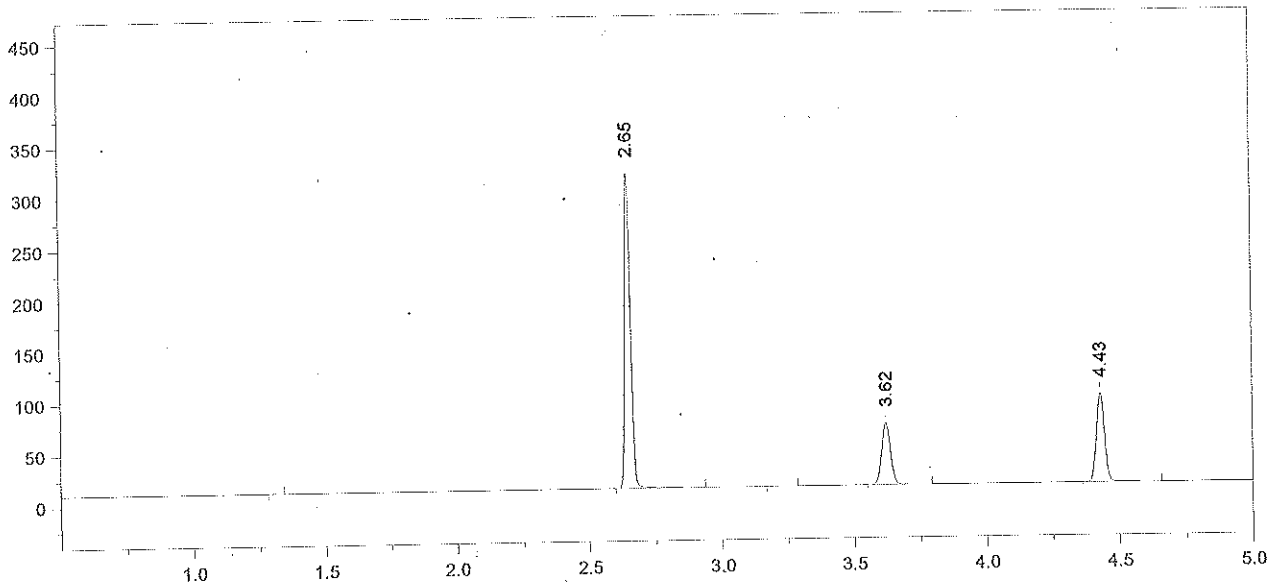


Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/29/2013
Today's Time = 10:04:21 AM
Bound File Name = VFL10282013.0060.RAW
Sample Name = 0.40 RLM
Date Taken = 10/29/2013 2:17:21 AM
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	528468	0.4775	0.3897
4	3.62	t-Butanol	162677	1.0038	0.8193
5	4.43	n-Propanol	211287	1.0000	0.8162

Chrom Perfect Chromatogram Report

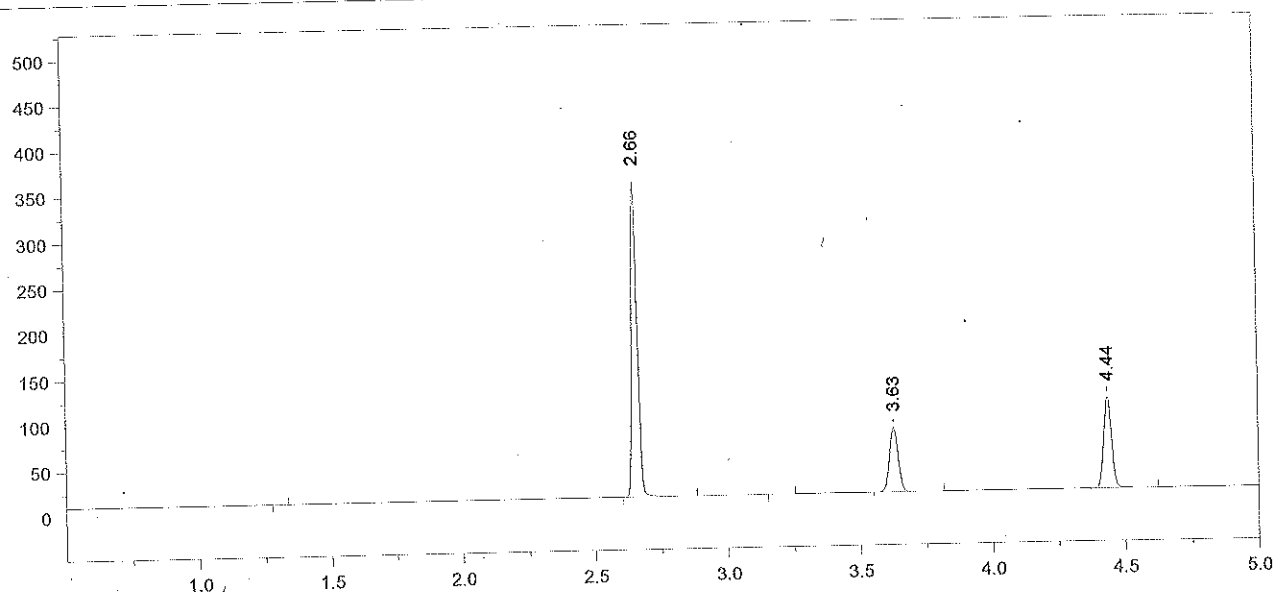


Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/29/2013
Today's Time = 10:04:27 AM
Bound File Name = VFL10282013.0061.RAW
Sample Name = 0.40 RLM
Date Taken = 10/29/2013 2:34:20 AM
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	472455	0.4912	0.4009
4	3.62	t-Butanol	139472	0.9903	0.8083
5	4.43	n-Propanol	183620	1.0000	0.8162

Chrom Perfect Chromatogram Report



Format File Name = simsoln-JFH.met.FMT

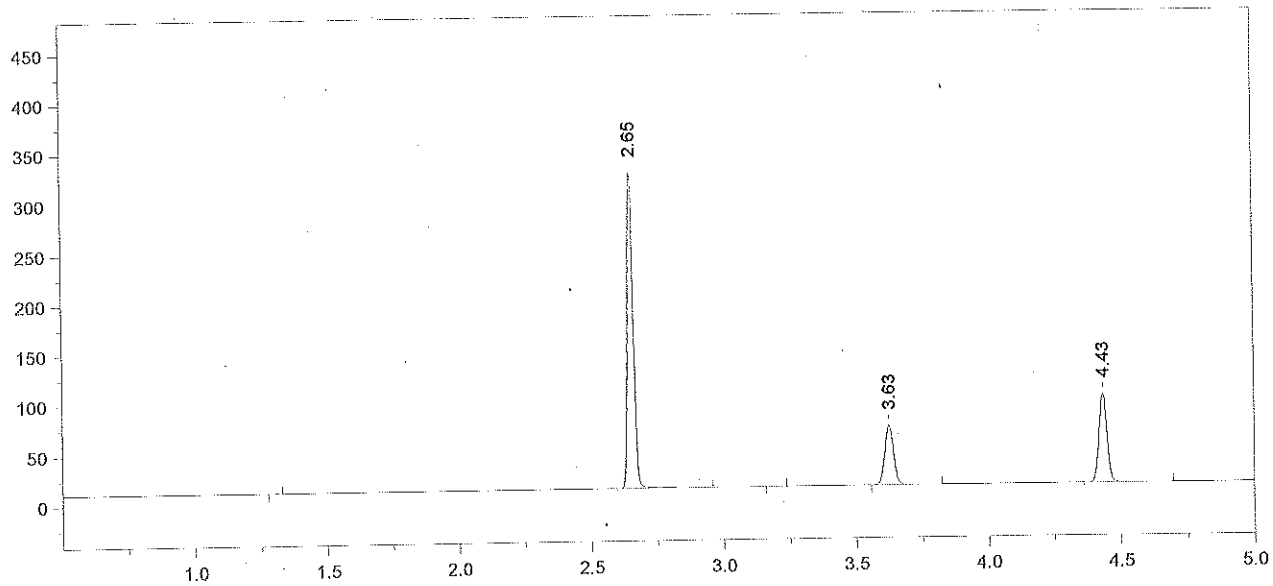
Today's Date = 10/29/2013
Today's Time = 10:04:33 AM
Bound File Name = VFL10282013.0062.RAW
Sample Name = 0.40 RLM
Date Taken = 10/29/2013 2:47:35 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10282013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	529744	0.4782	0.3903
4	3.63	t-Butanol	163241	1.0063	0.8213
5	4.44	n-Propanol	211496	1.0000	0.8162

Printed on 10/29/2013 10:04:33 AM

39

Chrom Perfect Chromatogram Report

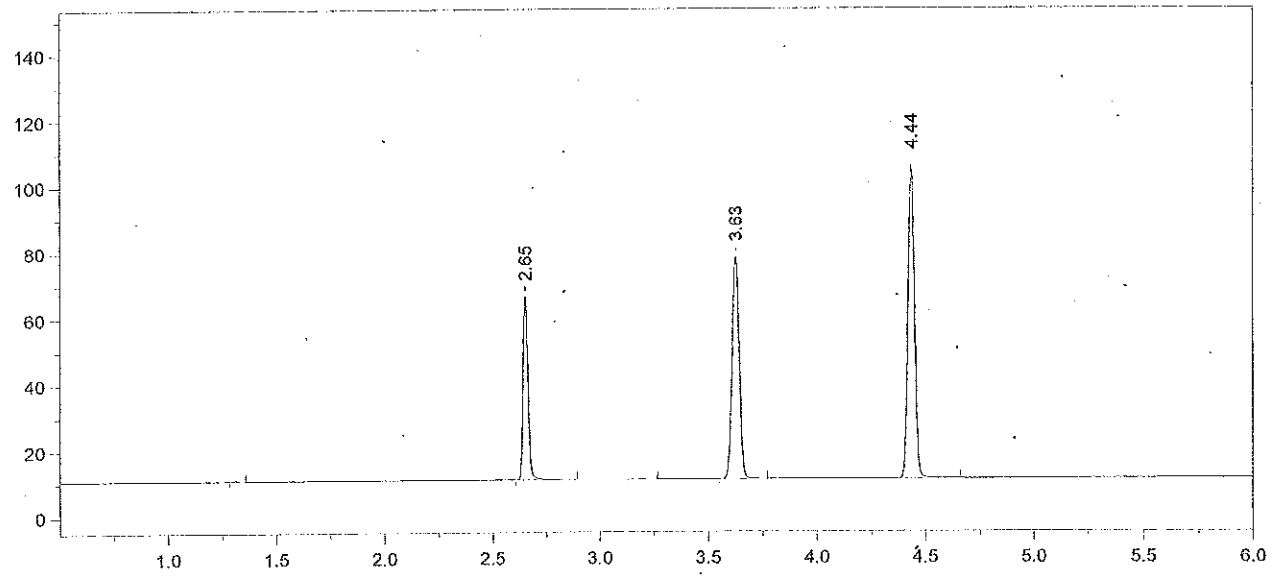


Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/29/2013
Today's Time = 10:04:38 AM
Bound File Name = VFL10282013.0063.RAW
Sample Name = 0.40 RLM
Date Taken = 10/29/2013 3:04:39 AM
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	488268	0.4932	0.4025
4	3.63	t-Butanol	137527	0.9487	0.7743
5	4.43	n-Propanol	188993	1.0000	0.8162

13-20-400 40 AeB

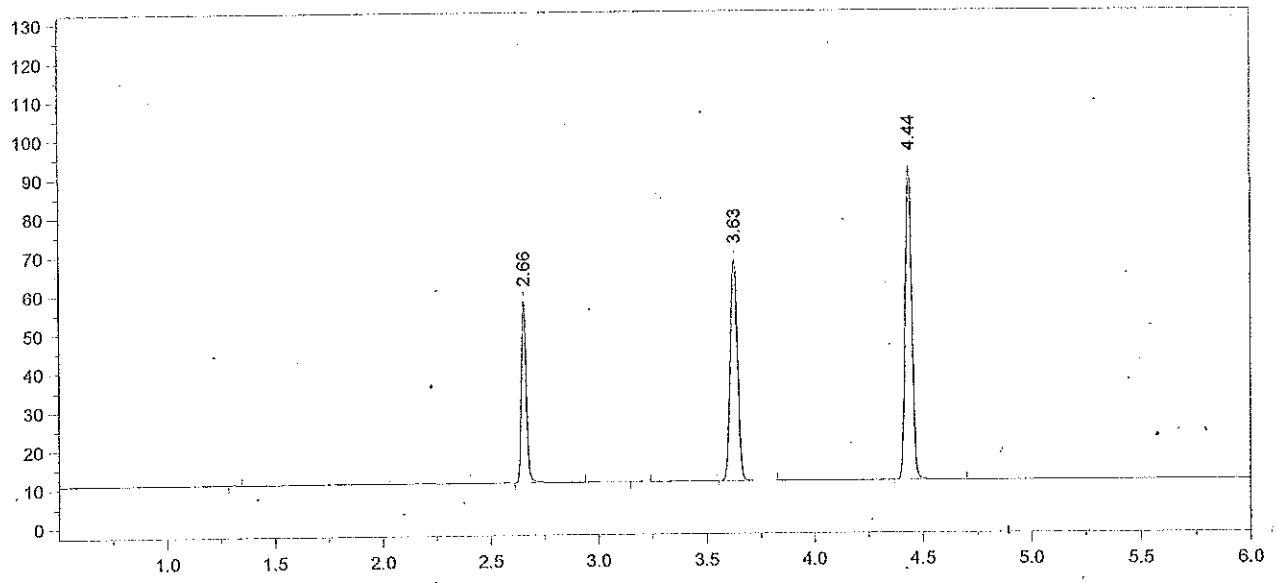


Format File Name = AlcoholVFL.FMT

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

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

Headspace Alcohol Analysis Standards Coversheet

Analyst: ALB Date: 11/1/13

TLG 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 ~~0.08~~ AUB 11/1/13	~~Y~~ N	
9	Aqueous QC		0.0818	~~Y~~ N	$\bar{X}$ = 0.081 101%

