VERMONT FORENSIC LABORATORY

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Certificate of Analysis of DataMaster External Standard Solution

On 9/26/2013, an ethanol solution was prepared by Amanda Bolduc for use as a DataMaster External Standard solution. The solution was prepared per standard laboratory practice and assigned the lot number 13-16-100 and an expiration date of 9/26/2014.

On 9/30/2013 and 10/10/2013, the solution was analyzed against calibration VFL09302013 and VFL10102013. 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 0.099 g/210L simulated breath ethanol concentration and approved for use as a DataMaster External Standard solution.

Dated at Waterbury, Vermont on Friday, October 11, 2013.

Amanda Bolduc

0.1 External Standard Solution 20L
Lot # 13-16-100
Prepared 9/26/2013 by ALB
Exp 9/26/2014

ALB CAL VFL09302013
RLM/ALB Vials
Analyzed on 09/30/2013

0.0988	ALB
0.1007	
0.1000	
0.1018	
0.0996	
0.1021	
0.1002	
0.0991	RLM
0.0964	
0.0991	
0.0966	
0.0992	
0.0984	
0.1000	

Ave. = 0.0994
Std Dev. = 0.0016
Range = 0.0964 - 0.1021

ALB CAL VFL10102013
RLM/ALB Vials
Analyzed on 10/10/2013

0.0985	alb
0.1024	
0.0991	
0.1019	
0.0993	
0.0997	
0.0978	
0.1006	rlm
0.0980	
0.1002	
0.0973	
0.0994	
0.0972	
0.0999	

Ave. = 0.0994
Std Dev. = 0.0016
Range = 0.0972 - 0.1024

Total Values from Both Runs

Average	Mean
0.0964	0.0964
0.0966	0.0966
0.0972	0.0972
0.0973	0.0973
0.0978	0.0978
0.0980	0.0980
0.0984	0.0984
0.0985	0.0985
0.0988	0.0988
0.0991	0.0991
0.0991	
0.0991	
0.0992	0.0992
0.0993	0.0993
0.0994	0.0994
0.0996	0.0996
0.0997	0.0997
0.0999	0.0999
0.1000	0.1000
0.1000	
0.1002	0.1002
0.1002	
0.1006	0.1006
0.1007	0.1007
0.1018	0.1018
0.1019	0.1019
0.1021	0.1021
0.1024	0.1024

Ave. =	0.0994
Avg Std Dev. =	0.0016
Mean =	0.0994
Mean Std Dev. =	0.0017
Range =	0.0964 - 0.1024
RPD =	6.03%

10/14/2013

13-16-100 | of 111 73 ALB 10/14/13 ALB

Headspace Alcohol Analysis Standards Coversheet

Analyst: DLB Date: 9/30/13

10/8/2013

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	
Whole Blood	Cliniqa	1212090	0.077	0.069	0.085
AQ	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		0.082	Y N	
6	Standard D		0.198	Y N	
7	Standard E		0.413	Y N	
8	Whole Blood Control		0.0815	Y N	
9	Whole Blood Control		0.0826	Y N	$\bar{X}$ = 0.082 106%
10	AQ QC		0.0779	Y	
11	AQ QC		0.0802	Y	$\bar{X}$ = 0.079 99%

13-16-100 DLB

File Name = C:\Alcohol Data\VFL09302013\VFL09302013.SEQ
Version = 1
File Date = 9/30/2013 11:58:56 AM

Entry #	Raw File Name	Method File Name	Sample Name	Sample Wt.	Int. Std. Amount
1	VFL09302013.0001.raw	Blood Alc temp VFL.MET	Blank	1.00	1.00
2	VFL09302013.0002.raw	Blood Alc temp VFL.MET	TMX	1.00	1.00
3	VFL09302013.0003.raw	Blood Alc temp VFL.MET	STD A	1.00	1.00
4	VFL09302013.0004.raw	Blood Alc temp VFL.MET	STD B	1.00	1.00
5	VFL09302013.0005.raw	Blood Alc temp VFL.MET	STD C	1.00	1.00
6	VFL09302013.0006.raw	Blood Alc temp VFL.MET	STD D	1.00	1.00
7	VFL09302013.0007.raw	Blood Alc temp VFL.MET	STD E	1.00	1.00
8	VFL09302013.0008.raw	Blood Alc temp VFL.MET	WB	1.00	1.00
9	VFL09302013.0009.raw	Blood Alc temp VFL.MET	WB	1.00	1.00
10	VFL09302013.0010.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
11	VFL09302013.0011.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
12	VFL09302013.0012.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
13	VFL09302013.0013.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
14	VFL09302013.0014.raw	Blood Alc temp VFL.MET	V13-2013 A1-1	1.00	1.00
15	VFL09302013.0015.raw	Blood Alc temp VFL.MET	V13-2013 A1-1	1.00	1.00
16	VFL09302013.0016.raw	Blood Alc temp VFL.MET	V13-2035 A1-1	1.00	1.00
17	VFL09302013.0017.raw	Blood Alc temp VFL.MET	V13-2035 A1-1	1.00	1.00
18	VFL09302013.0018.raw	Blood Alc temp VFL.MET	V13-2038 A1-1	1.00	1.00
19	VFL09302013.0019.raw	Blood Alc temp VFL.MET	V13-2038 A1-1	1.00	1.00
20	VFL09302013.0020.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
21	VFL09302013.0021.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
22	VFL09302013.0022.raw	simsoln.met	0.10 ALB	1.00	1.00
23	VFL09302013.0023.raw	simsoln.met	0.10 ALB	1.00	1.00
24	VFL09302013.0024.raw	simsoln.met	0.10 ALB	1.00	1.00
25	VFL09302013.0025.raw	simsoln.met	0.10 ALB	1.00	1.00
26	VFL09302013.0026.raw	simsoln.met	0.10 ALB	1.00	1.00
27	VFL09302013.0027.raw	simsoln.met	0.10 ALB	1.00	1.00
28	VFL09302013.0028.raw	simsoln.met	0.10 ALB	1.00	1.00
29	VFL09302013.0029.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
30	VFL09302013.0030.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
31	VFL09302013.0031.raw	simsoln.met	0.10 RLM	1.00	1.00
32	VFL09302013.0032.raw	simsoln.met	0.10 RLM	1.00	1.00
33	VFL09302013.0033.raw	simsoln.met	0.10 RLM	1.00	1.00
34	VFL09302013.0034.raw	simsoln.met	0.10 RLM	1.00	1.00
35	VFL09302013.0035.raw	simsoln.met	0.10 RLM	1.00	1.00
36	VFL09302013.0036.raw	simsoln.met	0.10 RLM	1.00	1.00
37	VFL09302013.0037.raw	simsoln.met	0.10 RLM	1.00	1.00
38	VFL09302013.0038.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
39	VFL09302013.0039.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00

Case samples not included 10/8/13 [illegible]

13-16-100 3 [illegible]

File Name: C:\Methods\VFL09302013.CAL
Version: 7

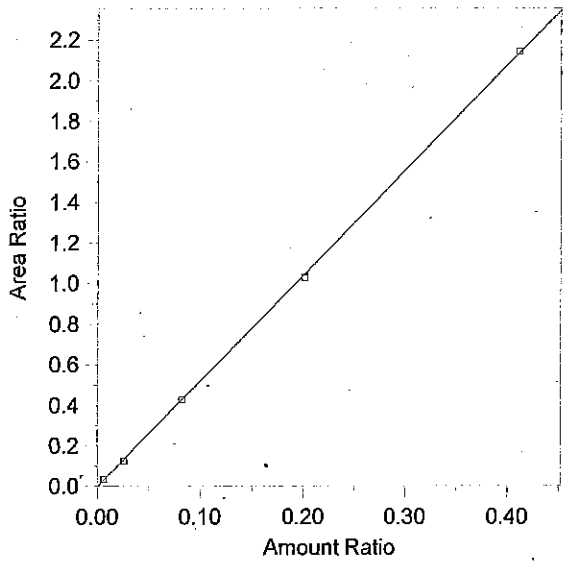
Creator:
Description:
Reason for change:

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:	2.657 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

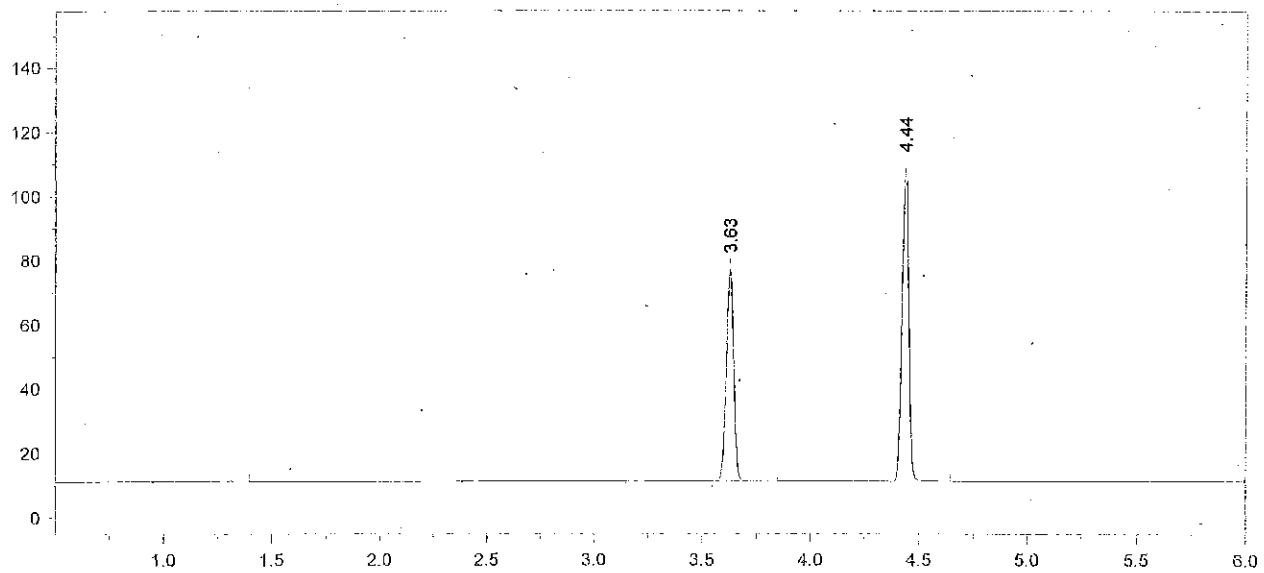
Single peak quantification by area

Y = 5.190613 X + 0

Linear fit with equal weighting, forced to origin

Coefficient of determination:	0.9998839
Average error:	2.548%
Average CF:	5.165349
RSD:	3.836%

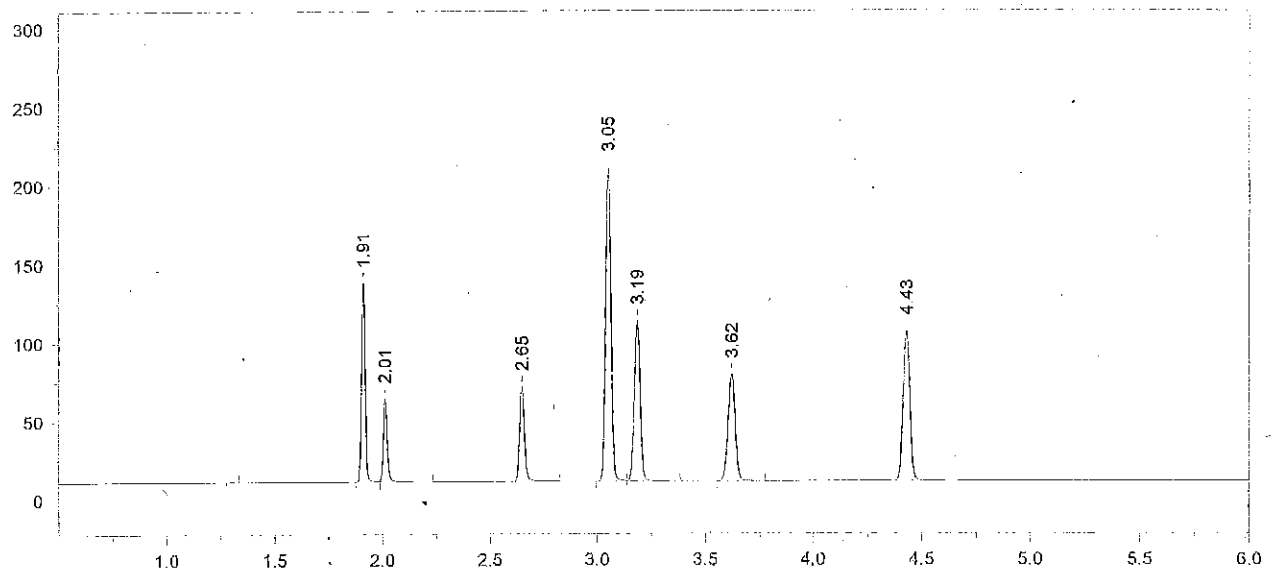
Level	Amount	Response	Cal Factor	Error, %	Amount Ratio	Response Ratio	Source	Date and time
1	(0.091)	(85146)	--	--	0.091	85146	Manual	8/12/2013 4:03:34 PM
2	0.0063	6479.903	1028556	4.777	0.0063	3.426307E-02	C:\Alcohol Data\VFL09302013\VFL09302013.0003.BND	9/30/2013 3:13:43 PM
3	0.0254	24370.32	959461.4	-5.863	0.0254	0.1241122	C:\Alcohol Data\VFL09302013\VFL09302013.0004.BND	9/30/2013 3:30:52 PM
4	0.0822	84038.57	1022367	-0.293	0.0822	0.4254198	C:\Alcohol Data\VFL09302013\VFL09302013.0005.BND	9/30/2013 3:44:52 PM
5	0.2012	202865.7	1008279	-1.431	0.2012	1.029404	C:\Alcohol Data\VFL09302013\VFL09302013.0006.BND	9/30/2013 4:02:15 PM
6	0.4112	422515.4	1027518	0.376	0.4112	2.142397	C:\Alcohol Data\VFL09302013\VFL09302013.0007.BND	9/30/2013 4:16:10 PM



Format File Name = AlcoholVFL.FMT

Today's Date = 10/1/2013
Today's Time = 8:20:21 AM
Bound File Name = VFL09302013.0001.RAW
Sample Name = Blank
Date Taken = 9/30/2013 2:42:21 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	3.63	t-Butanol	152983	0.9596
5	4.44	n-Propanol	207132	1.0000



Format File Name = AlcoholVFL.FMT

Today's Date = 10/1/2013
Today's Time = 8:20:29 AM
Bound File Name = VFL09302013.0002.RAW
Sample Name = TMX
Date Taken = 9/30/2013 2:59:23 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	1.91	Acetaldehyde	150322	0.0520
4	2.01	Methanol	67913	0.1370
5	2.65	Ethanol	94009	0.0895
6	3.05	Acetone	343378	0.0940
7	3.19	Isopropanol	193213	0.0850
8	3.62	t-Butanol	157463	1.0110
9	4.43	n-Propanol	202368	1.0000

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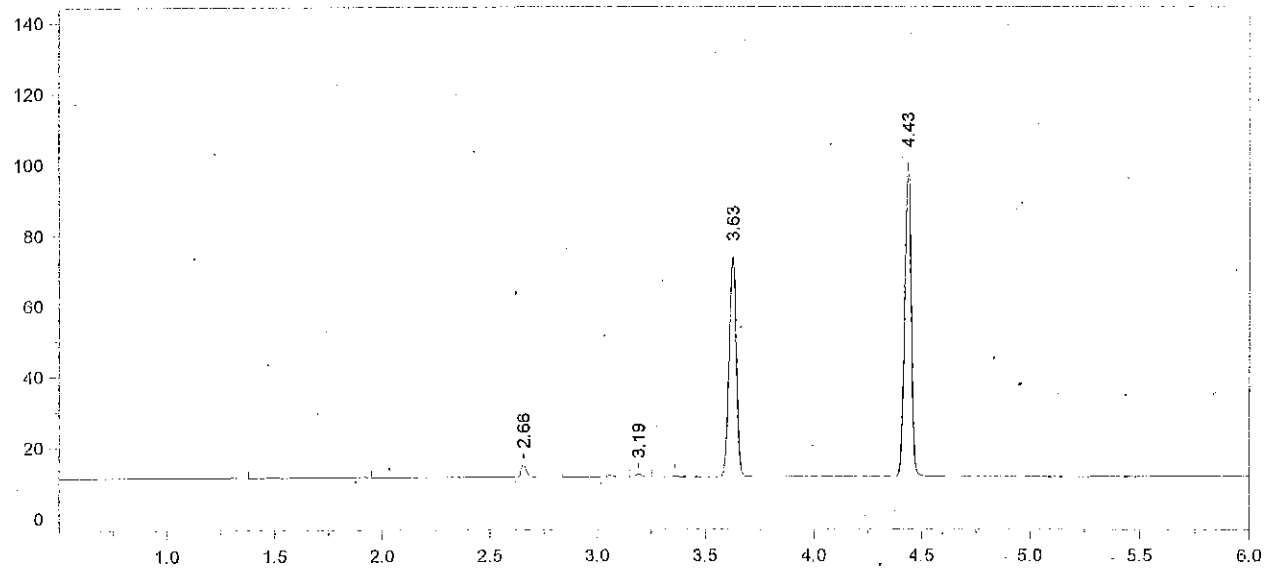

Format File Name = AlcoholVFL.FMT

Today's Date = 10/1/2013
Today's Time = 8:20:34 AM
Bound File Name = VFL09302013.0003.RAW
Sample Name = STD A
Date Taken = 9/30/2013 3:13:35 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	2.66	Ethanol	06480	0.0066
6	3.19	Isopropanol	01579	<0.004
7	3.63	t-Butanol	144378	0.9919
8	4.43	n-Propanol	189122	1.0000

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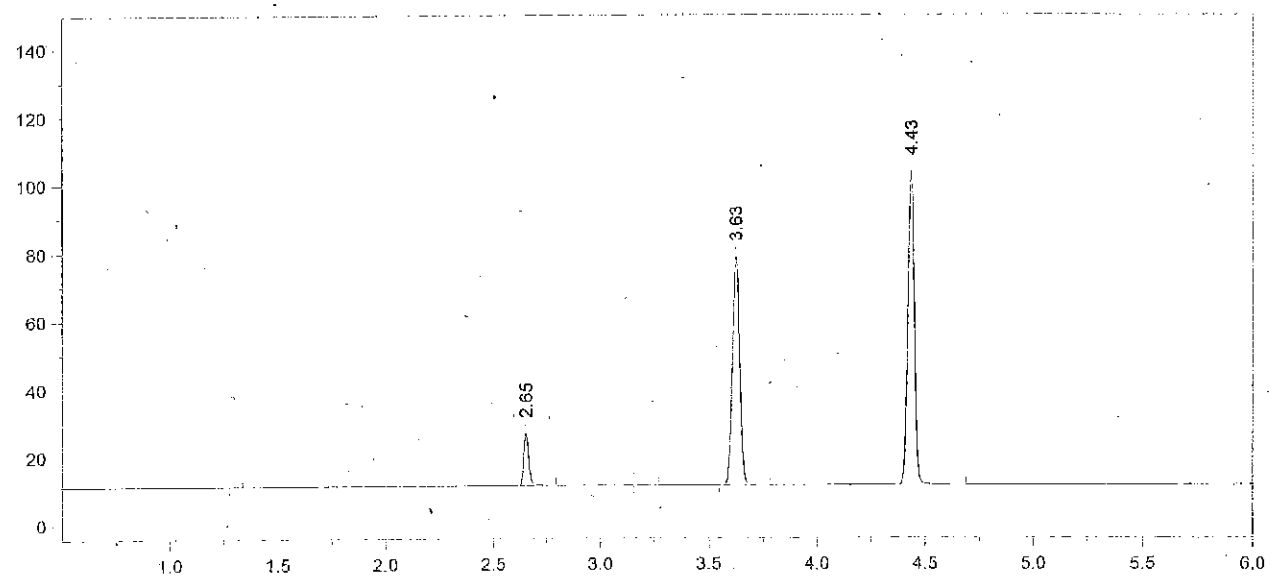

Format File Name = AlcoholVFL.FMT

Today's Date = 10/1/2013
Today's Time = 8:20:39 AM
Bound File Name = VFL09302013.0004.RAW
Sample Name = STD B
Date Taken = 9/30/2013 3:30:46 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	24370	0.0239
5	3.63	t-Butanol	155207	1.0270
6	4.43	n-Propanol	196357	1.0000

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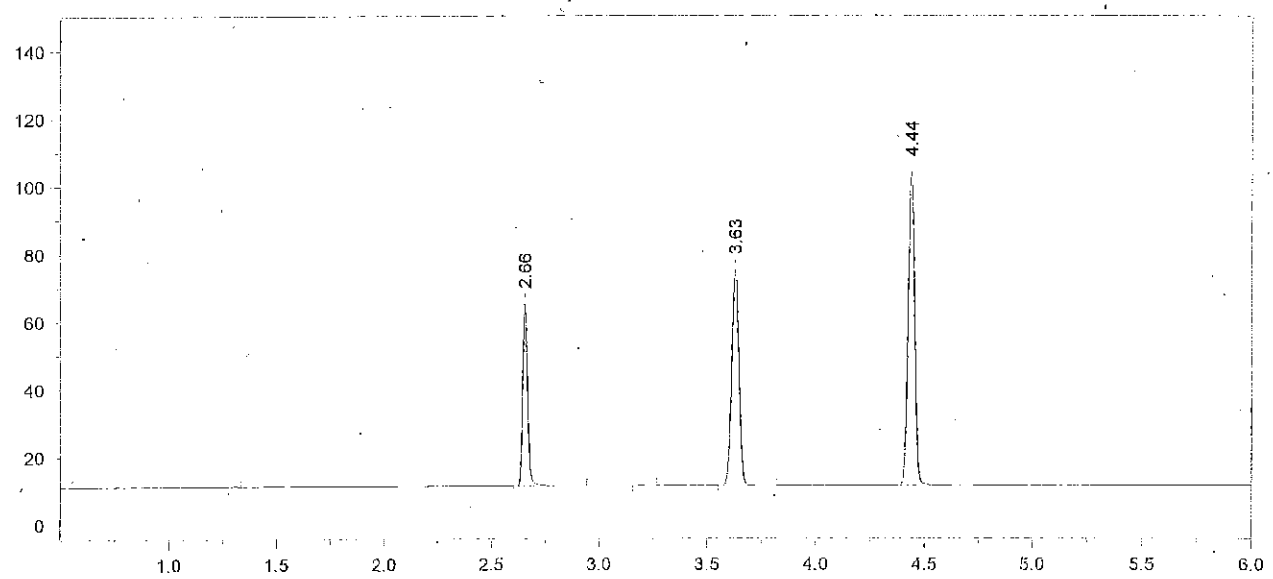

Format File Name = AlcoholVFL.FMT

Today's Date = 10/1/2013
Today's Time = 8:20:45 AM
Bound File Name = VFL09302013.0005.RAW
Sample Name = STD C
Date Taken = 9/30/2013 3:44:42 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	84039	0.0820
5	3.63	t-Butanol	147549	0.9705
6	4.44	n-Propanol	197543	1.0000

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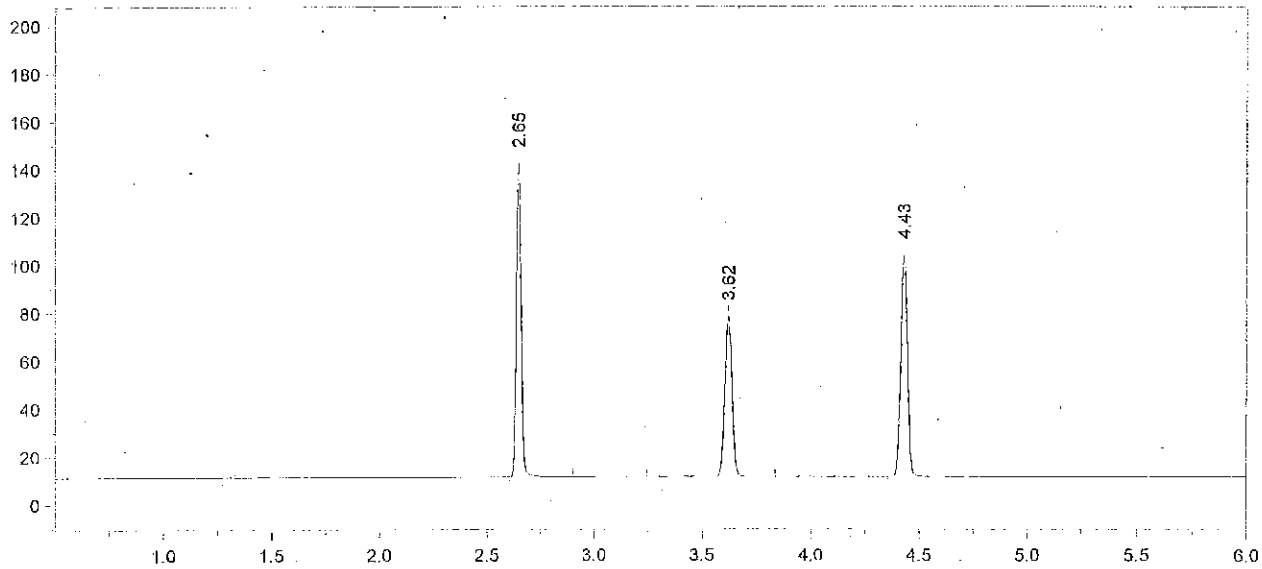

Format File Name = AlcoholVFL.FMT

Today's Date = 10/1/2013
Today's Time = 8:20:51 AM
Bound File Name = VFL09302013.0006.RAW
Sample Name = STD D
Date Taken = 9/30/2013 4:02:11 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	202866	0.1983
5	3.62	t-Butanol	154948	1.0216
6	4.43	n-Propanol	197071	1.0000

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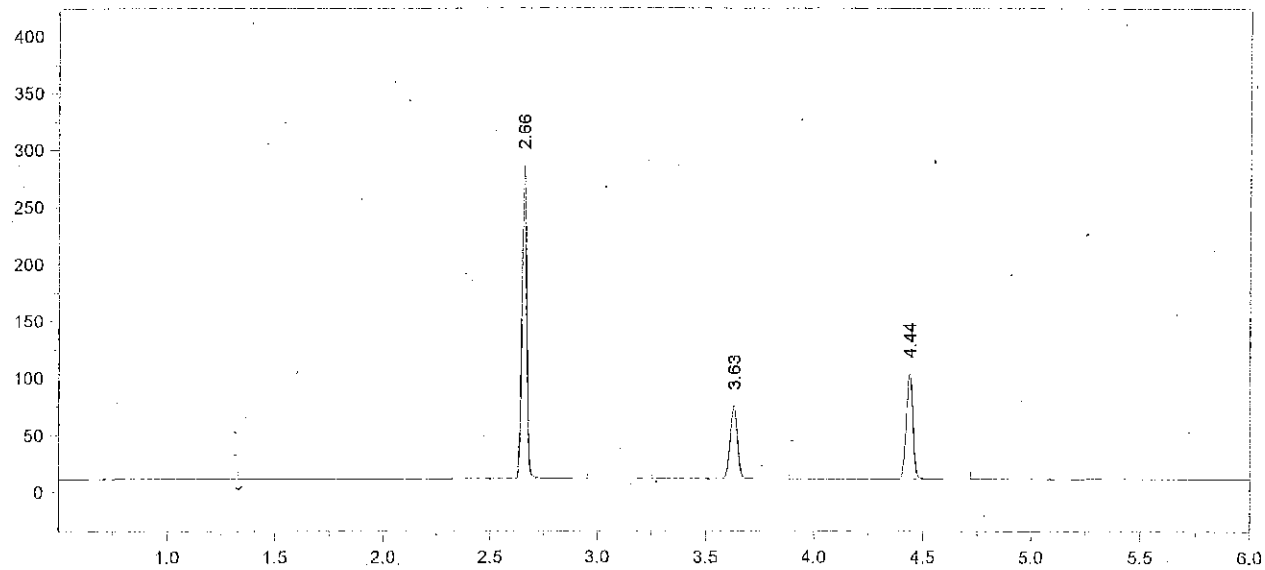

Format File Name = AlcoholVFL.FMT

Today's Date = 10/1/2013
Today's Time = 8:20:56 AM
Bound File Name = VFL09302013.0007.RAW
Sample Name = STD E
Date Taken = 9/30/2013 4:16:04 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	422515	0.4127
5	3.63	t-Butanol	148456	0.9781
6	4.44	n-Propanol	197216	1.0000

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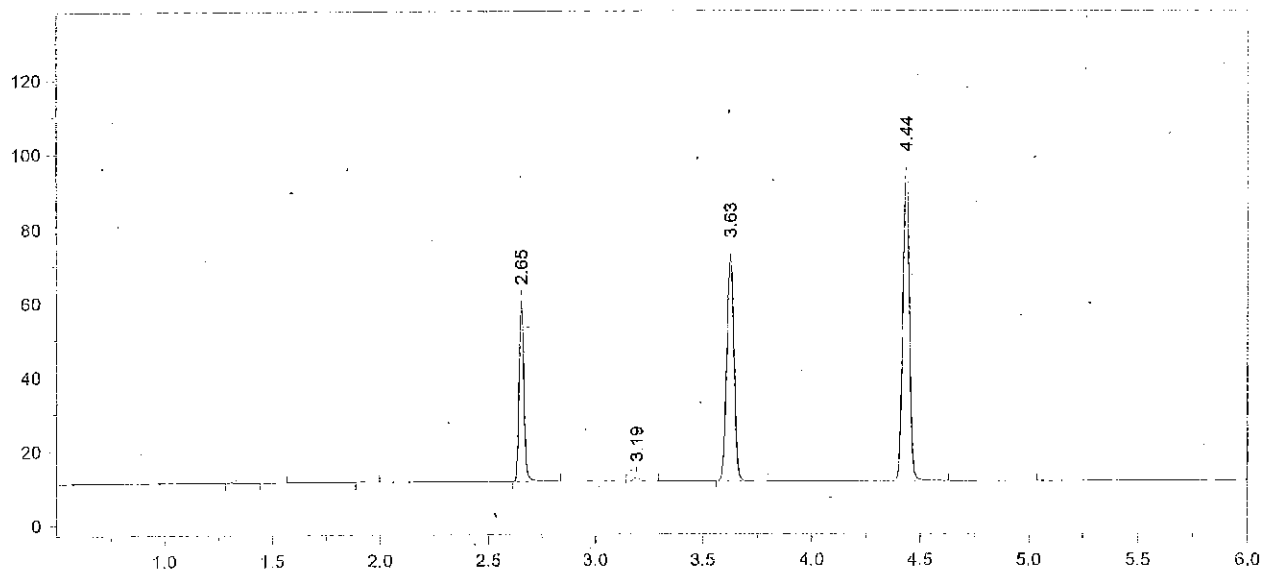

Format File Name = AlcoholVFL.FMT

Today's Date = 9/30/2013
Today's Time = 4:33:43 PM
Bound File Name = VFL09302013.0008.RAW
Sample Name = WB
Date Taken = 9/30/2013 4:33:35 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
5	2.65	Ethanol	76229	0.0815
7	3.19	Isopropanol	02081	<0.004
8	3.63	t-Butanol	142171	1.0254
9	4.44	n-Propanol	180143	1.0000

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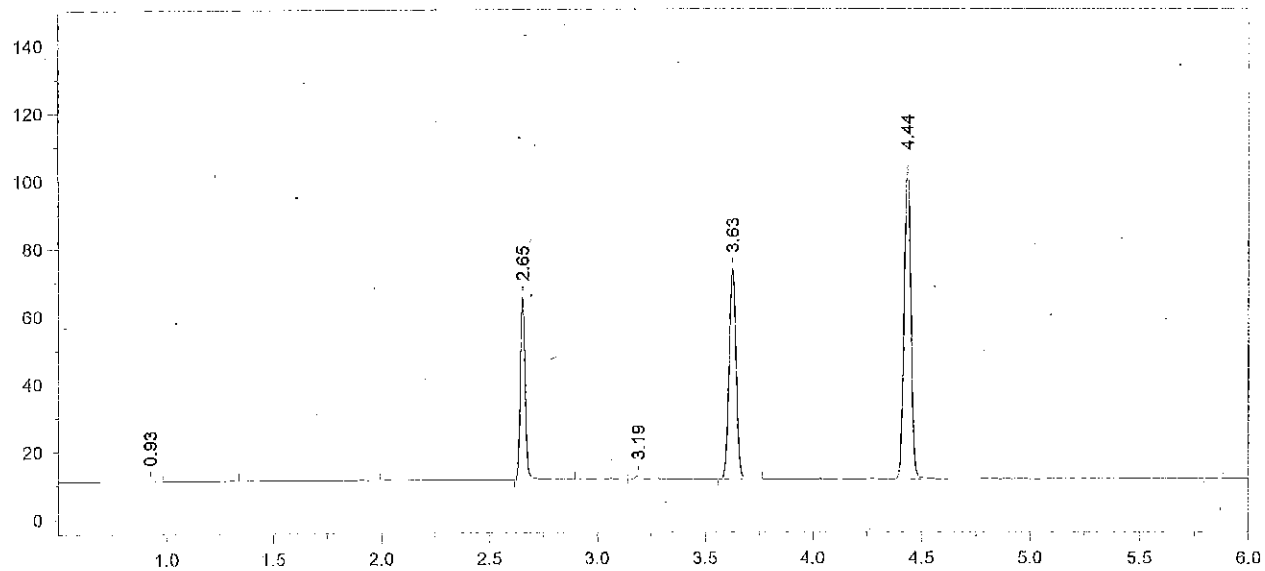

Format File Name = AlcoholVFL.FMT

Today's Date = 9/30/2013
Today's Time = 4:47:07 PM
Bound File Name = VFL09302013.0009.RAW
Sample Name = WB
Date Taken = 9/30/2013 4:46:58 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	2.65	Ethanol	84828	0.0826
6	3.19	Isopropanol	02206	<0.004
7	3.63	t-Butanol	144333	0.9473
8	4.44	n-Propanol	197958	1.0000

Avg vials 8 + 9 = 0.082
106%
10/1/13

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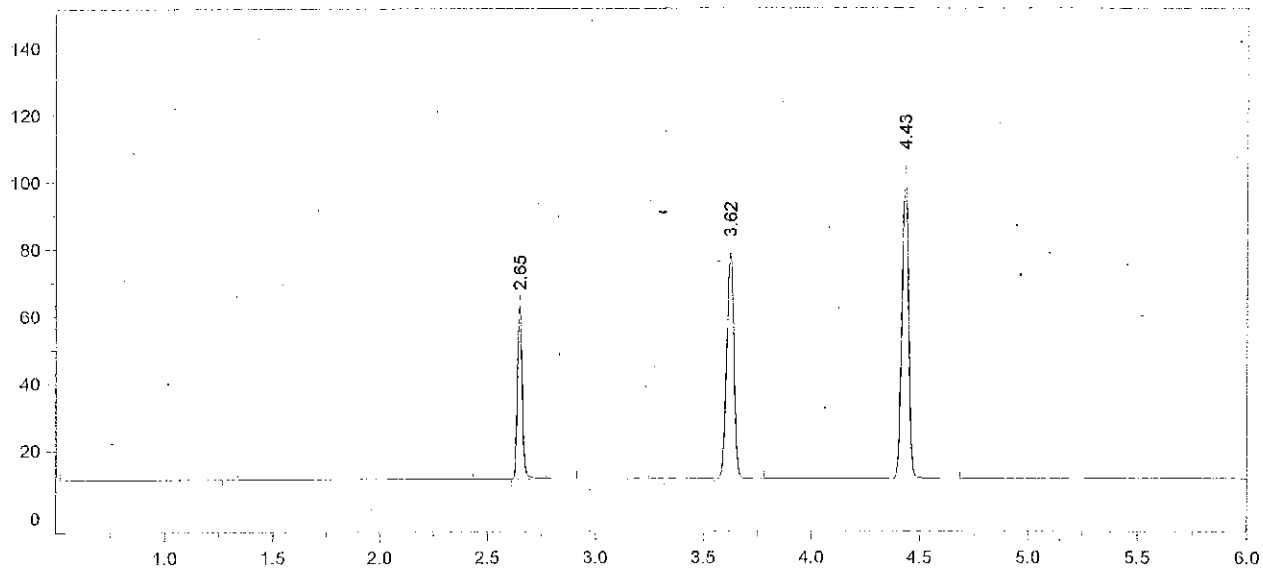

Format File Name = AlcoholVFL.FMT

Today's Date = 9/30/2013
Today's Time = 5:05:12 PM
Bound File Name = VFL09302013.0010.RAW
Sample Name = AQ QC
Date Taken = 9/30/2013 5:05:03 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	80478	0.0779
5	3.62	t-Butanol	155755	1.0173
6	4.43	n-Propanol	198940	1.0000

