VERMONT FORENSIC LABORATORY

PO BOX 47
WATERBURY, VERMONT 05676-0047
TEL: 802-244-8788
FAX: 802-241-5557
http://vfl.vermont.gov

Certificate of Analysis of DataMaster External Standard Solution

On 6/24/2013, an ethanol solution was prepared by Rebecca Mead for use as a DataMaster External Standard solution. The solution was prepared per standard laboratory practice and assigned the lot number 13-13-100 and an expiration date of 6/24/2014.

On 6/24/2013 and 6/25/2013, the solution was analyzed against calibration VFL06242013 and VFL06252013. 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 0.100 g/210L simulated breath ethanol concentration and approved for use as a DataMaster External Standard solution.

Dated at Waterbury, Vermont on Wednesday, June 26, 2013.

Rebecca Mead

Rebecca Mead

0.1 External Standard Solution 20L
Lot # 13-13-100
Prepared 06/24/2013 by RLM
Exp 06/24/2014

RLM CAL VFL06242013
RLM/ALB Vials
Analyzed on 06/24/2013

0.0983	rlm
0.1002	
0.0981	
0.1002	
0.0980	
0.1004	
0.0990	
0.0996	alb
0.0996	
0.1019	
0.0997	
0.1027	
0.1004	
0.1022	

Ave. = 0.1000
Std Dev. = 0.0015
Range = 0.0980-0.1027

RLM CAL VFL06252013
RLM/ALB Vials
Analyzed on 06/25/2013

0.0993	rlm
0.1009	
0.0988	
0.1004	
0.0989	
0.1007	
0.0979	
0.1006	alb
0.0981	
0.1009	
0.0998	
0.1013	
0.0981	
0.1024	

Ave. = 0.0999
Std Dev. = 0.0014
Range = 0.0979-0.1024

Total Values from Both Runs

Average	Mean
0.0983	0.0979
0.1002	0.0980
0.0981	0.0981
0.1002	
0.0980	
0.1004	0.0983
0.0990	0.0988
0.0996	0.0989
0.0996	0.0990
0.1019	0.0993
0.0997	0.0996
0.1027	
0.1004	0.0997
0.1022	0.0998
0.0993	0.1002
0.1009	
0.0988	0.1004
0.1004	
0.0989	
0.1007	0.1006
0.0979	0.1007
0.1006	0.1009
0.0981	
0.1009	0.1013
0.0998	0.1019
0.1013	0.1022
0.0981	0.1024
0.1024	0.1027

Ave. =	0.0999
Avg Std Dev. =	0.0014
Mean =	0.1000
Mean Std Dev. =	0.0015
Range =	0.0979-0.1027
RPD =	4.80%

6/27/2013

Headspace Alcohol Analysis Standards Coversheet

Analyst: RLM Date: 6/24/13

6/27/2013

Calibration Standards:

Lot ID: ES-01182013 Preparation Date: 01/18/2013 Expiration Date: 4/18/2013

	Standard A	Standard B	Standard C	Standard D	Standard E	Calibration Check
% Ethanol (w/v)	0.005	0.022	0.085	0.205	0.409	0.085
Acceptance Range (± 10%)	0.006	0.024	0.094	0.225	0.450	0.094
	0.004	0.020	0.077	0.184	0.368	0.077

(c)

Control Sample:

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

Calibration and Control Sample Data:

Vial No.	Sample Identification		Result	In Range?	Comments
1	Blank		<0.005	(Y) N	
2	Compound Retention Times:			N/A	
		Acetaldehyde	1.91		
		Methanol	2.01		
		Ethanol	2.65		
		Acetone	3.05		
		Isopropanol	3.19		
		T- butanol	3.62		
		n-propanol	4.43		
3	Standard A		0.006	(Y) N	
4	Standard B		0.022	(Y) N	
5	Standard C		0.084	(Y) N	
6	Standard D		0.200	(Y) N	
7	Standard E		0.404	(Y) N	
8	Aqueous QC		0.0790	(Y) N	Avg = 0.079 (99% recovery) ✓
9	Aqueous QC		0.0797	(Y) N	

13-13-100 2 RLM

File Name: C:\Methods\VFL06242013.CAL
Version: 7

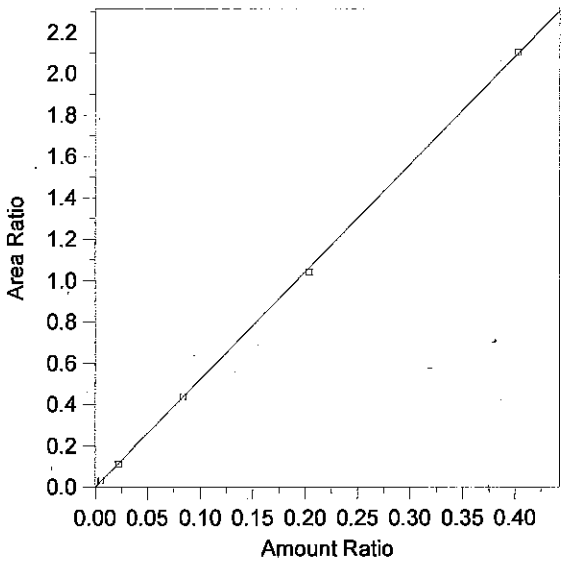
Creator:
Description:
Reason for change:

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:	2.653 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 = 5.201148 X + 0

Linear fit with equal weighting, forced to origin

Coefficient of determination:	0.9998323
Average error:	2.027%
Average CF:	5.242737
RSD:	3.111%

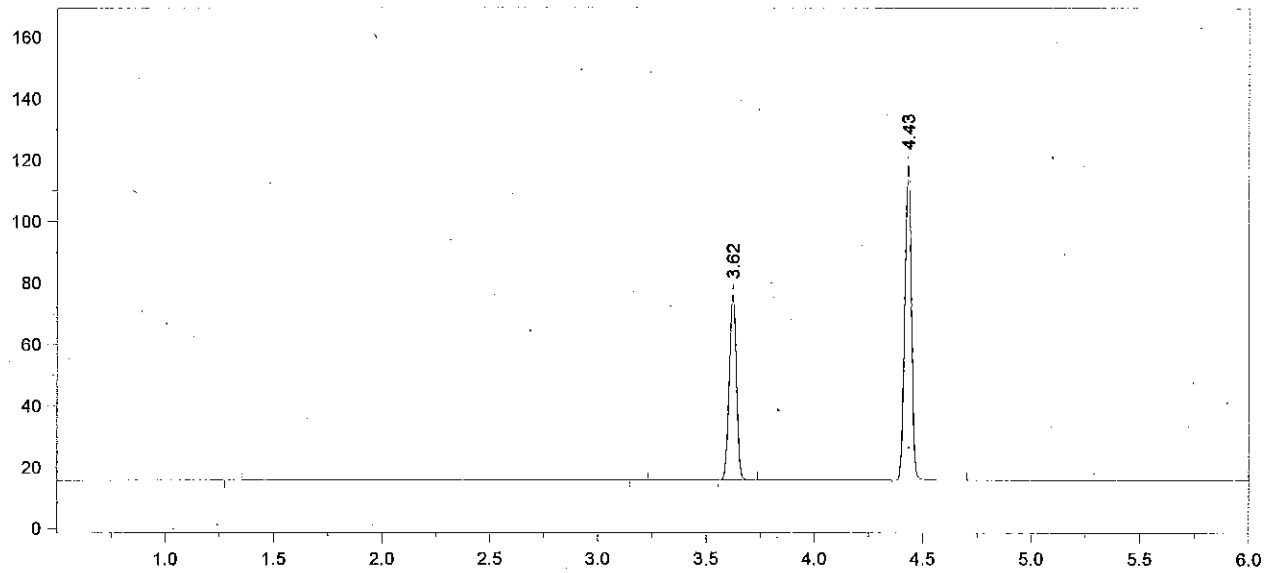
Level	Amount	Response	Cal Factor	Error, %	Amount Ratio	Response Ratio	Source	Date and time
1	(0.087)	(85146)	--	--	0.087	85146	Manual	8/8/2012 7:53:22 AM
2	0.0055	6152.984	1118724	6.093	0.0055	3.034942E-02	C:\Alcohol Data\VFL06242013\VFL06242013.0003.BND	6/24/2013 4:45:17 PM
3	0.0221	25035.93	1132848	-1.202	0.0221	0.1135633	C:\Alcohol Data\VFL06242013\VFL06242013.0004.BND	6/24/2013 5:02:52 PM
4	0.084	90433.62	1076591	0.515	0.084	0.4391446	C:\Alcohol Data\VFL06242013\VFL06242013.0005.BND	6/24/2013 5:16:51 PM
5	0.2037	216107.7	1060912	-1.865	0.2037	1.039714	C:\Alcohol Data\VFL06242013\VFL06242013.0006.BND	6/24/2013 5:34:14 PM
6	0.4026	436638.2	1084546	0.458	0.4026	2.103563	C:\Alcohol Data\VFL06242013\VFL06242013.0007.BND	6/24/2013 5:48:14 PM

13-13-100 3 RZM

File Name = C:\Alcohol Data\VFL06242013\VFL06242013.SEQ
Version = 1
File Date = 6/24/2013 3:37:39 PM

Entry #	Raw File Name	Method File Name	Sample Name	Sample Wt.	Int. Std. Amount
1	VFL06242013.0001.raw	Blood Alc temp VFL.MET	Blank	1.00	1.00
2	VFL06242013.0002.raw	Blood Alc temp VFL.MET	TMX	1.00	1.00
3	VFL06242013.0003.raw	Blood Alc temp VFL.MET	STD A	1.00	1.00
4	VFL06242013.0004.raw	Blood Alc temp VFL.MET	STD B	1.00	1.00
5	VFL06242013.0005.raw	Blood Alc temp VFL.MET	STD C	1.00	1.00
6	VFL06242013.0006.raw	Blood Alc temp VFL.MET	STD D	1.00	1.00
7	VFL06242013.0007.raw	Blood Alc temp VFL.MET	STD E	1.00	1.00
8	VFL06242013.0008.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
9	VFL06242013.0009.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
10	VFL06242013.0010.raw	Blood Alc temp VFL.MET	WB	1.00	1.00
11	VFL06242013.0011.raw	Blood Alc temp VFL.MET	WB	1.00	1.00
12	VFL06242013.0012.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
13	VFL06242013.0013.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
14	VFL06242013.0014.raw	simsoln.met	0.1 RLM	1.00	1.00
15	VFL06242013.0015.raw	simsoln.met	0.1 RLM	1.00	1.00
16	VFL06242013.0016.raw	simsoln.met	0.1 RLM	1.00	1.00
17	VFL06242013.0017.raw	simsoln.met	0.1 RLM	1.00	1.00
18	VFL06242013.0018.raw	simsoln.met	0.1 RLM	1.00	1.00
19	VFL06242013.0019.raw	simsoln.met	0.1 RLM	1.00	1.00
20	VFL06242013.0020.raw	simsoln.met	0.1 RLM	1.00	1.00
21	VFL06242013.0021.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
22	VFL06242013.0022.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
23	VFL06242013.0023.raw	simsoln.met	0.1 ALB	1.00	1.00
24	VFL06242013.0024.raw	simsoln.met	0.1 ALB	1.00	1.00
25	VFL06242013.0025.raw	simsoln.met	0.1 ALB	1.00	1.00
26	VFL06242013.0026.raw	simsoln.met	0.1 ALB	1.00	1.00
27	VFL06242013.0027.raw	simsoln.met	0.1 ALB	1.00	1.00
28	VFL06242013.0028.raw	simsoln.met	0.1 ALB	1.00	1.00
29	VFL06242013.0029.raw	simsoln.met	0.1 ALB	1.00	1.00
30	VFL06242013.0030.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
31	VFL06242013.0031.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
32	VFL06242013.0032.raw	Blood Alc temp VFL.MET	0001B	1.00	1.00
33	VFL06242013.0033.raw	Blood Alc temp VFL.MET	0001B blood samples	1.00	1.00
34	VFL06242013.0034.raw	Blood Alc temp VFL.MET	0015A not included	1.00	1.00
35	VFL06242013.0035.raw	Blood Alc temp VFL.MET	0015A	1.00	1.00
36	VFL06242013.0036.raw	Blood Alc temp VFL.MET	0016A RLM 6/26/13	1.00	1.00
37	VFL06242013.0037.raw	Blood Alc temp VFL.MET	0016A	1.00	1.00
38	VFL06242013.0038.raw	Blood Alc temp VFL.MET	0017A	1.00	1.00
39	VFL06242013.0039.raw	Blood Alc temp VFL.MET	0017A	1.00	1.00
40	VFL06242013.0040.raw	Blood Alc temp VFL.MET	0018A	1.00	1.00
41	VFL06242013.0041.raw	Blood Alc temp VFL.MET	0018A	1.00	1.00
42	VFL06242013.0042.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
43	VFL06242013.0043.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
44	VFL06242013.0044.raw	Blood Alc temp VFL.MET	0019A	1.00	1.00
45	VFL06242013.0045.raw	Blood Alc temp VFL.MET	0019A blood samples	1.00	1.00
46	VFL06242013.0046.raw	Blood Alc temp VFL.MET	0021A not included	1.00	1.00
47	VFL06242013.0047.raw	Blood Alc temp VFL.MET	0021A	1.00	1.00
48	VFL06242013.0048.raw	Blood Alc temp VFL.MET	0022A RLM 6/26/13	1.00	1.00
49	VFL06242013.0049.raw	Blood Alc temp VFL.MET	0022A	1.00	1.00
50	VFL06242013.0050.raw	Blood Alc temp VFL.MET	0023A	1.00	1.00
51	VFL06242013.0051.raw	Blood Alc temp VFL.MET	0023A	1.00	1.00
52	VFL06242013.0052.raw	Blood Alc temp VFL.MET	0024A	1.00	1.00
53	VFL06242013.0053.raw	Blood Alc temp VFL.MET	0024A	1.00	1.00
54	VFL06242013.0054.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
55	VFL06242013.0055.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
56	VFL06242013.0056.raw	Blood Alc temp VFL.MET	0025A blood samples	1.00	1.00
57	VFL06242013.0057.raw	Blood Alc temp VFL.MET	0025A not included	1.00	1.00
58	VFL06242013.0058.raw	Blood Alc temp VFL.MET	CCS RLM 6/26/13	1.00	1.00
59	VFL06242013.0059.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00

13-13-100 4 RLM

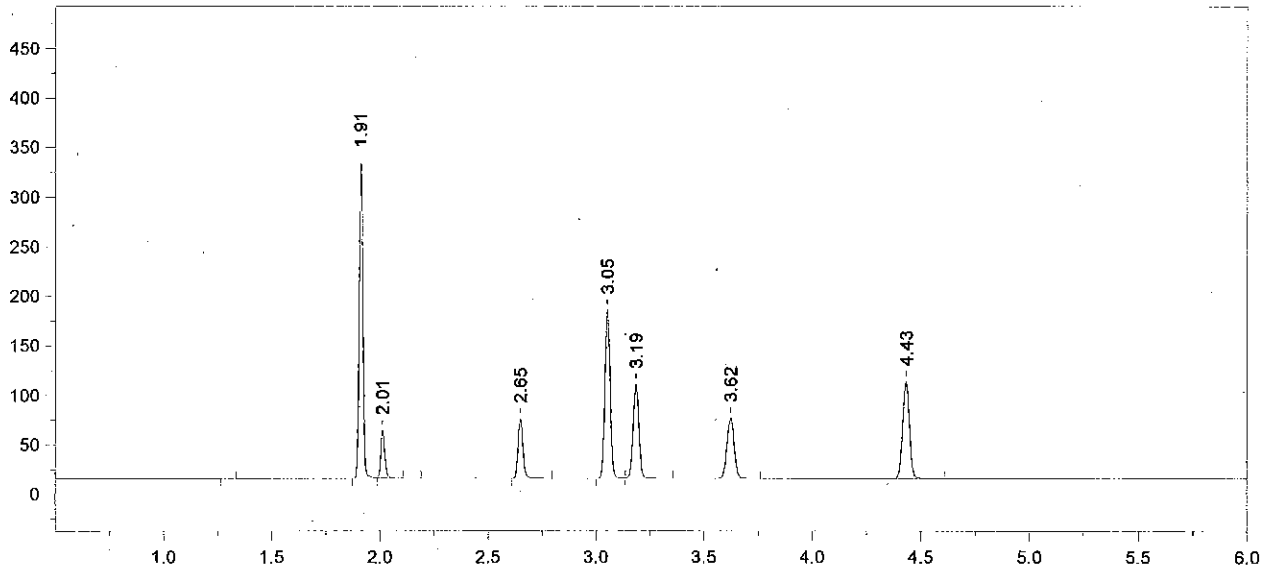


Format File Name = AlcoholVFL.FMT

Today's Date = 6/25/2013
Today's Time = 7:50:28 AM
Bound File Name = VFL06242013.0001.RAW
Sample Name = Blank
Date Taken = 6/24/2013 4:13:53 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06242013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	3.62	t-Butanol	139386	0.9651
5	4.43	n-Propanol	219360	1.0000

13-13-100 5 RLM

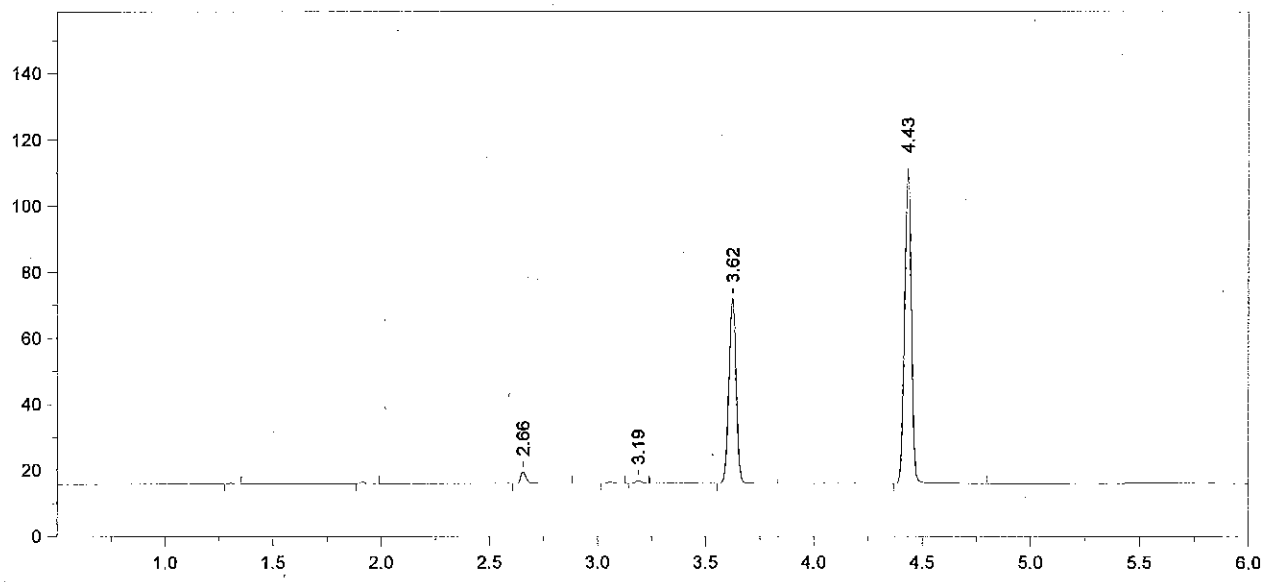


Format File Name = AlcoholVFL.FMT

Today's Date = 6/25/2013
Today's Time = 7:50:33 AM
Bound File Name = VFL06242013.0002.RAW
Sample Name = TMX
Date Taken = 6/24/2013 4:31:20 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06242013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	1.91	Acetaldehyde	373691	0.0720
4	2.01	Methanol	60078	0.1210
5	2.65	Ethanol	93538	0.0861
6	3.05	Acetone	290453	0.0690
7	3.19	Isopropanol	177716	0.0830
8	3.62	t-Butanol	141198	1.0272
9	4.43	n-Propanol	208780	1.0000

13-13-100 6 RM

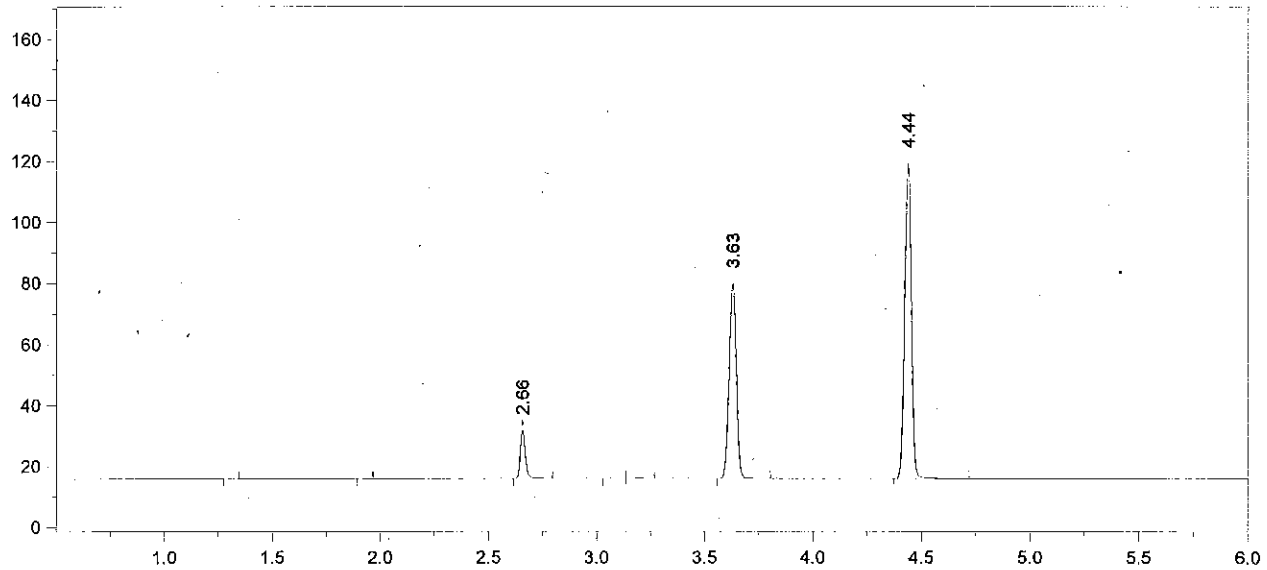


Format File Name = AlcoholVFL.FMT

Today's Date = 6/25/2013
Today's Time = 7:50:38 AM
Bound File Name = VFL06242013.0003.RAW
Sample Name = STD A
Date Taken = 6/24/2013 4:45:12 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06242013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	2.66	Ethanol	06153	0.0058 *
6	3.19	Isopropanol	01621	<0.004
7	3.62	t-Butanol	129901	0.9732
8	4.43	n-Propanol	202738	1.0000

13-13-100 7 RZM

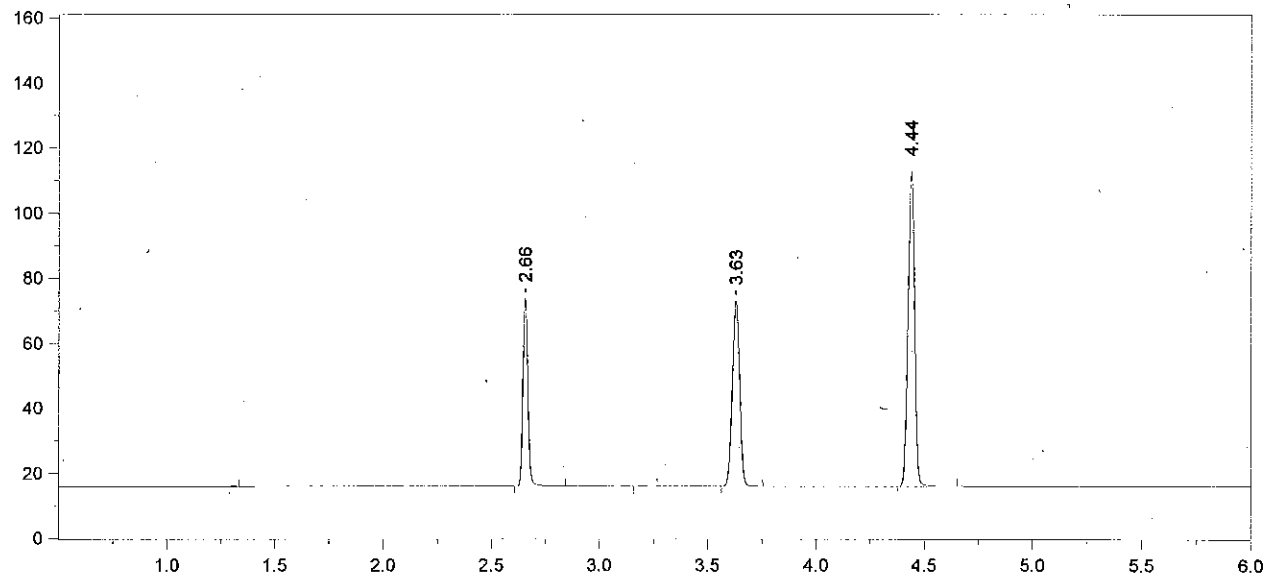


Format File Name = AlcoholVFL.FMT

Today's Date = 6/25/2013
Today's Time = 7:50:44 AM
Bound File Name = VFL06242013.0004.RAW
Sample Name = STD B
Date Taken = 6/24/2013 5:02:44 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06242013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	2.66	Ethanol	25036	0.0218 *
7	3.63	t-Butanol	148394	1.0224
8	4.44	n-Propanol	220458	1.0000

13-13-100 8 RM

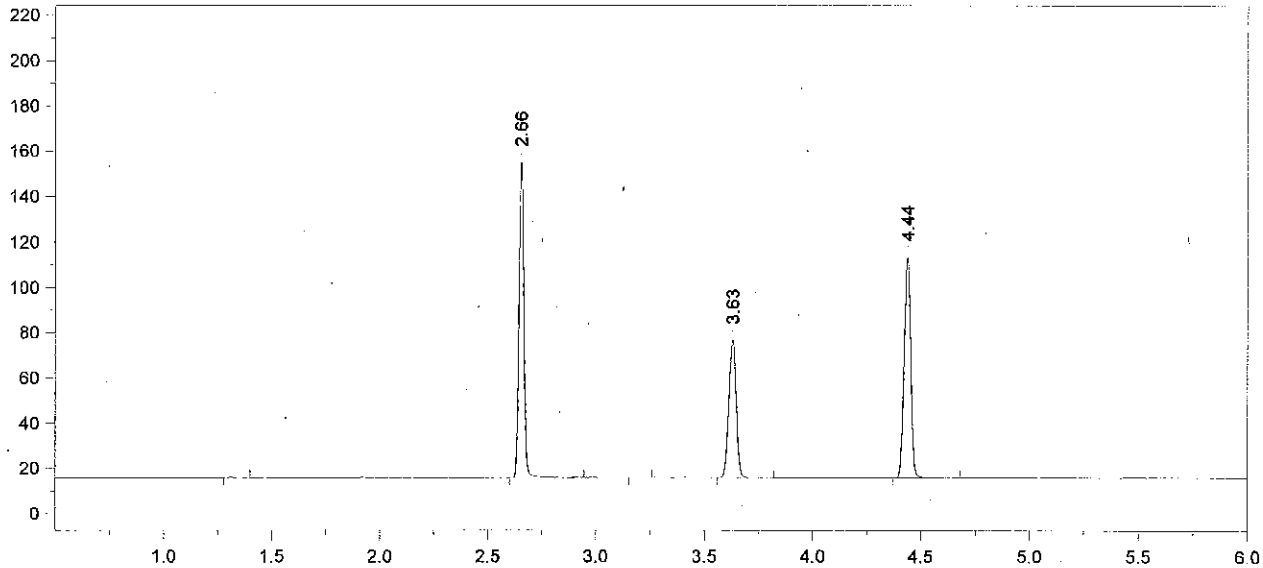


Format File Name = AlcoholVFL.FMT

Today's Date = 6/25/2013
Today's Time = 7:50:50 AM
Bound File Name = VFL06242013.0005.RAW
Sample Name = STD C
Date Taken = 6/24/2013 5:16:42 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06242013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	90434	0.0844 *
5	3.63	t-Butanol	132044	0.9739
6	4.44	n-Propanol	205931	1.0000

