VERMONT FORENSIC LABORATORY

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Certificate of Analysis of DataMaster External Standard Solution

On 10/31/2012, 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 12-87-100 and an expiration date of 10/31/2013.

On 10/31/2012 and 11/7/2012, the solution was analyzed against calibration VFL10312012 and SIM11072012. 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 0.101 g/210L simulated breath ethanol concentration and approved for use as a DataMaster External Standard solution.

Dated at Waterbury, Vermont on Thursday, November 08, 2012.

Amanda Bolduc

0.1 External Standard Solution 20L
Lot # 12-87-100
Prepared 10/31/2012 by ALB
Exp 10/31/2013

ALB CAL VFL10312012
ALB/TLC Vials
Analyzed on10/31/2012

0.1005 tlc
0.1034
0.1014
0.1030
0.1011
0.1024
0.1010
0.1004 alb
0.0985
0.1013
0.0996
0.1016
0.0977
0.1008

Ave. = 0.1009
Std Dev. = 0.0016
Range = 0.0977 - 0.1034

ALB CAL SIM11072012
ALB/TLC Vials
Analyzed on 11/7/12

0.0995 alb
0.1015
0.0989
0.1018
0.0991
0.1022
0.0984
0.1028 tlc
0.0999
0.1038
0.1000
0.1038
0.1003
0.1029

Ave. = 0.1011
Std Dev. = 0.0019
Range = 0.0984 - 0.1038

11/8/2012

Total Values from Both Runs

Average	**Mean**
0.1005	0.0977
0.1034	0.0984
0.1014	0.0985
0.1030	0.0989
0.1011	0.0991
0.1024	0.0995
0.1010	0.0996
0.1004	0.0999
0.0985	0.1000
0.1013	0.1003
0.0996	0.1004
0.1016	0.1005
0.0977	0.1008
0.1008	0.1010
0.0995	0.1011
0.1015	0.1013
0.0989	0.1014
0.1018	0.1015
0.0991	0.1016
0.1022	0.1018
0.0984	0.1022
0.1028	0.1024
0.0999	0.1028
0.1038	0.1029
0.1000	0.1030
0.1038	0.1034
0.1003	0.1038
0.1029	

Ave. =	0.1010
Avg Std Dev. =	0.0017
Mean =	0.1009
Mean Std Dev. =	0.0016
Range =	0.0977 - 0.1038
RPD (Mean to Ave.)=	0.10%

Upon review of the GC data from samples run on 11/1/2012, it was observed that the instrument was in need of maintenance. Results for that run, while technically passing our QC criteria, were lower overall (average of 0.096) than seen for the samples run on 10/31/2012 (average of 0.101). Maintenance of the instrument was conducted and a subsequent analysis of solution was performed on 11/7/2012. The results from the 11/7/2012 run (average of 0.101) will be used along with the results from the 10/31/2012 run for certification of this solution. Additionally, simulator solution from this batch was analyzed on a DMT (Accuracy & Precision on 11/6/2012) showing an average concentration of 0.099.

Trisha Conti 11/8/2012 TC

Headspace Alcohol Analysis Standards Coversheet

Analyst: AUB. Date: 10/31/12

Calibration Standards:

Lot ID: ES-10012012 Preparation Date: 10/1/2012 Expiration Date: 1/1/2013

	Standard A	Standard B	Standard C	Standard D	Standard E	Calibration Check
% Ethanol (w/v)	0.006	0.024	0.081	0.200	0.403	0.081
Acceptance Range (± 10%)	0.007	0.026	0.089	0.220	0.443	0.089
	0.005	0.022	0.073	0.180	0.363	0.073

Control Sample:

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

Calibration and Control Sample Data:

Vial No.	Sample Identification		Result	In Range?	Comments
1	Blank		<0.005	(Y) N	
2	Compound Retention Times:			N/A	
		Acetaldehyde	1.92		
		Methanol	2.02		
		Ethanol	2.67		
		Acetone	3.07		
		Isopropanol	3.20		
		T- butanol	3.64		
		n-propanol	4.45		
3	Standard A		0.006	(Y) N	
4	Standard B		0.023	(Y) N	
5	Standard C		0.081	(Y) N	
6	Standard D		0.197	(Y) N	
7	Standard E		0.405	(Y) N	
8	Aqueous QC		0.0792	(Y) N	$\bar{X}$ = 0.080 ✓ 100%
9	Aqueous QC		0.0812	(Y) N	

11/8/2012

File Name = C:\Alcohol Data\SIM10312012\SIM10312012.SEQ
Version = 2
File Date = 10/31/2012 10:21:51 AM

Entry #	Raw File Name	Method File Name	Sample Name	Sample Wt.	Int. Std. Amount
1	SIM10312012.0001.raw	Blood Alc New VFL.MET	Blank	1.00	1.00
2	SIM10312012.0002.raw	Blood Alc New VFL.MET	TMX	1.00	1.00
3	SIM10312012.0003.raw	Blood Alc New VFL.MET	STD A	1.00	1.00
4	SIM10312012.0004.raw	Blood Alc New VFL.MET	STD B	1.00	1.00
5	SIM10312012.0005.raw	Blood Alc New VFL.MET	STD C	1.00	1.00
6	SIM10312012.0006.raw	Blood Alc New VFL.MET	STD D	1.00	1.00
7	SIM10312012.0007.raw	Blood Alc New VFL.MET	STD E	1.00	1.00
8	SIM10312012.0008.raw	Blood Alc New VFL.MET	AQ QC	1.00	1.00
9	SIM10312012.0009.raw	Blood Alc New VFL.MET	AQ QC	1.00	1.00
10	SIM10312012.0010.raw	Blood Alc New VFL.MET	WB	1.00	1.00
11	SIM10312012.0011.raw	Blood Alc New VFL.MET	WB	1.00	1.00
12	SIM10312012.0012.raw	Blood Alc New VFL.MET	CCS	1.00	1.00
13	SIM10312012.0013.raw	Blood Alc New VFL.MET	CCS	1.00	1.00
14	SIM10312012.0014.raw	Blood Alc New VFL.MET	V12-1677 A1-1	1.00	1.00
15	SIM10312012.0015.raw	Blood Alc New VFL.MET	V12-1677 A1-1	1.00	1.00
16	SIM10312012.0016.raw	Blood Alc New VFL.MET	V12-1677 A1-2	1.00	1.00
17	SIM10312012.0017.raw	Blood Alc New VFL.MET	V12-1677 A1-2	1.00	1.00
18	SIM10312012.0018.raw	Blood Alc New VFL.MET	V12-1677 A1-3	1.00	1.00
19	SIM10312012.0019.raw	Blood Alc New VFL.MET	V12-1677 A1-3	1.00	1.00
20	SIM10312012.0020.raw	Blood Alc New VFL.MET	V12-1677 A1-4	1.00	1.00
21	SIM10312012.0021.raw	Blood Alc New VFL.MET	V12-1677 A1-4	1.00	1.00
22	SIM10312012.0022.raw	Blood Alc New VFL.MET	CCS	1.00	1.00
23	SIM10312012.0023.raw	Blood Alc New VFL.MET	CCS	1.00	1.00
24	SIM10312012.0024.raw	simsoln.met	0.10 TLC	1.00	1.00
25	SIM10312012.0025.raw	simsoln.met	0.10 TLC	1.00	1.00
26	SIM10312012.0026.raw	simsoln.met	0.10 TLC	1.00	1.00
27	SIM10312012.0027.raw	simsoln.met	0.10 TLC	1.00	1.00
28	SIM10312012.0028.raw	simsoln.met	0.10 TLC	1.00	1.00
29	SIM10312012.0029.raw	simsoln.met	0.10 TLC	1.00	1.00
30	SIM10312012.0030.raw	simsoln.met	0.10 TLC	1.00	1.00
31	SIM10312012.0031.raw	Blood Alc New VFL.MET	CCS	1.00	1.00
32	SIM10312012.0032.raw	Blood Alc New VFL.MET	CCS	1.00	1.00
33	SIM10312012.0033.raw	simsoln.met	0.10 ALB	1.00	1.00
34	SIM10312012.0034.raw	simsoln.met	0.10 ALB	1.00	1.00
35	SIM10312012.0035.raw	simsoln.met	0.10 ALB	1.00	1.00
36	SIM10312012.0036.raw	simsoln.met	0.10 ALB	1.00	1.00
37	SIM10312012.0037.raw	simsoln.met	0.10 ALB	1.00	1.00
38	SIM10312012.0038.raw	simsoln.met	0.10 ALB	1.00	1.00
39	SIM10312012.0039.raw	simsoln.met	0.10 ALB	1.00	1.00
40	SIM10312012.0040.raw	Blood Alc New VFL.MET	CCS	1.00	1.00
41	SIM10312012.0041.raw	Blood Alc New VFL.MET	CCS	1.00	1.00
42	RLM10312012.0042.raw	Blood Alc New VFL.MET	RLM Std A	1.00	1.00
43	RLM10312012.0043.raw	Blood Alc New VFL.MET	RLM Std B	1.00	1.00
44	RLM10312012.0044.raw	Blood Alc New VFL.MET	RLM Std C	1.00	1.00
45	RLM10312012.0045.raw	Blood Alc New VFL.MET	RLM Std D	1.00	1.00
46	RLM10312012.0046.raw	Blood Alc New VFL.MET	RLM Std E	1.00	1.00
47	RLM10312012.0047.raw	Blood Alc New VFL.MET	CCS	1.00	1.00
48	RLM10312012.0048.raw	Blood Alc New VFL.MET	CCS	1.00	1.00

Vials not related to sim soln analysis. Data not included 11/8/12

File Name: C:\Methods\VFL 10312012.CAL
Version: 7

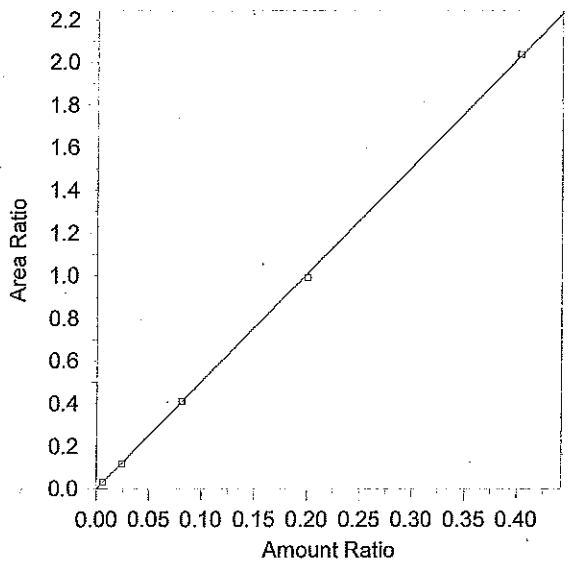
Creator:
Description:
Reason for change:

Internal standard calibration
No injection volume correction
No sample weight correction
Area reject threshold: 1000
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: 2.663 minutes
Search window: 0.1 minutes
Internal standard component: 7 (n-Propanol)
No retention time reference component
Group number: 0

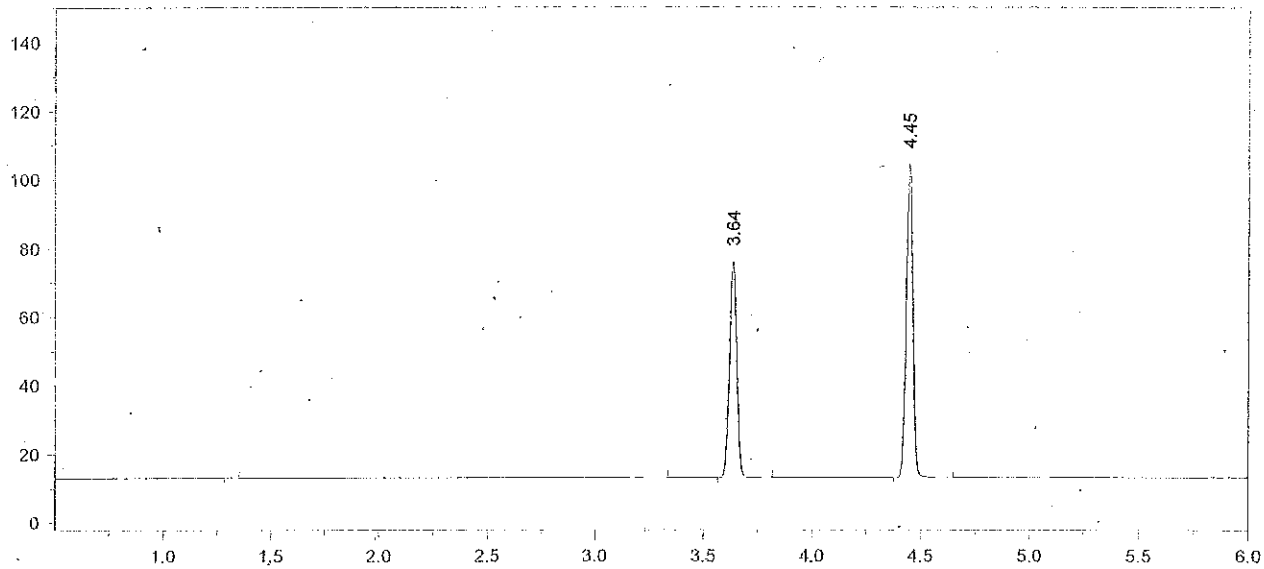
High alarm limit: 0
Low alarm limit: 0
Component constant: 0

Single peak quantification by area

$Y = 5.0346 X + 0$

Linear fit with equal weighting, forced to origin
Coefficient of determination: 0.9998564
Average error: 1.247%
Average CF: 4.996881
RSD: 1.721%

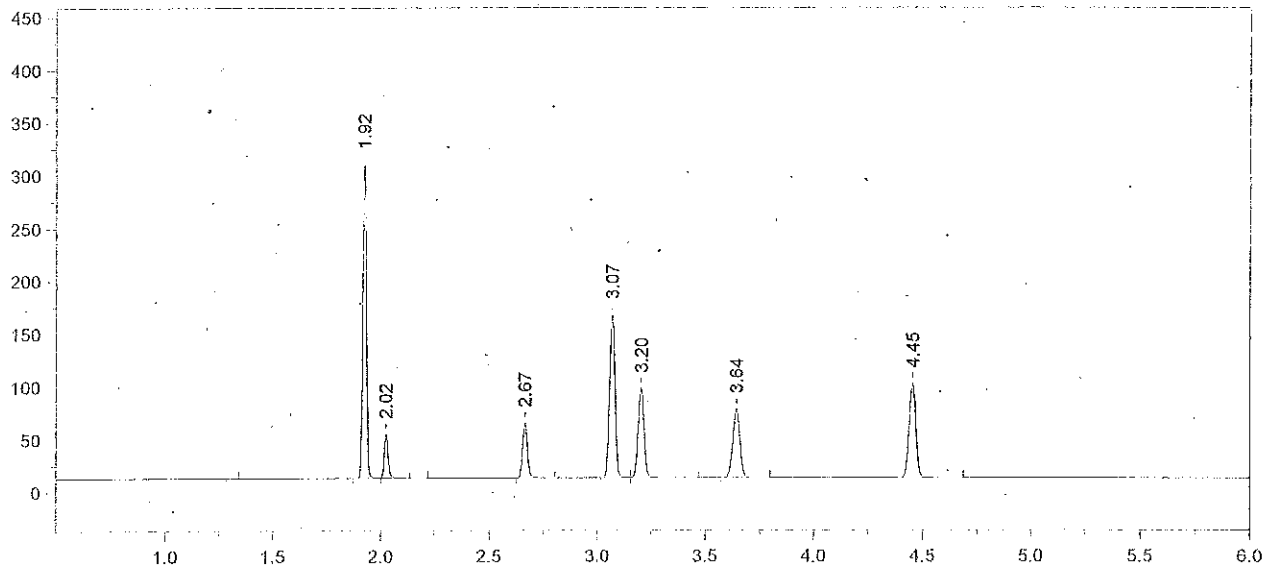
Level	Amount	Response	Cal Factor	Error, %	Amount Ratio	Response Ratio	Source	Date and time
1	(0.087)	(85146)	--	--	0.087	85146	Manual	8/8/2012 7:53:22 AM
2	0.006	5815.542	969257	0.782	0.006	3.044375E-02	C:\Alcohol Data\SIM10312012\SIM10312012.0003.BND	10/31/2012 11:31:56 AI
3	0.0242	21876.99	904007.9	-3.274	0.0242	0.1178481	C:\Alcohol Data\SIM10312012\SIM10312012.0004.BND	10/31/2012 11:49:44 AI
4	0.0813	77646.15	955057.2	0.028	0.0813	0.4094296	C:\Alcohol Data\SIM10312012\SIM10312012.0005.BND	10/31/2012 12:03:25 PM
5	0.2004	189078.5	943505.5	-1.717	0.2004	0.9916094	C:\Alcohol Data\SIM10312012\SIM10312012.0006.BND	10/31/2012 12:21:13 PM
6	0.403	378509.3	939229.1	0.435	0.403	2.037771	C:\Alcohol Data\SIM10312012\SIM10312012.0007.BND	10/31/2012 12:34:57 PM



Format File Name = AlcoholVFL.FMT

Today's Date = 11/1/2012
Today's Time = 7:58:40 AM
Bound File Name = SIM10312012.0001.RAW
Sample Name = Blank
Date Taken = 10/31/2012 11:00:09 AM
VFL Headspace Alcohol
Method file = Blood Alc New VFL.MET
Calibration file = VFL 10312012.CAL
Calibration Version = 7

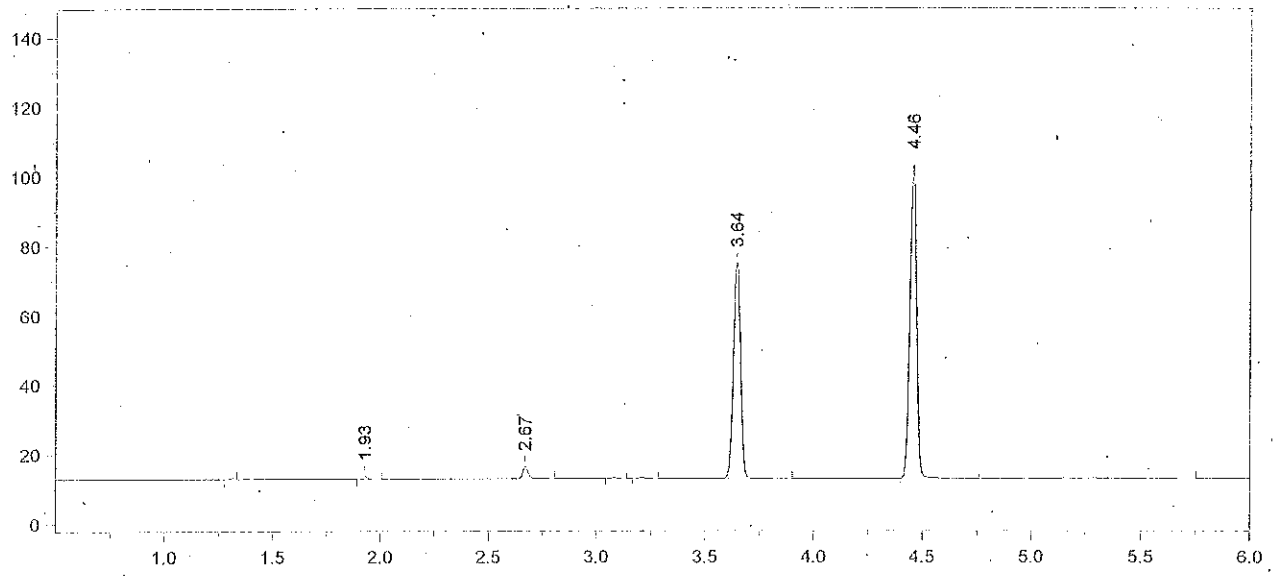
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	3.64	t-Butanol	145265	0.9667
4	4.45	n-Propanol	194521	1.0000



Format File Name = AlcoholVFL.FMT

Today's Date = 11/1/2012
Today's Time = 7:58:47 AM
Bound File Name = SIM10312012.0002.RAW
Sample Name = TMX
Date Taken = 10/31/2012 11:18:09 AM
VFL Headspace Alcohol
Method file = Blood Alc New VFL.MET
Calibration file = VFL 10312012.CAL
Calibration Version = 7

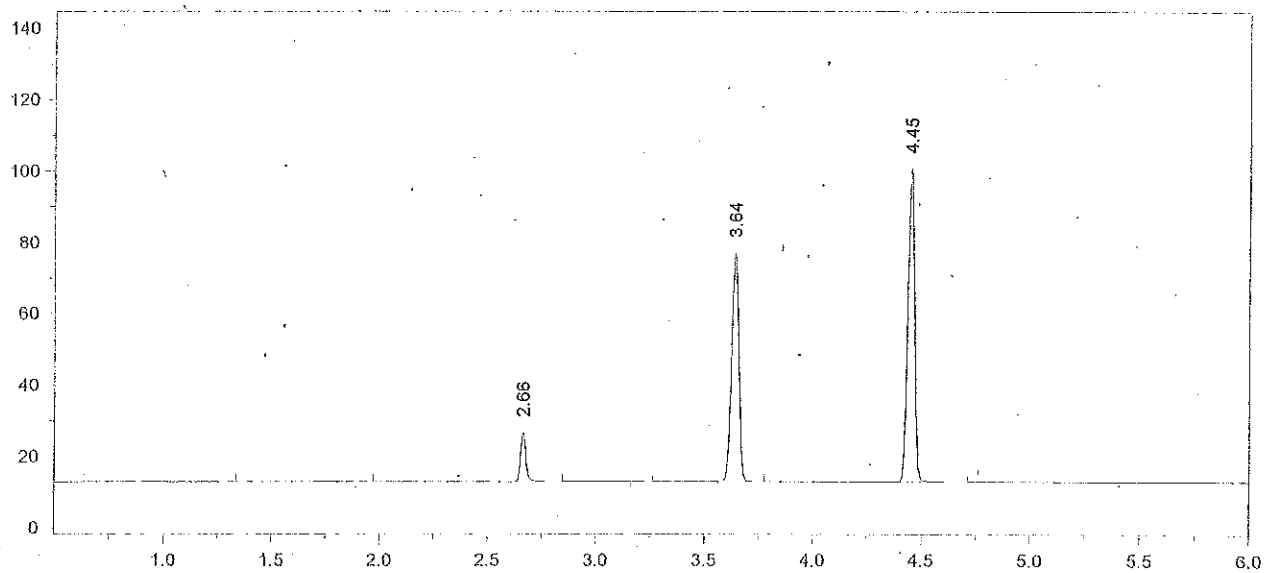
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	1.92	Acetaldehyde	338187	0.0720
3	2.02	Methanol	50982	0.1210
4	2.67	Ethanol	80588	0.0846
5	3.07	Acetone	261629	0.0690
6	3.20	Isopropanol	157584	0.0830
7	3.64	t-Butanol	149248	1.0209
8	4.45	n-Propanol	189245	1.0000



Format File Name = AlcoholVFL.FMT

Today's Date = 11/1/2012
Today's Time = 7:58:54 AM
Bound File Name = SIM10312012.0003.RAW
Sample Name = STD A
Date Taken = 10/31/2012 11:31:46 AM
VFL Headspace Alcohol
Method file = Blood Alc New VFL.MET
Calibration file = VFL 10312012.CAL
Calibration Version = 7

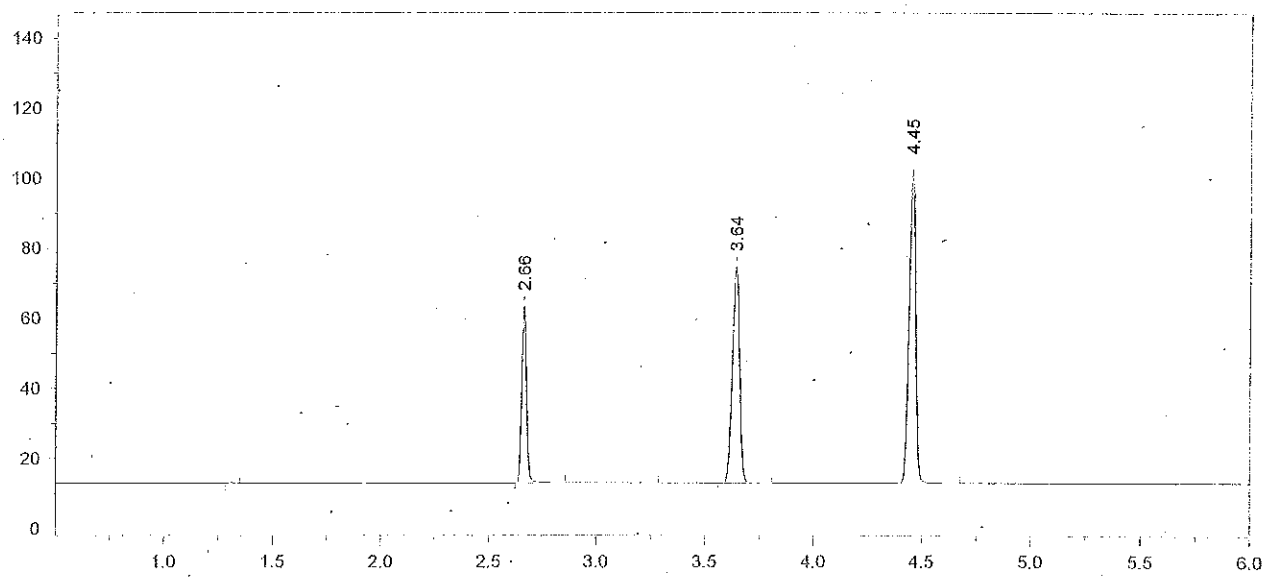
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	1.93	Acetaldehyde	01143	<0.005
3	2.67	Ethanol	05816	0.0060
6	3.64	t-Butanol	143930	0.9753
7	4.46	n-Propanol	191026	1.0000



Format File Name = AlcoholVFL.FMT

Today's Date = 11/1/2012
Today's Time = 7:59:01 AM
Bound File Name = SIM10312012.0004.RAW
Sample Name = STD B
Date Taken = 10/31/2012 11:49:35 AM
VFL Headspace Alcohol
Method file = Blood Alc New VFL.MET
Calibration file = VFL 10312012.CAL
Calibration Version = 7

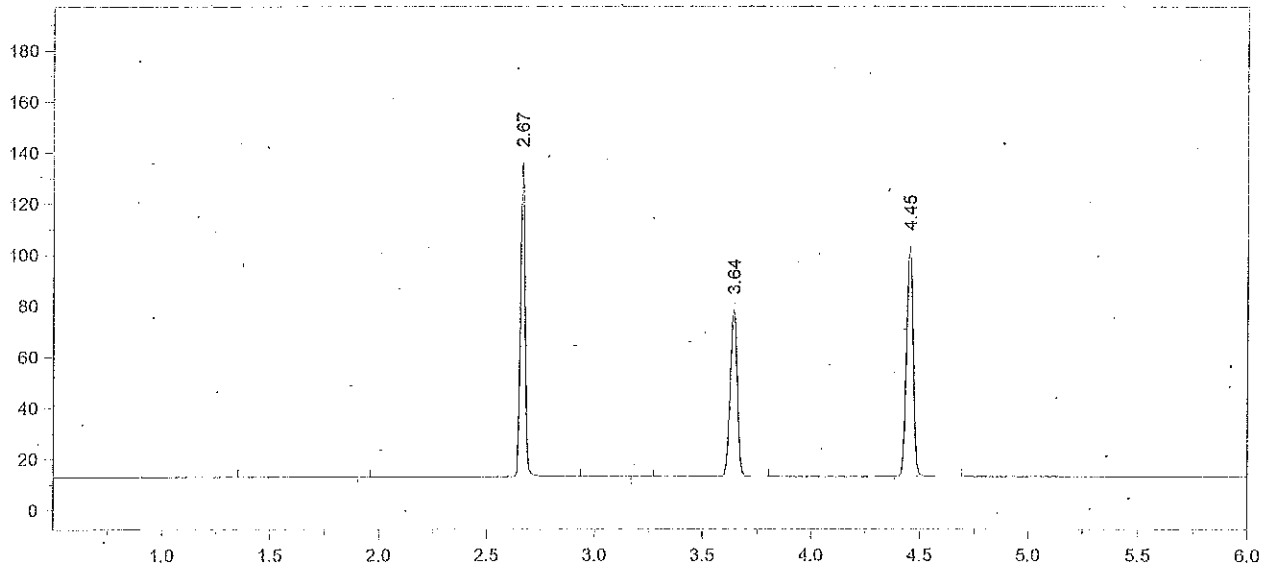
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	21877	0.0234
5	3.64	t-Butanol	147948	1.0317
6	4.45	n-Propanol	185637	1.0000