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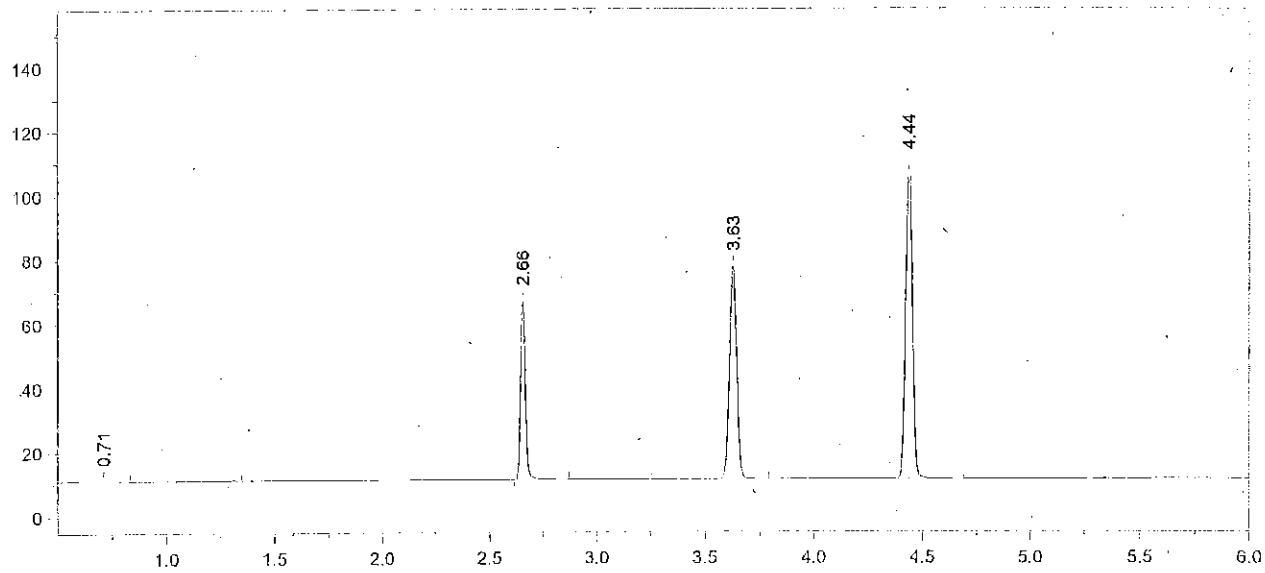


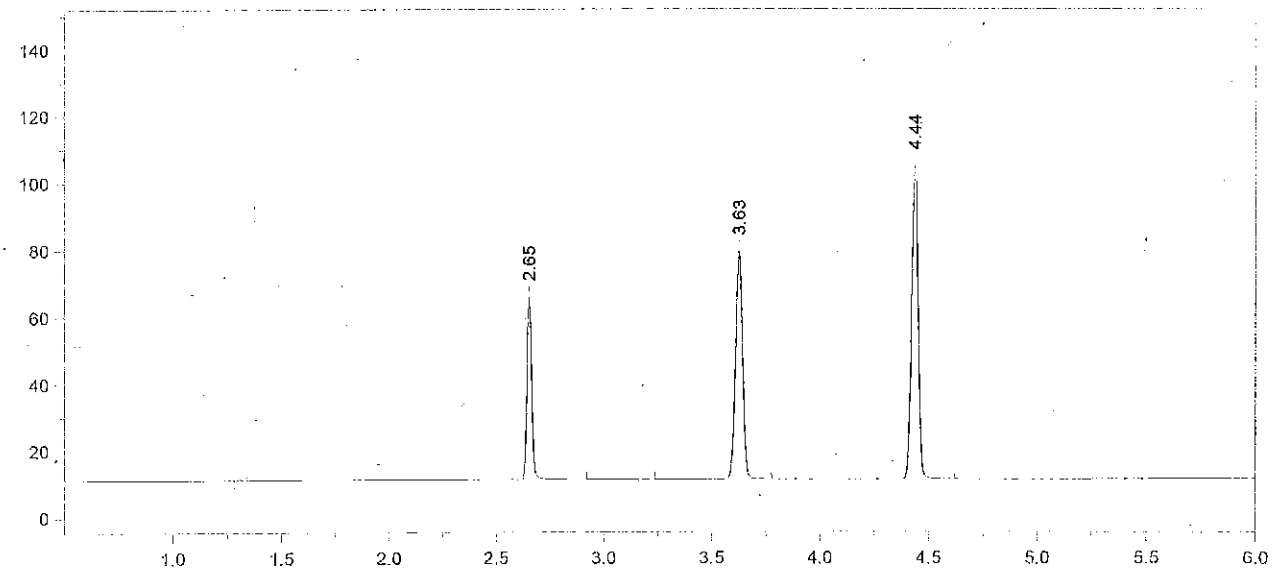
Format File Name = AlcoholVFL.FMT

Today's Date = 9/30/2013
Today's Time = 5:19:12 PM
Bound File Name = VFL09302013.0011.RAW
Sample Name = AQ QC
Date Taken = 9/30/2013 5:19:03 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	86423	0.0802
5	3.63	t-Butanol	152926	0.9571
6	4.44	n-Propanol	207598	1.0000

Avg Vials 10 + 11 = 0.079
99%
10/1/13 [illegible]

13-16-100 15 [illegible]



Format File Name = AlcoholVFL.FMT

Today's Date = 9/30/2013
Today's Time = 5:36:35 PM
Bound File Name = VFL09302013.0012.RAW
Sample Name = CCS
Date Taken = 9/30/2013 5:36:26 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	85007	0.0822
5	3.63	t-Butanol	157390	1.0267
6	4.44	n-Propanol	199173	1.0000

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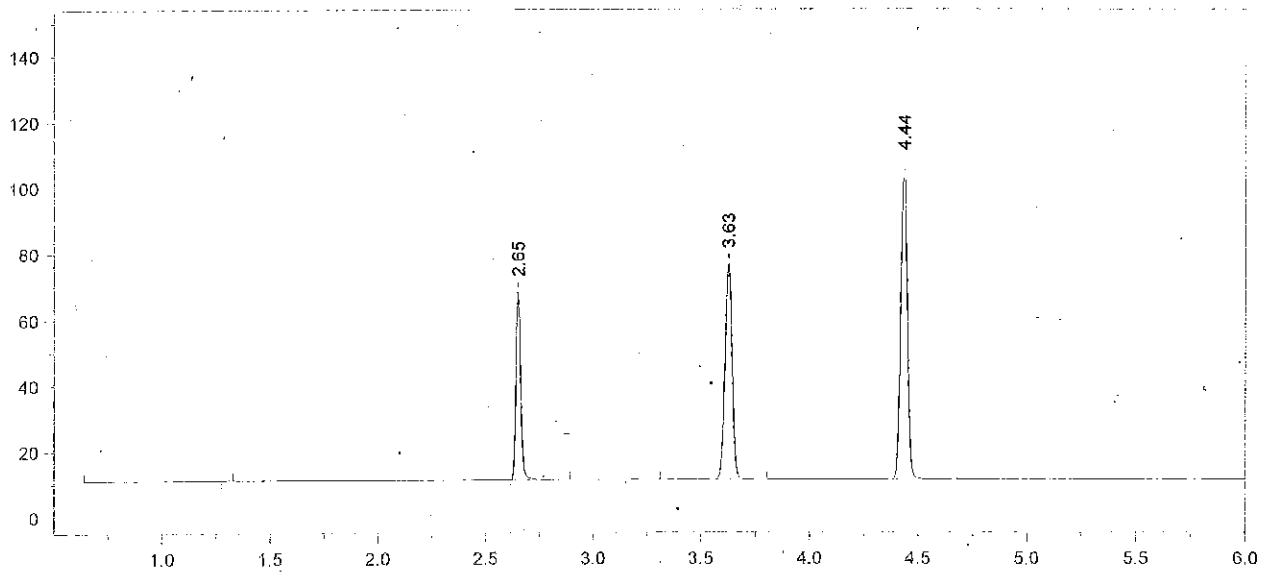


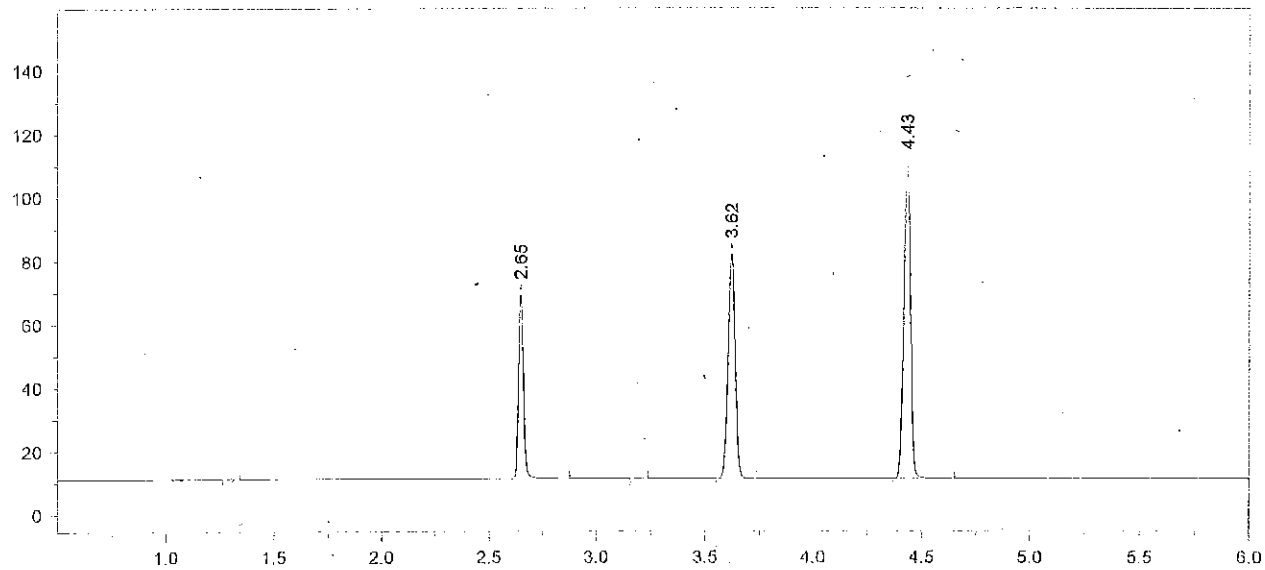
Format File Name = AlcoholVFL.FMT

Today's Date = 9/30/2013
Today's Time = 5:50:16 PM
Bound File Name = VFL09302013.0013.RAW
Sample Name = CCS
Date Taken = 9/30/2013 5:50:10 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	89137	0.0844
5	3.63	t-Butanol	151046	0.9646
6	4.44	n-Propanol	203446	1.0000

Avg vials 12 + 13 = 0.083
10/1/13
[illegible]

13-16-100 17 [illegible]

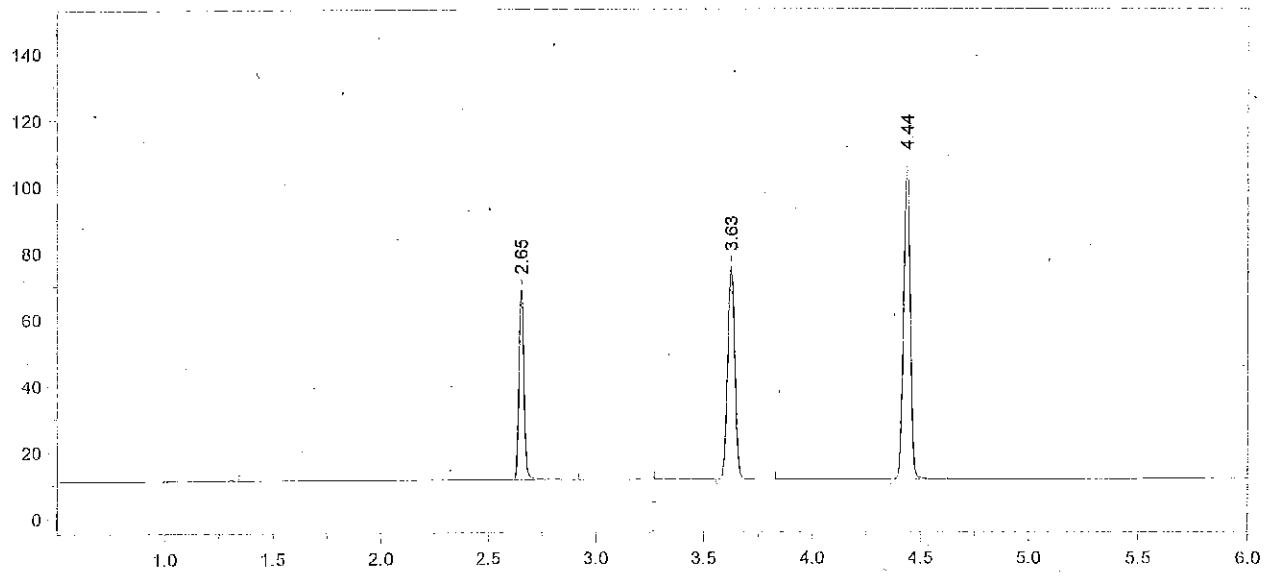


Format File Name = AlcoholVFL.FMT

Today's Date = 9/30/2013
Today's Time = 7:40:30 PM
Bound File Name = VFL09302013.0020.RAW
Sample Name = CCS
Date Taken = 9/30/2013 7:40:21 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	90222	0.0827
5	3.62	t-Butanol	163443	1.0109
6	4.43	n-Propanol	210070	1.0000

13-16-100 18



Format File Name = AlcoholVFL.FMT

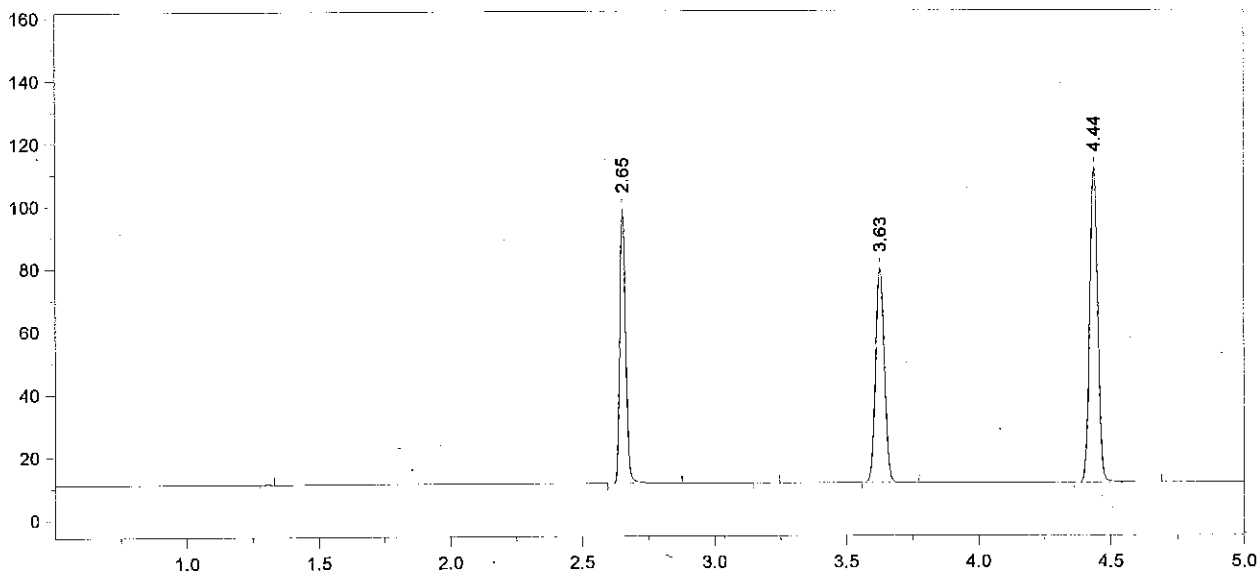
Today's Date = 9/30/2013
Today's Time = 7:56:00 PM
Bound File Name = VFL09302013.0021.RAW
Sample Name = CCS
Date Taken = 9/30/2013 7:55:54 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	89524	0.0858
5	3.63	t-Butanol	148178	0.9580
6	4.44	n-Propanol	200974	1.0000

Avg vials 20 + 21 0.084
10/1/13 dlg

13-16-100 19 dlg

Chrom Perfect Chromatogram Report

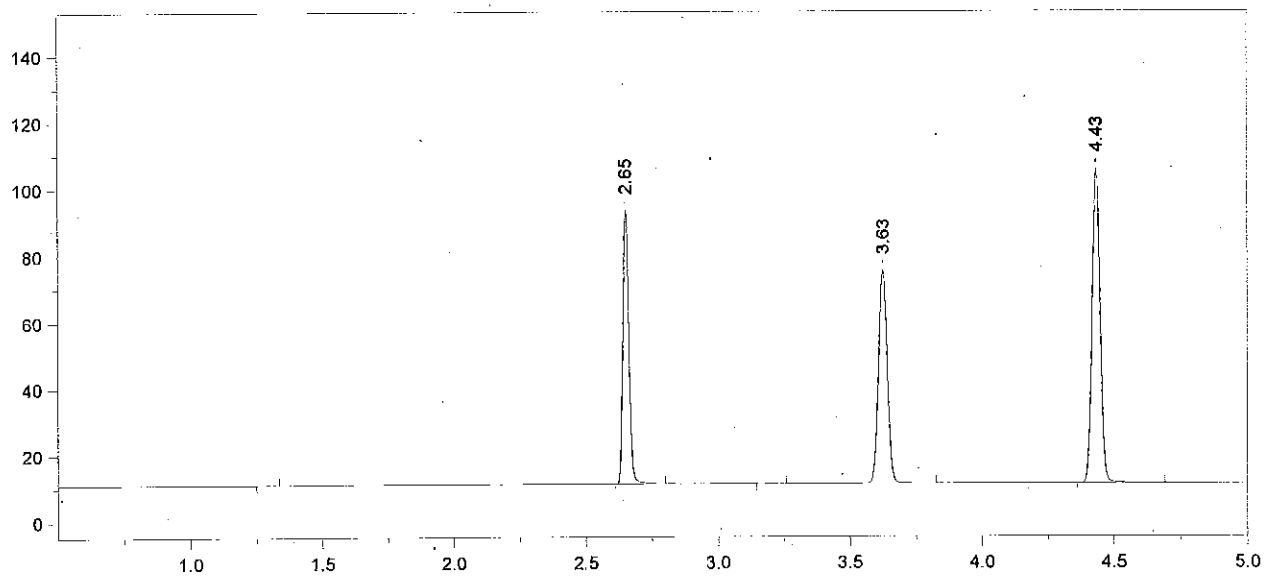


Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/30/2013
Today's Time = 8:12:03 PM
Bound File Name = VFL09302013.0022.RAW
Sample Name = 0.10 ALB
Date Taken = 9/30/2013 8:11:55 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL09302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	134793	0.1222	0.0998
5	3.63	t-Butanol	158377	0.9687	0.7906
6	4.44	n-Propanol	212432	1.0000	0.8162

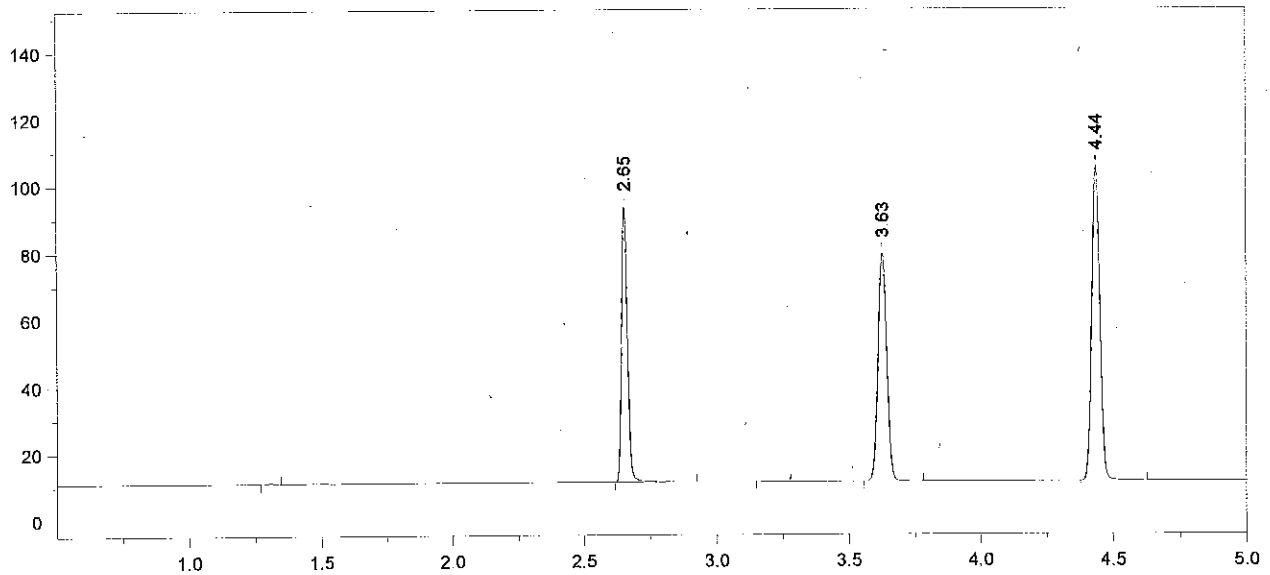
13-16-100 20 ALB



Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/30/2013
Today's Time = 8:26:27 PM
Bound File Name = VFL09302013.0023.RAW
Sample Name = 0.10 ALB
Date Taken = 9/30/2013 8:26:18 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL09302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	128063	0.1234	0.1007
5	3.63	t-Butanol	148892	0.9674	0.7896
6	4.43	n-Propanol	199979	1.0000	0.8162

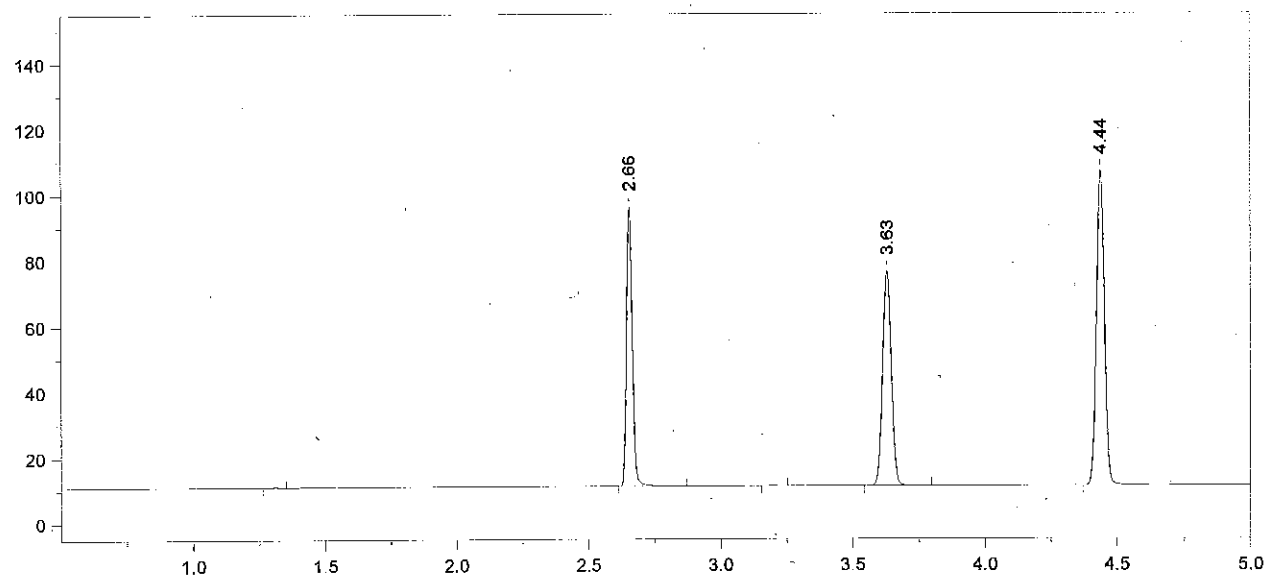


Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/30/2013
Today's Time = 8:43:30 PM
Bound File Name = VFL09302013.0024.RAW
Sample Name = 0.10 ALB
Date Taken = 9/30/2013 8:43:22 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL09302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	127294	0.1225	0.1000
5	3.63	t-Butanol	157763	1.0240	0.8358
6	4.44	n-Propanol	200171	1.0000	0.8162

13-16-100 22



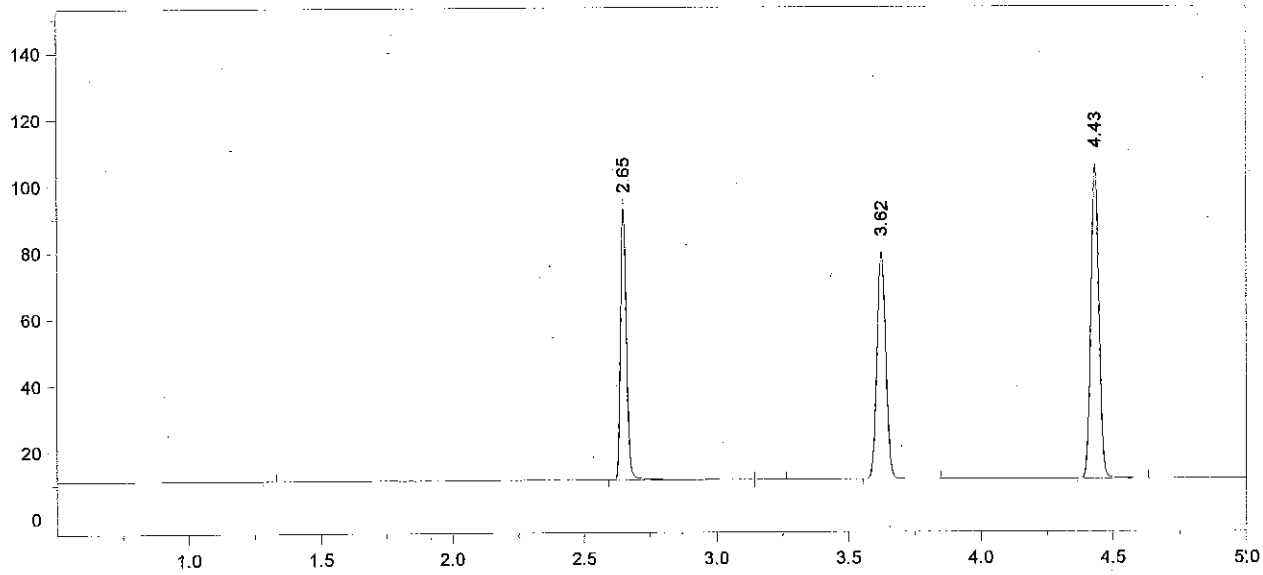
Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/30/2013
Today's Time = 8:56:45 PM
Bound File Name = VFL09302013.0025.RAW
Sample Name = 0.10 ALB
Date Taken = 9/30/2013 8:56:37 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL09302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.66	Ethanol	131786	0.1247	0.1018
5	3.63	t-Butanol	151199	0.9649	0.7875
6	4.44	n-Propanol	203606	1.0000	0.8162

13-16-100 7.3 AB

Chrom Perfect Chromatogram Report

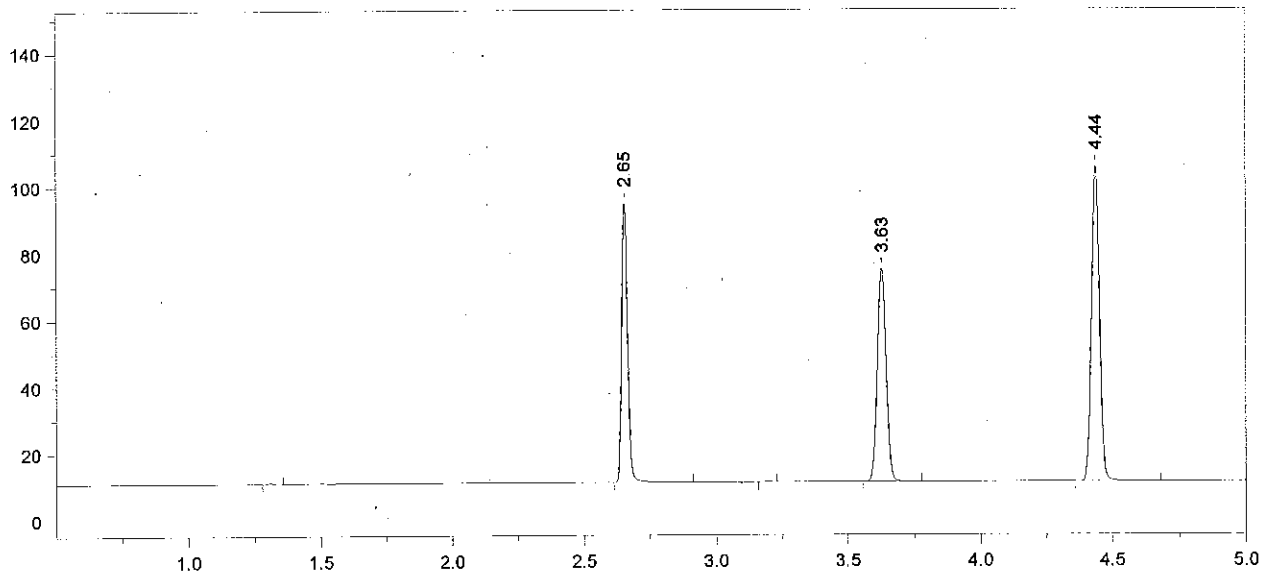


Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/30/2013
Today's Time = 9:14:55 PM
Bound File Name = VFL09302013.0026.RAW
Sample Name = 0.10 ALB
Date Taken = 9/30/2013 9:14:47 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL09302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion	
3	2.65	Ethanol	126578	0.1220	0.0996	XP
5	3.62	t-Butanol	158167	1.0282	0.8392	
6	4.43	n-Propanol	199877	1.0000	0.8162	

13-16-100 24 AB



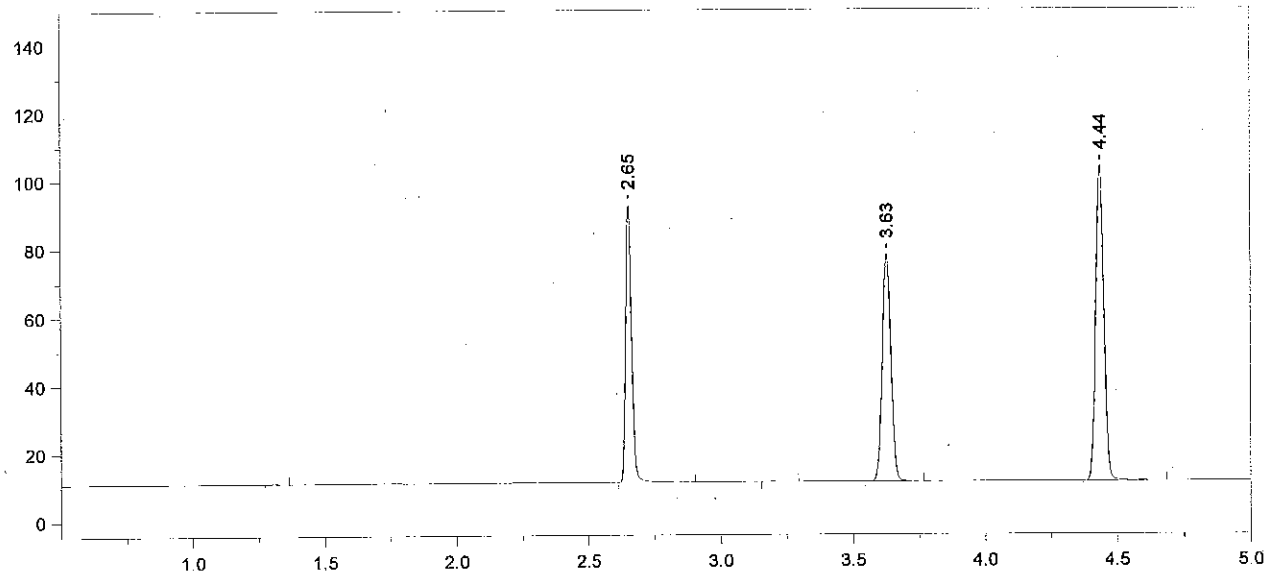
Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/30/2013
Today's Time = 9:28:40 PM
Bound File Name = VFL09302013.0027.RAW
Sample Name = 0.10 ALB
Date Taken = 9/30/2013 9:28:34 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL09302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	129713	0.1251	0.1021
5	3.63	t-Butanol	148092	0.9631	0.7861
6	4.44	n-Propanol	199787	1.0000	0.8162

13-16-100 25 AeB

Chrom Perfect Chromatogram Report

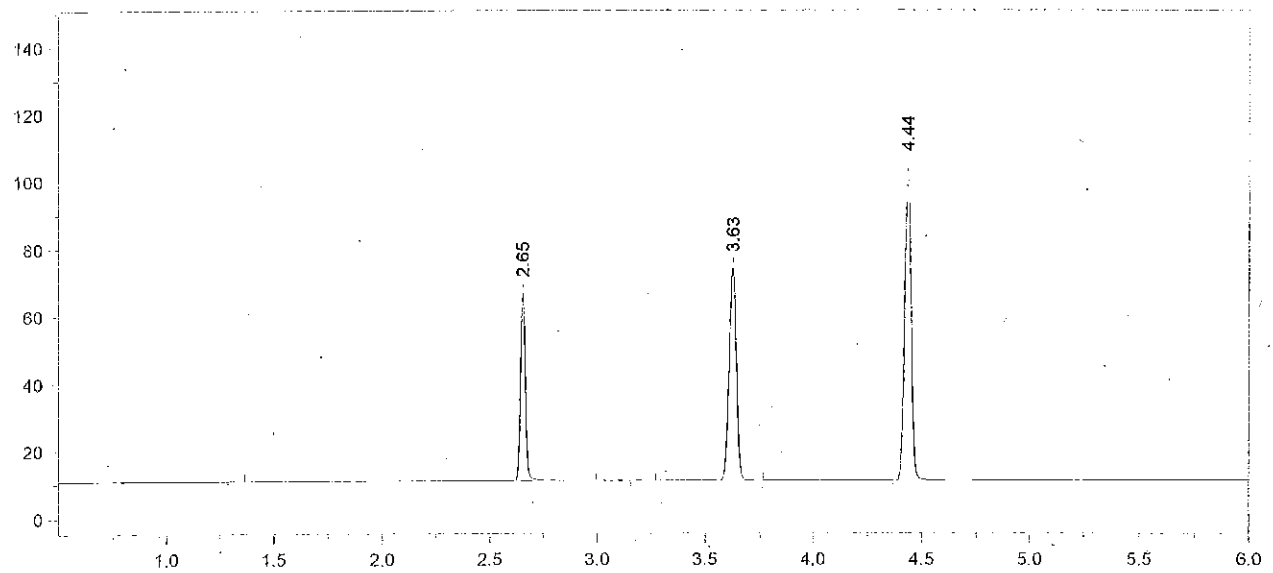


Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/30/2013
Today's Time = 9:46:22 PM
Bound File Name = VFL09302013.0028.RAW
Sample Name = 0.10 ALB
Date Taken = 9/30/2013 9:46:13 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL09302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	125980	0.1228	0.1002
5	3.63	t-Butanol	154454	1.0154	0.8288
6	4.44	n-Propanol	197641	1.0000	0.8162

13-14-100 26 RCB



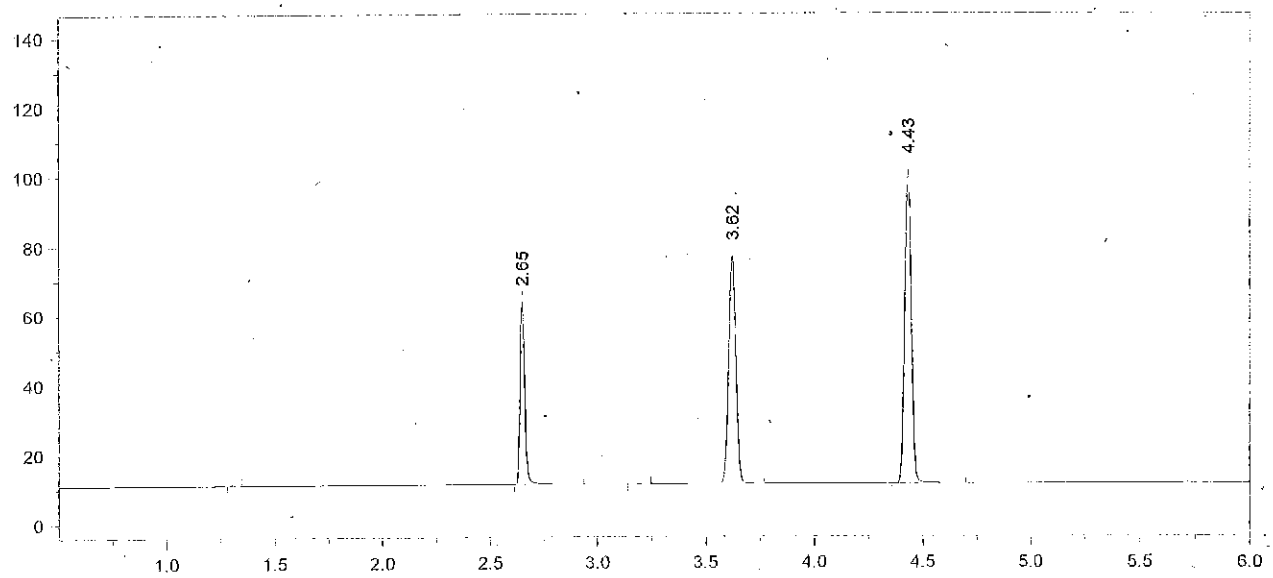
Format File Name = AlcoholVFL.FMT

Today's Date = 9/30/2013
Today's Time = 9:59:33 PM
Bound File Name = VFL09302013.0029.RAW
Sample Name = CCS
Date Taken = 9/30/2013 9:59:26 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	87027	0.0846
5	3.63	t-Butanol	146258	0.9588
6	4.44	n-Propanol	198194	1.0000

13-16-100 27 AB

Chrom Perfect Chromatogram Report



Format File Name = AlcoholVFL.FMT

Today's Date = 9/30/2013
Today's Time = 10:17:43 PM
Bound File Name = VFL09302013.0030.RAW
Sample Name =.CCS
Date Taken = 9/30/2013 10:17:38 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09302013.CAL
Calibration Version = 7