13-13-100 9 RM

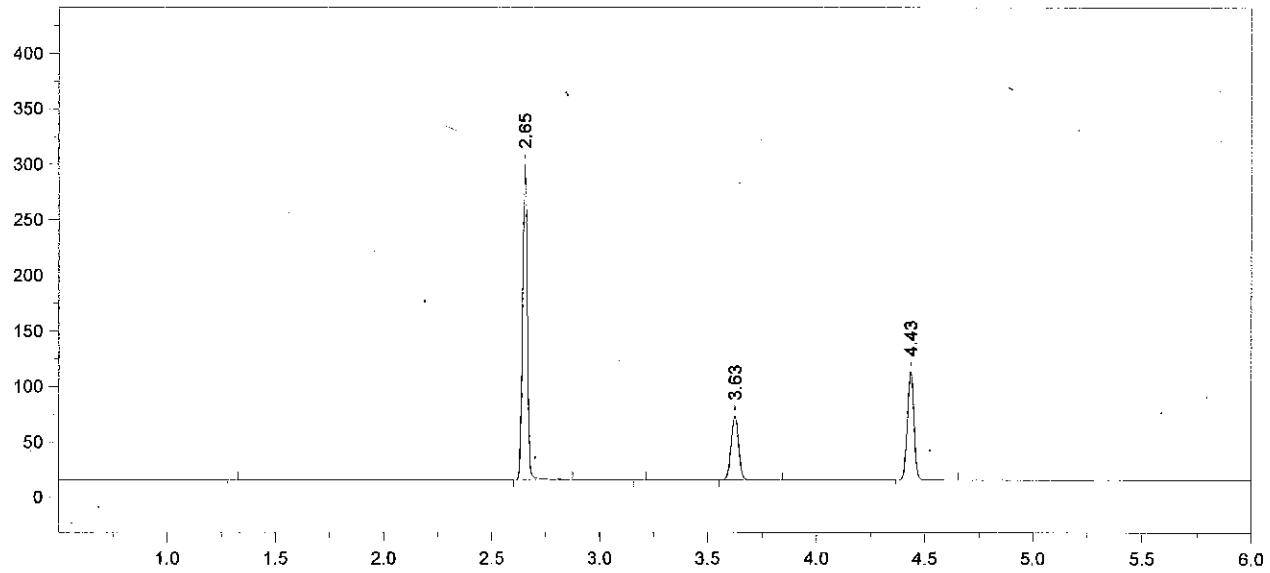


Format File Name = AlcoholVFL.FMT

Today's Date = 6/25/2013
Today's Time = 7:50:55 AM
Bound File Name = VFL06242013.0006.RAW
Sample Name = STD D
Date Taken = 6/24/2013 5:34:08 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06242013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	216108	0.1999 *
5	3.63	t-Butanol	140929	1.0298
6	4.44	n-Propanol	207853	1.0000

13-13-100 10 RZM

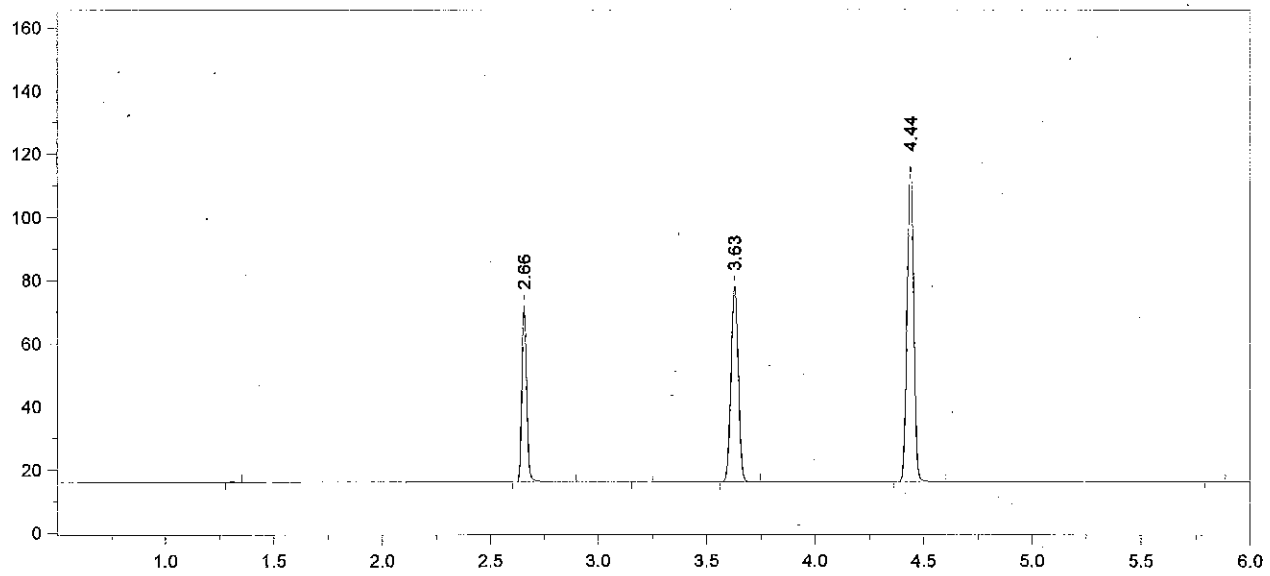


Format File Name = AlcoholVFL.FMT

Today's Date = 6/25/2013
Today's Time = 7:51:01 AM
Bound File Name = VFL06242013.0007.RAW
Sample Name = STD E
Date Taken = 6/24/2013 5:48:09 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06242013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	436638	0.4044 *
5	3.63	t-Butanol	133050	0.9736
6	4.43	n-Propanol	207571	1.0000

13-13-100 11 RKM

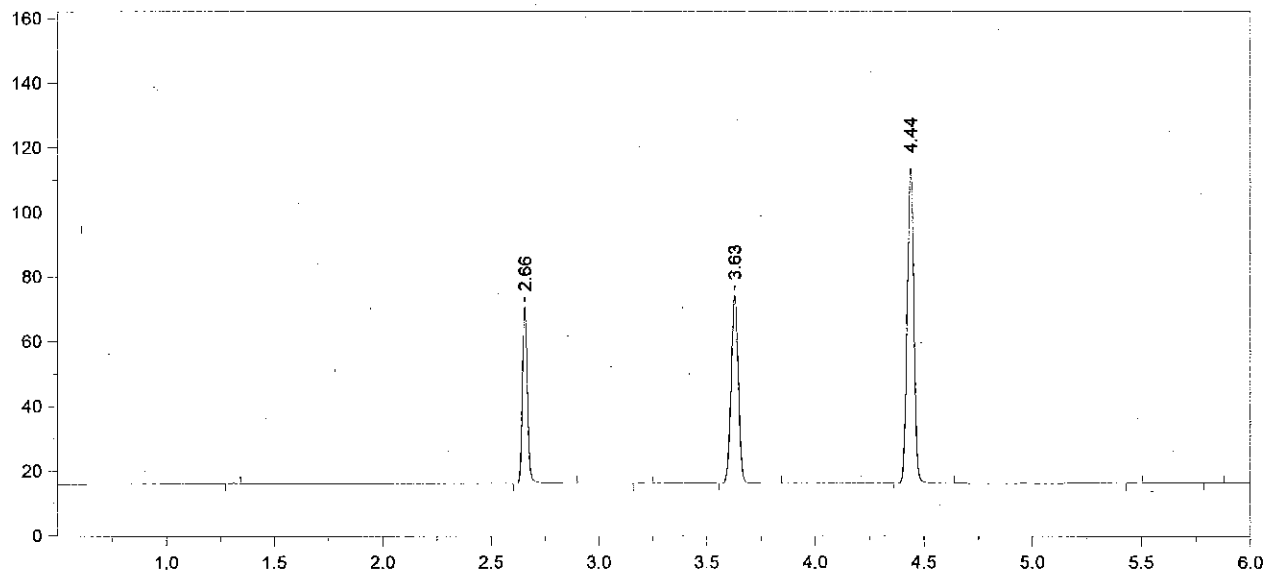


Format File Name = AlcoholVFL.FMT

Today's Date = 6/24/2013
Today's Time = 6:05:37 PM
Bound File Name = VFL06242013.0008.RAW
Sample Name = AQ QC
Date Taken = 6/24/2013 6:05:32 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06242013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	87548	0.0790
5	3.63	t-Butanol	143674	1.0237
6	4.44	n-Propanol	213175	1.0000

13-13-100 12 RZM



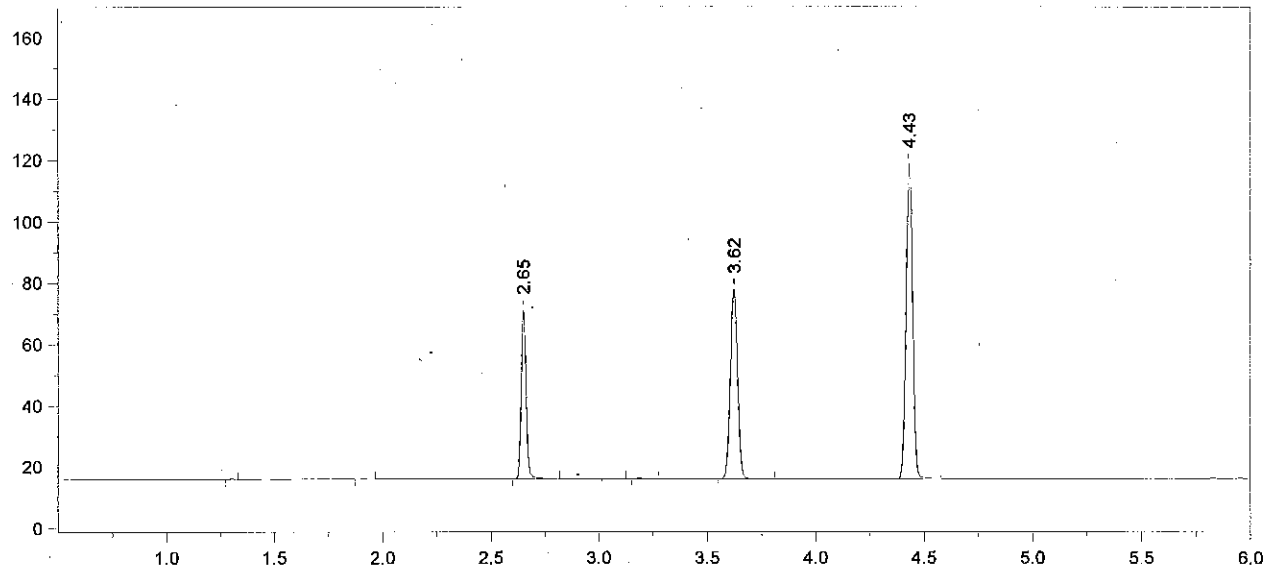
Format File Name = AlcoholVFL.FMT

Today's Date = 6/24/2013
Today's Time = 6:19:34 PM
Bound File Name = VFL06242013.0009.RAW
Sample Name = AQ QC
Date Taken = 6/24/2013 6:19:28 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06242013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	86089	0.0797 *
5	3.63	t-Butanol	134211	0.9816
6	4.44	n-Propanol	207677	1.0000

Avg #8 + #9 = 0.079
RLM 6/25/13

13-13-100 13 RLM

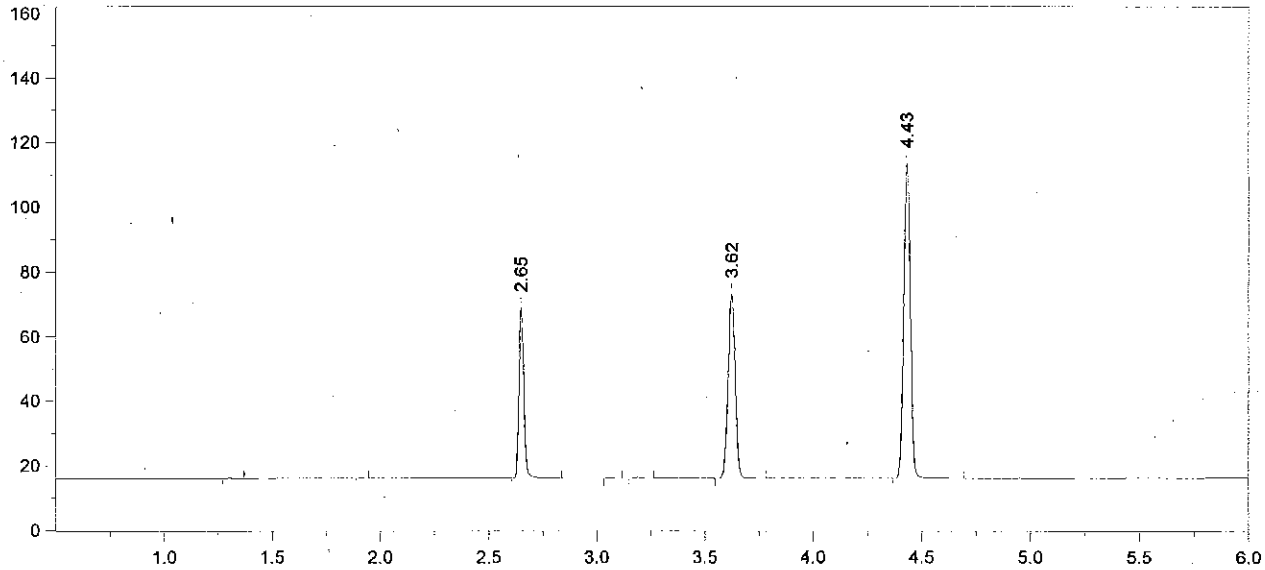


Format File Name = AlcoholVFL.FMT

Today's Date = 6/24/2013
Today's Time = 6:35:21 PM
Bound File Name = VFL06242013.0010.RAW
Sample Name = WB
Date Taken = 6/24/2013 6:35:17 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06242013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	2.65	Ethanol	86021	0.0764
7	3.62	t-Butanol	143755	1.0083
8	4.43	n-Propanol	216543	1.0000

13-13-100 14



Format File Name = AlcoholVFL.FMT

Today's Date = 6/24/2013
Today's Time = 6:50:22 PM
Bound File Name = VFL06242013.0011.RAW
Sample Name = WB
Date Taken = 6/24/2013 6:50:13 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06242013.CAL
Calibration Version = 7

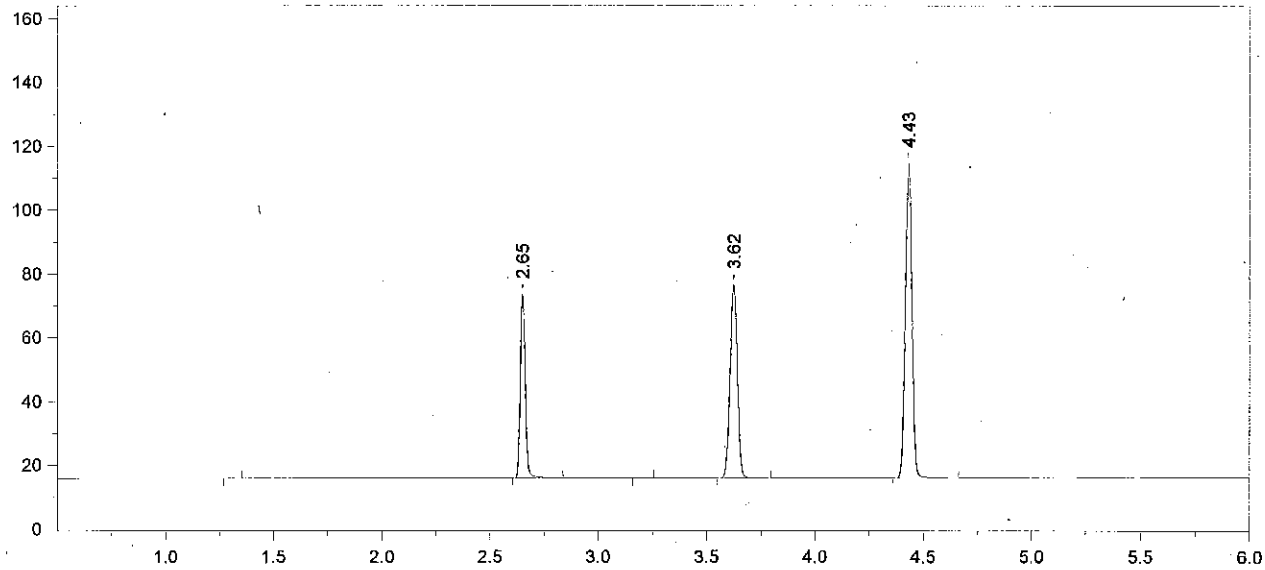
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	2.65	Ethanol	82513	0.0763*
7	3.62	t-Butanol	132261	0.9661
8	4.43	n-Propanol	207928	1.0000

Avg # 10 & #11 = 0.076

WB: Cliniqa 0911120A
Target value: 0.076
Acceptance range: 0.068-0.083
% recovery: 100%

RKM 6/25/13

13-13-100 15 RKM

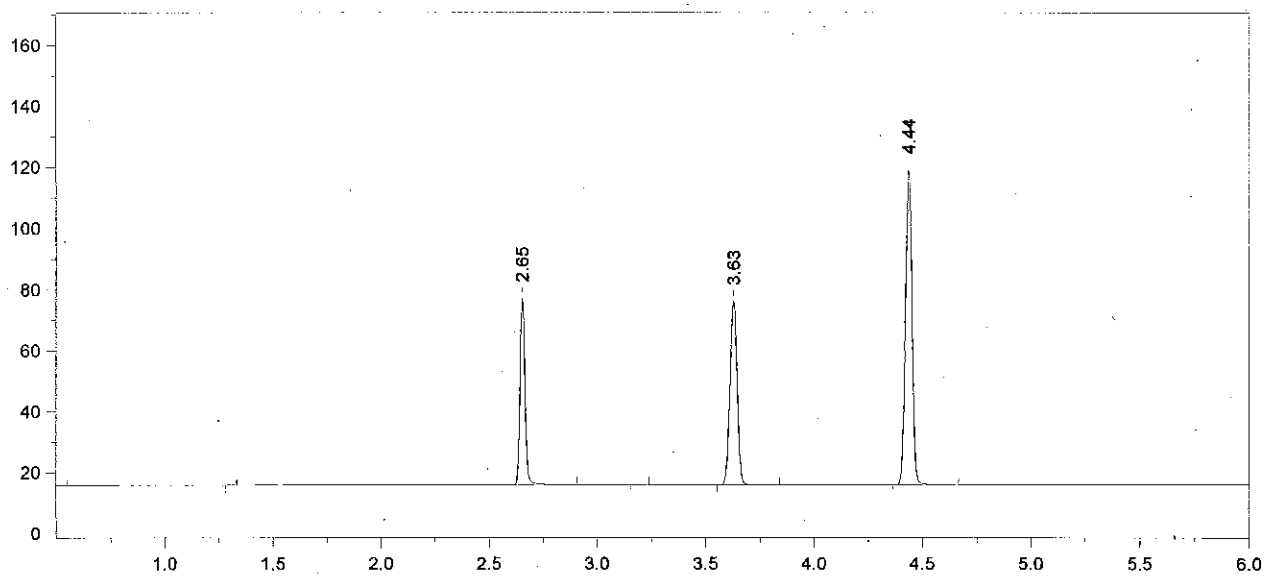


Format File Name = AlcoholVFL.FMT

Today's Date = 6/24/2013
Today's Time = 7:06:58 PM
Bound File Name = VFL06242013.0012.RAW
Sample Name = CCS
Date Taken = 6/24/2013 7:06:51 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06242013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	89728	0.0825
5	3.62	t-Butanol	140589	1.0210
6	4.43	n-Propanol	209136	1.0000

13-13-100 16 RLM



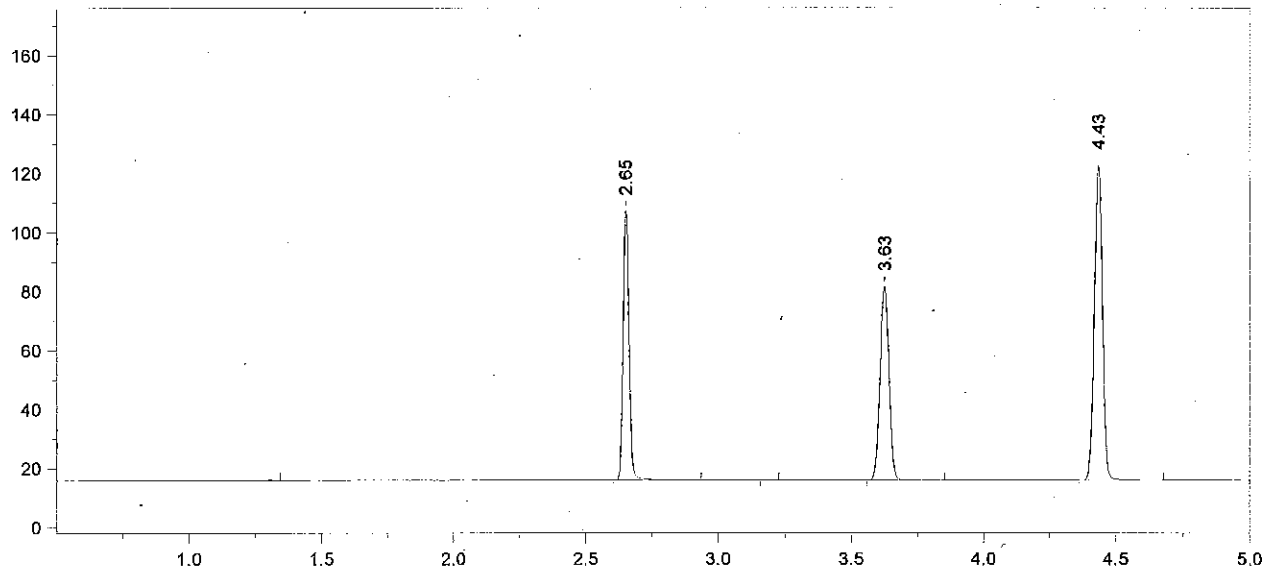
Format File Name = AlcoholVFL.FMT

Today's Date = 6/24/2013 Today's Time = 7:20:45 PM
Bound File Name = VFL06242013.0013.RAW
Sample Name = CCS
Date Taken = 6/24/2013 7:20:36 PM VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06242013.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	96074	0.0840
5	3.63	t-Butanol	139826	0.9660
6	4.44	n-Propanol	219855	1.0000

Avg #12 + #13 = 0.083
RZM 6/25/13

13-13-100 17 RZM

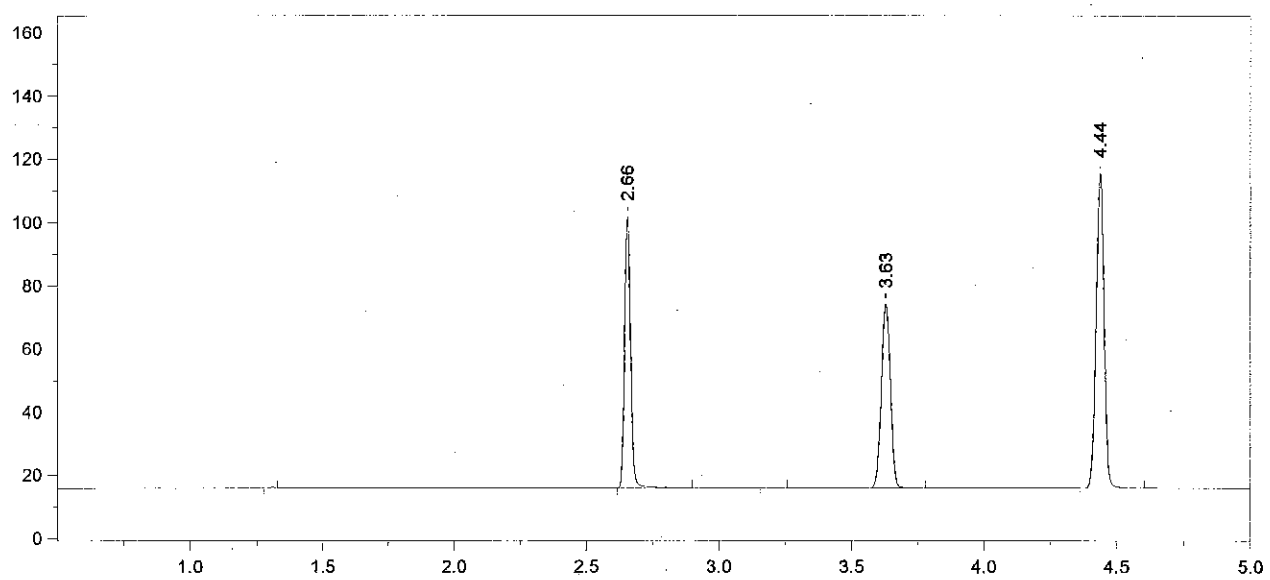


Format File Name = simsoln-JFH.met.FMT

Today's Date = 6/24/2013
Today's Time = 7:38:20 PM
Bound File Name = VFL06242013.0014.RAW
Sample Name = 0.1 RLM
Date Taken = 6/24/2013 7:38:15 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL06242013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	142738	0.1205	0.0983
5	3.63	t-Butanol	151933	1.0129	0.8267
6	4.43	n-Propanol	227834	1.0000	0.8162

13-13-100 18 [illegible]