13-20-400 43 AUB

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

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

13-20-400 45 A.B

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

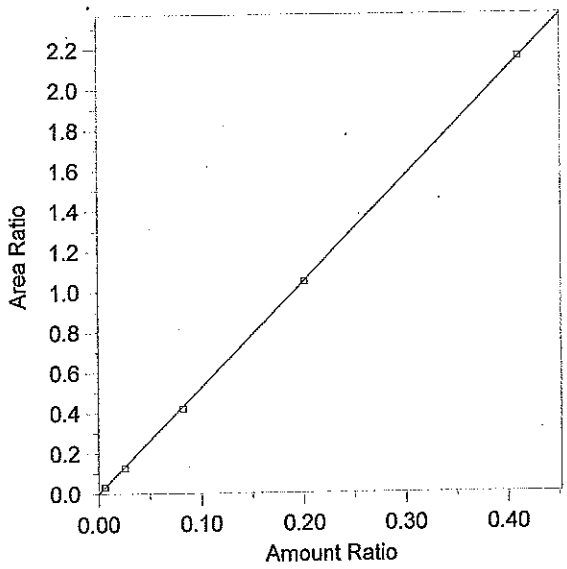
Creator:
Description:
Reason for change:

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

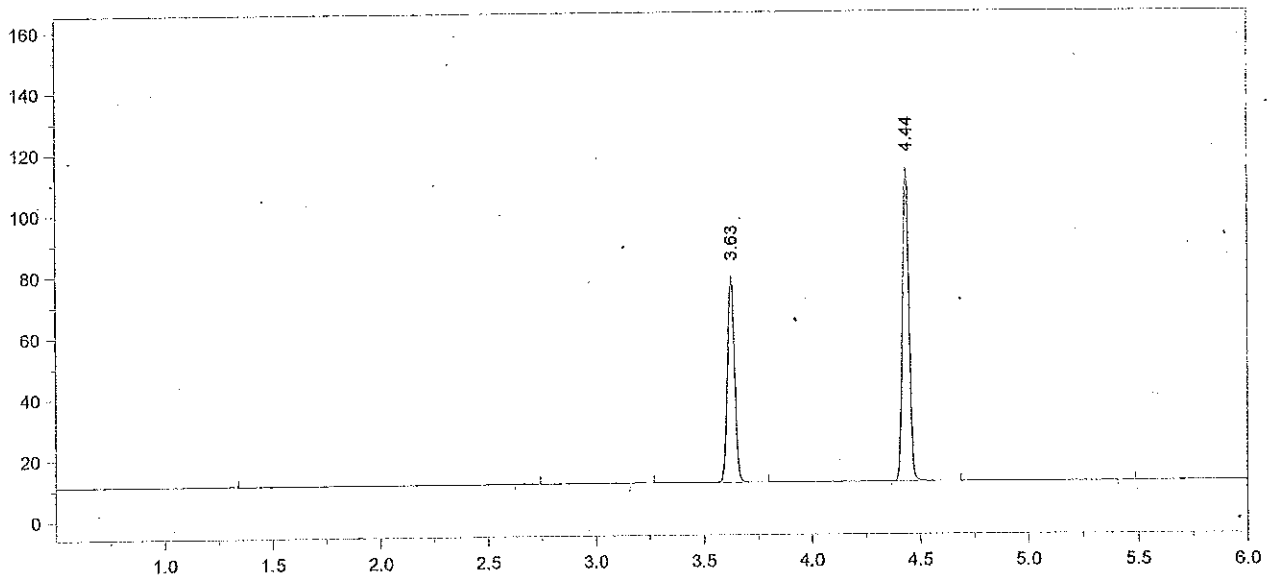
Single peak quantification by area

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

Chrom Perfect Chromatogram Report

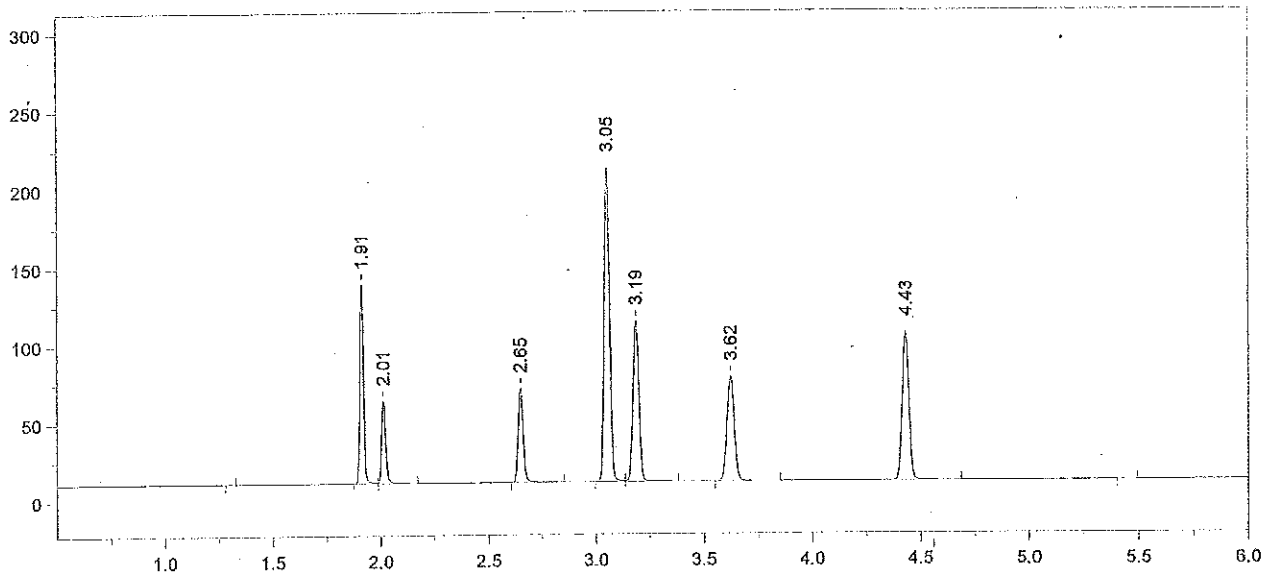


Format File Name = AlcoholVFL.FMT

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

13-20-400 47 [illegible]