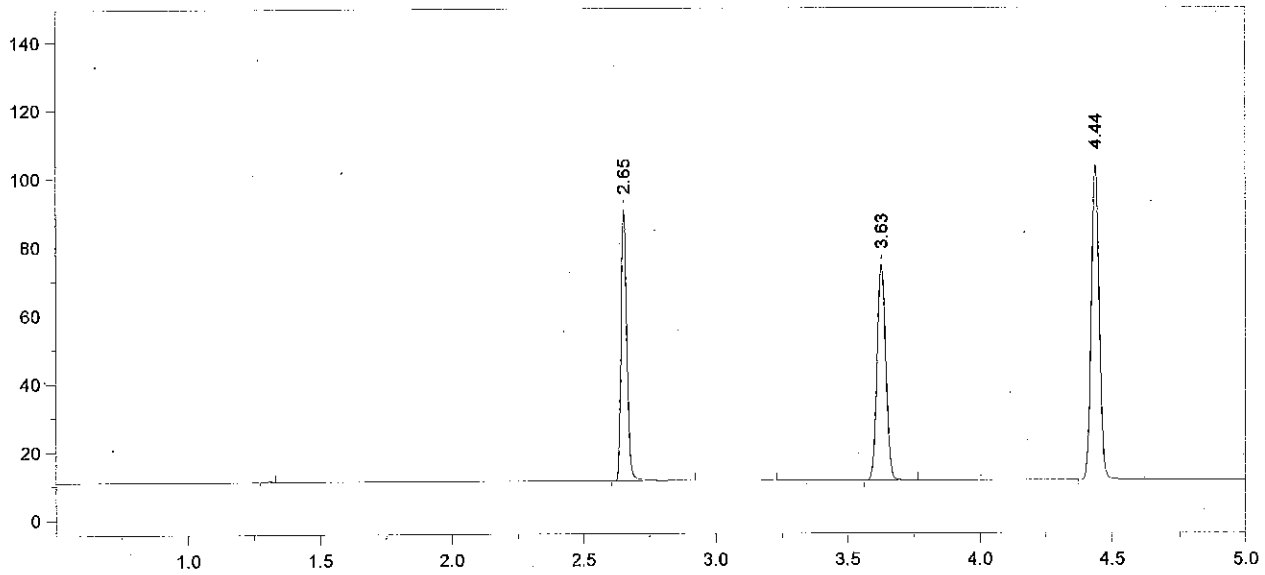
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	82141	0.0823
5	3.62	t-Butanol	151529	1.0236
6	4.43	n-Propanol	192348	1.0000

Avg vals 29 + 30 = 0.083

10/1/13

Printed on 9/30/2013 10:17:43 PM

13-116-100 28

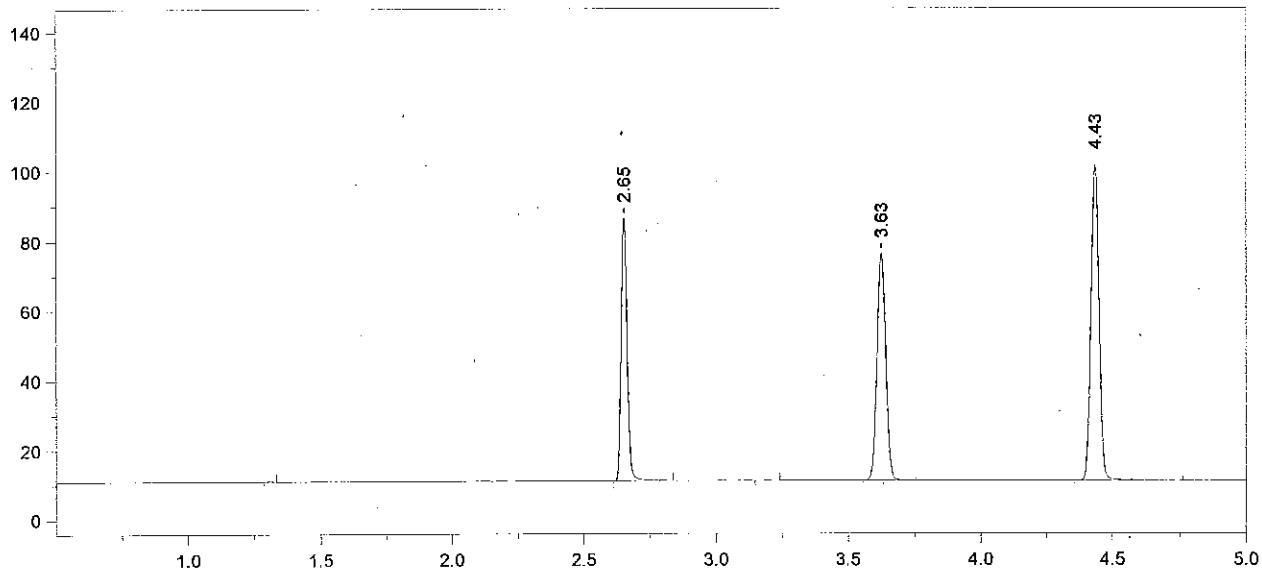


Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/30/2013
Today's Time = 10:31:00 PM
Bound File Name = VFL09302013.0031.RAW
Sample Name = 0.10 RLM
Date Taken = 9/30/2013 10:30:55 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL09302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	123137	0.1215	0.0991
5	3.63	t-Butanol	146241	0.9728	0.7940
6	4.44	n-Propanol	195317	1.0000	0.8162

13-116-100 29 ALB

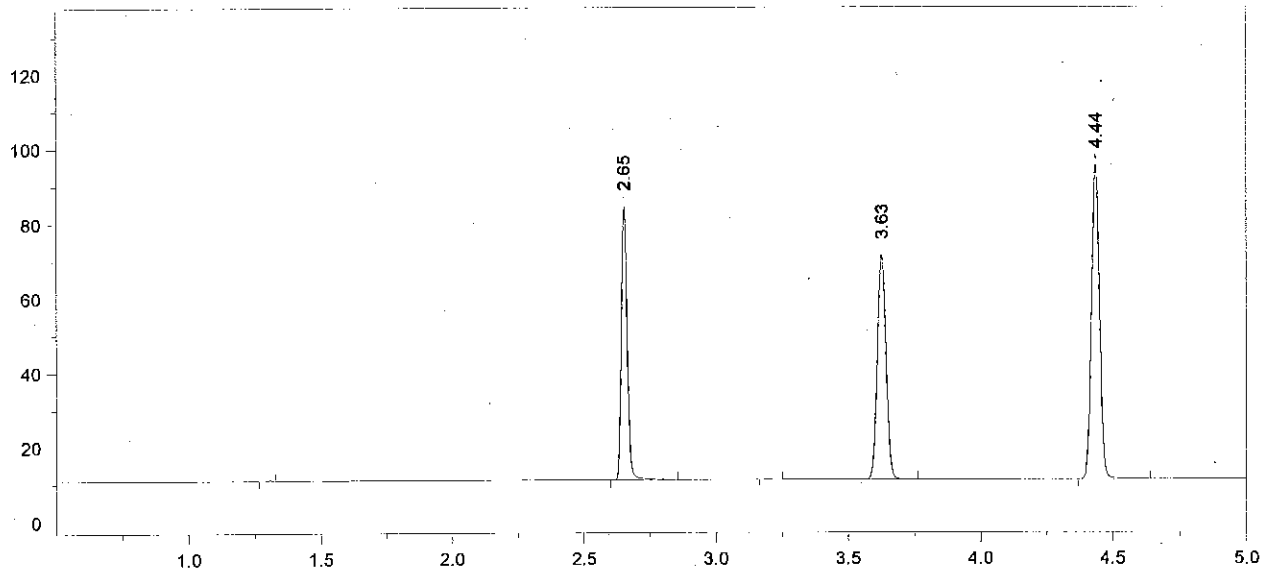


Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/30/2013
Today's Time = 10:49:11 PM
Bound File Name = VFL09302013.0032.RAW
Sample Name = 0.10 RLM
Date Taken = 9/30/2013 10:49:07 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL09302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	117649	0.1181	0.0964
5	3.63	t-Butanol	150966	1.0217	0.8339
6	4.43	n-Propanol	191989	1.0000	0.8162

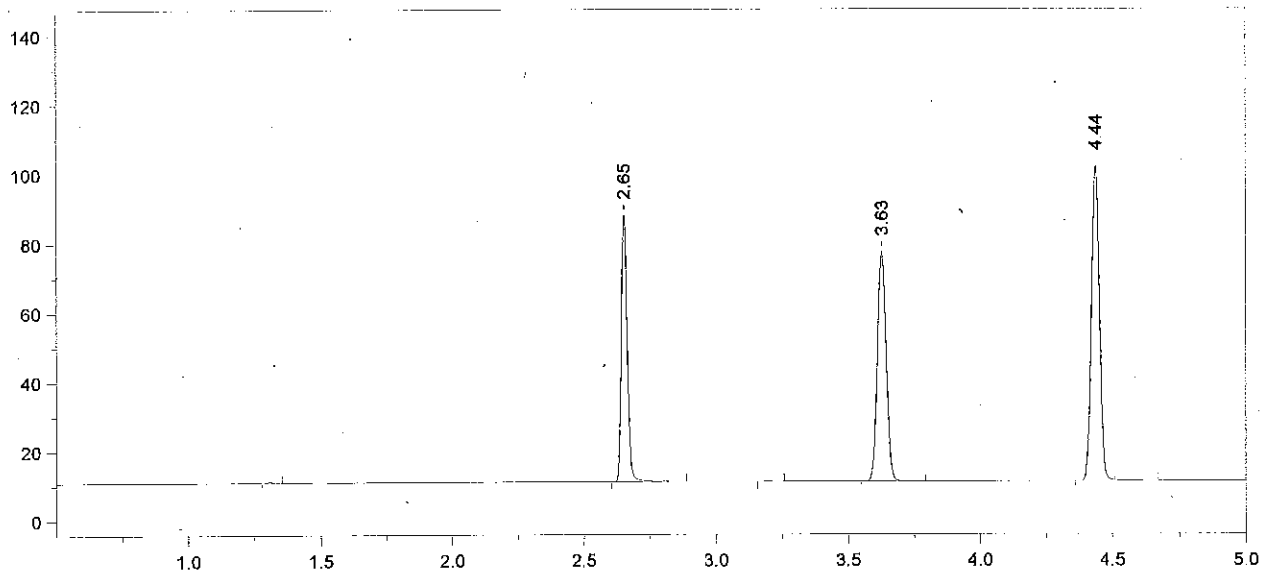
13-16-100 30 AB



Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/30/2013
Today's Time = 11:04:05 PM
Bound File Name = VFL09302013.0033.RAW
Sample Name = 0.10 RLM
Date Taken = 9/30/2013 11:03:58 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL09302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	113128	0.1214	0.0991
5	3.63	t-Butanol	139319	1.0080	0.8227
6	4.44	n-Propanol	179580	1.0000	0.8162

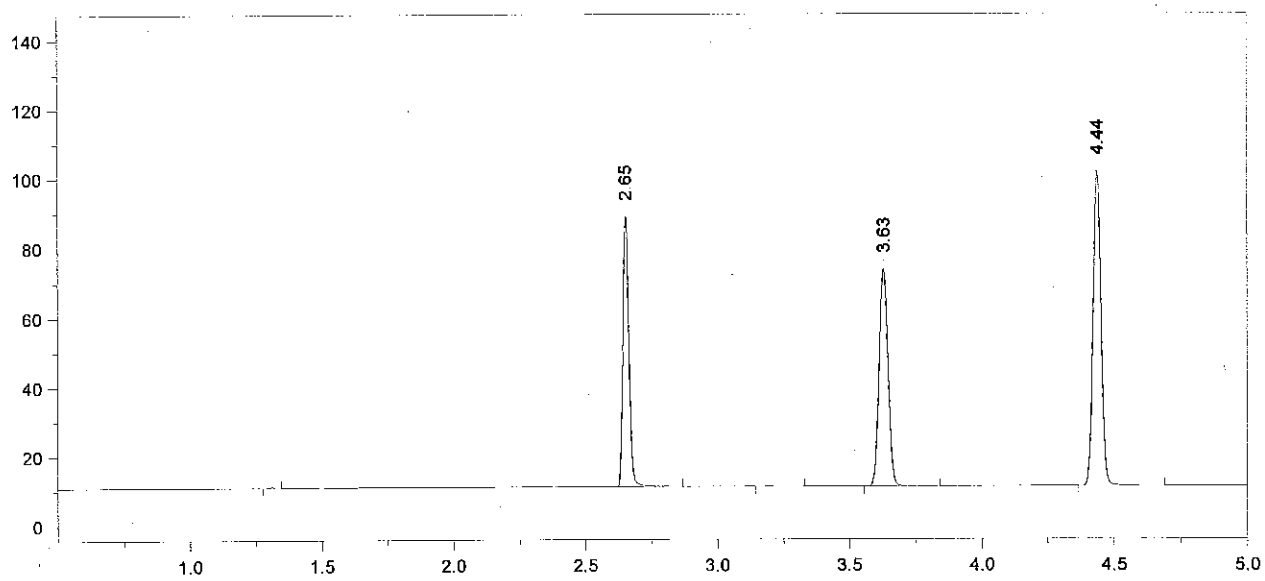


Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/30/2013
Today's Time = 11:20:38 PM
Bound File Name = VFL09302013.0034.RAW
Sample Name = 0.10 RLM
Date Taken = 9/30/2013 11:20:34 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL09302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	119222	0.1183	0.0966
5	3.63	t-Butanol	153073	1.0247	0.8364
6	4.44	n-Propanol	194085	1.0000	0.8162

13-16-100 32 AJB



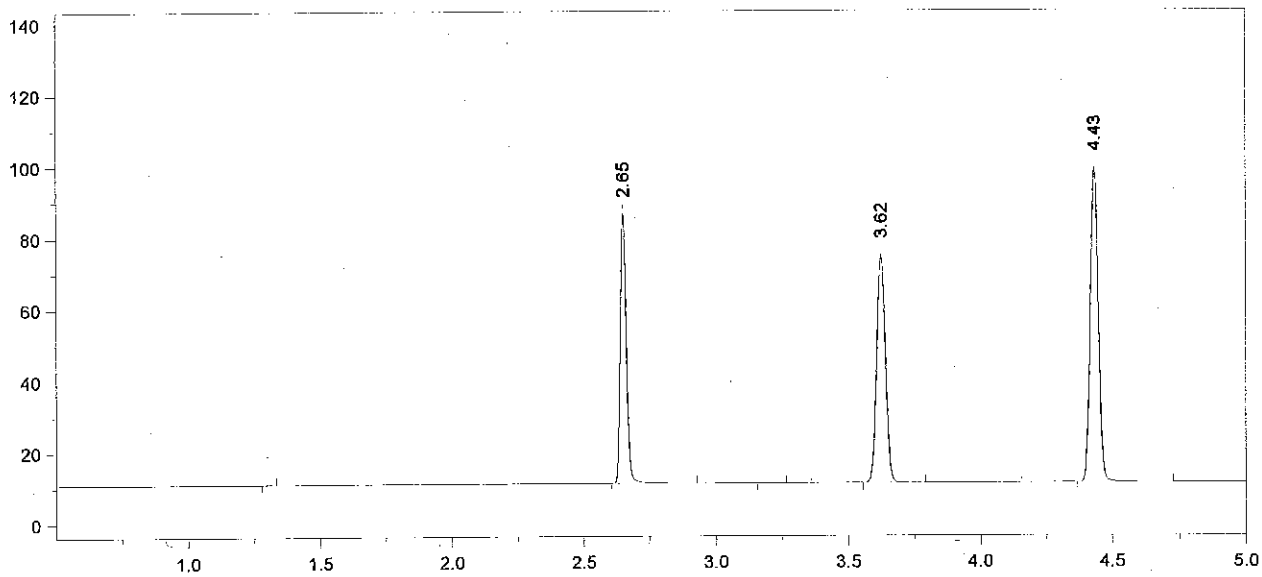
Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/30/2013
Today's Time = 11:34:38 PM
Bound File Name = VFL09302013.0035.RAW
Sample Name = 0.10 RLM
Date Taken = 9/30/2013 11:34:34 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL09302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	121967	0.1216	0.0992
5	3.63	t-Butanol	145278	0.9768	0.7973
6	4.44	n-Propanol	193240	1.0000	0.8162

13-14-(02) 33 A.B

Chrom Perfect Chromatogram Report

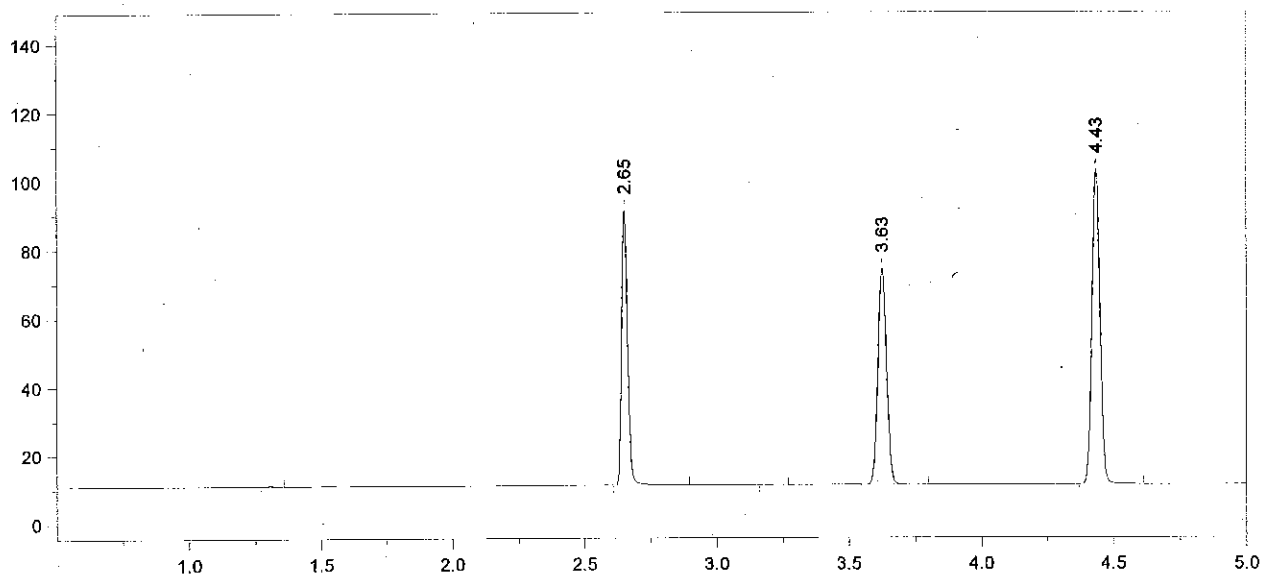


Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/30/2013
Today's Time = 11:50:33 PM
Bound File Name = VFL09302013.0036.RAW
Sample Name = 0.10 RLM
Date Taken = 9/30/2013 11:50:28 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL09302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	117291	0.1206	0.0984
5	3.62	t-Butanol	148113	1.0272	0.8384
6	4.43	n-Propanol	187343	1.0000	0.8162

Chrom Perfect Chromatogram Report

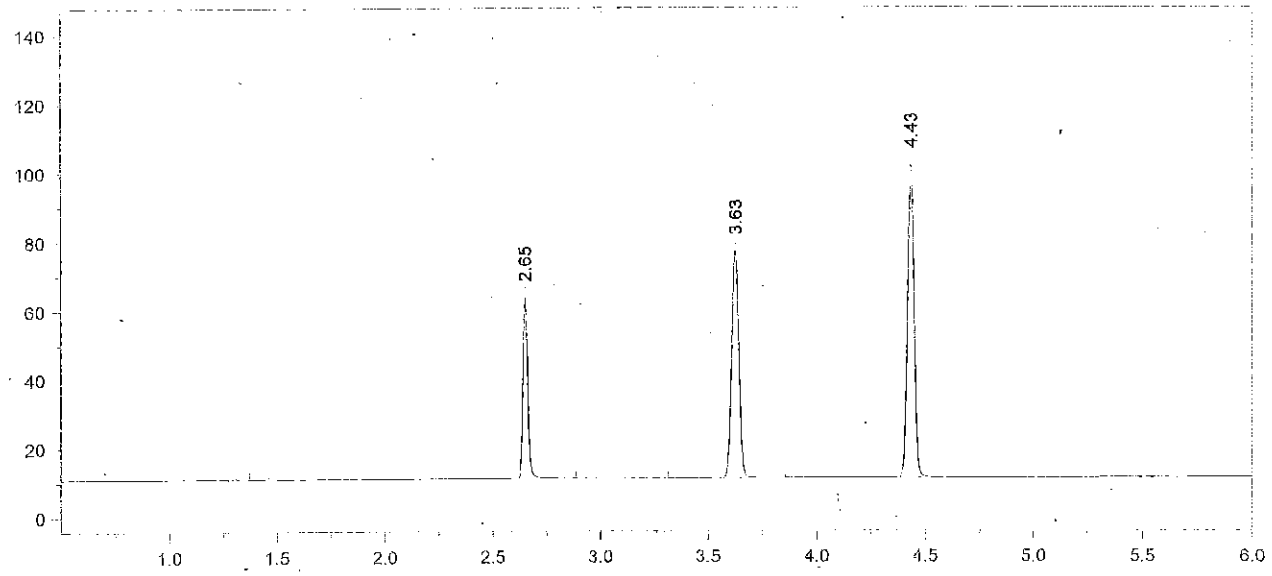


Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/1/2013
Today's Time = 12:05:57 AM
Bound File Name = VFL09302013.0037.RAW
Sample Name = 0.10 RLM
Date Taken = 10/1/2013 12:05:49 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL09302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	124466	0.1225	0.1000
5	3.63	t-Butanol	145491	0.9660	0.7885
6	4.43	n-Propanol	195687	1.0000	0.8162

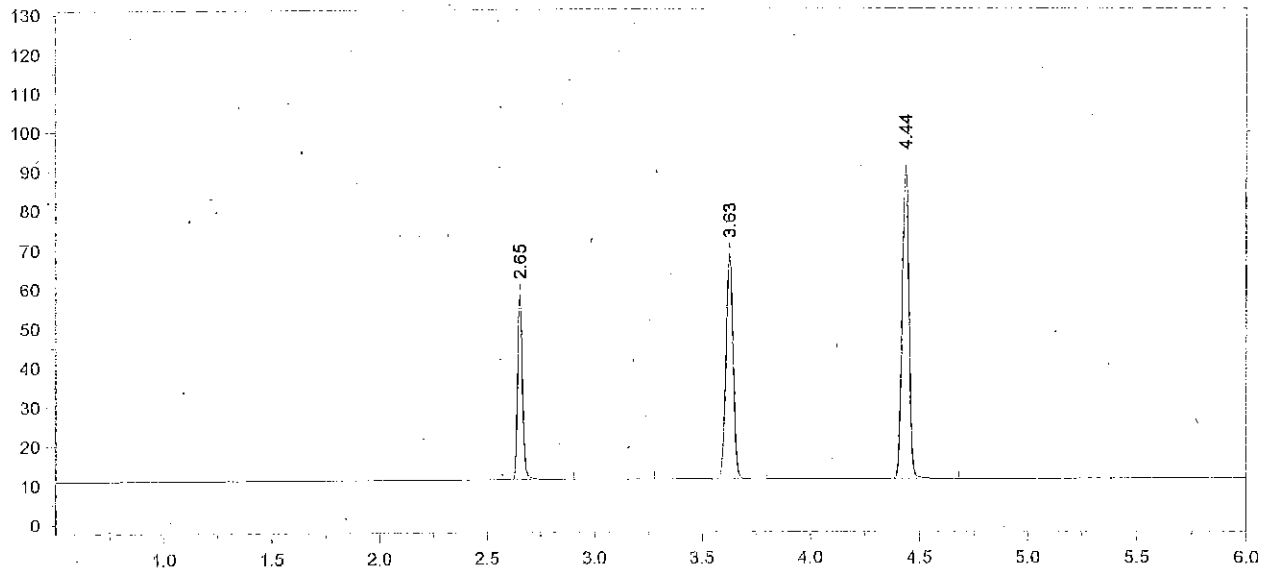
13-16-100 35 A/B



Format File Name = AlcoholVFL.FMT

Today's Date = 10/1/2013
Today's Time = 12:22:00 AM
Bound File Name = VFL09302013.0038.RAW
Sample Name = CCS
Date Taken = 10/1/2013 12:21:55 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	82689	0.0825
5	3.63	t-Butanol	152973	1.0297
6	4.43	n-Propanol	193025	1.0000



Format File Name = AlcoholVFL.FMT

Today's Date = 10/1/2013
Today's Time = 12:36:23 AM
Bound File Name = VFL09302013.0039.RAW
Sample Name = CCS
Date Taken = 10/1/2013 12:36:18 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	73732	0.0834
5	3.63	t-Butanol	132693	1.0119
6	4.44	n-Propanol	170381	1.0000

Avg vials 38 + 39 = 0.083
10/1/13

Headspace Alcohol Analysis Standards Coversheet

10/14/2013

Analyst: DLB Date: 10/10/13

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	3.63		
		n-propanol	4.43		
3	Standard A		0.006	Y N	
4	Standard B		0.024	Y N	
5	Standard C		0.082	Y N	
6	Standard D		0.200	Y N	
7	Standard E		0.411	Y N	
8 10	Aqueous QC		0.0807	Y N	
9 11	Aqueous QC		0.0804	Y N	Avg = 0.080 100%

DLB 10/11/13

13-16-100 3 8 DLB

File Name = C:\Alcohol Data\VFL10102013\VFL10102013.SEQ
Version = 1
File Date = 10/10/2013 3:16:51 PM

Entry #	Raw File Name	Method File Name	Sample Name	Sample Wt.	Int. Std. Amount
1	VFL10102013.0001.raw	Blood Alc temp VFL.MET	Blank	1.00	1.00
2	VFL10102013.0002.raw	Blood Alc temp VFL.MET	TMX	1.00	1.00
3	VFL10102013.0003.raw	Blood Alc temp VFL.MET	STD A	1.00	1.00
4	VFL10102013.0004.raw	Blood Alc temp VFL.MET	STD B	1.00	1.00
5	VFL10102013.0005.raw	Blood Alc temp VFL.MET	STD C	1.00	1.00
6	VFL10102013.0006.raw	Blood Alc temp VFL.MET	STD D	1.00	1.00
7	VFL10102013.0007.raw	Blood Alc temp VFL.MET	STD E	1.00	1.00
8	VFL10102013.0008.raw	Blood Alc temp VFL.MET	WB	1.00	1.00
9	VFL10102013.0009.raw	Blood Alc temp VFL.MET	WB	1.00	1.00
10	VFL10102013.0010.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
11	VFL10102013.0011.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
12	VFL10102013.0012.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
13	VFL10102013.0013.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
14	VFL10102013.0014.raw	Blood Alc temp VFL.MET	V13-2124 A1-1	1.00	1.00
15	VFL10102013.0015.raw	Blood Alc temp VFL.MET	V13-2124 A1-1	1.00	1.00
16	VFL10102013.0016.raw	Blood Alc temp VFL.MET	V13-2125 A1-1	1.00	1.00
17	VFL10102013.0017.raw	Blood Alc temp VFL.MET	V13-2125 A1-1	1.00	1.00
18	VFL10102013.0018.raw	Blood Alc temp VFL.MET	V13-2135 A1-1	1.00	1.00
19	VFL10102013.0019.raw	Blood Alc temp VFL.MET	V13-2135 A1-1	1.00	1.00
20	VFL10102013.0020.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
21	VFL10102013.0021.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
22	VFL10102013.0022.raw	simsoln.met	0.1 ALB	1.00	1.00
23	VFL10102013.0023.raw	simsoln.met	0.1 ALB	1.00	1.00
24	VFL10102013.0024.raw	simsoln.met	0.1 ALB	1.00	1.00
25	VFL10102013.0025.raw	simsoln.met	0.1 ALB	1.00	1.00
26	VFL10102013.0026.raw	simsoln.met	0.1 ALB	1.00	1.00
27	VFL10102013.0027.raw	simsoln.met	0.1 ALB	1.00	1.00
28	VFL10102013.0028.raw	simsoln.met	0.1 ALB	1.00	1.00
29	VFL10102013.0029.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
30	VFL10102013.0030.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
31	VFL10102013.0031.raw	simsoln.met	0.1 RLM	1.00	1.00
32	VFL10102013.0032.raw	simsoln.met	0.1 RLM	1.00	1.00
33	VFL10102013.0033.raw	simsoln.met	0.1 RLM	1.00	1.00
34	VFL10102013.0034.raw	simsoln.met	0.1 RLM	1.00	1.00
35	VFL10102013.0035.raw	simsoln.met	0.1 RLM	1.00	1.00
36	VFL10102013.0036.raw	simsoln.met	0.1 RLM	1.00	1.00
37	VFL10102013.0037.raw	simsoln.met	0.1 RLM	1.00	1.00
38	VFL10102013.0038.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
39	VFL10102013.0039.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00

Case samples not included 10/11/13 [illegible]

13-16-100 39 [illegible]

File Name: C:\Methods\VFL10102013.CAL
Version: 7

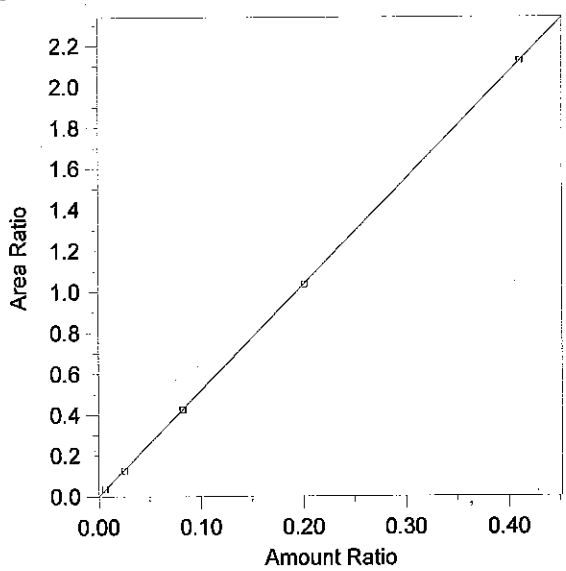
Creator:
Description:
Reason for change:

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: 2.654 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

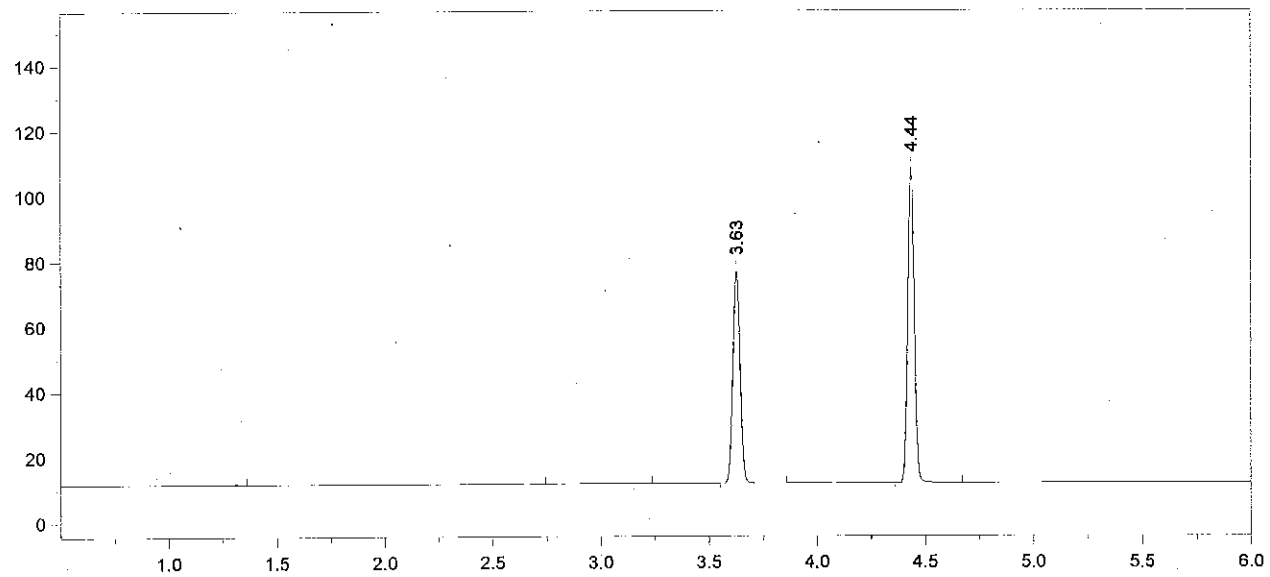
Single peak quantification by area

Y = 5.164253 X + 0

Linear fit with equal weighting, forced to origin
Coefficient of determination: 0.9999856
Average error: 1.596%
Average CF: 5.173899
RSD: 2.627%

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	6971.665	1106614	4.248	0.0063	3.391676E-02	C:\Alcohol Data\VFL10102013\VFL10102013.0003.BND	10/10/2013 4:44:12 PM
3	0.0254	25677.96	1010943	-3.104	0.0254	0.1271001	C:\Alcohol Data\VFL10102013\VFL10102013.0004.BND	10/10/2013 4:59:58 PM
4	0.0822	88231.46	1073376	0.103	0.0822	0.4249385	C:\Alcohol Data\VFL10102013\VFL10102013.0005.BND	10/10/2013 5:14:39 PM
5	0.2012	209534.4	1041424	-0.420	0.2012	1.034688	C:\Alcohol Data\VFL10102013\VFL10102013.0006.BND	10/10/2013 5:31:27 PM
6	0.4112	431208.2	1048658	0.107	0.4112	2.125817	C:\Alcohol Data\VFL10102013\VFL10102013.0007.BND	10/10/2013 5:45:12 PM

13-16-100 40 dcs

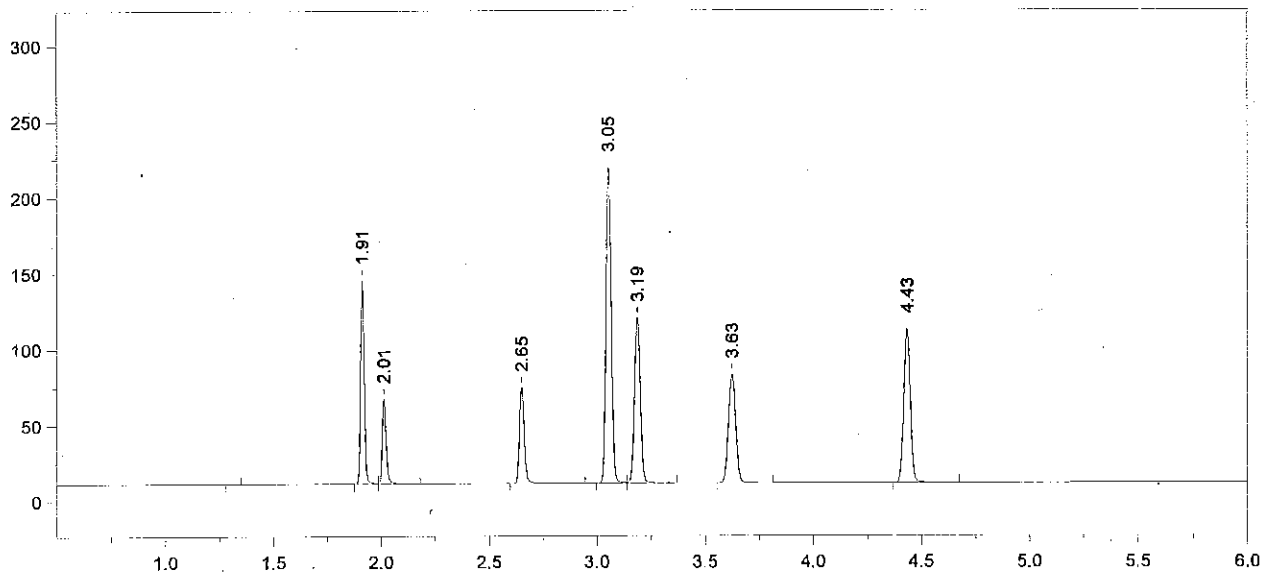


Format File Name = AlcoholVFL.FMT

Today's Date = 10/11/2013
Today's Time = 7:23:31 AM
Bound File Name = VFL10102013.0001.RAW
Sample Name = Blank
Date Taken = 10/10/2013 4:12:38 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10102013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	3.63	t-Butanol	150553	0.9649
5	4.44	n-Propanol	204295	1.0000

13-16-100 41

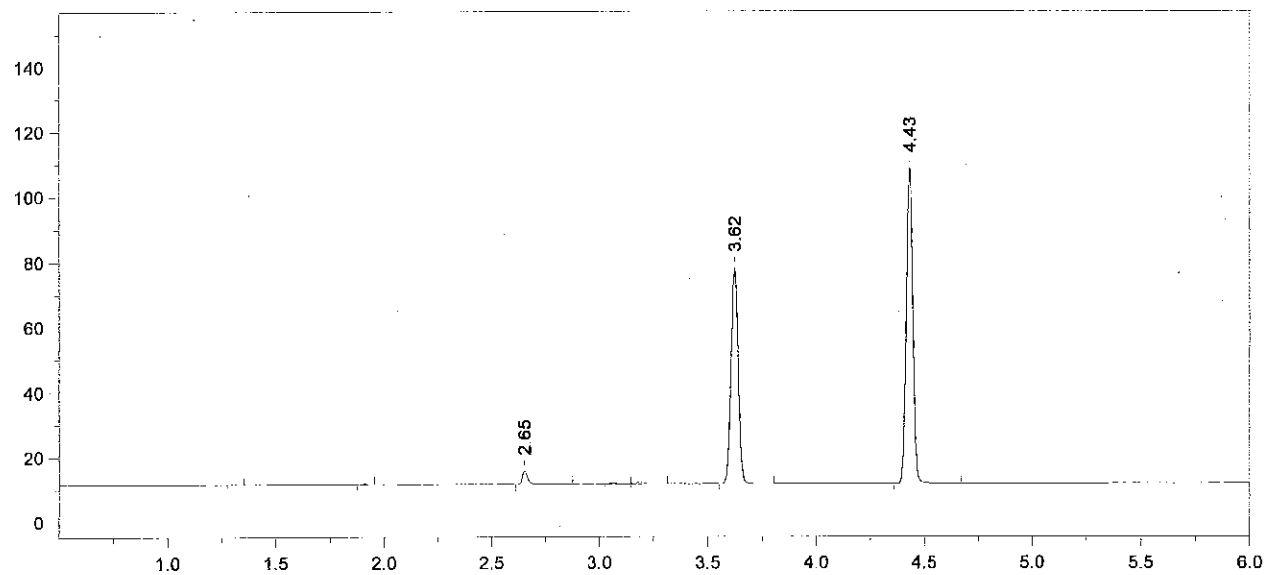


Format File Name = AlcoholVFL.FMT

Today's Date = 10/11/2013
Today's Time = 7:23:37 AM
Bound File Name = VFL10102013.0002.RAW
Sample Name = TMX
Date Taken = 10/10/2013 4:28:26 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10102013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	1.91	Acetaldehyde	156239	0.0520
3	2.01	Methanol	70528	0.1370
4	2.65	Ethanol	99321	0.0898
5	3.05	Acetone	357774	0.0940
6	3.19	Isopropanol	205229	0.0850
7	3.63	t-Butanol	165607	1.0122
8	4.43	n-Propanol	214223	1.0000