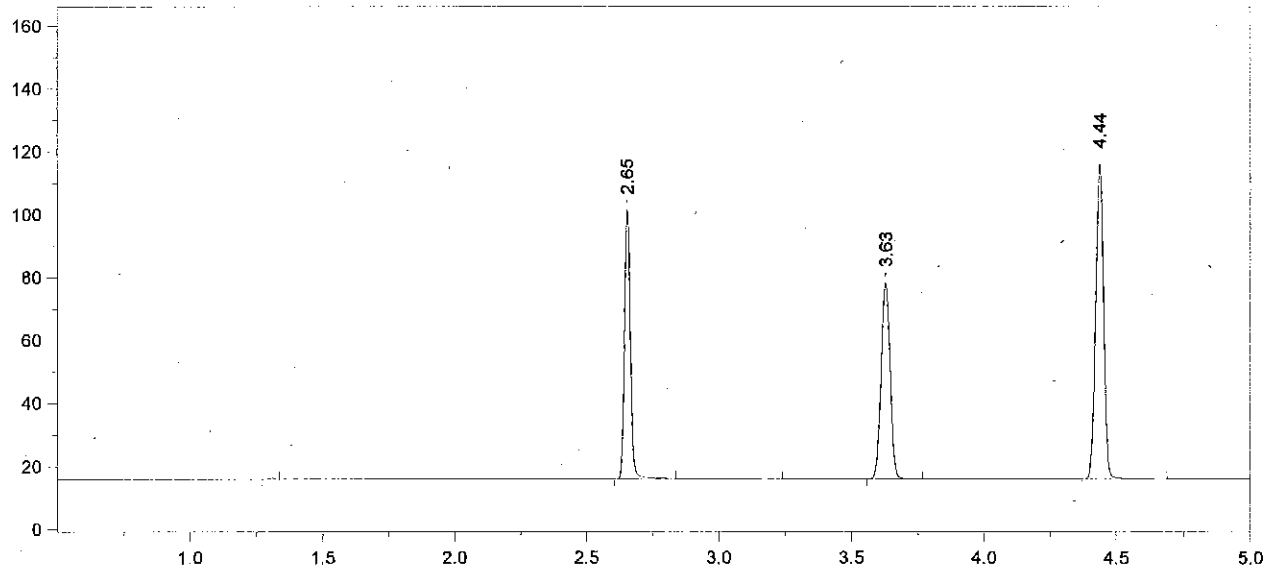


Format File Name = simsoln-JFH.met.FMT

Today's Date = 6/24/2013
Today's Time = 7:52:07 PM
Bound File Name = VFL06242013.0015.RAW
Sample Name = 0.1 RLM
Date Taken = 6/24/2013 7:52:01 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL06242013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.66	Ethanol	134719	0.1228	0.1002
5	3.63	t-Butanol	135166	0.9735	0.7946
6	4.44	n-Propanol	210886	1.0000	0.8162

13-13-100 19 RLM

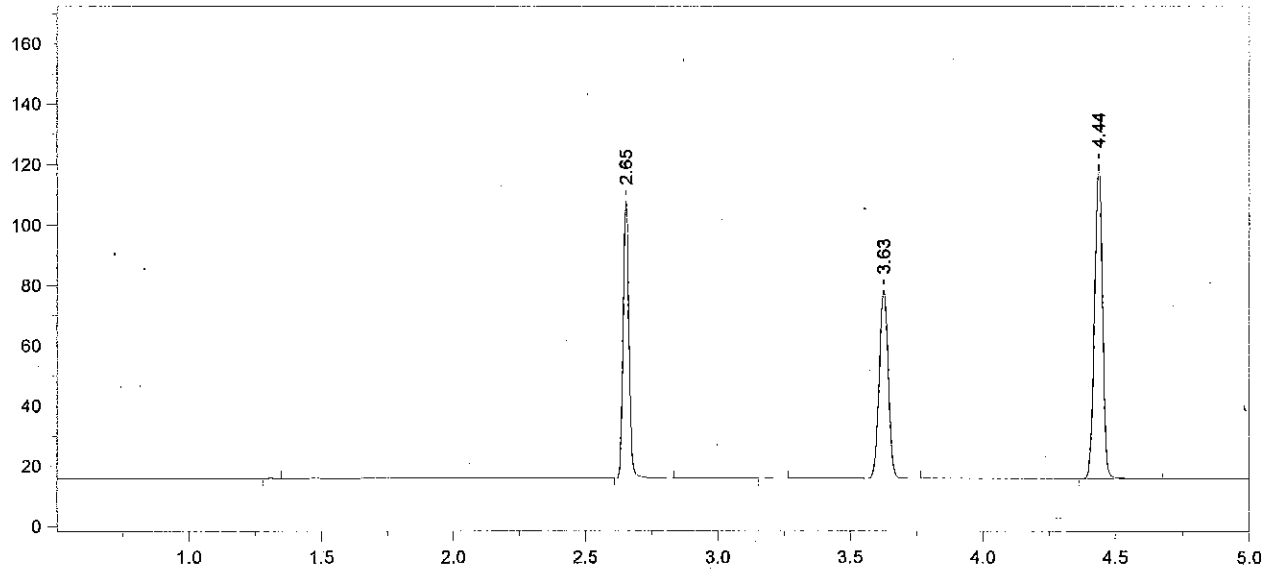


Format File Name = simsoln-JFH.met.FMT

Today's Date = 6/24/2013 Today's Time = 8:09:46 PM
Bound File Name = VFL06242013.0016.RAW
Sample Name = 0.1 RLM
Date Taken = 6/24/2013 8:09:42 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL06242013.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	132865	0.1202	0.0981
5	3.63	t-Butanol	144039	1.0297	0.8405
6	4.44	n-Propanol	212459	1.0000	0.8162

13-13-100 20 RLM

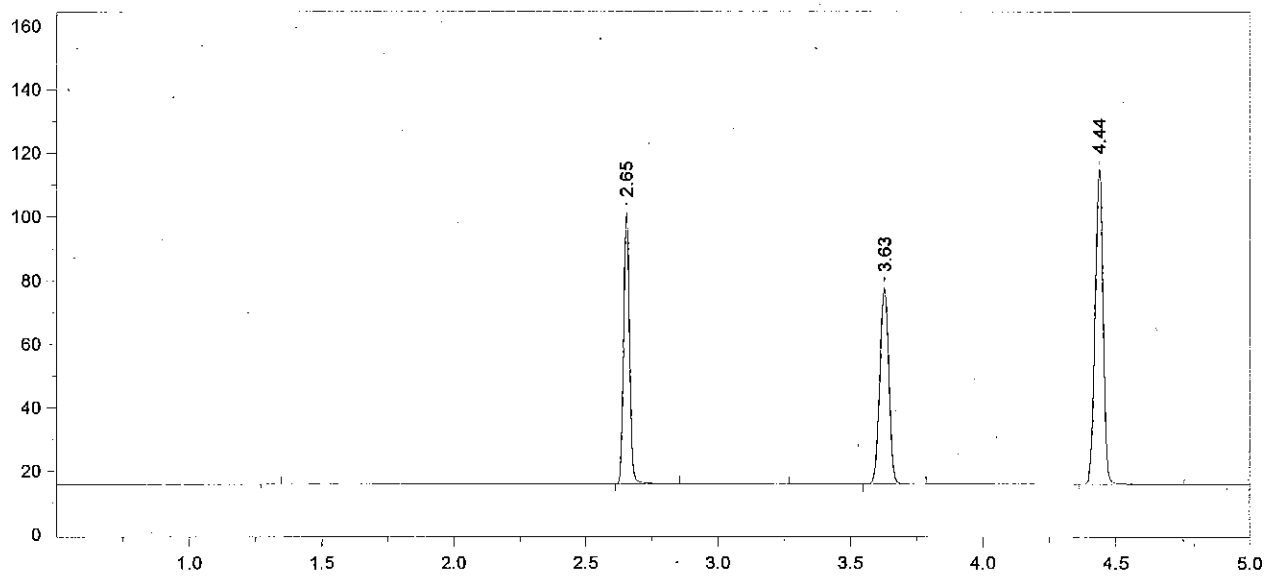


Format File Name = simsoln-JFH.met.FMT

Today's Date = 6/24/2013
Today's Time = 8:24:40 PM
Bound File Name = VFL06242013.0017.RAW
Sample Name = 0.1 RLM
Date Taken = 6/24/2013 8:24:35 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL06242013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	142469	0.1227	0.1002
5	3.63	t-Butanol	144772	0.9851	0.8041
6	4.44	n-Propanol	223202	1.0000	0.8162

13-13-100 21 RLM

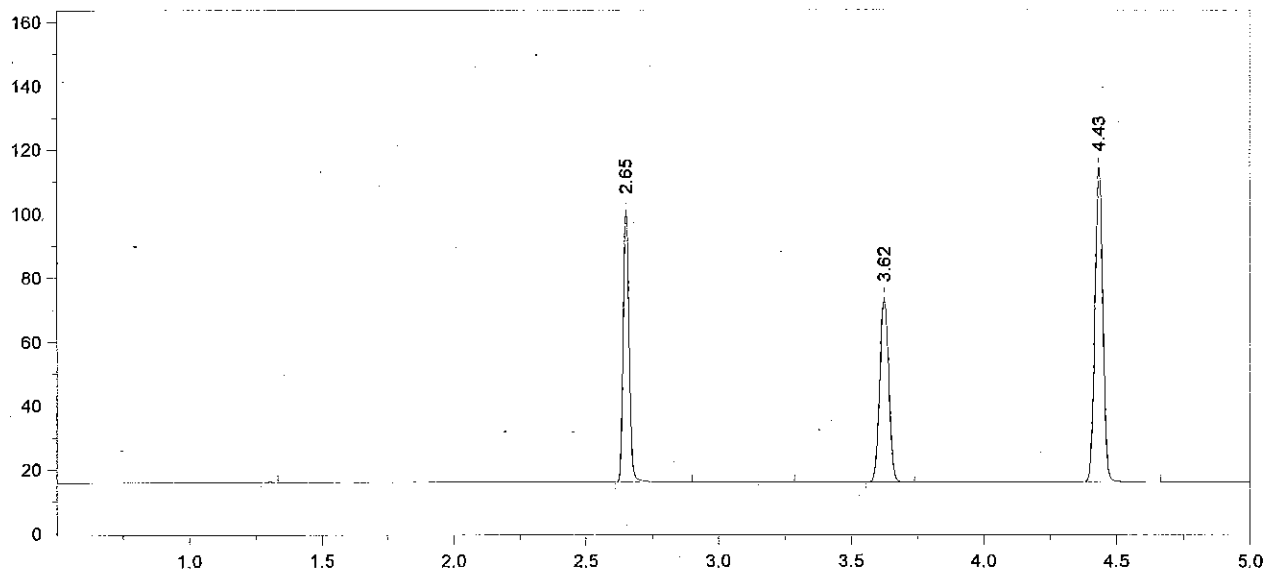


Format File Name = simsoln-JFH.met.FMT

Today's Date = 6/24/2013
Today's Time = 8:41:15 PM
Bound File Name = VFL06242013.0018.RAW
Sample Name = 0.1 RLM
Date Taken = 6/24/2013 8:41:09 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL06242013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	131858	0.1201	0.0980
5	3.63	t-Butanol	142606	1.0262	0.8376
6	4.44	n-Propanol	211067	1.0000	0.8162

13-13-100 22 RLM

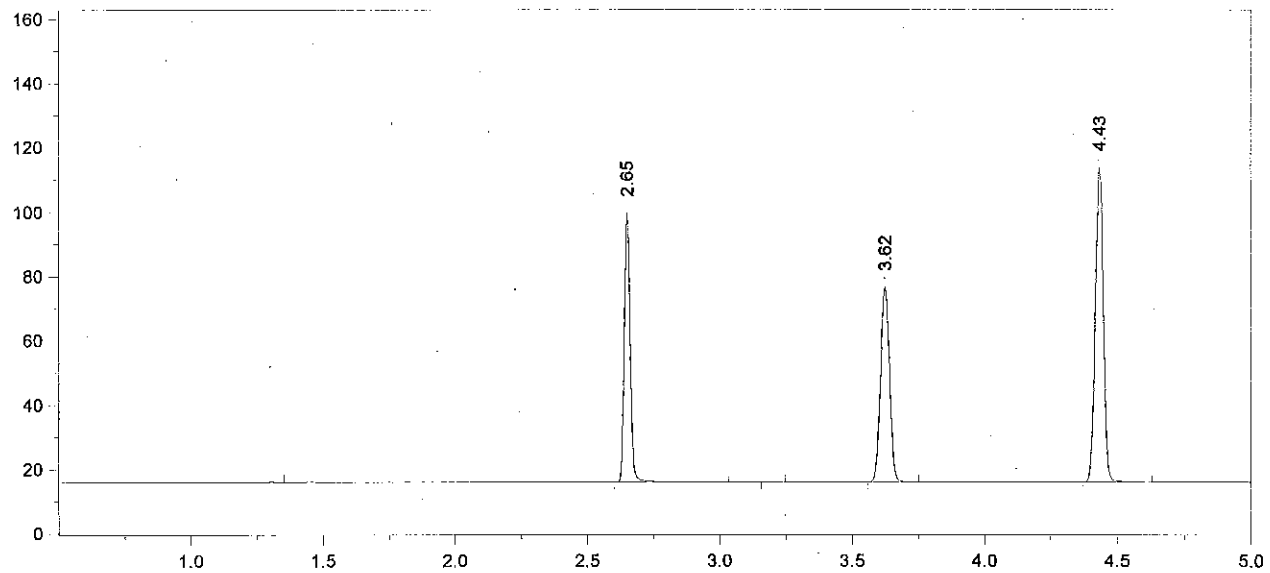


Format File Name = simsoln-JFH.met.FMT

Today's Date = 6/24/2013
Today's Time = 8:54:58 PM
Bound File Name = VFL06242013.0019.RAW
Sample Name = 0.1 RLM
Date Taken = 6/24/2013 8:54:52 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL06242013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	133129	0.1230	0.1004
5	3.62	t-Butanol	133933	0.9776	0.7979
6	4.43	n-Propanol	208093	1.0000	0.8162

13-13-100 23 RLM

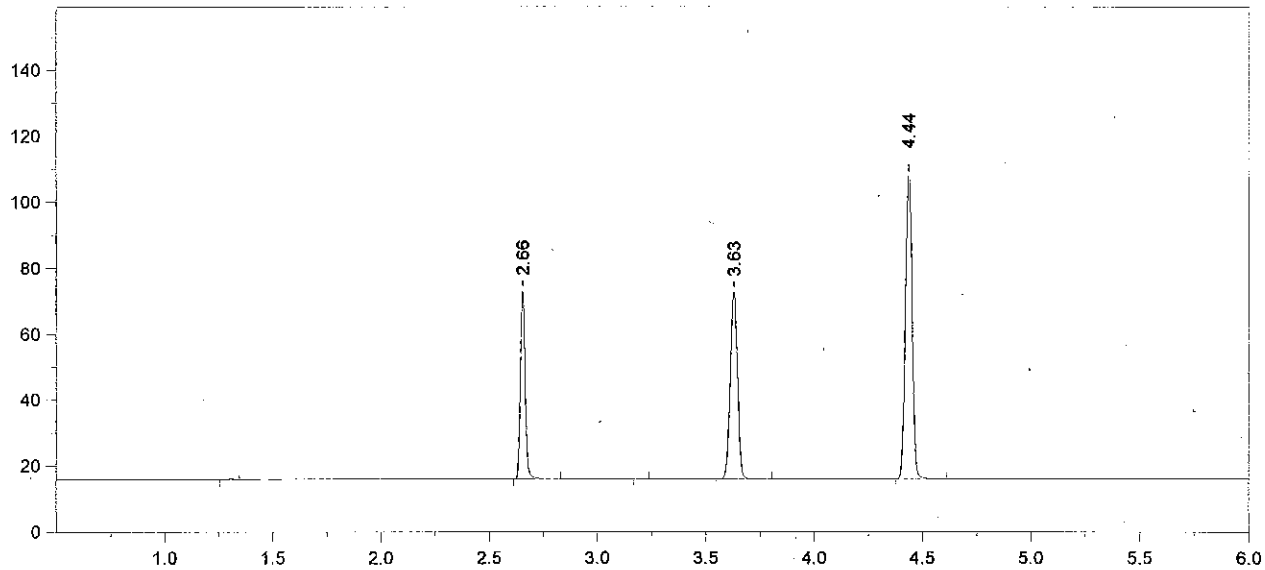


Format File Name = simsoln-JFH.met.FMT

Today's Date = 6/24/2013
Today's Time = 9:12:43 PM
Bound File Name = VFL06242013.0020.RAW
Sample Name = 0.1 RLM
Date Taken = 6/24/2013 9:12:36 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL06242013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	130607	0.1213	0.0990
5	3.62	t-Butanol	140161	1.0281	0.8391
6	4.43	n-Propanol	207075	1.0000	0.8162

13-13-100 24 RZM

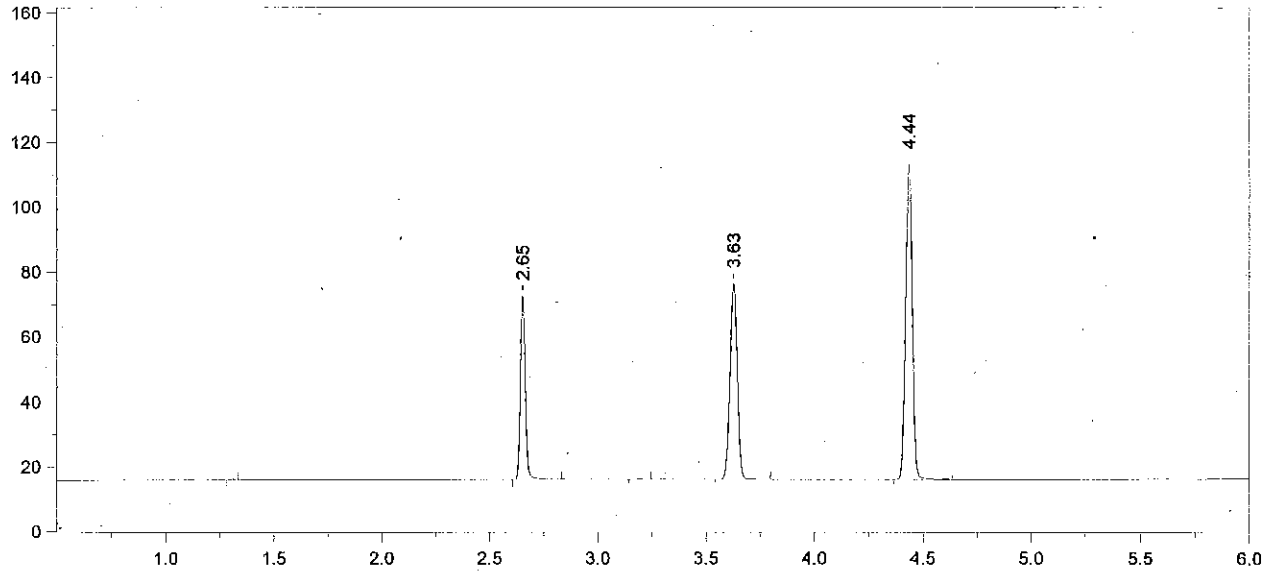


Format File Name = AlcoholVFL.FMT

Today's Date = 6/24/2013
Today's Time = 9:26:31 PM
Bound File Name = VFL06242013.0021.RAW
Sample Name = CCS
Date Taken = 6/24/2013 9:26:26 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06242013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	88836	0.0840
5	3.63	t-Butanol	131212	0.9803
6	4.44	n-Propanol	203290	1.0000

13-13-100 25 RLM



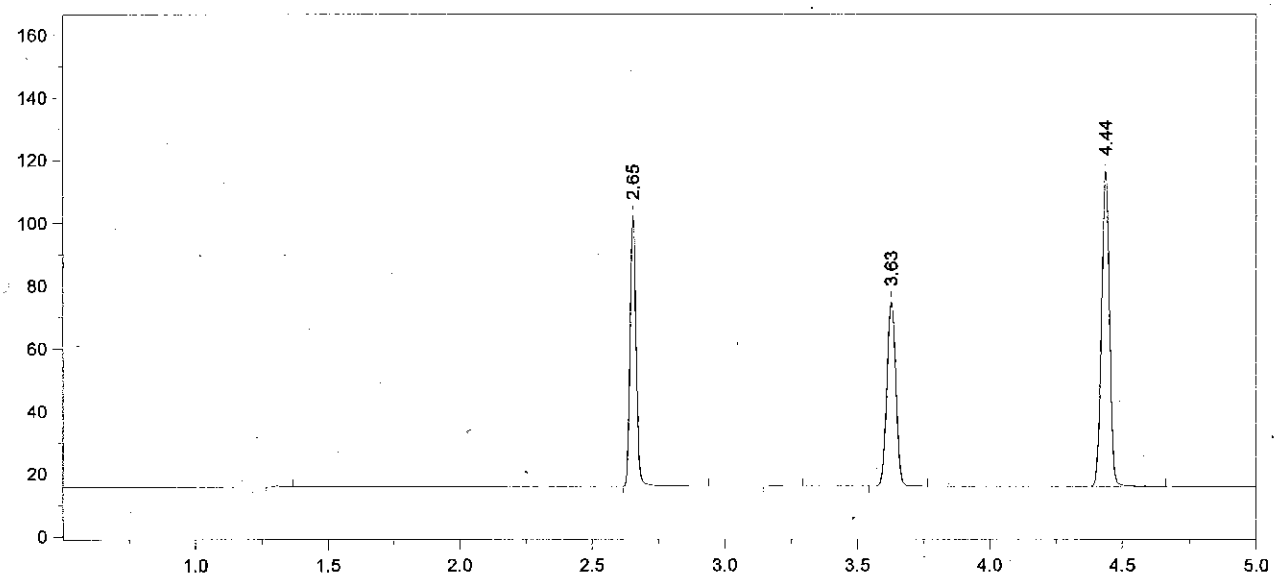
Format File Name = AlcoholVFL.FMT

Today's Date = 6/24/2013
Today's Time = 9:44:04 PM
Bound File Name = VFL06242013.0022.RAW
Sample Name = CCS
Date Taken = 6/24/2013 9:44:00 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06242013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	87895	0.0820 *
5	3.63	t-Butanol	139836	1.0303
6	4.44	n-Propanol	206149	1.0000

Avg #21 + #22 = 0.083
KM 6/25/13

13-13-100 26 KM

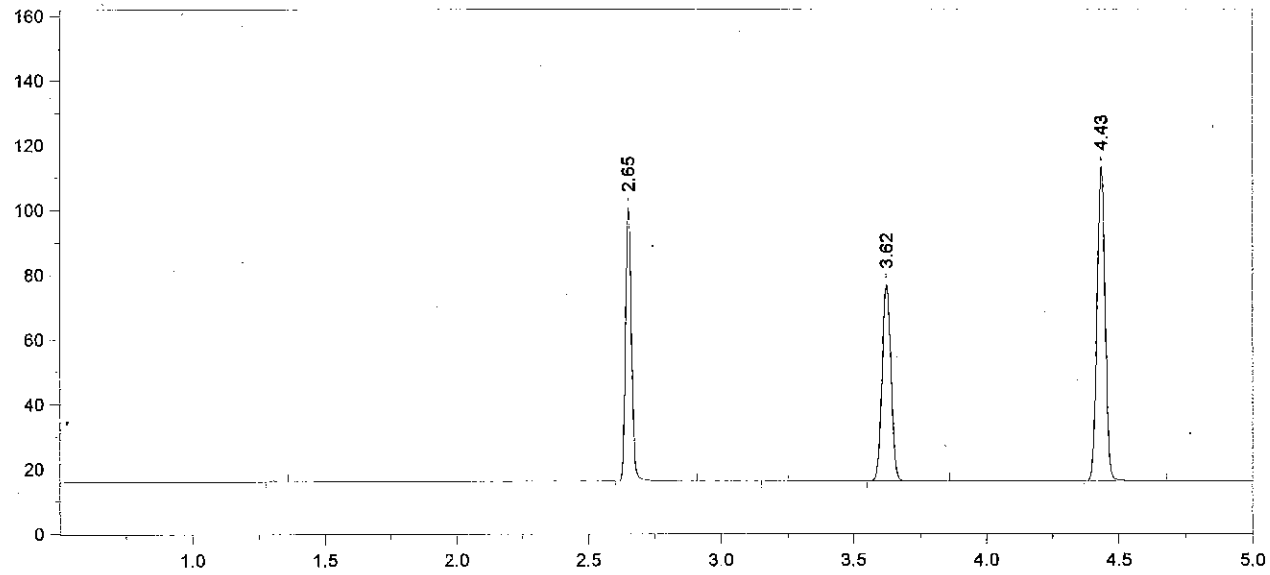


Format File Name = simsoln-JFH.met.FMT

Today's Date = 6/24/2013 Today's Time = 9:57:48 PM
Bound File Name = VFL06242013.0023.RAW
Sample Name = 0.1 ALB
Date Taken = 6/24/2013 9:57:41 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL06242013.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	134628	0.1220	0.0996
5	3.63	t-Butanol	136492	0.9773	0.7977
6	4.44	n-Propanol	212128	1.0000	0.8162

13-13-100 27 RKM

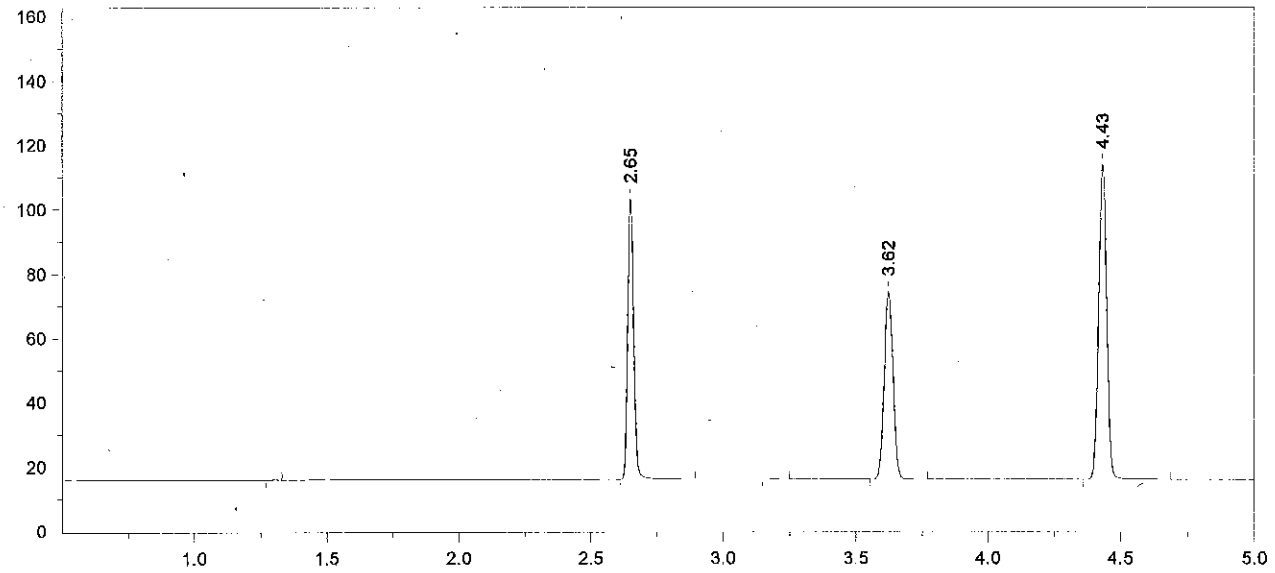


Format File Name = simsoln-JFH.met.FMT

Today's Date = 6/24/2013
Today's Time = 10:15:35 PM
Bound File Name = VFL06242013.0024.RAW
Sample Name = 0.1 ALB
Date Taken = 6/24/2013 10:15:24 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL06242013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	131619	0.1220	0.0996
5	3.62	t-Butanol	141230	1.0345	0.8443
6	4.43	n-Propanol	207362	1.0000	0.8162