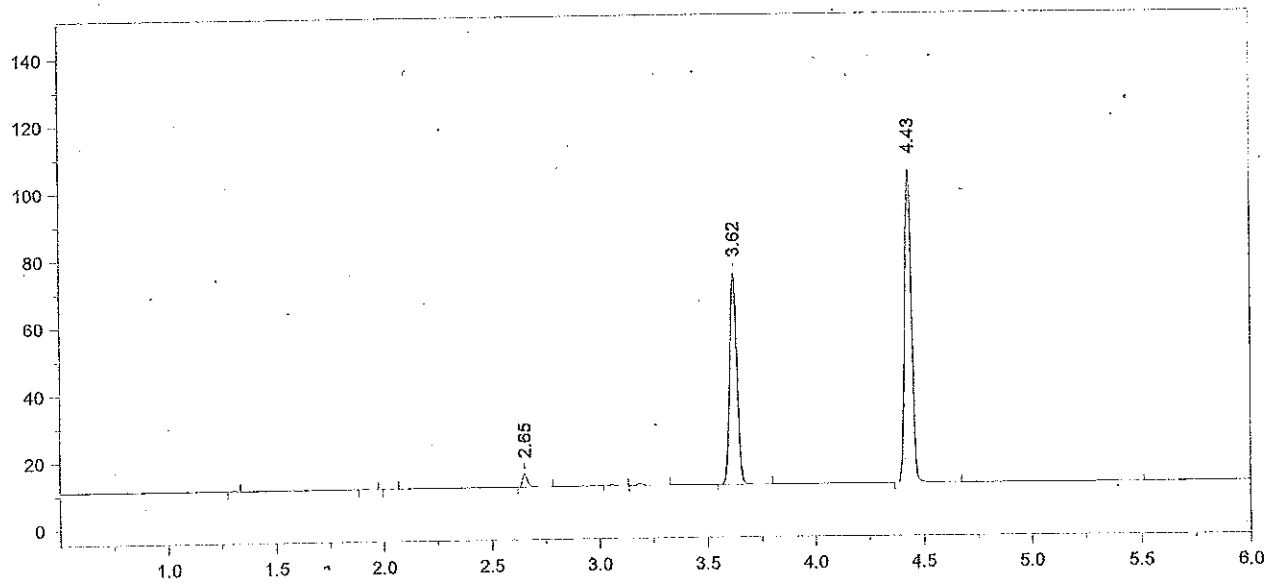


Format File Name = AlcoholVFL.FMT

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

Chrom Perfect Chromatogram Report

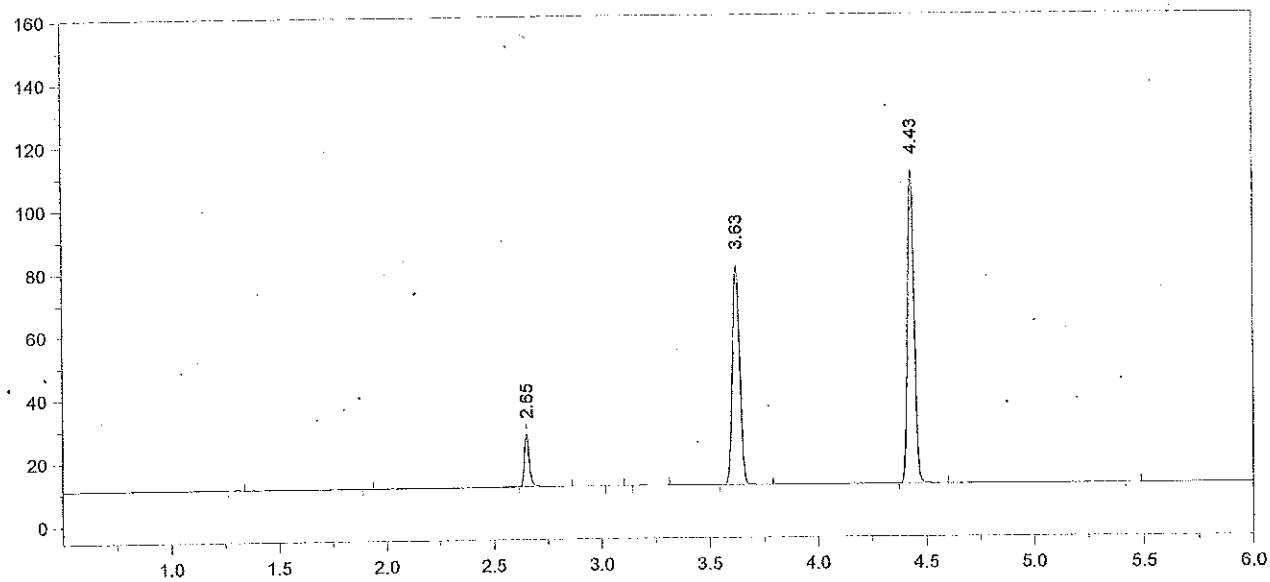


Format File Name = AlcoholVFL.FMT

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

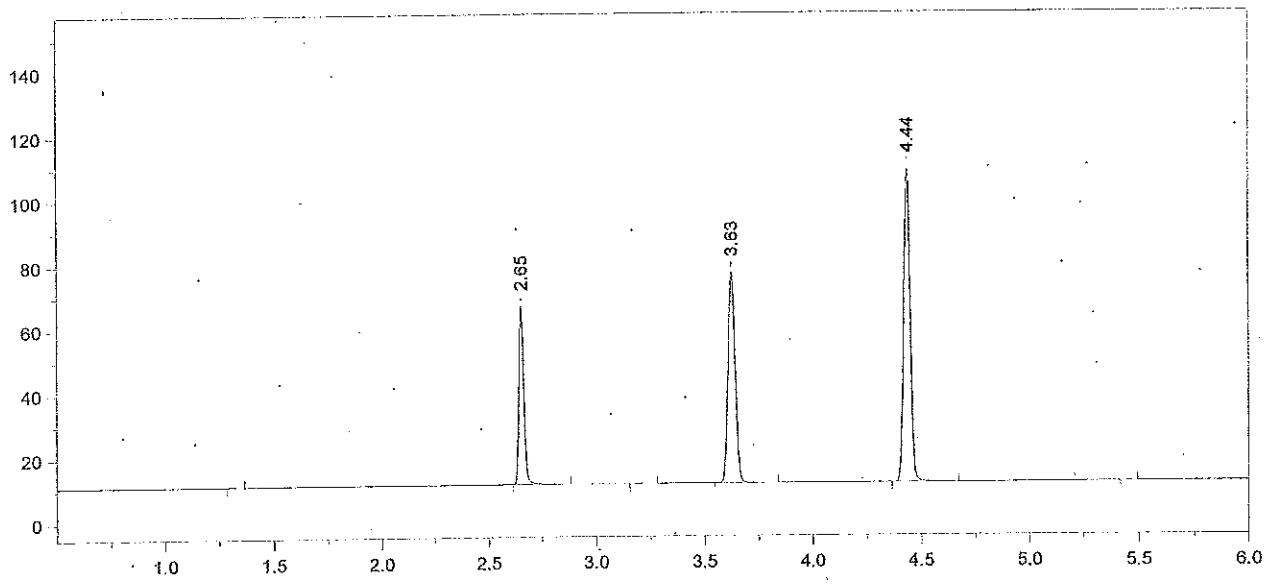
13-20-400 49



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

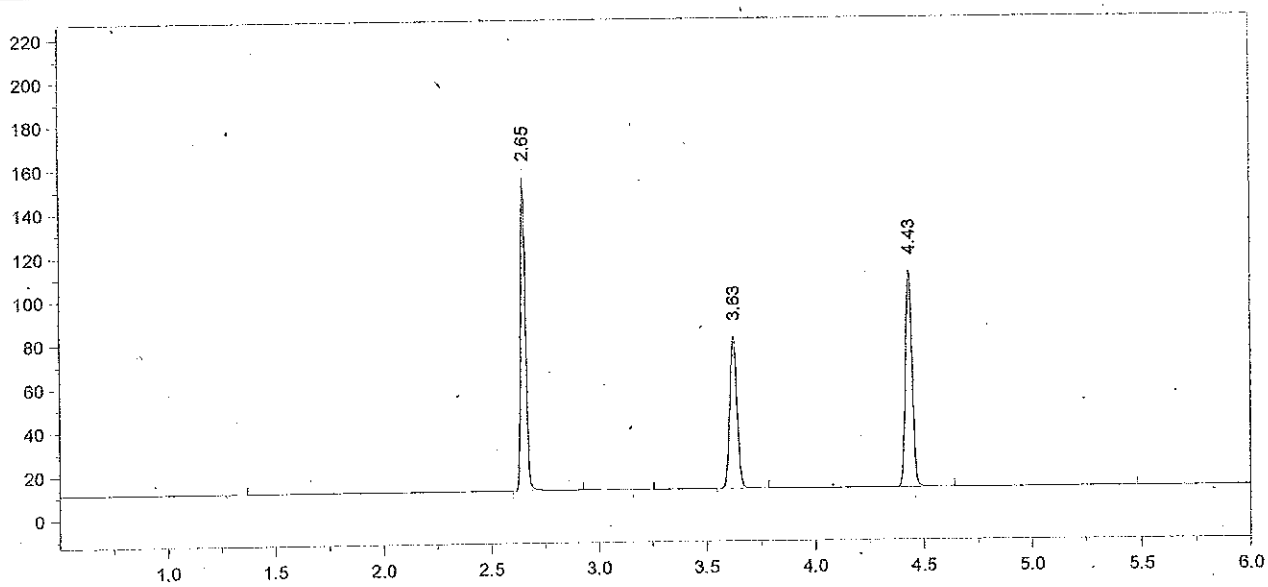
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	26742	0.0243
6	3.63	t-Butanol	161769	1.0238
7	4.43	n-Propanol	210906	1.0000



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

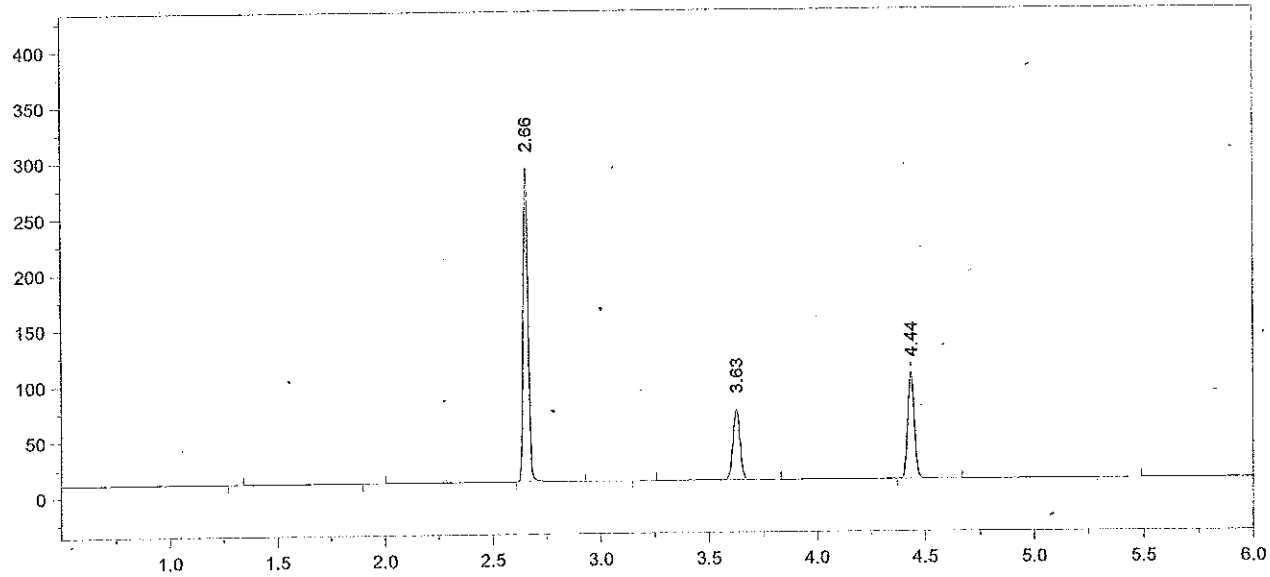
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	86342	0.0801
4	3.63	t-Butanol	151807	0.9818
5	4.44	n-Propanol	206381	1.0000



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

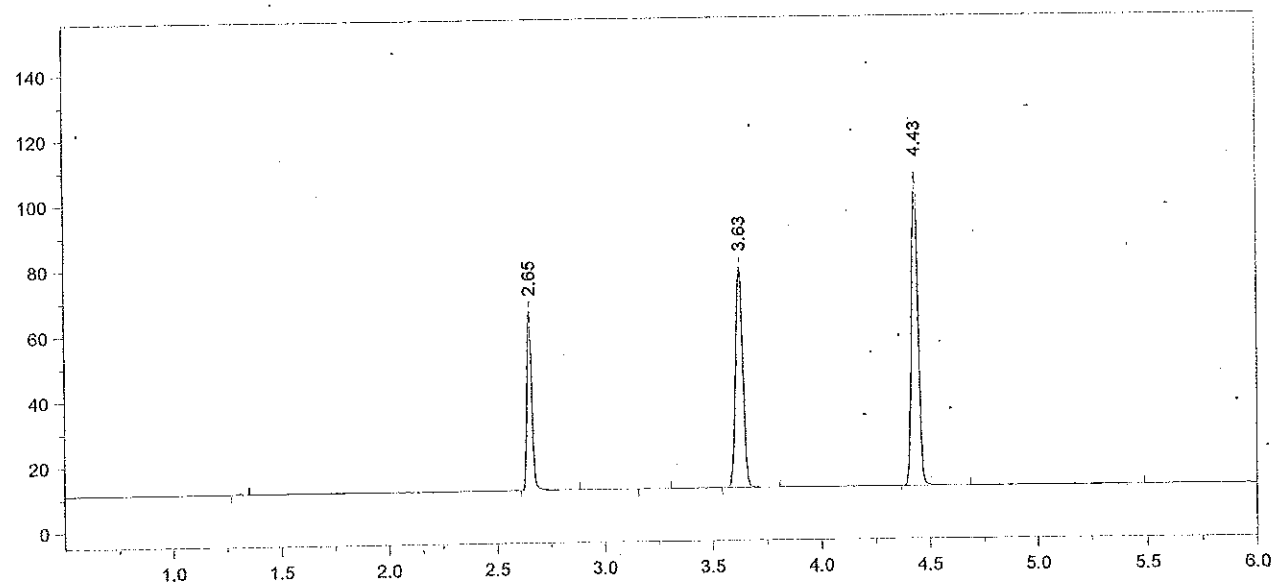


Format File Name = AlcoholVFL.FMT

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

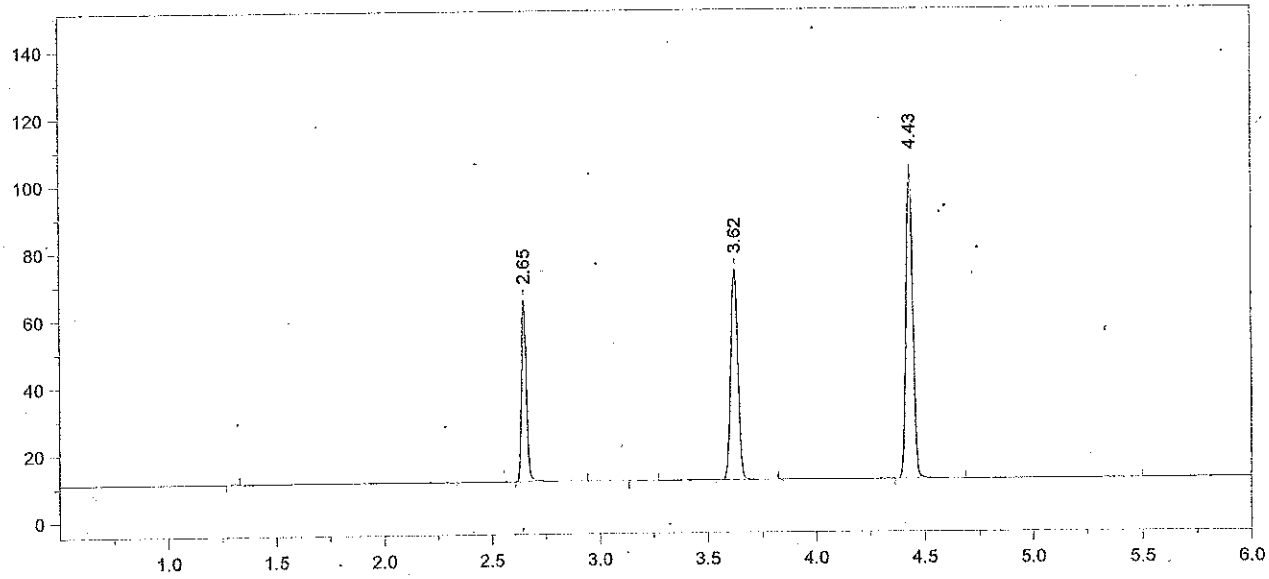
13-20-400 53



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



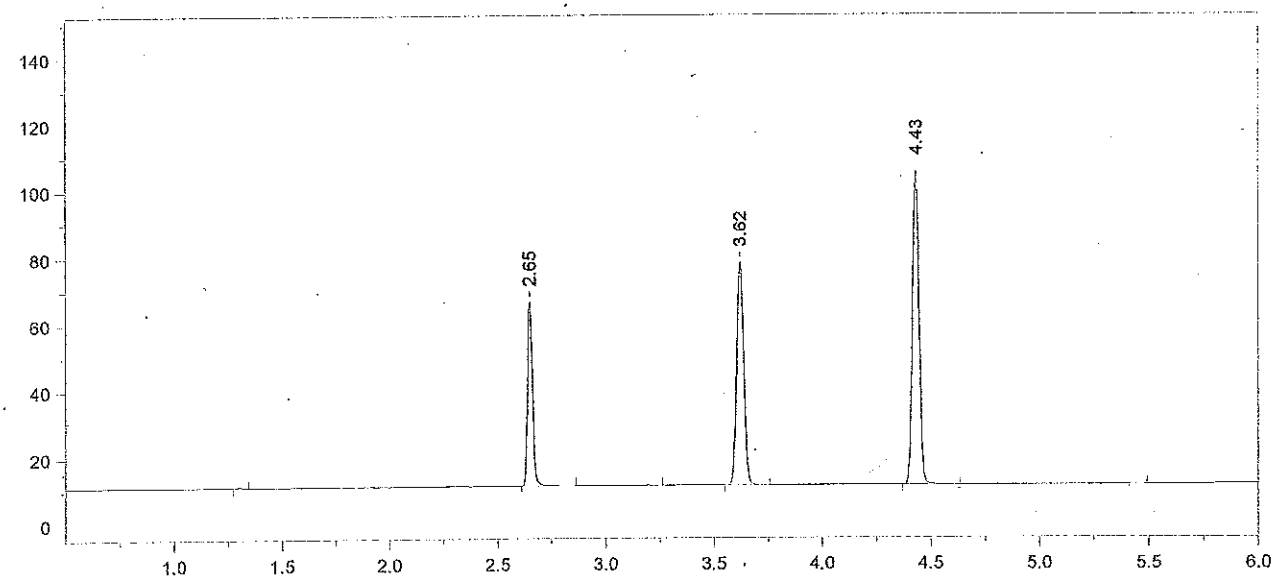
Format File Name = AlcoholVFL.FMT

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]