13-14-100 42 Ac B

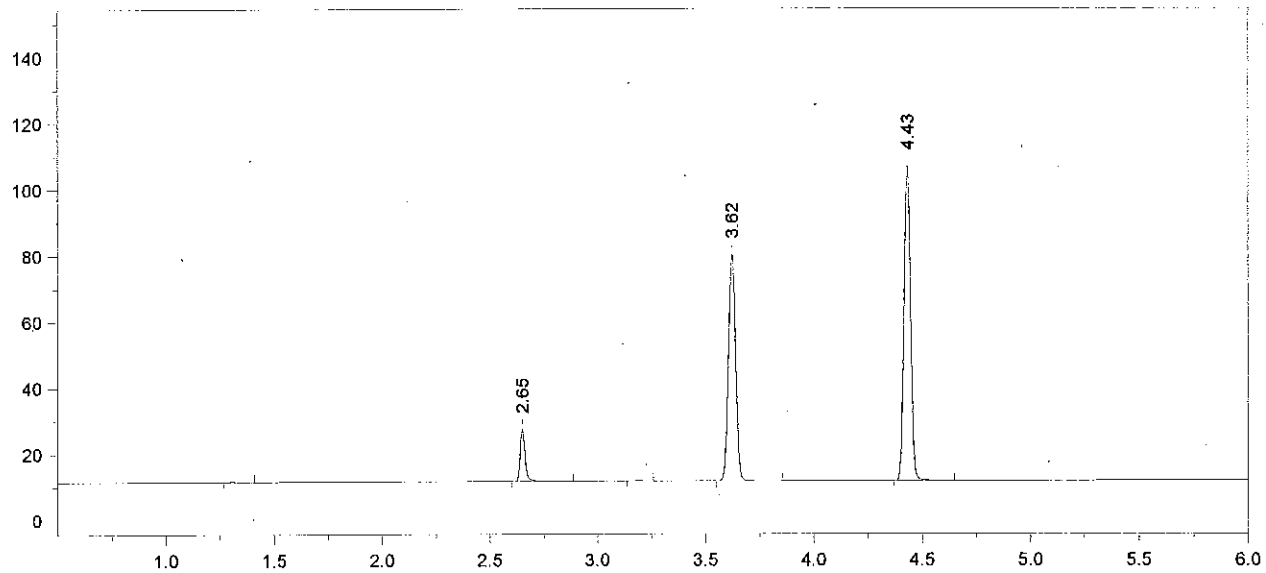


Format File Name = AlcoholVFL.FMT

Today's Date = 10/11/2013
Today's Time = 7:23:43 AM
Bound File Name = VFL10102013.0003.RAW
Sample Name = STD A
Date Taken = 10/10/2013 4:44:03 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10102013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	06972	0.0066
6	3.62	t-Butanol	153796	0.9796
7	4.43	n-Propanol	205552	1.0000

13-16-100 43

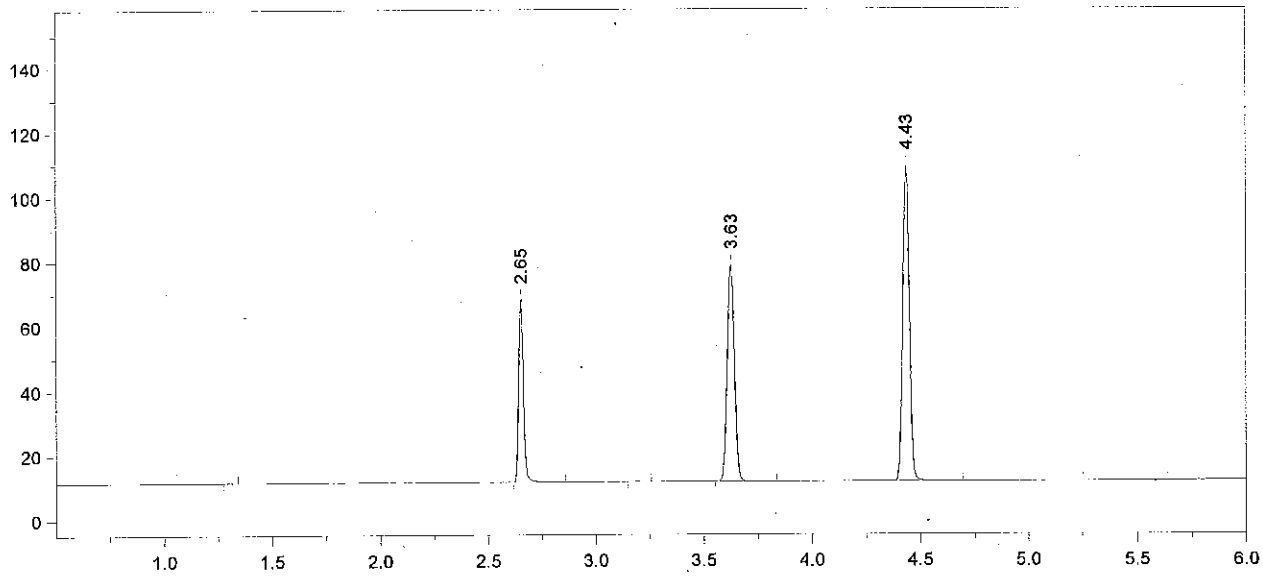


Format File Name = AlcoholVFL.FMT

Today's Date = 10/11/2013
Today's Time = 7:23:49 AM
Bound File Name = VFL10102013.0004.RAW
Sample Name = STD B
Date Taken = 10/10/2013 4:59:53 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10102013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	25678	0.0246
4	3.62	t-Butanol	158500	1.0272
5	4.43	n-Propanol	202030	1.0000

16 10/11/13
13-10-100 44 B

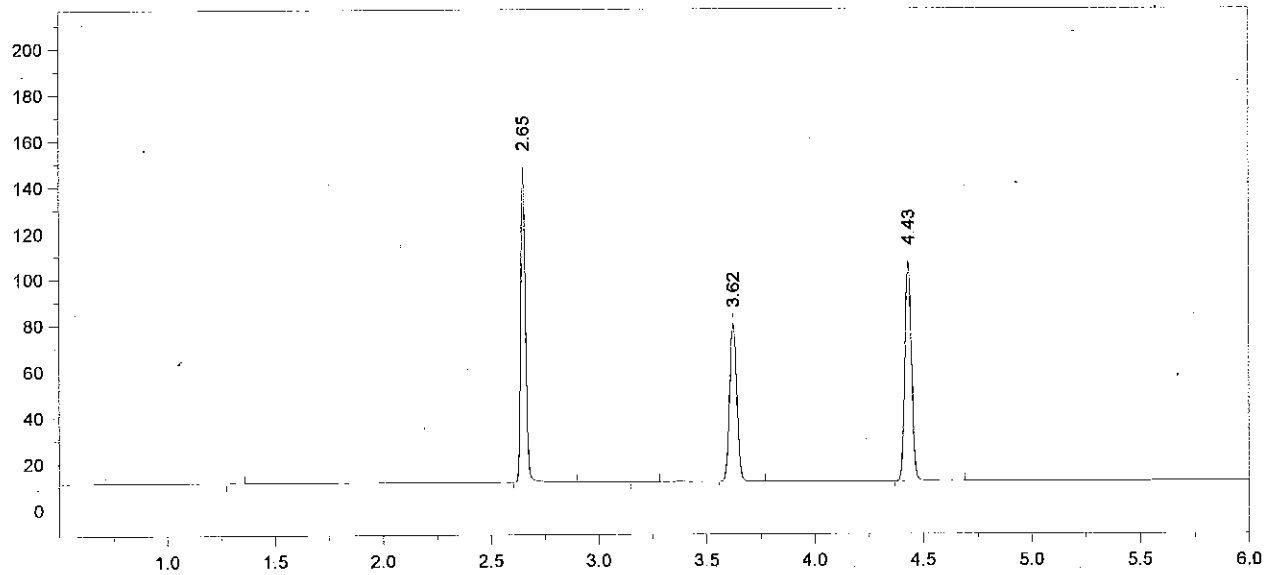


Format File Name = AlcoholVFL.FMT

Today's Date = 10/11/2013
Today's Time = 7:23:55 AM
Bound File Name = VFL10102013.0005.RAW
Sample Name = STD C
Date Taken = 10/10/2013 5:14:34 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10102013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	88231	0.0823
4	3.63	t-Butanol	154985	0.9773
5	4.43	n-Propanol	207634	1.0000

13-14-10D 45

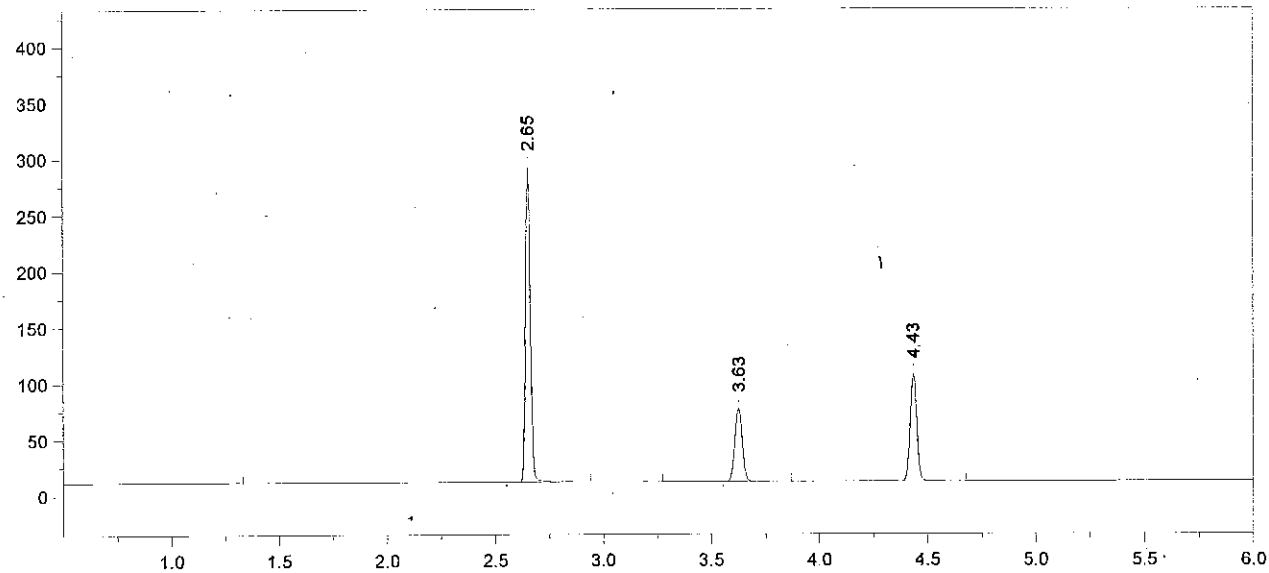


Format File Name = AlcoholVFL.FMT

Today's Date = 10/11/2013
Today's Time = 7:24:00 AM
Bound File Name = VFL10102013.0006.RAW
Sample Name = STD D
Date Taken = 10/10/2013 5:31:18 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10102013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	209534	0.2004
4	3.62	t-Butanol	158516	1.0249
5	4.43	n-Propanol	202510	1.0000

13-16-100 46 deB



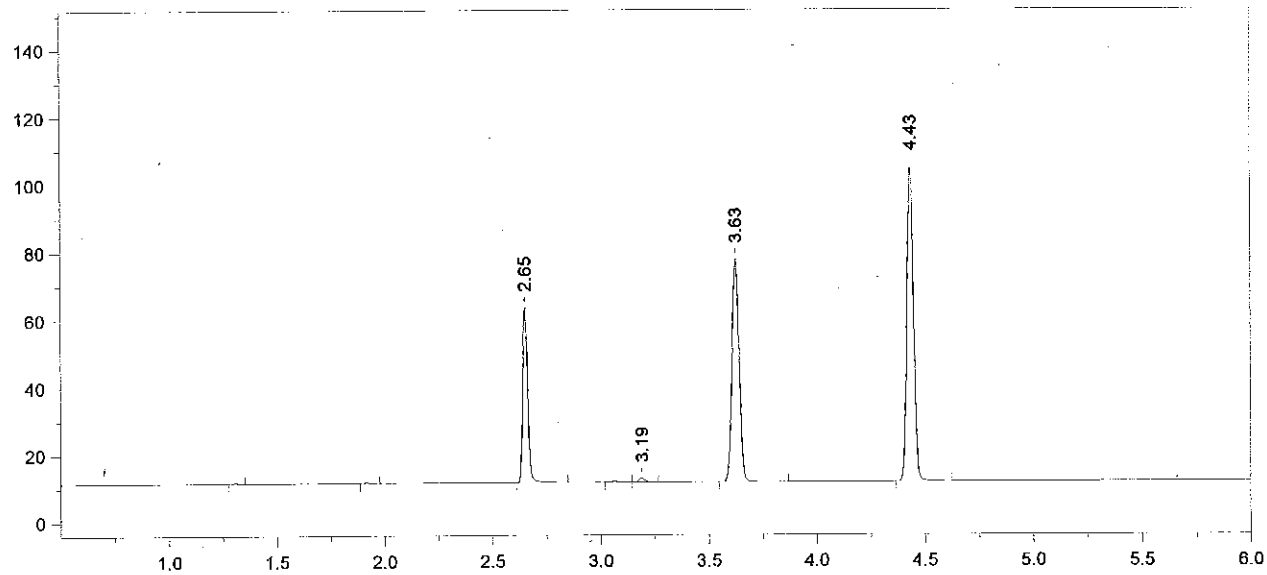
Format File Name = AlcoholVFL.FMT

Today's Date = 10/11/2013
Today's Time = 7:24:07 AM
Bound File Name = VFL10102013.0007.RAW
Sample Name = STD E
Date Taken = 10/10/2013 5:45:08 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10102013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	431208	0.4116
4	3.63	t-Butanol	151644	0.9788
5	4.43	n-Propanol	202844	1.0000

13-16-100 47 DeB

Chrom Perfect Chromatogram Report



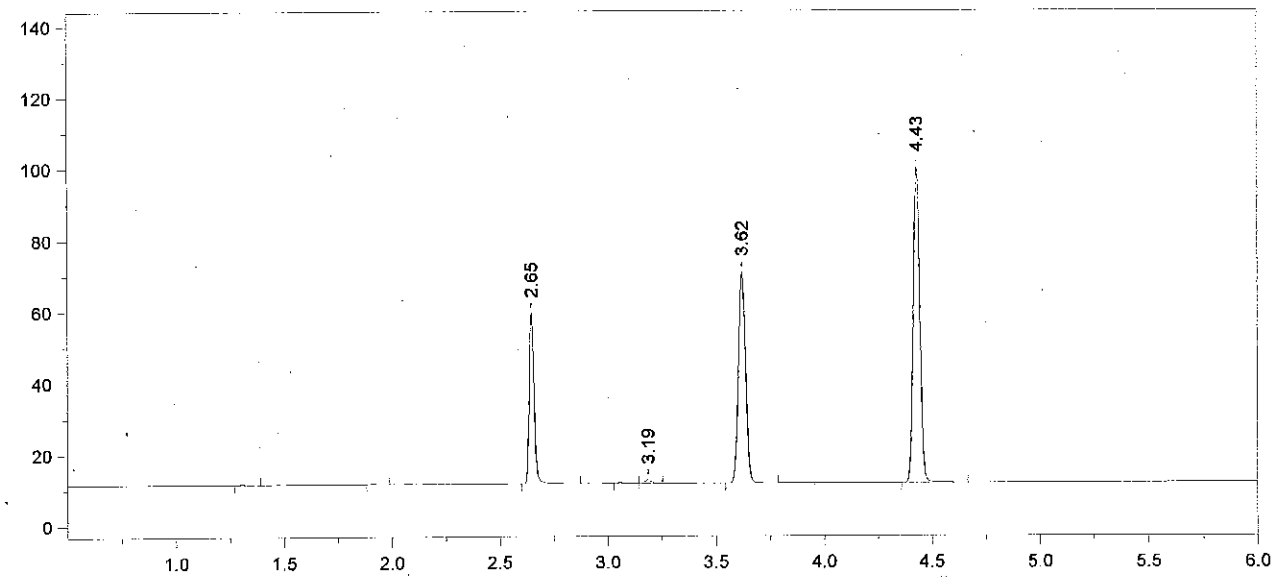
Format File Name = AlcoholVFL.FMT

Today's Date = 10/10/2013
Today's Time = 6:01:13 PM
Bound File Name = VFL10102013.0008.RAW
Sample Name = WB
Date Taken = 10/10/2013 6:01:04 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10102013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	81340	0.0798
5	3.19	Isopropanol	02164	<0.004
6	3.63	t-Butanol	153133	1.0154
7	4.43	n-Propanol	197455	1.0000

13-16-100 48 Ses

Chrom Perfect Chromatogram Report



Format File Name = AlcoholVFL.FMT

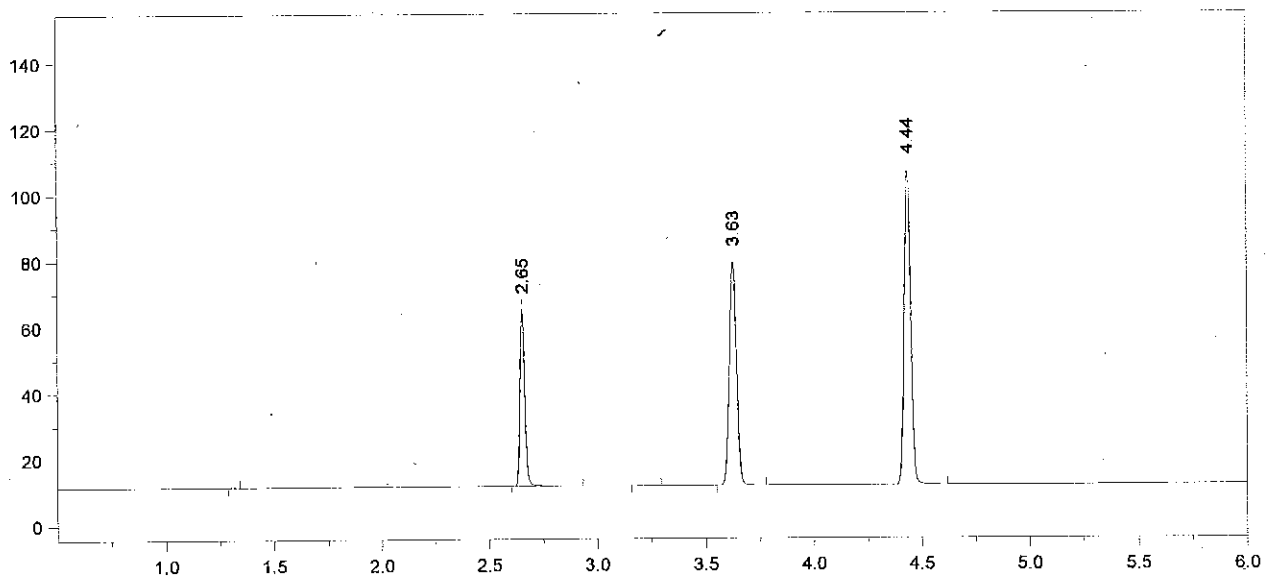
Today's Date = 10/10/2013
Today's Time = 6:17:02 PM
Bound File Name = VFL10102013.0009.RAW
Sample Name = WB
Date Taken = 10/10/2013 6:16:52 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10102013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	74958	0.0772
5	3.19	Isopropanol	01993	<0.004
6	3.62	t-Butanol	137082	0.9542
7	4.43	n-Propanol	188094	1.0000

Cliniqa WB QC
Lot # 1212090 TV = 0.077
Avg vials 8+9 = 0.078 10%
AeB
10/11/13

13-16-100 49 AeB

Chrom Perfect Chromatogram Report

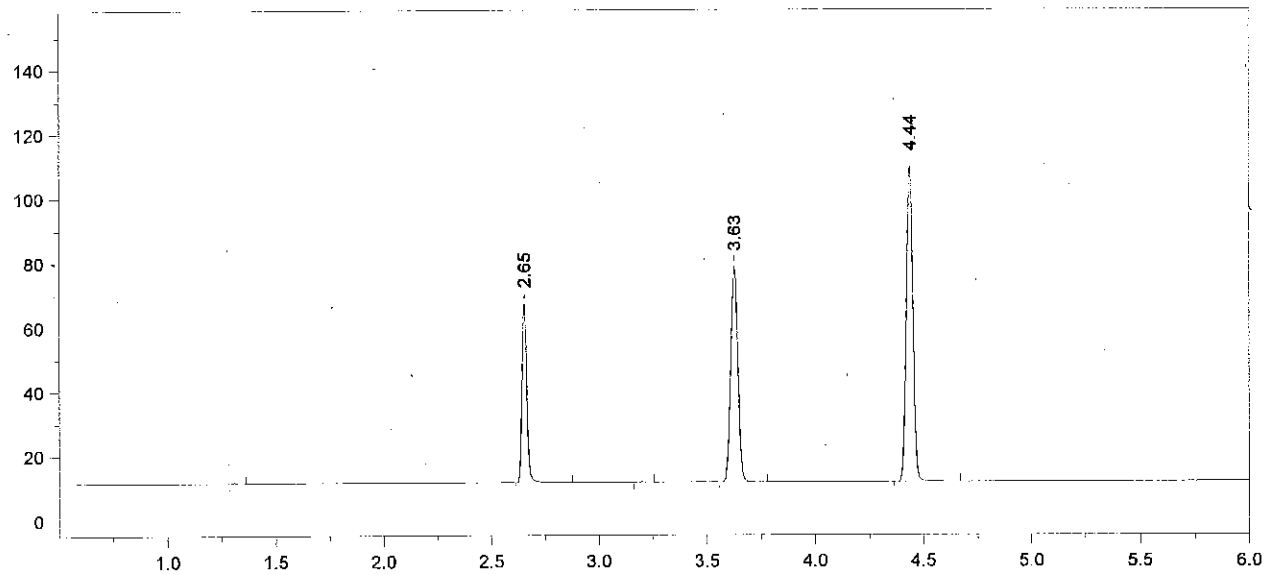


Format File Name = AlcoholVFL.FMT

Today's Date = 10/10/2013
Today's Time = 6:32:38 PM
Bound File Name = VFL10102013.0010.RAW
Sample Name = AQ QC
Date Taken = 10/10/2013 6:32:34 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10102013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	83875	0.0807
4	3.63	t-Butanol	156737	1.0192
5	4.44	n-Propanol	201357	1.0000

13-16-100 50 eub



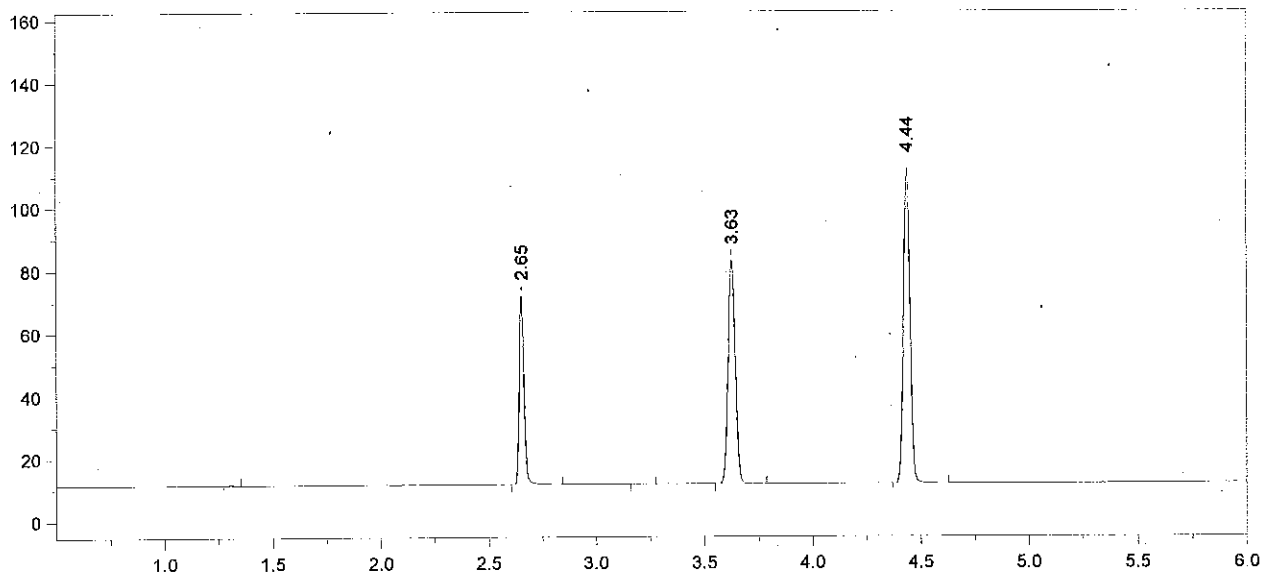
Format File Name = AlcoholVFL.FMT

Today's Date = 10/10/2013
Today's Time = 6:47:13 PM
Bound File Name = VFL10102013.0011.RAW
Sample Name = AQ QC
Date Taken = 10/10/2013 6:47:06 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10102013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	86525	0.0804
4	3.63	t-Butanol	154670	0.9712
5	4.44	n-Propanol	208504	1.0000

AQ QC Cerilliant Lot # FN021111-03
TV= 0.080
Avg vials 10 + 11 = 0.080 100%
10/11/13 [illegible]

13-16-100 51 [illegible]



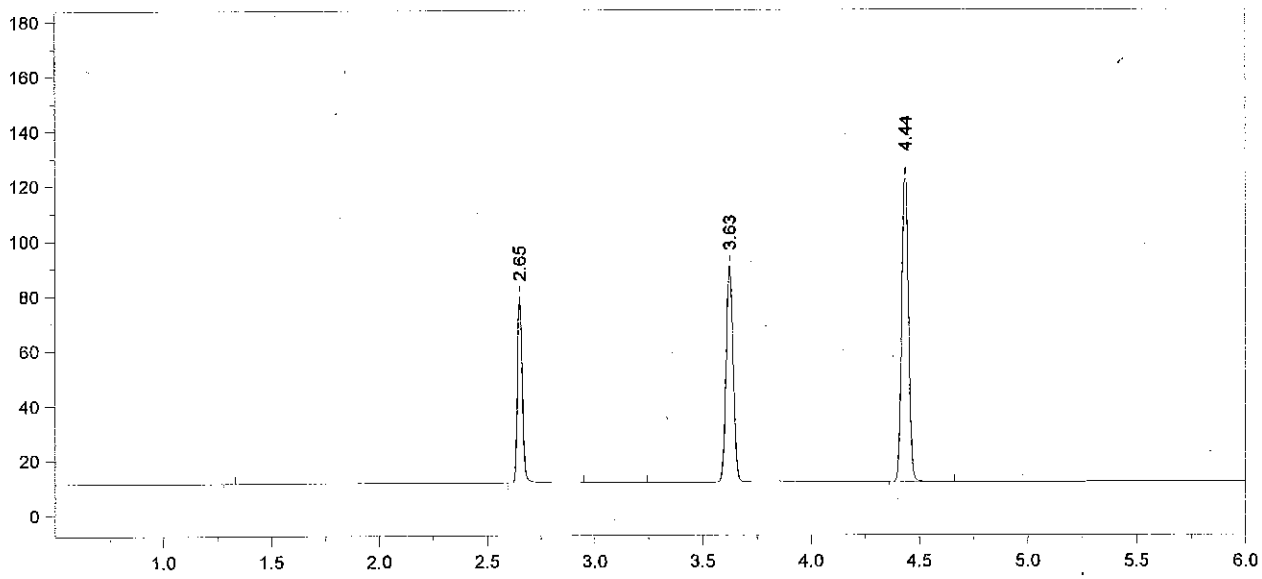
Format File Name = AlcoholVFL.FMT

Today's Date = 10/10/2013
Today's Time = 7:04:04 PM
Bound File Name = VFL10102013.0012.RAW
Sample Name = CCS
Date Taken = 10/10/2013 7:03:58 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10102013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	93173	0.0844
4	3.63	t-Butanol	165113	1.0107
5	4.44	n-Propanol	213890	1.0000

13-16-100 52 [illegible]

Chrom Perfect Chromatogram Report



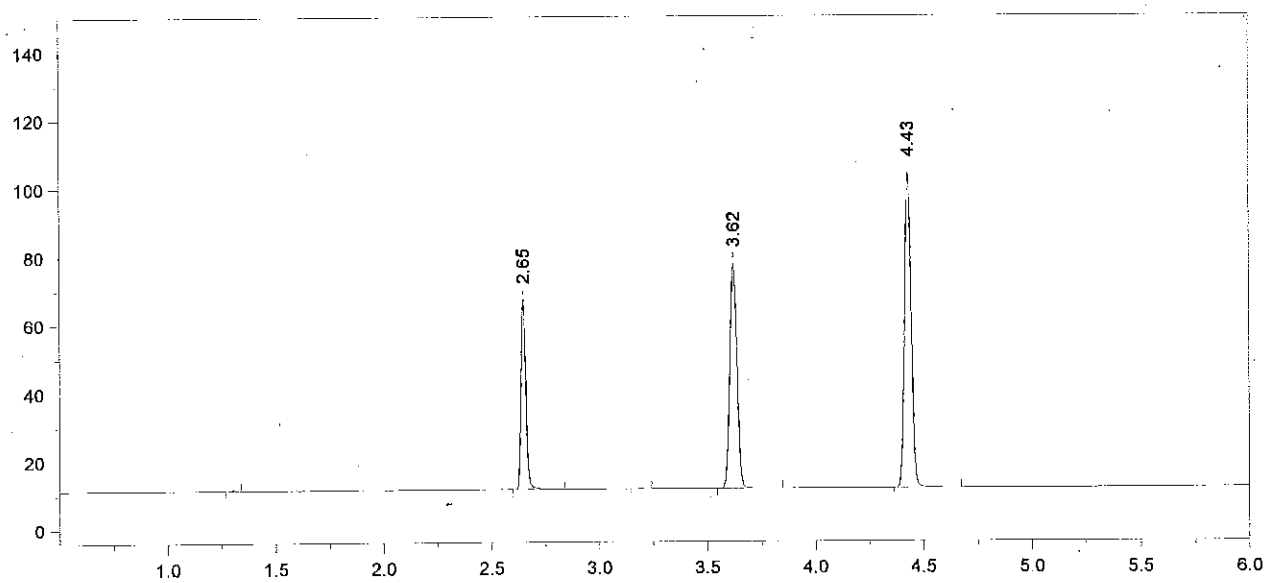
Format File Name = AlcoholVFL.FMT

Today's Date = 10/10/2013
Today's Time = 7:17:18 PM
Bound File Name = VFL10102013.0013.RAW
Sample Name = CCS
Date Taken = 10/10/2013 7:17:14 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10102013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	106386	0.0842
4	3.63	t-Butanol	182469	0.9765
5	4.44	n-Propanol	244666	1.0000

Avg vals 12 + 13 = 0.084
10/11/13

13-16-100 53



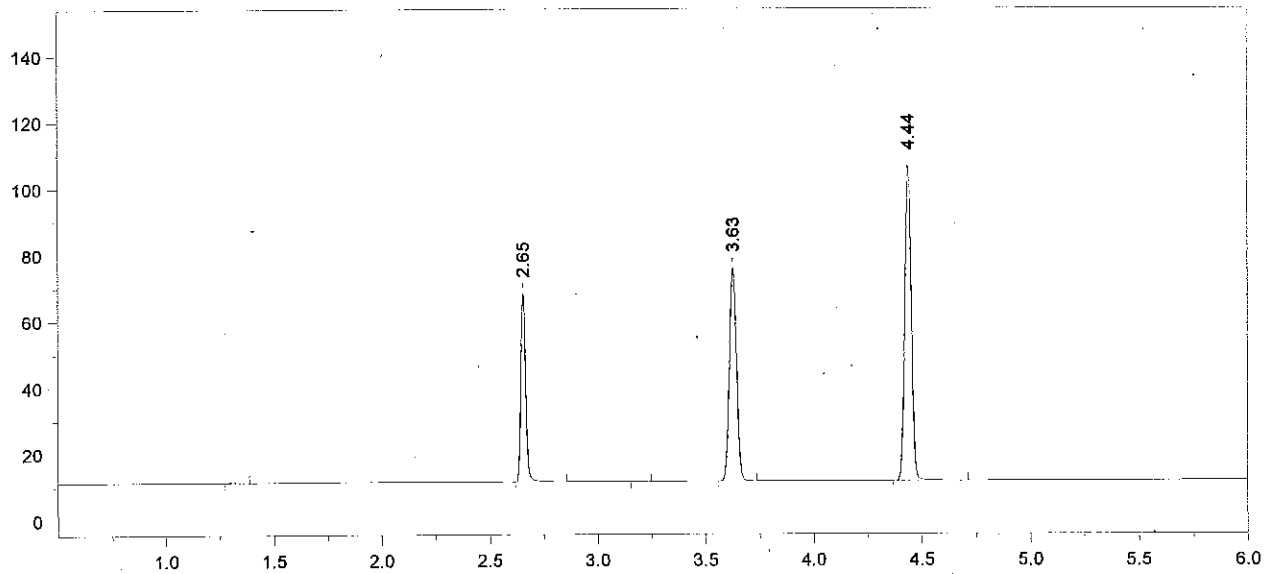
Format File Name = AlcoholVFL.FMT

Today's Date = 10/10/2013
Today's Time = 9:08:08 PM
Bound File Name = VFL10102013.0020.RAW
Sample Name = CCS
Date Taken = 10/10/2013 9:08:03 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10102013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	86775	0.0856
4	3.62	t-Butanol	153548	1.0237
5	4.43	n-Propanol	196392	1.0000

13-16-100 S4 AeB

Chrom Perfect Chromatogram Report



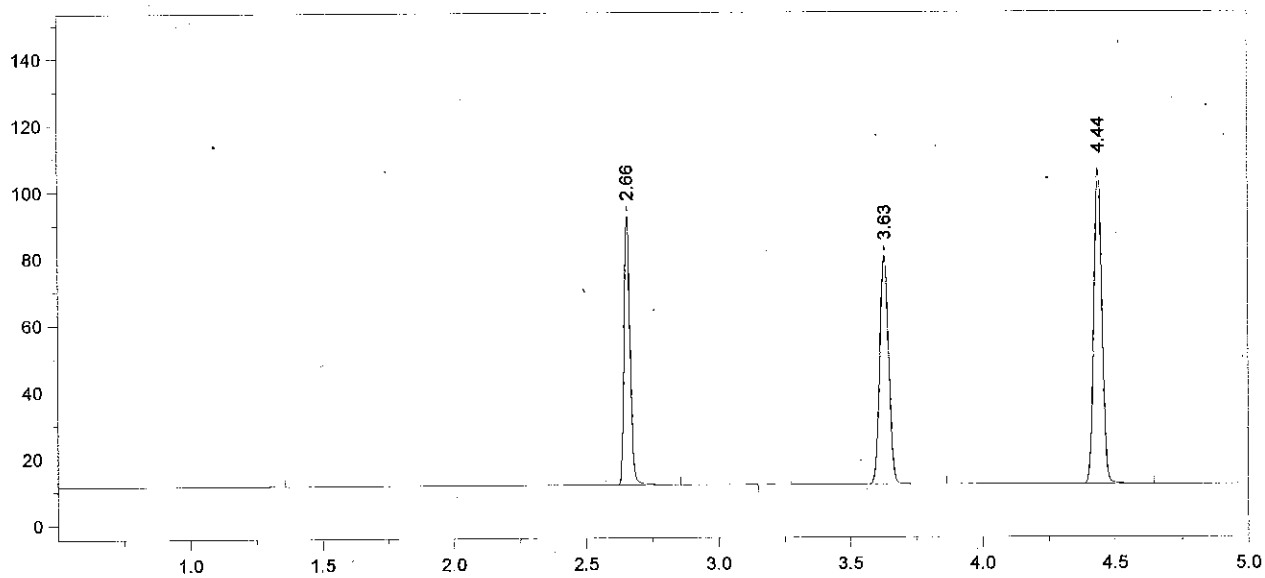
Format File Name = AlcoholVFL.FMT

Today's Date = 10/10/2013
Today's Time = 9:22:15 PM
Bound File Name = VFL10102013.0021.RAW
Sample Name = CCS
Date Taken = 10/10/2013 9:22:08 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10102013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	89389	0.0857
4	3.63	t-Butanol	148903	0.9649
5	4.44	n-Propanol	202046	1.0000

Avg vials 20 + 21 = 0.085
10/11/13 [illegible]

13-16-100 55 [illegible]