13-13-100 28 RZm

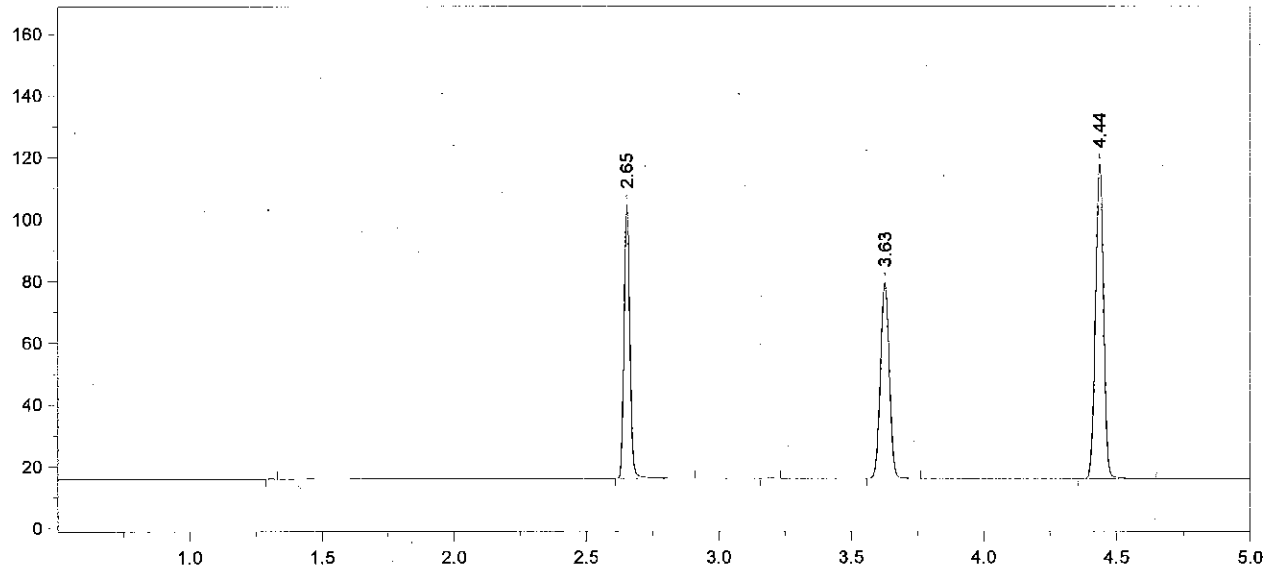


Format File Name = simsoln-JFH.met.FMT

Today's Date = 6/24/2013
Today's Time = 10:29:22 PM
Bound File Name = VFL06242013.0025.RAW
Sample Name = 0.1 ALB
Date Taken = 6/24/2013 10:29:18 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL06242013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	135348	0.1248	0.1019
5	3.62	t-Butanol	135042	0.9840	0.8032
6	4.43	n-Propanol	208437	1.0000	0.8162

13-13-100 29 TZM

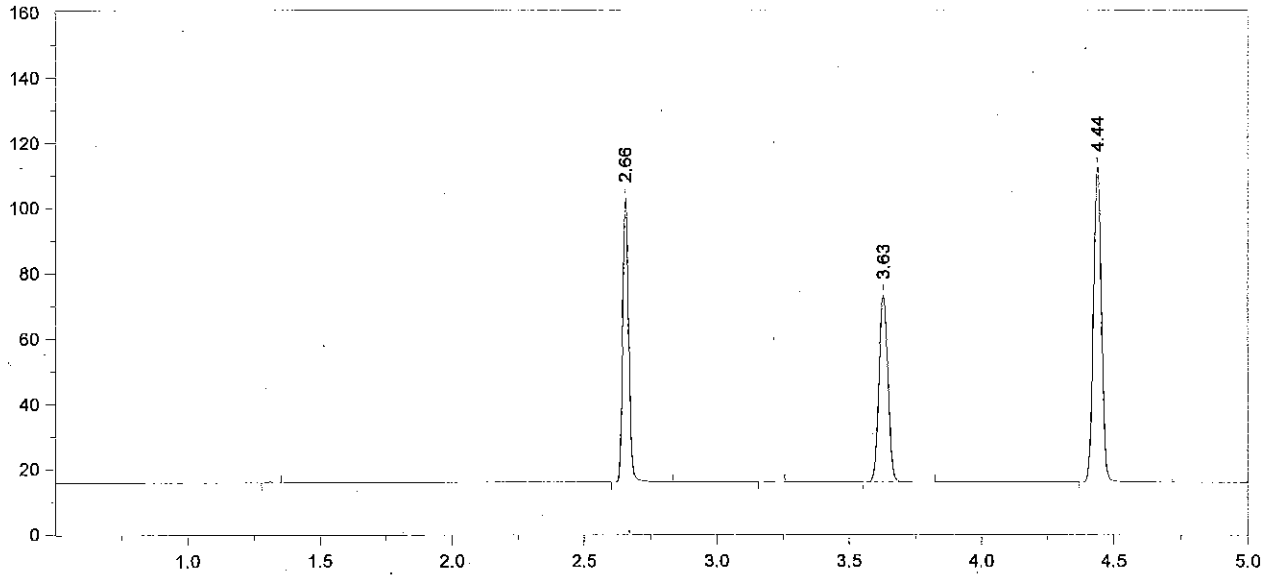


Format File Name = simsoln-JFH.met.FMT

Today's Date = 6/24/2013 Today's Time = 10:46:57 PM
Bound File Name = VFL06242013.0026.RAW
Sample Name = 0.1 ALB
Date Taken = 6/24/2013 10:46:49 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL06242013.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	137511	0.1221	0.0997
5	3.63	t-Butanol	146663	1.0288	0.8397
6	4.44	n-Propanol	216529	1.0000	0.8162

13-13-100 30 RKH

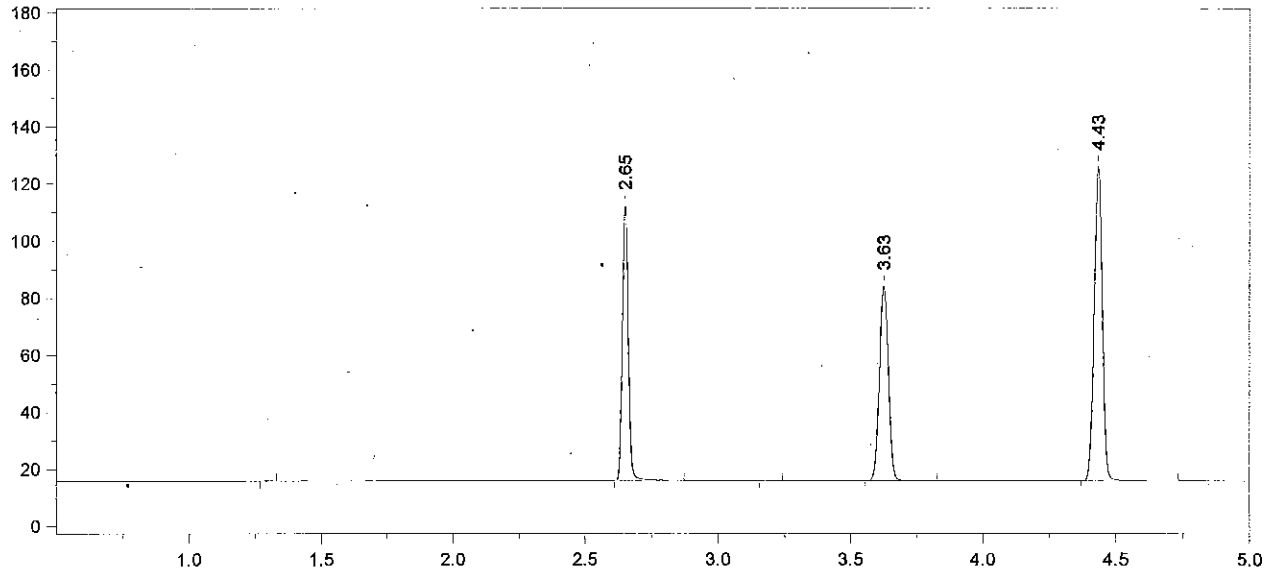


Format File Name = simsoln-JFH.met.FMT

Today's Date = 6/24/2013
Today's Time = 11:00:44 PM
Bound File Name = VFL06242013.0027.RAW
Sample Name = 0.1 ALB
Date Taken = 6/24/2013 11:00:36 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL06242013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.66	Ethanol	134893	0.1258	0.1027
5	3.63	t-Butanol	132633	0.9775	0.7978
6	4.44	n-Propanol	206092	1.0000	0.8162

13-13-100 31 [illegible]

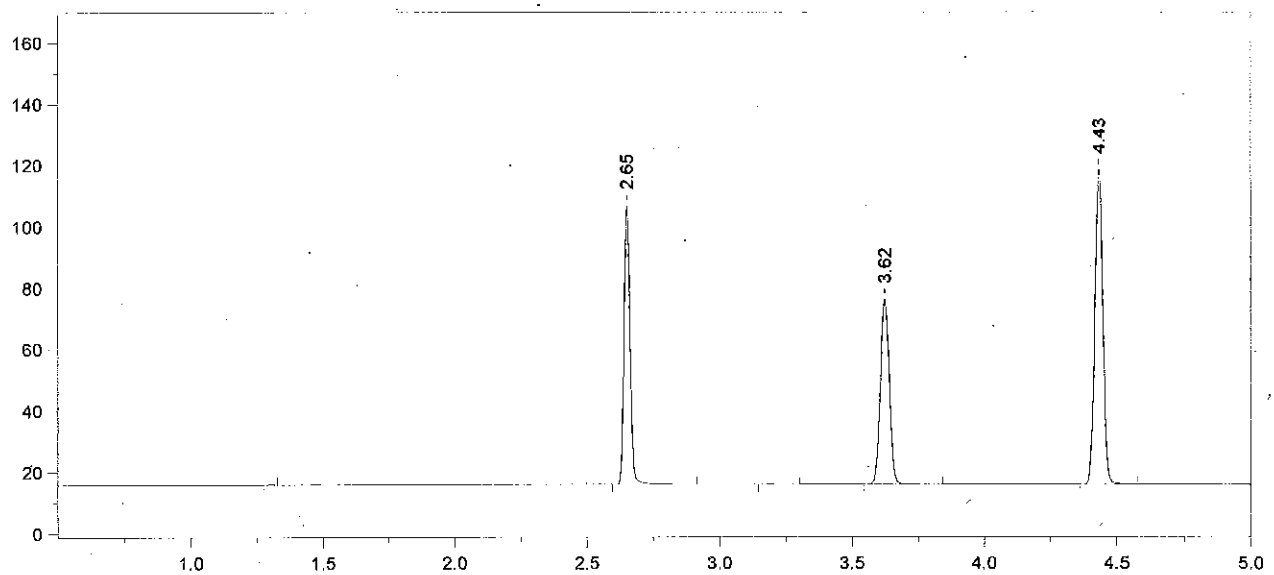


Format File Name = simsoln-JFH.met.FMT

Today's Date = 6/24/2013 Today's Time = 11:16:35 PM
Bound File Name = VFL06242013.0028.RAW
Sample Name = 0.1 ALB
Date Taken = 6/24/2013 11:16:31 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL06242013.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	150289	0.1231	0.1004
5	3.63	t-Butanol	158386	1.0245	0.8362
6	4.43	n-Propanol	234809	1.0000	0.8162

13-13-100 32 RM

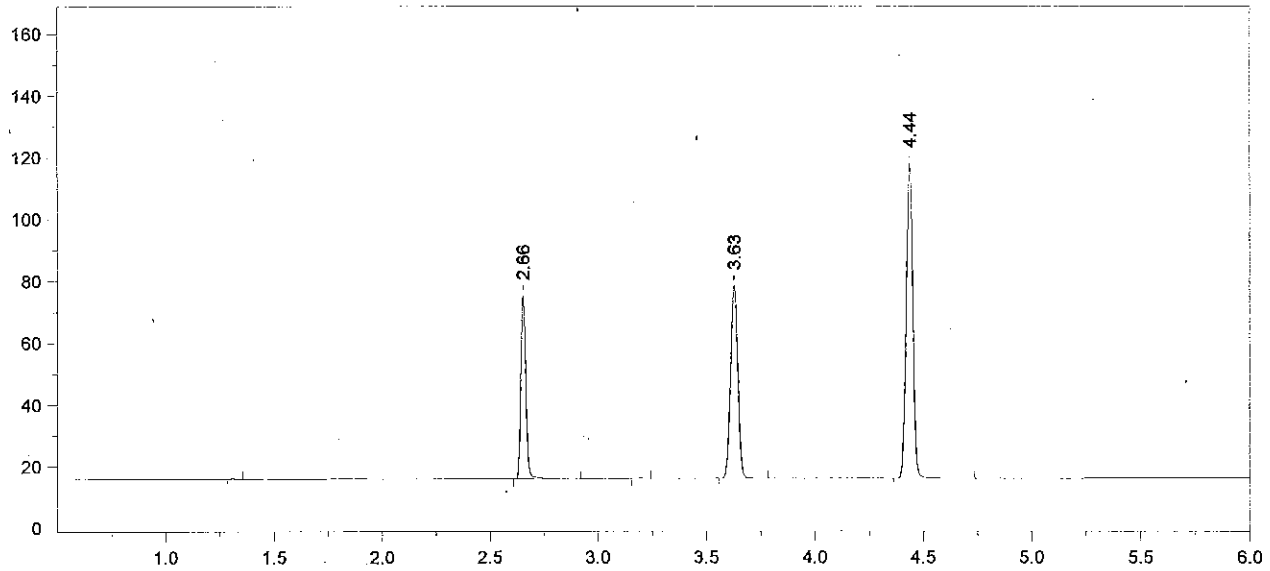


Format File Name = simsoln-JFH.met.FMT

Today's Date = 6/24/2013
Today's Time = 11:32:05 PM
Bound File Name = VFL06242013.0029.RAW
Sample Name = 0.1 ALB
Date Taken = 6/24/2013 11:31:56 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL06242013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	141716	0.1252	0.1022
5	3.62	t-Butanol	139730	0.9754	0.7961
6	4.43	n-Propanol	217585	1.0000	0.8162

13-13-100 33 RZM

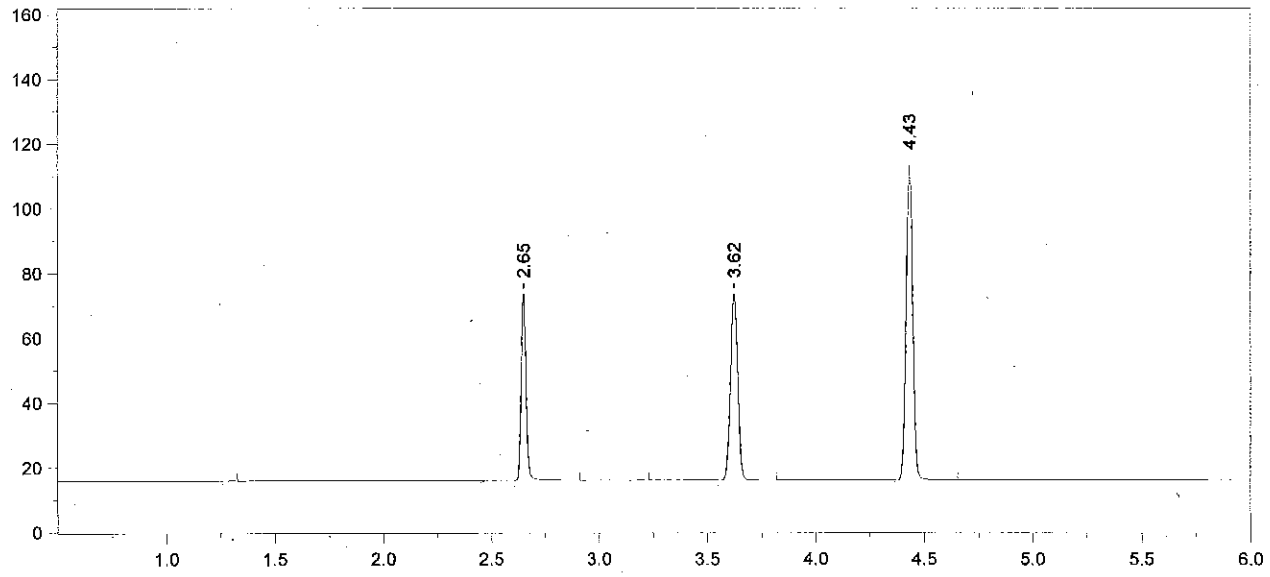


Format File Name = AlcoholVFL.FMT

Today's Date = 6/24/2013
Today's Time = 11:48:06 PM
Bound File Name = VFL06242013.0030.RAW
Sample Name = CCS
Date Taken = 6/24/2013 11:48:02 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06242013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	93155	0.0826 *
5	3.63	t-Butanol	145278	1.0177
6	4.44	n-Propanol	216809	1.0000

13-13-100 34 RLM



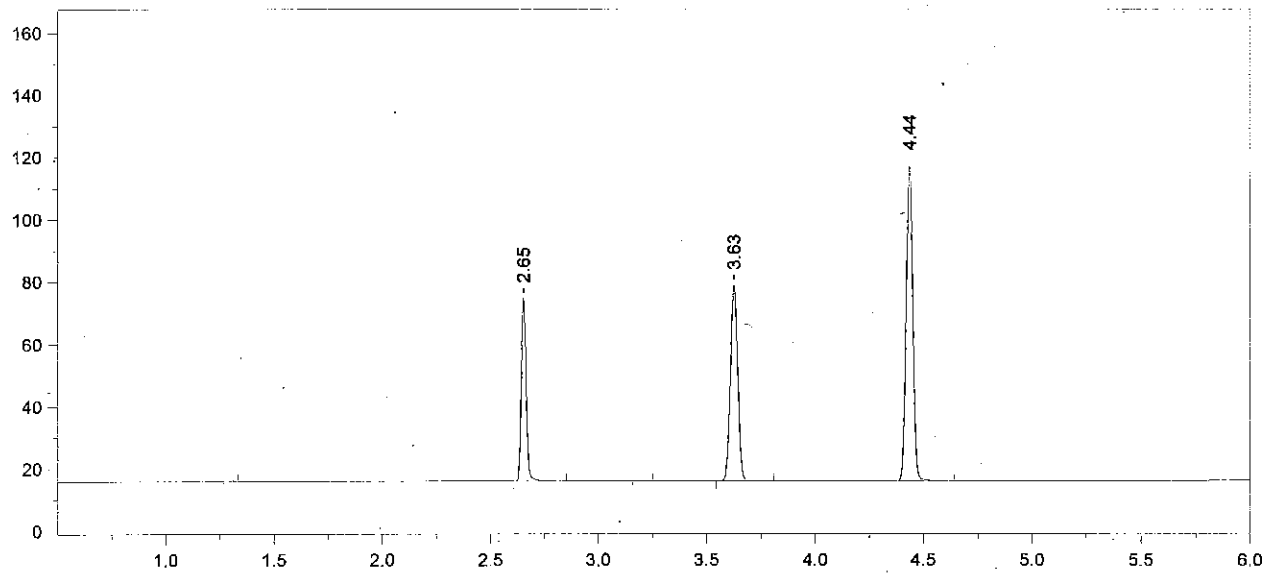
Format File Name = AlcoholVFL.FMT

Today's Date = 6/25/2013
Today's Time = 12:02:29 AM
Bound File Name = VFL06242013.0031.RAW
Sample Name = CCS
Date Taken = 6/25/2013 12:02:23 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06242013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	89983	0.0837 *
5	3.62	t-Butanol	133517	0.9814
6	4.43	n-Propanol	206626	1.0000

Avg #30 + #31 = 0.083
RLM 6/25/13

13-13-100 35 RLM

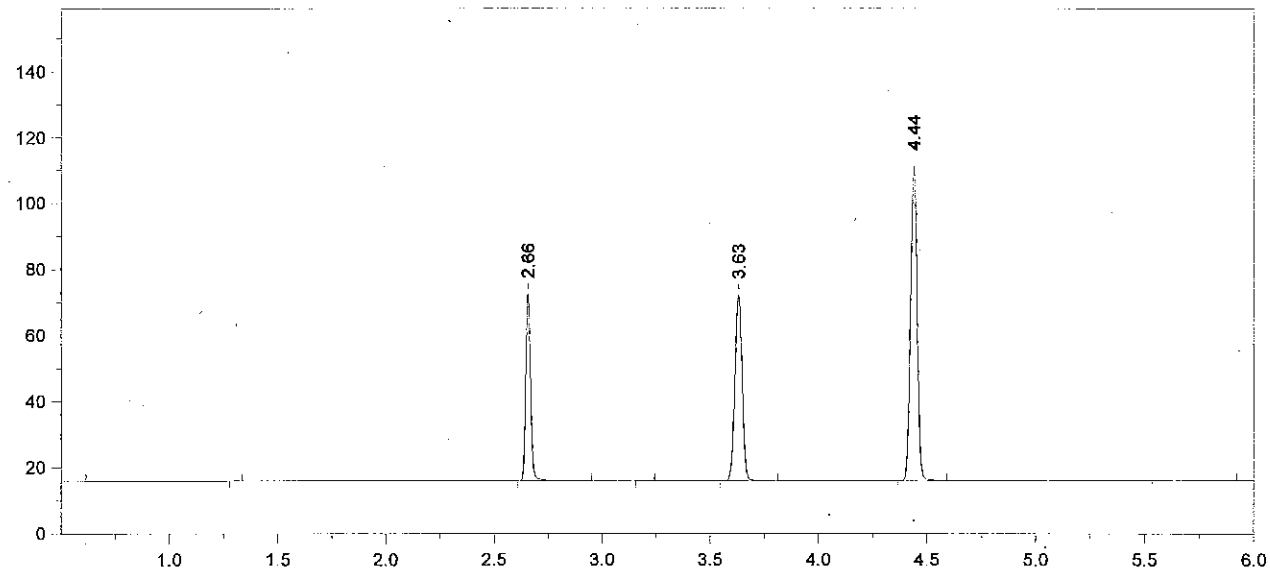


Format File Name = AlcoholVFL.FMT

Today's Date = 6/25/2013
Today's Time = 2:56:43 AM
Bound File Name = VFL06242013.0042.RAW
Sample Name = CCS
Date Taken = 6/25/2013 2:56:33 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06242013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	91115	0.0817 *
5	3.63	t-Butanol	145677	1.0317
6	4.44	n-Propanol	214460	1.0000

13-13-100 36 RLM



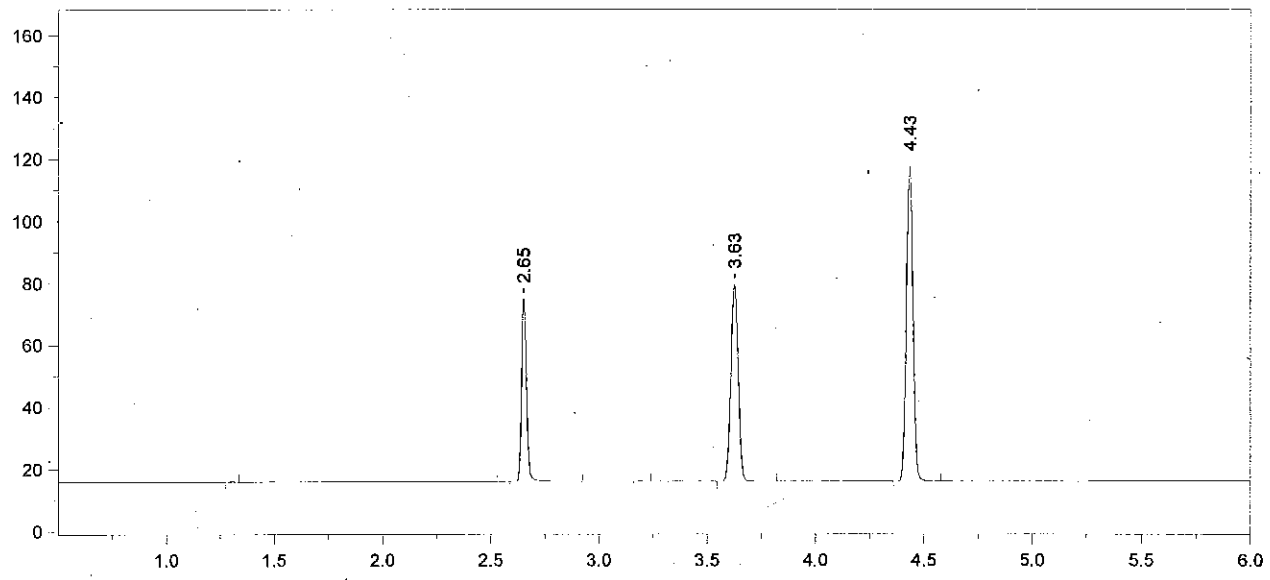
Format File Name = AlcoholVFL.FMT

Today's Date = 6/25/2013
Today's Time = 3:09:59 AM
Bound File Name = VFL06242013.0043.RAW
Sample Name = CCS
Date Taken = 6/25/2013 3:09:48 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06242013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	88564	0.0843 *
5	3.63	t-Butanol	130513	0.9809
6	4.44	n-Propanol	202084	1.0000

Avg #42 + #43 = 0.083
RZM 6/25/13

13-13-100 37 RZM

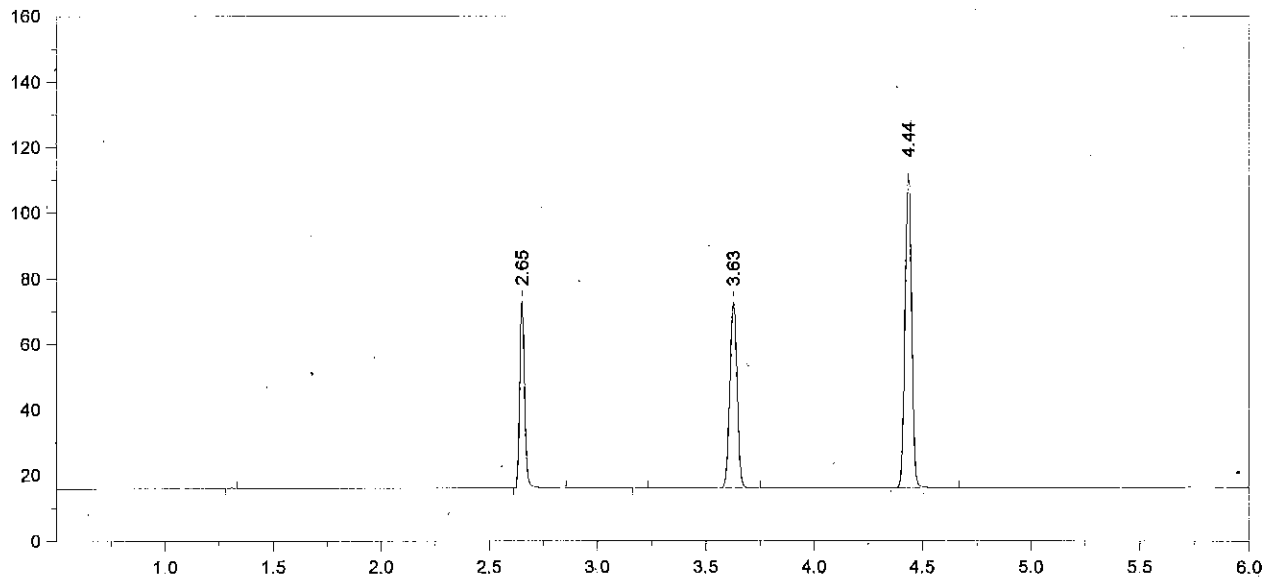


Format File Name = AlcoholVFL.FMT

Today's Date = 6/25/2013
Today's Time = 6:05:03 AM
Bound File Name = VFL06242013.0054.RAW
Sample Name = CCS
Date Taken = 6/25/2013 6:04:54 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06242013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	92311	0.0821 *
5	3.63	t-Butanol	147043	1.0336
6	4.43	n-Propanol	216067	1.0000