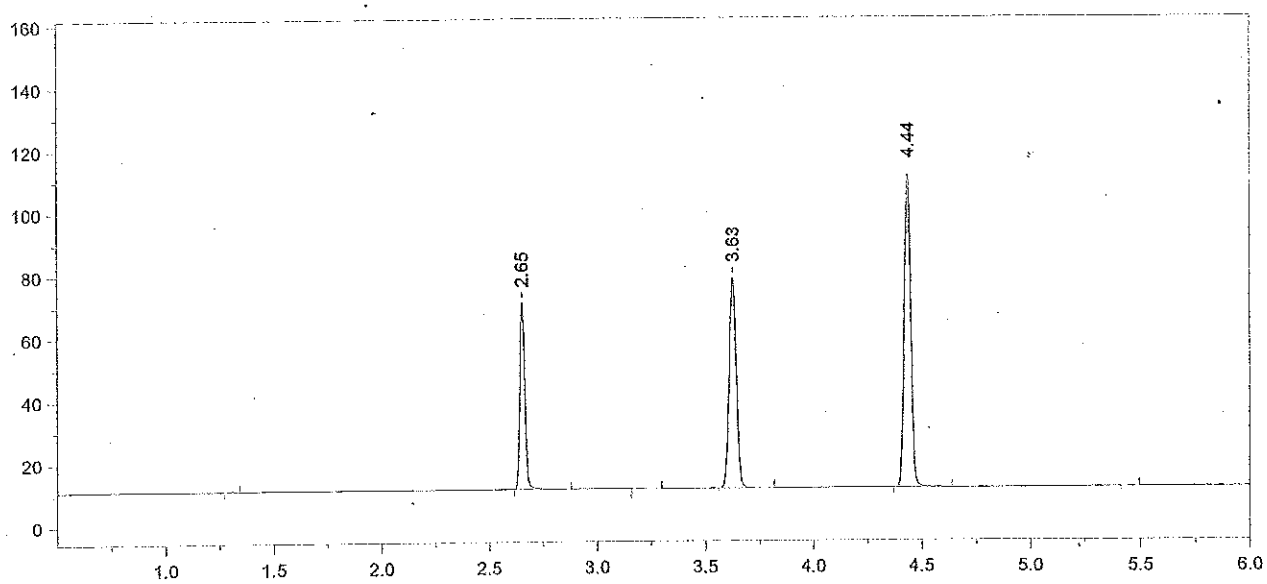
Format File Name = AlcoholVFL.FMT

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

13-20-400

Chrom Perfect Chromatogram Report



Format File Name = AlcoholVFL.FMT

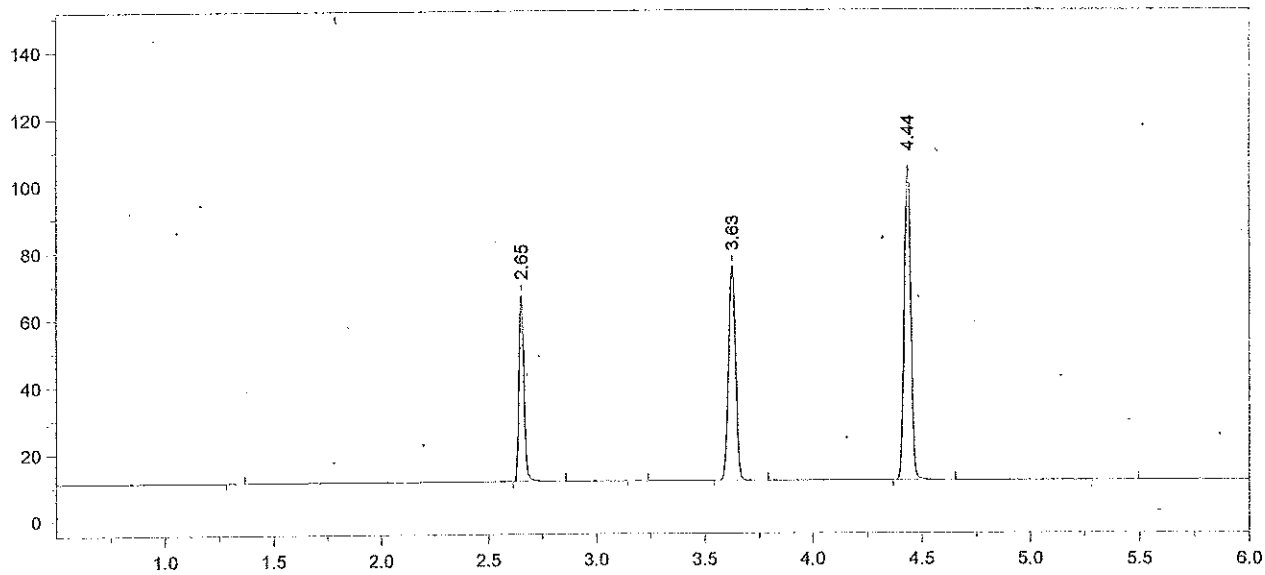
Today's Date = 10/31/2013
Today's Time = 4:51:58 PM
Bound File Name = VFL10312013.0011.RAW
Sample Name = CCS
Date Taken = 10/31/2013 4:51:49 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10312013.CAL
Calibration Version = 7

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 [illegible]

[illegible] 57 [illegible]

Chrom Perfect Chromatogram Report

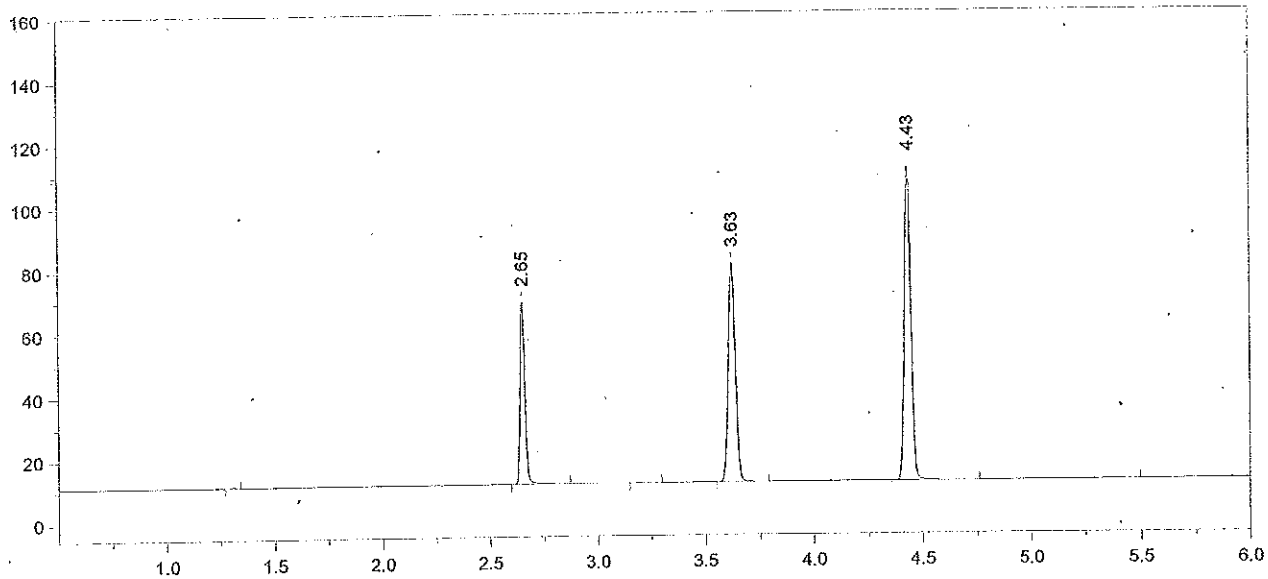


Format File Name = AlcoholVFL.FMT

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

Chrom Perfect Chromatogram Report

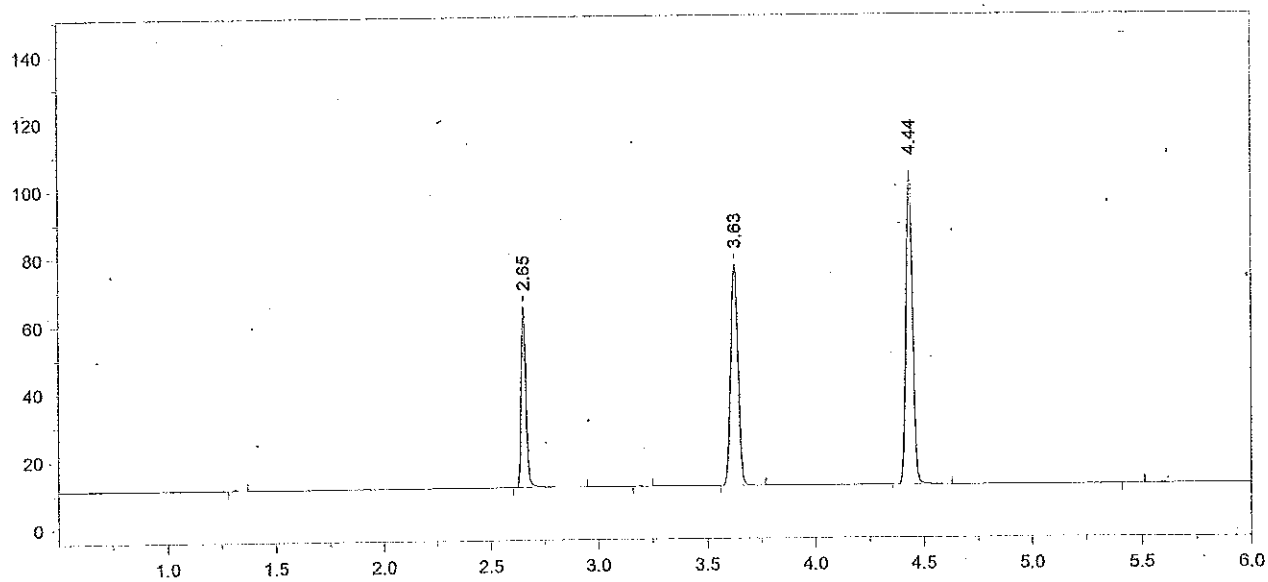


Format File Name = AlcoholVFL.FMT

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

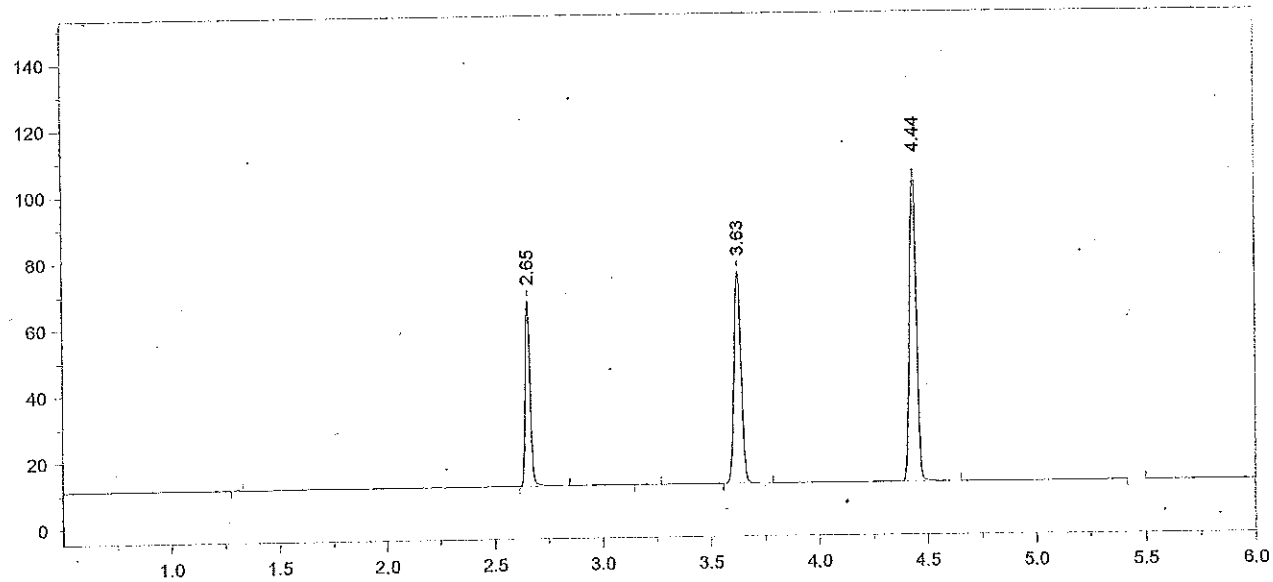
Avg. vials 19+20 = 0.082
11/1/13 [illegible]



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



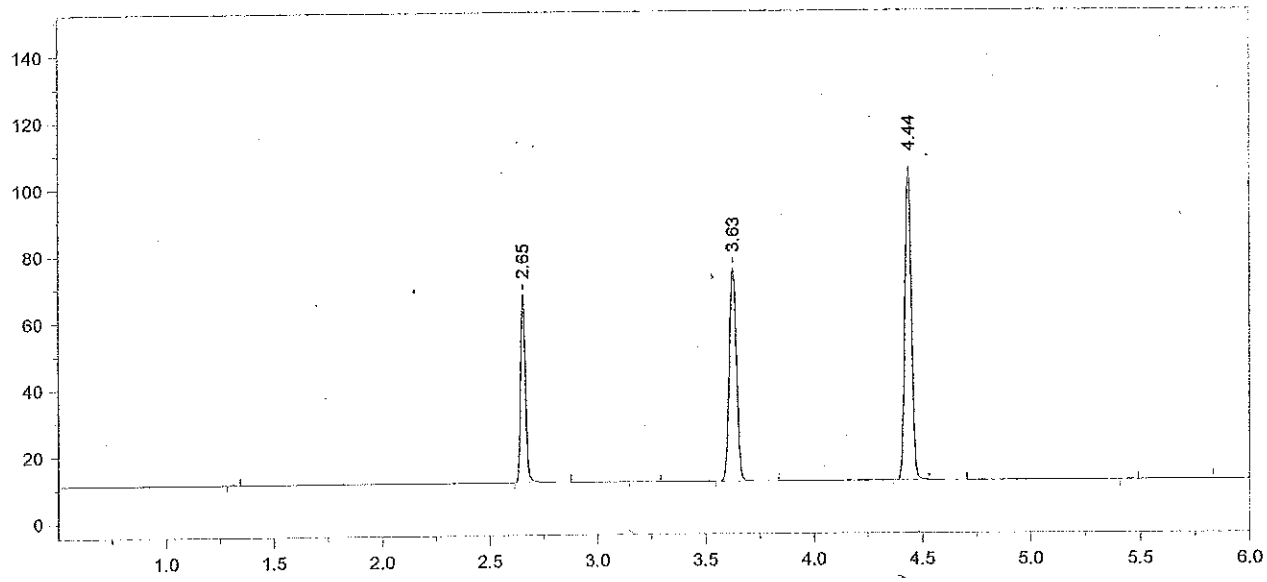
Format File Name = AlcoholVFL.FMT

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

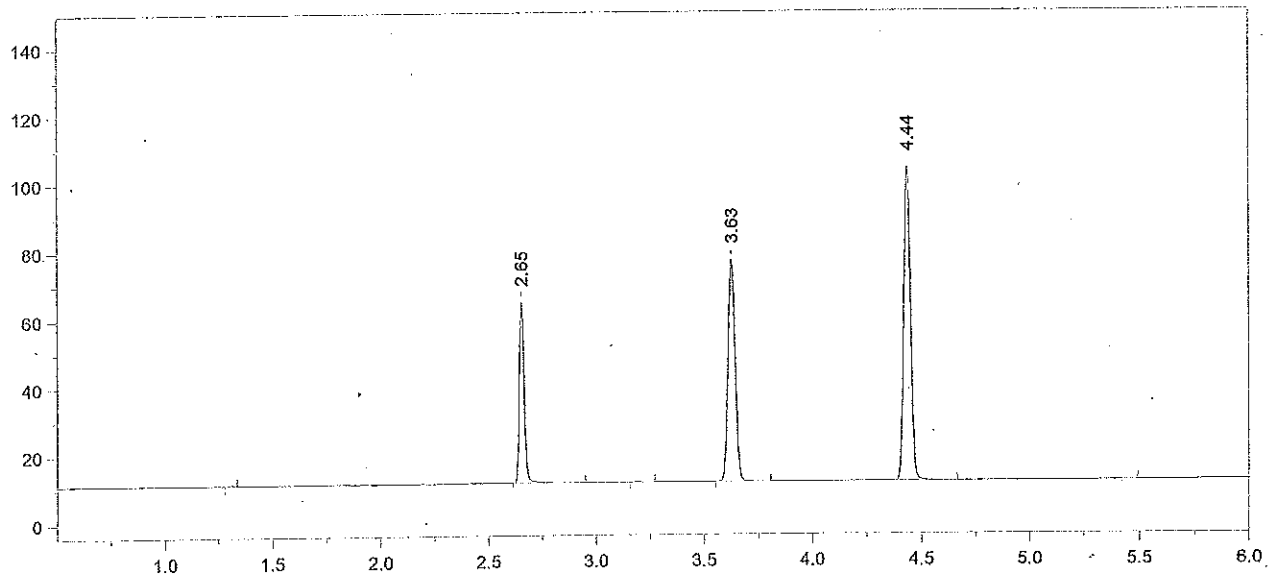
13-20-440 61 [illegible]