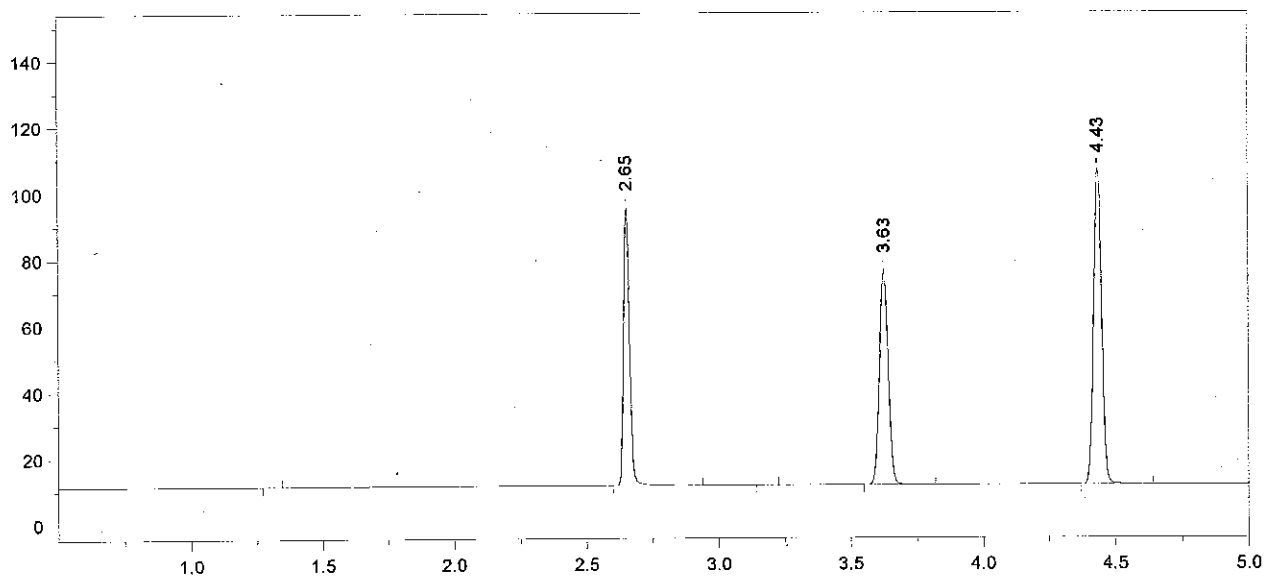


Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/10/2013
Today's Time = 9:39:35 PM
Bound File Name = VFL10102013.0022.RAW
Sample Name = 0.1 ALB
Date Taken = 10/10/2013 9:39:29 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10102013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	125650	0.1207	0.0985
4	3.63	t-Butanol	159258	1.0341	0.8440
5	4.44	n-Propanol	201639	1.0000	0.8162

13-16-100 56 AeB

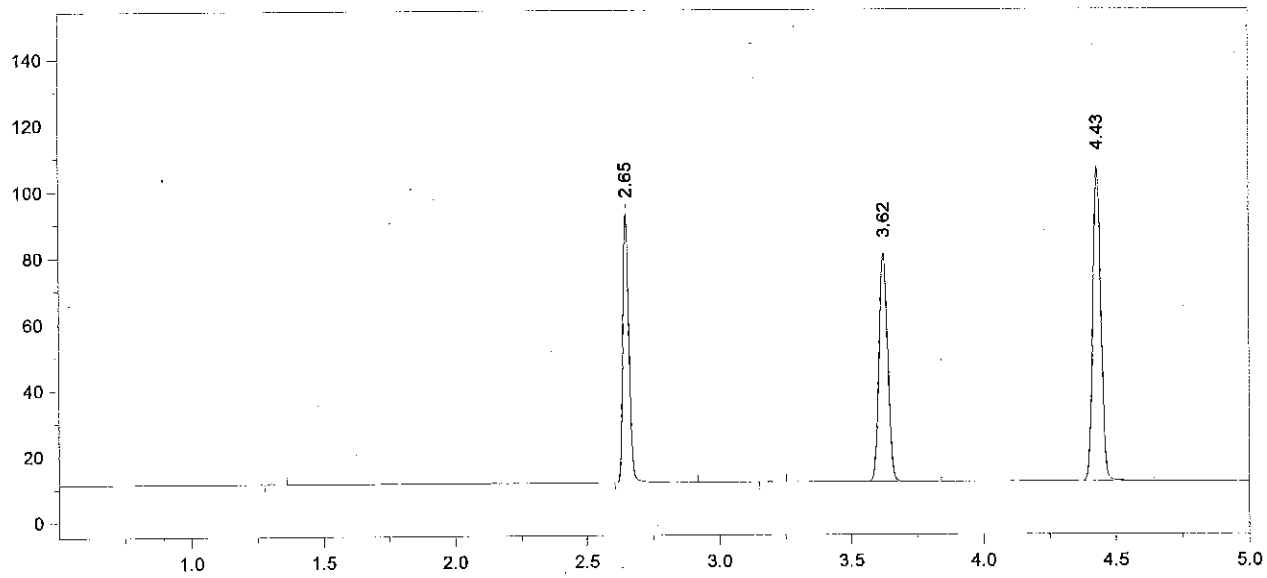


Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/10/2013
Today's Time = 9:53:26 PM
Bound File Name = VFL10102013.0023.RAW
Sample Name = 0.1 ALB
Date Taken = 10/10/2013 9:53:17 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10102013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	130963	0.1255	0.1024
4	3.63	t-Butanol	150520	0.9750	0.7958
5	4.43	n-Propanol	202138	1.0000	0.8162

13-116-100 57 [illegible]

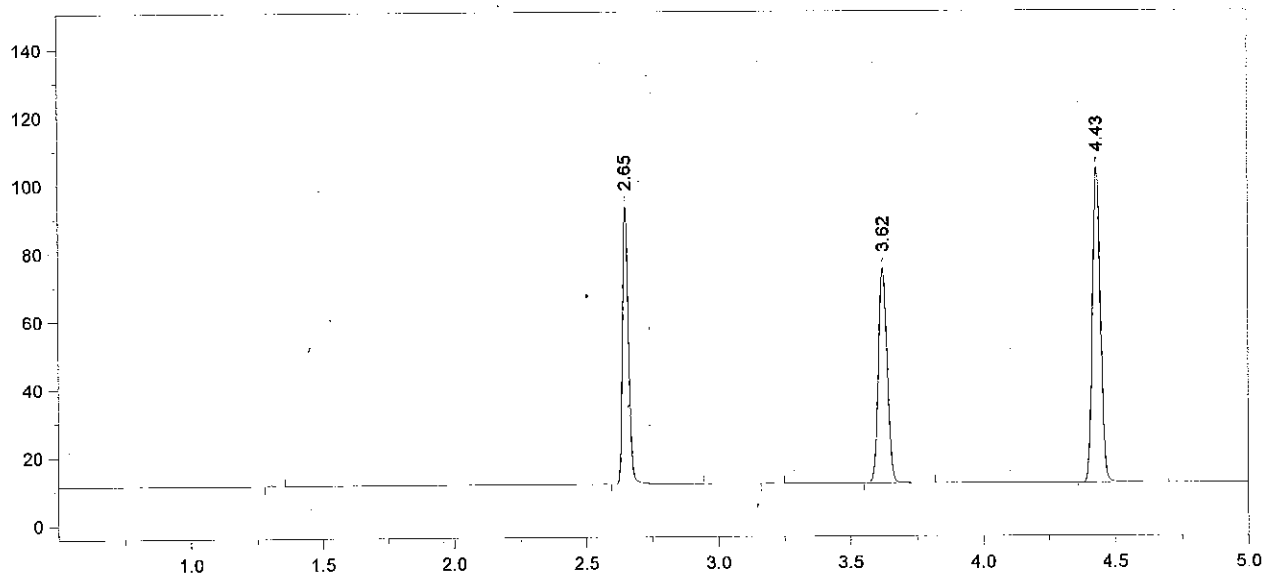


Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/10/2013
Today's Time = 10:11:04 PM
Bound File Name = VFL10102013.0024.RAW
Sample Name = 0.1 ALB
Date Taken = 10/10/2013 10:10:54 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10102013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	127065	0.1214	0.0991
4	3.62	t-Butanol	159804	1.0326	0.8428
5	4.43	n-Propanol	202622	1.0000	0.8162

13-116-100 58 AeB

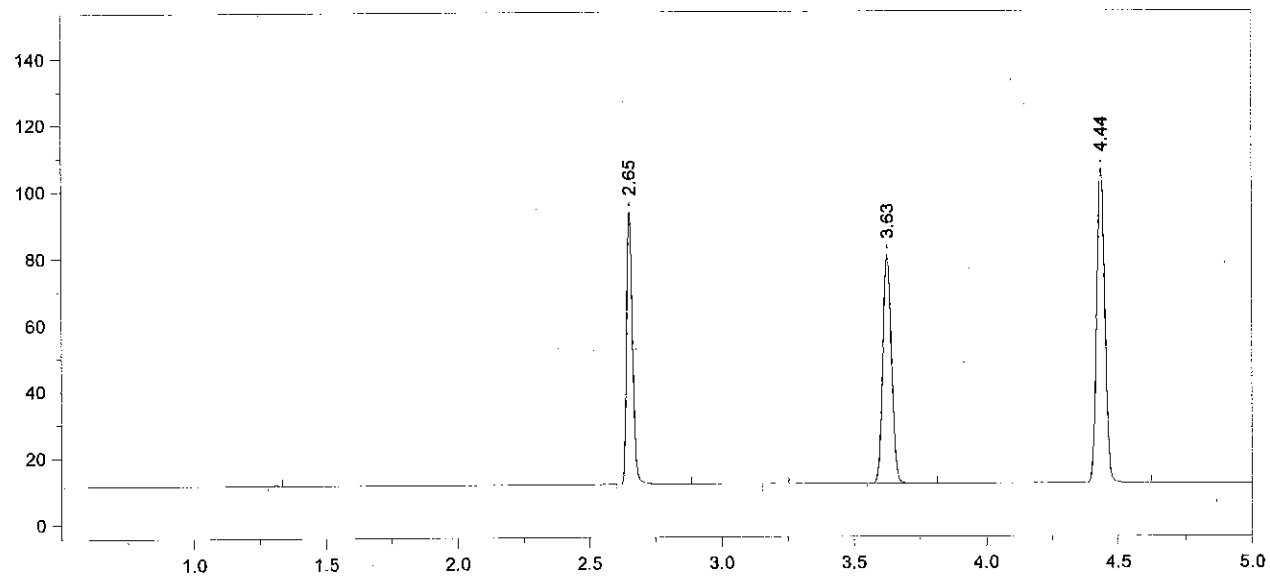


Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/10/2013
Today's Time = 10:24:51 PM
Bound File Name = VFL10102013.0025.RAW
Sample Name = 0.1 ALB
Date Taken = 10/10/2013 10:24:42 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10102013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	126565	0.1248	0.1019
4	3.62	t-Butanol	146598	0.9774	0.7978
5	4.43	n-Propanol	196371	1.0000	0.8162

13-16-100 59

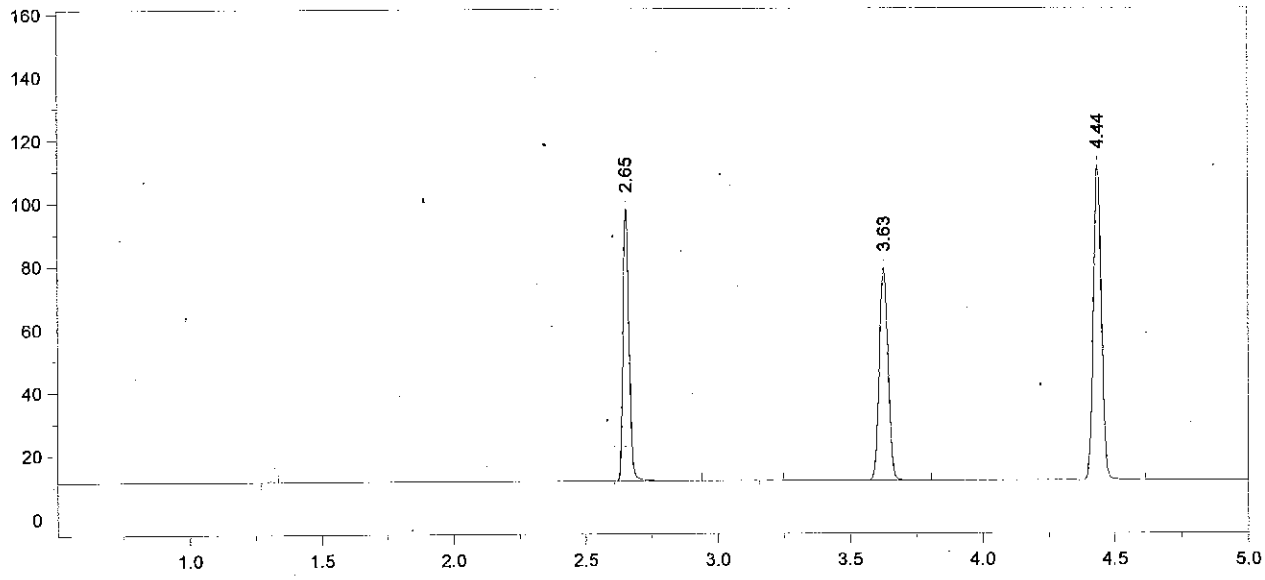


Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/10/2013
Today's Time = 10:42:28 PM
Bound File Name = VFL10102013.0026.RAW
Sample Name = 0.1 ALB
Date Taken = 10/10/2013 10:42:18 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10102013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	126959	0.1216	0.0993
4	3.63	t-Butanol	159515	1.0332	0.8433
5	4.44	n-Propanol	202137	1.0000	0.8162

13-16-100 60 AeB

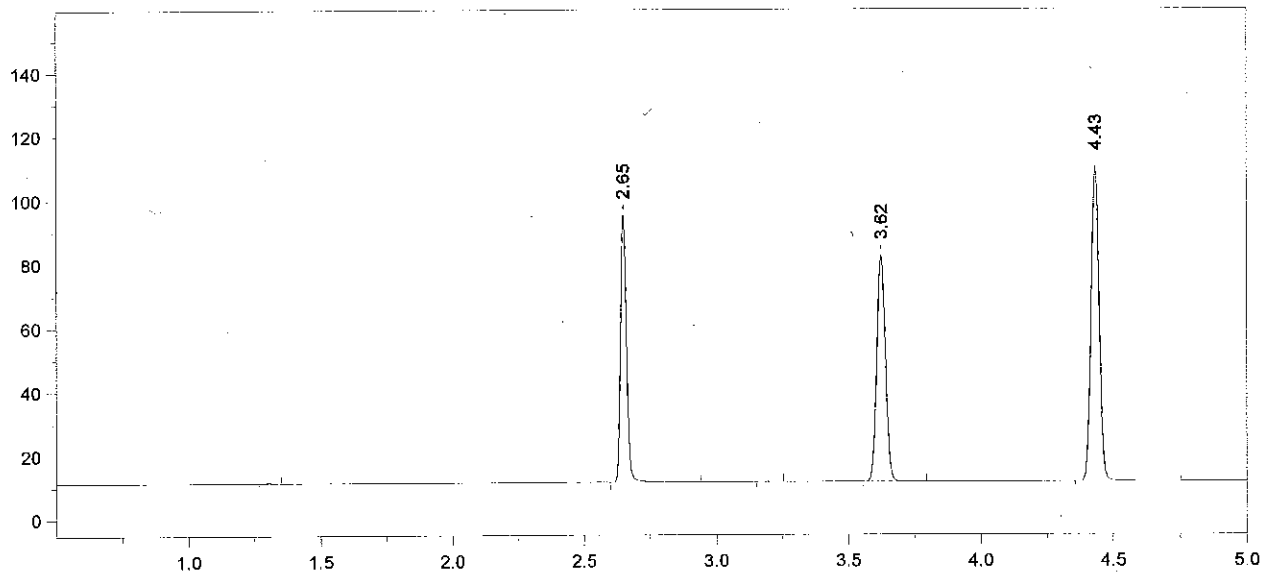


Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/10/2013
Today's Time = 10:56:04 PM
Bound File Name = VFL10102013.0027.RAW
Sample Name = 0.1 ALB
Date Taken = 10/10/2013 10:55:59 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10102013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	133963	0.1222	0.0997
4	3.63	t-Butanol	156495	0.9651	0.7877
5	4.44	n-Propanol	212312	1.0000	0.8162

13-16-100

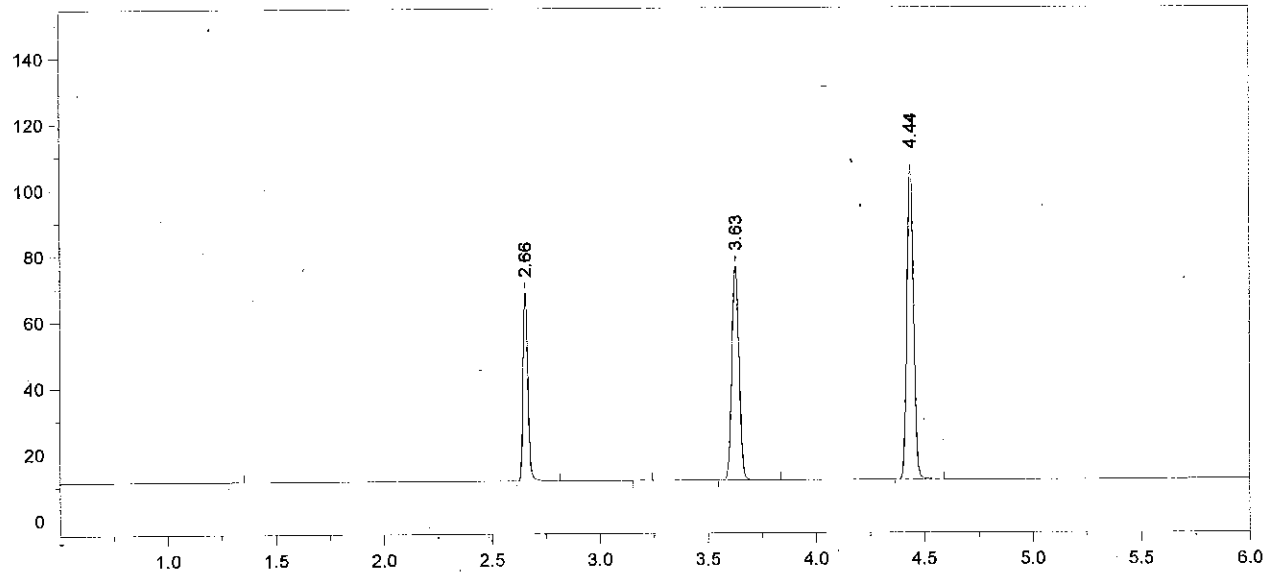


Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/10/2013
Today's Time = 11:13:51 PM
Bound File Name = VFL10102013.0028.RAW
Sample Name = 0.1 ALB
Date Taken = 10/10/2013 11:13:42 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10102013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	129579	0.1198	0.0978
4	3.62	t-Butanol	163722	1.0237	0.8355
5	4.43	n-Propanol	209401	1.0000	0.8162

13-16-100 62 AeB



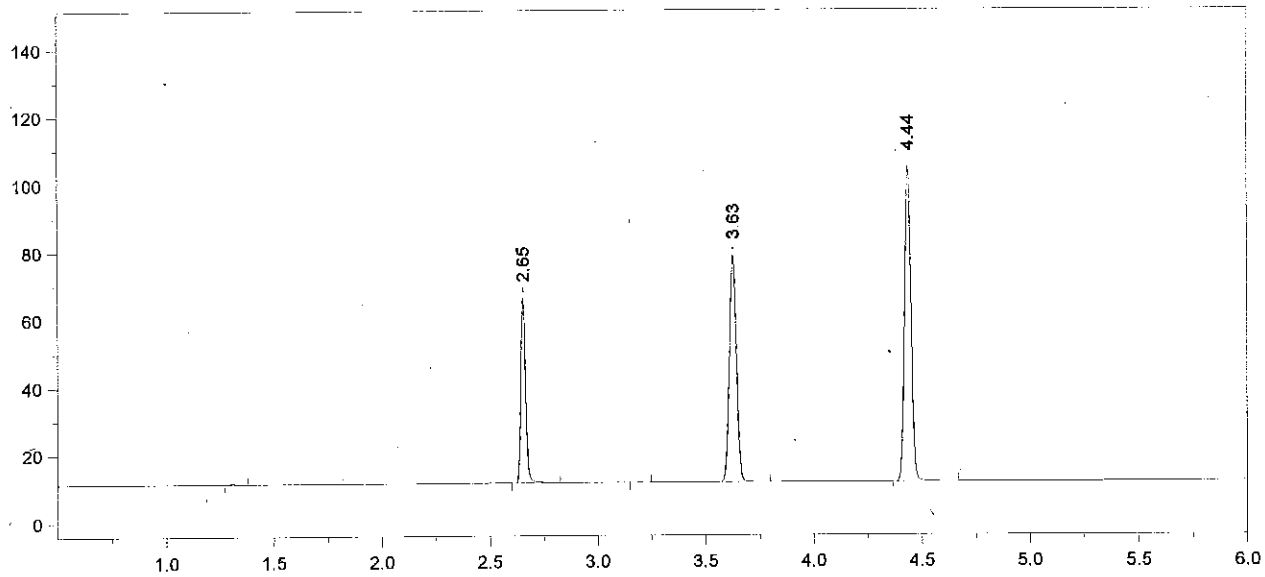
Format File Name = AlcoholVFL.FMT

Today's Date = 10/10/2013
Today's Time = 11:26:59 PM
Bound File Name = VFL10102013.0029.RAW
Sample Name = CCS
Date Taken = 10/10/2013 11:26:53 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10102013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	88958	0.0851
4	3.63	t-Butanol	150342	0.9719
5	4.44	n-Propanol	202532	1.0000

13-16-100 63 [illegible]

Chrom Perfect Chromatogram Report



Format File Name = AlcoholVFL.FMT

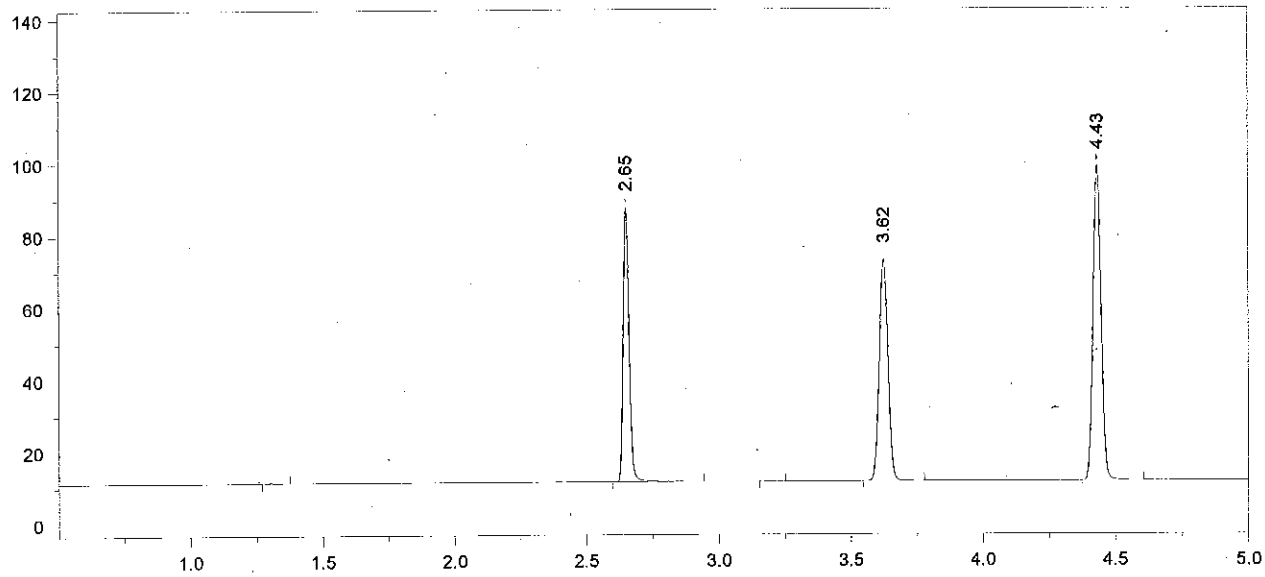
Today's Date = 10/10/2013
Today's Time = 11:45:18 PM
Bound File Name = VFL10102013.0030.RAW
Sample Name = CCS
Date Taken = 10/10/2013 11:45:09 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10102013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	85281	0.0836
4	3.63	t-Butanol	155184	1.0287
5	4.44	n-Propanol	197519	1.0000

Avg vials 29 + 30 = 0.084
10/11/13
AB

13-16-100 64 AB

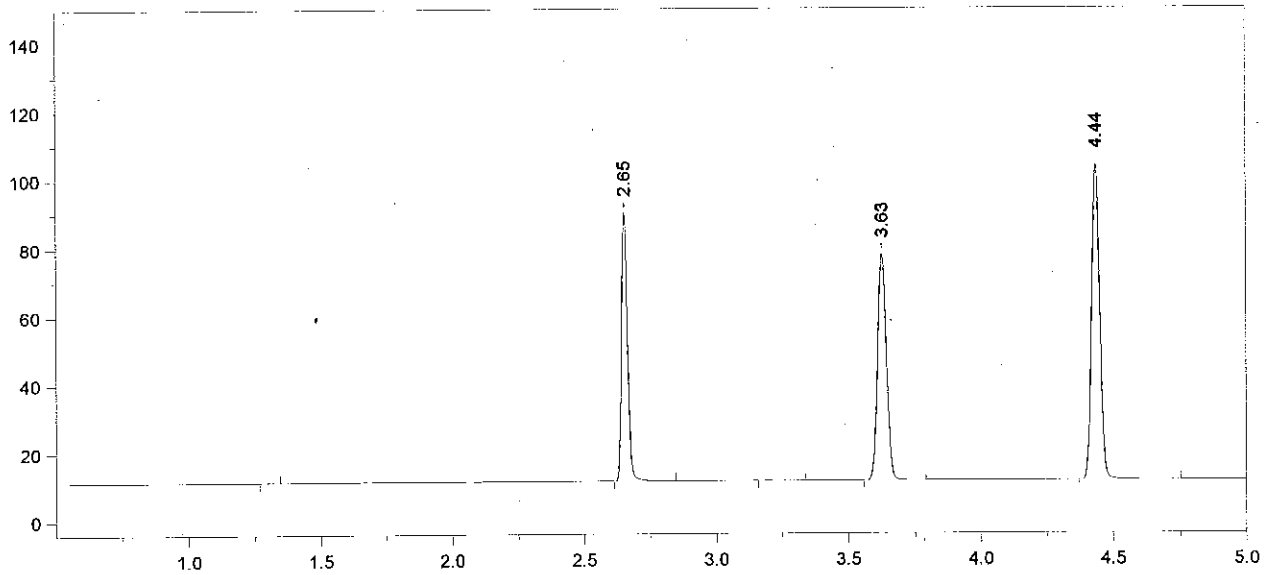
Chrom Perfect Chromatogram Report



Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/10/2013
Today's Time = 11:59:45 PM
Bound File Name = VFL10102013.0031.RAW
Sample Name = 0.1 RLM
Date Taken = 10/10/2013 11:59:40 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10102013.CAL
Calibration Version = 7

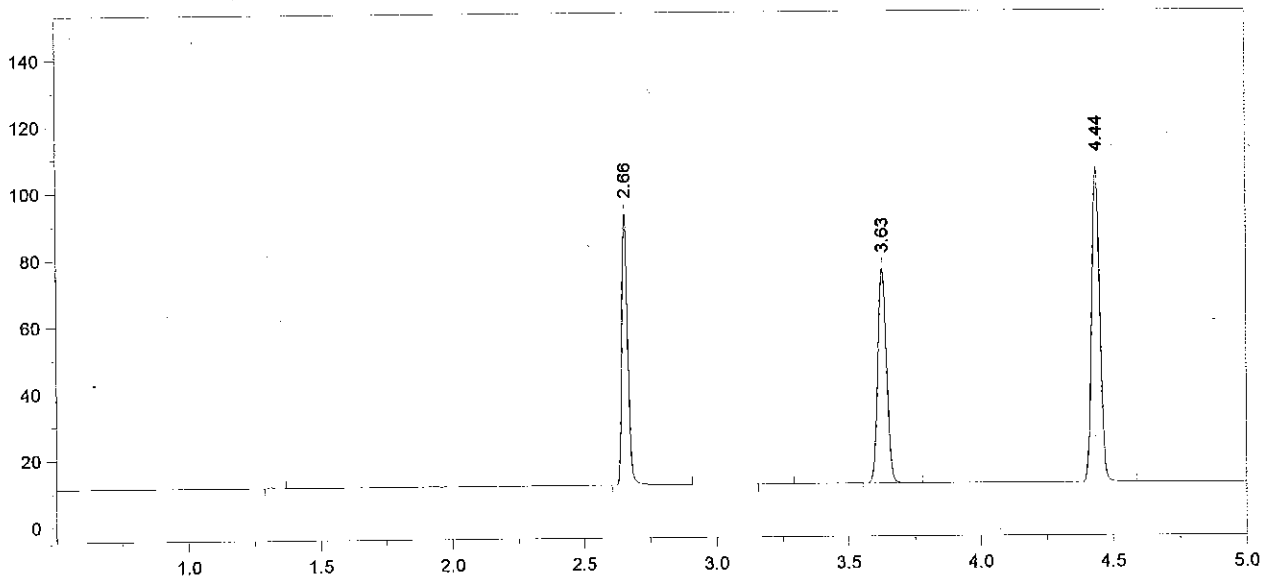
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	118340	0.1232	0.1006
4	3.62	t-Butanol	142816	1.0053	0.8205
5	4.43	n-Propanol	186004	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/11/2013
Today's Time = 12:15:03 AM
Bound File Name = VFL10102013.0032.RAW
Sample Name = 0.1 RLM
Date Taken = 10/11/2013 12:14:58 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10102013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	121513	0.1200	0.0980
4	3.63	t-Butanol	153767	1.0269	0.8382
5	4.44	n-Propanol	196046	1.0000	0.8162

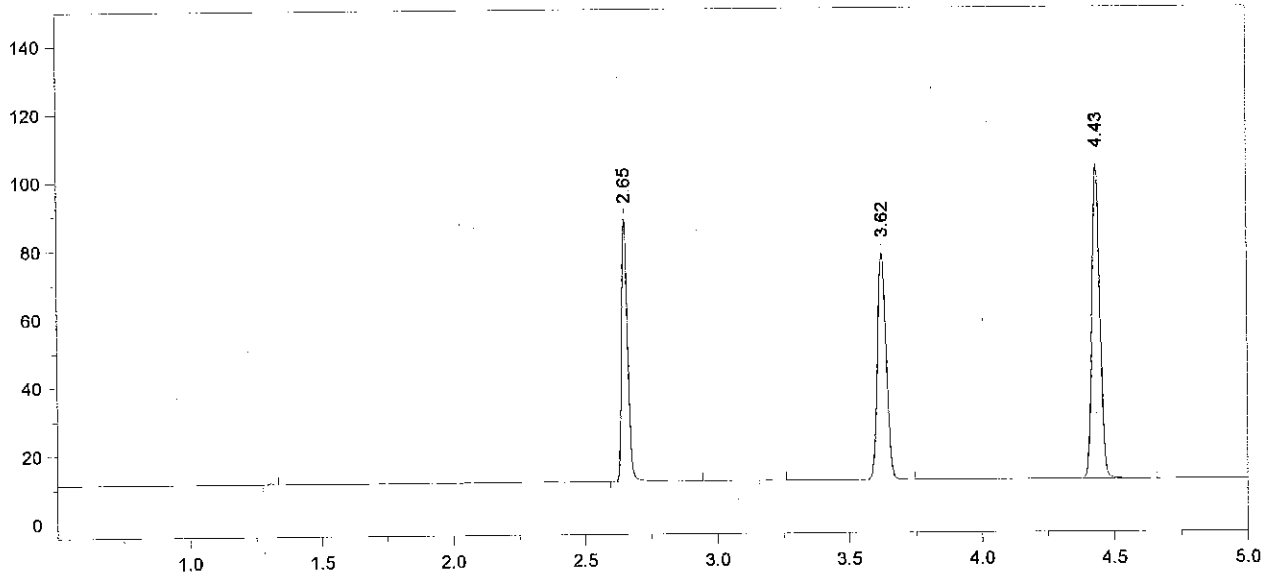


Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/11/2013
Today's Time = 12:30:32 AM
Bound File Name = VFL10102013.0033.RAW
Sample Name = 0.1 RLM
Date Taken = 10/11/2013 12:30:21 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10102013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	127060	0.1228	0.1002
4	3.63	t-Butanol	149189	0.9748	0.7956
5	4.44	n-Propanol	200384	1.0000	0.8162

Chrom Perfect Chromatogram Report



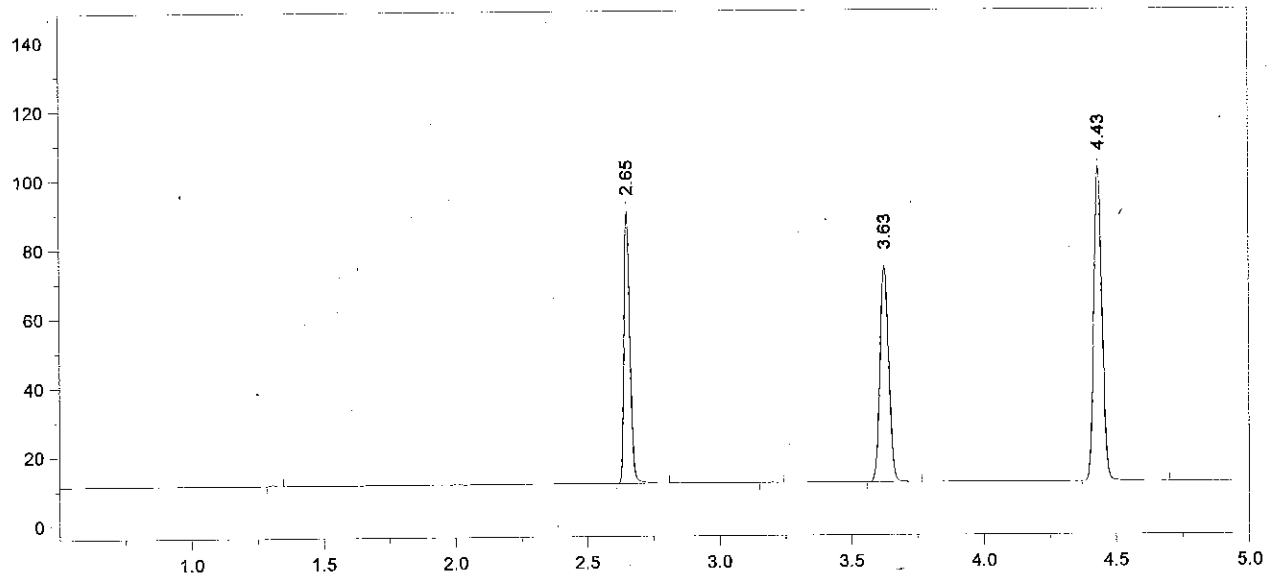
Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/11/2013
Today's Time = 12:46:30 AM
Bound File Name = VFL10102013.0034.RAW
Sample Name = 0.1 RLM
Date Taken = 10/11/2013 12:46:23 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10102013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	120406	0.1192	0.0973
4	3.62	t-Butanol	154731	1.0359	0.8455
5	4.43	n-Propanol	195572	1.0000	0.8162

13-16-1AD 68

Chrom Perfect Chromatogram Report

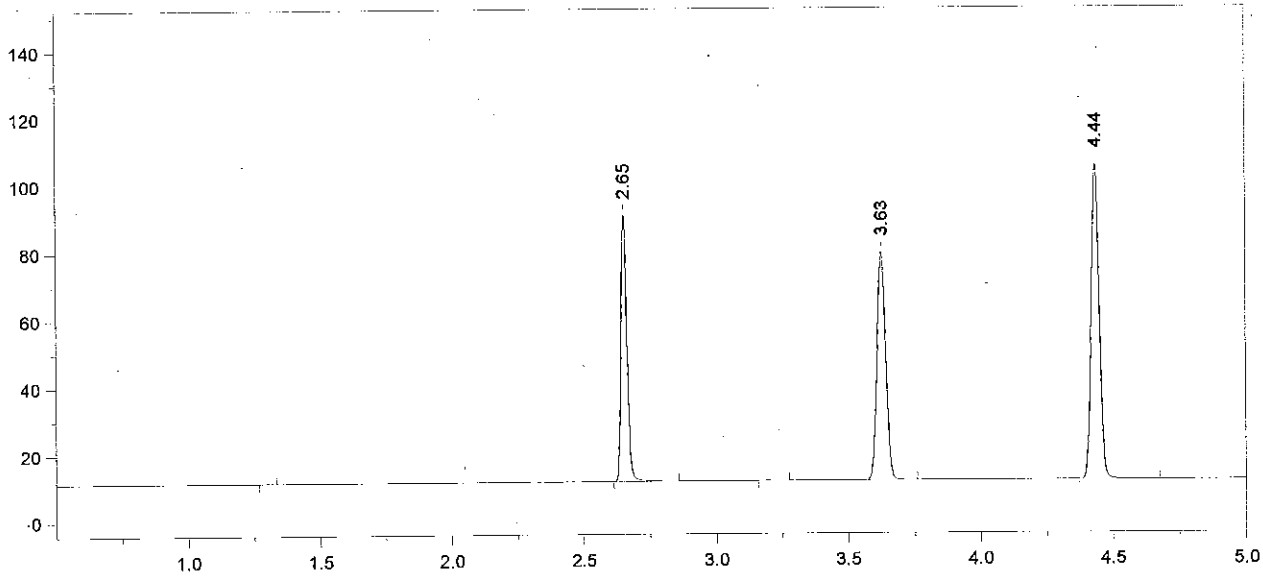


Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/11/2013
Today's Time = 1:00:15 AM
Bound File Name = VFL10102013.0035.RAW
Sample Name = 0.1 RLM
Date Taken = 10/11/2013 1:00:11 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10102013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	122294	0.1218	0.0994
4	3.63	t-Butanol	145295	0.9787	0.7988
5	4.43	n-Propanol	194372	1.0000	0.8162