13-13-100 38 [illegible]



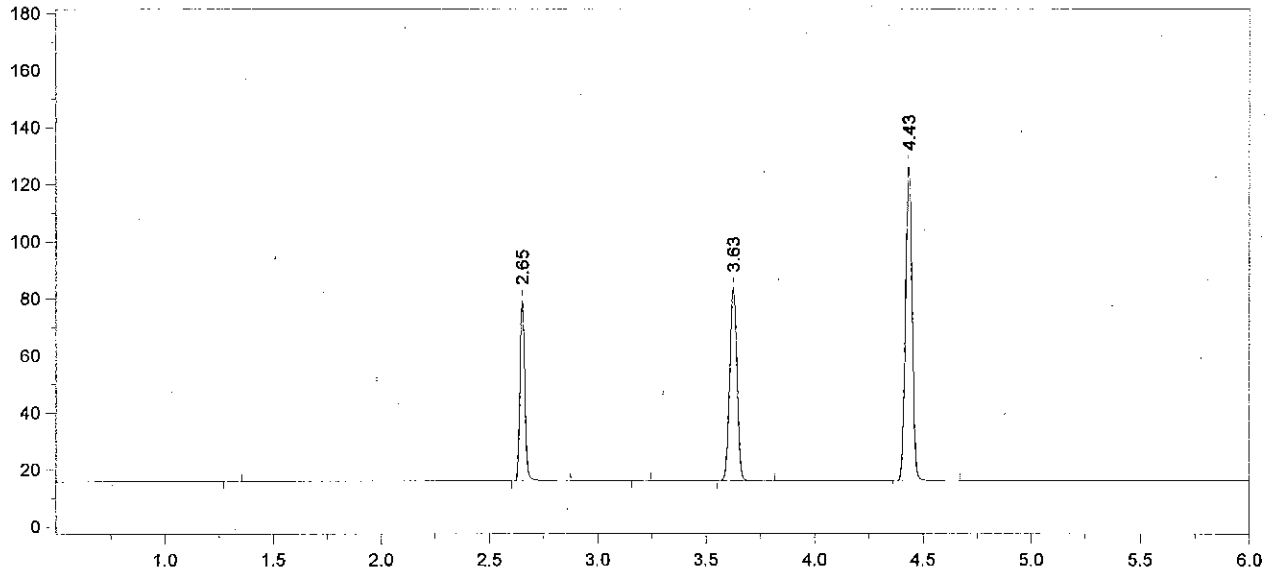
Format File Name = AlcoholVFL.FMT

Today's Date = 6/25/2013
Today's Time = 6:18:56 AM
Bound File Name = VFL06242013.0055.RAW
Sample Name = CCS
Date Taken = 6/25/2013 6:18:48 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06242013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	88897	0.0836 *
5	3.63	t-Butanol	131367	0.9759
6	4.44	n-Propanol	204448	1.0000

Avg #54 + #55 = 0.083
RLM 6/25/13

13-13-100 39 RLM

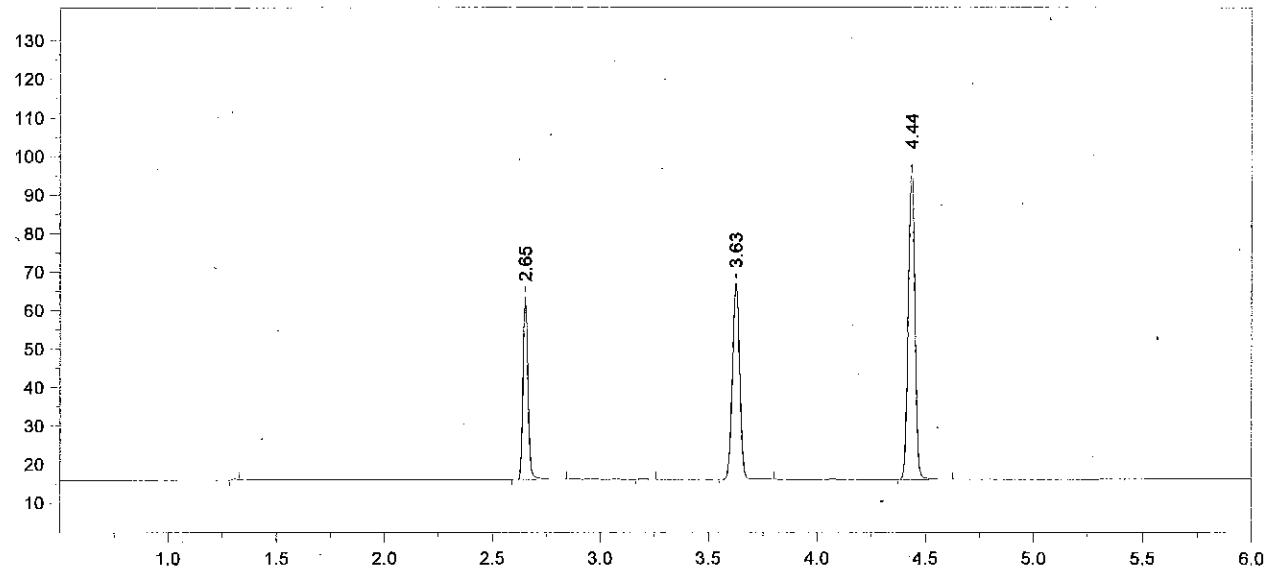


Format File Name = AlcoholVFL.FMT

Today's Date = 6/25/2013
Today's Time = 7:06:20 AM
Bound File Name = VFL06242013.0058.RAW
Sample Name = CCS
Date Taken = 6/25/2013 7:06:11 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06242013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	98790	0.0812 *
5	3.63	t-Butanol	157355	1.0215
6	4.43	n-Propanol	233978	1.0000

13-13-100 40 RLM



Format File Name = AlcoholVFL.FMT

Today's Date = 6/25/2013
Today's Time = 7:22:07 AM
Bound File Name = VFL06242013.0059.RAW
Sample Name = CCS
Date Taken = 6/25/2013 7:21:59 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06242013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	73842	0.0815 *
5	3.63	t-Butanol	117524	1.0244
6	4.44	n-Propanol	174244	1.0000

Avg #58 + #59 = 0.081
RKM 6/25/13

13-13-100 41 RKM

Headspace Alcohol Analysis Standards Coversheet

Analyst: RLM Date: 6/25/13

6/27/2013

Calibration Standards:

Lot ID: ES-04152013 Preparation Date: 04/15/2013 Expiration Date: 7/15/2013

	Standard A	Standard B	Standard C	Standard D	Standard E	Calibration Check (c)
% Ethanol (w/v)	0.005	0.022	0.084	0.204	0.402	0.084
Acceptance Range (± 10%)	0.006	0.024	0.092	0.224	0.443	0.092
	0.004	0.020	0.075	0.183	0.362	0.075

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	3.06		
		Isopropanol	3.19		
		T- butanol	3.63		
		n-propanol	4.43		
3	Standard A		0.006	(Y) N	
4	Standard B		0.022	(Y) N	
5	Standard C		~~0.085~~ 0.084 RLM 6/27/13	(Y) N	
6	Standard D		0.200	(Y) N	
7	Standard E		0.404	(Y) N	
~~8~~ 10 RLM 6/26/13	Aqueous QC		0.0787	(Y) N	Avg = 0.080 (100% recovery) ✓
~~9~~ 11 RLM 6/26/13	Aqueous QC		0.0808	(Y) N	

13-13-100 42 RLM

File Name: C:\Methods\VFL06252013.CAL
Version: 7

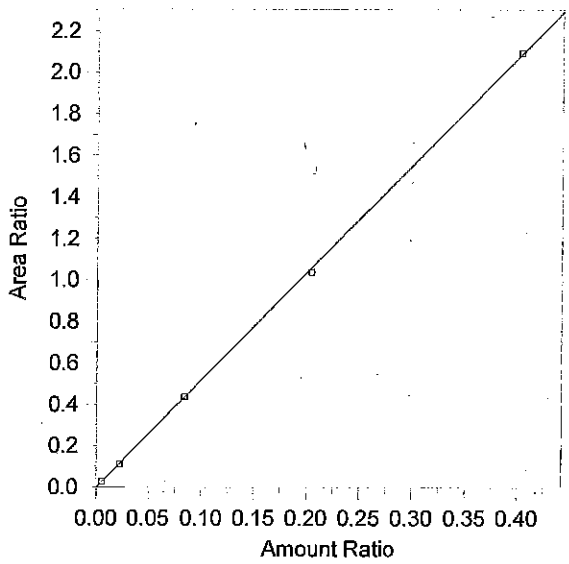
Creator:
Description:
Reason for change:

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 = 5.182528 X + 0

Linear fit with equal weighting, forced to origin

Coefficient of determination:	0.9998601
Average error:	1.421%
Average CF:	5.191337
RSD:	1.854%

Level	Amount	Response	Cal Factor	Error, %	Amount Ratio	Response Ratio	Source	Date and time
1	(0.087)	(85146)	--	--	0.087	85146	Manual	8/8/2012 7:53:22 AM
2	0.0055	6070.908	1103802	2.897	0.0055	2.932963E-02	C:\Alcohol Data\VFL06252013\VFL06252013.0003.BND	6/25/2013 4:07:55 PM
3	0.0221	25557.48	1156447	-1.427	0.0221	0.1128998	C:\Alcohol Data\VFL06252013\VFL06252013.0004.BND	6/25/2013 4:26:10 PM
4	0.084	90166.4	1073410	0.671	0.084	0.4382528	C:\Alcohol Data\VFL06252013\VFL06252013.0005.BND	6/25/2013 4:40:09 PM
5	0.2037	232163.7	1139733	-1.701	0.2037	1.037721	C:\Alcohol Data\VFL06252013\VFL06252013.0006.BND	6/25/2013 4:57:33 PM
6	0.4026	474517.1	1178632	0.410	0.4026	2.095042	C:\Alcohol Data\VFL06252013\VFL06252013.0007.BND	6/25/2013 5:12:30 PM

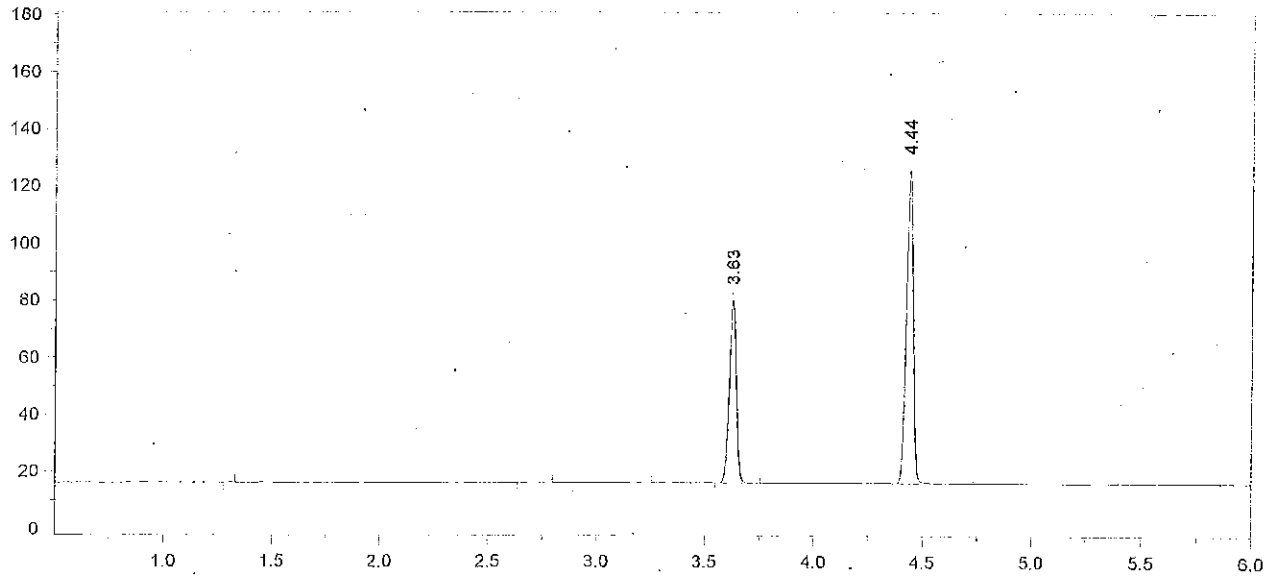
13-13-100 43 RLM

File Name = C:\Alcohol Data\VFL06252013\VFL06252013.SEQ
Version = 1
File Date = 6/25/2013 3:00:38 PM

Entry #	Raw File Name	Method File Name	Sample Name	Sample Wt.	Int. Std. Amount
1	VFL06252013.0001.raw	Blood Alc temp VFL.MET	Blank	1.00	1.00
2	VFL06252013.0002.raw	Blood Alc temp VFL.MET	TMX	1.00	1.00
3	VFL06252013.0003.raw	Blood Alc temp VFL.MET	STD A	1.00	1.00
4	VFL06252013.0004.raw	Blood Alc temp VFL.MET	STD B	1.00	1.00
5	VFL06252013.0005.raw	Blood Alc temp VFL.MET	STD C	1.00	1.00
6	VFL06252013.0006.raw	Blood Alc temp VFL.MET	STD D	1.00	1.00
7	VFL06252013.0007.raw	Blood Alc temp VFL.MET	STD E	1.00	1.00
8	VFL06252013.0008.raw	Blood Alc temp VFL.MET	WB	1.00	1.00
9	VFL06252013.0009.raw	Blood Alc temp VFL.MET	WB	1.00	1.00
10	VFL06252013.0010.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
11	VFL06252013.0011.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
12	VFL06252013.0012.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
13	VFL06252013.0013.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
14	VFL06252013.0014.raw	Blood Alc temp VFL.MET	V13-1370 A1-1	1.00	1.00
15	VFL06252013.0015.raw	Blood Alc temp VFL.MET	V13-1370 A1-1	1.00	1.00
16	VFL06252013.0016.raw	Blood Alc temp VFL.MET	V13-1408 A1-1	1.00	1.00
17	VFL06252013.0017.raw	Blood Alc temp VFL.MET	V13-1408 A1-1	1.00	1.00
18	VFL06252013.0018.raw	Blood Alc temp VFL.MET	V13-1412 A1-1	1.00	1.00
19	VFL06252013.0019.raw	Blood Alc temp VFL.MET	V13-1412 A1-1	1.00	1.00
20	VFL06252013.0020.raw	Blood Alc temp VFL.MET	V13-1413 A1-1	1.00	1.00
21	VFL06252013.0021.raw	Blood Alc temp VFL.MET	V13-1413 A1-1	1.00	1.00
22	VFL06252013.0022.raw	Blood Alc temp VFL.MET	V13-1414 A1-1	1.00	1.00
23	VFL06252013.0023.raw	Blood Alc temp VFL.MET	V13-1414 A1-1	1.00	1.00
24	VFL06252013.0024.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
25	VFL06252013.0025.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
26	VFL06252013.0026.raw	simsoln.met	0.1 RLM	1.00	1.00
27	VFL06252013.0027.raw	simsoln.met	0.1 RLM	1.00	1.00
28	VFL06252013.0028.raw	simsoln.met	0.1 RLM	1.00	1.00
29	VFL06252013.0029.raw	simsoln.met	0.1 RLM	1.00	1.00
30	VFL06252013.0030.raw	simsoln.met	0.1 RLM	1.00	1.00
31	VFL06252013.0031.raw	simsoln.met	0.1 RLM	1.00	1.00
32	VFL06252013.0032.raw	simsoln.met	0.1 RLM	1.00	1.00
33	VFL06252013.0033.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
34	VFL06252013.0034.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
35	VFL06252013.0035.raw	simsoln.met	0.1 ALB	1.00	1.00
36	VFL06252013.0036.raw	simsoln.met	0.1 ALB	1.00	1.00
37	VFL06252013.0037.raw	simsoln.met	0.1 ALB	1.00	1.00
38	VFL06252013.0038.raw	simsoln.met	0.1 ALB	1.00	1.00
39	VFL06252013.0039.raw	simsoln.met	0.1 ALB	1.00	1.00
40	VFL06252013.0040.raw	simsoln.met	0.1 ALB	1.00	1.00
41	VFL06252013.0041.raw	simsoln.met	0.1 ALB	1.00	1.00
42	VFL06252013.0042.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
43	VFL06252013.0043.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00

casework not included RZM 6/26/13

13-13-100 44 RZM

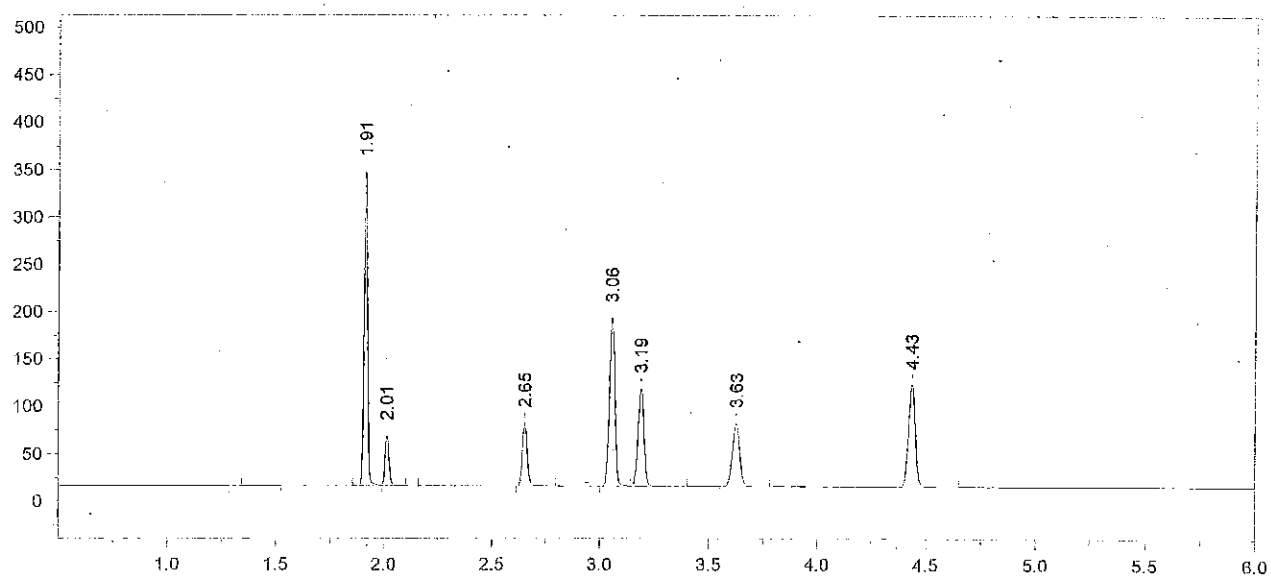


Format File Name = AlcoholVFL.FMT

Today's Date = 6/26/2013
Today's Time = 7:55:50 AM
Bound File Name = VFL06252013.0001.RAW
Sample Name = Blank
Date Taken = 6/25/2013 3:37:15 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06252013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
5	3.63	t-Butanol	147870	0.9698
6	4.44	n-Propanol	232428	1.0000

13-13-100 45 TLM

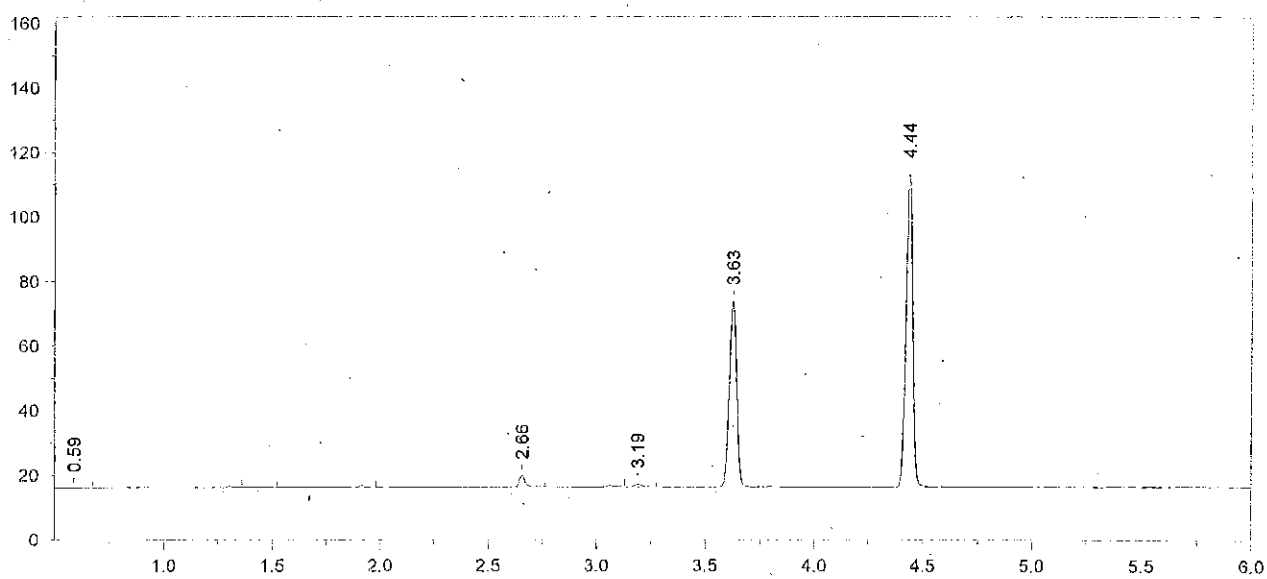


Format File Name = AlcoholVFL.FMT

Today's Date = 6/26/2013
Today's Time = 7:55:55 AM
Bound File Name = VFL06252013.0002.RAW
Sample Name = TMX
Date Taken = 6/25/2013 3:54:38 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06252013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	1.91	Acetaldehyde	387217	0.0720
5	2.01	Methanol	65480	0.1210
6	2.65	Ethanol	102687	0.0860
7	3.06	Acetone	304780	0.0690
8	3.19	Isopropanol	193456	0.0830
9	3.63	t-Butanol	152984	1.0121
10	4.43	n-Propanol	230411	1.0000

13-13-100 46 RLM

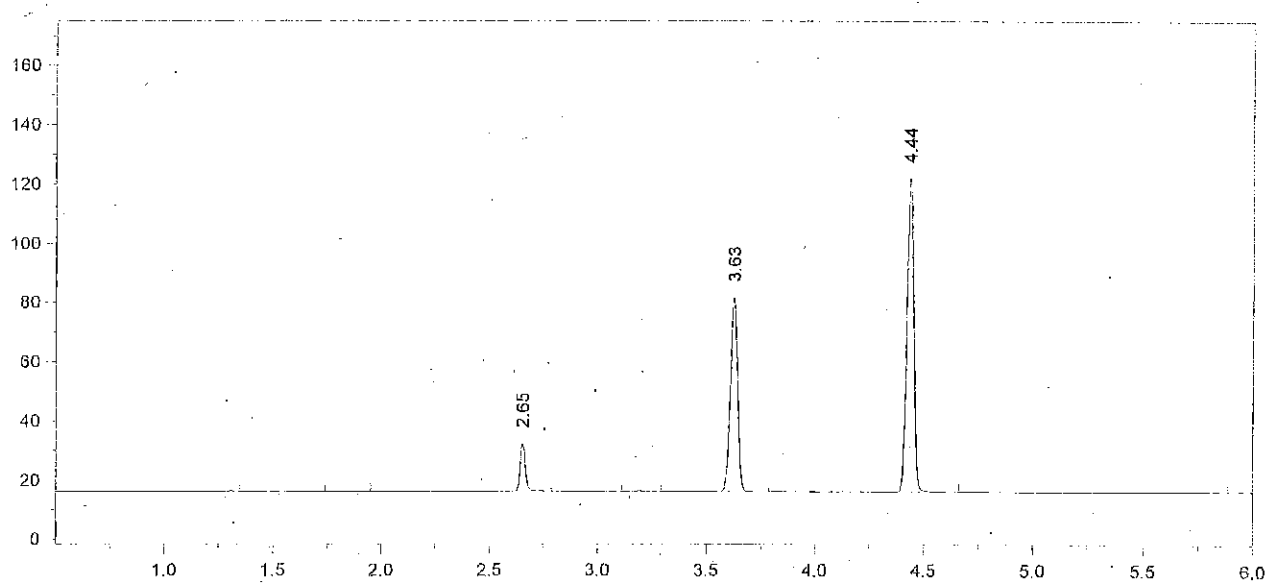


Format File Name = AlcoholVFL.FMT

Today's Date = 6/26/2013
Today's Time = 7:56:00 AM
Bound File Name = VFL06252013.0003.RAW
Sample Name = STD A
Date Taken = 6/25/2013 4:07:49 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06252013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
5	2.66	Ethanol	06071	0.0057 *
7	3.19	Isopropanol	01719	<0.004
8	3.63	t-Butanol	133119	0.9804
9	4.44	n-Propanol	206989	1.0000