Format File Name = AlcoholVFL.FMT

Today's Date = 11/1/2012
Today's Time = 7:59:08 AM
Bound File Name = SIM10312012.0005.RAW
Sample Name = STD C
Date Taken = 10/31/2012 12:03:18 PM
VFL Headspace Alcohol
Method file = Blood Alc New VFL.MET
Calibration file = VFL 10312012.CAL
Calibration Version = 7

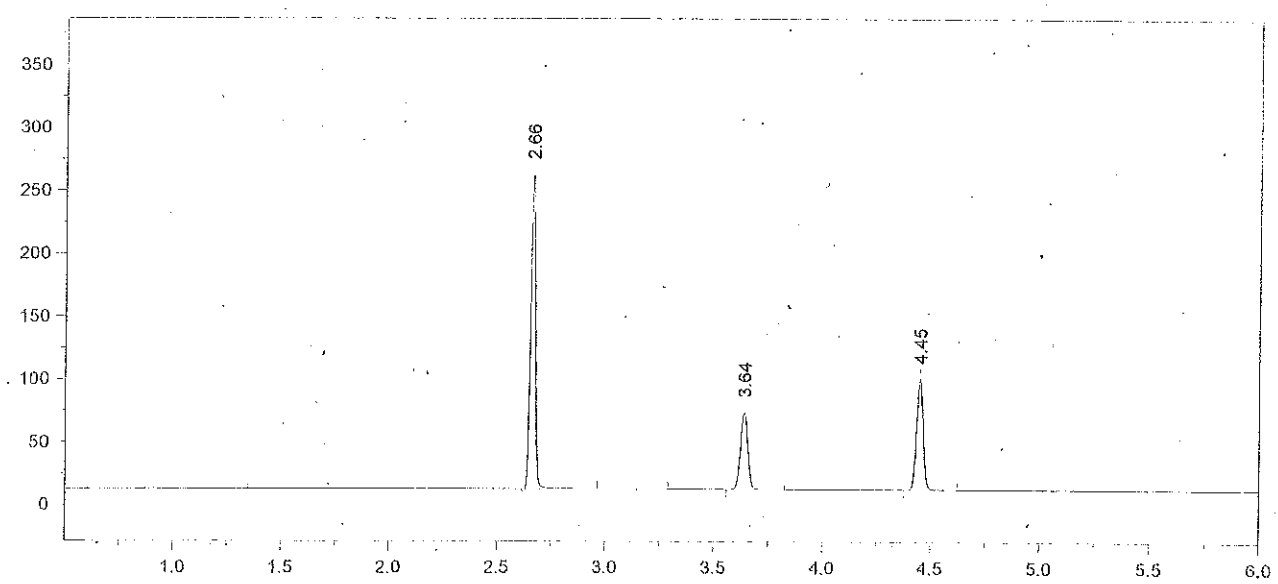
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	77646	0.0813
4	3.64	t-Butanol	142670	0.9739
5	4.45	n-Propanol	189645	1.0000



Format File Name = AlcoholVFL.FMT

Today's Date = 11/1/2012
Today's Time = 7:59:16 AM
Bound File Name = SIM10312012.0006.RAW
Sample Name = STD D
Date Taken = 10/31/2012 12:21:02 PM
VFL Headspace Alcohol
Method file = Blood Alc New VFL.MET
Calibration file = VFL 10312012.CAL
Calibration Version = 7

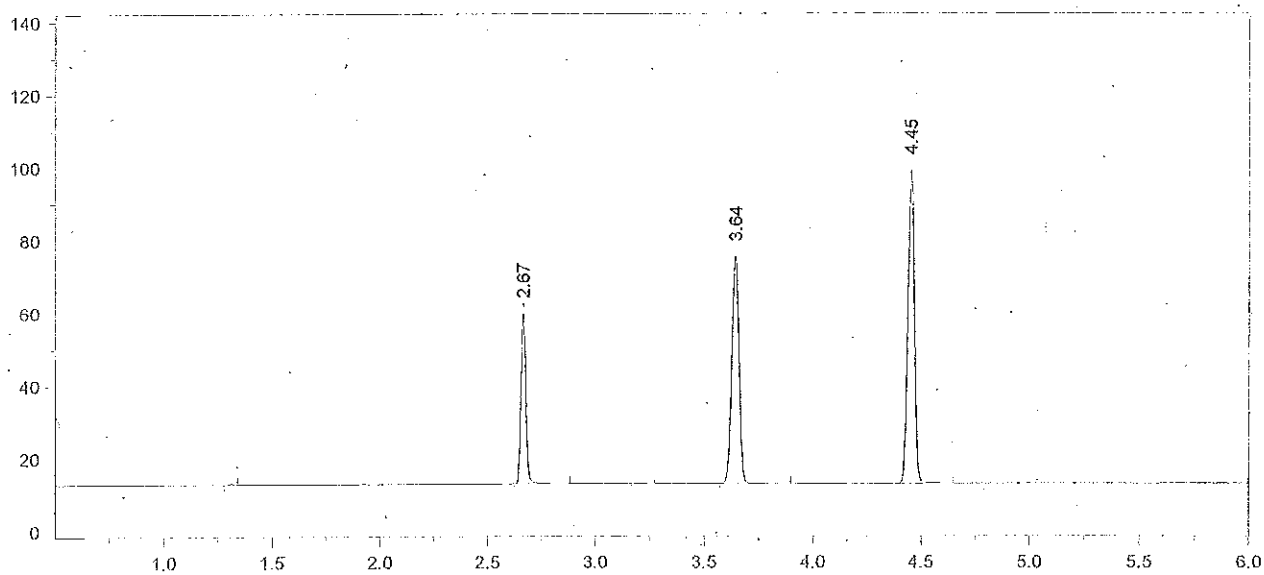
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.67	Ethanol	189079	0.1970
5	3.64	t-Butanol	150703	1.0231
6	4.45	n-Propanol	190678	1.0000



Format File Name = AlcoholVFL.FMT

Today's Date = 11/1/2012
Today's Time = 7:59:24 AM
Bound File Name = SIM10312012.0007.RAW
Sample Name = STD E
Date Taken = 10/31/2012 12:34:48 PM
VFL Headspace Alcohol
Method file = Blood Alc New VFL.MET
Calibration file = VFL 10312012.CAL
Calibration Version = 7

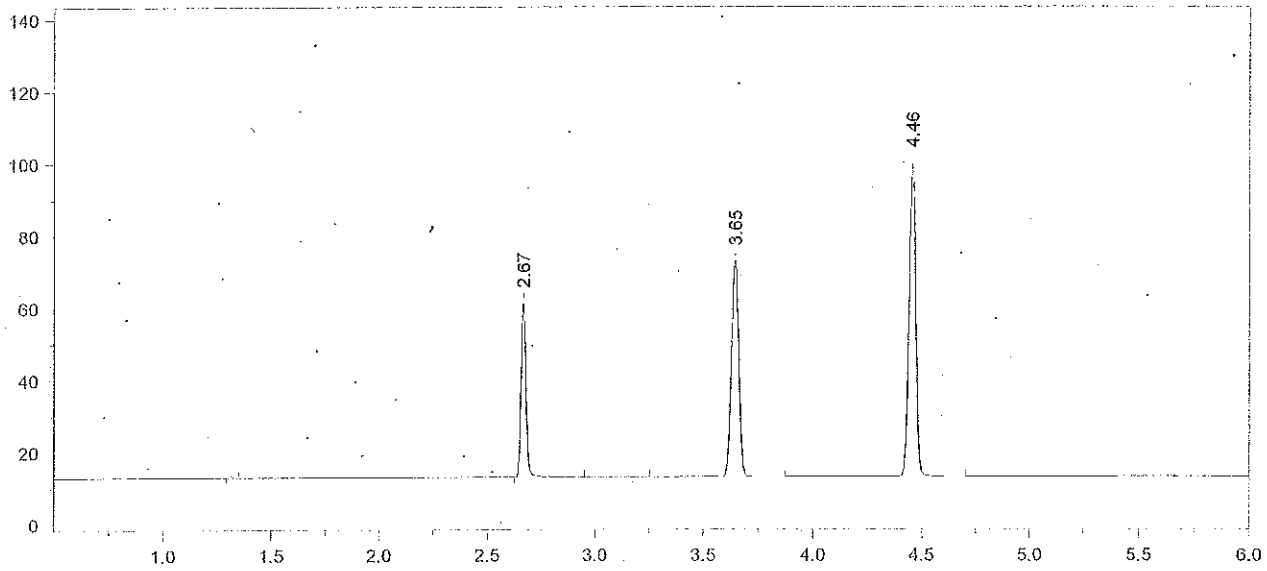
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	378509	0.4048
4	3.64	t-Butanol	139917	0.9751
5	4.45	n-Propanol	185747	1.0000



Format File Name = AlcoholVFL.FMT

Today's Date = 10/31/2012
Today's Time = 12:52:37 PM
Bound File Name = SIM10312012.0008.RAW
Sample Name = AQ QC
Date Taken = 10/31/2012 12:52:29 PM
VFL Headspace Alcohol
Method file = Blood Alc New VFL.MET
Calibration file = VFL 10312012.CAL
Calibration Version = 7

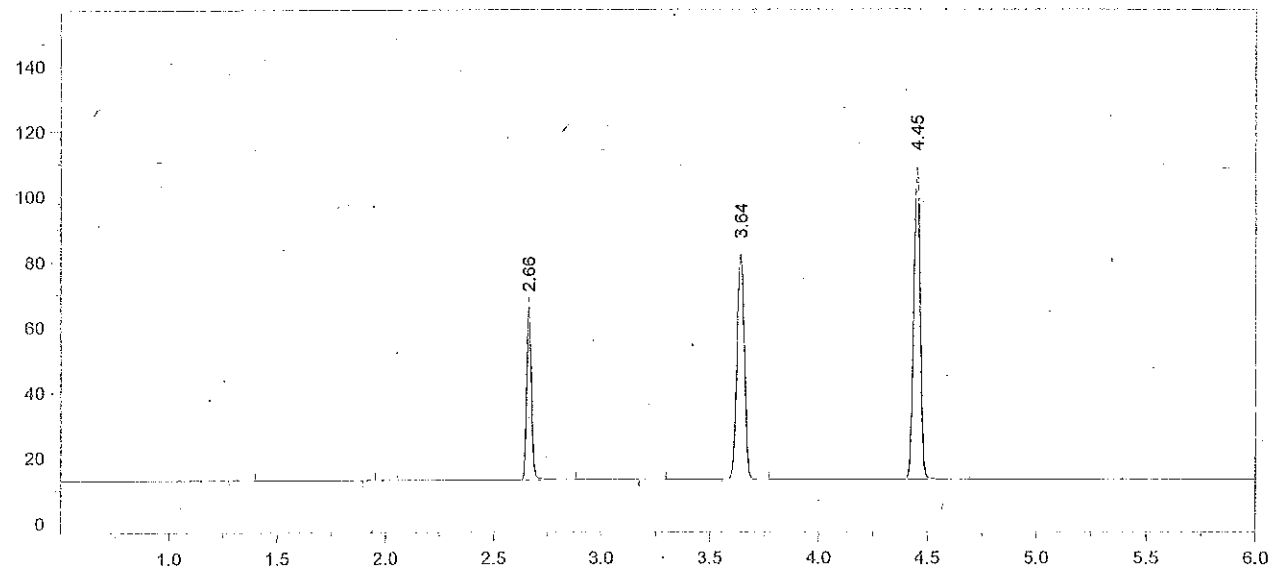
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.67	Ethanol	72557	0.0792
4	3.64	t-Butanol	143813	1.0226
5	4.45	n-Propanol	182049	1.0000



Format File Name = AlcoholVFL.FMT

Today's Date = 10/31/2012
Today's Time = 1:06:21 PM
Bound File Name = SIM10312012.0009.RAW
Sample Name = AQ QC
Date Taken = 10/31/2012 1:06:14 PM
VFL Headspace Alcohol
Method file = Blood Alc New VFL.MET
Calibration file = VFL 10312012.CAL
Calibration Version = 7

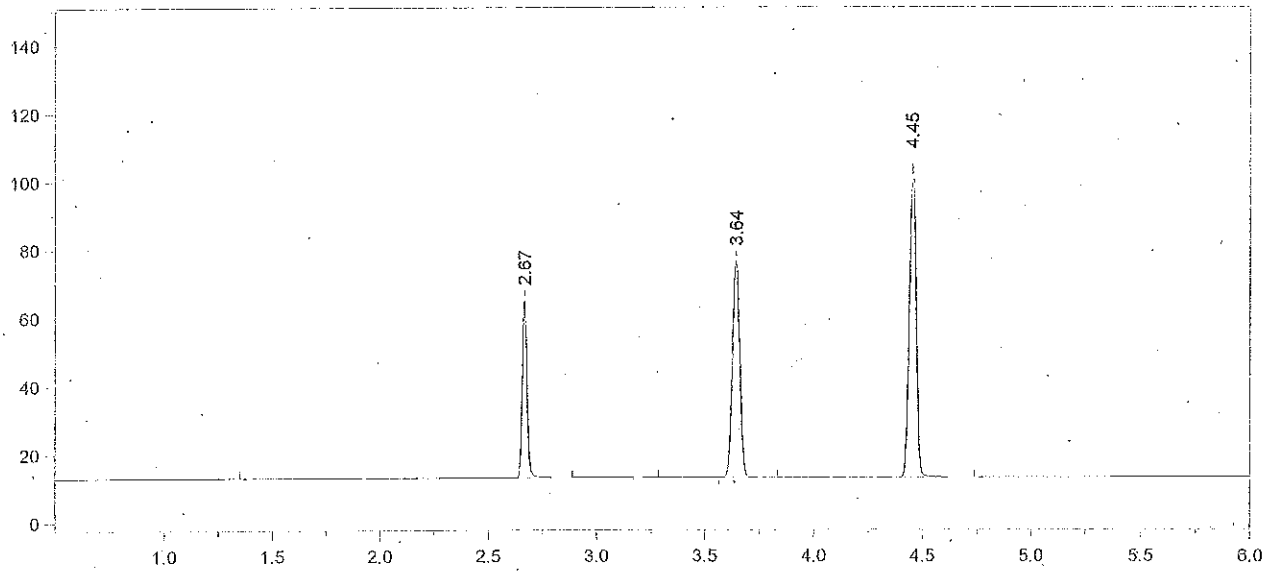
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.67	Ethanol	75256	0.0812
4	3.65	t-Butanol	138438	0.9729
5	4.46	n-Propanol	184193	1.0000



Format File Name = AlcoholVFL.FMT

Today's Date = 10/31/2012
Today's Time = 4:30:52 PM
Bound File Name = SIM10312012.0022.RAW
Sample Name = CCS
Date Taken = 10/31/2012 4:30:42 PM
VFL Headspace Alcohol
Method file = Blood Alc New VFL.MET
Calibration file = VFL 10312012.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	81645	0.0799
5	3.64	t-Butanol	158832	1.0132
6	4.45	n-Propanol	202928	1.0000

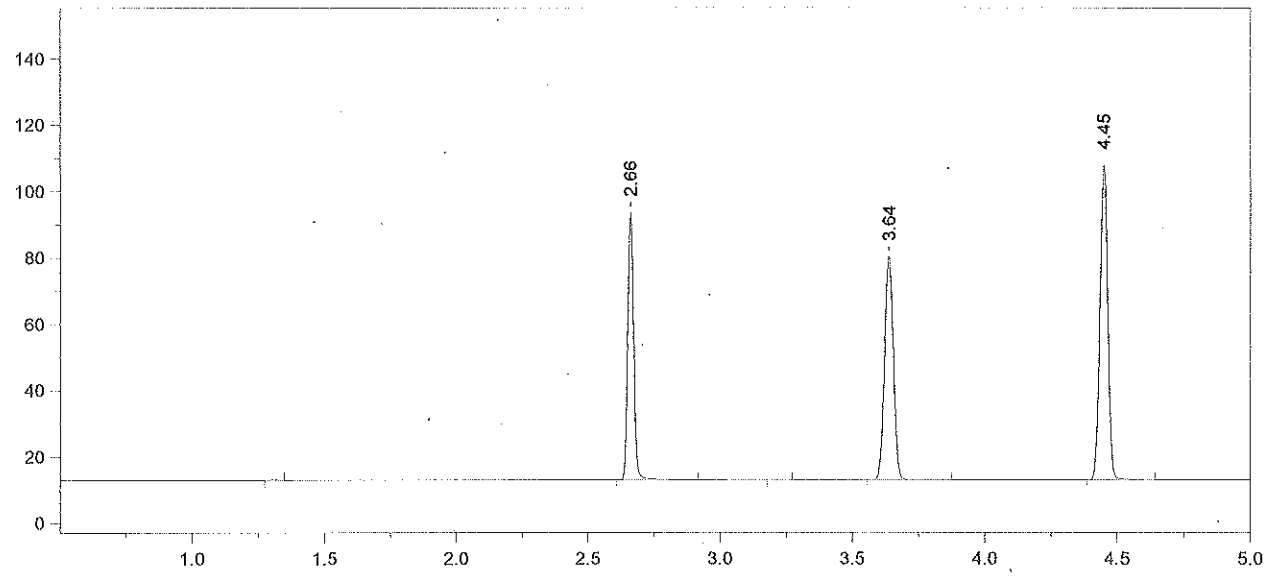


Format File Name = AlcoholVFL.FMT

Today's Date = 10/31/2012
Today's Time = 4:45:46 PM
Bound File Name = SIM10312012.0023.RAW
Sample Name = CCS
Date Taken = 10/31/2012 4:45:37 PM
VFL Headspace Alcohol
Method file = Blood Alc New VFL.MET
Calibration file = VFL 10312012.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.67	Ethanol	79920	0.0816
4	3.64	t-Butanol	145910	0.9715
5	4.45	n-Propanol	194425	1.0000

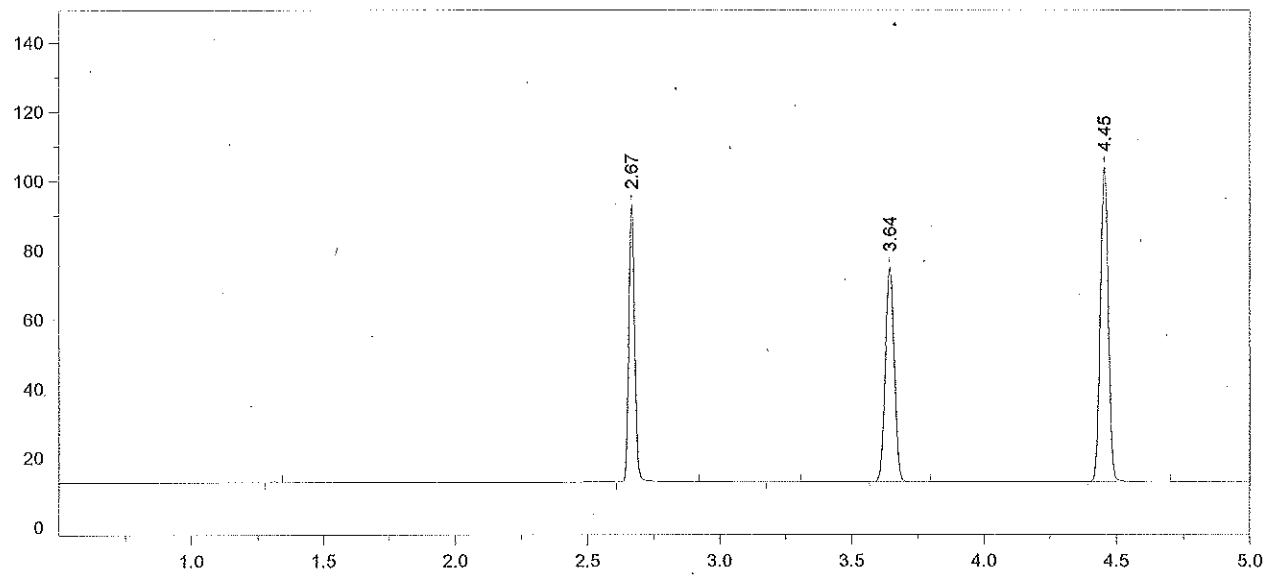
$\bar{X}$ = 0.081
11/8/12



Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/31/2012
Today's Time = 5:00:44 PM
Bound File Name = SIM10312012.0024.RAW
Sample Name = 0.10 TLC
Date Taken = 10/31/2012 5:00:33 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL 10312012.CAL
Calibration Version = 7

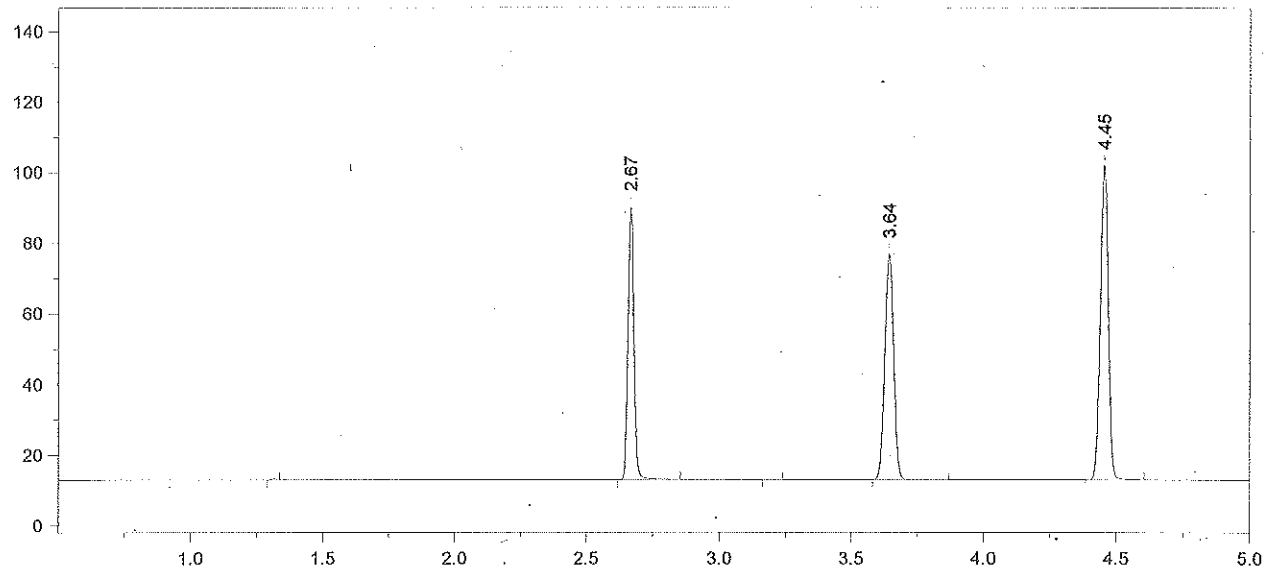
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	123834	0.1232	0.1005
4	3.64	t-Butanol	155591	1.0085	0.8231
5	4.45	n-Propanol	199715	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/31/2012 Today's Time = 5:16:03 PM
Bound File Name = SIM10312012.0025.RAW
Sample Name = 0.10 TLC
Date Taken = 10/31/2012 5:15:56 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL 10312012.CAL Calibration Version = 7

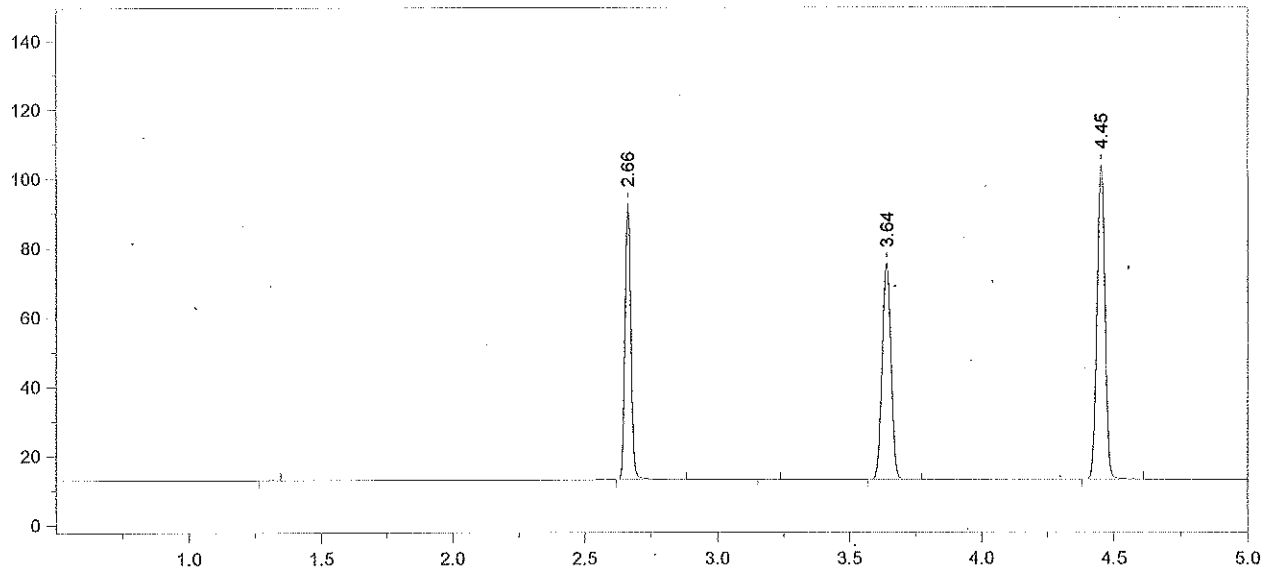
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	122816	0.1267	0.1034
4	3.64	t-Butanol	142398	0.9574	0.7814
5	4.45	n-Propanol	192540	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/31/2012 Today's Time = 5:32:17 PM
Bound File Name = SIM10312012.0026.RAW
Sample Name = 0.10 TLC
Date Taken = 10/31/2012 5:32:07 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL 10312012.CAL Calibration Version = 7