Chrom Perfect Chromatogram Report



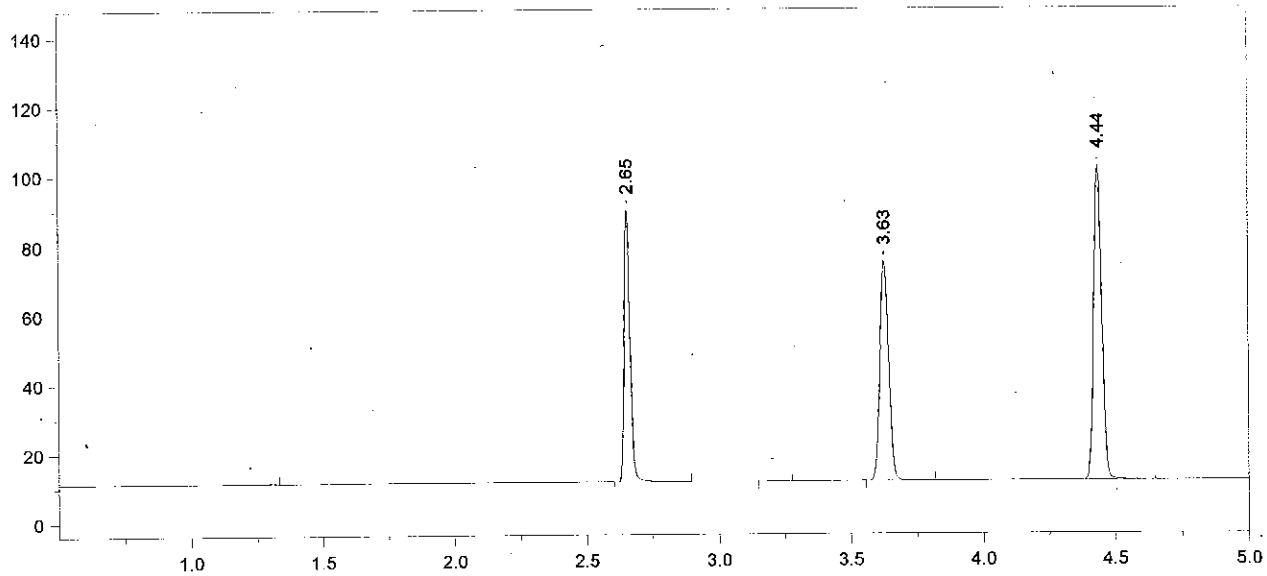
Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/11/2013
Today's Time = 1:17:52 AM
Bound File Name = VFL10102013.0036.RAW
Sample Name = 0.1 RLM
Date Taken = 10/11/2013 1:17:47 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10102013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	122653	0.1191	0.0972
4	3.63	t-Butanol	157385	1.0333	0.8433
5	4.44	n-Propanol	199432	1.0000	0.8162

13-14-140 70

Chrom Perfect Chromatogram Report



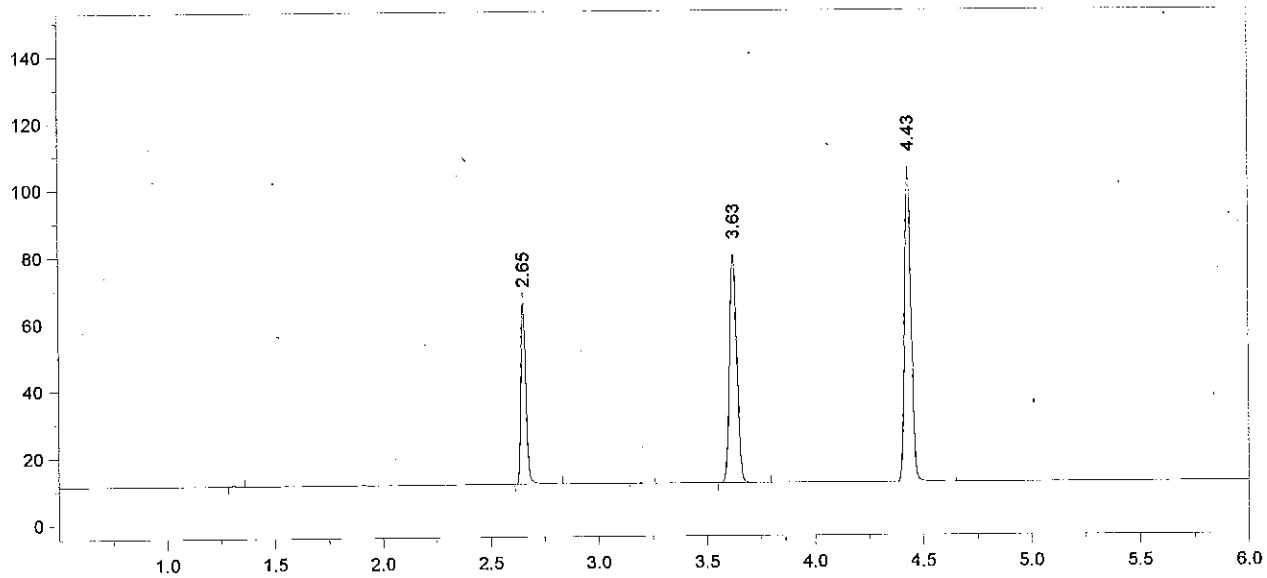
Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/11/2013
Today's Time = 1:31:37 AM
Bound File Name = VFL10102013.0037.RAW
Sample Name = 0.1 RLM
Date Taken = 10/11/2013 1:31:30 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10102013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	122224	0.1224	0.0999
4	3.63	t-Butanol	146835	0.9939	0.8112
5	4.44	n-Propanol	193430	1.0000	0.8162

13-16-100 71

Chrom Perfect Chromatogram Report

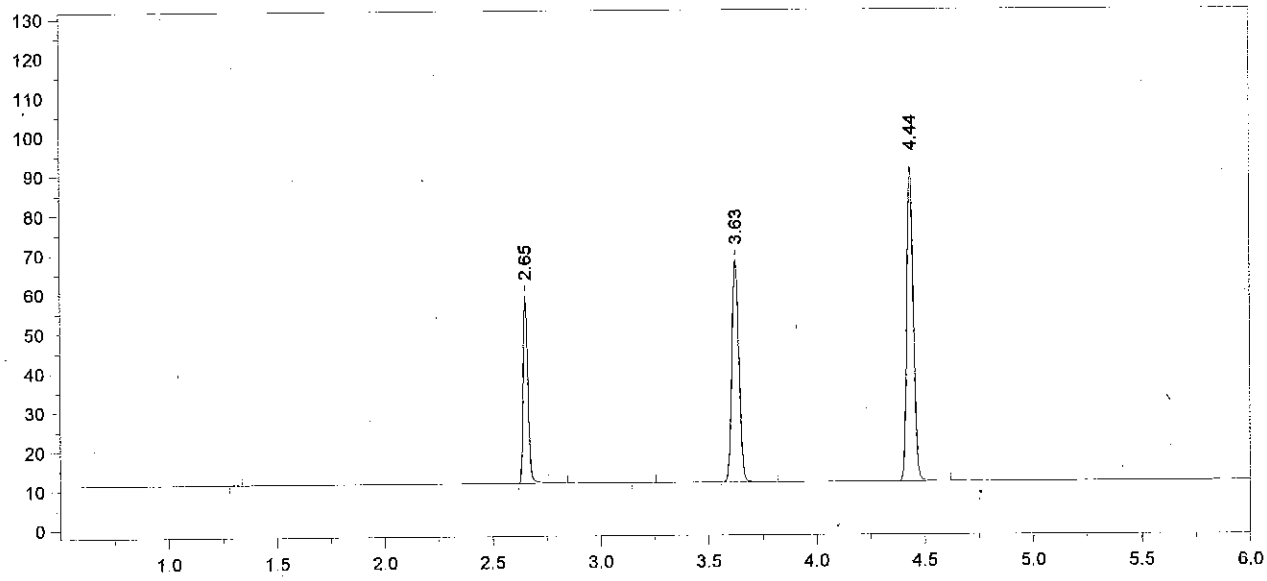


Format File Name = AlcoholVFL.FMT

Today's Date = 10/11/2013
Today's Time = 1:49:19 AM
Bound File Name = VFL10102013.0038.RAW
Sample Name = CCS
Date Taken = 10/11/2013 1:49:14 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10102013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	84898	0.0825
4	3.63	t-Butanol	158343	1.0404
5	4.43	n-Propanol	199275	1.0000

Chrom Perfect Chromatogram Report



Format File Name = AlcoholVFL.FMT

Today's Date = 10/11/2013
Today's Time = 2:03:05 AM
Bound File Name = VFL10102013.0039.RAW
Sample Name = CCS
Date Taken = 10/11/2013 2:02:59 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10102013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	74322	0.0850
4	3.63	t-Butanol	130917	1.0120
5	4.44	n-Propanol	169370	1.0000

Avg vals 38 + 39 = 0.084
10/11/13 [illegible]

13 11 [illegible] 73 [illegible]

Headspace Alcohol Analysis Standards Coversheet

Analyst: RLM Date: 10/2/13

10/8/2013

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 (c)
% 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	Data not used % RPD > 10% 10/11/13 AeB
		Acetaldehyde	1.92		
		Methanol	2.02		
		Ethanol	2.65		
		Acetone	3.06		
		Isopropanol	3.19		
		T- butanol	3.63		
		n-propanol	4.44		
3	Standard A		0.006	(Y) N	
4	Standard B		0.024	(Y) N	
5	Standard C		0.083	(Y) N	
6	Standard D		0.199	(Y) N	
7	Standard E		0.412	(Y) N	
~~8~~ 10 RLM 10/3/13	Aqueous QC		0.0785	(Y) N	Avg = 0.079 (99% recovery) ✓
~~9~~ 11 RLM 10/3/13	Aqueous QC		0.0798	(Y) N	

74 ~~38~~ 10/14/13

File Name = C:\Alcohol Data\VFL10022013\VFL10022013.SEQ
Version = 1
File Date = 10/2/2013 4:34:20 PM

Entry #	Raw File Name	Method File Name	Sample Name	Sample Wt.	Int. Std. Amount
1	VFL10022013.0001.raw	Blood Alc temp VFL.MET	Blank	1.00	1.00
2	VFL10022013.0002.raw	Blood Alc temp VFL.MET	TMX	1.00	1.00
3	VFL10022013.0003.raw	Blood Alc temp VFL.MET	STD A	1.00	1.00
4	VFL10022013.0004.raw	Blood Alc temp VFL.MET	STD B	1.00	1.00
5	VFL10022013.0005.raw	Blood Alc temp VFL.MET	STD C	1.00	1.00
6	VFL10022013.0006.raw	Blood Alc temp VFL.MET	STD D	1.00	1.00
7	VFL10022013.0007.raw	Blood Alc temp VFL.MET	STD E	1.00	1.00
8	VFL10022013.0008.raw	Blood Alc temp VFL.MET	WB	1.00	1.00
9	VFL10022013.0009.raw	Blood Alc temp VFL.MET	WB	1.00	1.00
10	VFL10022013.0010.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
11	VFL10022013.0011.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
12	VFL10022013.0012.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
13	VFL10022013.0013.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
14	VFL10022013.0014.raw	Blood Alc temp VFL.MET	V13-2050 A1-1 casework	1.00	1.00
15	VFL10022013.0015.raw	Blood Alc temp VFL.MET	V13-2050 A1-1	1.00	1.00
16	VFL10022013.0016.raw	Blood Alc temp VFL.MET	V13-2057 A1-1 not included	1.00	1.00
17	VFL10022013.0017.raw	Blood Alc temp VFL.MET	V13-2057 A1-1 RLM 10/3/13	1.00	1.00
18	VFL10022013.0018.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
19	VFL10022013.0019.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
20	VFL10022013.0020.raw	Blood Alc temp VFL.MET	V13-1943 A1-1	1.00	1.00
21	VFL10022013.0021.raw	Blood Alc temp VFL.MET	V13-1943 A1-1	1.00	1.00
22	VFL10022013.0022.raw	Blood Alc temp VFL.MET	V13-1943 A1-2 casework	1.00	1.00
23	VFL10022013.0023.raw	Blood Alc temp VFL.MET	V13-1943 A1-2	1.00	1.00
24	VFL10022013.0024.raw	Blood Alc temp VFL.MET	V13-1943 A1-3 not included	1.00	1.00
25	VFL10022013.0025.raw	Blood Alc temp VFL.MET	V13-1943 A1-3 RLM 10/3/13	1.00	1.00
26	VFL10022013.0026.raw	Blood Alc temp VFL.MET	V13-1943 A1-4	1.00	1.00
27	VFL10022013.0027.raw	Blood Alc temp VFL.MET	V13-1943 A1-4	1.00	1.00
28	VFL10022013.0028.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
29	VFL10022013.0029.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
30	VFL10022013.0030.raw	simsoln.met	RLM 0.1	1.00	1.00
31	VFL10022013.0031.raw	simsoln.met	RLM 0.1	1.00	1.00
32	VFL10022013.0032.raw	simsoln.met	RLM 0.1	1.00	1.00
33	VFL10022013.0033.raw	simsoln.met	RLM 0.1	1.00	1.00
34	VFL10022013.0034.raw	simsoln.met	RLM 0.1	1.00	1.00
35	VFL10022013.0035.raw	simsoln.met	RLM 0.1	1.00	1.00
36	VFL10022013.0036.raw	simsoln.met	RLM 0.1	1.00	1.00
37	VFL10022013.0037.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
38	VFL10022013.0038.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
39	VFL10022013.0039.raw	simsoln.met	ALB 0.1	1.00	1.00
40	VFL10022013.0040.raw	simsoln.met	ALB 0.1	1.00	1.00
41	VFL10022013.0041.raw	simsoln.met	ALB 0.1	1.00	1.00
42	VFL10022013.0042.raw	simsoln.met	ALB 0.1	1.00	1.00
43	VFL10022013.0043.raw	simsoln.met	ALB 0.1	1.00	1.00
44	VFL10022013.0044.raw	simsoln.met	ALB 0.1	1.00	1.00
45	VFL10022013.0045.raw	simsoln.met	ALB 0.1	1.00	1.00
46	VFL10022013.0046.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
47	VFL10022013.0047.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00

13-110-100 75 B 9 10/4/13 @ 4B

File Name: C:\Methods\VFL10022013.CAL
Version: 7

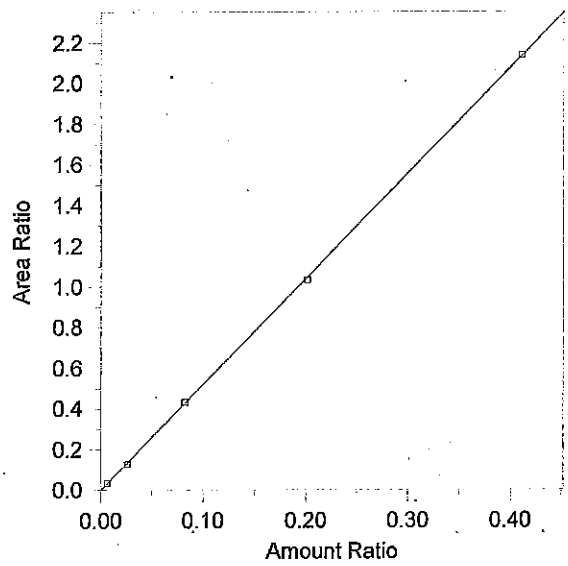
Creator:
Description:
Reason for change:

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:	2.657 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 = 5.187336 X + 0

Linear fit with equal weighting, forced to origin

Coefficient of determination:	0.9999341
Average error:	2.149%
Average CF:	5.196306
RSD:	3.043%

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	6772.094	1074936	4.458	0.0063	3.413701E-02	C:\Alcohol Data\VFL10022013\VFL10022013.0003.BND	10/3/2013 8:46:23 AM
3	0.0254	25066.71	986878.4	-3.872	0.0254	0.1266573	C:\Alcohol Data\VFL10022013\VFL10022013.0004.BND	10/3/2013 9:04:04 AM
4	0.0822	80509.23	979431	1.122	0.0822	0.4311836	C:\Alcohol Data\VFL10022013\VFL10022013.0005.BND	10/3/2013 9:18:16 AM
5	0.2012	206038	1024046	-1.068	0.2012	1.032541	C:\Alcohol Data\VFL10022013\VFL10022013.0006.BND	10/3/2013 9:35:27 AM
6	0.4112	423371.7	1029600	0.225	0.4112	2.137825	C:\Alcohol Data\VFL10022013\VFL10022013.0007.BND	10/3/2013 9:49:07 AM

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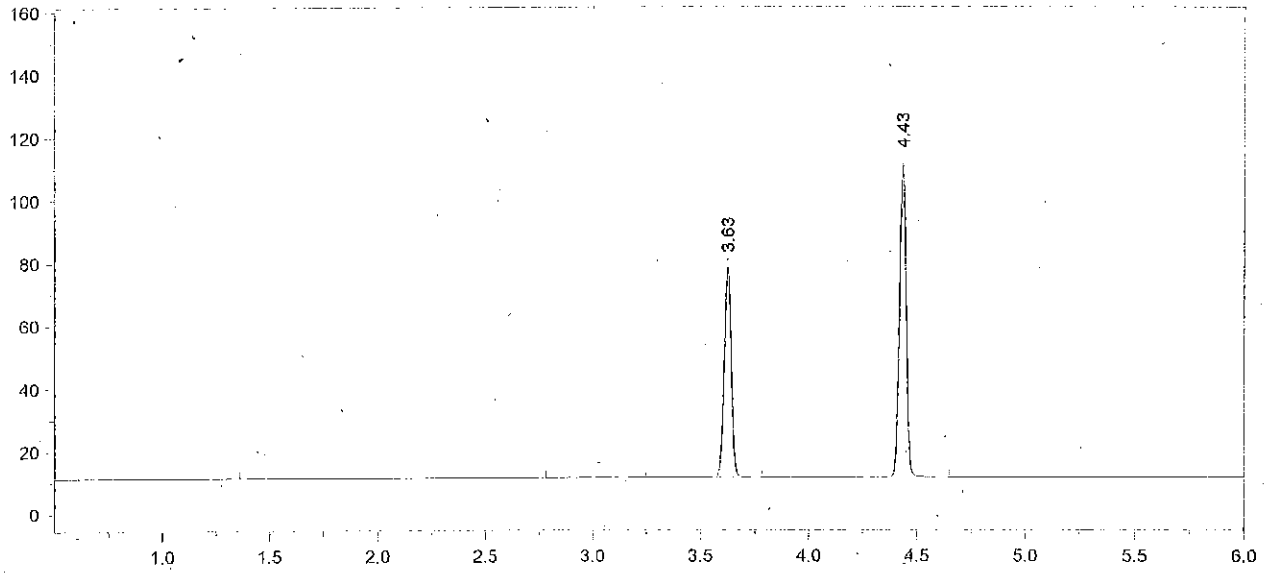


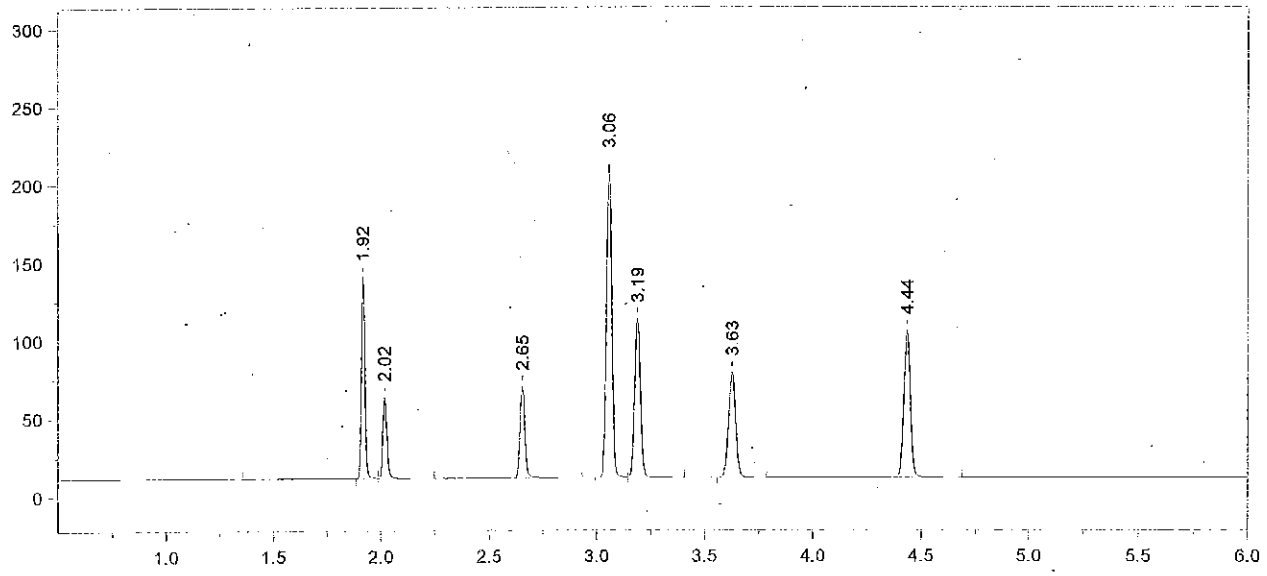
Format File Name = AlcoholVFL.FMT

Today's Date = 10/3/2013
Today's Time = 2:14:23 PM
Bound File Name = VFL10022013.0001.RAW
Sample Name = Blank
Date Taken = 10/3/2013 8:15:19 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10022013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	3.63	t-Butanol	155017	0.9542
5	4.43	n-Propanol	212446	1.0000

77

13-110-100 10/4/13

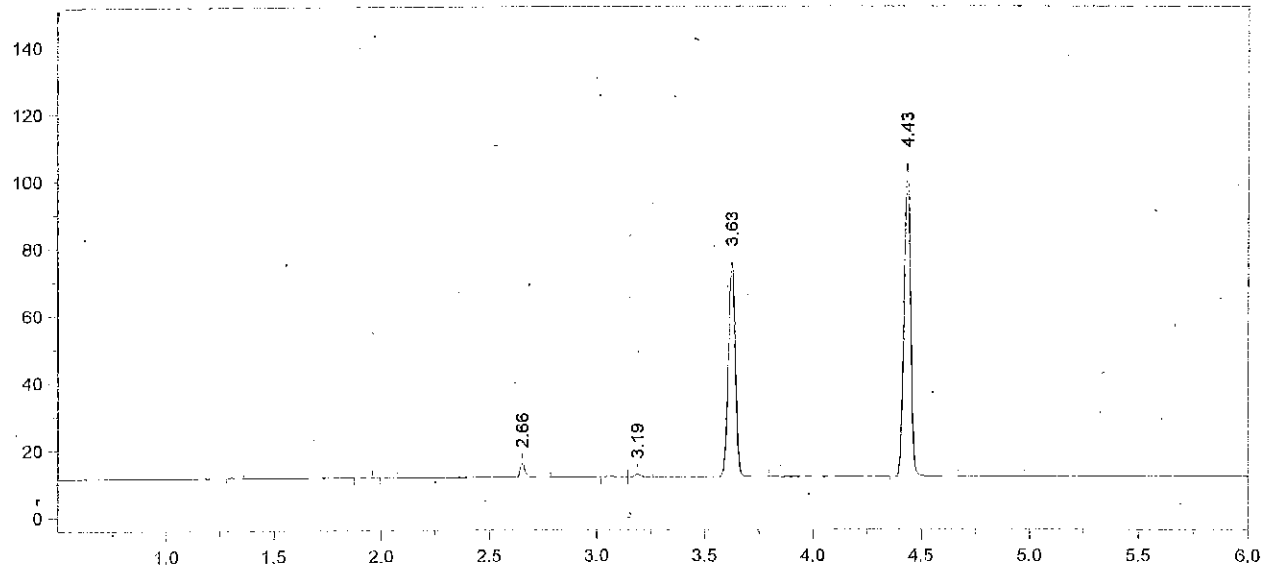


Format File Name = AlcoholVFL.FMT

Today's Date = 10/3/2013
Today's Time = 2:14:29 PM
Bound File Name = VFL10022013.0002.RAW
Sample Name = TMX
Date Taken = 10/3/2013 8:32:32 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10022013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	1.92	Acetaldehyde	150060	0.0520
3	2.02	Methanol	66408	0.1370
4	2.65	Ethanol	92224	0.0893
5	3.06	Acetone	344277	0.0940
6	3.19	Isopropanol	191080	0.0850
7	3.63	t-Butanol	156668	1.0291
8	4.44	n-Propanol	199077	1.0000

13-16-100 78 10/14/13

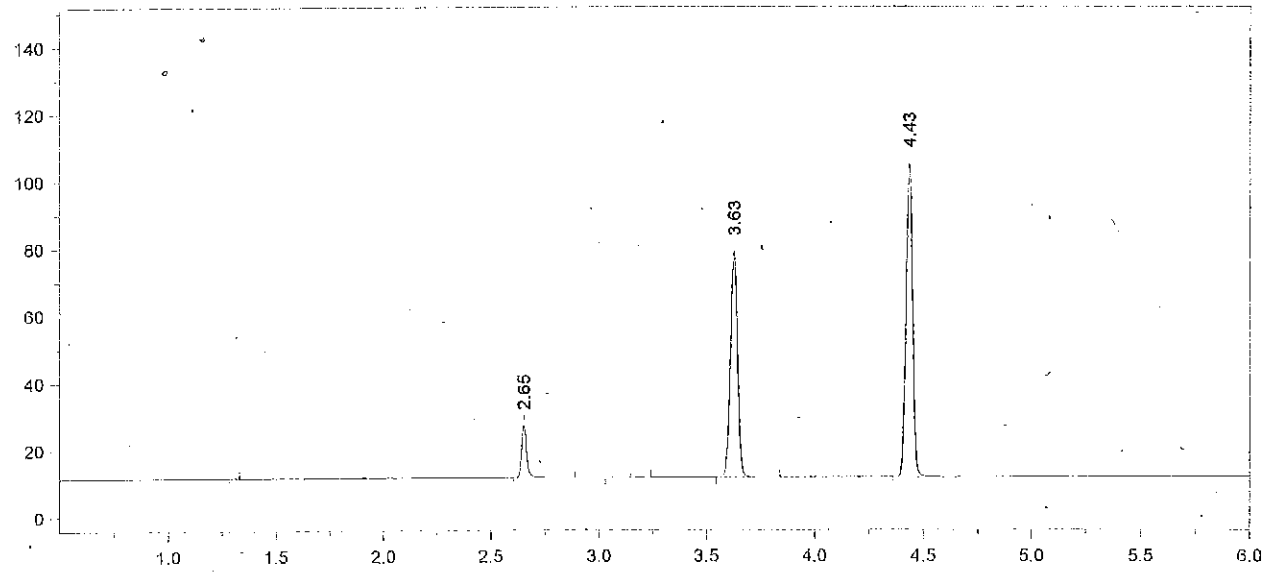


Format File Name = AlcoholVFL.FMT

Today's Date = 10/3/2013
Today's Time = 2:14:34 PM
Bound File Name = VFL10022013.0003.RAW
Sample Name = STD A
Date Taken = 10/3/2013 8:46:13 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10022013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	2.66	Ethanol	06772	0.0066 *
6	3.19	Isopropanol	01566	<0.004
7	3.63	t-Butanol	148209	0.9770
8	4.43	n-Propanol	198380	1.0000

13-16-100 ~~43~~ 79 10/14/13 DKB

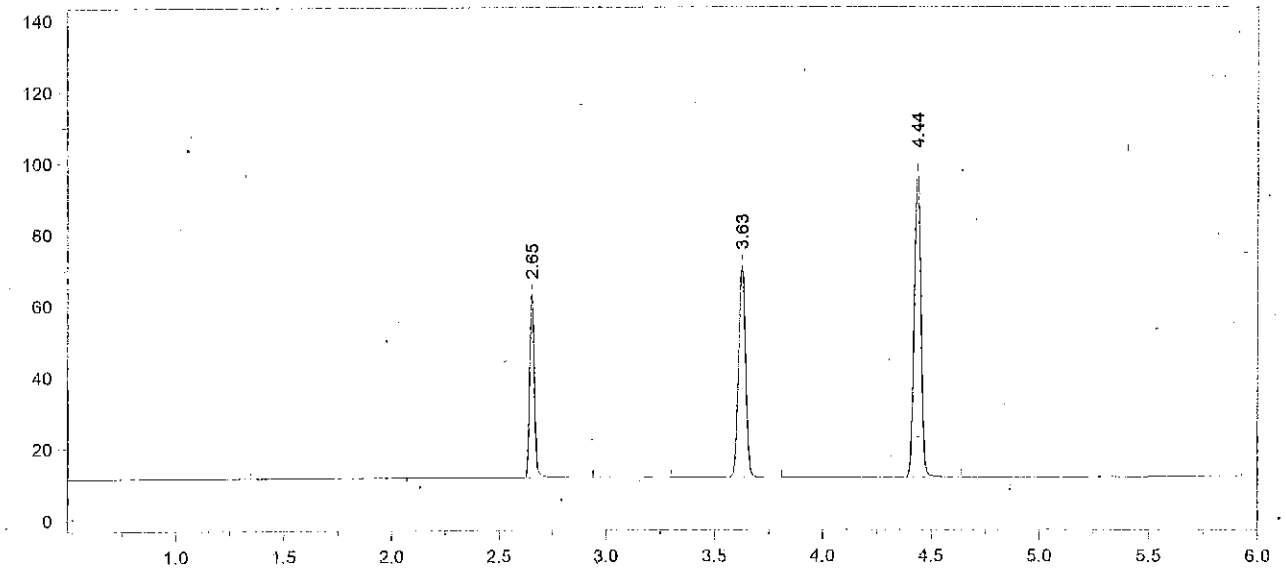


Format File Name = AlcoholVFL.FMT

Today's Date = 10/3/2013
Today's Time = 2:14:40 PM
Bound File Name = VFL10022013.0004.RAW
Sample Name = STD B
Date Taken = 10/3/2013 9:03:55 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10022013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	25067	0.0244 *
5	3.63	t-Butanol	155791	1.0294
6	4.43	n-Propanol	197910	1.0000

80
13-16-100 #4 10/14/13

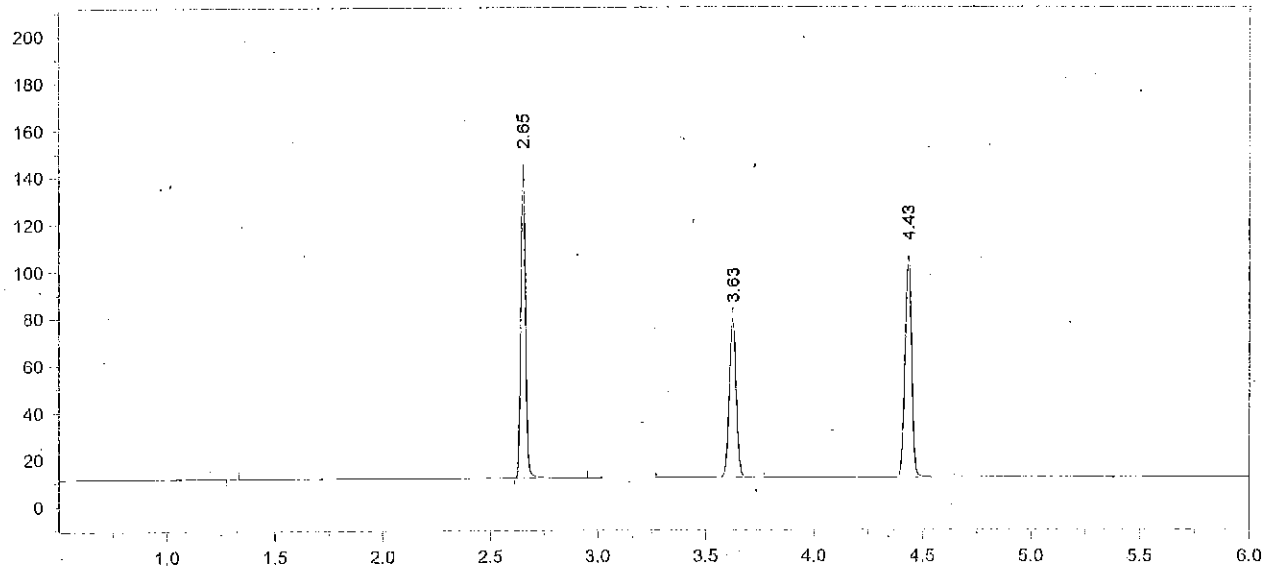


Format File Name = AlcoholVFL.FMT

Today's Date = 10/3/2013
Today's Time = 2:14:46 PM
Bound File Name = VFL10022013.0005.RAW
Sample Name = STD C
Date Taken = 10/3/2013 9:18:10 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10022013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	80509	0.0831*
4	3.63	t-Butanol	138118	0.9673
5	4.44	n-Propanol	186717	1.0000

13-16-100 81 10/14/13

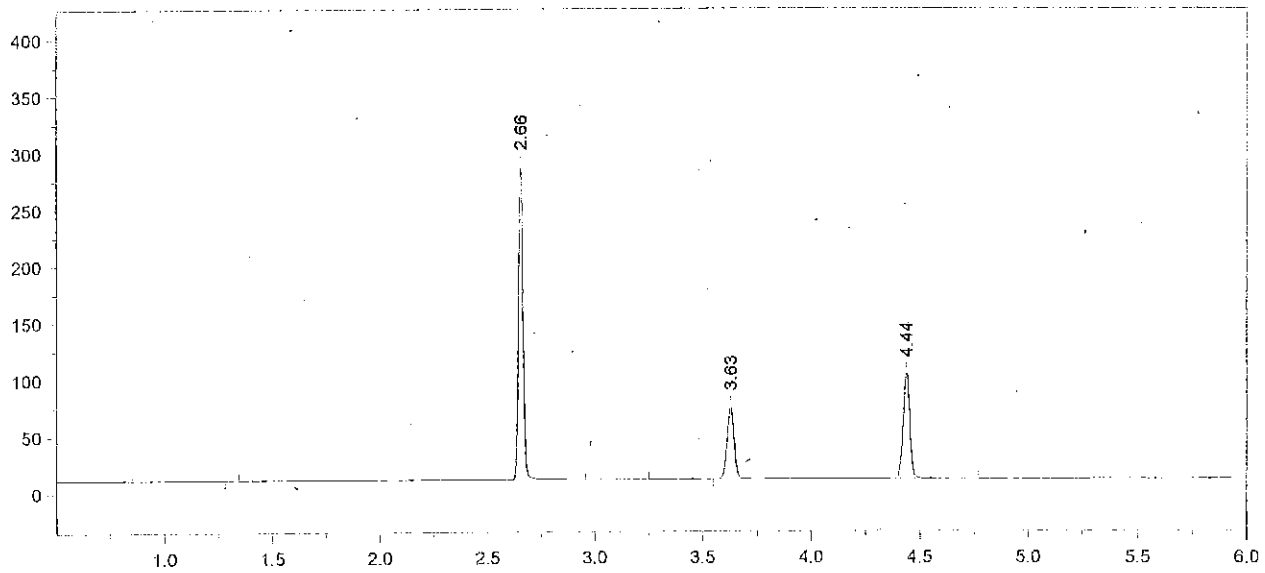


Format File Name = AlcoholVFL.FMT

Today's Date = 10/3/2013
Today's Time = 2:14:51 PM
Bound File Name = VFL10022013.0006.RAW
Sample Name = STD D
Date Taken = 10/3/2013 9:35:19 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10022013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	206038	0.1991 *
4	3.63	t-Butanol	156395	1.0249
5	4.43	n-Propanol	199545	1.0000

82
10/14/13



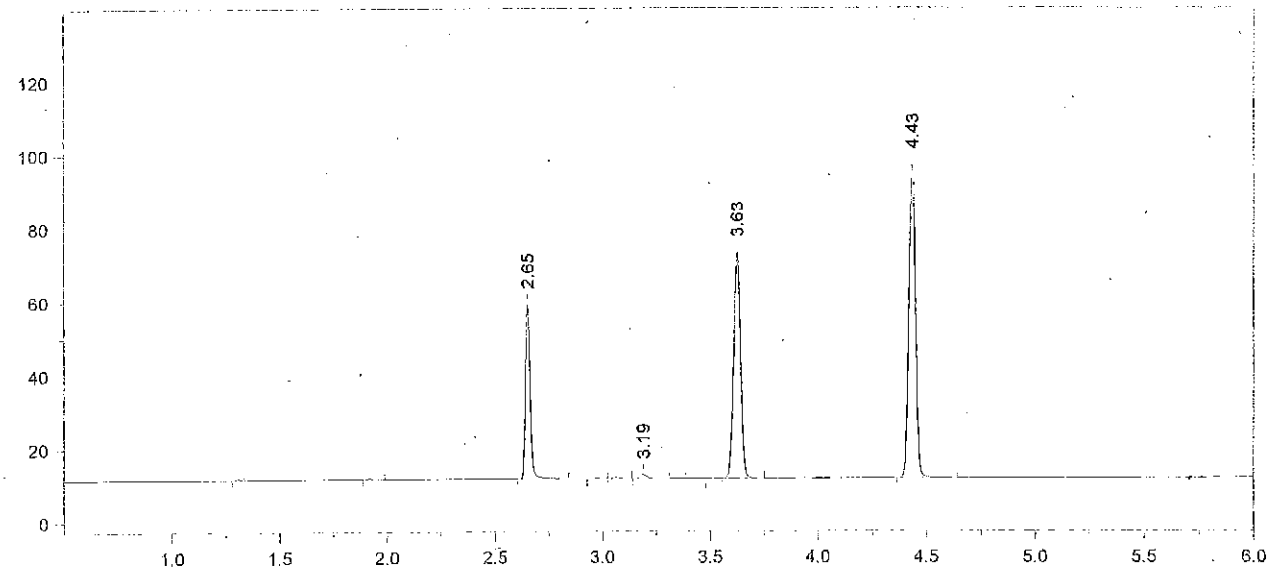
Format File Name = AlcoholVFL.FMT

Today's Date = 10/3/2013
Today's Time = 2:14:57 PM
Bound File Name = VFL10022013.0007.RAW
Sample Name = STD E
Date Taken = 10/3/2013 9:48:59 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10022013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	423372	0.4121 *
4	3.63	t-Butanol	147226	0.9722
5	4.44	n-Propanol	198039	1.0000