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



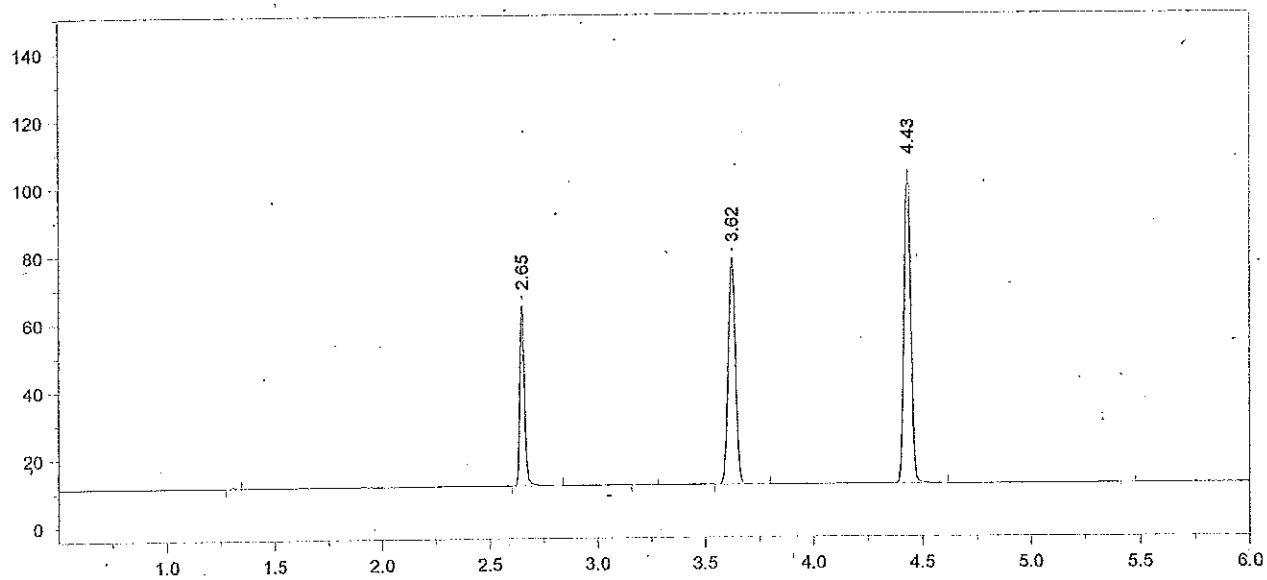
Format File Name = AlcoholVFL.FMT

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 [illegible] 63 [illegible]

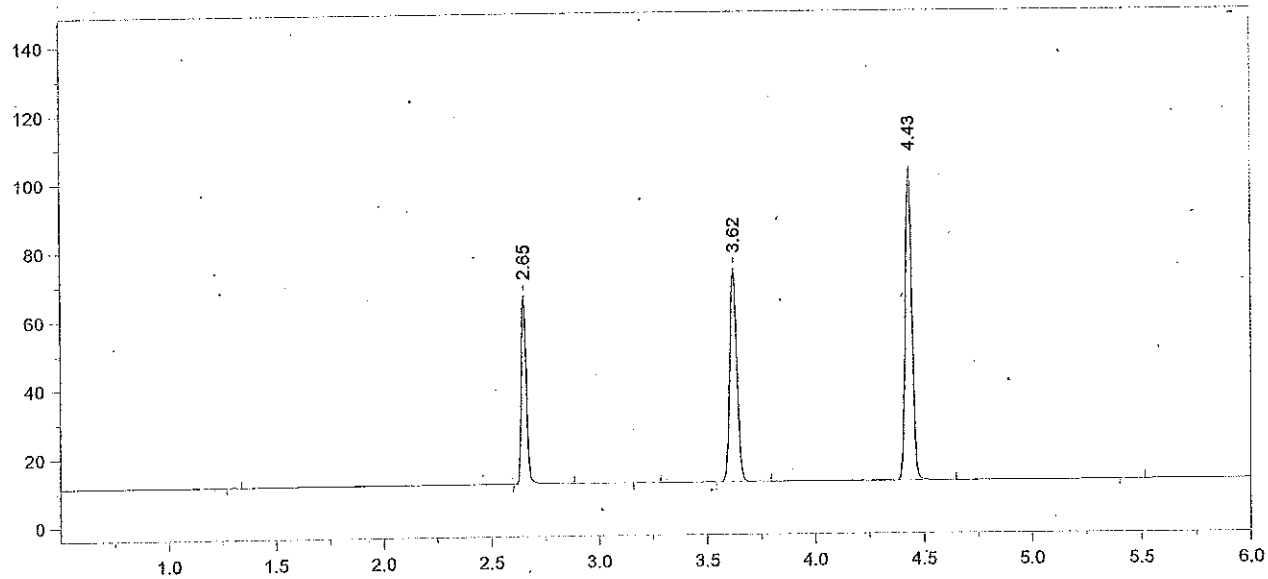


Format File Name = AlcoholVFL.FMT

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

Chrom Perfect Chromatogram Report



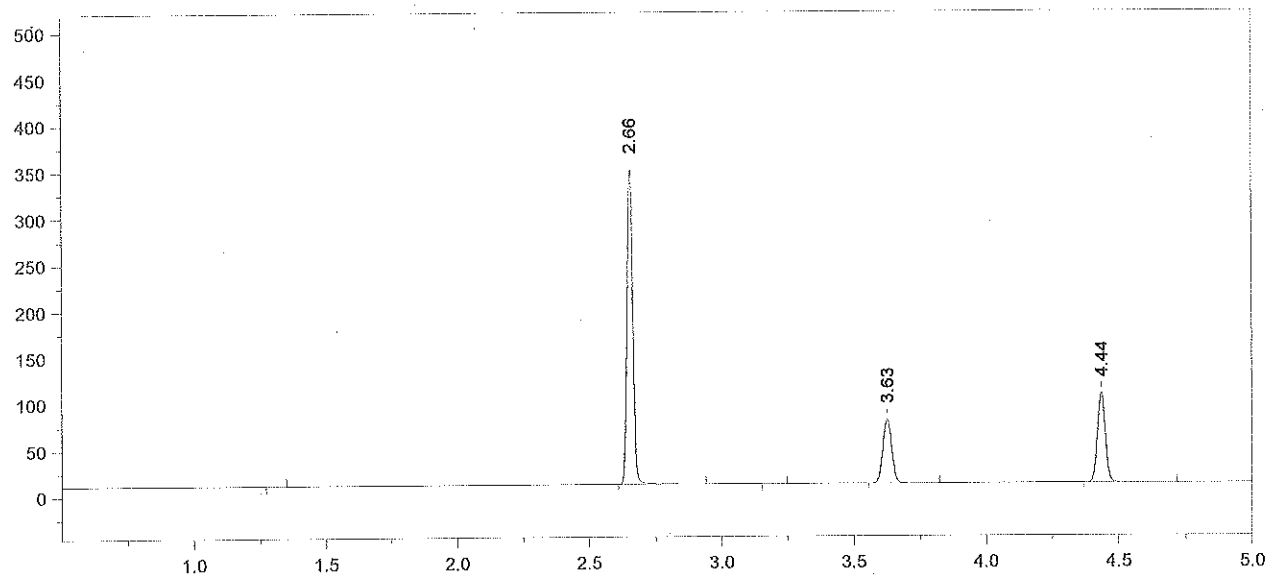
Format File Name = AlcoholVFL.FMT

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]

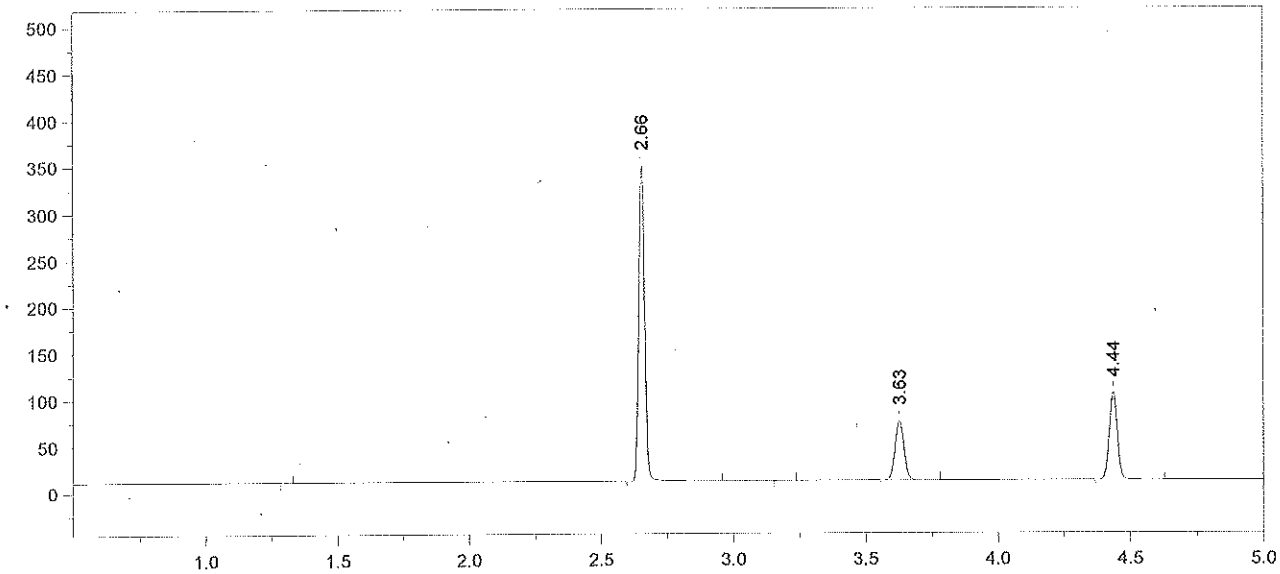
[illegible]



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/1/2013
Today's Time = 2:28:57 AM
Bound File Name = VFL10312013.0048.RAW
Sample Name = 0.40 ALB
Date Taken = 11/1/2013 2:28:52 AM
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	2.66	Ethanol	522649	0.4862	0.3968
4	3.63	t-Butanol	159742	1.0364	0.8459
5	4.44	n-Propanol	205733	1.0000	0.8162

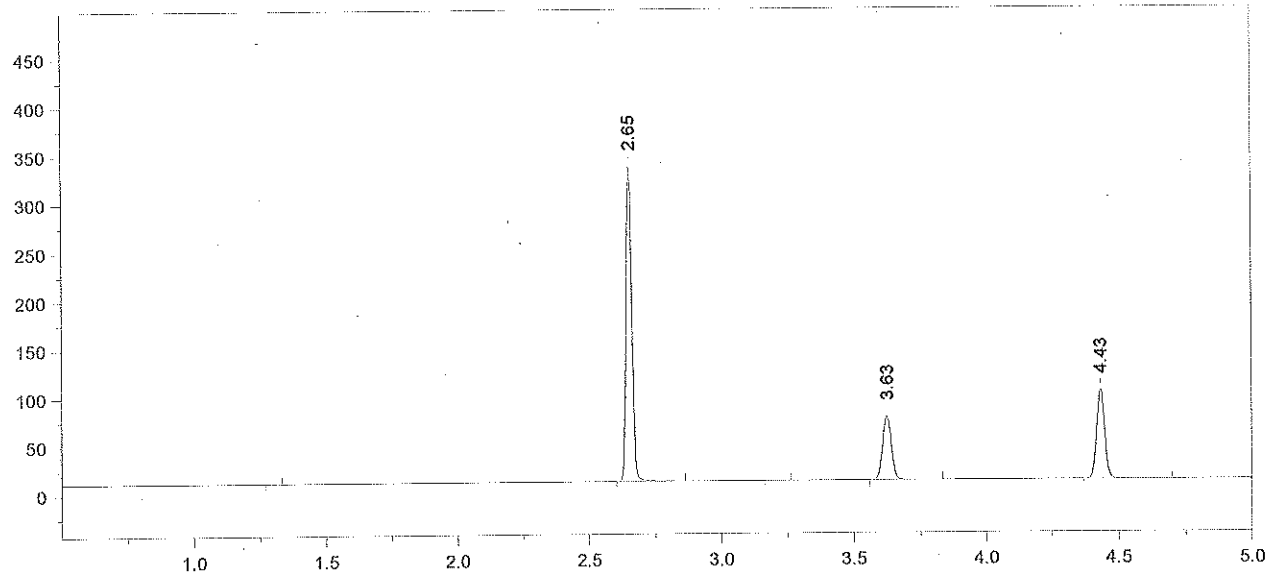


Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/1/2013
Today's Time = 2:42:57 AM
Bound File Name = VFL10312013.0049.RAW
Sample Name = 0.40 ALB
Date Taken = 11/1/2013 2:42:48 AM
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	2.66	Ethanol	521317	0.5022	0.4099
4	3.63	t-Butanol	146658	0.9852	0.8042
5	4.44	n-Propanol	198685	1.0000	0.8162