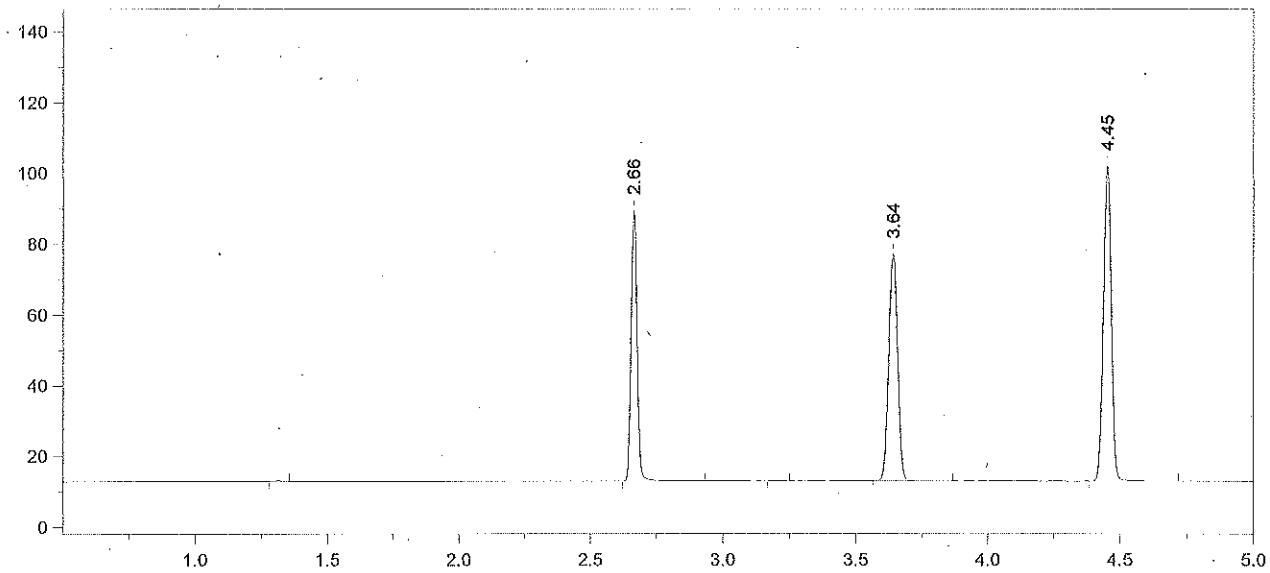
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	117762	0.1242	0.1014
4	3.64	t-Butanol	147815	1.0162	0.8295
5	4.45	n-Propanol	188288	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/31/2012
Today's Time = 5:45:46 PM
Bound File Name = SIM10312012.0027.RAW
Sample Name = 0.10 TLC
Date Taken = 10/31/2012 5:45:40 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL 10312012.CAL
Calibration Version = 7

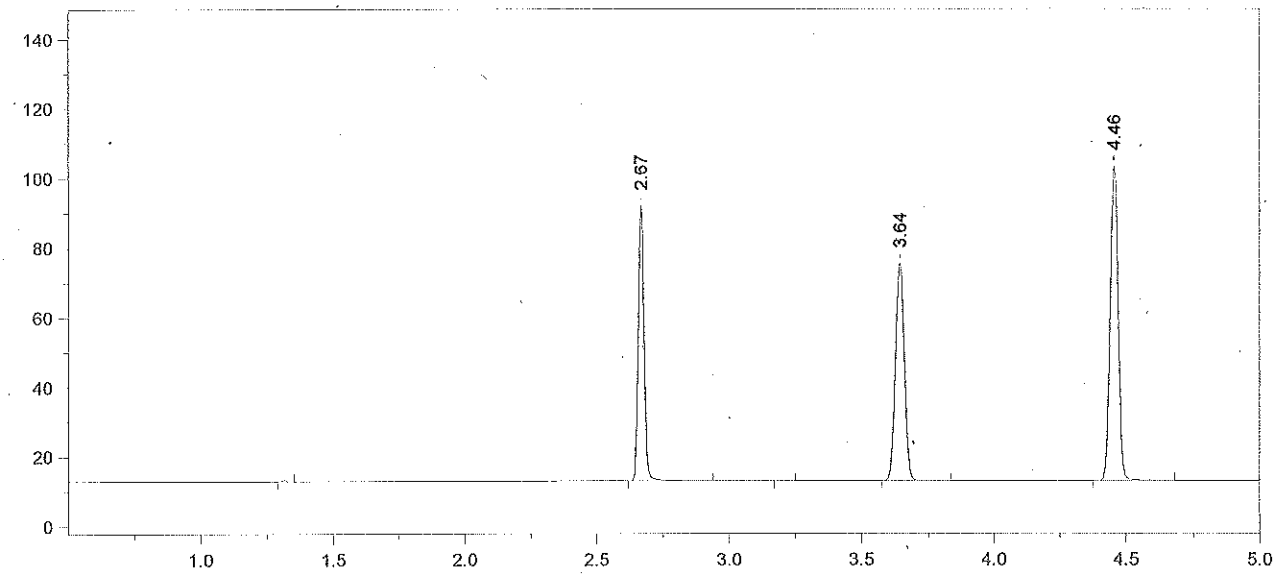
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	122527	0.1261	0.1030
4	3.64	t-Butanol	143974	0.9660	0.7885
5	4.45	n-Propanol	192932	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/31/2012 Today's Time = 6:03:40 PM
Bound File Name = SIM10312012.0028.RAW
Sample Name = 0.10 TLC
Date Taken = 10/31/2012 6:03:32 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL 10312012.CAL Calibration Version = 7

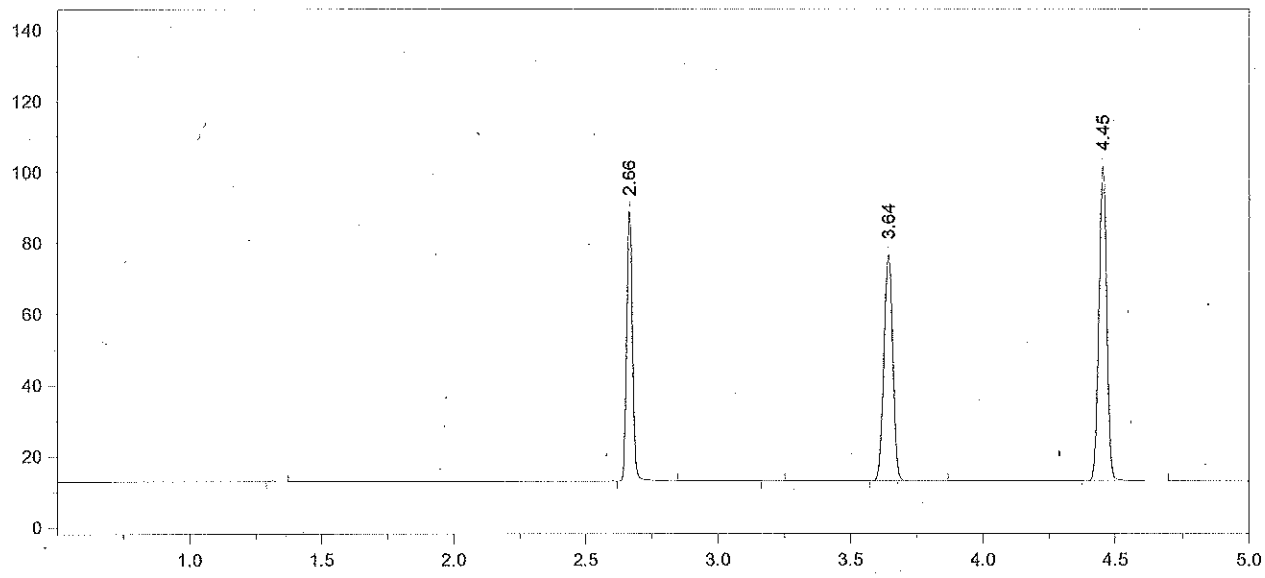
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	117940	0.1239	0.1011
4	3.64	t-Butanol	148992	1.0198	0.8324
5	4.45	n-Propanol	189125	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/31/2012
Today's Time = 6:17:29 PM
Bound File Name = SIM10312012.0029.RAW
Sample Name = 0.10 TLC
Date Taken = 10/31/2012 6:17:20 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL 10312012.CAL
Calibration Version = 7

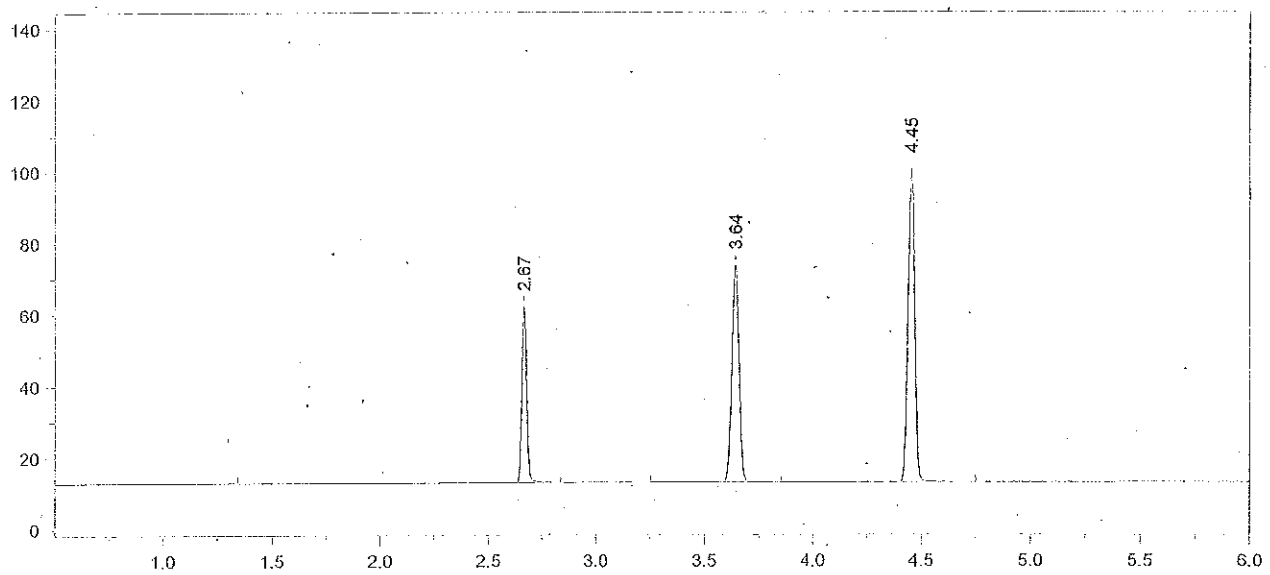
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	121314	0.1254	0.1024
4	3.64	t-Butanol	144601	0.9742	0.7951
5	4.46	n-Propanol	192147	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/31/2012
Today's Time = 6:35:07 PM
Bound File Name = SIM10312012.0030.RAW
Sample Name = 0.10 TLC
Date Taken = 10/31/2012 6:34:59 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL 10312012.CAL
Calibration Version = 7

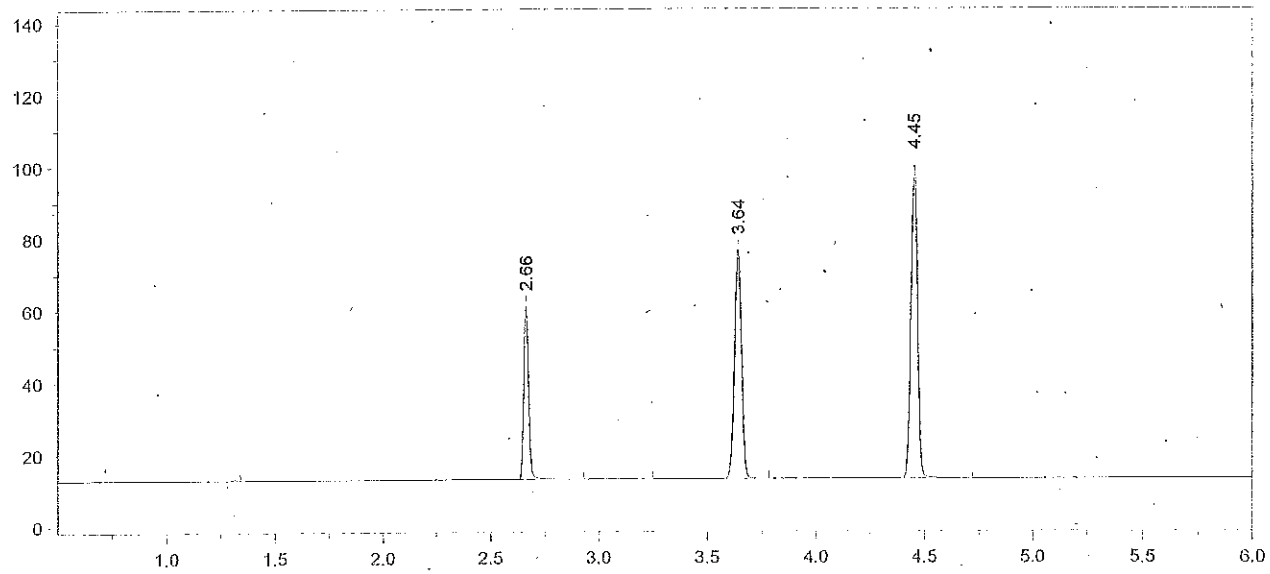
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	116763	0.1238	0.1010
4	3.64	t-Butanol	147252	1.0173	0.8303
5	4.45	n-Propanol	187381	1.0000	0.8162



Format File Name = AlcoholVFL.FMT

Today's Date = 10/31/2012
Today's Time = 6:48:45 PM
Bound File Name = SIM10312012.0031.RAW
Sample Name = CCS
Date Taken = 10/31/2012 6:48:39 PM
VFL Headspace Alcohol
Method file = Blood Alc New VFL.MET
Calibration file = VFL 10312012.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.67	Ethanol	76188	0.0817
4	3.64	t-Butanol	140154	0.9793
5	4.45	n-Propanol	185269	1.0000

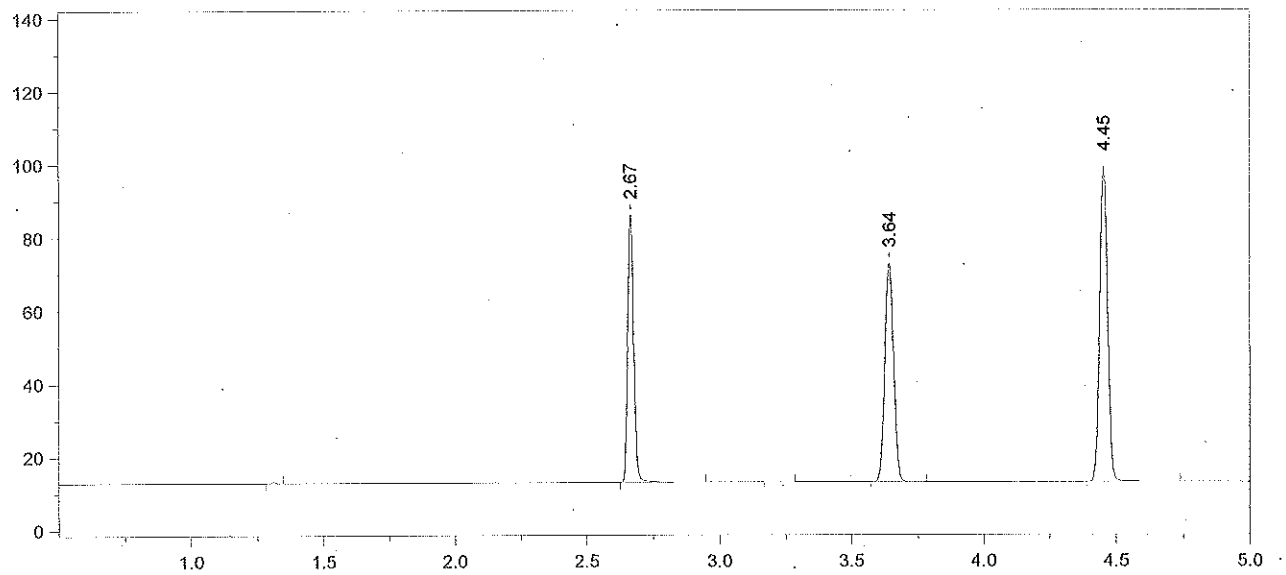


Format File Name = AlcoholVFL.FMT

Today's Date = 10/31/2012
Today's Time = 7:06:38 PM
Bound File Name = SIM10312012.0032.RAW
Sample Name = CCS
Date Taken = 10/31/2012 7:06:26 PM
VFL Headspace Alcohol
Method file = Blood Alc New VFL.MET
Calibration file = VFL 10312012.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	74757	0.0804 ✓
4	3.64	t-Butanol	146595	1.0274
5	4.45	n-Propanol	184709	1.0000

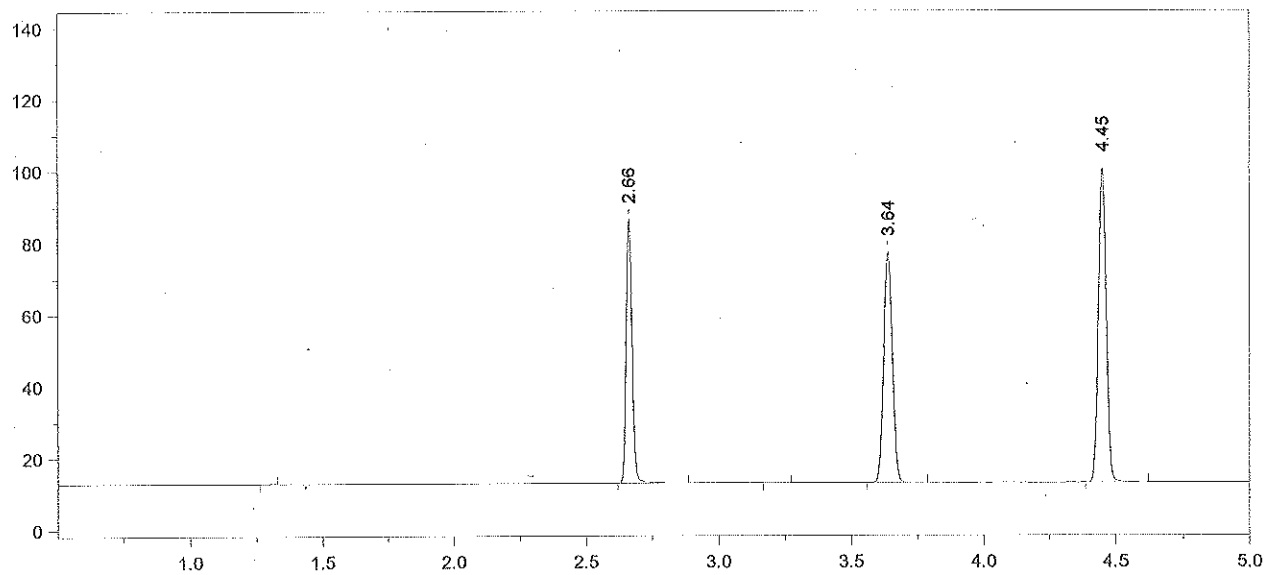
$\bar{X} = 0.081$
11/8/12
(A)



Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/31/2012 Today's Time = 7:20:20 PM
Bound File Name = SIM10312012.0033.RAW
Sample Name = 0.10 ALB
Date Taken = 10/31/2012 7:20:11 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL 10312012.CAL Calibration Version = 7

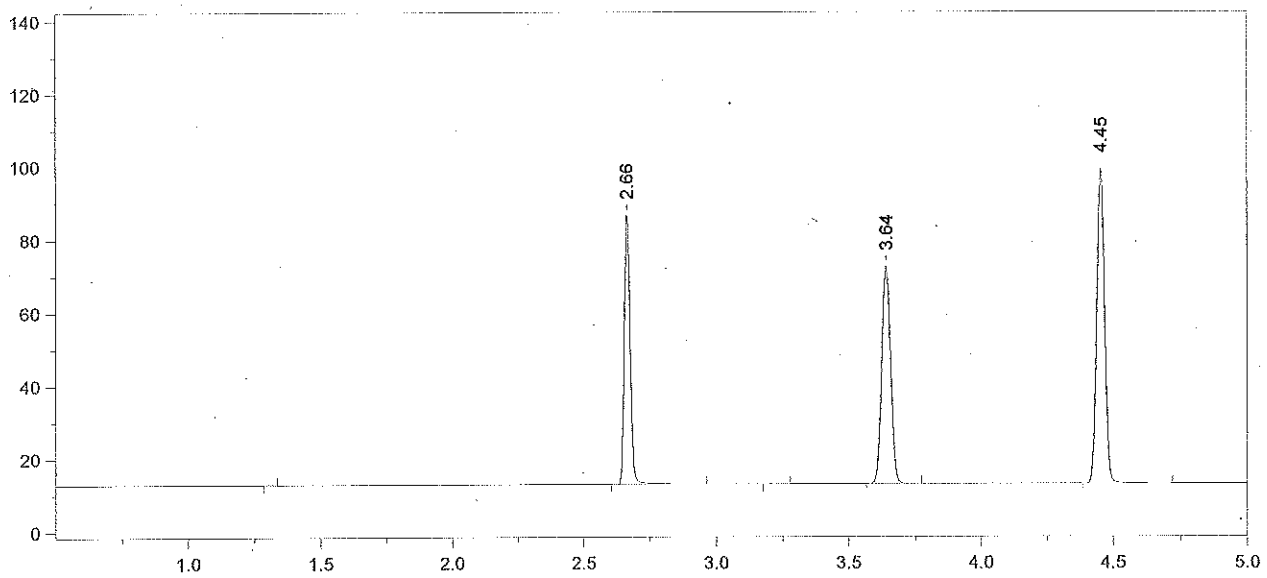
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	113290	0.1231	0.1004
4	3.64	t-Butanol	138233	0.9786	0.7988
5	4.45	n-Propanol	182850	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/31/2012 Today's Time = 7:38:04 PM
Bound File Name = SIM10312012.0034.RAW
Sample Name = 0.10 ALB
Date Taken = 10/31/2012 7:37:53 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL 10312012.CAL Calibration Version = 7

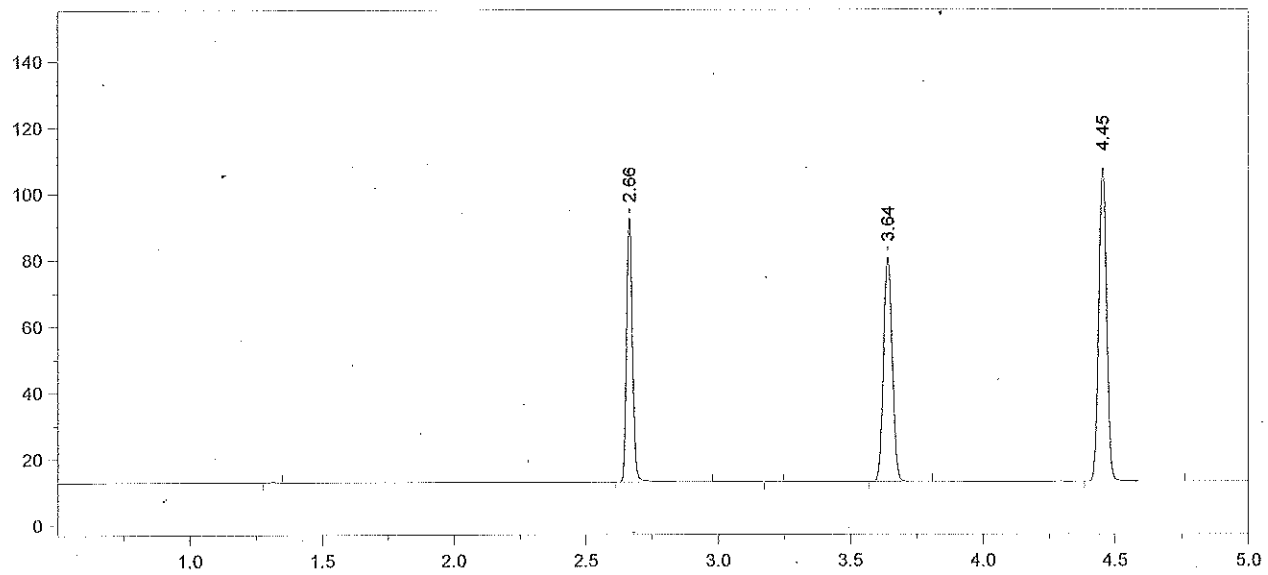
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	113342	0.1207	0.0985
4	3.64	t-Butanol	148294	1.0294	0.8402
5	4.45	n-Propanol	186491	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/31/2012
Today's Time = 7:51:14 PM
Bound File Name = SIM10312012.0035.RAW
Sample Name = 0.10 ALB
Date Taken = 10/31/2012 7:51:08 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL 10312012.CAL
Calibration Version = 7

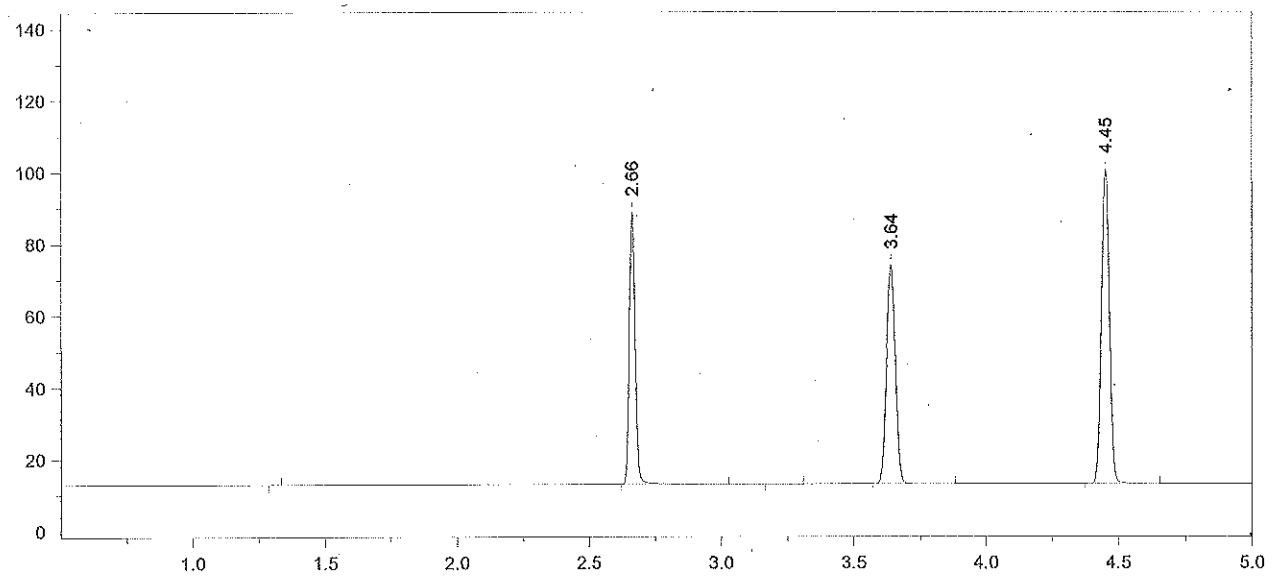
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	113881	0.1241	0.1013
4	3.64	t-Butanol	137811	0.9788	0.7989
5	4.45	n-Propanol	182253	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/31/2012
Today's Time = 8:09:25 PM
Bound File Name = SIM10312012.0036.RAW
Sample Name = 0.10 ALB
Date Taken = 10/31/2012 8:09:20 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL 10312012.CAL
Calibration Version = 7

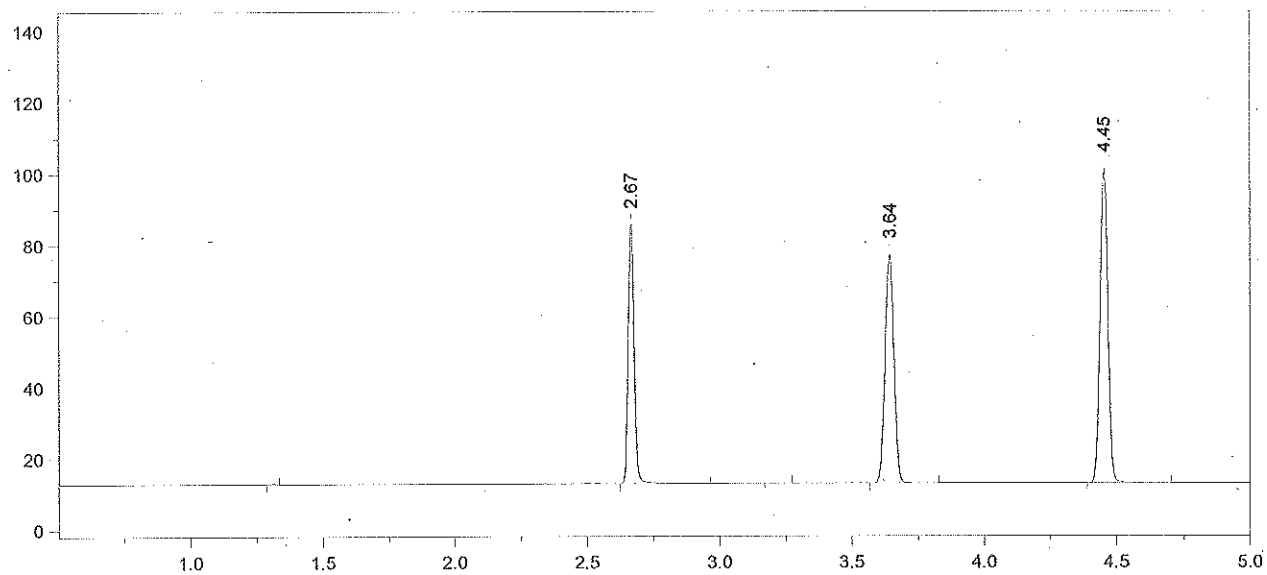
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	123341	0.1221	0.0996
4	3.64	t-Butanol	156561	1.0100	0.8243
5	4.45	n-Propanol	200669	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/31/2012
Today's Time = 8:23:29 PM
Bound File Name = SIM10312012.0037.RAW
Sample Name = 0.10 ALB
Date Taken = 10/31/2012 8:23:17 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL 10312012.CAL
Calibration Version = 7