13-16-100 83 ~~47~~ 10/14/13 ar AB

Chrom Perfect Chromatogram Report

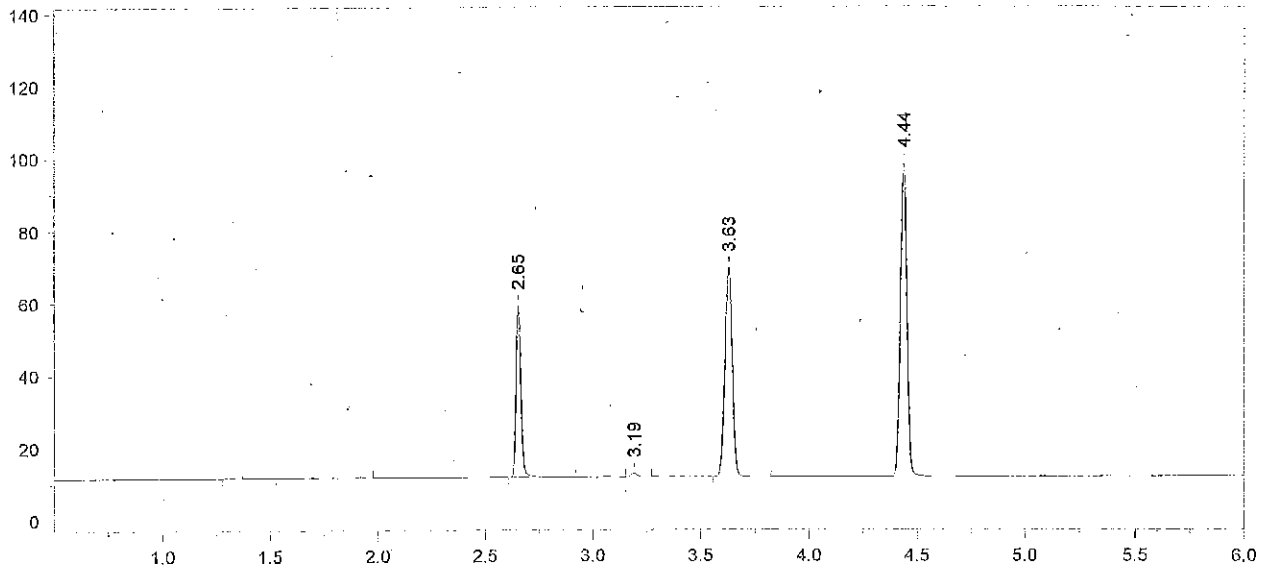


Format File Name = AlcoholVFL.FMT

Today's Date = 10/3/2013
Today's Time = 10:06:48 AM
Bound File Name = VFL10022013.0008.RAW
Sample Name = WB
Date Taken = 10/3/2013 10:06:43 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10022013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	74042	0.0784 *
6	3.19	Isopropanol	02052	<0.004
7	3.63	t-Butanol	141714	1.0177
8	4.43	n-Propanol	182106	1.0000

84 10/14/13



Format File Name = AlcoholVFL.FMT

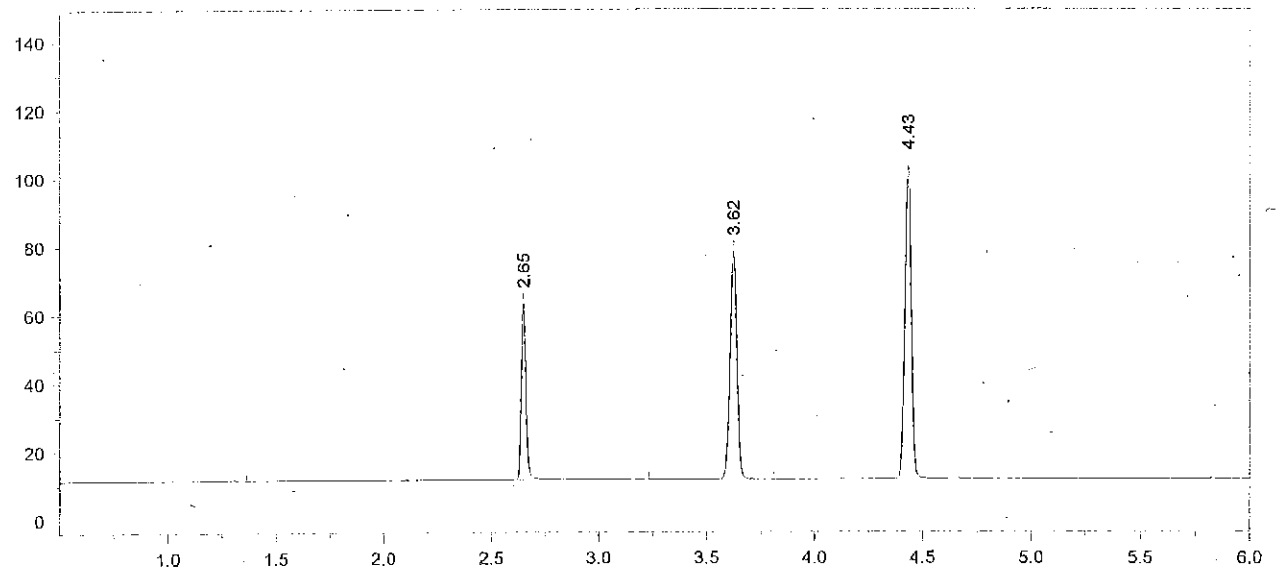
Today's Date = 10/3/2013
Today's Time = 10:20:13 AM
Bound File Name = VFL10022013.0009.RAW
Sample Name = WB
Date Taken = 10/3/2013 10:20:04 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10022013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	75021	0.0786 *
5	3.19	Isopropanol	01959	<0.004
6	3.63	t-Butanol	134107	0.9534
7	4.44	n-Propanol	183942	1.0000

Avg #8 + #9 = 0.078
RZM 10/3/13

WB: Cliniqa Lot # 1212090
Target value: 0.077
Acceptance range: 0.069 - 0.085
RZM 10/3/13

85 10/4/13



Format File Name = AlcoholVFL.FMT

Today's Date = 10/3/2013
Today's Time = 10:38:19 AM
Bound File Name = VFL10022013.0010.RAW
Sample Name = AQ QC
Date Taken = 10/3/2013 10:38:10 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10022013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	79937	0.0785
4	3.62	t-Butanol	154074	1.0263
5	4.43	n-Propanol	196326	1.0000

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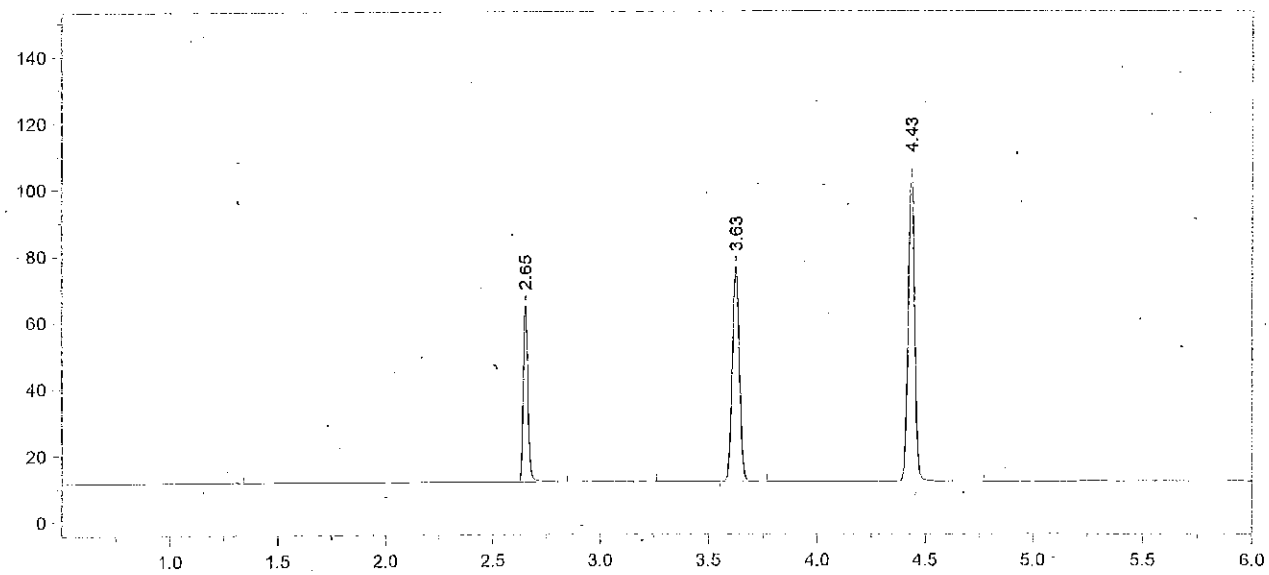


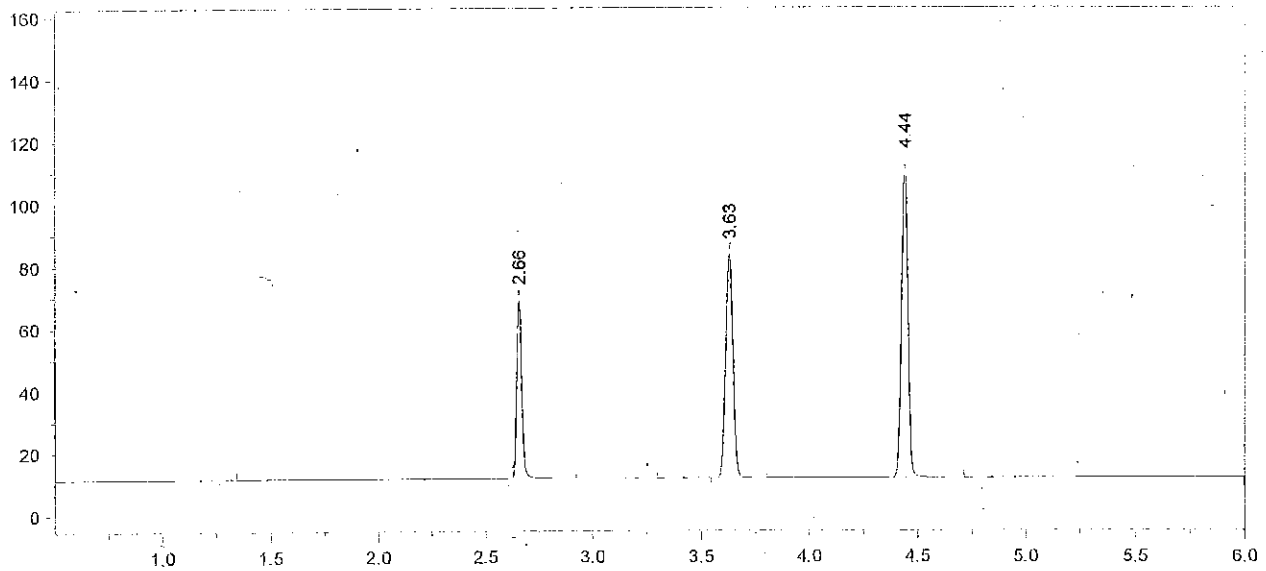
Format File Name = AlcoholVFL.FMT

Today's Date = 10/3/2013
Today's Time = 10:52:18 AM
Bound File Name = VFL10022013.0011.RAW
Sample Name = AQ QC
Date Taken = 10/3/2013 10:52:09 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10022013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	83049	0.0798 *
4	3.63	t-Butanol	149240	0.9724
5	4.43	n-Propanol	200707	1.0000

Avg #10 + #11 = 0.079
RKM 10/3/13

87 10/14/13
13-16-100 SV

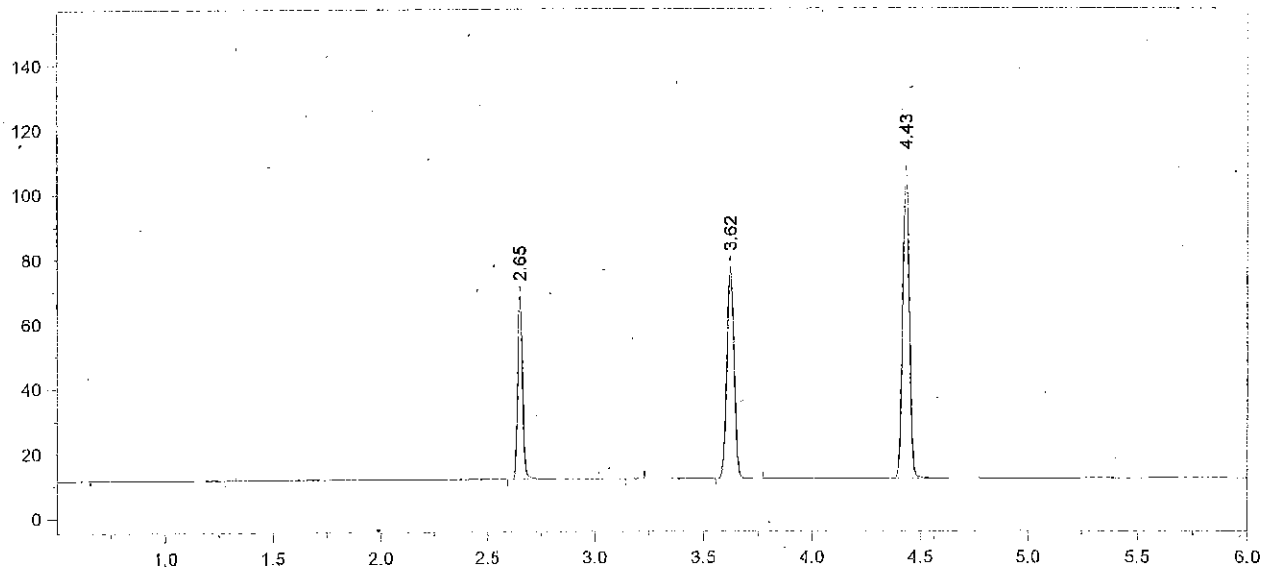


Format File Name = AlcoholVFL.FMT

Today's Date = 10/3/2013
Today's Time = 11:08:02 AM
Bound File Name = VFL10022013.0012.RAW
Sample Name = CCS
Date Taken = 10/3/2013 11:07:51 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10022013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	89723	0.0808 *
4	3.63	t-Butanol	165965	1.0139
5	4.44	n-Propanol	214063	1.0000

13-16-100 88 10/14/13



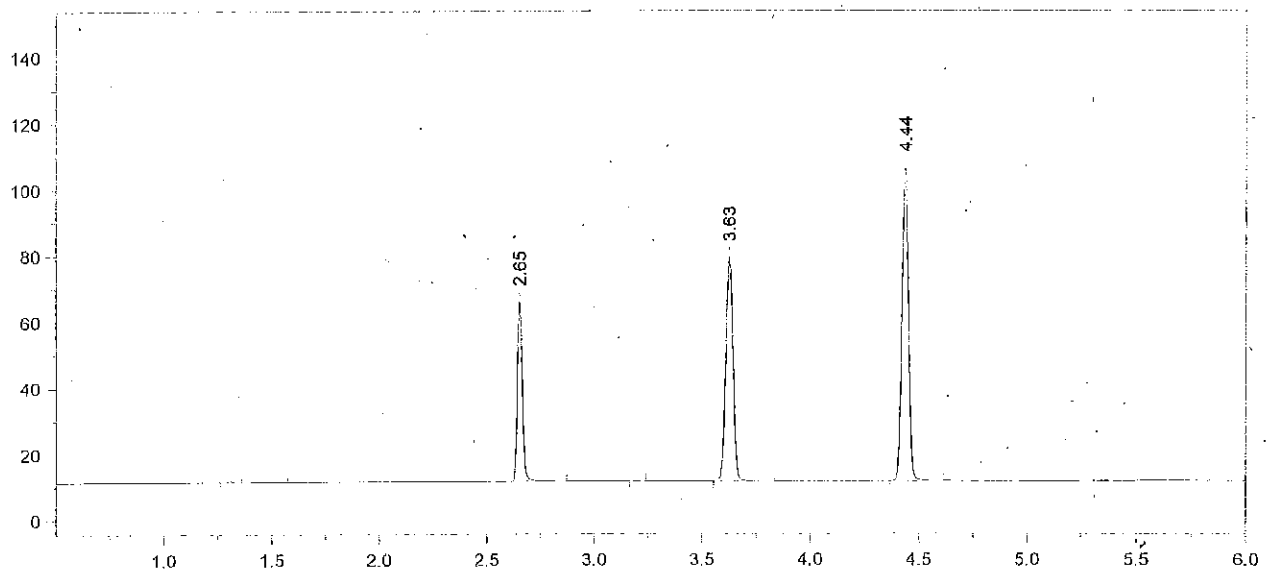
Format File Name = AlcoholVFL.FMT

Today's Date = 10/3/2013
Today's Time = 11:23:29 AM
Bound File Name = VFL10022013.0013.RAW
Sample Name = CCS
Date Taken = 10/3/2013 11:23:22 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10022013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	88153	0.0826 *
4	3.62	t-Butanol	151786	0.9649
5	4.43	n-Propanol	205718	1.0000

Avg #12 + #13 = 0.082
10/3/13

13-16-100 ~~58~~ 89 10/14/13

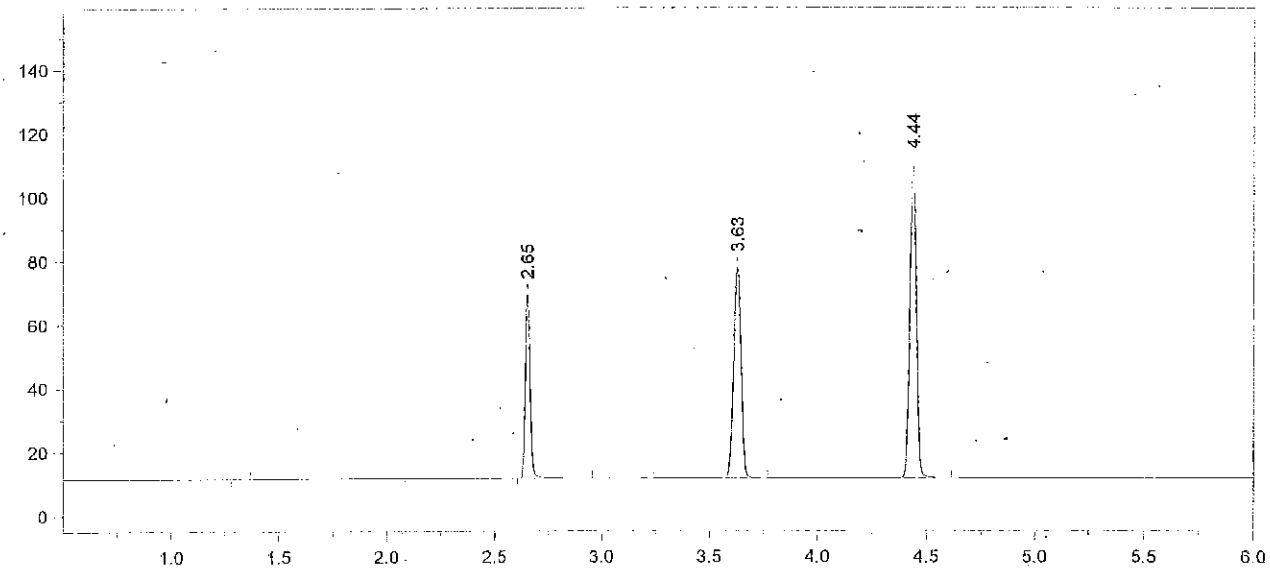


Format File Name = AlcoholVFL.FMT

Today's Date = 10/3/2013
Today's Time = 12:41:15 PM
Bound File Name = VFL10022013.0018.RAW
Sample Name = CCS
Date Taken = 10/3/2013 12:41:07 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10022013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	84498	0.0810 *
4	3.63	t-Butanol	156689	1.0185
5	4.44	n-Propanol	201188	1.0000

90 10/14/13



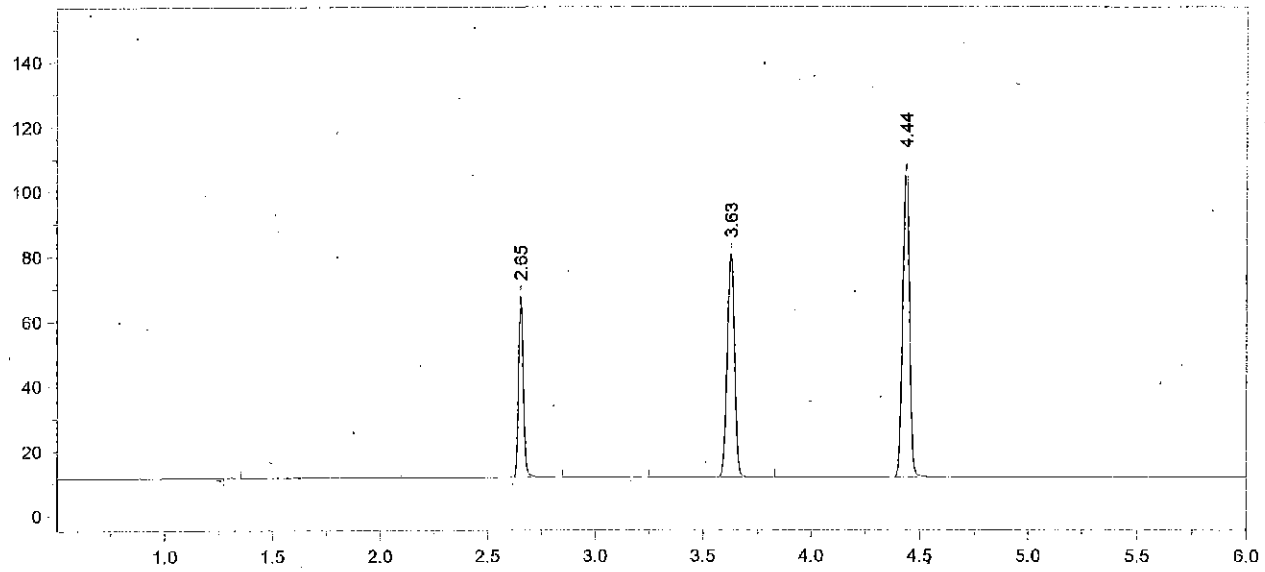
Format File Name = AlcoholVFL.FMT

Today's Date = 10/3/2013
Today's Time = 12:55:10 PM
Bound File Name = VFL10022013.0019.RAW
Sample Name = CCS
Date Taken = 10/3/2013 12:55:05 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10022013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	89935	0.0831*
4	3.63	t-Butanol	153142	0.9603
5	4.44	n-Propanol	208543	1.0000

Avg #18 + #19 = 0.082
RM 10/3/13

91
55
10/14/13

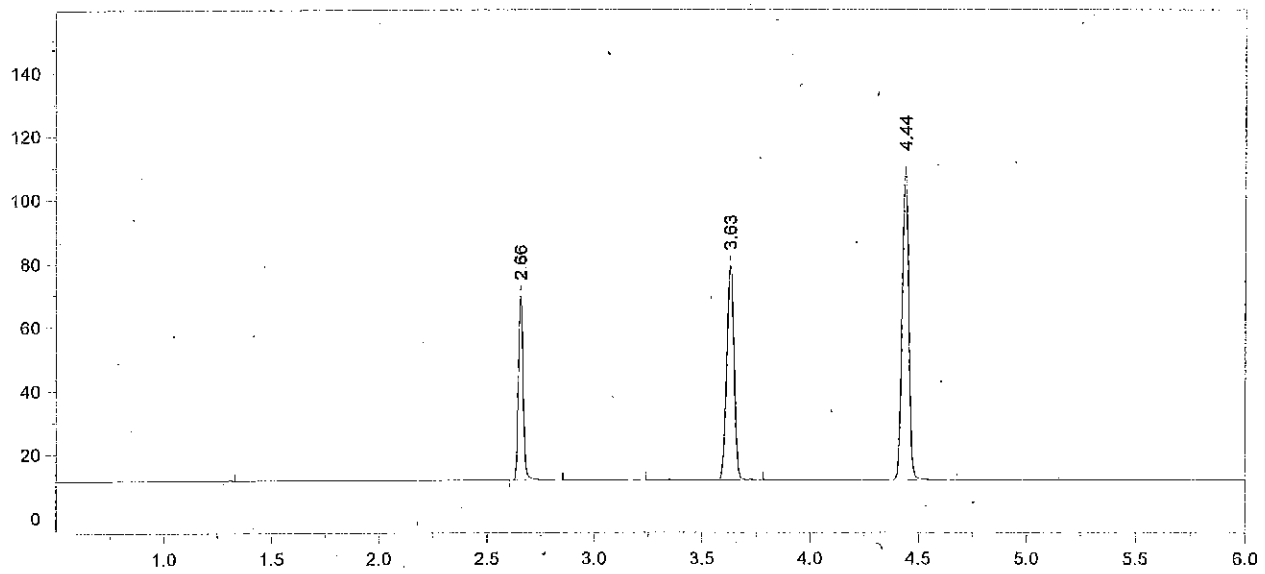


Format File Name = AlcoholVFL.FMT

Today's Date = 10/3/2013
Today's Time = 3:18:18 PM
Bound File Name = VFL10022013.0028.RAW
Sample Name = CCS
Date Taken = 10/3/2013 3:18:08 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10022013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	86773	0.0817
4	3.63	t-Butanol	159623	1.0195
5	4.44	n-Propanol	204748	1.0000

92 10/14/13



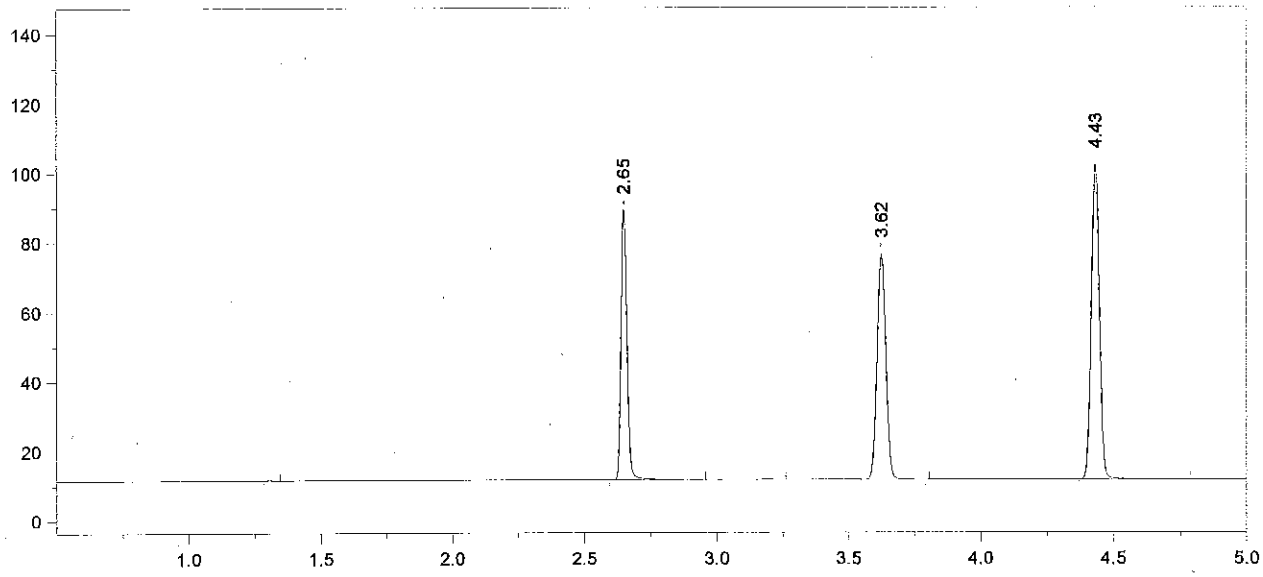
Format File Name = AlcoholVFL.FMT

Today's Date = 10/3/2013
Today's Time = 3:32:12 PM
Bound File Name = VFL10022013.0029.RAW
Sample Name = CCS
Date Taken = 10/3/2013 3:32:07 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10022013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	89943	0.0825 *
4	3.63	t-Butanol	155701	0.9691
5	4.44	n-Propanol	210113	1.0000

Avg #28 + #29 = 0.082
RZZ 10/3/13

93 10/14/13



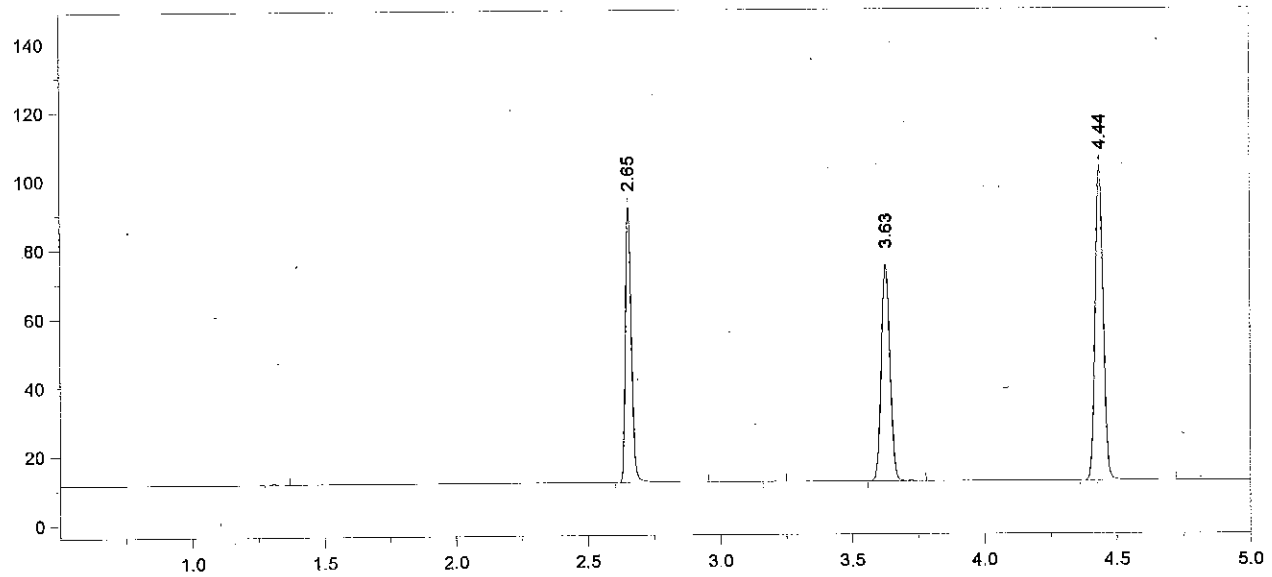
Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/3/2013
Today's Time = 3:49:44 PM
Bound File Name = VFL10022013.0030.RAW
Sample Name = RLM 0.1
Date Taken = 10/3/2013 3:49:36 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10022013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	120353	0.1203	0.0982
4	3.62	t-Butanol	150586	1.0210	0.8333
5	4.43	n-Propanol	192880	1.0000	0.8162

94

10/14/13

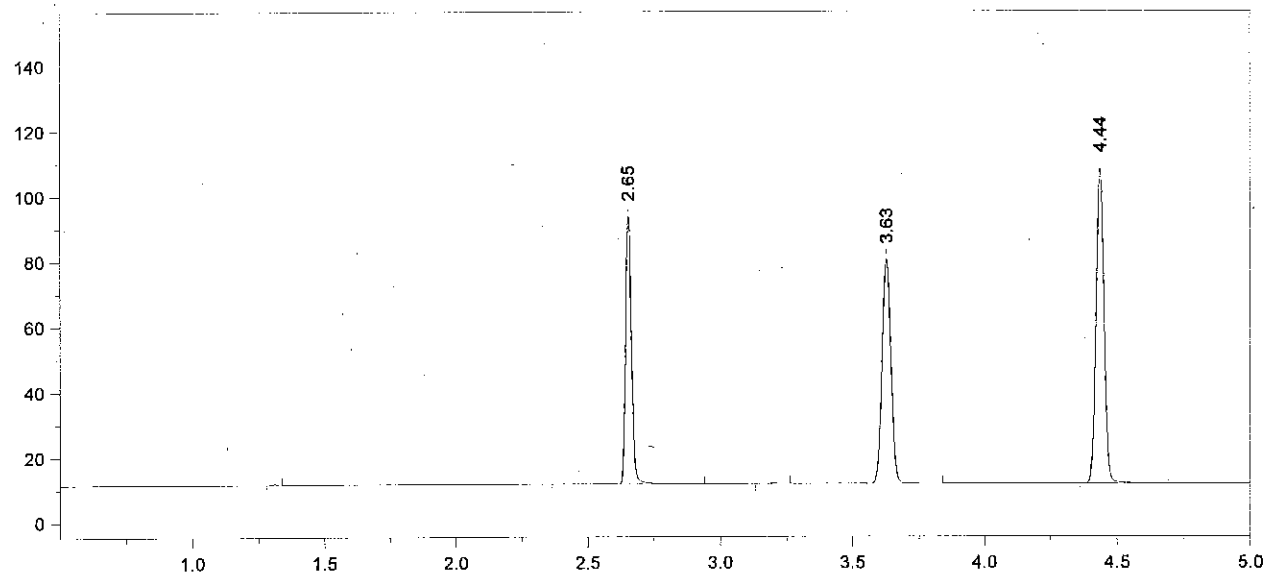


Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/3/2013
Today's Time = 4:03:33 PM
Bound File Name = VFL10022013.0031.RAW
Sample Name = RLM 0.1
Date Taken = 10/3/2013 4:03:28 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10022013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	123896	0.1221	0.0996
4	3.63	t-Butanol	145429	0.9719	0.7932
5	4.44	n-Propanol	195686	1.0000	0.8162

95 10/14/13

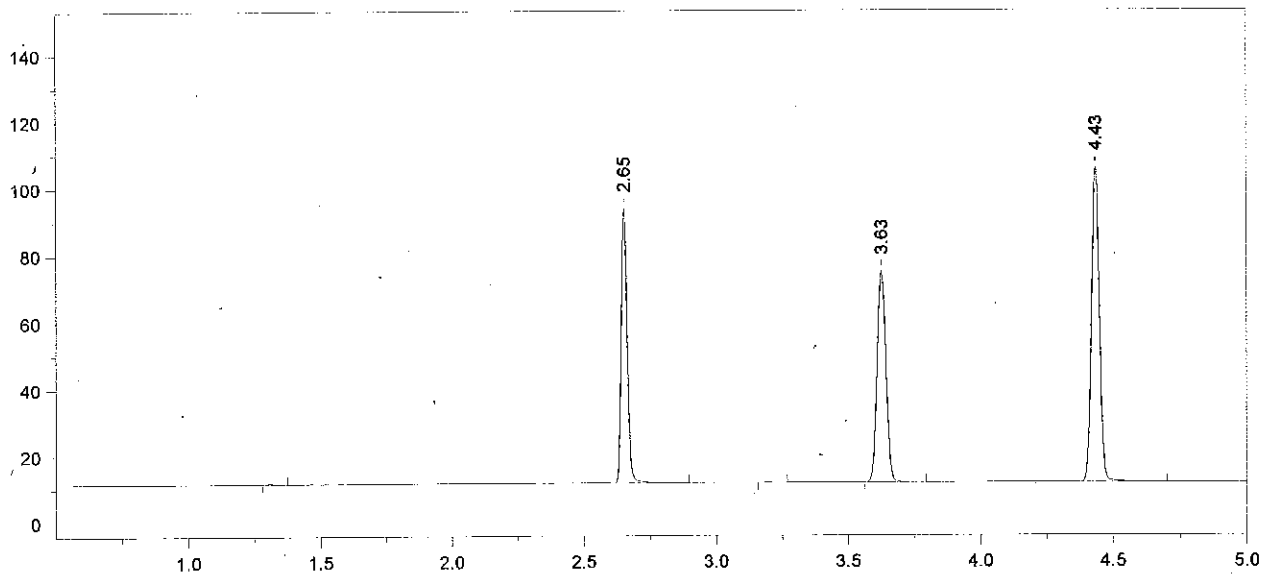


Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/3/2013
Today's Time = 4:19:27 PM
Bound File Name = VFL10022013.0032.RAW
Sample Name = RLM 0.1
Date Taken = 10/3/2013 4:19:22 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10022013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	128160	0.1204	0.0982
4	3.63	t-Butanol	159172	1.0141	0.8277
5	4.44	n-Propanol	205253	1.0000	0.8162

96 10/14/13



Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/3/2013
Today's Time = 4:34:50 PM
Bound File Name = VFL10022013.0033.RAW
Sample Name = RLM 0.1
Date Taken = 10/3/2013 4:34:45 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10022013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	127745	0.1229	0.1003
4	3.63	t-Butanol	147141	0.9604	0.7839
5	4.43	n-Propanol	200346	1.0000	0.8162