13-13-100 47 RLM



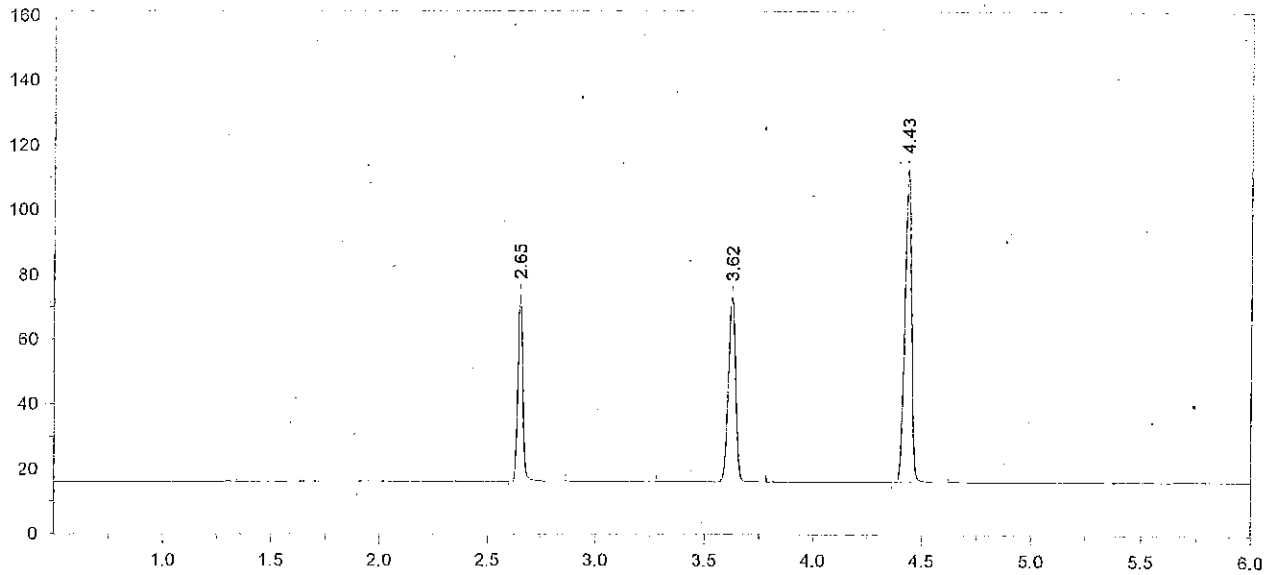
Format File Name = AlcoholVFL.FMT

Today's Date = 6/26/2013
Today's Time = 7:56:06 AM
Bound File Name = VFL06252013.0004.RAW
Sample Name = STD B
Date Taken = 6/25/2013 4:26:02 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06252013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
5	2.65	Ethanol	25557	0.0218 *
8	3.63	t-Butanol	151744	1.0218
9	4.44	n-Propanol	226373	1.0000

13-13-100 48 RRM

Chrom Perfect Chromatogram Report

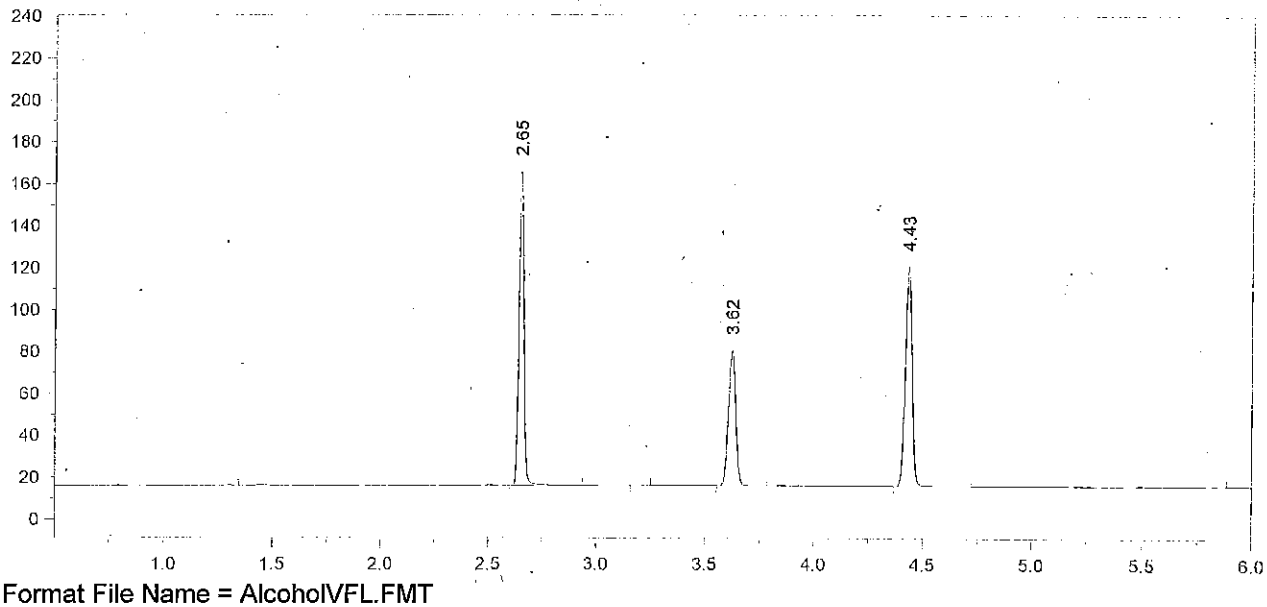


Format File Name = AlcoholVFL.FMT

Today's Date = 6/26/2013
Today's Time = 7:56:13 AM
Bound File Name = VFL06252013.0005.RAW
Sample Name = STD C
Date Taken = 6/25/2013 4:40:01 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06252013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	90166	0.0846 *
5	3.62	t-Butanol	132673	0.9830
6	4.43	n-Propanol	205741	1.0000

13-13-100 49 RLm

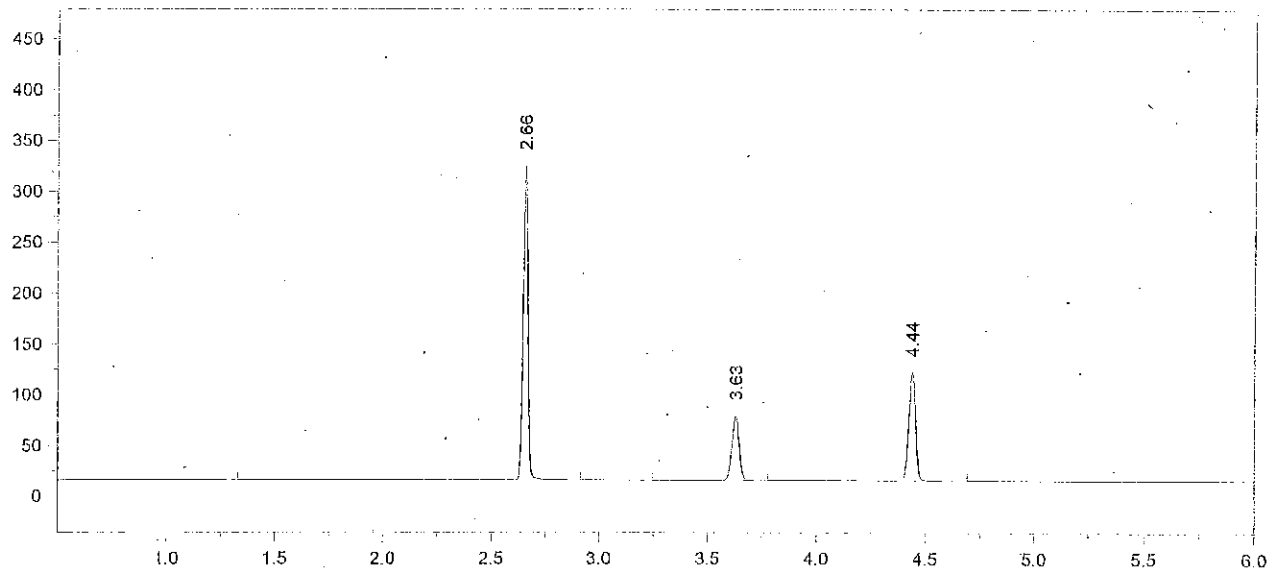


Format File Name = AlcoholVFL.FMT

Today's Date = 6/26/2013
Today's Time = 7:56:18 AM
Bound File Name = VFL06252013.0006.RAW
Sample Name = STD D
Date Taken = 6/25/2013 4:57:27 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06252013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	232164	0.2002 *
5	3.62	t-Butanol	149548	1.0190
6	4.43	n-Propanol	223725	1.0000

13-13-100 50 RLM

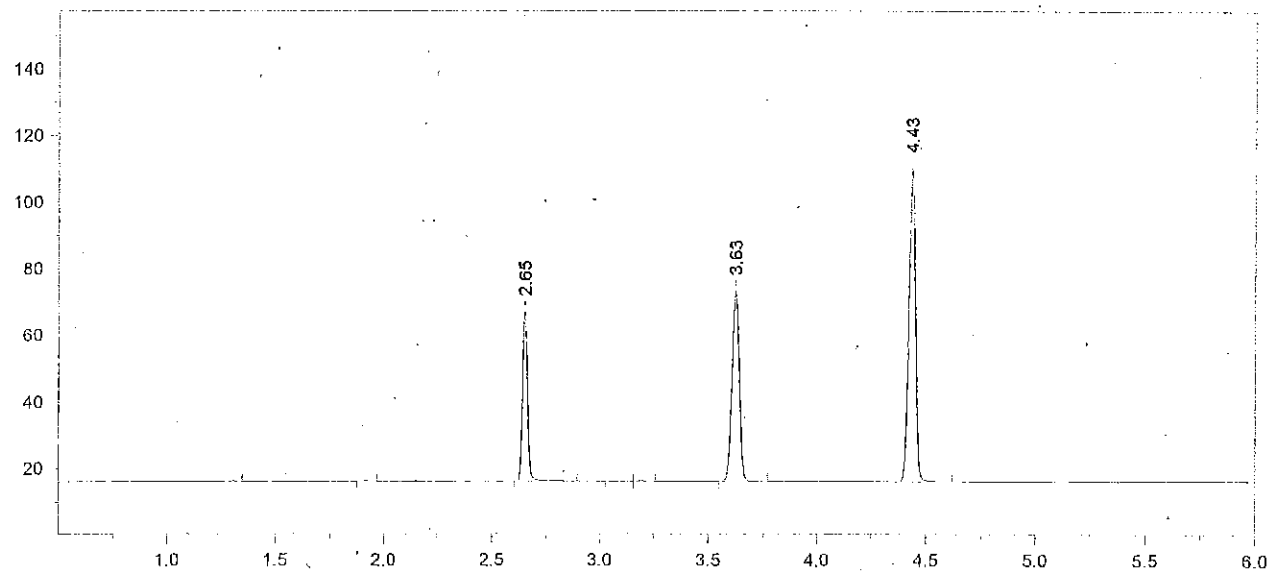


Format File Name = AlcoholVFL.FMT

Today's Date = 6/26/2013
Today's Time = 7:56:25 AM
Bound File Name = VFL06252013.0007.RAW
Sample Name = STD E
Date Taken = 6/25/2013 5:12:20 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06252013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	474517	0.4043 *
5	3.63	t-Butanol	146171	0.9838
6	4.44	n-Propanol	226495	1.0000

13-13-100 51 RZM

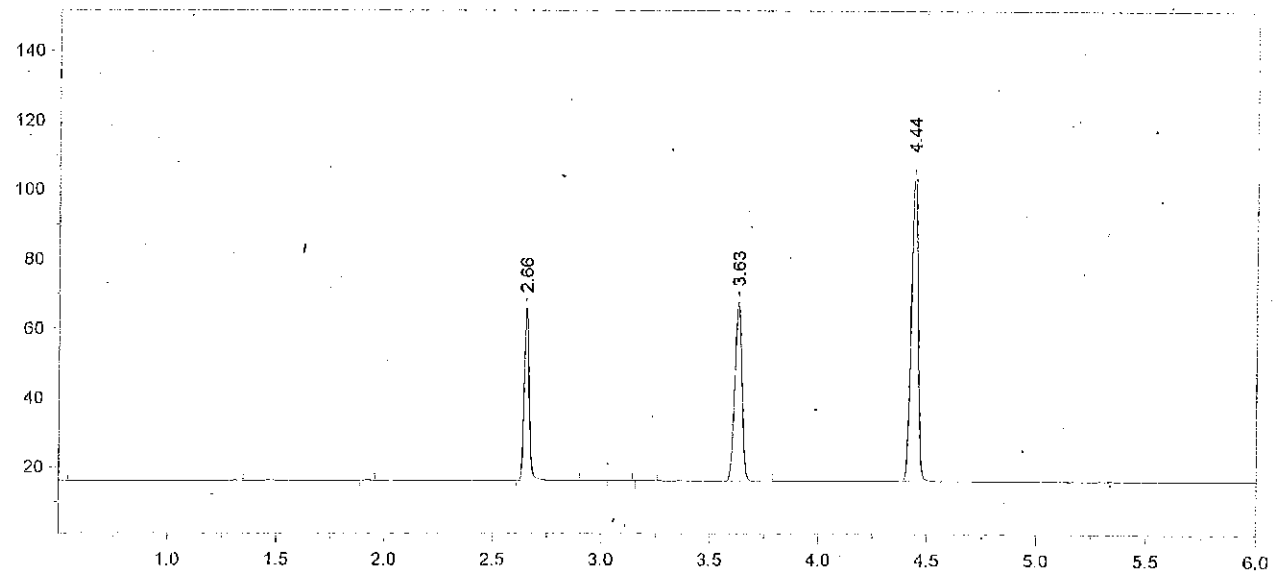


Format File Name = AlcoholVFL.FMT

Today's Date = 6/25/2013
Today's Time = 5:28:57 PM
Bound File Name = VFL06252013.0008.RAW
Sample Name = WB
Date Taken = 6/25/2013 5:28:51 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06252013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	2.65	Ethanol	80502	0.0781 *
7	3.63	t-Butanol	132761	1.0169
8	4.43	n-Propanol	199013	1.0000

13-13-100 52 RZM



Format File Name = AlcoholVFL.FMT

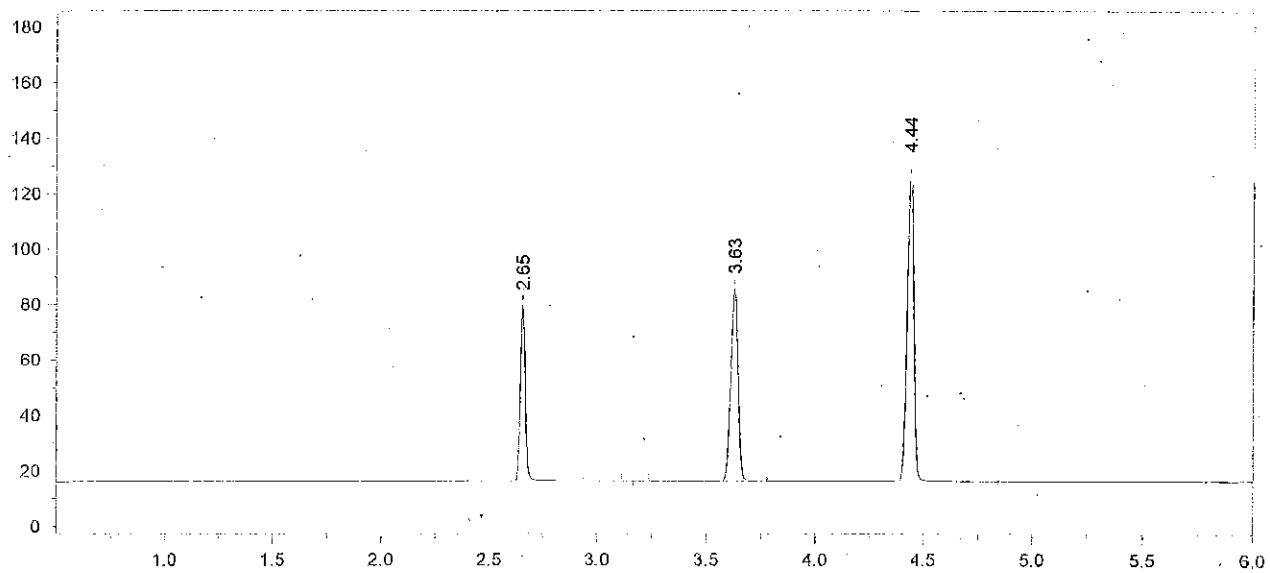
Today's Date = 6/25/2013
Today's Time = 5:42:44 PM
Bound File Name = VFL06252013.0009.RAW
Sample Name = WB
Date Taken = 6/25/2013 5:42:37 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06252013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	2.66	Ethanol	78744	0.0792 *
7	3.63	t-Butanol	119850	0.9524
8	4.44	n-Propanol	191820	1.0000

Avg #8 + #9 = 0.078
RLM 6/26/13

WB: Cliniqa 0911120A
target value: 0.076
acceptance range: 0.068-0.083
RLM 6/26/13

13-13-100 53 RLM

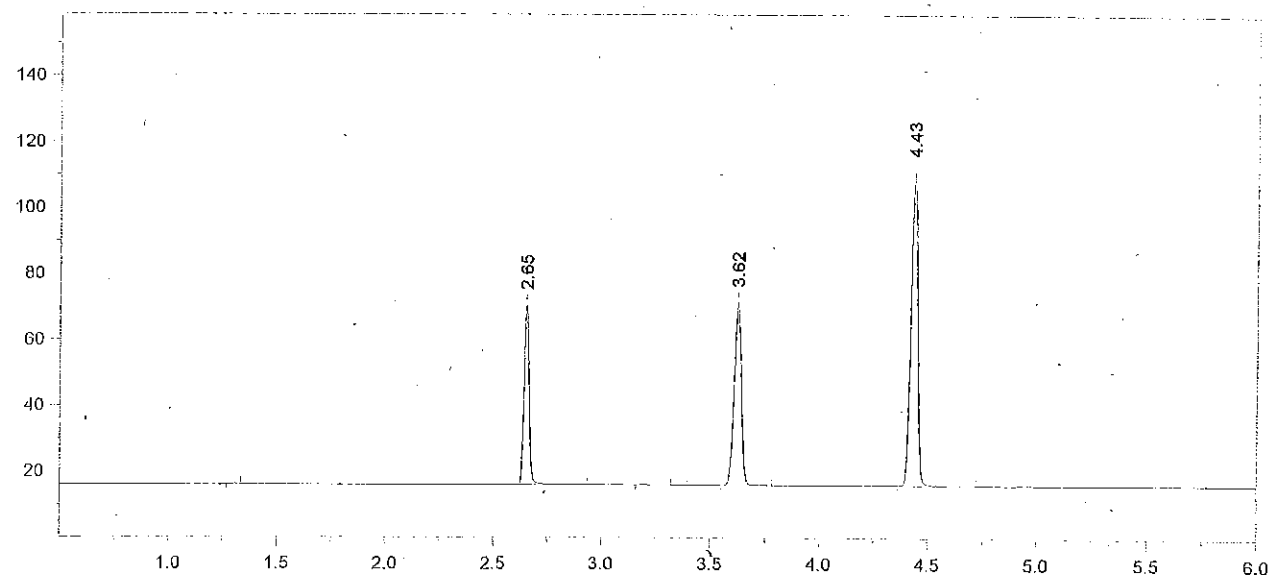


Format File Name = AlcoholVFL.FMT

Today's Date = 6/25/2013
Today's Time = 5:58:37 PM
Bound File Name = VFL06252013.0010.RAW
Sample Name = AQ QC
Date Taken = 6/25/2013 5:58:33 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06252013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	98109	0.0787 *
6	3.63	t-Butanol	160430	1.0171
7	4.44	n-Propanol	240433	1.0000

13-13-100 54 RLM



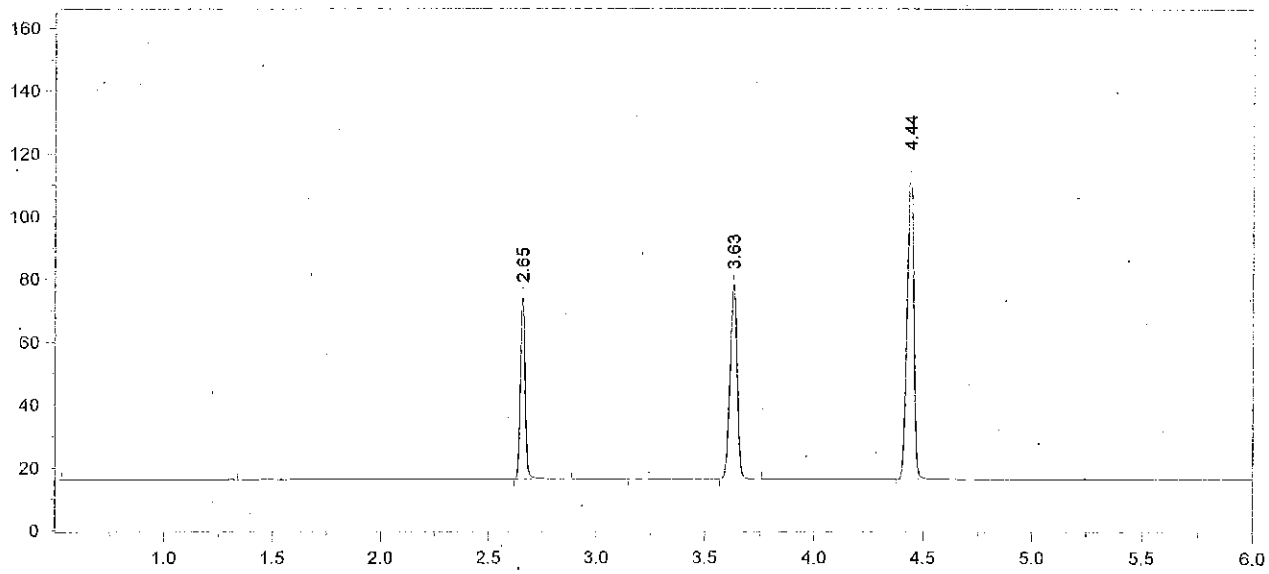
Format File Name = AlcoholVFL.FMT

Today's Date = 6/25/2013
Today's Time = 6:13:37 PM
Bound File Name = VFL06252013.0011.RAW
Sample Name = AQ QC
Date Taken = 6/25/2013 6:13:29 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06252013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	84650	0.0808 *
5	3.62	t-Butanol	128200	0.9670
6	4.43	n-Propanol	202092	1.0000

Avg #10 + #11 = 0.080
RZM 6/26/13

13-13-100 55 RZM

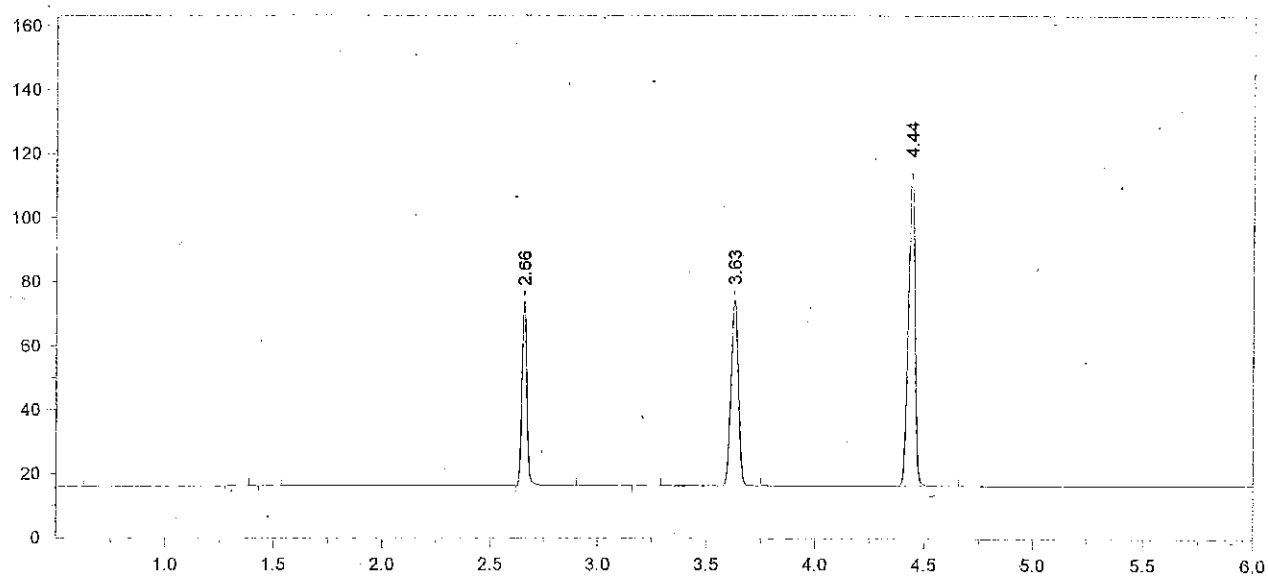


Format File Name = AlcoholVFL.FMT

Today's Date = 6/25/2013
Today's Time = 6:30:12 PM
Bound File Name = VFL06252013.0012.RAW
Sample Name = CCS
Date Taken = 6/25/2013 6:30:07 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06252013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	90587	0.0825 *
5	3.63	t-Butanol	143120	1.0297
6	4.44	n-Propanol	211875	1.0000

13-13-100 56 RLM



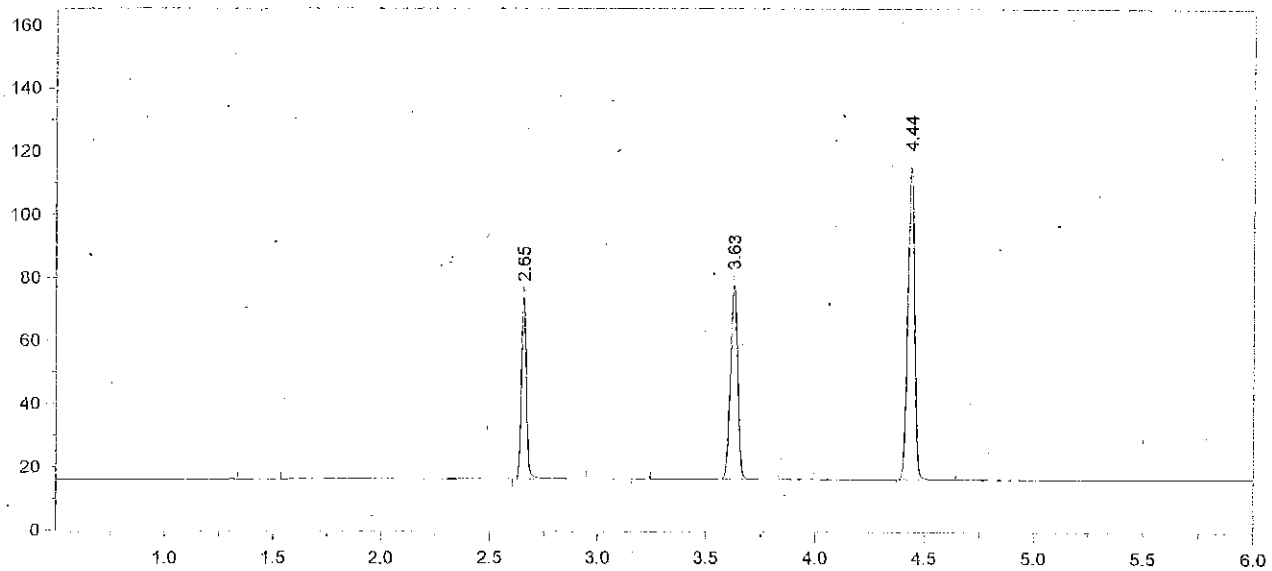
Format File Name = AlcoholVFL.FMT

Today's Date = 6/25/2013
Today's Time = 6:44:11 PM
Bound File Name = VFL06252013.0013.RAW
Sample Name = CCS
Date Taken = 6/25/2013 6:44:05 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06252013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	2.66	Ethanol	90772	0.0839 *
6	3.63	t-Butanol	134683	0.9831
7	4.44	n-Propanol	208841	1.0000