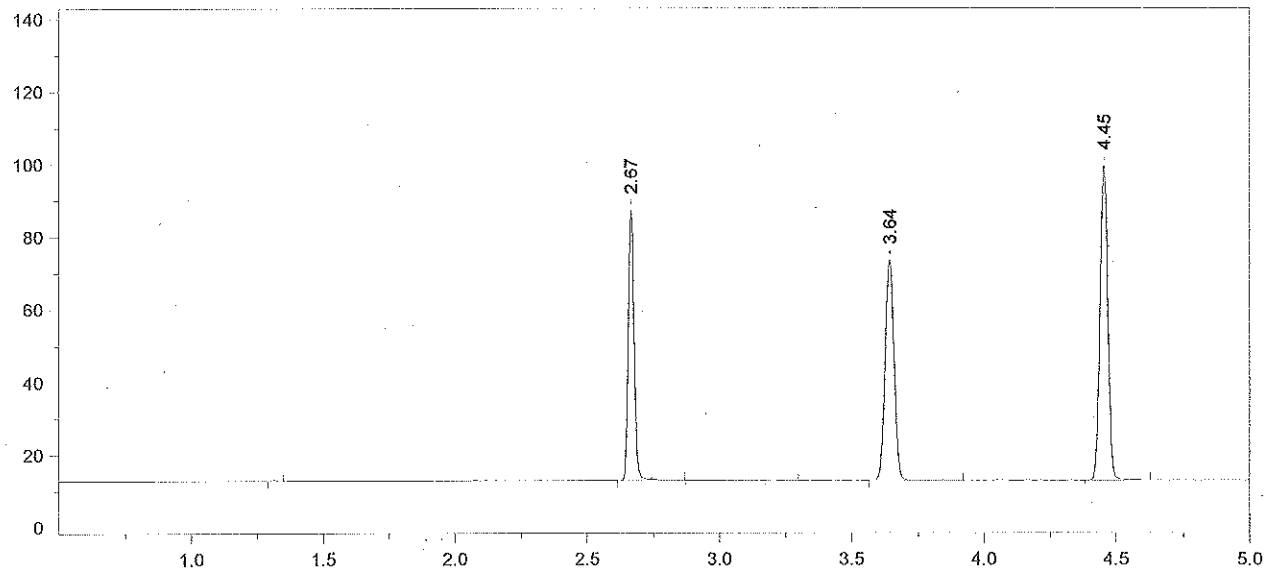
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	116538	0.1245	0.1016
4	3.64	t-Butanol	140540	0.9782	0.7984
5	4.45	n-Propanol	185977	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/31/2012
Today's Time = 8:40:55 PM
Bound File Name = SIM10312012.0038.RAW
Sample Name = 0.10 ALB
Date Taken = 10/31/2012 8:40:47 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL 10312012.CAL
Calibration Version = 7

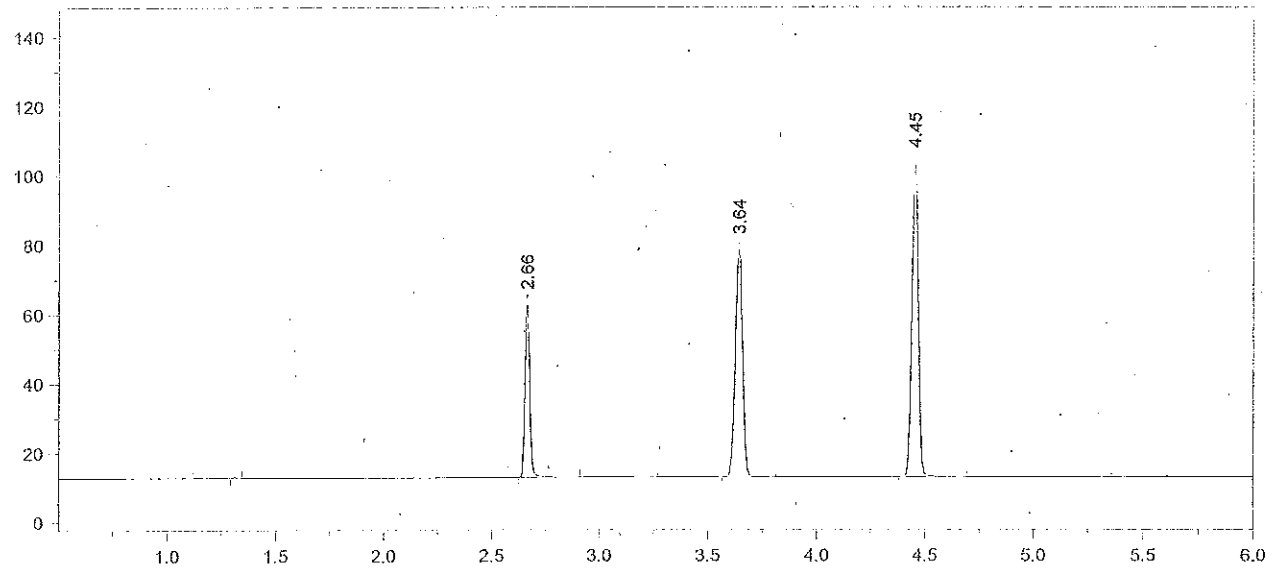
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	112524	0.1197	0.0977
4	3.64	t-Butanol	148144	1.0270	0.8382
5	4.45	n-Propanol	186730	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 10/31/2012
Today's Time = 8:54:28 PM
Bound File Name = SIM10312012.0039.RAW
Sample Name = 0.10 ALB
Date Taken = 10/31/2012 8:54:22 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL 10312012.CAL
Calibration Version = 7

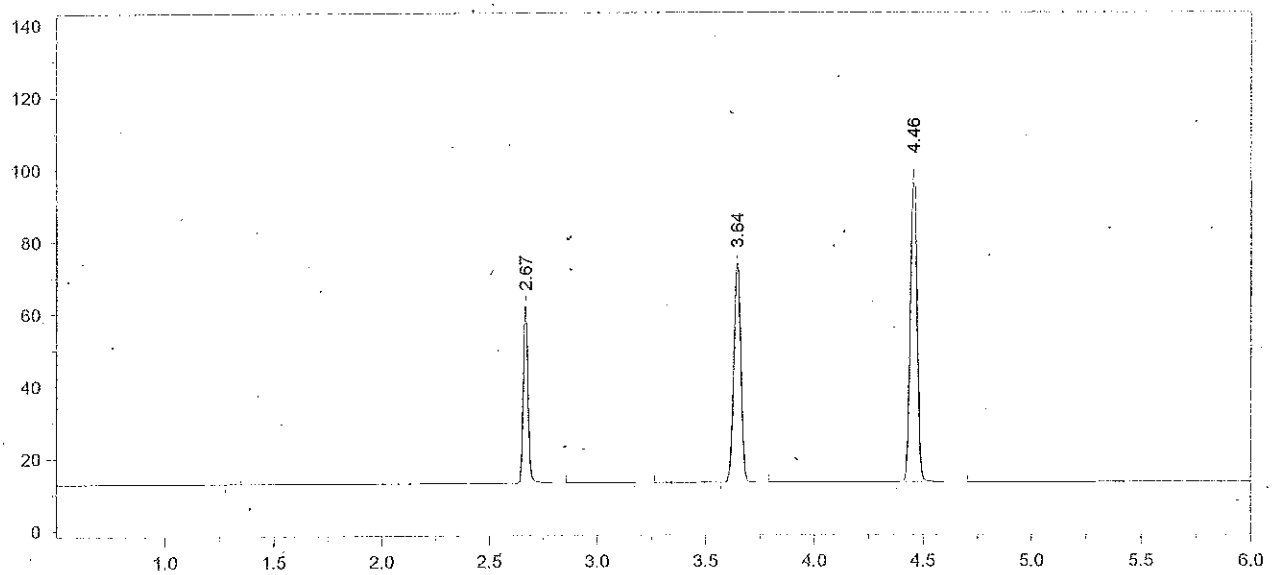
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	114163	0.1236	0.1008
4	3.64	t-Butanol	140058	0.9879	0.8063
5	4.45	n-Propanol	183527	1.0000	0.8162



Format File Name = AlcoholVFL.FMT

Today's Date = 10/31/2012
Today's Time = 9:10:44 PM
Bound File Name = SIM10312012.0040.RAW
Sample Name = CCS
Date Taken = 10/31/2012 9:10:32 PM
VFL Headspace Alcohol
Method file = Blood Alc New VFL.MET
Calibration file = VFL 10312012.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	77460	0.0804 ✓
4	3.64	t-Butanol	151625	1.0257
5	4.45	n-Propanol	191357	1.0000



Format File Name = AlcoholVFL.FMT

Today's Date = 10/31/2012
Today's Time = 9:26:06 PM
Bound File Name = SIM10312012.0041.RAW
Sample Name = CCS
Date Taken = 10/31/2012 9:25:56 PM
VFL Headspace Alcohol
Method file = Blood Alc New VFL.MET
Calibration file = VFL 10312012.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.67	Ethanol	75636	0.0817 ✓
4	3.64	t-Butanol	140264	0.9878
5	4.46	n-Propanol	183819	1.0000

$\bar{X} = 0.081$
11/8/12

Headspace Alcohol Analysis Standards Coversheet

Analyst: ALB Date: 11/7/12

Calibration Standards:

Lot ID: ES-10012012 Preparation Date: 10/1/2012 Expiration Date: 1/1/2013

	Standard A	Standard B	Standard C	Standard D	Standard E	Calibration Check
% Ethanol (w/v)	0.006	0.024	0.081	0.200	0.403	0.081
Acceptance Range (± 10%)	0.007	0.026	0.089	0.220	0.443	0.089
	0.005	0.022	0.073	0.180	0.363	0.073

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	Three blanks analyzed at beginning of run. All <0.005 ✓
2	Compound Retention Times:			N/A	
		Acetaldehyde	1.92		✓
		Methanol	2.02		
		Ethanol	2.66		
		Acetone	3.06		
		Isopropanol	3.20		
		T- butanol	3.64		
		n-propanol	4.45		
3	Standard A		0.006	Y N	✓
4	Standard B		0.024	Y N	✓
5	Standard C		0.082	Y N	✓
6	Standard D		0.197	Y N	✓
7	Standard E		0.404	Y N	✓
8	Aqueous QC		0.0803	Y N	✓
9	Aqueous QC		0.0796	Y N ✓	Avg = 0.080 100% recovery ✓

11/8/2012

File Name = C:\Alcohol Data\SIM11072012\SIM11072012.SEQ
Version = 2
File Date = 11/7/2012 11:25:07 AM

Entry #	Raw File Name	Method File Name	Sample Name	Sample Wt.	Int. Std. Amount
1	SIM11072012.0001.raw	Blood Alc New VFL.MET	BLANK	1.00	1.00
2	SIM11072012.0002.raw	Blood Alc New VFL.MET	BLANK	1.00	1.00
3	SIM11072012.0003.raw	Blood Alc New VFL.MET	BLANK	1.00	1.00
4	SIM11072012.0004.raw	Blood Alc New VFL.MET	TMX	1.00	1.00
5	SIM11072012.0005.raw	Blood Alc New VFL.MET	STD A	1.00	1.00
6	SIM11072012.0006.raw	Blood Alc New VFL.MET	STD B	1.00	1.00
7	SIM11072012.0007.raw	Blood Alc New VFL.MET	STD C	1.00	1.00
8	SIM11072012.0008.raw	Blood Alc New VFL.MET	STD D	1.00	1.00
9	SIM11072012.0009.raw	Blood Alc New VFL.MET	STD E	1.00	1.00
10	SIM11072012.0010.raw	Blood Alc New VFL.MET	AQ QC	1.00	1.00
11	SIM11072012.0011.raw	Blood Alc New VFL.MET	AQ QC	1.00	1.00
12	SIM11072012.0012.raw	Blood Alc New VFL.MET	CCS	1.00	1.00
13	SIM11072012.0013.raw	Blood Alc New VFL.MET	CCS	1.00	1.00
14	SIM11072012.0014.raw	simsoln.met	0.1 ALB	1.00	1.00
15	SIM11072012.0015.raw	simsoln.met	0.1 ALB	1.00	1.00
16	SIM11072012.0016.raw	simsoln.met	0.1 ALB	1.00	1.00
17	SIM11072012.0017.raw	simsoln.met	0.1 ALB	1.00	1.00
18	SIM11072012.0018.raw	simsoln.met	0.1 ALB	1.00	1.00
19	SIM11072012.0019.raw	simsoln.met	0.1 ALB	1.00	1.00
20	SIM11072012.0020.raw	simsoln.met	0.1 ALB	1.00	1.00
21	SIM11072012.0021.raw	simsoln.met	CCS	1.00	1.00
22	SIM11072012.0022.raw	simsoln.met	CCS	1.00	1.00
23	SIM11072012.0023.raw	simsoln.met	0.1 TLC	1.00	1.00
24	SIM11072012.0024.raw	simsoln.met	0.1 TLC	1.00	1.00
25	SIM11072012.0025.raw	simsoln.met	0.1 TLC	1.00	1.00
26	SIM11072012.0026.raw	simsoln.met	0.1 TLC	1.00	1.00
27	SIM11072012.0027.raw	simsoln.met	0.1 TLC	1.00	1.00
28	SIM11072012.0028.raw	simsoln.met	0.1 TLC	1.00	1.00
29	SIM11072012.0029.raw	simsoln.met	0.1 TLC	1.00	1.00
30	SIM11072012.0030.raw	simsoln.met	CCS	1.00	1.00
31	SIM11072012.0031.raw	simsoln.met	CCS	1.00	1.00
32	SIM11072012.0032.raw	simsoln.met	0.08 ALB	1.00	1.00
33	SIM11072012.0033.raw	simsoln.met	0.08 ALB	1.00	1.00
34	SIM11072012.0034.raw	simsoln.met	0.08 ALB	1.00	1.00
35	SIM11072012.0035.raw	simsoln.met	0.08 ALB	1.00	1.00
36	SIM11072012.0036.raw	simsoln.met	0.08 ALB	1.00	1.00
37	SIM11072012.0037.raw	simsoln.met	0.08 ALB	1.00	1.00
38	SIM11072012.0038.raw	simsoln.met	0.08 ALB	1.00	1.00
39	SIM11072012.0039.raw	simsoln.met	CCS	1.00	1.00
40	SIM11072012.0040.raw	simsoln.met	CCS	1.00	1.00
41	SIM11072012.0041.raw	simsoln.met	0.08 TLC	1.00	1.00
42	SIM11072012.0042.raw	simsoln.met	0.08 TLC	1.00	1.00
43	SIM11072012.0043.raw	simsoln.met	0.08 TLC	1.00	1.00
44	SIM11072012.0044.raw	simsoln.met	0.08 TLC	1.00	1.00
45	SIM11072012.0045.raw	simsoln.met	0.08 TLC	1.00	1.00
46	SIM11072012.0046.raw	simsoln.met	0.08 TLC	1.00	1.00
47	SIM11072012.0047.raw	simsoln.met	0.08 TLC	1.00	1.00
48	SIM11072012.0048.raw	simsoln.met	CCS	1.00	1.00
49	SIM11072012.0049.raw	simsoln.met	CCS	1.00	1.00
50	SIM11072012.0050.raw	simsoln.met	0.4 ALB	1.00	1.00
51	SIM11072012.0051.raw	simsoln.met	0.4 ALB	1.00	1.00
52	SIM11072012.0052.raw	simsoln.met	0.4 ALB	1.00	1.00
53	SIM11072012.0053.raw	simsoln.met	0.4 ALB	1.00	1.00
54	SIM11072012.0054.raw	simsoln.met	0.4 ALB	1.00	1.00
55	SIM11072012.0055.raw	simsoln.met	0.4 ALB	1.00	1.00
56	SIM11072012.0056.raw	simsoln.met	0.4 ALB	1.00	1.00
57	SIM11072012.0057.raw	simsoln.met	CCS	1.00	1.00
58	SIM11072012.0058.raw	simsoln.met	CCS	1.00	1.00
59	SIM11072012.0059.raw	simsoln.met	0.4 TLC	1.00	1.00
60	SIM11072012.0060.raw	simsoln.met	0.4 TLC	1.00	1.00
61	SIM11072012.0061.raw	simsoln.met	0.4 TLC	1.00	1.00
62	SIM11072012.0062.raw	simsoln.met	0.4 TLC	1.00	1.00

Separate Solutions not included in this packet
11/8/12

Entry #	Raw File Name	Method File Name	Sample Name	Sample Wt.	Int. Std. Amount
63	SIM11072012.0063.raw	simsoln.met	0.4 TLC	1.00	1.00
64	SIM11072012.0064.raw	simsoln.met	0.4 TLC	1.00	1.00
65	SIM11072012.0065.raw	simsoln.met	0.4 TLC	1.00	1.00
66	SIM11072012.0066.raw	simsoln.met	CCS	1.00	1.00
67	SIM11072012.0067.raw	simsoln.met	CCS	1.00	1.00

File Name: C:\Methods\SIM 11072012.CAL
Version: 2

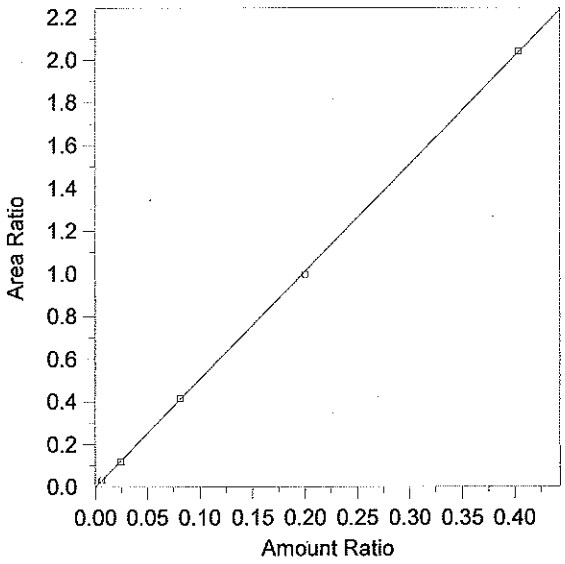
Creator:
Description:
Reason for change:

Internal standard calibration
No injection volume correction
No sample weight correction
Area reject threshold: 1000
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: 2.666 minutes
Search window: 0.1 minutes
Internal standard component: 7 (n-Propanol)
No retention time reference component
Group number: 0

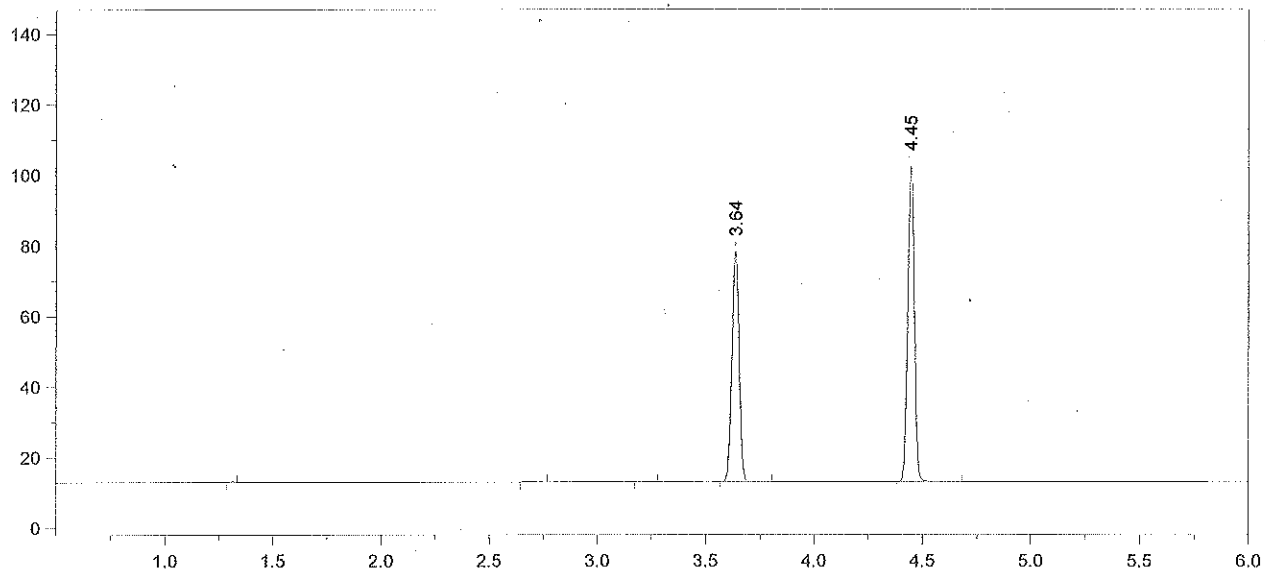
High alarm limit: 0
Low alarm limit: 0
Component constant: 0

Single peak quantification by area

Y = 5.044263 X + 0

Linear fit with equal weighting, forced to origin
Coefficient of determination: 0.9998777
Average error: 1.633%
Average CF: 5.051465
RSD: 2.064%

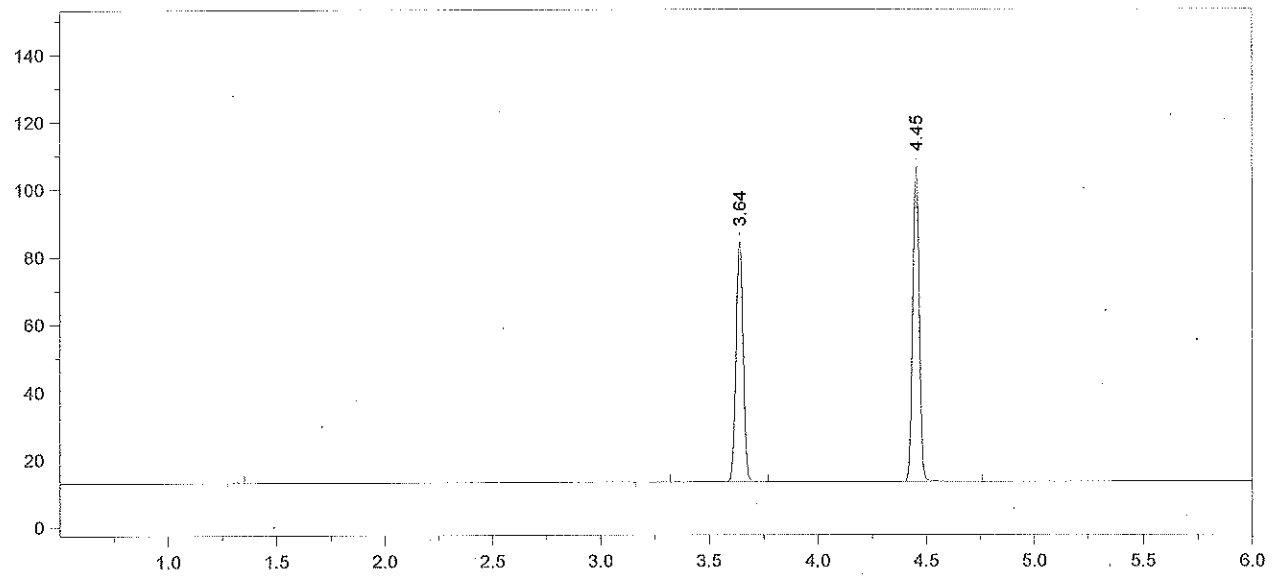
Level	Amount	Response	Cal Factor	Error, %	Amount Ratio	Response Ratio	Source	Date and time
1	(0.087)	(85146)	--	--	0.087	85146	Manual	8/8/2012 7:53:22 AM
2	0.006	5770.469	961744.9	2.944	0.006	3.115649E-02	C:\Alcohol Data\SIM11072012\SIM11072012.0005.BND	11/7/2012 3:08:54 PM
3	0.0242	23342.61	964570.6	-2.145	0.0242	0.119453	C:\Alcohol Data\SIM11072012\SIM11072012.0006.BND	11/7/2012 3:09:01 PM
4	0.0813	77460.26	952770.8	1.144	0.0813	0.4147903	C:\Alcohol Data\SIM11072012\SIM11072012.0007.BND	11/7/2012 3:09:08 PM
5	0.2004	184320.6	919763.4	-1.580	0.2004	0.9948943	C:\Alcohol Data\SIM11072012\SIM11072012.0008.BND	11/7/2012 3:09:15 PM
6	0.403	380014.2	942963.3	0.351	0.403	2.03998	C:\Alcohol Data\SIM11072012\SIM11072012.0009.BND	11/7/2012 3:09:27 PM



Format File Name = AlcoholVFL.FMT

Today's Date = 11/7/2012
Today's Time = 3:10:12 PM
Bound File Name = SIM11072012.0001.RAW
Sample Name = ~~CCS~~ Blank 11/8/12 [illegible]
Date Taken = 11/7/2012 12:00:51 PM
VFL Headspace Alcohol
Method file = Blood Alc New VFL.MET
Calibration file = SIM 11072012.CAL
Calibration Version = 2

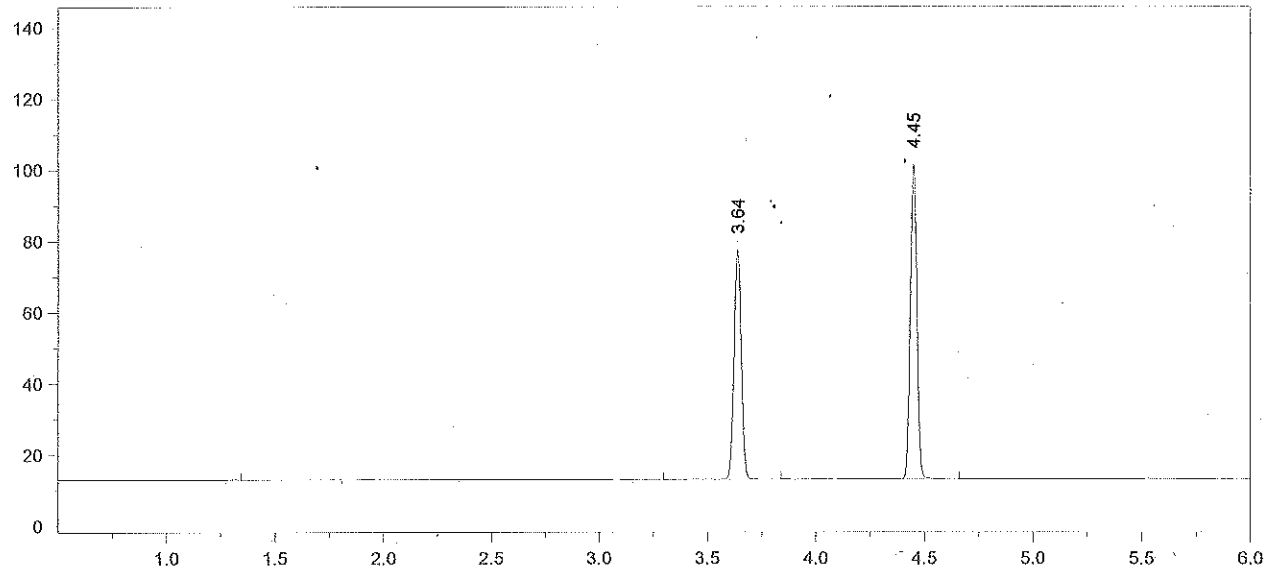
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	3.64	t-Butanol	149914	0.9761
5	4.45	n-Propanol	188155	1.0000