97

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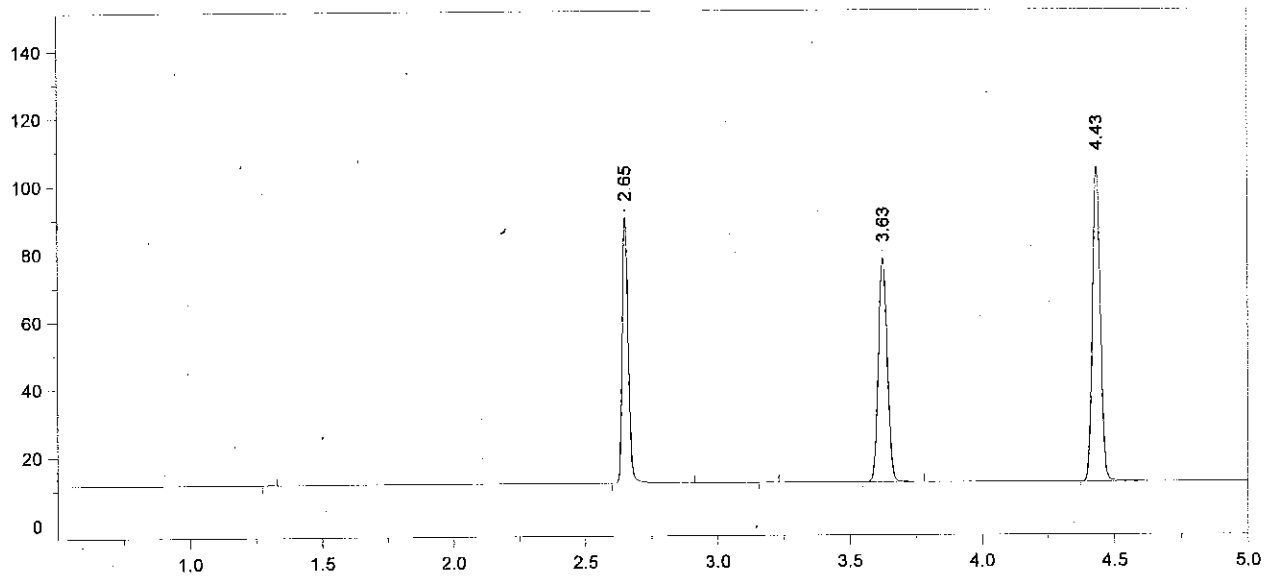

Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/3/2013
Today's Time = 4:50:59 PM
Bound File Name = VFL10022013.0034.RAW
Sample Name = RLM 0.1
Date Taken = 10/3/2013 4:50:54 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10022013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	122701	0.1204	0.0983
4	3.63	t-Butanol	153433	1.0216	0.8339
5	4.43	n-Propanol	196395	1.0000	0.8162

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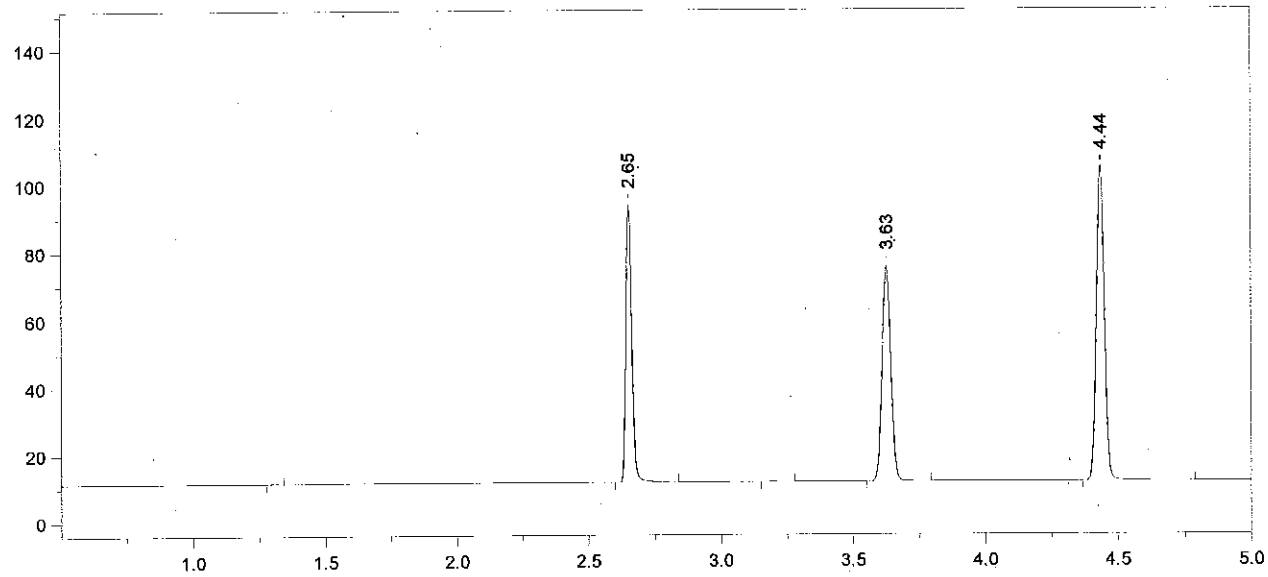
10/14/13

Chrom Perfect Chromatogram Report



Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/3/2013
Today's Time = 5:05:31 PM
Bound File Name = VFL10022013.0035.RAW
Sample Name = RLM 0.1
Date Taken = 10/3/2013 5:05:22 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10022013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	127220	0.1234	0.1007
4	3.63	t-Butanol	147044	0.9674	0.7896
5	4.44	n-Propanol	198779	1.0000	0.8162

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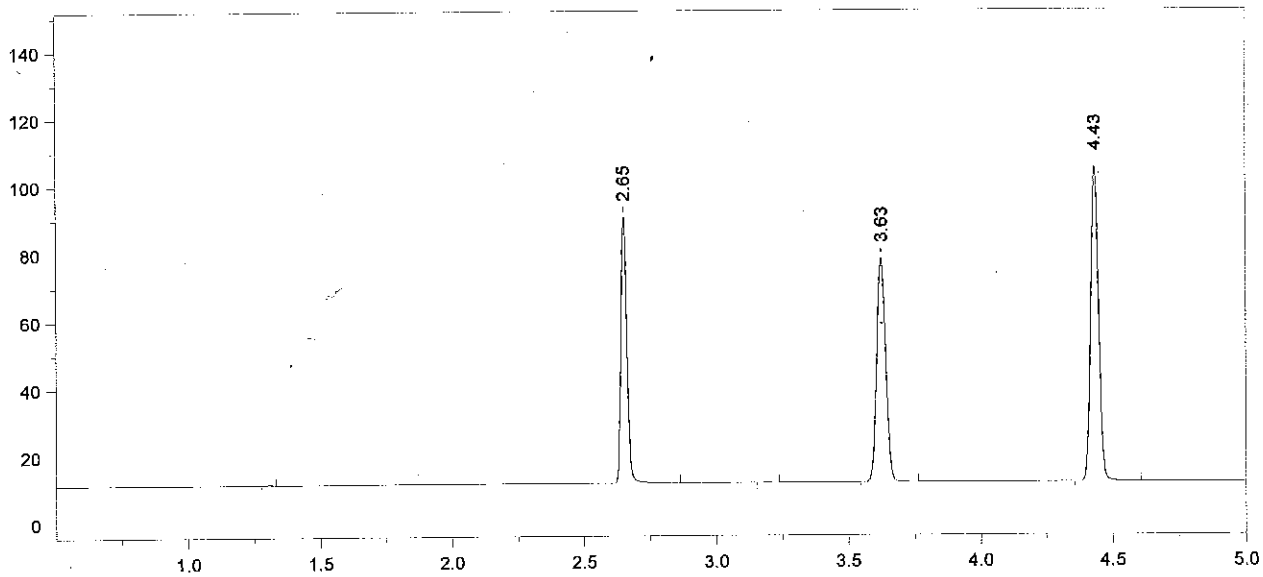

Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/3/2013
Today's Time = 5:22:32 PM
Bound File Name = VFL10022013.0036.RAW
Sample Name = RLM 0.1
Date Taken = 10/3/2013 5:22:23 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10022013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	122816	0.1203	0.0982
4	3.63	t-Butanol	153597	1.0205	0.8329
5	4.43	n-Propanol	196825	1.0000	0.8162

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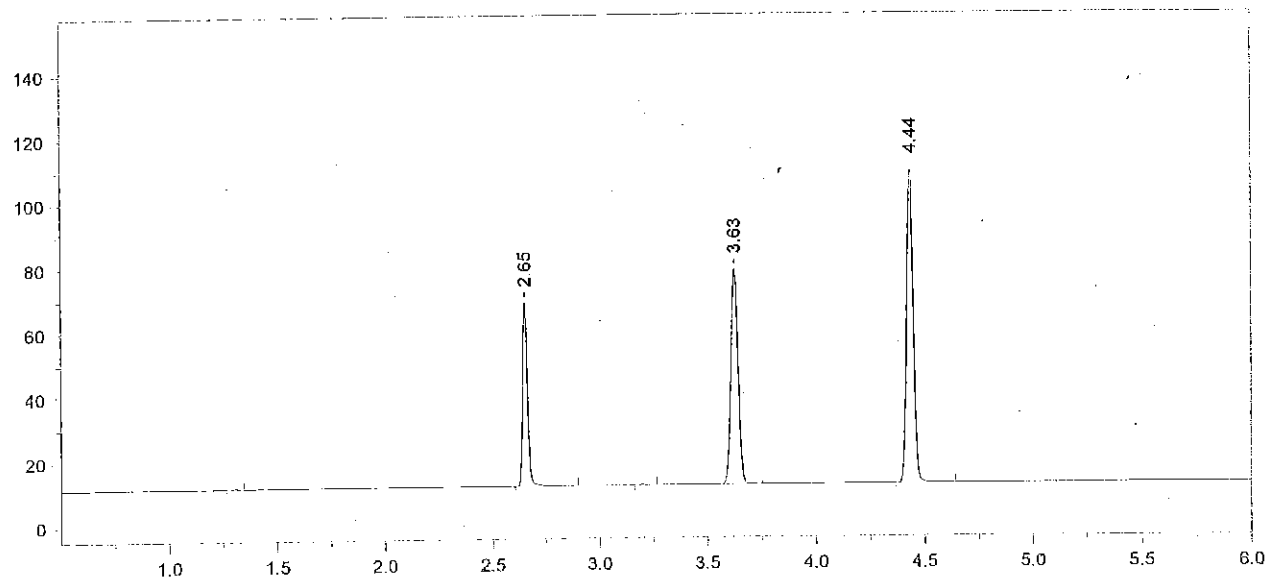
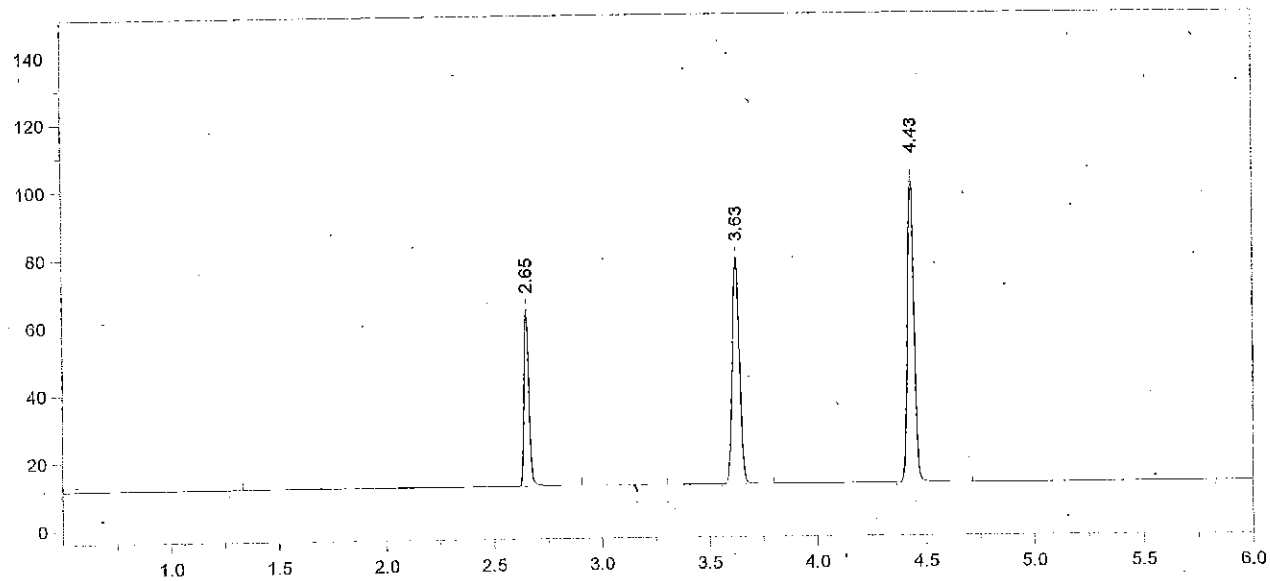


Format File Name = AlcoholVFL.FMT

Today's Date = 10/3/2013
Today's Time = 5:36:06 PM
Bound File Name = VFL10022013.0037.RAW
Sample Name = CCS
Date Taken = 10/3/2013 5:36:01 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10022013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	88741	0.0826*
4	3.63	t-Butanol	154319	0.9745
5	4.44	n-Propanol	207084	1.0000

13-16-100 ~~to 5~~ 10/14/13 DLB



Format File Name = AlcoholVFL.FMT

Today's Date = 10/3/2013
Today's Time = 5:53:58 PM
Bound File Name = VFL10022013.0038.RAW
Sample Name = CCS
Date Taken = 10/3/2013 5:53:50 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10022013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	82341	0.0805
4	3.63	t-Butanol	155644	1.0328
5	4.43	n-Propanol	197067	1.0000

Avg #37 + #38 = 0.081
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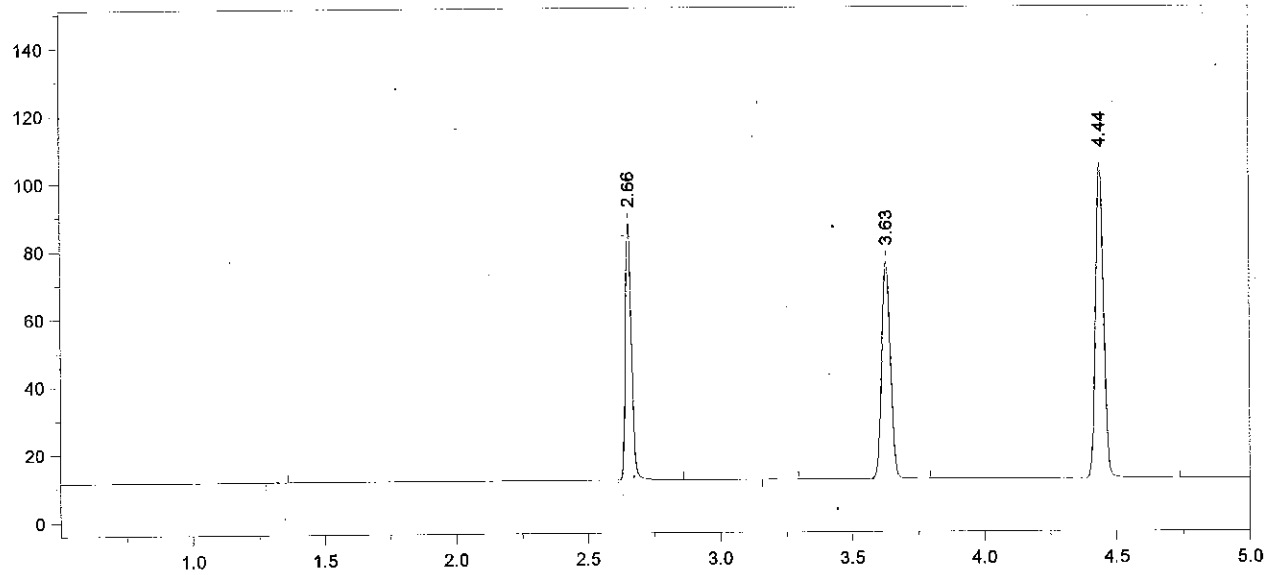

Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/3/2013
Today's Time = 6:07:46 PM
Bound File Name = VFL10022013.0039.RAW
Sample Name = ALB 0.1
Date Taken = 10/3/2013 6:07:41 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10022013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	118328	0.1149	0.0938
4	3.63	t-Butanol	148886	0.9806	0.8004
5	4.44	n-Propanol	198553	1.0000	0.8162

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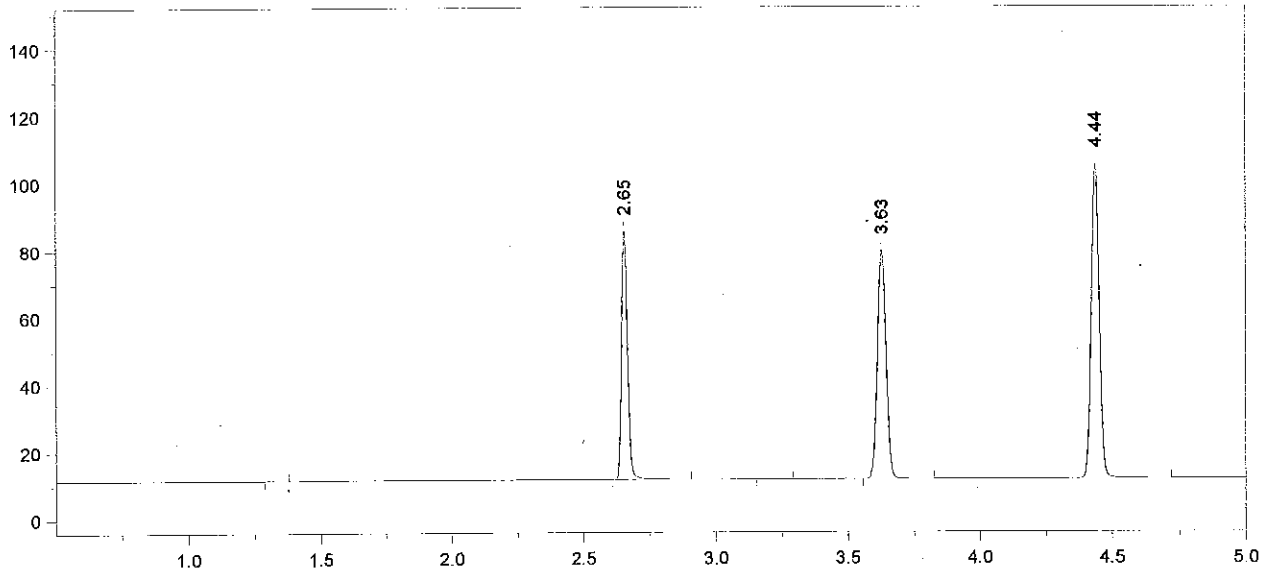

Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/3/2013
Today's Time = 6:25:21 PM
Bound File Name = VFL10022013.0040.RAW
Sample Name = ALB 0.1
Date Taken = 10/3/2013 6:25:17 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10022013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	115577	0.1121	0.0915
4	3.63	t-Butanol	157792	1.0382	0.8474
5	4.44	n-Propanol	198749	1.0000	0.8162

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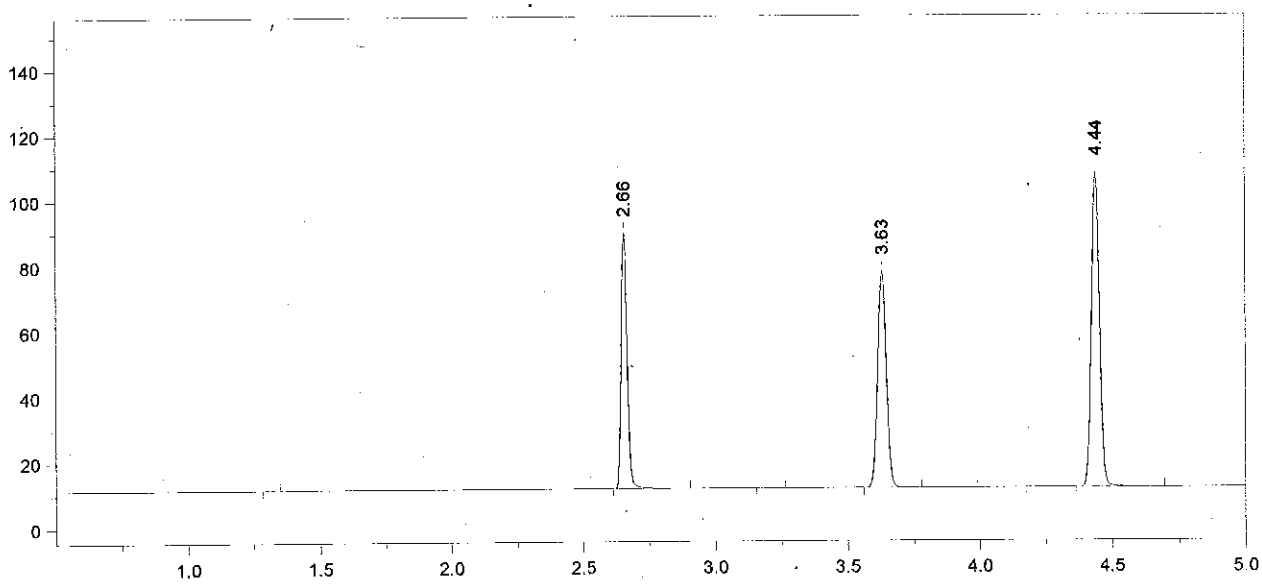
Chrom Perfect Chromatogram Report



Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/3/2013
Today's Time = 6:39:15 PM
Bound File Name = VFL10022013.0041.RAW
Sample Name = ALB 0.1
Date Taken = 10/3/2013 6:39:10 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10022013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	122020	0.1149	0.0938
4	3.63	t-Butanol	153189	0.9782	0.7984
5	4.44	n-Propanol	204784	1.0000	0.8162

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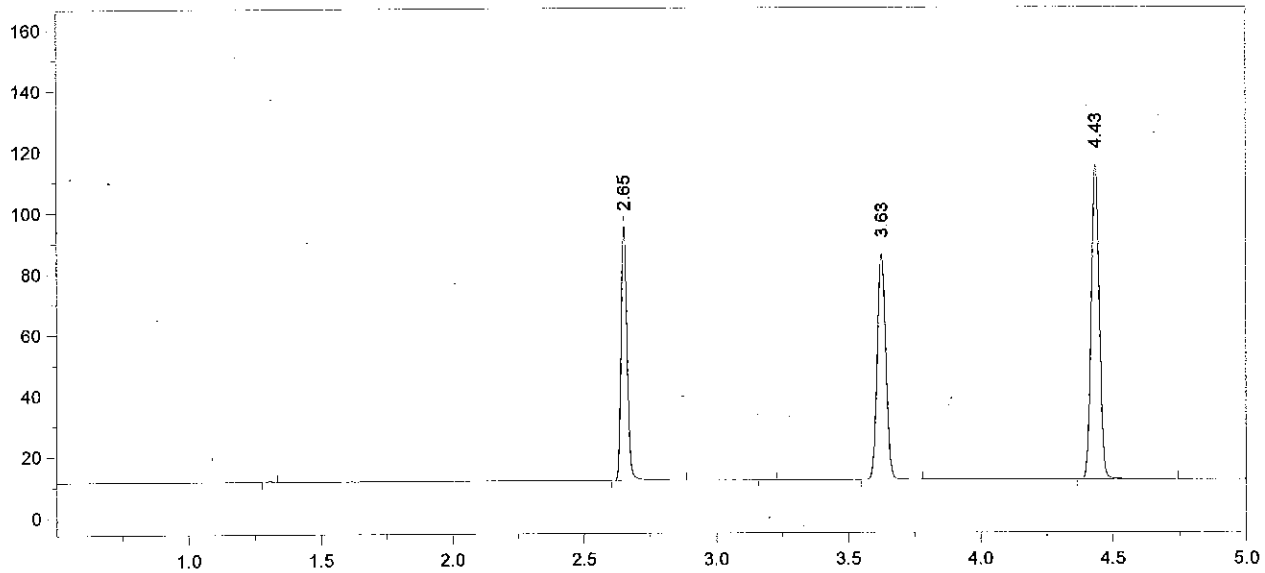

Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/3/2013
Today's Time = 6:55:12 PM
Bound File Name = VFL10022013.0042.RAW
Sample Name = ALB 0.1
Date Taken = 10/3/2013 6:55:06 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10022013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	129967	0.1135	0.0927
4	3.63	t-Butanol	171479	1.0160	0.8293
5	4.43	n-Propanol	220704	1.0000	0.8162

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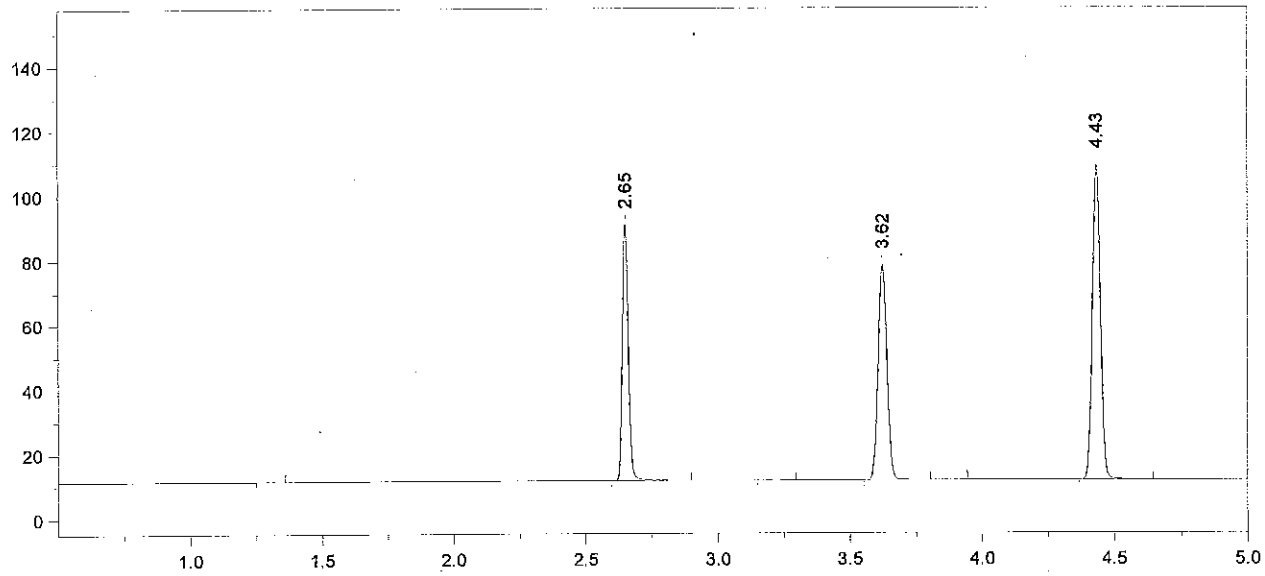

Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/3/2013
Today's Time = 7:10:42 PM
Bound File Name = VFL10022013.0043.RAW
Sample Name = ALB 0.1
Date Taken = 10/3/2013 7:10:37 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10022013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	123223	0.1155	0.0943
4	3.62	t-Butanol	154044	0.9794	0.7993
5	4.43	n-Propanol	205693	1.0000	0.8162

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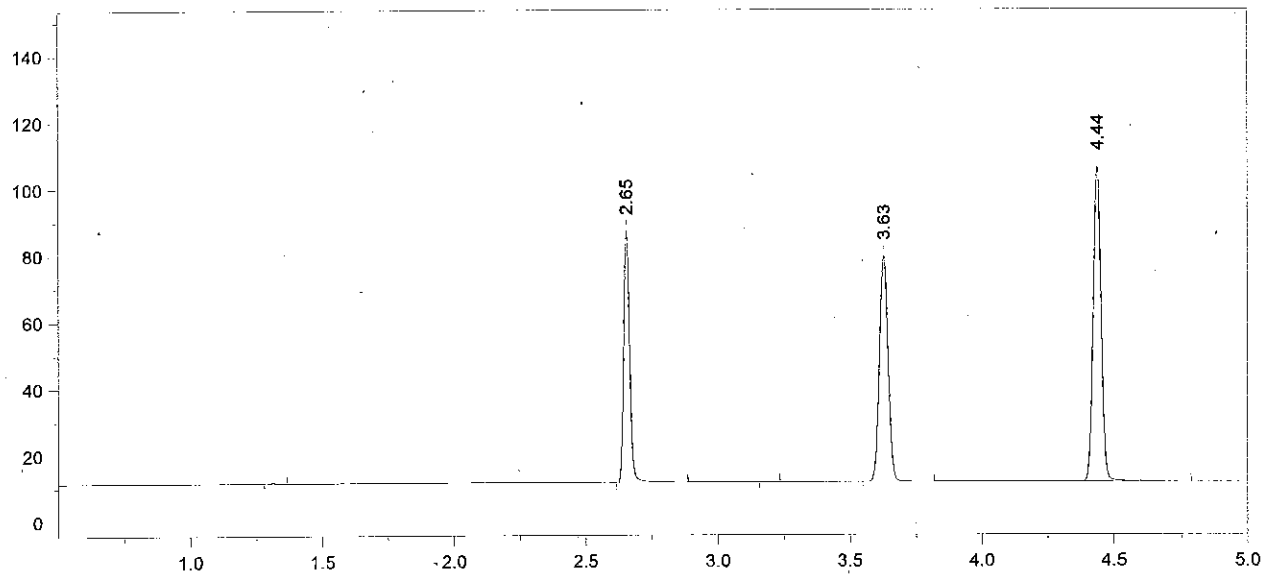

Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/3/2013
Today's Time = 7:26:40 PM
Bound File Name = VFL10022013.0044.RAW
Sample Name = ALB 0.1
Date Taken = 10/3/2013 7:26:33 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10022013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	117701	0.1131	0.0923
4	3.63	t-Butanol	157809	1.0284	0.8393
5	4.44	n-Propanol	200679	1.0000	0.8162

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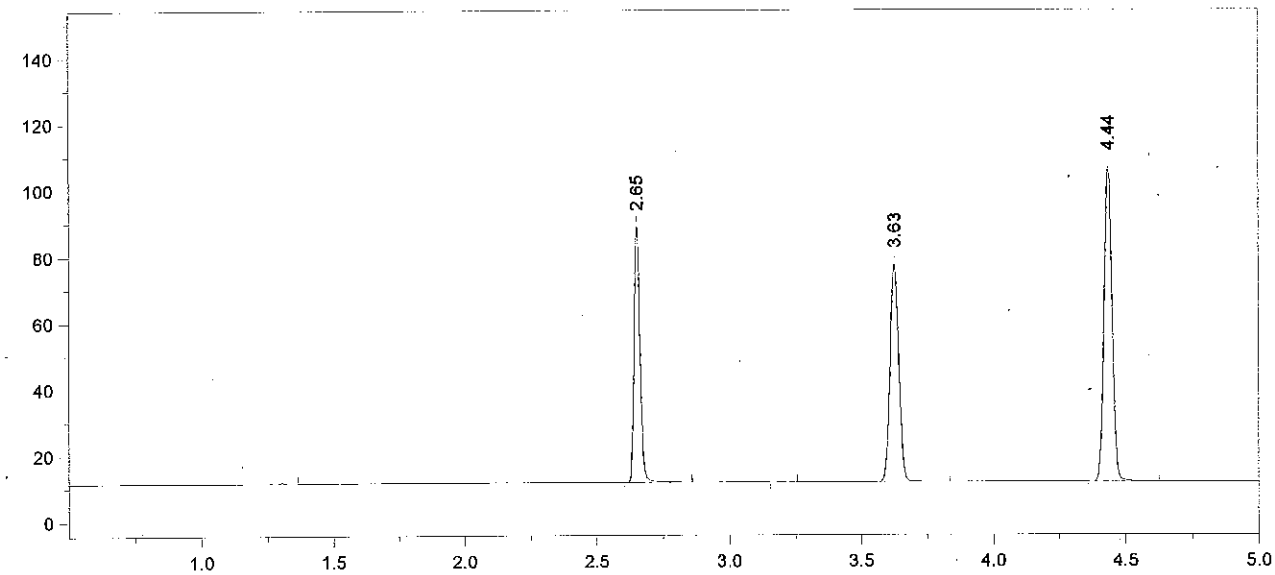
Chrom Perfect Chromatogram Report



Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/3/2013
Today's Time = 7:41:03 PM
Bound File Name = VFL10022013.0045.RAW
Sample Name = ALB 0.1
Date Taken = 10/3/2013 7:40:59 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL10022013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	119218	0.1138	0.0929
4	3.63	t-Butanol	152139	0.9848	0.8038
5	4.44	n-Propanol	202023	1.0000	0.8162

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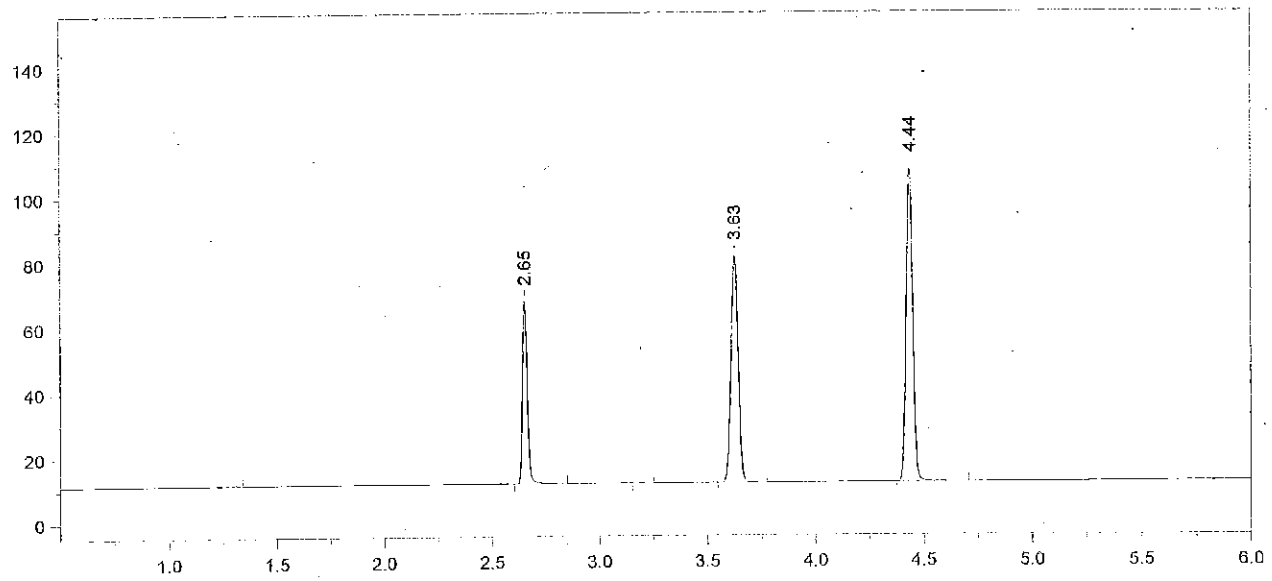

Format File Name = AlcoholVFL.FMT

Today's Date = 10/3/2013
Today's Time = 7:56:29 PM
Bound File Name = VFL10022013.0046.RAW
Sample Name = CCS
Date Taken = 10/3/2013 7:56:20 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10022013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	86757	0.0814
4	3.63	t-Butanol	160531	1.0219
5	4.44	n-Propanol	205436	1.0000

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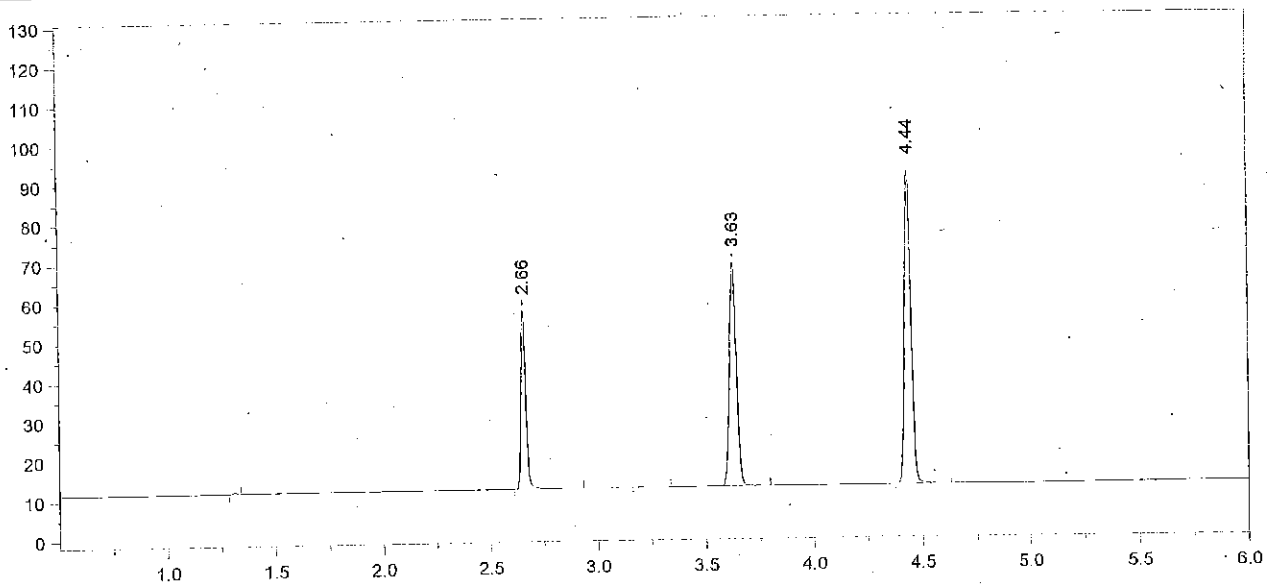
Chrom Perfect Chromatogram Report



Format File Name = AlcoholVFL.FMT

Today's Date = 10/3/2013
Today's Time = 8:11:51 PM
Bound File Name = VFL10022013.0047.RAW
Sample Name = CCS
Date Taken = 10/3/2013 8:11:45 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL10022013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	70968	0.0812 *
4	3.63	t-Butanol	130911	1.0159
5	4.44	n-Propanol	168515	1.0000

Avg #46 + #47 = 0.081
[illegible] 10/8/13

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