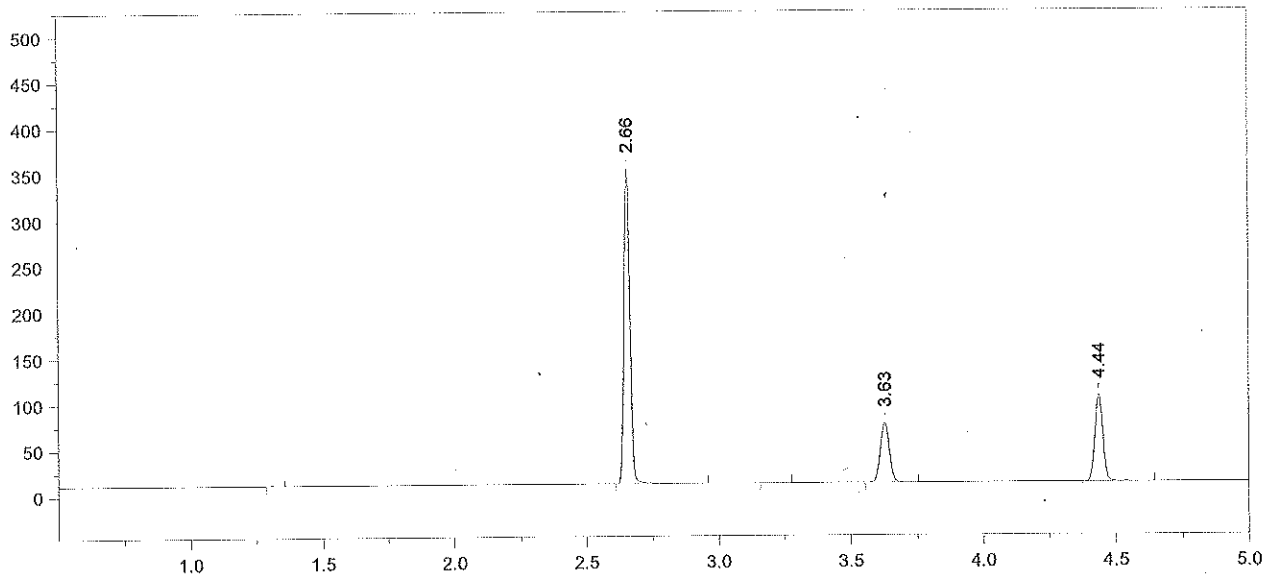
Chrom Perfect Chromatogram Report



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/1/2013
Today's Time = 3:00:26 AM
Bound File Name = VFL10312013.0050.RAW
Sample Name = 0.40 ALB
Date Taken = 11/1/2013 3:00:19 AM
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	498794	0.4869	0.3974
4	3.63	t-Butanol	152641	1.0392	0.8482
5	4.43	n-Propanol	196052	1.0000	0.8162

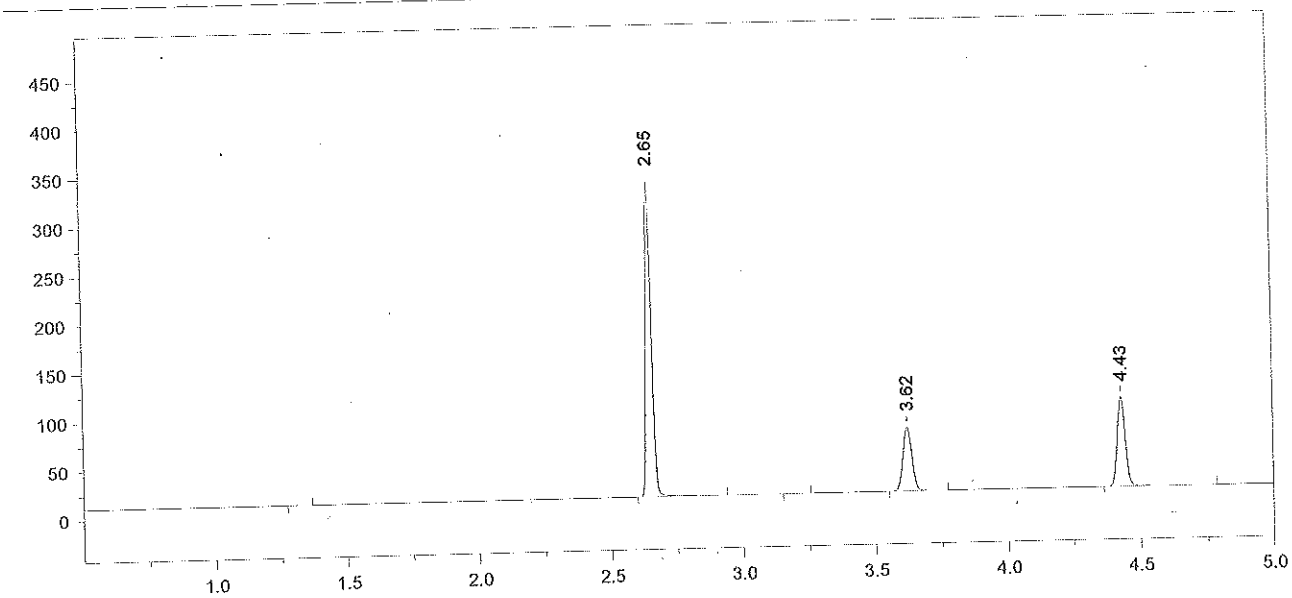


Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/1/2013
Today's Time = 3:14:13 AM
Bound File Name = VFL10312013.0051.RAW
Sample Name = 0.40 ALB
Date Taken = 11/1/2013 3:14:05 AM
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	2.66	Ethanol	526952	0.5009	0.4089
4	3.63	t-Butanol	149213	0.9893	0.8074
5	4.44	n-Propanol	201326	1.0000	0.8162

Chrom Perfect Chromatogram Report



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/1/2013
Bound File Name = VFL10312013.0052.RAW
Sample Name = 0.40 ALB
Date Taken = 11/1/2013 3:31:46 AM
Method file = simsoln.met
Calibration file = VFL10312013.CAL

Today's Time = 3:31:51 AM

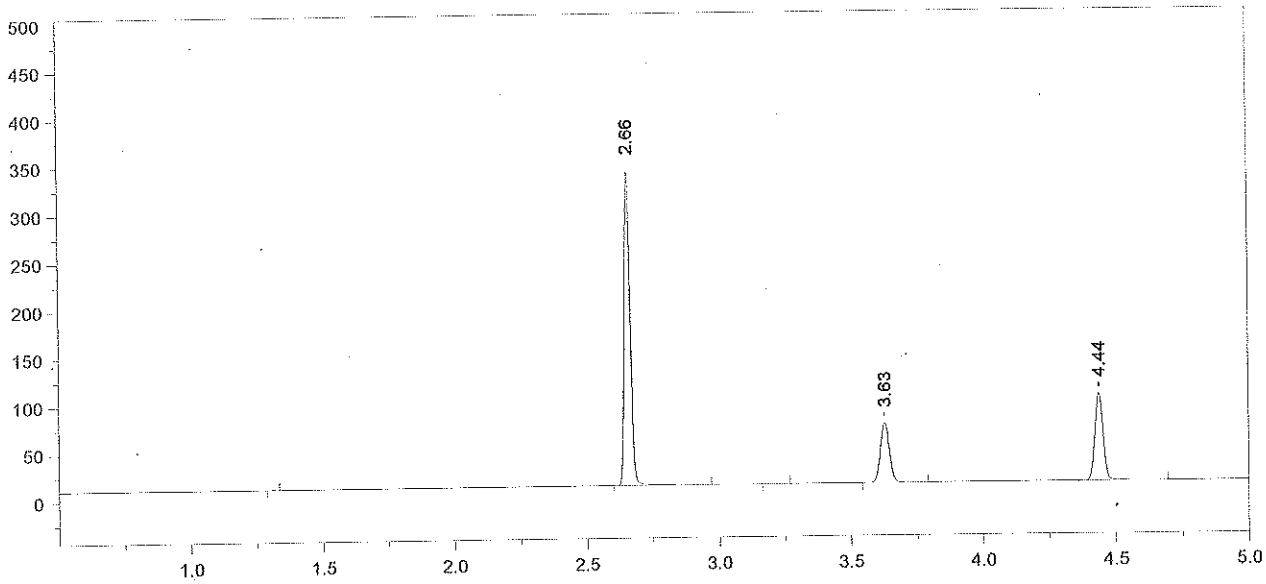
VDH Headspace Alcohol

Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	497512	0.4863	0.3969
4	3.62	t-Butanol	152169	1.0372	0.8466
5	4.43	n-Propanol	195817	1.0000	0.8162

Printed on 11/1/2013 3:31:51 AM

Chrom Perfect Chromatogram Report

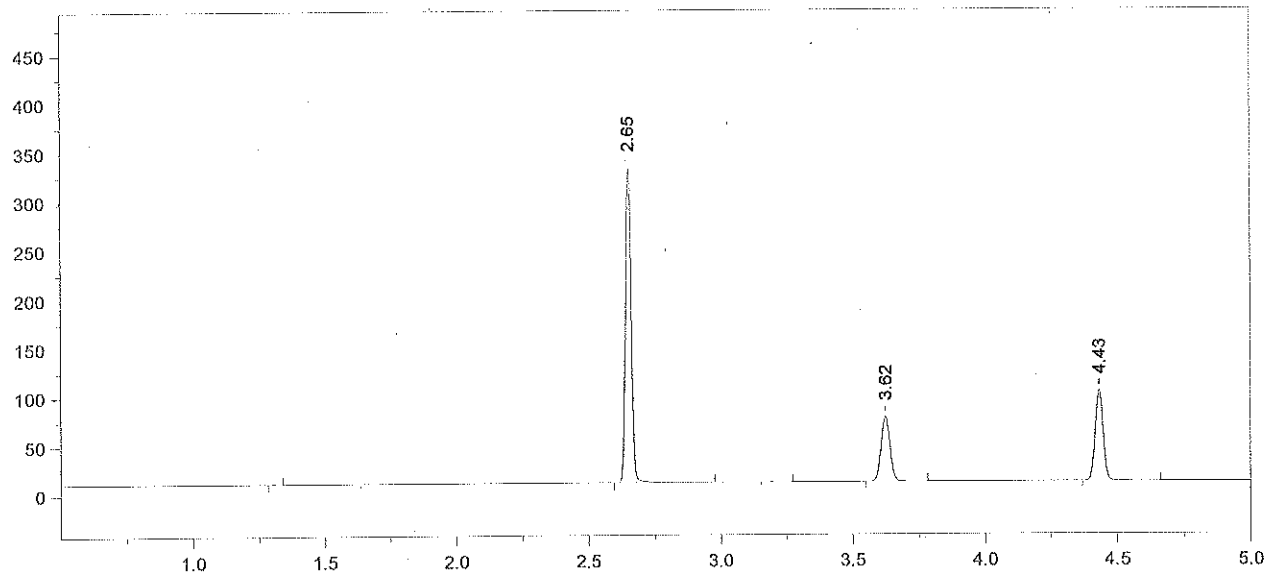


Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/1/2013
Today's Time = 3:45:44 AM
Bound File Name = VFL10312013.0053.RAW
Sample Name = 0.40 ALB
Date Taken = 11/1/2013 3:45:36 AM
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	2.66	Ethanol	508847	0.4986	0.4069
4	3.63	t-Butanol	144705	0.9888	0.8070
5	4.44	n-Propanol	195339	1.0000	0.8162

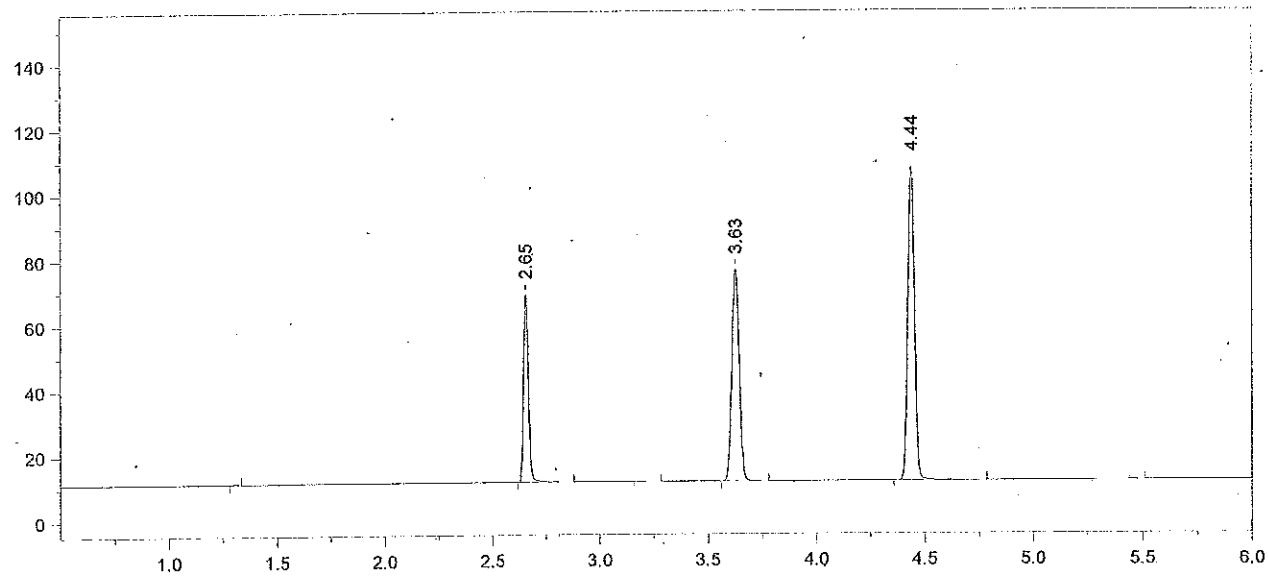
13-20-400 71 dcB



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/1/2013
Today's Time = 4:03:16 AM
Bound File Name = VFL10312013.0054.RAW
Sample Name = 0.40 ALB
Date Taken = 11/1/2013 4:03:10 AM
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	495380	0.4807	0.3923
4	3.62	t-Butanol	153602	1.0395	0.8484
5	4.43	n-Propanol	197237	1.0000	0.8162