Format File Name = AlcoholVFL.FMT

Today's Date = 11/7/2012
Today's Time = 3:10:19 PM
Bound File Name = SIM11072012.0002.RAW
Sample Name = ~~CCS~~ Blank 11/8/12 dcB
Date Taken = 11/7/2012 12:17:54 PM
VFL Headspace Alcohol
Method file = Blood Alc New VFL.MET
Calibration file = SIM 11072012.CAL
Calibration Version = 2

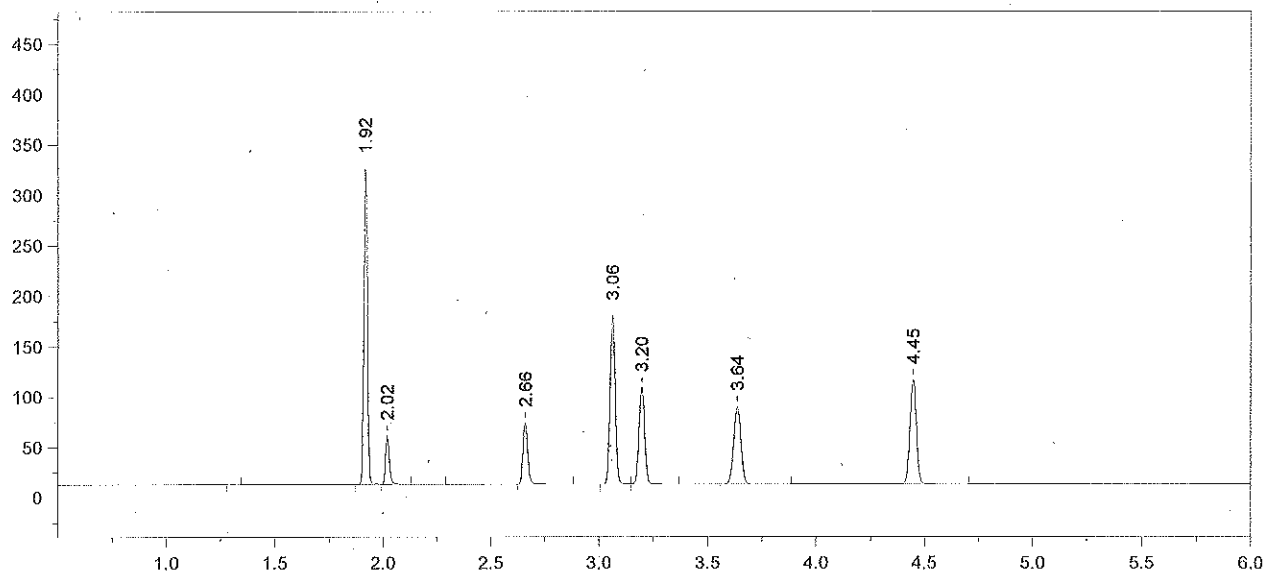
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	3.64	t-Butanol	164110	1.0095
4	4.45	n-Propanol	199152	1.0000



Format File Name = AlcoholVFL.FMT

Today's Date = 11/7/2012
Today's Time = 3:10:26 PM
Bound File Name = SIM11072012.0003.RAW
Sample Name = ~~CCS~~ Blank 11/8/12 ALB
Date Taken = 11/7/2012 12:31:45 PM
VFL Headspace Alcohol
Method file = Blood Alc New VFL.MET
Calibration file = SIM 11072012.CAL
Calibration Version = 2

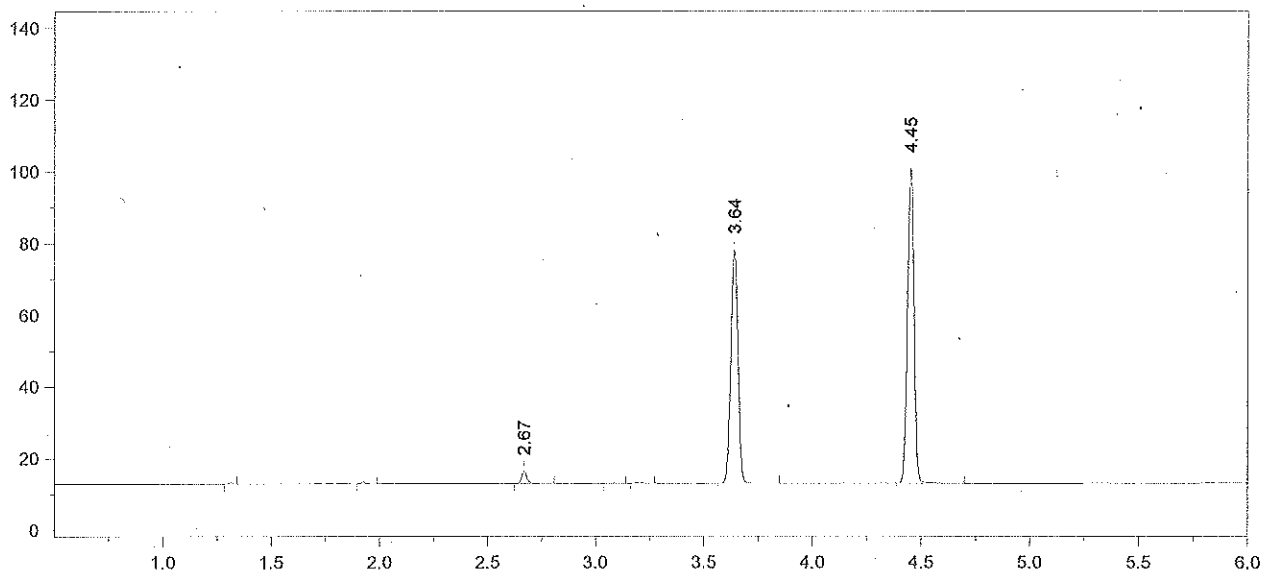
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	3.64	t-Butanol	149001	0.9756
4	4.45	n-Propanol	187105	1.0000



Format File Name = AlcoholVFL.FMT

Today's Date = 11/7/2012
Today's Time = 3:10:34 PM
Bound File Name = SIM11072012.0004.RAW
Sample Name = ~~CCS~~ TMX 11/8/12 dwB
Date Taken = 11/7/2012 12:47:36 PM
VFL Headspace Alcohol
Method file = Blood Alc New VFL.MET
Calibration file = SIM 11072012.CAL
Calibration Version = 2

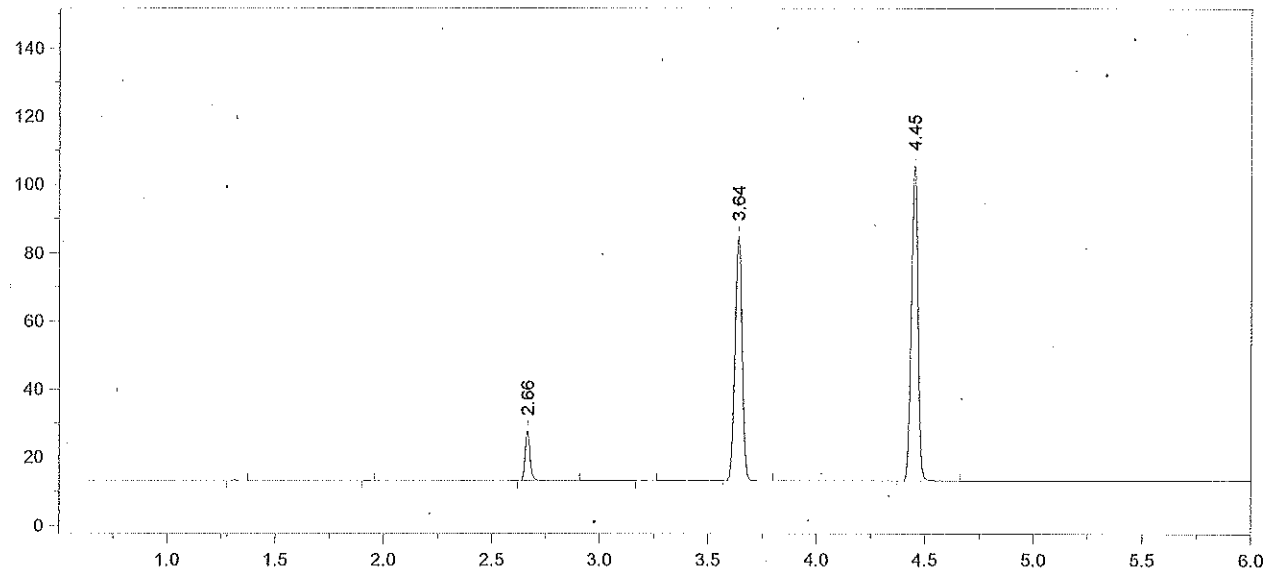
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	1.92	Acetaldehyde	361919	0.0720
3	2.02	Methanol	58392	0.1210
4	2.66	Ethanol	93959	0.0856
5	3.06	Acetone	283040	0.0690
6	3.20	Isopropanol	179619	0.0830
7	3.64	t-Butanol	177661	0.9996
8	4.45	n-Propanol	217721	1.0000



Format File Name = AlcoholVFL.FMT

Today's Date = 11/7/2012
Today's Time = 3:10:46 PM
Bound File Name = SIM11072012.0005.RAW
Sample Name = ~~CCS~~ Std A 11/8/12 dcB
Date Taken = 11/7/2012 1:03:32 PM
VFL Headspace Alcohol
Method file = Blood Alc New VFL.MET
Calibration file = SIM 11072012.CAL
Calibration Version = 2

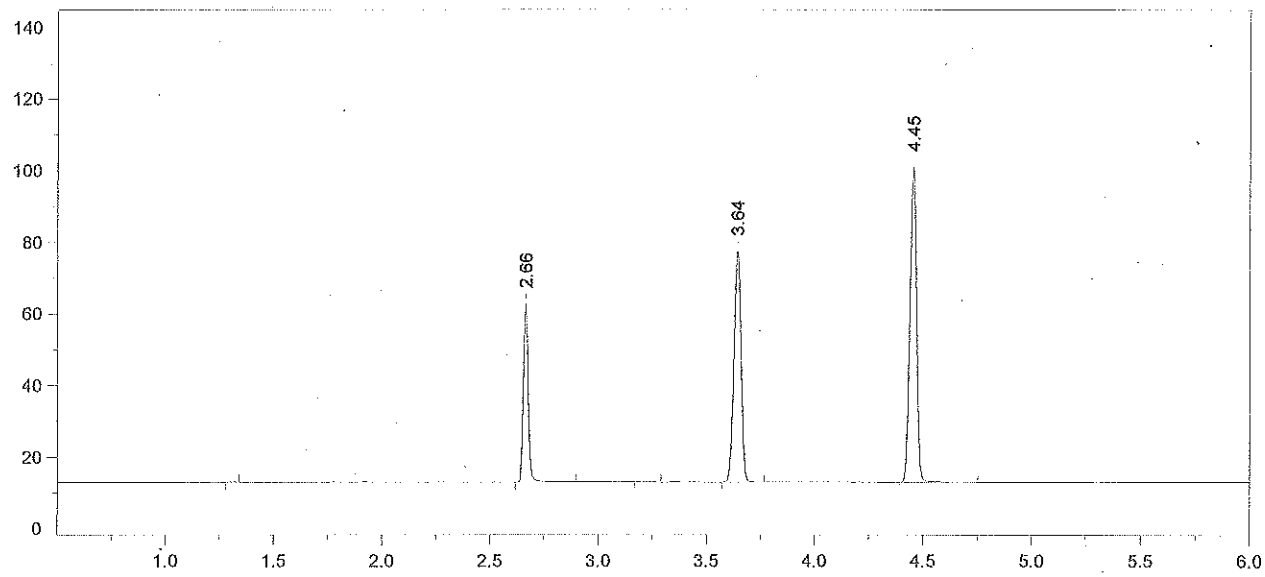
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.67	Ethanol	05770	0.0062
6	3.64	t-Butanol	150373	0.9946
7	4.45	n-Propanol	185209	1.0000



Format File Name = AlcoholVFL.FMT

Today's Date = 11/7/2012
Today's Time = 3:10:53 PM
Bound File Name = SIM11072012.0006.RAW
Sample Name = ~~CCS~~ STD B 11/8/12 AMB
Date Taken = 11/7/2012 1:19:10 PM
VFL Headspace Alcohol
Method file = Blood Alc New VFL.MET
Calibration file = SIM 11072012.CAL
Calibration Version = 2

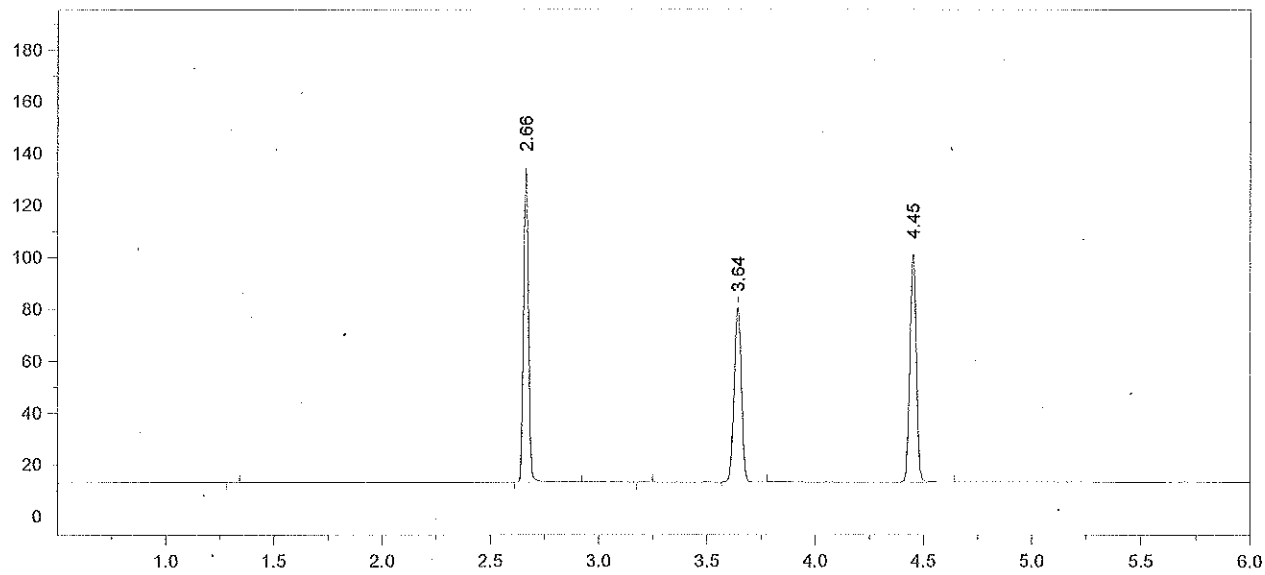
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	23343	0.0237
5	3.64	t-Butanol	164891	1.0337
6	4.45	n-Propanol	195413	1.0000



Format File Name = AlcoholVFL.FMT

Today's Date = 11/7/2012
Today's Time = 3:10:59 PM
Bound File Name = SIM11072012.0007.RAW
Sample Name = ~~CCS~~ Std C 11/8/12 dm
Date Taken = 11/7/2012 1:33:53 PM
VFL Headspace Alcohol
Method file = Blood Alc New VFL.MET
Calibration file = SIM 11072012.CAL
Calibration Version = 2

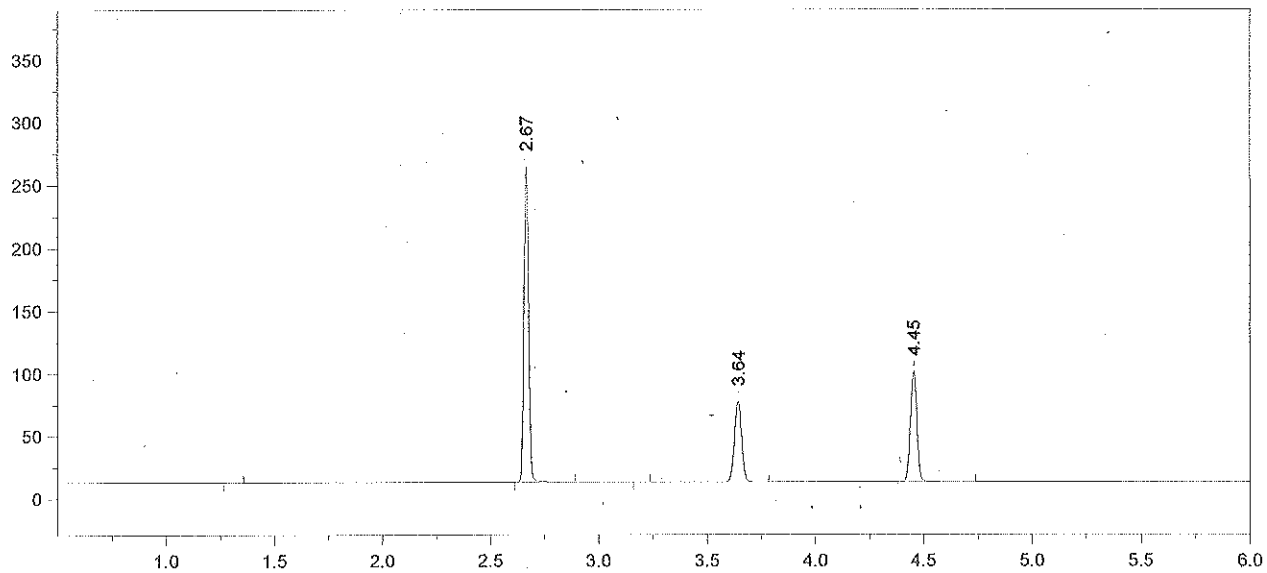
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	77460	0.0822
4	3.64	t-Butanol	148755	0.9758
5	4.45	n-Propanol	186746	1.0000



Format File Name = AlcoholVFL.FMT

Today's Date = 11/7/2012
Today's Time = 3:11:05 PM
Bound File Name = SIM11072012.0008.RAW
Sample Name = ~~CCS~~ Std 0 11/8/12
Date Taken = 11/7/2012 1:50:35 PM
VFL Headspace Alcohol
Method file = Blood Alc New VFL.MET
Calibration file = SIM 11072012.CAL
Calibration Version = 2

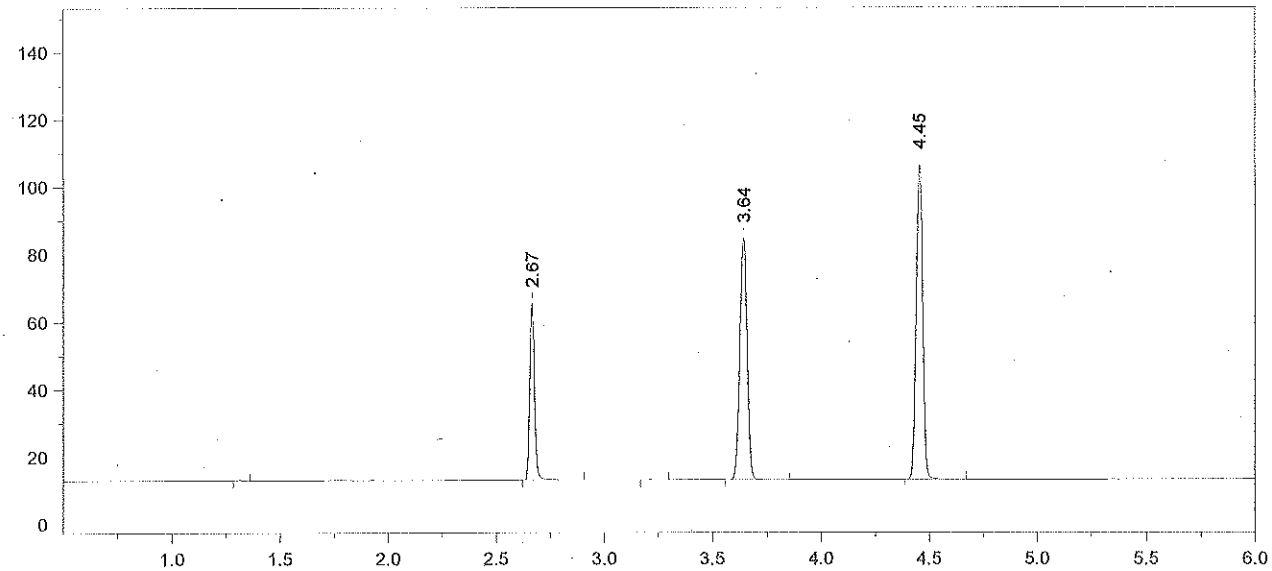
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	184321	0.1972
4	3.64	t-Butanol	155176	1.0261
5	4.45	n-Propanol	185267	1.0000



Format File Name = AlcoholVFL.FMT

Today's Date = 11/8/2012
Today's Time = 7:55:31 AM
Bound File Name = SIM11072012.0009.RAW
Sample Name = ~~CCS~~ Std E 11/8/12 dmB
Date Taken = 11/7/2012 2:03:48 PM
VFL Headspace Alcohol
Method file = Blood Alc New VFL.MET
Calibration file = SIM 11072012.CAL
Calibration Version = 2

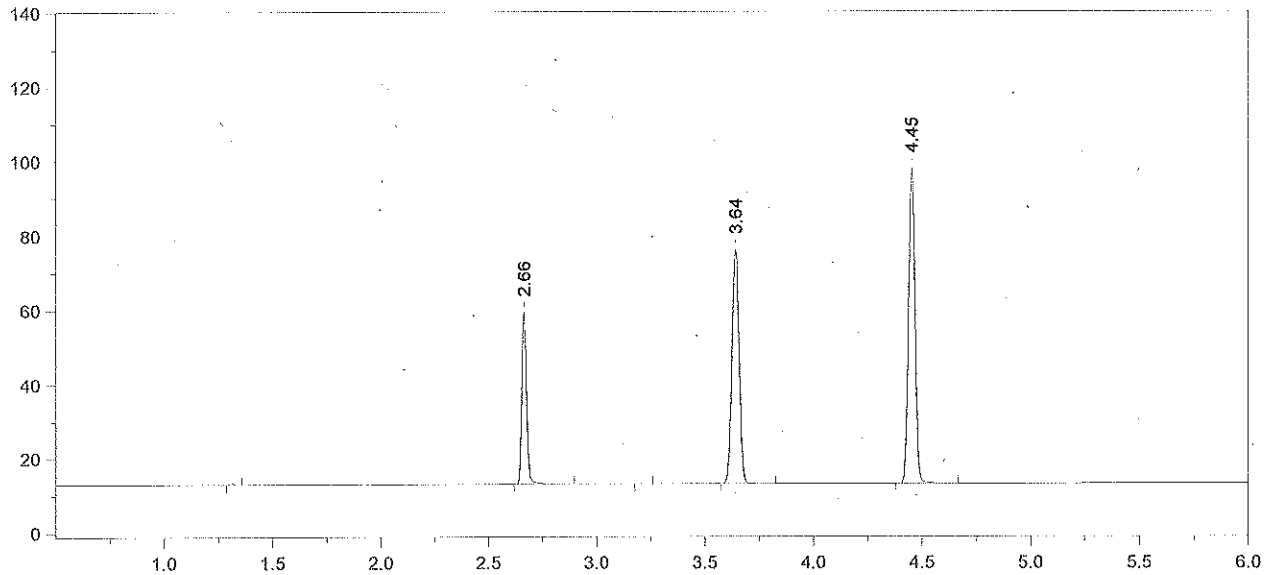
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.67	Ethanol	380014	0.4044
4	3.64	t-Butanol	147522	0.9701
5	4.45	n-Propanol	186283	1.0000



Format File Name = AlcoholVFL.FMT

Today's Date = 11/8/2012
Today's Time = 7:55:41 AM
Bound File Name = SIM11072012.0010.RAW
Sample Name = ~~CCS~~ AQ QC 11/8/12
Date Taken = 11/7/2012 2:21:57 PM
VFL Headspace Alcohol
Method file = Blood Alc New VFL.MET
Calibration file = SIM 11072012.CAL
Calibration Version = 2

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.67	Ethanol	80569	0.0803
4	3.64	t-Butanol	164898	1.0151
5	4.45	n-Propanol	199006	1.0000

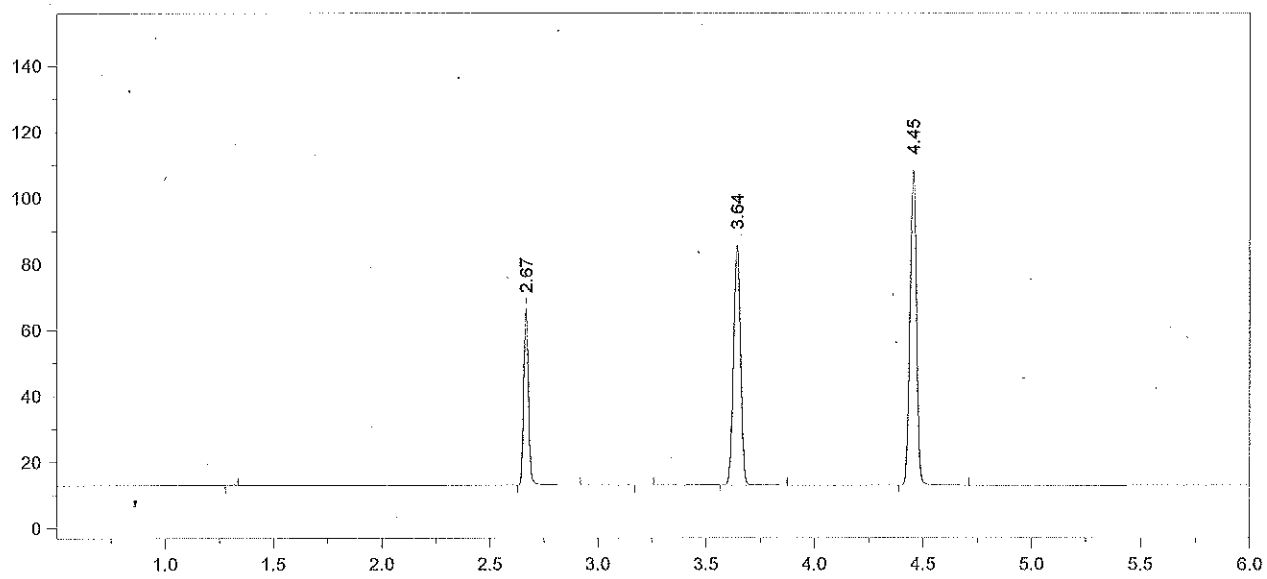


Format File Name = AlcoholVFL.FMT

Today's Date = 11/8/2012
Today's Time = 7:55:47 AM
Bound File Name = SIM11072012.0011.RAW
Sample Name = ~~CCS~~ AQ QC 11/8/12 Ser 3
Date Taken = 11/7/2012 2:35:55 PM
VFL Headspace Alcohol
Method file = Blood Alc New VFL.MET
Calibration file = SIM 11072012.CAL
Calibration Version = 2

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	72102	0.0796
4	3.64	t-Butanol	145416	0.9917
5	4.45	n-Propanol	179636	1.0000