Avg #12 + #13 = 0.083
RZM 6/26/13

13-13-100 57 RZM

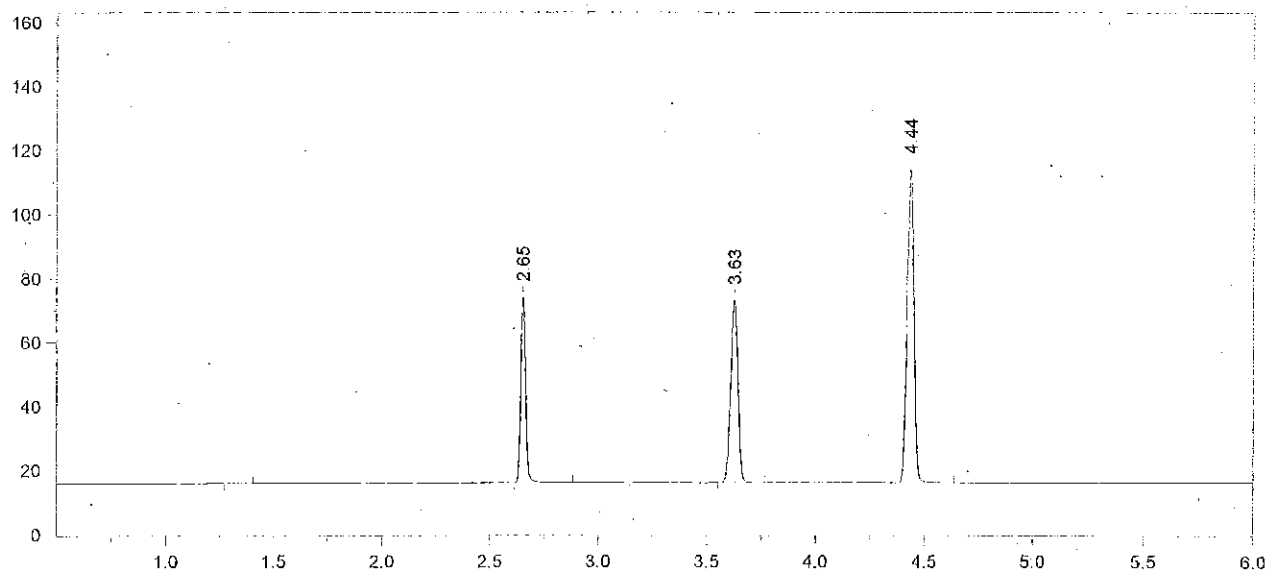


Format File Name = AlcoholVFL.FMT

Today's Date = 6/25/2013
Today's Time = 9:38:39 PM
Bound File Name = VFL06252013.0024.RAW
Sample Name = CCS
Date Taken = 6/25/2013 9:38:33 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06252013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	2.65	Ethanol	90753	0.0832 *
6	3.63	t-Butanol	142804	1.0337
7	4.44	n-Propanol	210581	1.0000

13-13-100 58 RLM



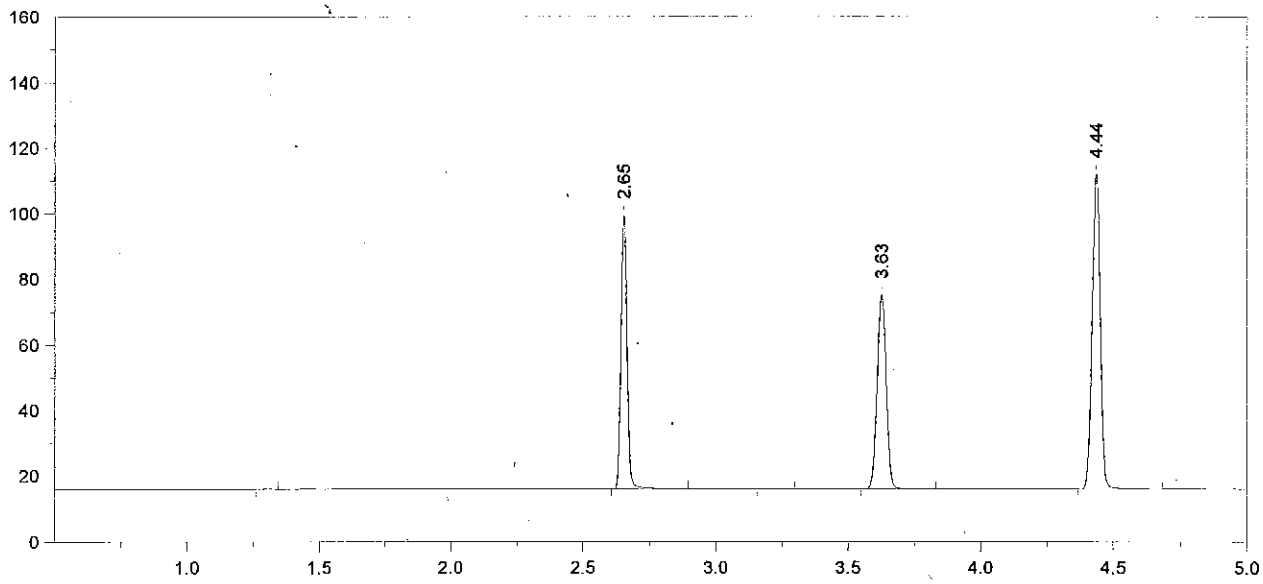
Format File Name = AlcoholVFL.FMT

Today's Date = 6/25/2013
Today's Time = 9:51:50 PM
Bound File Name = VFL06252013.0025.RAW
Sample Name = CCS
Date Taken = 6/25/2013 9:51:46 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06252013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	90872	0.0843 *
5	3.63	t-Butanol	131750	0.9660
6	4.44	n-Propanol	207900	1.0000

Avg #24 + #25 = 0.084
RKM 6/26/13

13-13-100 59 RKM

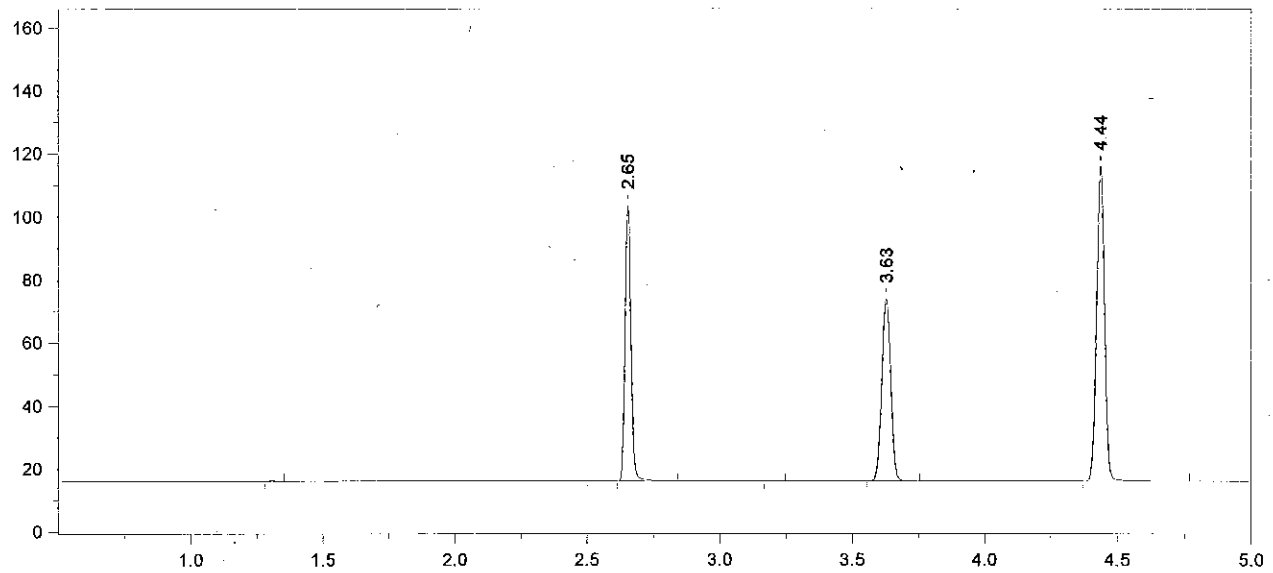


Format File Name = simsoln-JFH.met.FMT

Today's Date = 6/25/2013 Today's Time = 10:10:10 PM
Bound File Name = VFL06252013.0026.RAW
Sample Name = 0.1 RLM
Date Taken = 6/25/2013 10:10:00 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL06252013.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	129398	0.1217	0.0993
5	3.63	t-Butanol	137201	1.0191	0.8318
6	4.44	n-Propanol	205218	1.0000	0.8162

+RLM 6/26/13 13-13-100 60 RLM

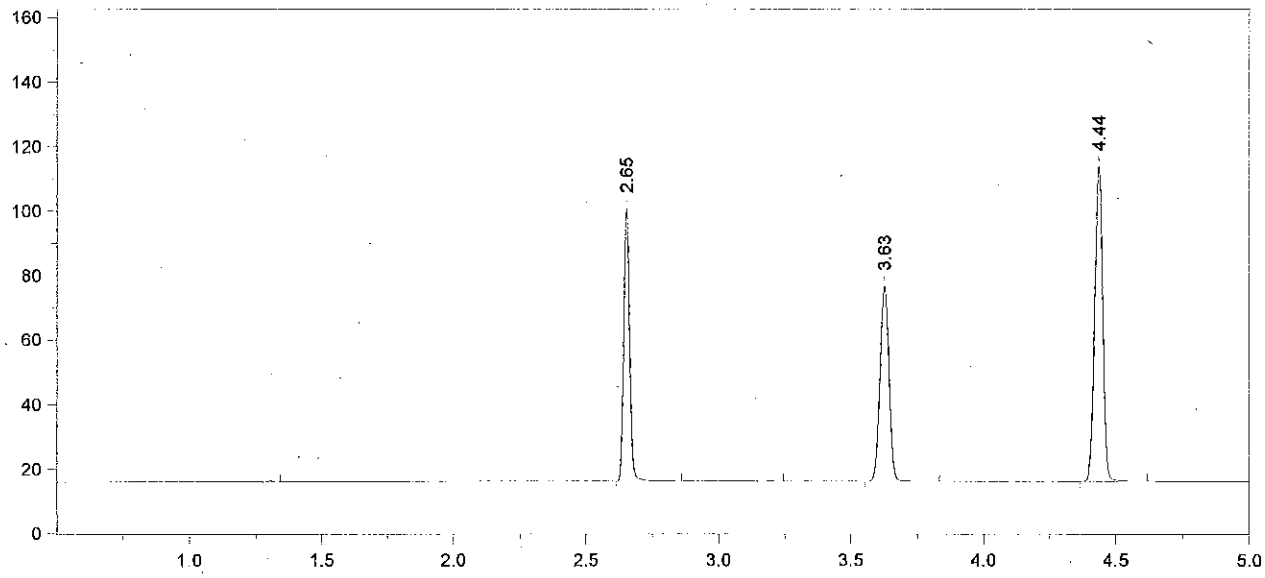


Format File Name = simsoln-JFH.met.FMT

Today's Date = 6/25/2013 Today's Time = 10:24:13 PM
Bound File Name = VFL06252013.0027.RAW
Sample Name = 0.1 RLM
Date Taken = 6/25/2013 10:24:03 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL06252013.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	135775	0.1236	0.1009
5	3.63	t-Butanol	134238	0.9657	0.7882
6	4.44	n-Propanol	211895	1.0000	0.8162

13-13-100 61 RLM

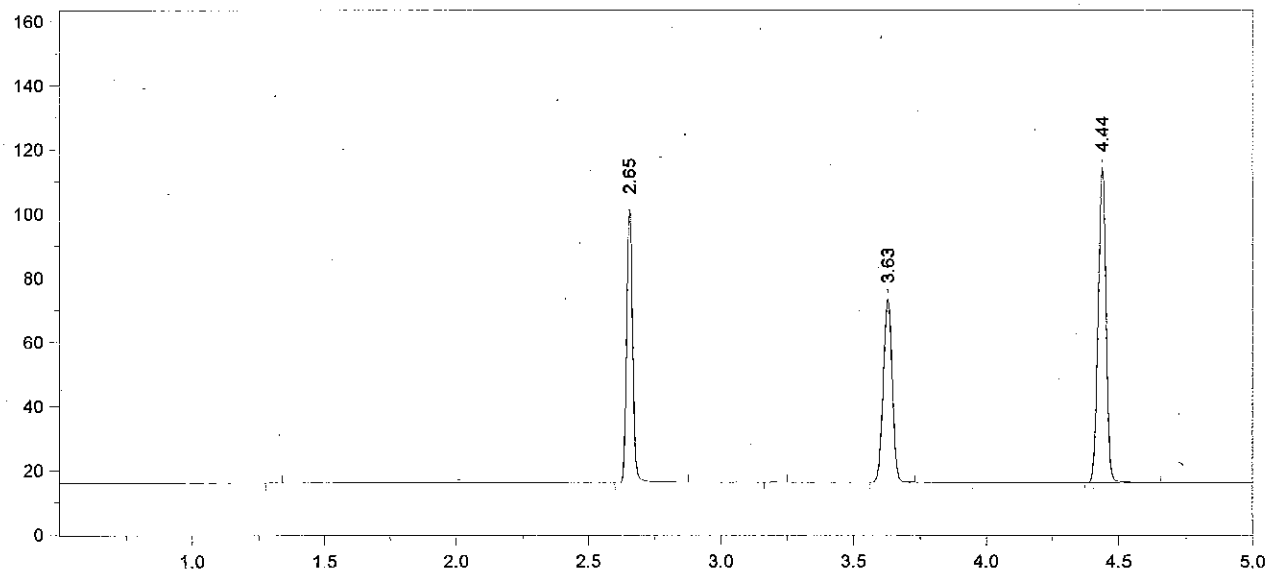


Format File Name = simsoln-JFH.met.FMT

Today's Date = 6/25/2013 Today's Time = 10:41:28 PM
Bound File Name = VFL06252013.0028.RAW
Sample Name = 0.1 RLM
Date Taken = 6/25/2013 10:41:24 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL06252013.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	130845	0.1210	0.0988
5	3.63	t-Butanol	139899	1.0223	0.8344
6	4.44	n-Propanol	208604	1.0000	0.8162

13-13-100 62 RLM

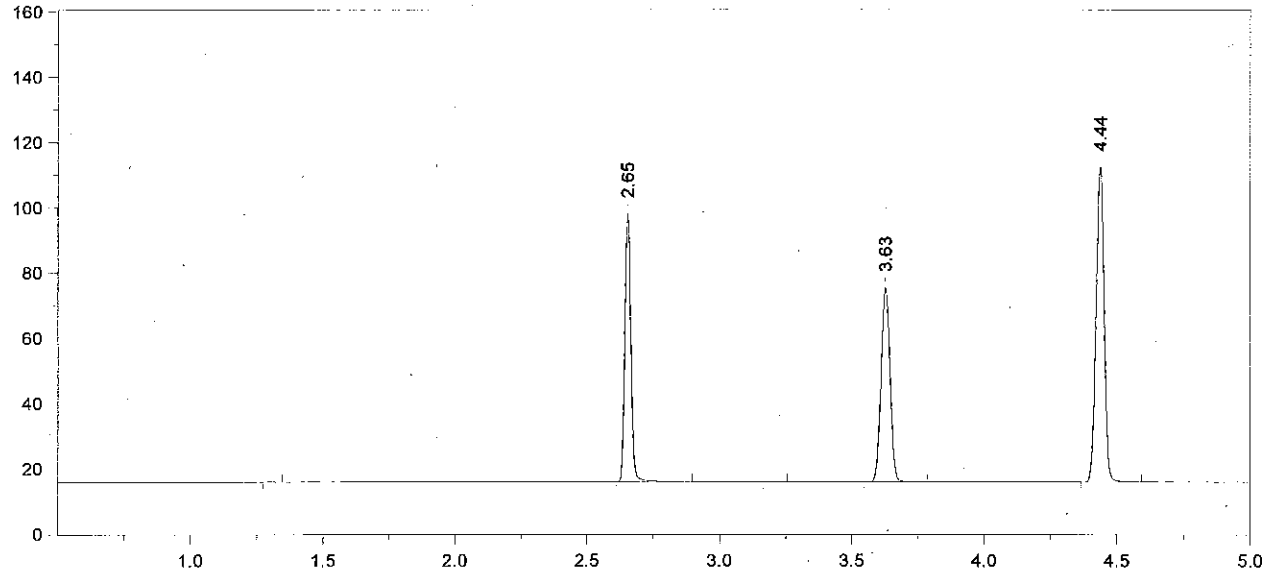


Format File Name = simsoln-JFH.met.FMT

Today's Date = 6/25/2013 Today's Time = 10:55:28 PM
Bound File Name = VFL06252013.0029.RAW
Sample Name = 0.1 RLM
Date Taken = 6/25/2013 10:55:22 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL06252013.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	133475	0.1230	0.1004
5	3.63	t-Butanol	132218	0.9627	0.7857
6	4.44	n-Propanol	209365	1.0000	0.8162

13-13-100 63 RLM

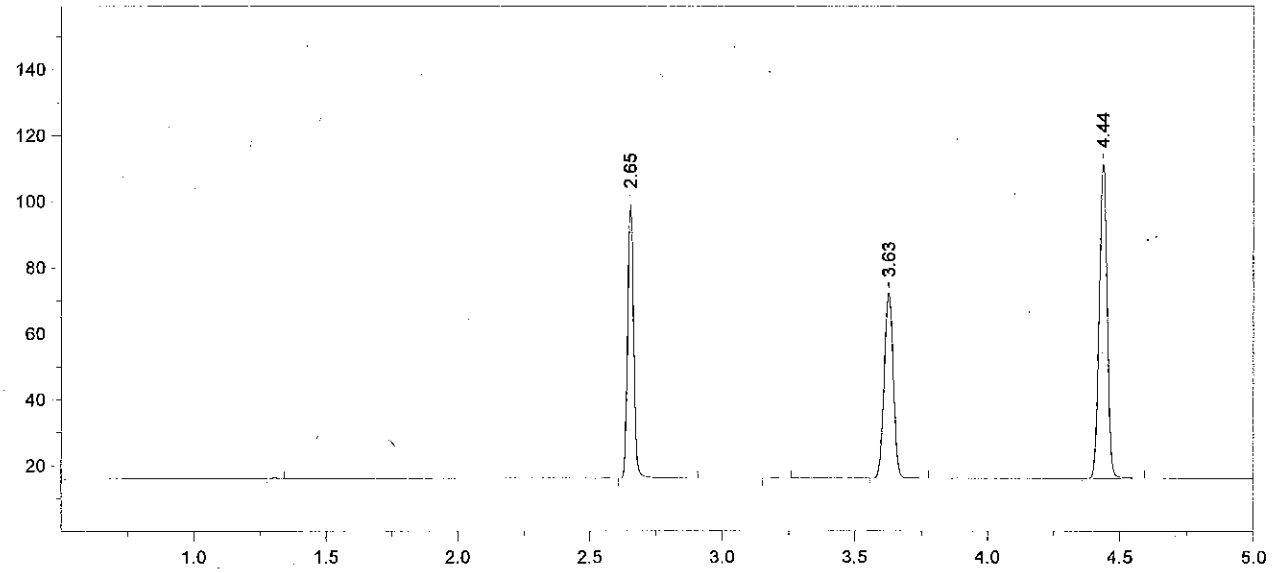


Format File Name = simsoln-JFH.met.FMT

Today's Date = 6/25/2013 Today's Time = 11:12:59 PM
Bound File Name = VFL06252013.0030.RAW
Sample Name = 0.1 RLM
Date Taken = 6/25/2013 11:12:49 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL06252013.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	128210	0.1212	0.0989
5	3.63	t-Butanol	137718	1.0286	0.8395
6	4.44	n-Propanol	204105	1.0000	0.8162

13-13-100 64 RLM

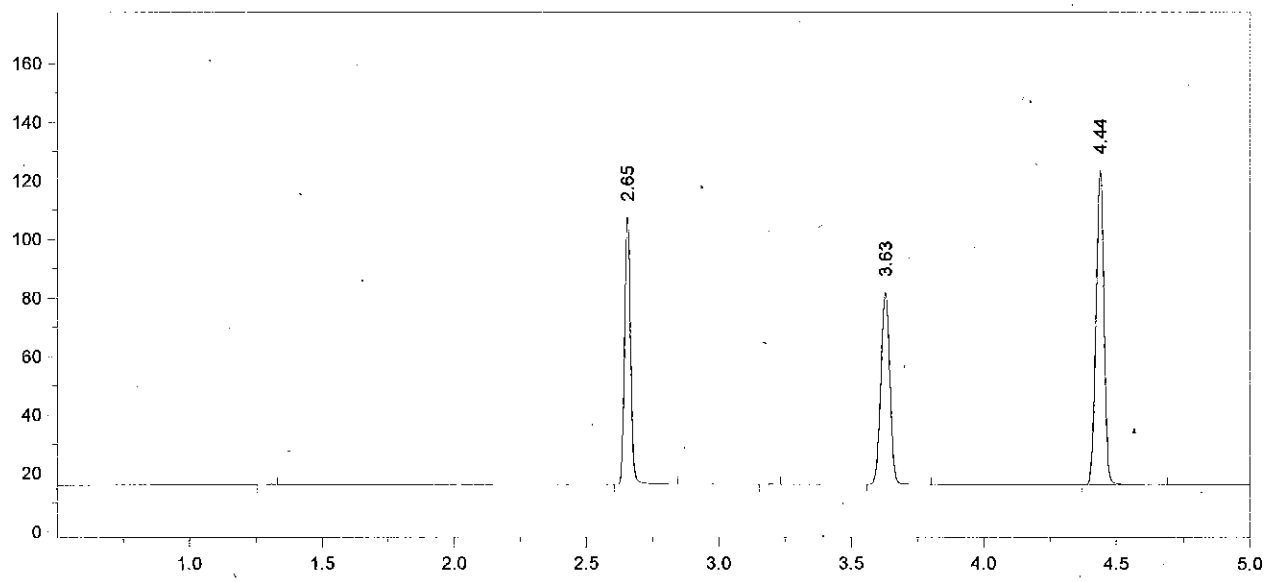


Format File Name = simsoln-JFH.met.FMT

Today's Date = 6/25/2013 Today's Time = 11:26:40 PM
Bound File Name = VFL06252013.0031.RAW
Sample Name = 0.1 RLM
Date Taken = 6/25/2013 11:26:32 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL06252013.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	129449	0.1234	0.1007
5	3.63	t-Butanol	130246	0.9811	0.8008
6	4.44	n-Propanol	202366	1.0000	0.8162

13-13-100 65 RLM

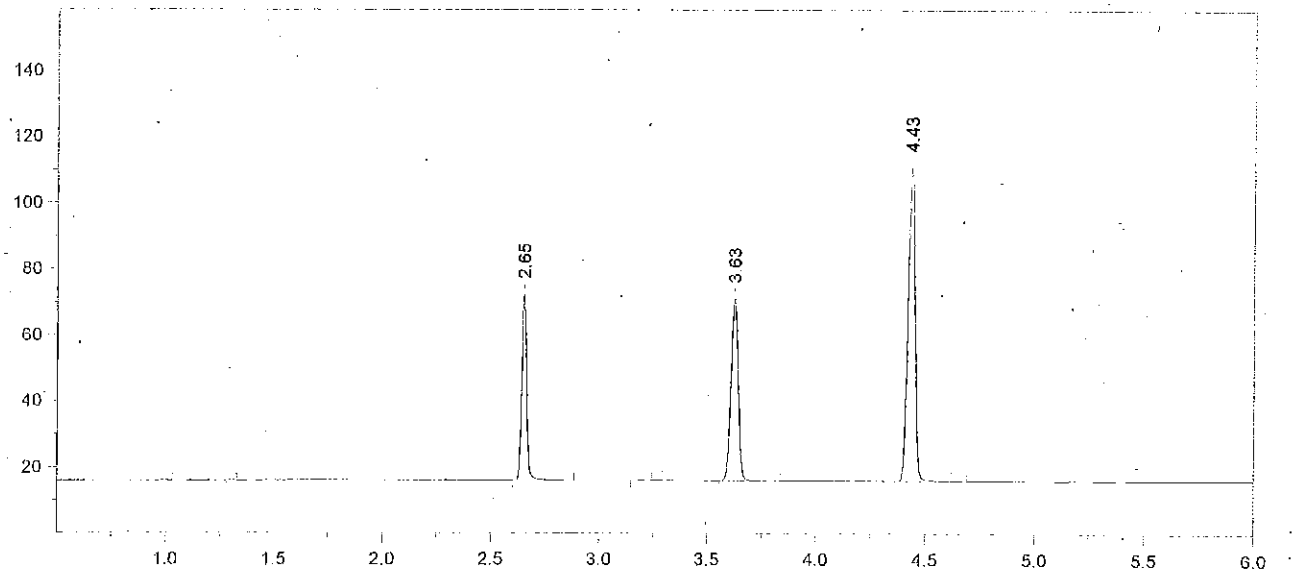


Format File Name = simsoln-JFH.met.FMT

Today's Date = 6/25/2013 Today's Time = 11:42:38 PM
Bound File Name = VFL06252013.0032.RAW
Sample Name = 0.1 RLM
Date Taken = 6/25/2013 11:42:33 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL06252013.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	141970	0.1200	0.0979
5	3.63	t-Butanol	152466	1.0181	0.8310
6	4.44	n-Propanol	228275	1.0000	0.8162

13-13-100 66 RM

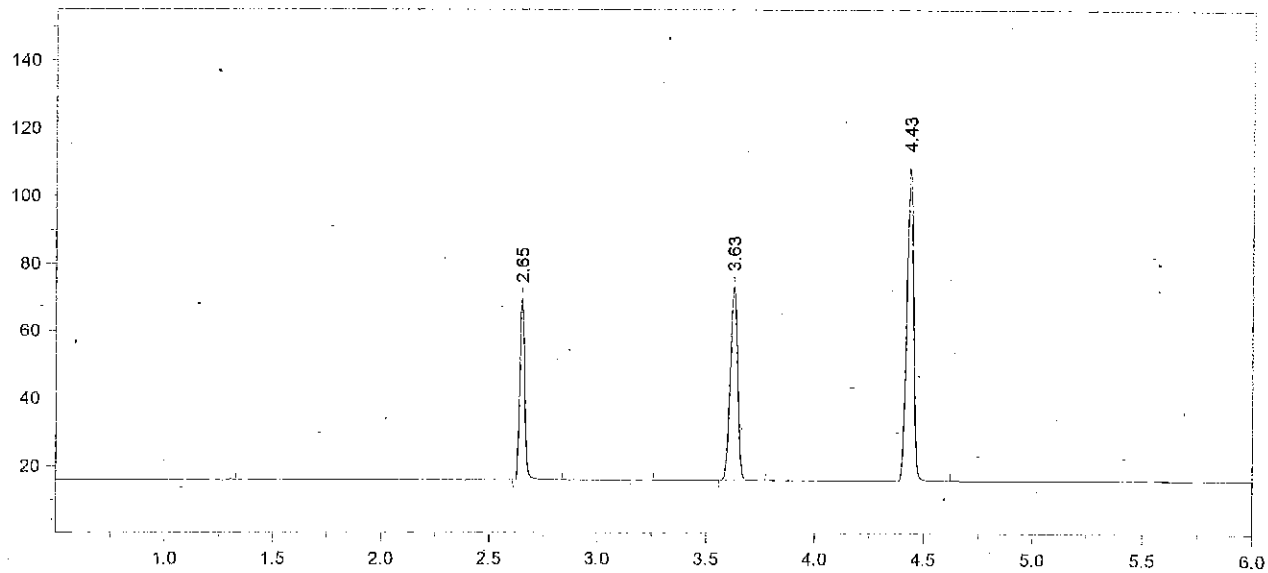


Format File Name = AlcoholVFL.FMT

Today's Date = 6/25/2013
Today's Time = 11:58:05 PM
Bound File Name = VFL06252013.0033.RAW
Sample Name = CCS
Date Taken = 6/25/2013 11:57:59 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06252013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	89117	0.0852 *
5	3.63	t-Butanol	128287	0.9688
6	4.43	n-Propanol	201865	1.0000