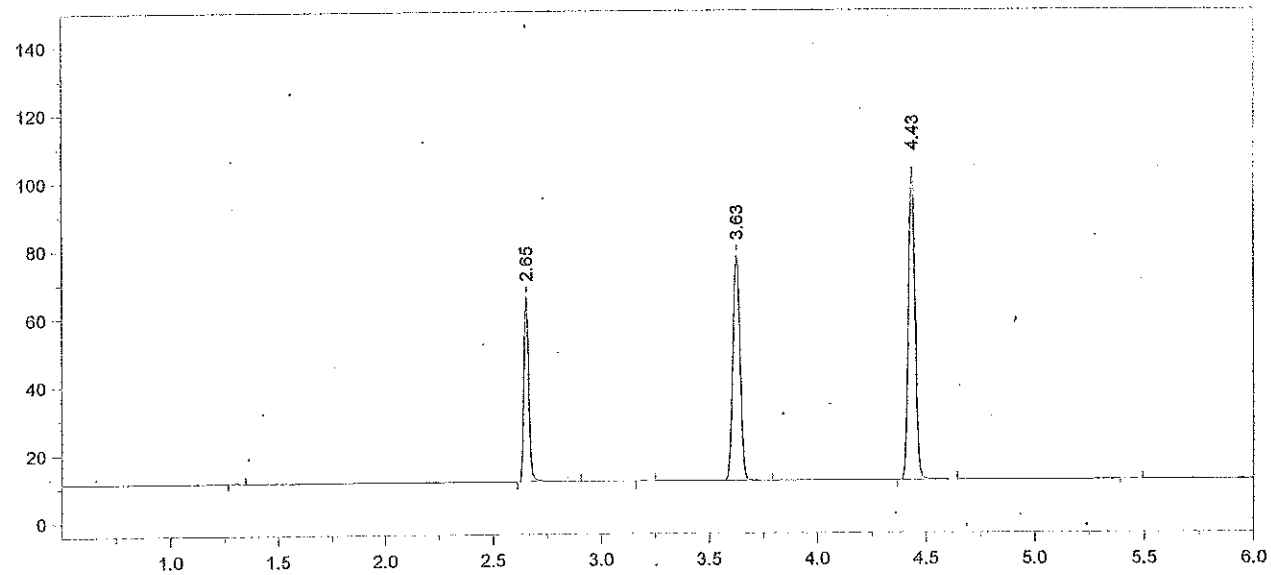


Format File Name = AlcoholVFL.FMT

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

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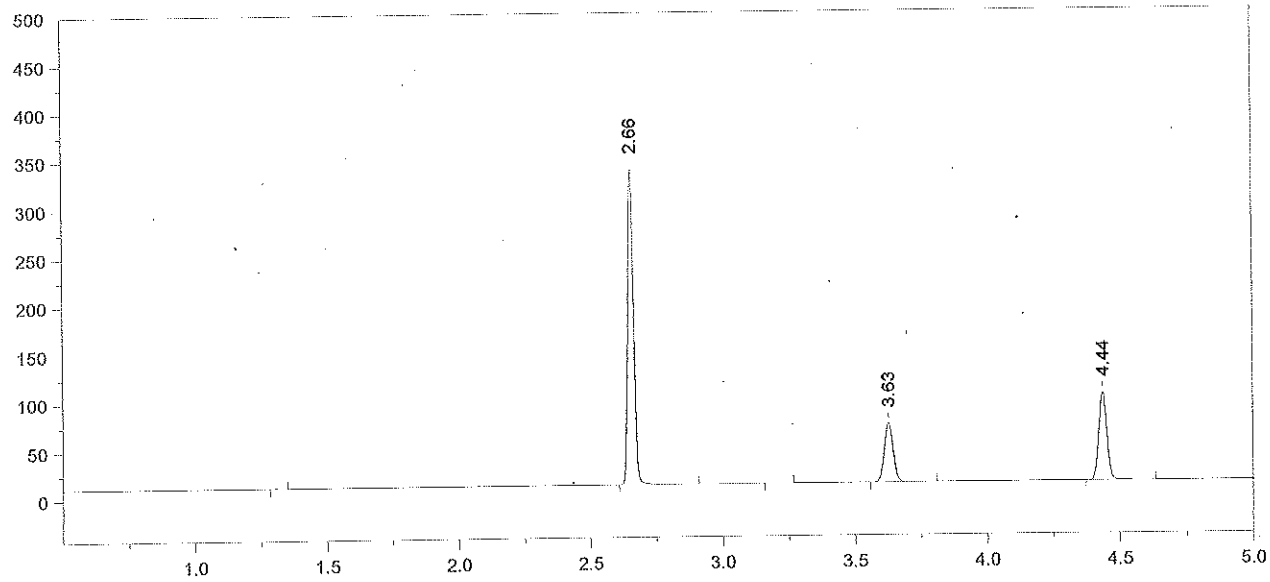
Today's Time = 4:34:41 AM
Bound File Name = VFL10312013.0056.RAW
Sample Name = CCS
Date Taken = 11/1/2013 4:34:37 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10312013.CAL
Calibration Version = 7

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
11/1/13 [illegible]

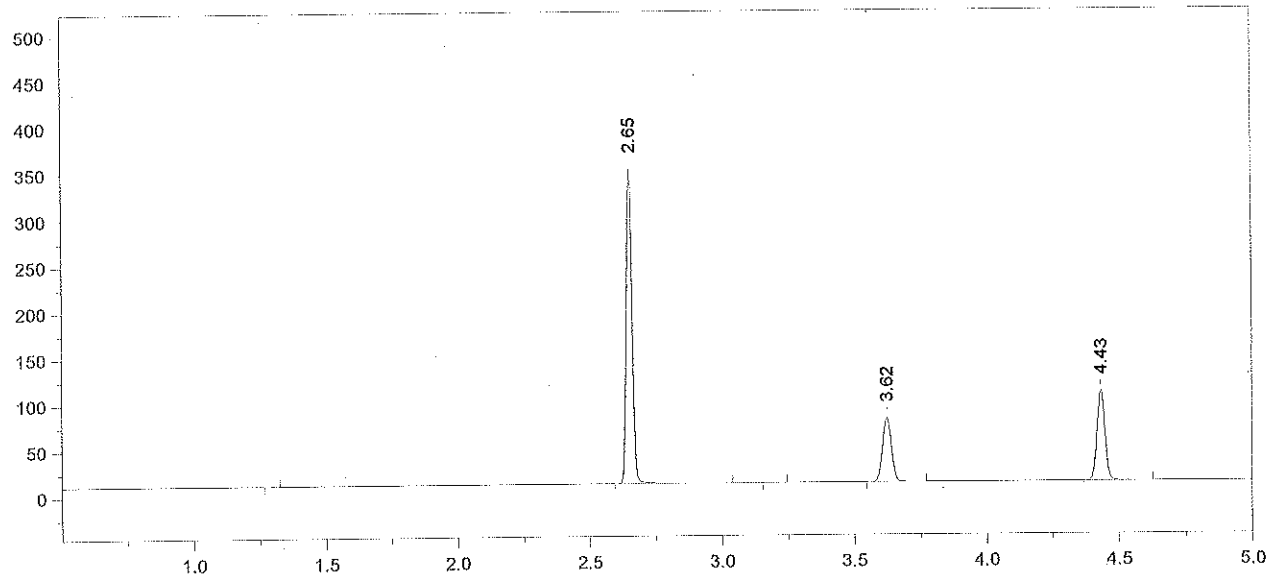
Chrom Perfect Chromatogram Report



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/1/2013
Today's Time = 4:48:49 AM
Bound File Name = VFL10312013.0057.RAW
Sample Name = 0.40 RLM
Date Taken = 11/1/2013 4:48:40 AM
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	2.66	Ethanol	502061	0.4970	0.4057
4	3.63	t-Butanol	141445	0.9766	0.7971
5	4.44	n-Propanol	193328	1.0000	0.8162

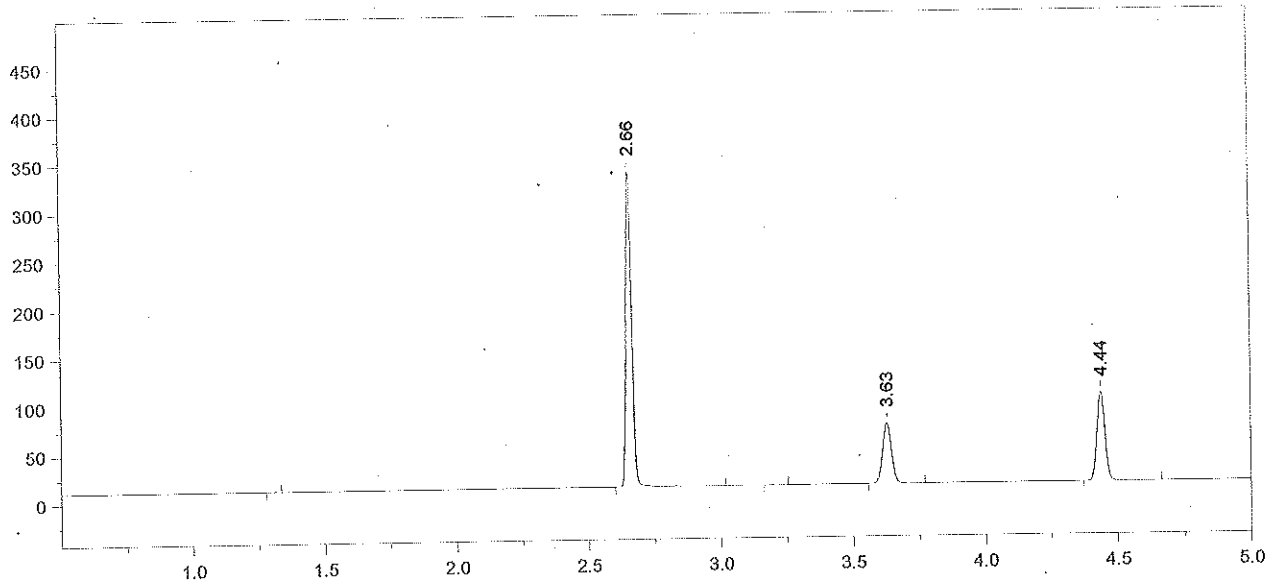


Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/1/2013
Today's Time = 5:06:10 AM
Bound File Name = VFL10312013.0058.RAW
Sample Name = 0.40 RLM
Date Taken = 11/1/2013 5:06:06 AM
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	524407	0.4826	0.3939
4	3.62	t-Butanol	160696	1.0314	0.8418
5	4.43	n-Propanol	207958	1.0000	0.8162

Chrom Perfect Chromatogram Report

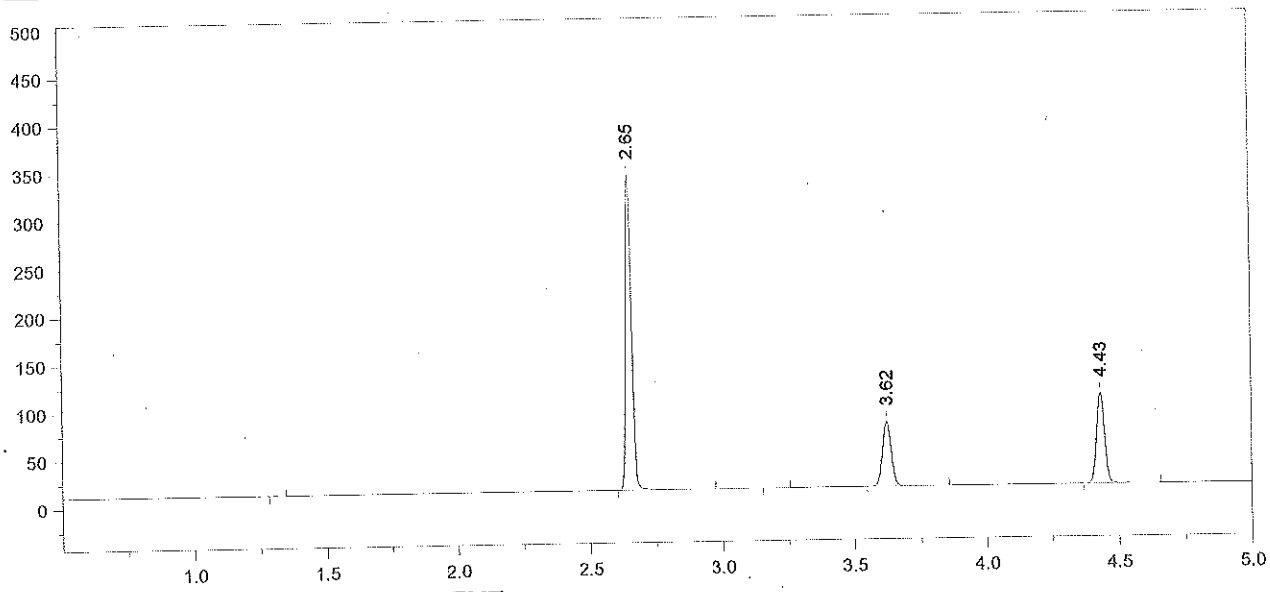


Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/1/2013
Today's Time = 5:19:27 AM
Bound File Name = VFL10312013.0059.RAW
Sample Name = 0.40 RLM
Date Taken = 11/1/2013 5:19:19 AM
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	2.66	Ethanol	502602	0.4930	0.4024
4	3.63	t-Butanol	143686	0.9830	0.8023
5	4.44	n-Propanol	195111	1.0000	0.8162