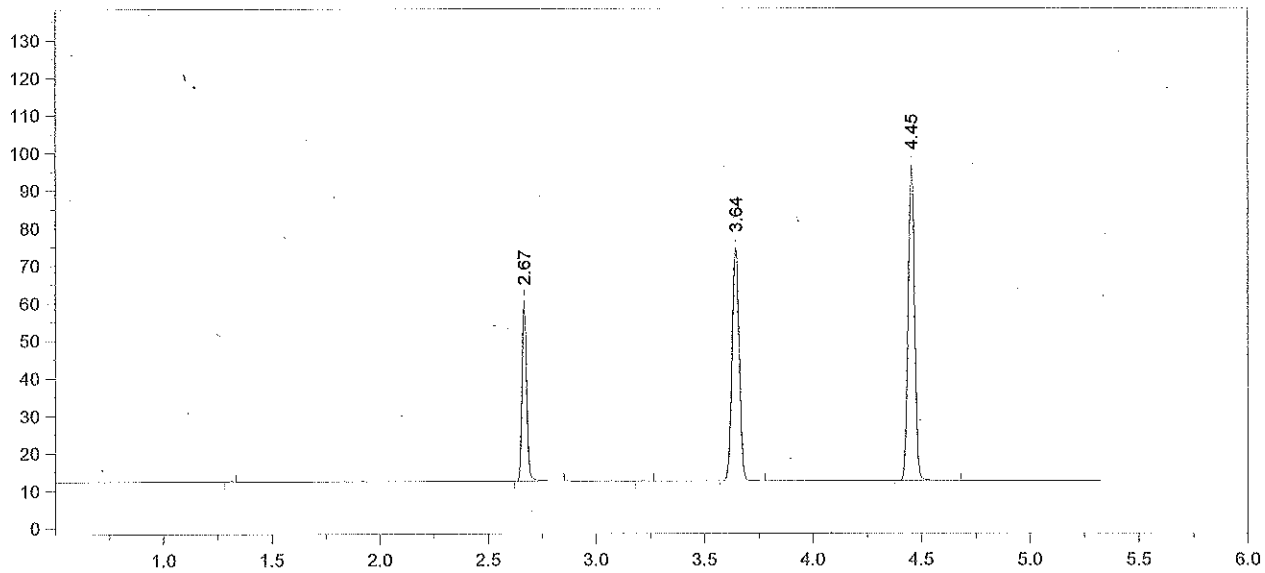
$\bar{X}$ = 0.080 100%
11/8/12



Format File Name = AlcoholVFL.FMT

Today's Date = 11/8/2012
Today's Time = 7:55:53 AM
Bound File Name = SIM11072012.0012.RAW
Sample Name = CCS
Date Taken = 11/7/2012 2:53:21 PM
VFL Headspace Alcohol
Method file = Blood Alc New VFL.MET
Calibration file = SIM 11072012.CAL
Calibration Version = 2

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.67	Ethanol	82457	0.0811 ✓
4	3.64	t-Butanol	167234	1.0160
5	4.45	n-Propanol	201652	1.0000

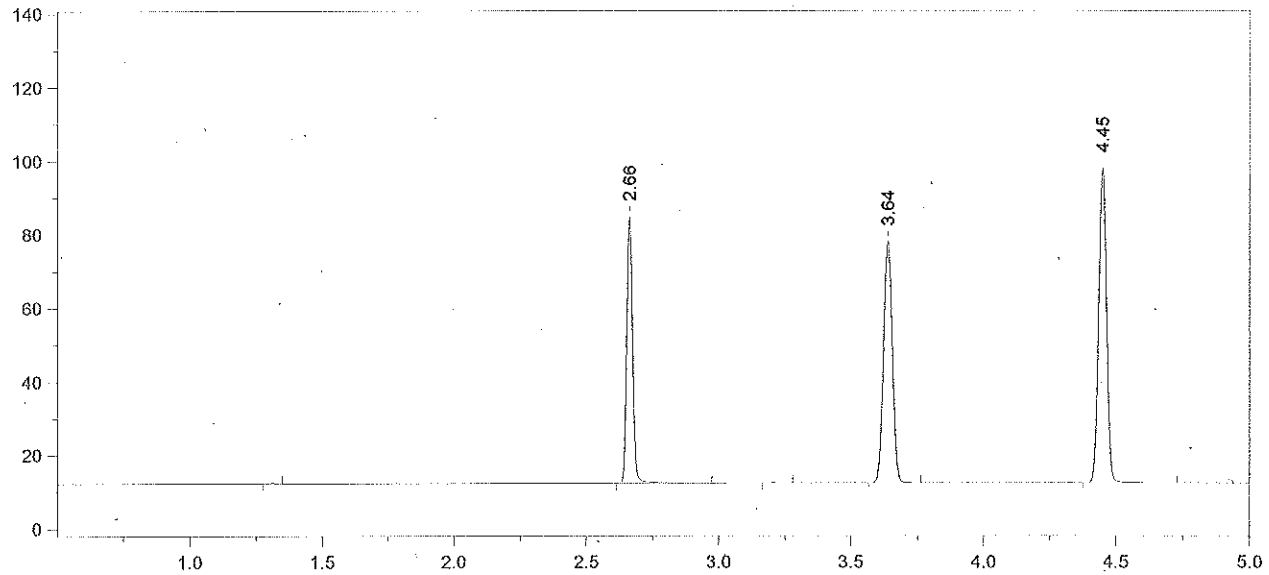


Format File Name = AlcoholVFL.FMT

Today's Date = 11/8/2012
Today's Time = 7:56:00 AM
Bound File Name = SIM11072012.0013.RAW
Sample Name = ~~0.1 TLC~~ CCS 11/8/12 ACB
Date Taken = 11/7/2012 3:06:26 PM
VFL Headspace Alcohol
Method file = Blood Alc New VFL.MET
Calibration file = SIM 11072012.CAL
Calibration Version = 2

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.67	Ethanol	74185	0.0828 ✓
4	3.64	t-Butanol	142696	0.9839
5	4.45	n-Propanol	177673	1.0000

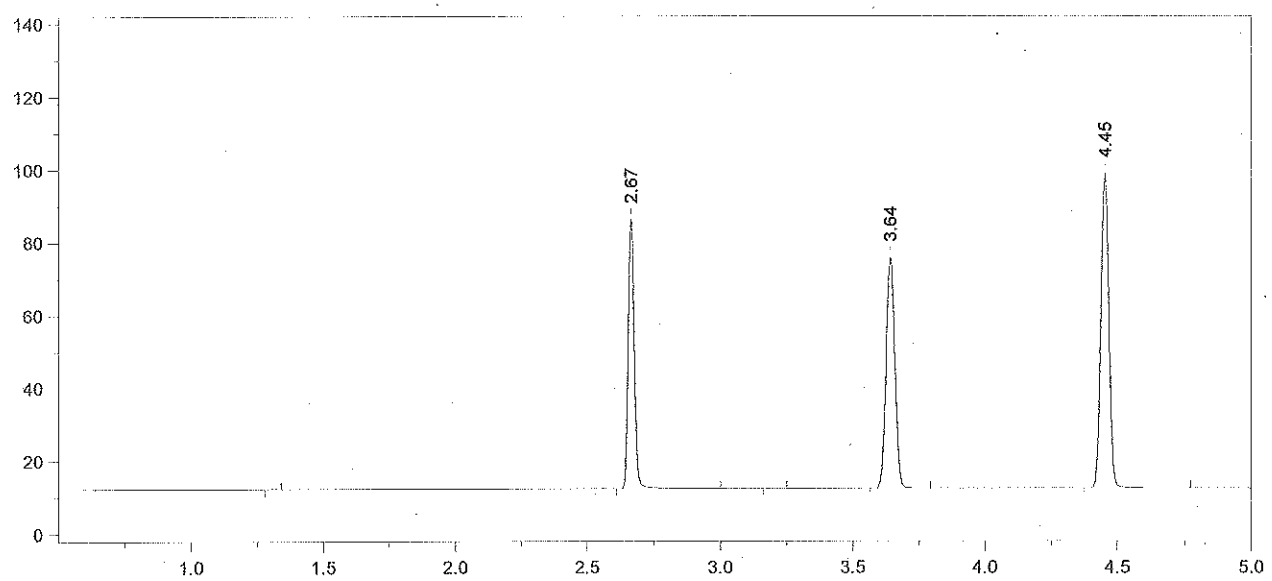
$\bar{X}$ = 0.082 ✓
11/8/12
ACB



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/7/2012 Today's Time = 3:24:54 PM
Bound File Name = SIM11072012.0014.RAW
Sample Name = 0.1 ALB
Date Taken = 11/7/2012 3:24:48 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM 11072012.CAL Calibration Version = 2

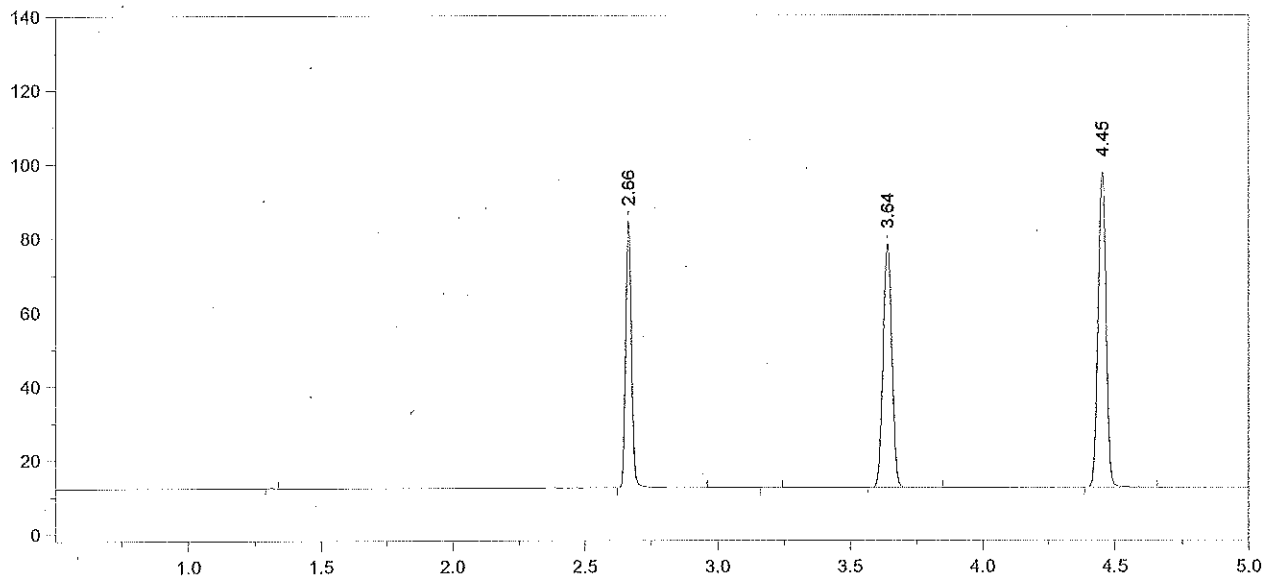
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	111365	0.1219	0.0995
4	3.64	t-Butanol	150999	1.0212	0.8335
5	4.45	n-Propanol	181135	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/7/2012
Today's Time = 3:38:38 PM
Bound File Name = SIM11072012.0015.RAW
Sample Name = 0.1 ALB
Date Taken = 11/7/2012 3:38:34 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM 11072012.CAL
Calibration Version = 2

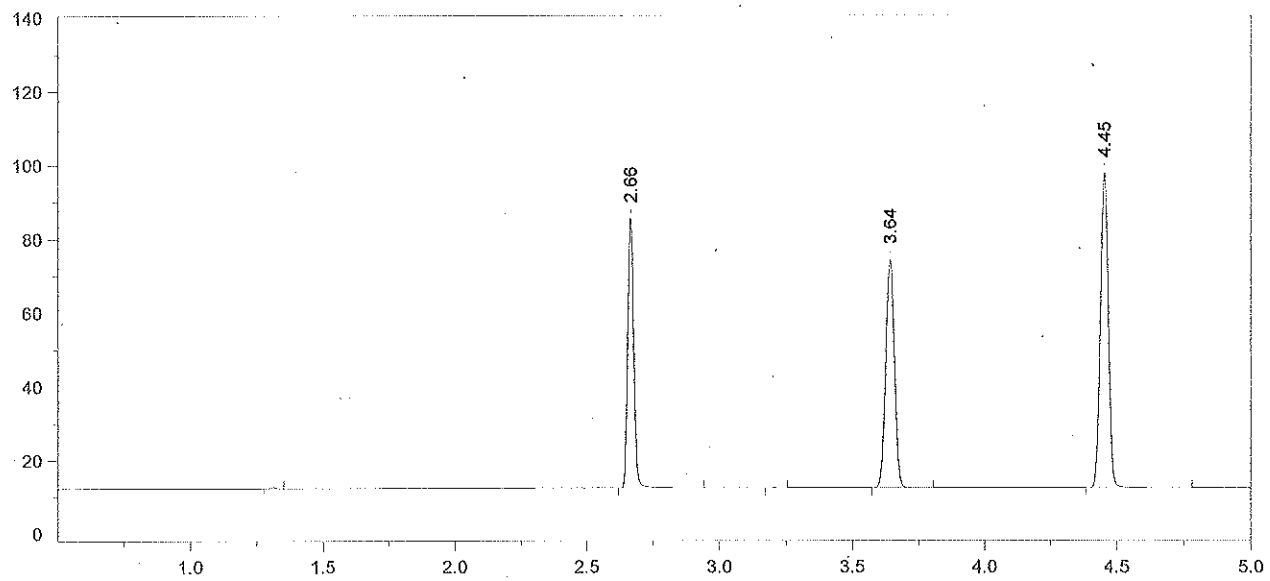
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	115292	0.1244	0.1015
4	3.64	t-Butanol	146498	0.9769	0.7973
5	4.45	n-Propanol	183710	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/7/2012
Today's Time = 3:56:26 PM
Bound File Name = SIM11072012.0016.RAW
Sample Name = 0.1 ALB
Date Taken = 11/7/2012 3:56:15 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM 11072012.CAL
Calibration Version = 2

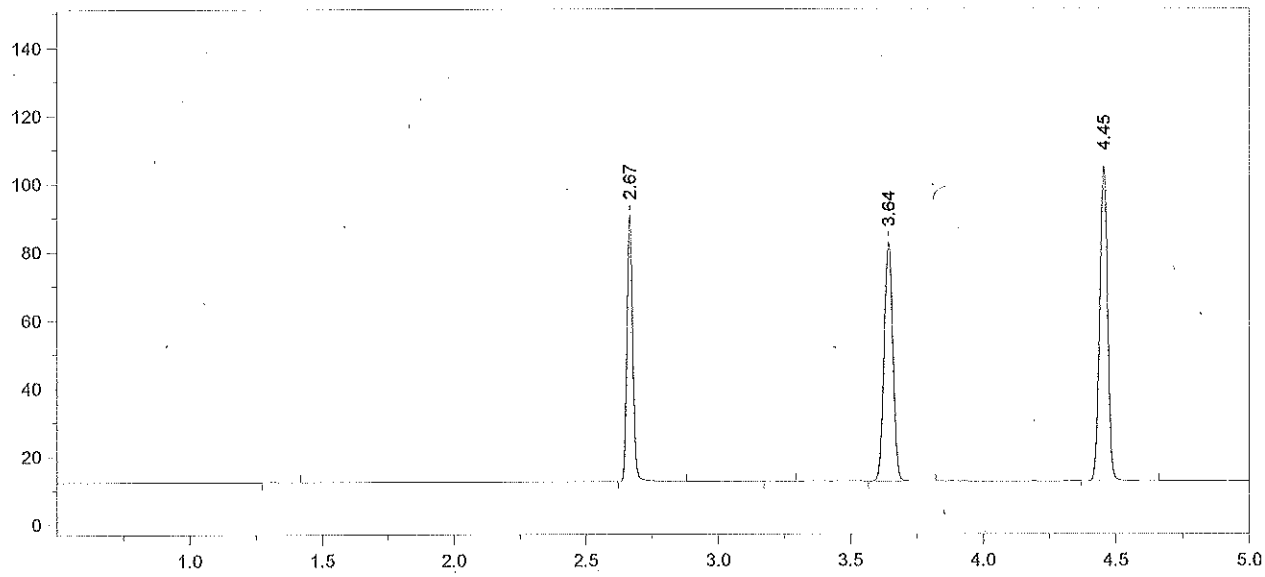
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	110599	0.1212	0.0989
4	3.64	t-Butanol	151990	1.0291	0.8400
5	4.45	n-Propanol	180923	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/7/2012 Today's Time = 4:09:37 PM
Bound File Name = SIM11072012.0017.RAW
Sample Name = 0.1 ALB
Date Taken = 11/7/2012 4:09:28 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM 11072012.CAL Calibration Version = 2

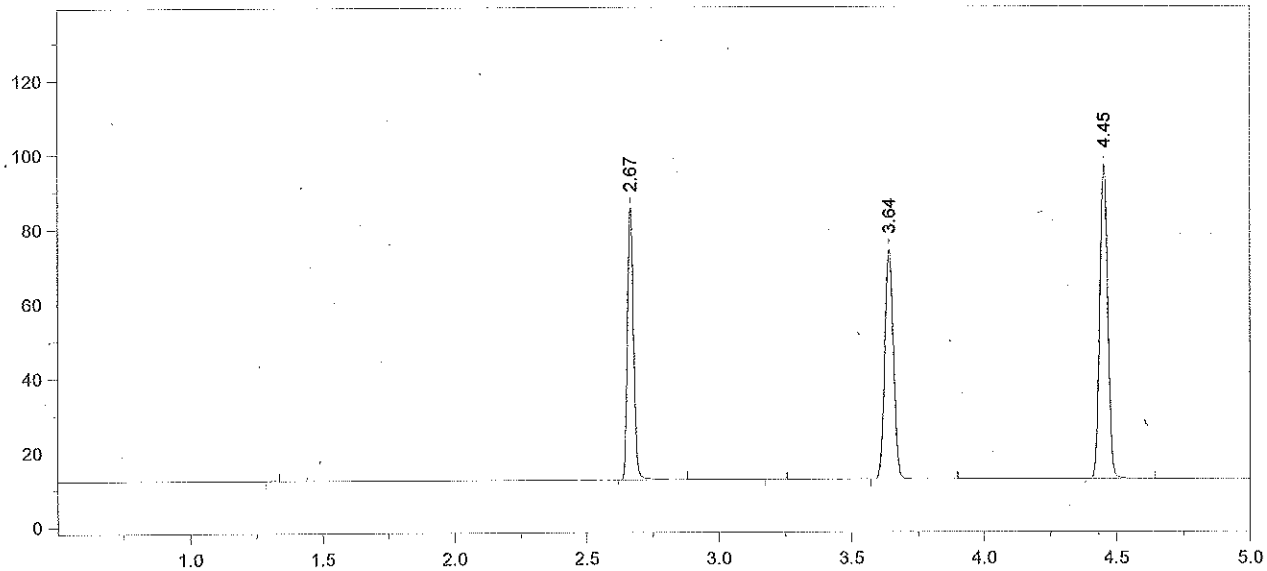
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	113873	0.1247	0.1018
4	3.64	t-Butanol	142783	0.9661	0.7885
5	4.45	n-Propanol	181054	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/7/2012 Today's Time = 4:26:09 PM
Bound File Name = SIM11072012.0018.RAW
Sample Name = 0.1 ALB
Date Taken = 11/7/2012 4:26:01 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM 11072012.CAL Calibration Version = 2

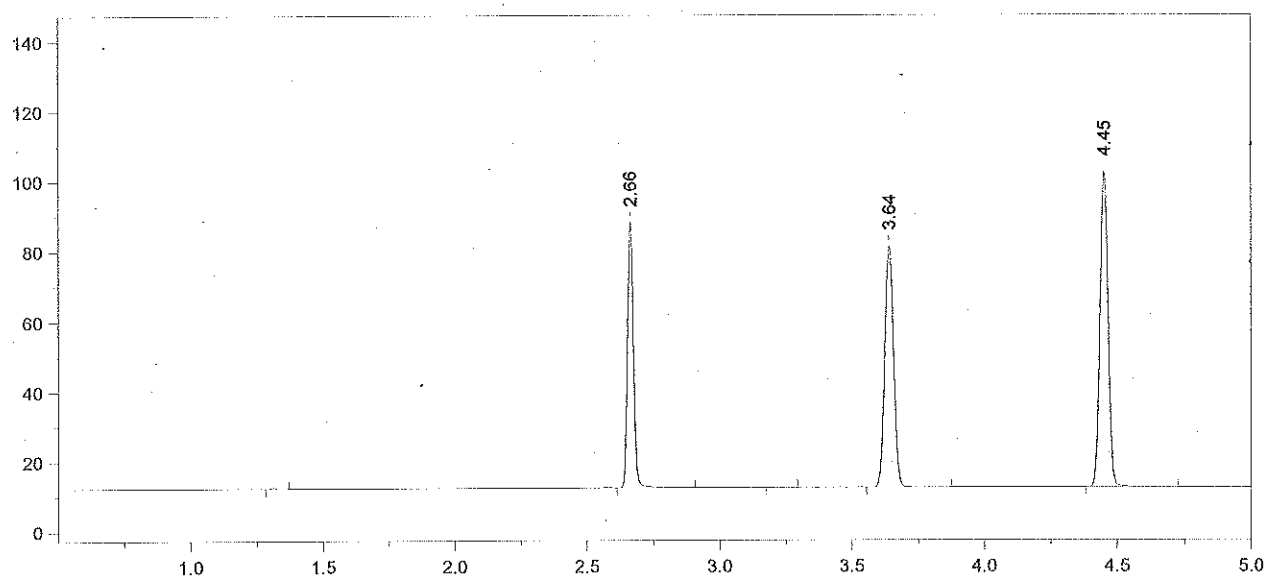
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	119382	0.1214	0.0991
4	3.64	t-Butanol	161586	1.0150	0.8285
5	4.45	n-Propanol	195019	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/7/2012
Today's Time = 4:41:35 PM
Bound File Name = SIM11072012.0019.RAW
Sample Name = 0.1 ALB
Date Taken = 11/7/2012 4:41:27 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM 11072012.CAL
Calibration Version = 2

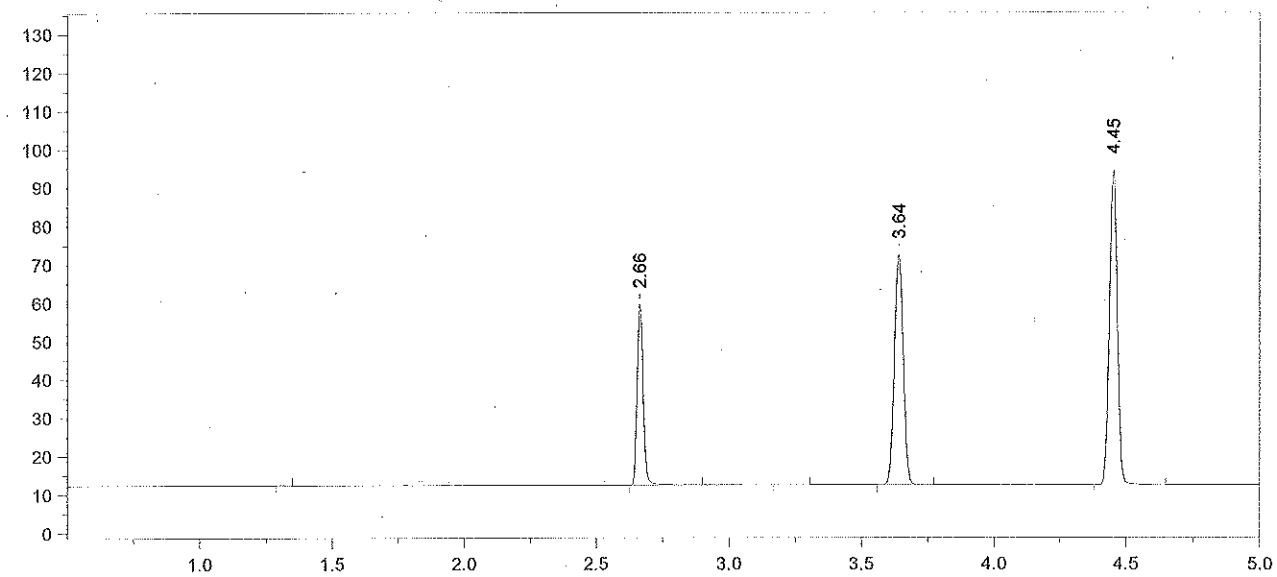
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	112890	0.1252	0.1022
4	3.64	t-Butanol	142511	0.9764	0.7969
5	4.45	n-Propanol	178806	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/7/2012
Today's Time = 4:57:38 PM
Bound File Name = SIM11072012.0020.RAW
Sample Name = 0.1 ALB
Date Taken = 11/7/2012 4:57:31 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM 11072012.CAL
Calibration Version = 2

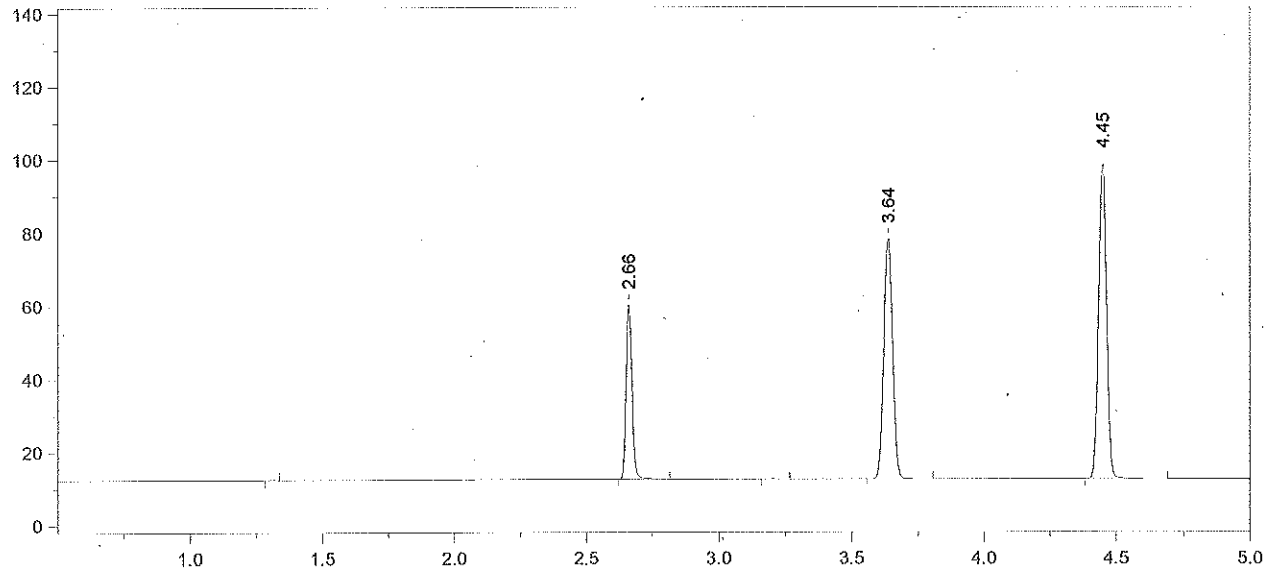
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	116697	0.1206	0.0984
4	3.64	t-Butanol	159568	1.0188	0.8315
5	4.45	n-Propanol	191875	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/7/2012 Today's Time = 5:11:56 PM
Bound File Name = SIM11072012.0021.RAW
Sample Name = CCS
Date Taken = 11/7/2012 5:11:48 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM 11072012.CAL Calibration Version = 2

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	73681	0.0840	0.0686
4	3.64	t-Butanol	138907	0.9790	0.7991
5	4.45	n-Propanol	173812	1.0000	0.8162