13-13-100 67 RLM



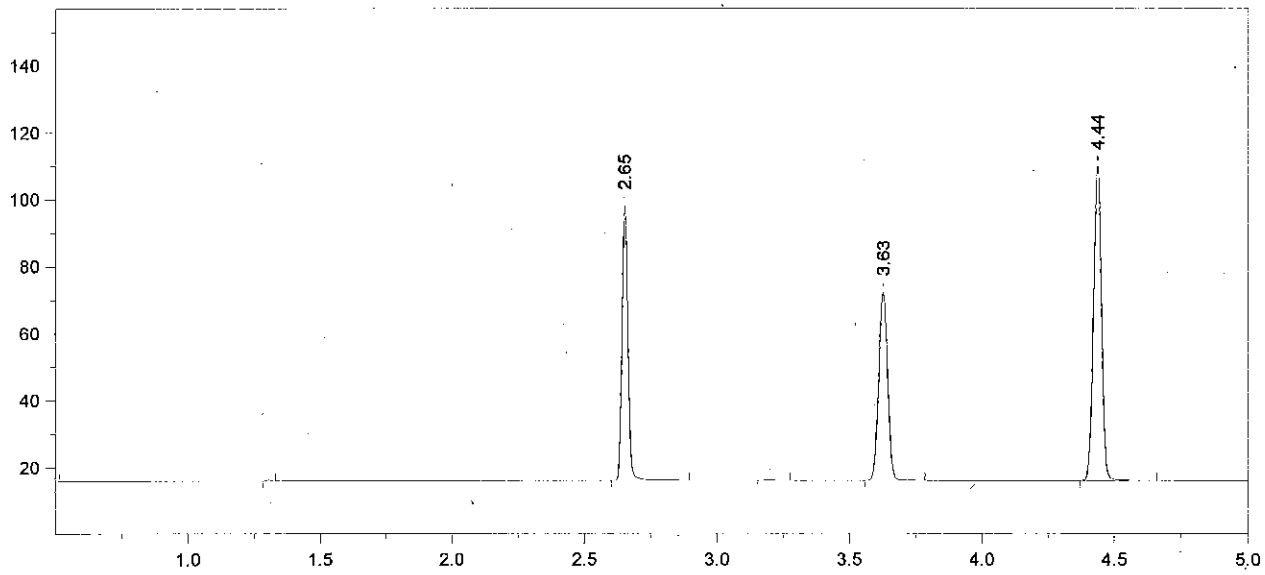
Format File Name = AlcoholVFL.FMT

Today's Date = 6/26/2013
Today's Time = 12:14:12 AM
Bound File Name = VFL06252013.0034.RAW
Sample Name = CCS
Date Taken = 6/26/2013 12:14:05 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06252013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	84503	0.0829 *
5	3.63	t-Butanol	132893	1.0299
6	4.43	n-Propanol	196699	1.0000

Avg #33 + #34 = 0.084
RZM 6/26/13

13-13-100 68 RZM

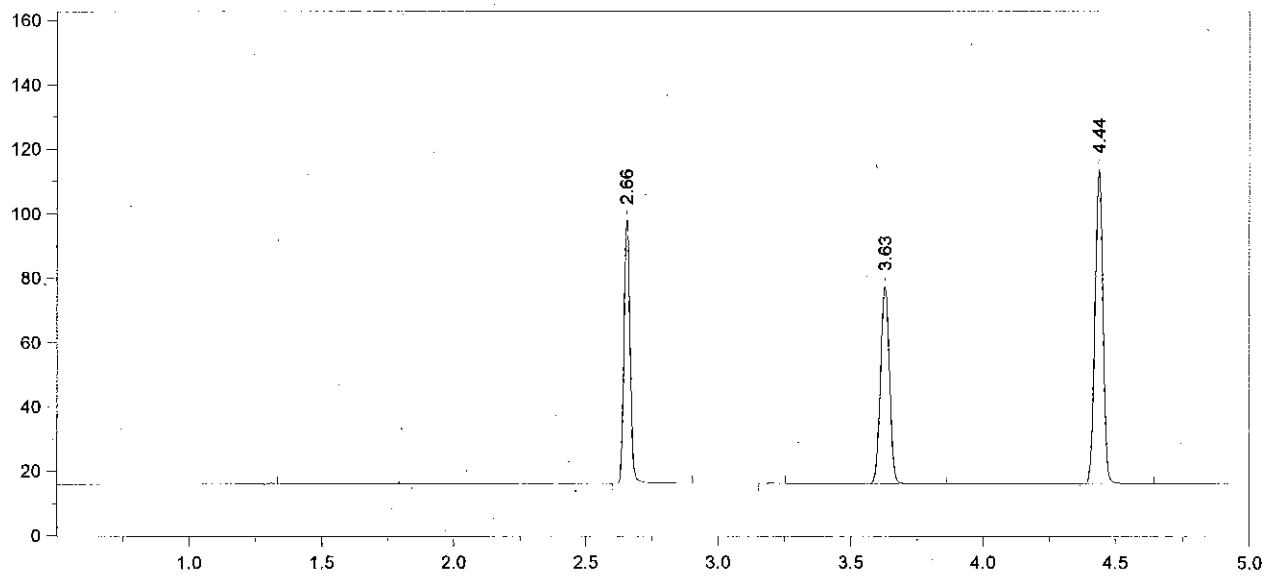


Format File Name = simsoln-JFH.met.FMT

Today's Date = 6/26/2013 Today's Time = 12:27:52 AM
Bound File Name = VFL06252013.0035.RAW
Sample Name = 0.1 ALB
Date Taken = 6/26/2013 12:27:43 AM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL06252013.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	127976	0.1233	0.1006
5	3.63	t-Butanol	130483	0.9932	0.8106
6	4.44	n-Propanol	200266	1.0000	0.8162

13-13-100 69 RLM

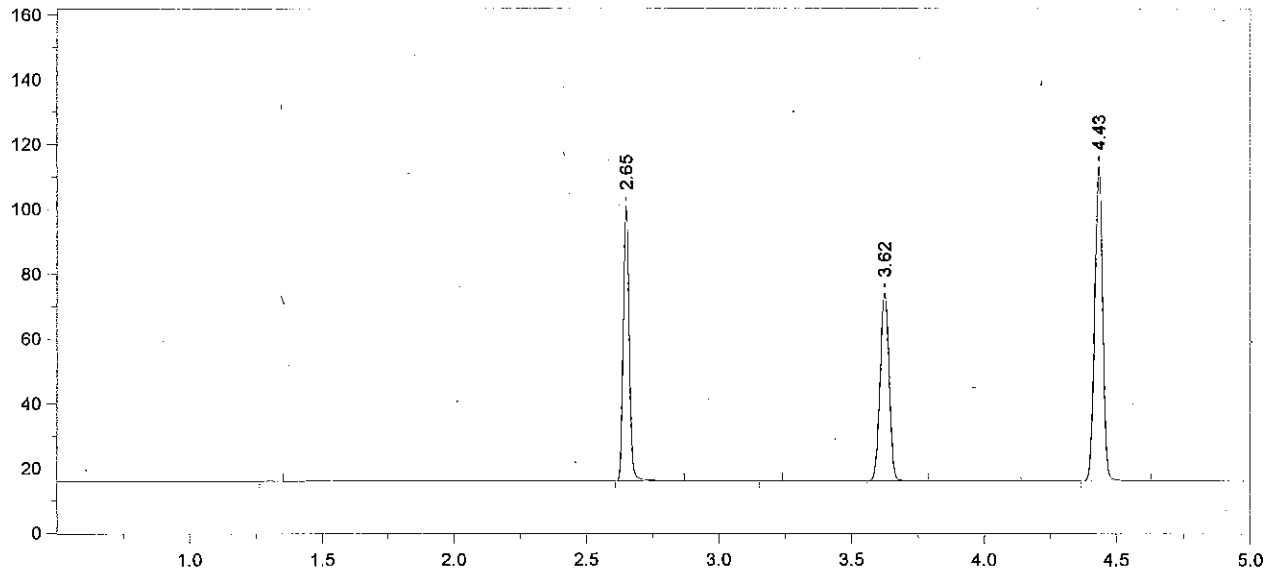


Format File Name = simsoln-JFH.met.FMT

Today's Date = 6/26/2013 Today's Time = 12:45:37 AM
Bound File Name = VFL06252013.0036.RAW
Sample Name = 0.1 ALB
Date Taken = 6/26/2013 12:45:32 AM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL06252013.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.66	Ethanol	128714	0.1201	0.0981
5	3.63	t-Butanol	141996	1.0471	0.8547
6	4.44	n-Propanol	206716	1.0000	0.8162

13-13-100 70 RKM

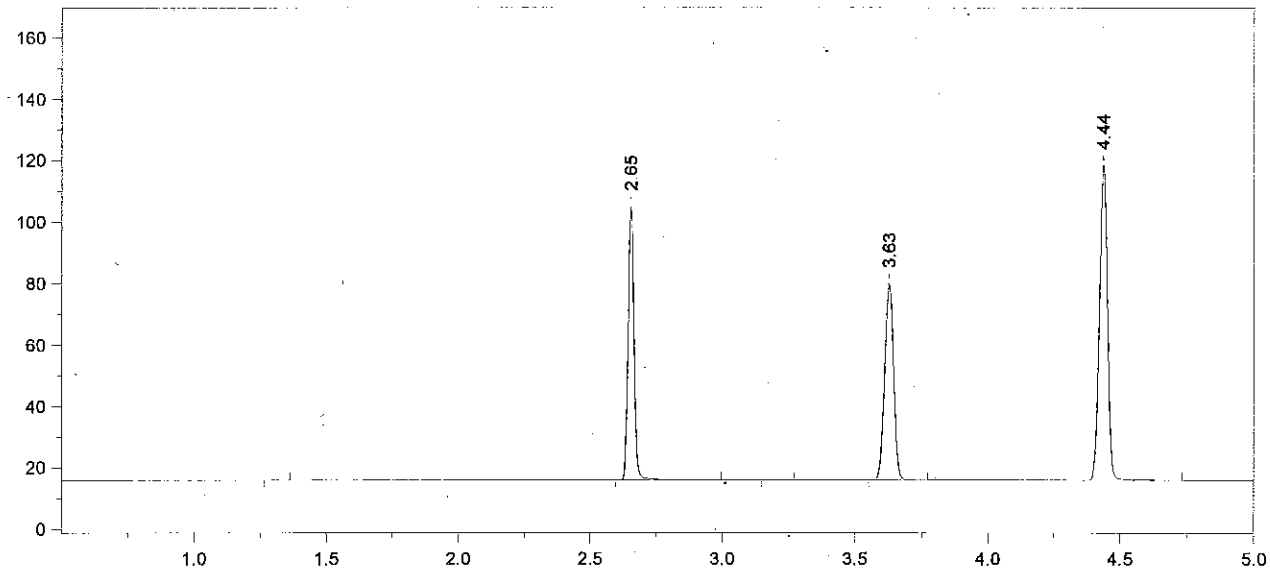


Format File Name = simsoln-JFH.met.FMT

Today's Date = 6/26/2013 Today's Time = 12:59:36 AM
Bound File Name = VFL06252013.0037.RAW
Sample Name = 0.1 ALB
Date Taken = 6/26/2013 12:59:27 AM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL06252013.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	131865	0.1237	0.1009
5	3.62	t-Butanol	134366	0.9955	0.8125
6	4.43	n-Propanol	205750	1.0000	0.8162

13-13-100 71 TKM

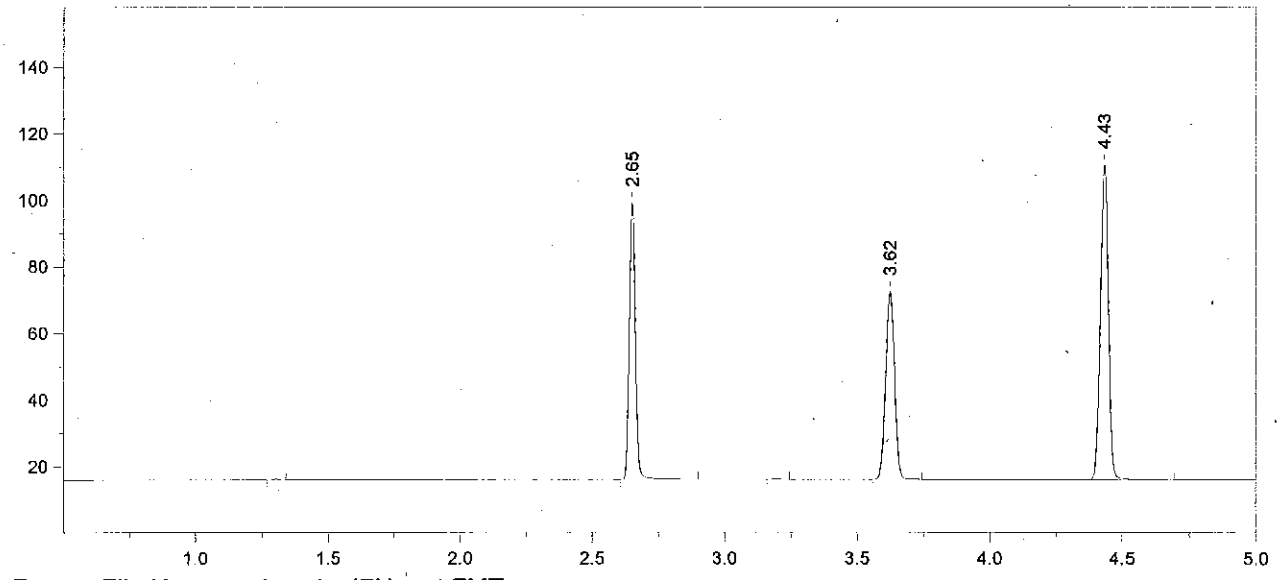


Format File Name = simsoln-JFH.met.FMT

Today's Date = 6/26/2013 Today's Time = 1:17:06 AM
Bound File Name = VFL06252013.0038.RAW
Sample Name = 0.1 ALB
Date Taken = 6/26/2013 1:17:01 AM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL06252013.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	138211	0.1223	0.0998
5	3.63	t-Butanol	148440	1.0373	0.8466
6	4.44	n-Propanol	218145	1.0000	0.8162

13-13-100 72 TLM

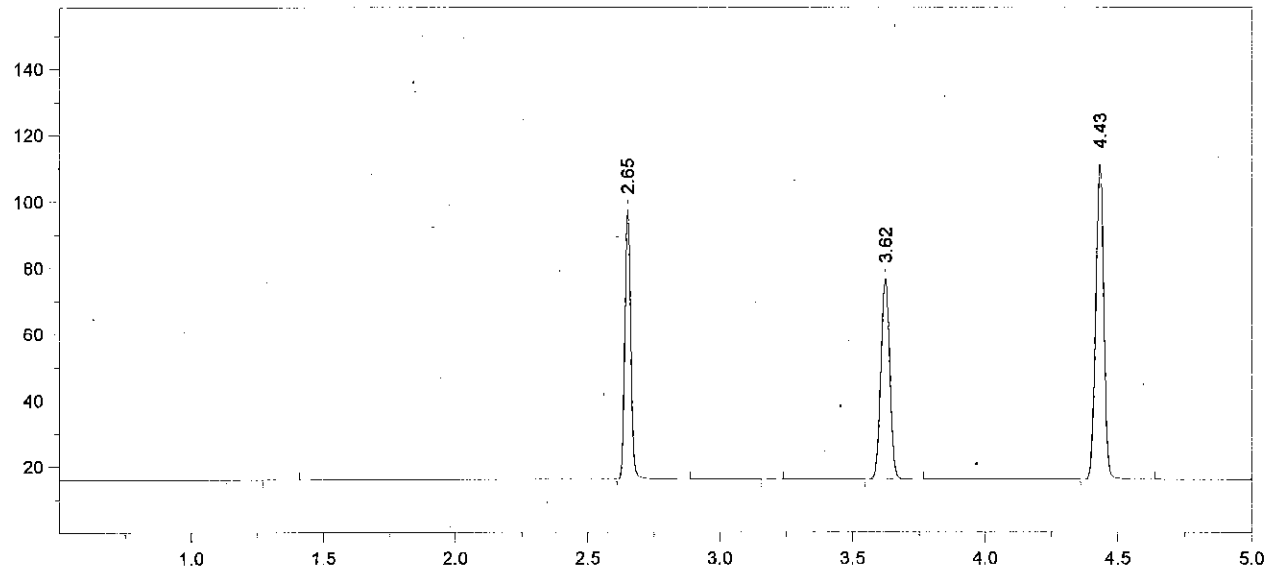


Format File Name = simsoln-JFH.met.FMT

Today's Date = 6/26/2013 Today's Time = 1:30:57 AM
Bound File Name = VFL06252013.0039.RAW
Sample Name = 0.1 ALB
Date Taken = 6/26/2013 1:30:47 AM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL06252013.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	129460	0.1241	0.1013
5	3.62	t-Butanol	130758	0.9904	0.8083
6	4.43	n-Propanol	201260	1.0000	0.8162

13-13-100 73

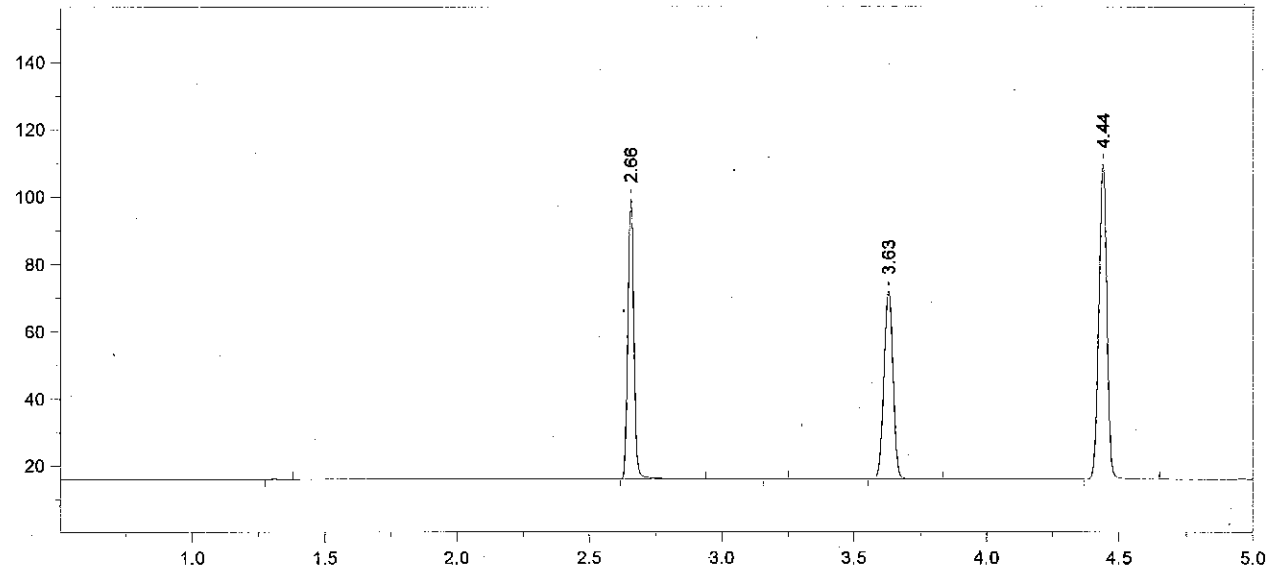


Format File Name = simsoln-JFH.met.FMT

Today's Date = 6/26/2013 Today's Time = 1:48:31 AM
Bound File Name = VFL06252013.0040.RAW
Sample Name = 0.1 ALB
Date Taken = 6/26/2013 1:48:26 AM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL06252013.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.65	Ethanol	126266	0.1202	0.0981
5	3.62	t-Butanol	140239	1.0549	0.8610
6	4.43	n-Propanol	202655	1.0000	0.8162

13-13-100 74 TRm

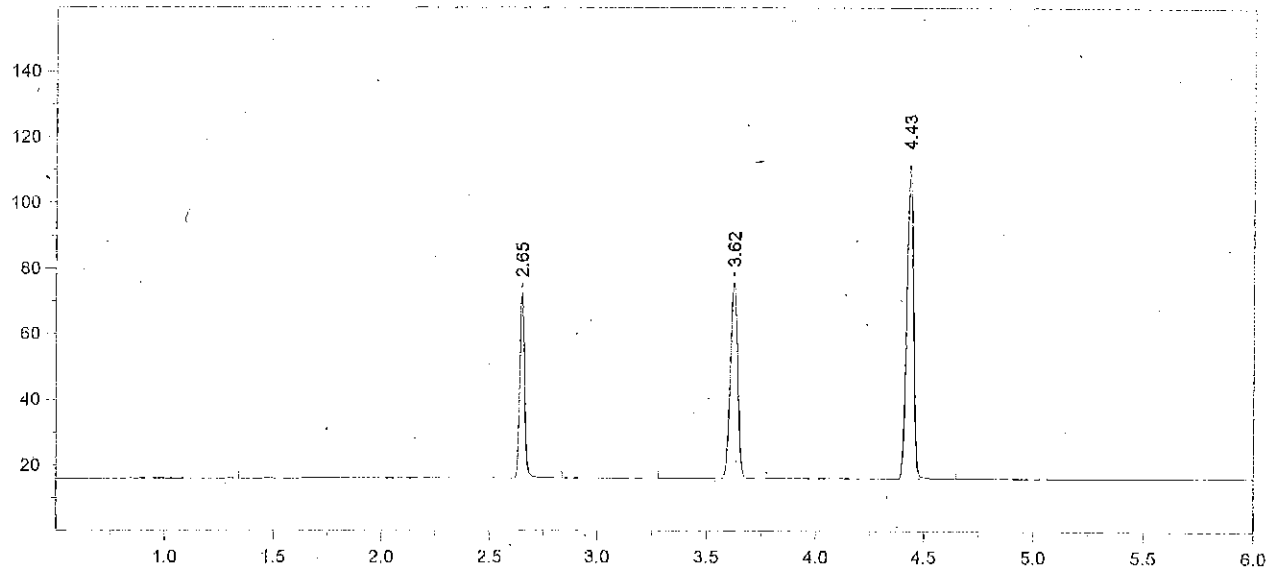


Format File Name = simsoln-JFH.met.FMT

Today's Date = 6/26/2013 Today's Time = 2:01:47 AM
Bound File Name = VFL06252013.0041.RAW
Sample Name = 0.1 ALB
Date Taken = 6/26/2013 2:01:38 AM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL06252013.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.66	Ethanol	130094	0.1255	0.1024
5	3.63	t-Butanol	129821	0.9891	0.8073
6	4.44	n-Propanol	200079	1.0000	0.8162

13-13-100 75 RRm

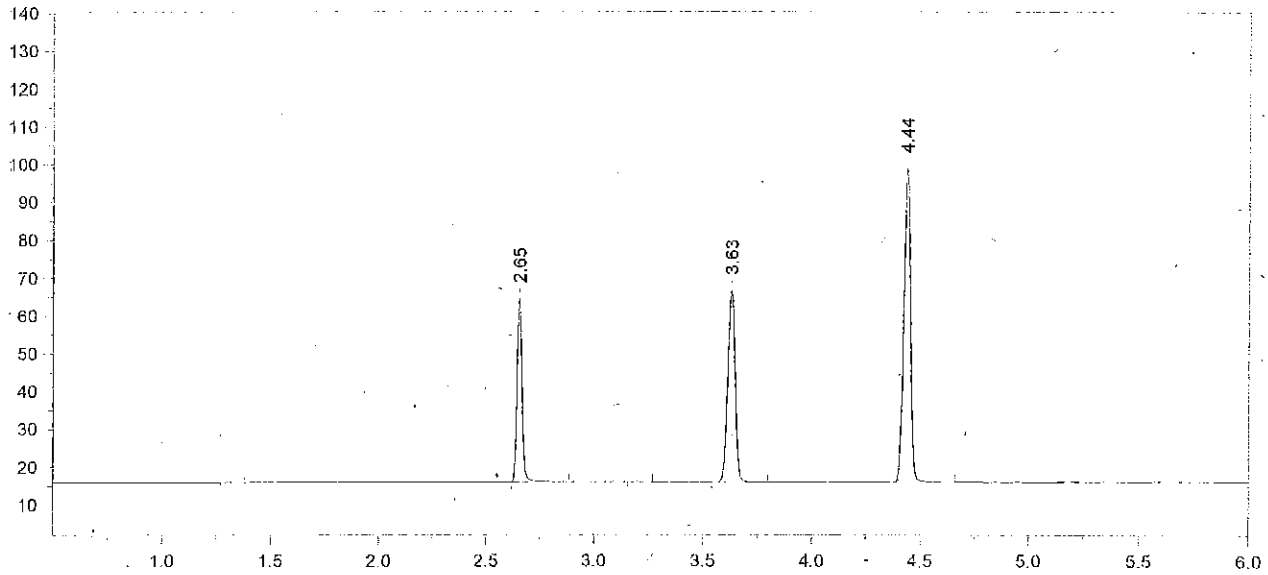


Format File Name = AlcoholVFL.FMT

Today's Date = 6/26/2013
Today's Time = 2:20:02 AM
Bound File Name = VFL06252013.0042.RAW
Sample Name = CCS
Date Taken = 6/26/2013 2:19:52 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06252013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	87672	0.0829
5	3.62	t-Butanol	138005	1.0313
6	4.43	n-Propanol	203991	1.0000

13-13-100 76 R23n



Format File Name = AlcoholVFL.FMT

Today's Date = 6/26/2013
Today's Time = 2:33:55 AM
Bound File Name = VFL06252013.0043.RAW
Sample Name = CCS
Date Taken = 6/26/2013 2:33:48 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL06252013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	76398	0.0838 *
5	3.63	t-Butanol	117940	1.0214
6	4.44	n-Propanol	176010	1.0000

Avg #42 + #43 = 0.083
RKM 6/26/13

13-13-100 77 RKM