Chrom Perfect Chromatogram Report

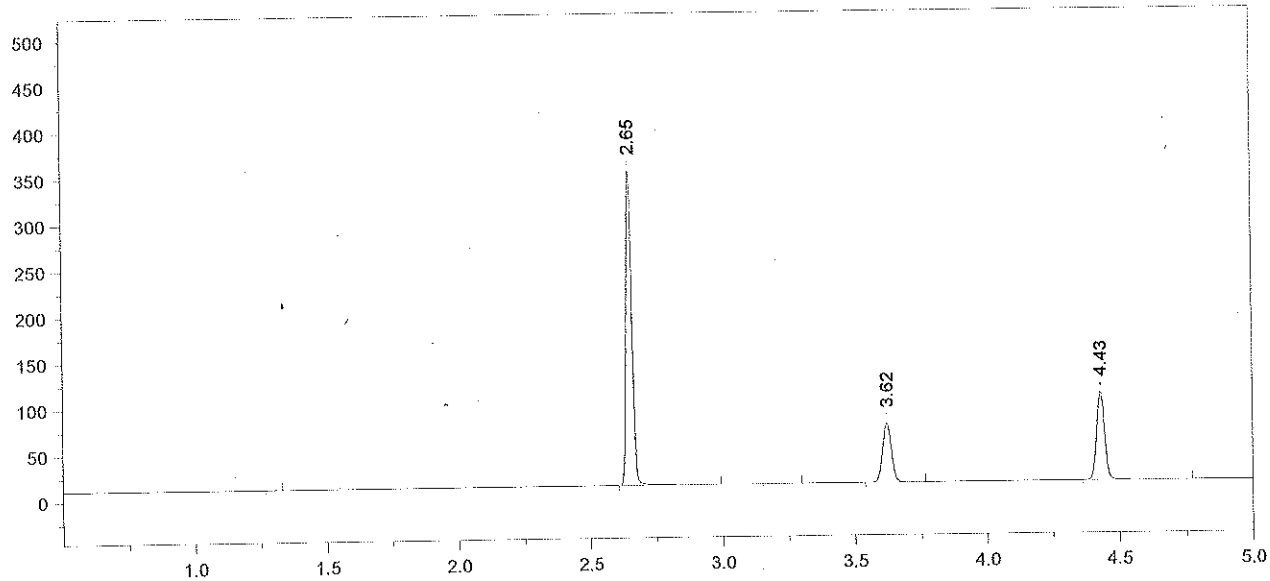


Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/1/2013
Today's Time = 5:37:41 AM
Bound File Name = VFL10312013.0060.RAW
Sample Name = 0.40 RLM
Date Taken = 11/1/2013 5:37:31 AM
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	508745	0.4830	0.3942
4	3.62	t-Butanol	156114	1.0337	0.8437
5	4.43	n-Propanol	201590	1.0000	0.8162

Chrom Perfect Chromatogram Report

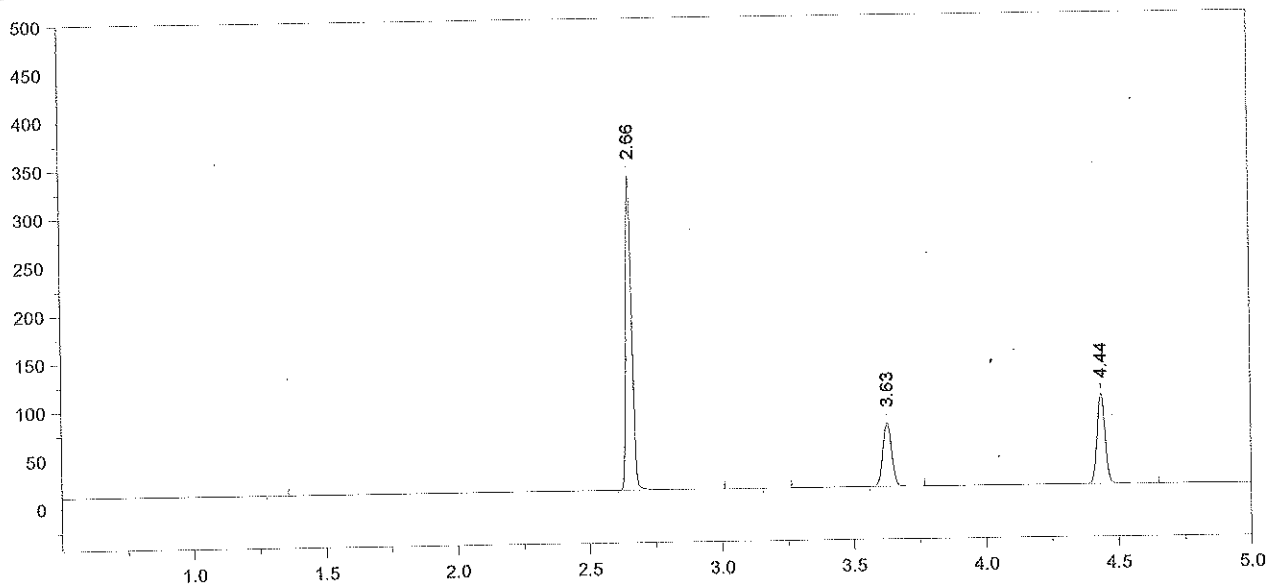


Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/1/2013
Today's Time = 5:51:15 AM
Bound File Name = VFL10312013.0061.RAW
Sample Name = 0.40 RLM
Date Taken = 11/1/2013 5:51:09 AM
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	526260	0.4947	0.4038
4	3.62	t-Butanol	148611	0.9743	0.7952
5	4.43	n-Propanol	203598	1.0000	0.8162

Chrom Perfect Chromatogram Report

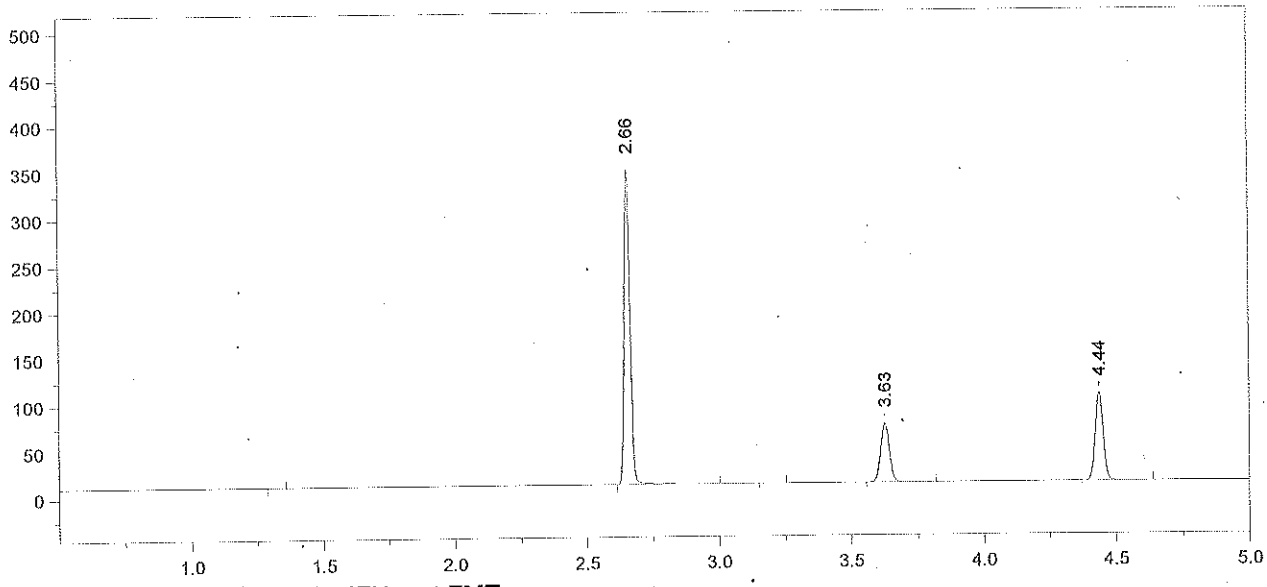


Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/1/2013
Today's Time = 6:09:08 AM
Bound File Name = VFL10312013.0062.RAW
Sample Name = 0.40 RLM
Date Taken = 11/1/2013 6:08:58 AM
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	2.66	Ethanol	500672	0.4845	0.3955
4	3.63	t-Butanol	152364	1.0284	0.8394
5	4.44	n-Propanol	197760	1.0000	0.8162

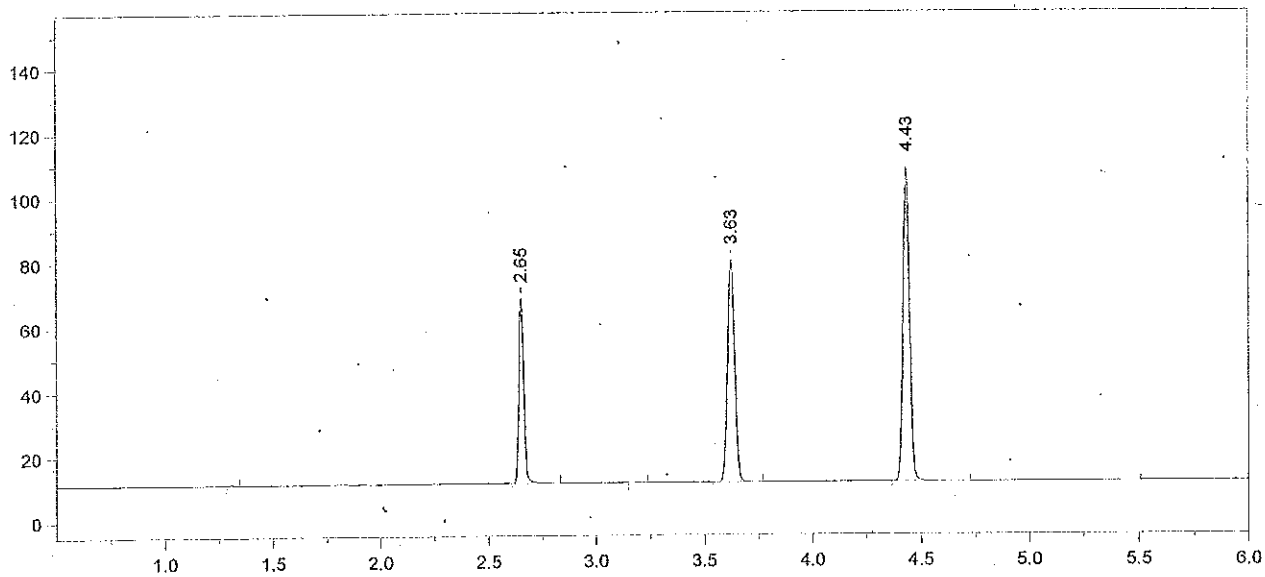
Chrom Perfect Chromatogram Report



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/1/2013
Today's Time = 6:22:56 AM
Bound File Name = VFL10312013.0063.RAW
Sample Name = 0.40 RLM
Date Taken = 11/1/2013 6:22:51 AM
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	2.66	Ethanol	519251	0.4944	0.4035
4	3.63	t-Butanol	146659	0.9739	0.7949
5	4.44	n-Propanol	201005	1.0000	0.8162

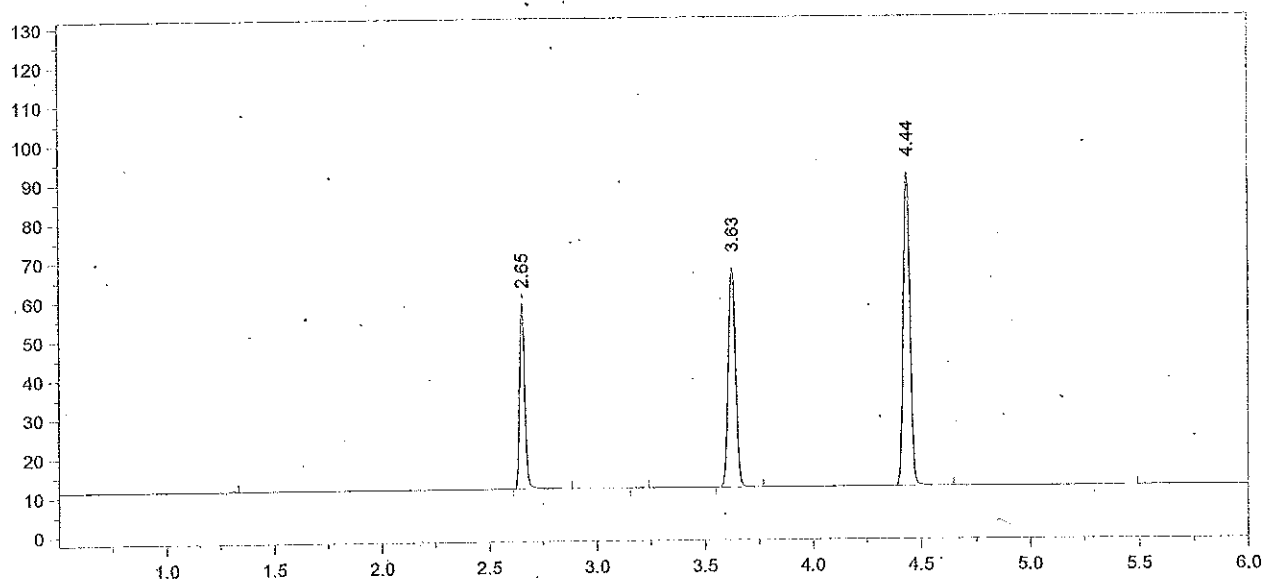


Format File Name = AlcoholVFL.FMT

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

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