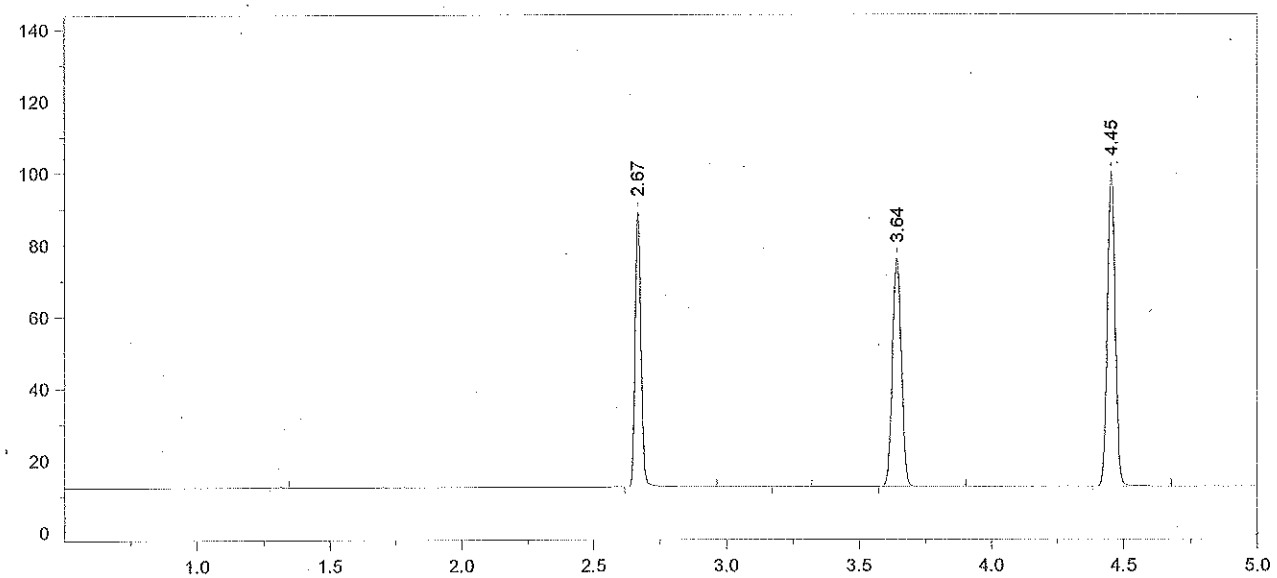


Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/7/2012 Today's Time = 5:29:02 PM
Bound File Name = SIM11072012.0022.RAW
Sample Name = CCS
Date Taken = 11/7/2012 5:28:55 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM 11072012.CAL Calibration Version = 2

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	74177	0.0805	0.0657
4	3.64	t-Butanol	152642	1.0231	0.8351
5	4.45	n-Propanol	182763	1.0000	0.8162

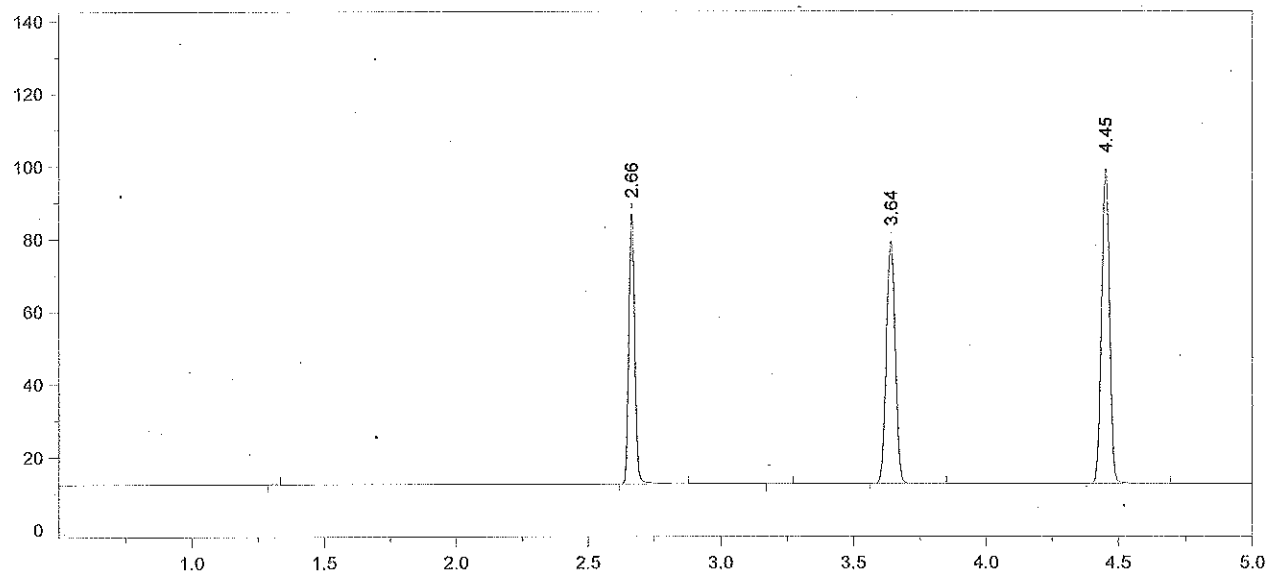
$\bar{X}$ = 0.082 ✓
11/8/12 [illegible]



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/7/2012
Today's Time = 5:42:44 PM
Bound File Name = SIM11072012.0023.RAW
Sample Name = 0.1 TLC
Date Taken = 11/7/2012 5:42:38 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM 11072012.CAL
Calibration Version = 2

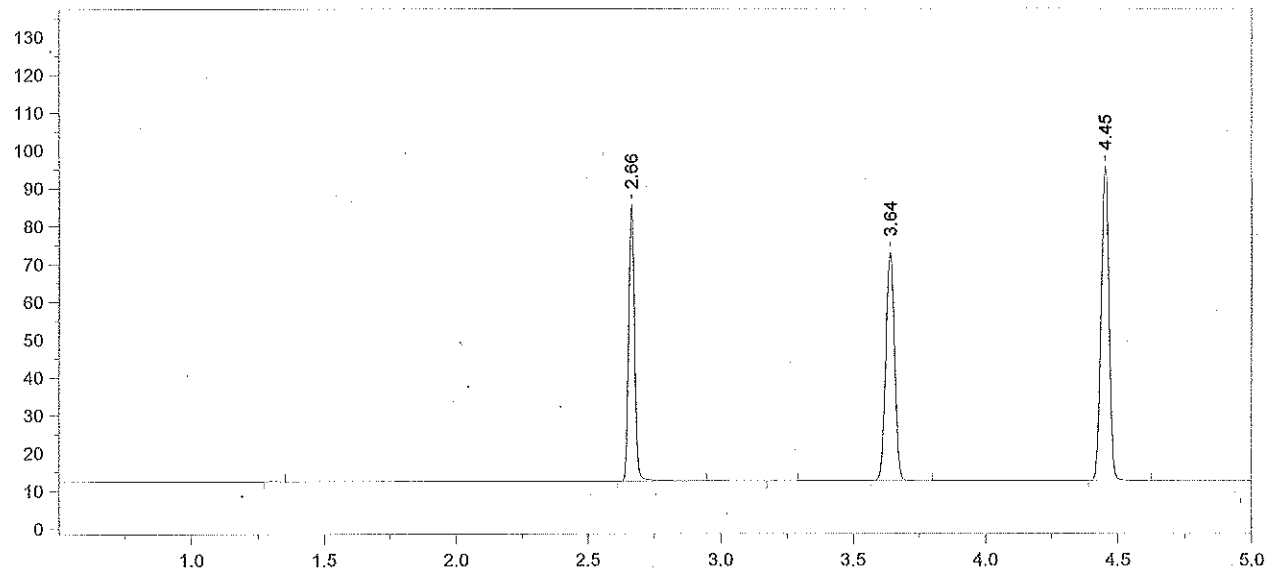
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	117428	0.1260	0.1028
4	3.64	t-Butanol	147089	0.9751	0.7959
5	4.45	n-Propanol	184785	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/7/2012
Today's Time = 6:00:27 PM
Bound File Name = SIM11072012.0024.RAW
Sample Name = 0.1 TLC
Date Taken = 11/7/2012 6:00:20 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM 11072012.CAL
Calibration Version = 2

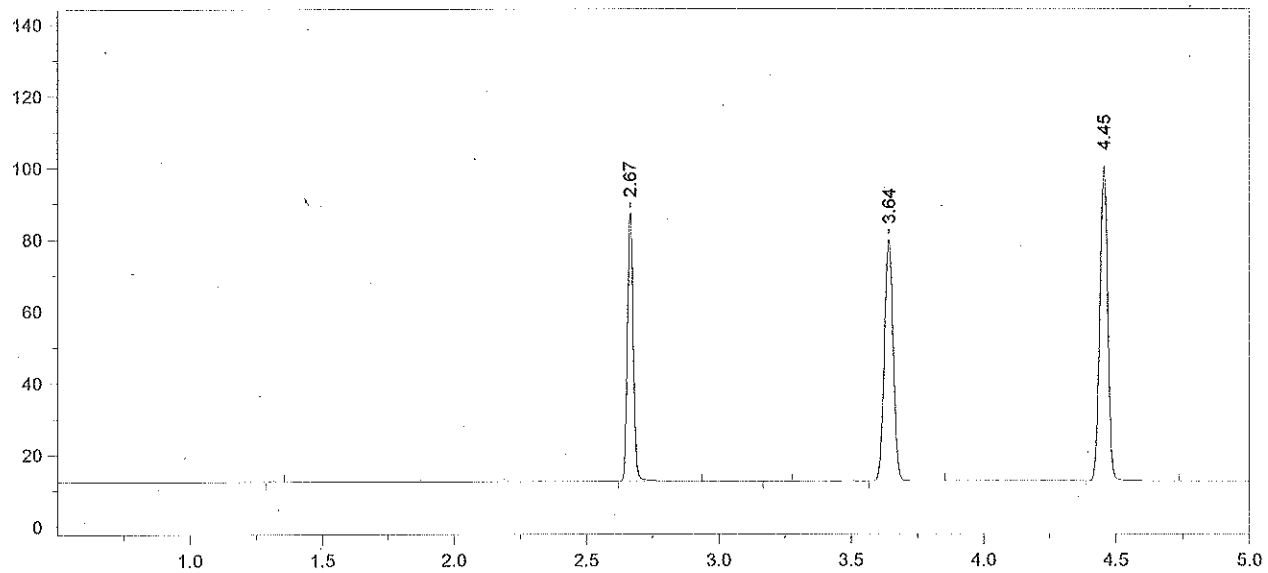
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	113987	0.1224	0.0999
4	3.64	t-Butanol	154409	1.0243	0.8360
5	4.45	n-Propanol	184675	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/7/2012 Today's Time = 6:14:19 PM
Bound File Name = SIM11072012.0025.RAW
Sample Name = 0.1 TLC
Date Taken = 11/7/2012 6:14:10 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM 11072012.CAL Calibration Version = 2

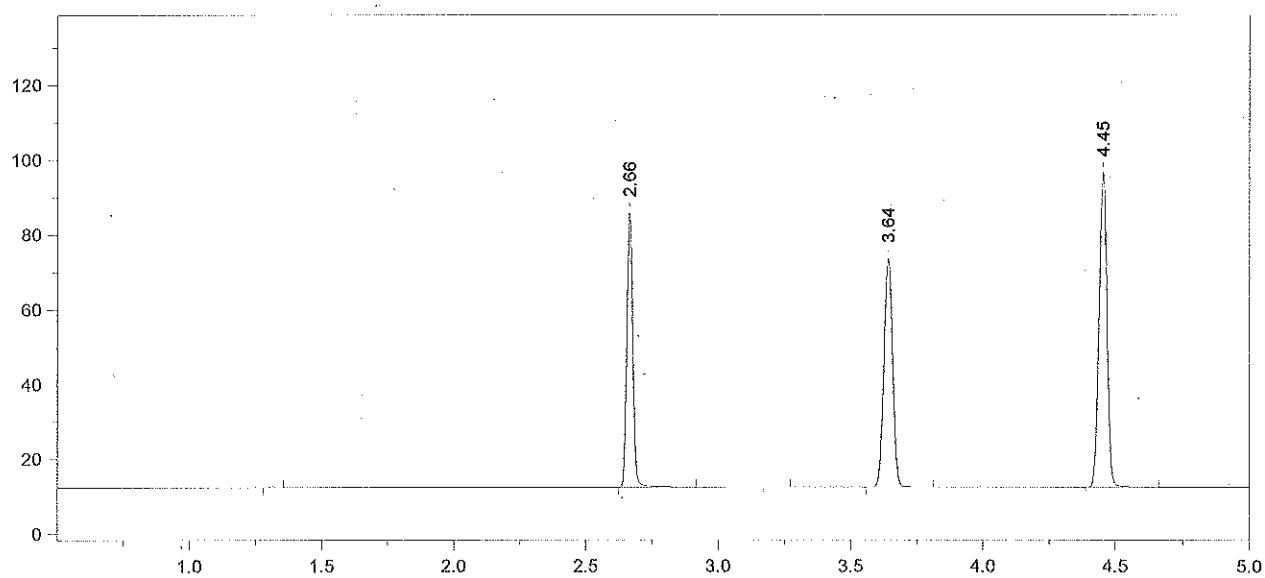
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	112587	0.1271	0.1038
4	3.64	t-Butanol	139628	0.9742	0.7952
5	4.45	n-Propanol	175572	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/7/2012
Today's Time = 6:31:49 PM
Bound File Name = SIM11072012.0026.RAW
Sample Name = 0.1 TLC
Date Taken = 11/7/2012 6:31:44 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM 11072012.CAL
Calibration Version = 2

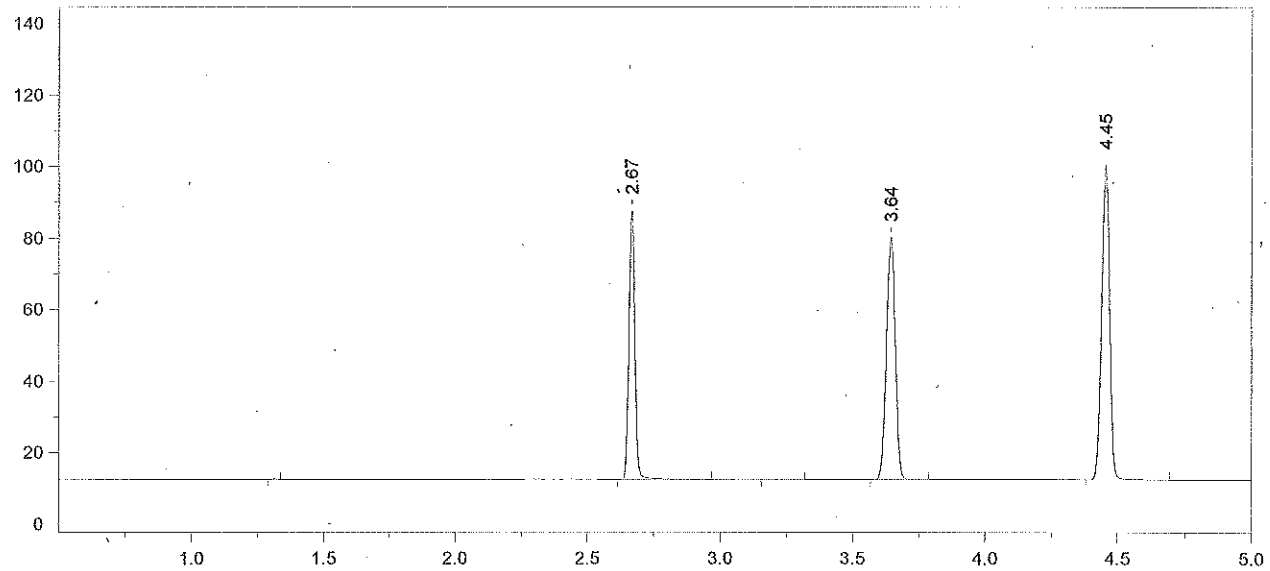
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	115041	0.1226	0.1000
4	3.64	t-Butanol	155510	1.0239	0.8357
5	4.45	n-Propanol	186056	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/7/2012 Today's Time = 6:45:41 PM
Bound File Name = SIM11072012.0027.RAW
Sample Name = 0.1 TLC
Date Taken = 11/7/2012 6:45:34 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM 11072012.CAL Calibration Version = 2

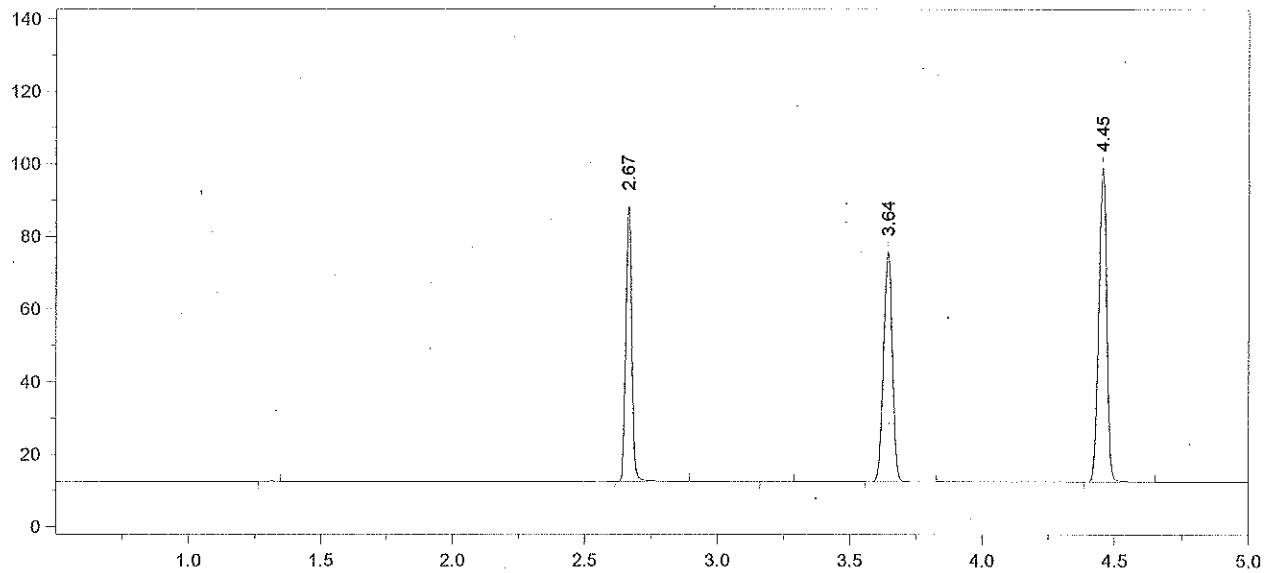
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	114178	0.1272	0.1038
4	3.64	t-Butanol	141643	0.9753	0.7960
5	4.45	n-Propanol	177921	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/7/2012 Today's Time = 7:03:17 PM
Bound File Name = SIM11072012.0028.RAW
Sample Name = 0.1 TLC
Date Taken = 11/7/2012 7:03:08 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM 11072012.CAL Calibration Version = 2

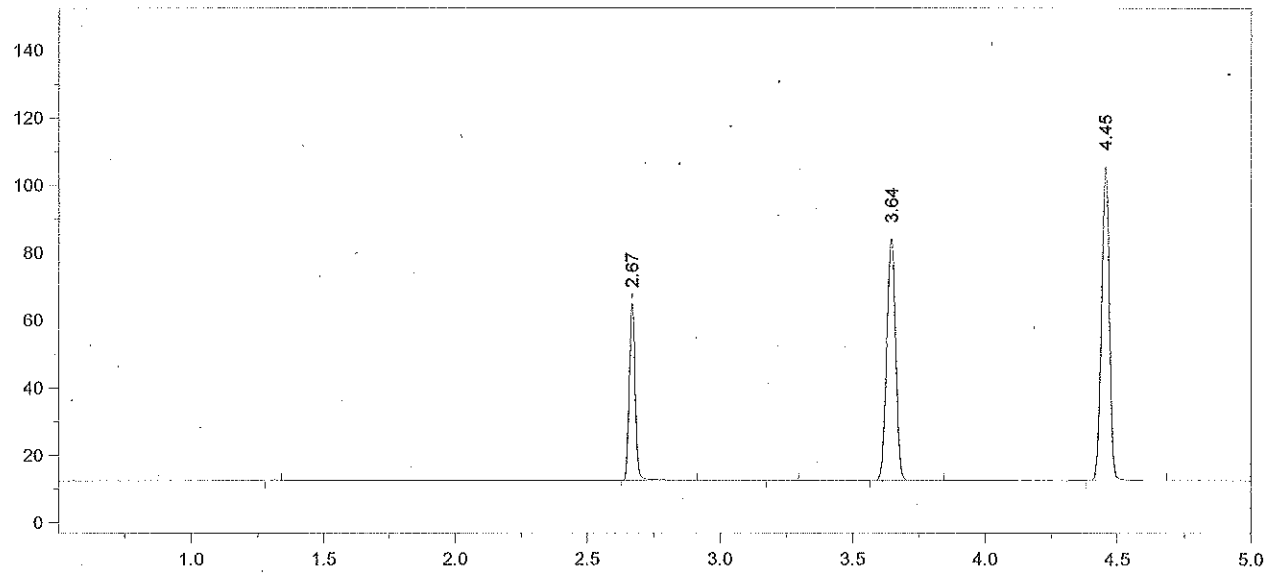
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	115604	0.1229	0.1003
4	3.64	t-Butanol	156048	1.0254	0.8369
5	4.45	n-Propanol	186430	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/7/2012 Today's Time = 7:16:51 PM
Bound File Name = SIM11072012.0029.RAW
Sample Name = 0.1 TLC
Date Taken = 11/7/2012 7:16:46 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM 11072012.CAL Calibration Version = 2

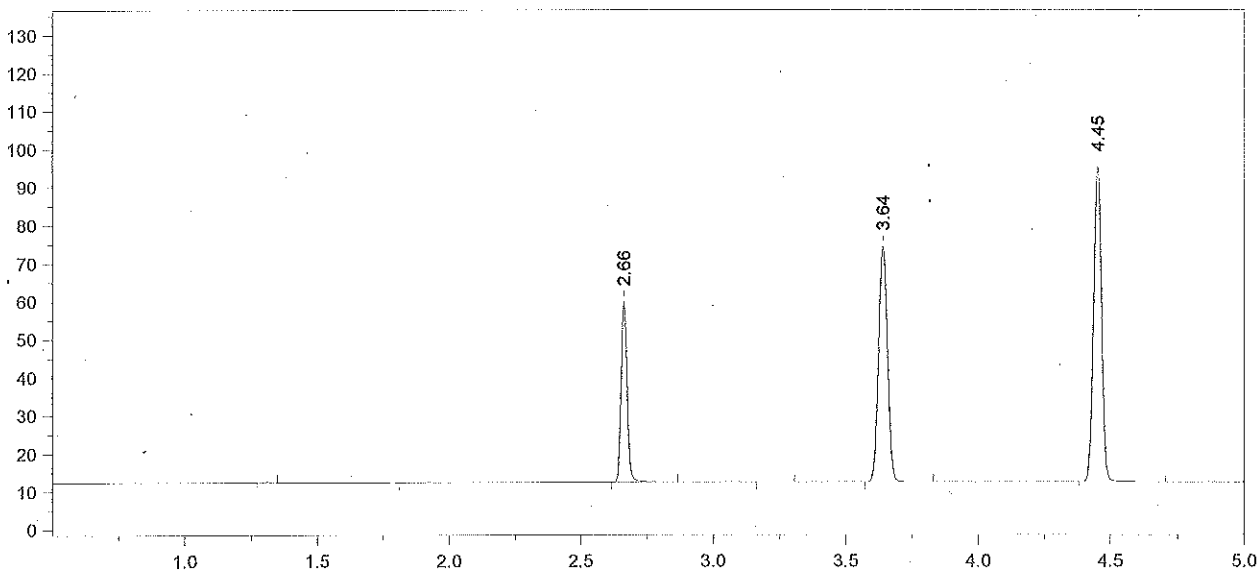
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	116958	0.1260	0.1029
4	3.64	t-Butanol	145666	0.9700	0.7917
5	4.45	n-Propanol	183959	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/7/2012 Today's Time = 7:32:56 PM
Bound File Name = SIM11072012.0030.RAW
Sample Name = CCS
Date Taken = 11/7/2012 7:32:52 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM 11072012.CAL Calibration Version = 2

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	81004	0.0811	0.0662
4	3.64	t-Butanol	165078	1.0218	0.8340
5	4.45	n-Propanol	197916	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/7/2012 Today's Time = 7:48:24 PM
Bound File Name = SIM11072012.0031.RAW
Sample Name = CCS
Date Taken = 11/7/2012 7:48:16 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM 11072012.CAL Calibration Version = 2

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	73169	0.0823	0.0672
4	3.64	t-Butanol	143024	0.9942	0.8115
5	4.45	n-Propanol	176231	1.0000	0.8162

$\bar{X}$ = 0.082
11/8/12
[illegible] ✓

Headspace Alcohol Analysis Standards Coversheet

Analyst: TLC Date: 11/1/2012

Calibration Standards:

Lot ID: ES-10012012 Preparation Date: 10/1/2012 Expiration Date: 1/1/2013

	Standard A	Standard B	Standard C	Standard D	Standard E	Calibration Check (c)
% Ethanol (w/v)	0.006	0.024	0.081	0.200	0.403	0.081
Acceptance Range (± 10%)	0.007	0.026	0.089	0.220	0.443	0.089
	0.005	0.022	0.073	0.180	0.363	0.073

Control Sample:

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

Calibration and Control Sample Data:

Vial No.	Sample Identification		Result	In Range?	Comments
1	Blank		<0.005	Y N	
2	Compound Retention Times:			N/A	
		Acetaldehyde	1.92		
		Methanol	2.02		
		Ethanol	2.67		
		Acetone	3.07		
		Isopropanol	3.20		
		T- butanol	3.64		
		n-propanol	4.45		
3	Standard A		0.006	Y N	
4	Standard B		0.023	Y N	
5	Standard C		0.082	Y N	
6	Standard D		0.197	Y N	
7	Standard E		0.404	Y N	
8	Aqueous QC		0.0785	Y N	AQ QC AVG = 0.078 ✓
9	Aqueous QC		0.0781	Y N	

File Name = C:\Alcohol Data\VFL11012012\VFL11012012.SEQ
Version = 3
File Date = 11/5/2012 1:59:17 PM

Entry #	Raw File Name	Method File Name	Sample Name	Sample Wt.	Int. Std. Amount
1	VFL11012012.0001.raw	Blood Alc New VFL.MET	Blank	1.00	1.00
2	VFL11012012.0002.raw	Blood Alc New VFL.MET	TMX	1.00	1.00
3	VFL11012012.0003.raw	Blood Alc New VFL.MET	STD A	1.00	1.00
4	VFL11012012.0004.raw	Blood Alc New VFL.MET	STD B	1.00	1.00
5	VFL11012012.0005.raw	Blood Alc New VFL.MET	STD C	1.00	1.00
6	VFL11012012.0006.raw	Blood Alc New VFL.MET	STD D	1.00	1.00
7	VFL11012012.0007.raw	Blood Alc New VFL.MET	STD E	1.00	1.00
8	VFL11012012.0008.raw	Blood Alc New VFL.MET	WB	1.00	1.00
9	VFL11012012.0009.raw	Blood Alc New VFL.MET	WB	1.00	1.00
10	VFL11012012.0010.raw	Blood Alc New VFL.MET	CCS	1.00	1.00
11	VFL11012012.0011.raw	Blood Alc New VFL.MET	CCS	1.00	1.00
12	VFL11012012.0012.raw	Blood Alc New VFL.MET	[redacted]	1.00	1.00
13	VFL11012012.0013.raw	Blood Alc New VFL.MET	[redacted]	1.00	1.00
14	VFL11012012.0014.raw	Blood Alc New VFL.MET	[redacted]	1.00	1.00
15	VFL11012012.0015.raw	Blood Alc New VFL.MET	[redacted]	1.00	1.00
16	VFL11012012.0016.raw	Blood Alc New VFL.MET	[redacted]	1.00	1.00
17	VFL11012012.0017.raw	Blood Alc New VFL.MET	[redacted]	1.00	1.00
18	VFL11012012.0018.raw	Blood Alc New VFL.MET	CCS	1.00	1.00
19	VFL11012012.0019.raw	Blood Alc New VFL.MET	CCS	1.00	1.00
20	VFL11012012.0020.raw	Blood Alc New VFL.MET	AQ QC	1.00	1.00
21	VFL11012012.0021.raw	Blood Alc New VFL.MET	AQ QC	1.00	1.00
22	VFL11012012.0022.raw	simsoln.met	TLC SIM 1	1.00	1.00
23	VFL11012012.0023.raw	simsoln.met	TLC SIM 2	1.00	1.00
24	VFL11012012.0024.raw	simsoln.met	TLC SIM 3	1.00	1.00
25	VFL11012012.0025.raw	simsoln.met	TLC SIM 4	1.00	1.00
26	VFL11012012.0026.raw	simsoln.met	TLC SIM 5	1.00	1.00
27	VFL11012012.0027.raw	simsoln.met	TLC SIM 6	1.00	1.00
28	VFL11012012.0028.raw	simsoln.met	TLC SIM 7	1.00	1.00
29	VFL11012012.0029.raw	Blood Alc New VFL.MET	CCS	1.00	1.00
30	VFL11012012.0030.raw	Blood Alc New VFL.MET	CCS	1.00	1.00
31	VFL11012012.0031.raw	simsoln.met	ALB SIM 1	1.00	1.00
32	VFL11012012.0032.raw	simsoln.met	ALB SIM 2	1.00	1.00
33	VFL11012012.0033.raw	simsoln.met	ALB SIM 3	1.00	1.00
34	VFL11012012.0034.raw	simsoln.met	ALB SIM 4	1.00	1.00
35	VFL11012012.0035.raw	simsoln.met	ALB SIM 5	1.00	1.00
36	VFL11012012.0036.raw	simsoln.met	ALB SIM 6	1.00	1.00
37	VFL11012012.0037.raw	simsoln.met	ALB SIM 7	1.00	1.00
38	VFL11012012.0038.raw	Blood Alc New VFL.MET	CCS	1.00	1.00
39	VFL11012012.0039.raw	Blood Alc New VFL.MET	CCS	1.00	1.00

NOTE: VIALS 8-17 USED FOR CASEWORK; NOT INCLUDED IN THIS PACKET.
TLC 11/8/2012

File Name: C:\Methods\VFL 11012012.CAL
Version: 1

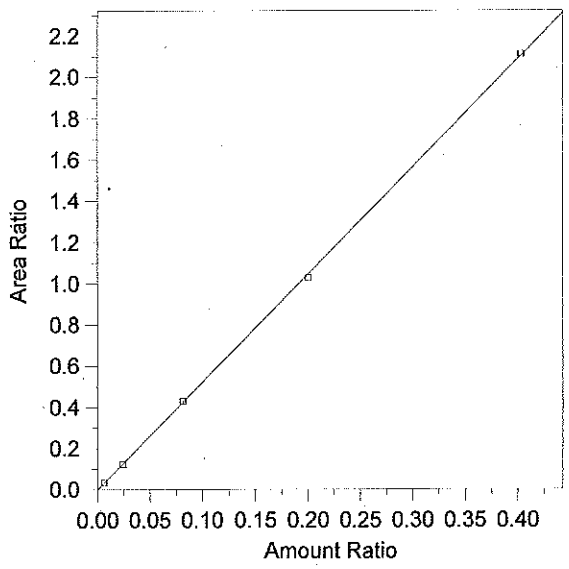
Creator:
Description:
Reason for change:

Internal standard calibration
No injection volume correction
No sample weight correction
Area reject threshold: 1000
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:	2.669 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

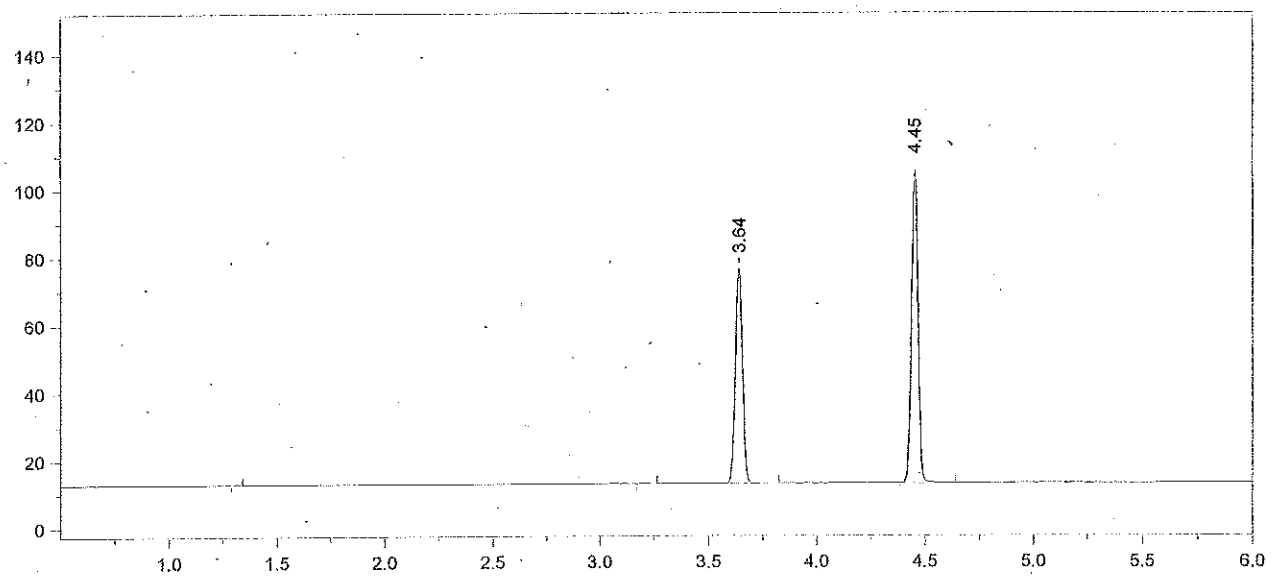
Single peak quantification by area

$Y = 5.21876 X + 0$

Linear fit with equal weighting, forced to origin

Coefficient of determination:	0.9998416
Average error:	1.859%
Average CF:	5.230674
RSD:	2.349%

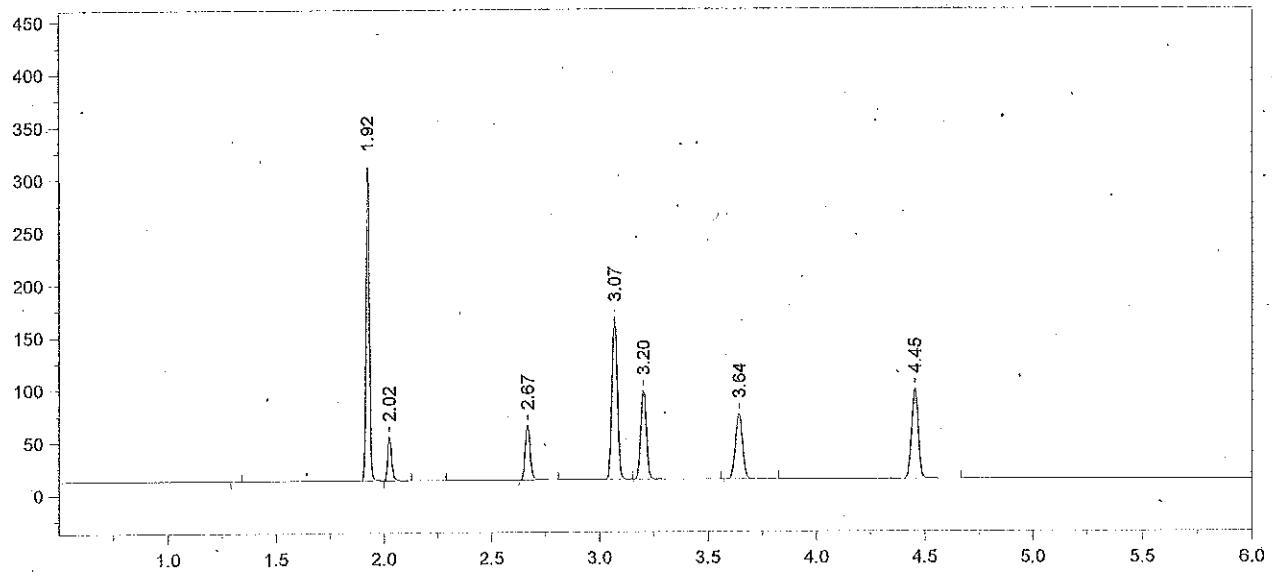
Level	Amount	Response	Cal Factor	Error, %	Amount Ratio	Response Ratio	Source	Date and time
1	(0.087)	(85146)	--	--	0.087	85146	Manual	8/8/2012 7:53:22 AM
2	0.006	6023.256	1003876	3.465	0.006	3.239764E-02	C:\Alcohol Data\VFL11012012\VFL11012012(2).0001.BND	11/5/2012 1:05:20 PM
3	0.0242	22848.79	944164.8	-2.278	0.0242	0.1234168	C:\Alcohol Data\VFL11012012\VFL11012012(3).0001.BND	11/5/2012 1:05:26 PM
4	0.0813	79230.31	974542.6	1.355	0.0813	0.430036	C:\Alcohol Data\VFL11012012\VFL11012012(4).0001.BND	11/5/2012 1:05:32 PM
5	0.2004	184314.3	919732.1	-1.798	0.2004	1.027035	C:\Alcohol Data\VFL11012012\VFL11012012(5).0001.BND	11/5/2012 1:05:39 PM
6	0.403	385916.2	957608.4	0.397	0.403	2.111507	C:\Alcohol Data\VFL11012012\VFL11012012(6).0001.BND	11/5/2012 1:05:45 PM



Format File Name = AlcoholVFL.FMT

Today's Date = 11/5/2012
Today's Time = 2:00:03 PM
Bound File Name = VFL11012012.0001.RAW
Sample Name = Blank
Date Taken = 11/1/2012 2:39:29 PM
VFL Headspace Alcohol
Method file = Blood Alc New VFL.MET
Calibration file = VFL 11012012.CAL
Calibration Version = 1

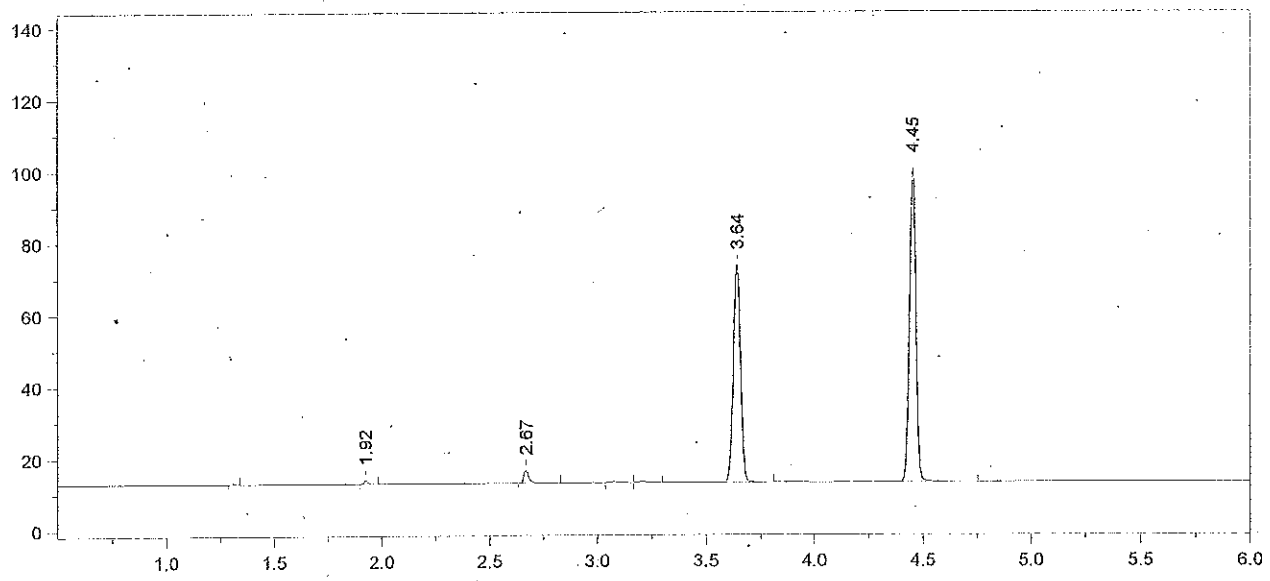
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	3.64	t-Butanol	146161	0.9706
4	4.45	n-Propanol	196230	1.0000



Format File Name = AlcoholVFL.FMT

Today's Date = 11/5/2012
Today's Time = 2:00:11 PM
Bound File Name = VFL11012012.0002.RAW
Sample Name = TMX
Date Taken = 11/1/2012 2:56:50 PM
VFL Headspace Alcohol
Method file = Blood Alc New VFL.MET
Calibration file = VFL 11012012.CAL
Calibration Version = 1

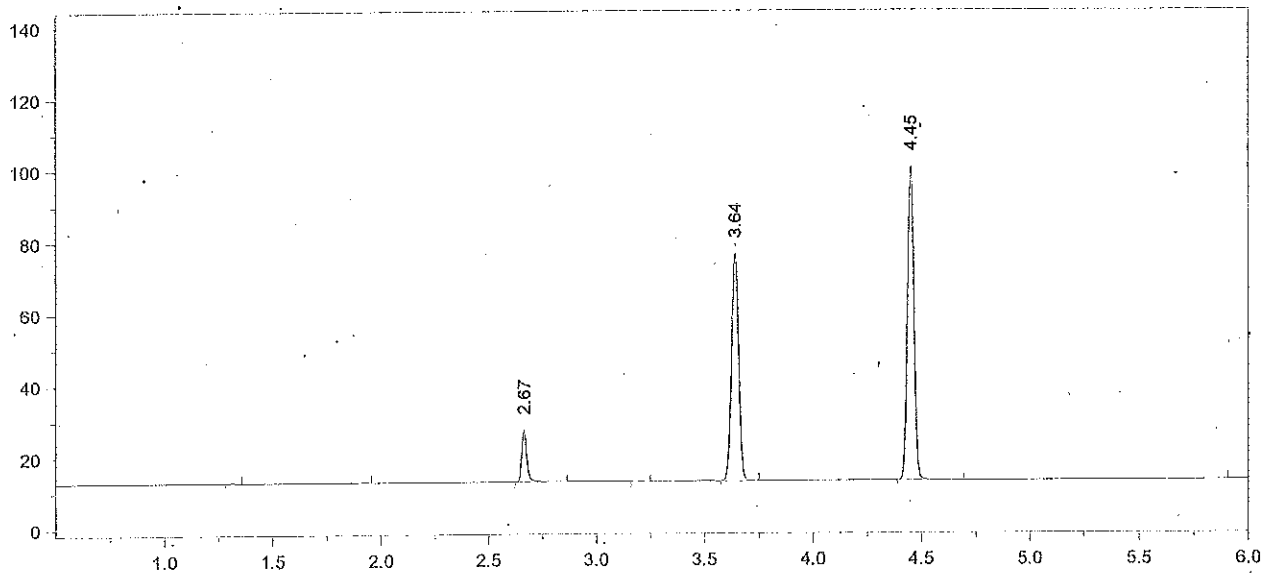
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	1.92	Acetaldehyde	340030	0.0720
3	2.02	Methanol	50933	0.1210
4	2.67	Ethanol	80317	0.0850
5	3.07	Acetone	261920	0.0690
6	3.20	Isopropanol	156824	0.0830
7	3.64	t-Butanol	142544	1.0259
8	4.45	n-Propanol	181056	1.0000



Format File Name = AlcoholVFL.FMT

Today's Date = 11/5/2012
Today's Time = 2:00:18 PM
Bound File Name = VFL11012012.0003.RAW
Sample Name = STD A
Date Taken = 11/1/2012 3:10:31 PM
VFL Headspace Alcohol
Method file = Blood Alc New VFL.MET
Calibration file = VFL 11012012.CAL
Calibration Version = 1

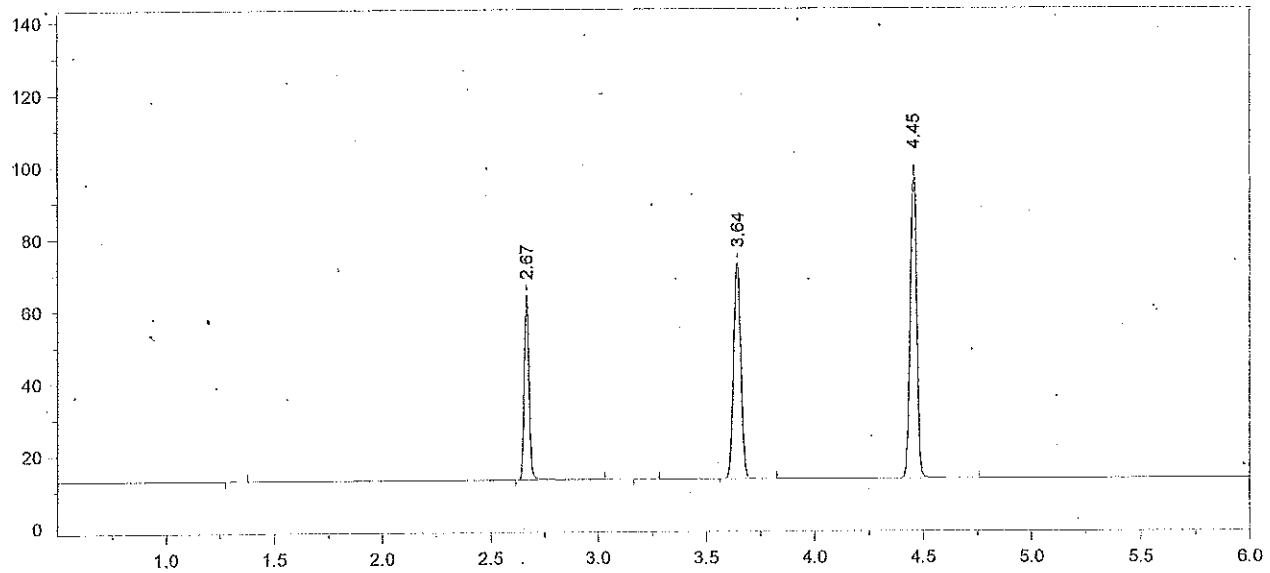
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	1.92	Acetaldehyde	01136	<0.005
3	2.67	Ethanol	06023	0.0062
6	3.64	t-Butanol	139645	0.9788
7	4.45	n-Propanol	185917	1.0000



Format File Name = AlcoholVFL.FMT

Today's Date = 11/5/2012
Today's Time = 2:00:26 PM
Bound File Name = VFL11012012.0004.RAW
Sample Name = STD B
Date Taken = 11/1/2012 3:28:17 PM
VFL Headspace Alcohol
Method file = Blood Alc New VFL.MET
Calibration file = VFL 11012012.CAL
Calibration Version = 1

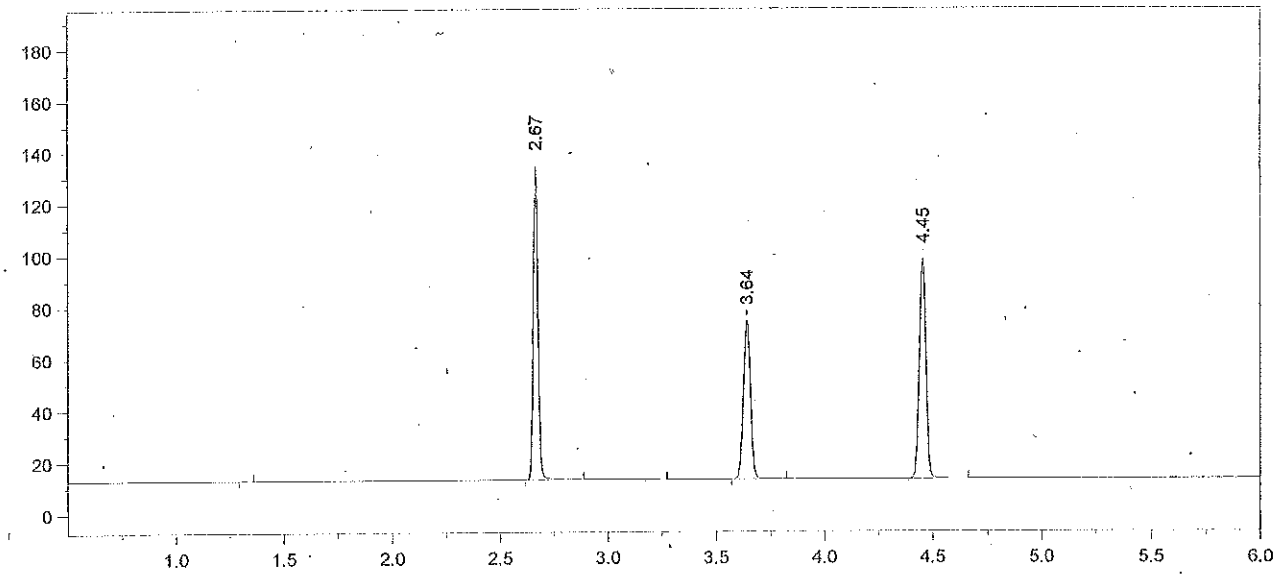
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.67	Ethanol	22849	0.0236
5	3.64	t-Butanol	146127	1.0285
6	4.45	n-Propanol	185135	1.0000



Format File Name = AlcoholVFL.FMT

Today's Date = 11/5/2012
Today's Time = 2:00:43 PM
Bound File Name = VFL11012012.0005.RAW
Sample Name = STD C
Date Taken = 11/1/2012 3:42:03 PM
VFL Headspace Alcohol
Method file = Blood Alc New VFL.MET
Calibration file = VFL 11012012.CAL
Calibration Version = 1

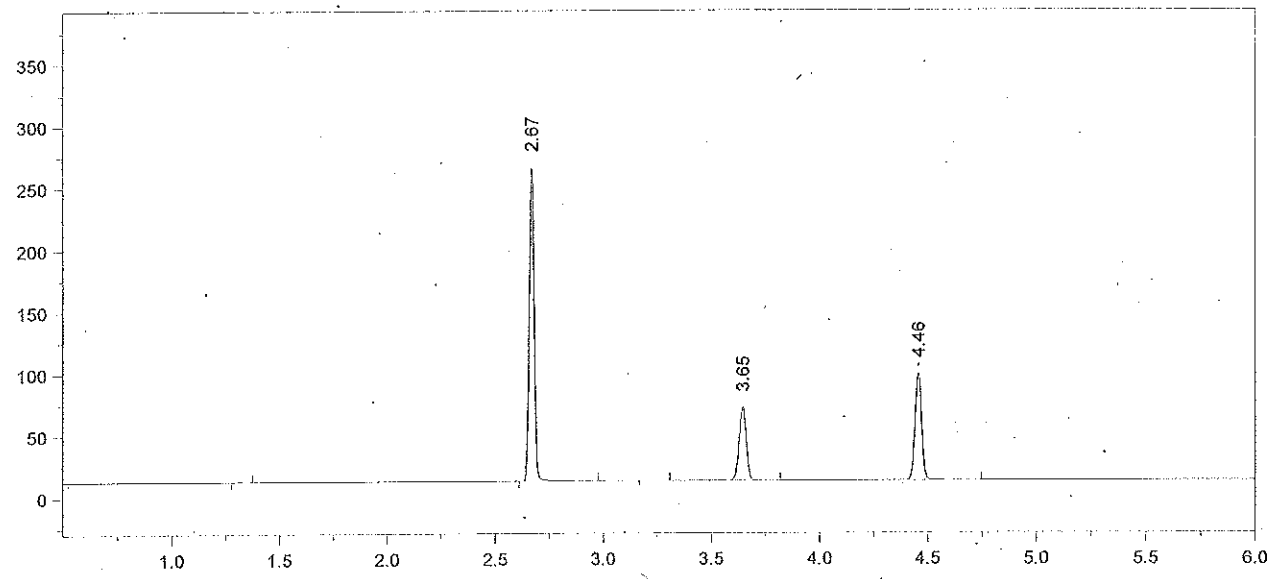
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.67	Ethanol	79230	0.0824
4	3.64	t-Butanol	137497	0.9725
5	4.45	n-Propanol	184241	1.0000



Format File Name = AlcoholVFL.FMT

Today's Date = 11/5/2012
Today's Time = 2:03:42 PM
Bound File Name = VFL11012012.0006.RAW
Sample Name = STD D
Date Taken = 11/1/2012 3:59:42 PM
VFL Headspace Alcohol
Method file = Blood Alc New VFL.MET
Calibration file = VFL 11012012.CAL
Calibration Version = 1

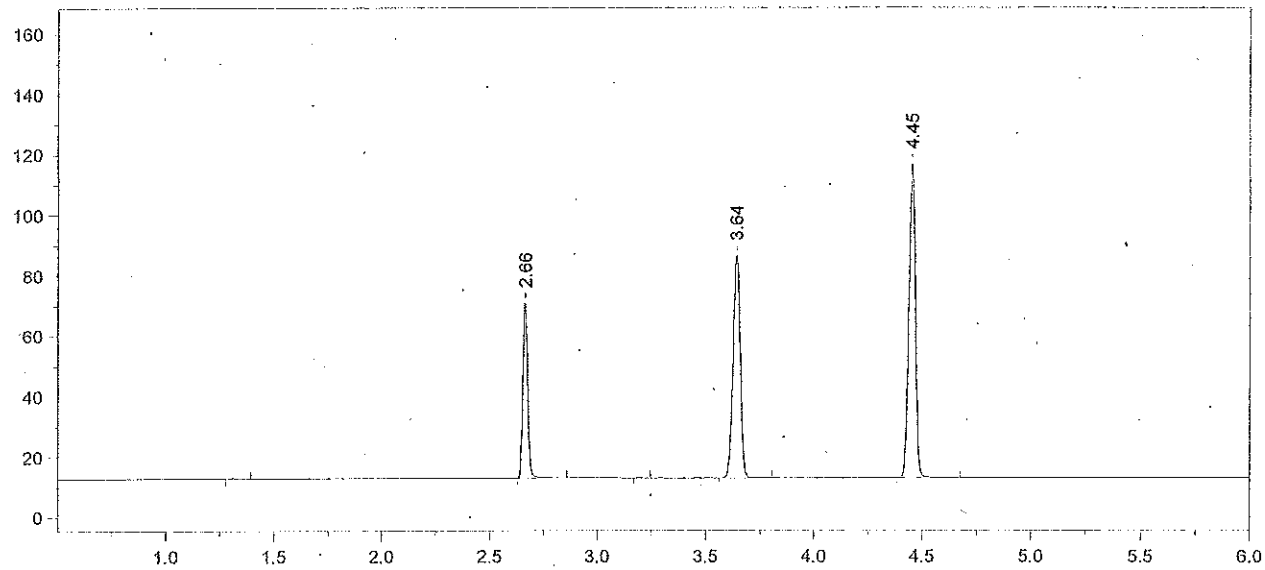
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.67	Ethanol	184314	0.1968
4	3.64	t-Butanol	141183	1.0251
5	4.45	n-Propanol	179463	1.0000



Format File Name = AlcoholVFL.FMT.

Today's Date = 11/5/2012
Today's Time = 2:03:53 PM
Bound File Name = VFL11012012.0007.RAW
Sample Name = STD E
Date Taken = 11/1/2012 4:13:25 PM
VFL Headspace Alcohol
Method file = Blood Alc New VFL.MET
Calibration file = VFL 11012012.CAL
Calibration Version = 1

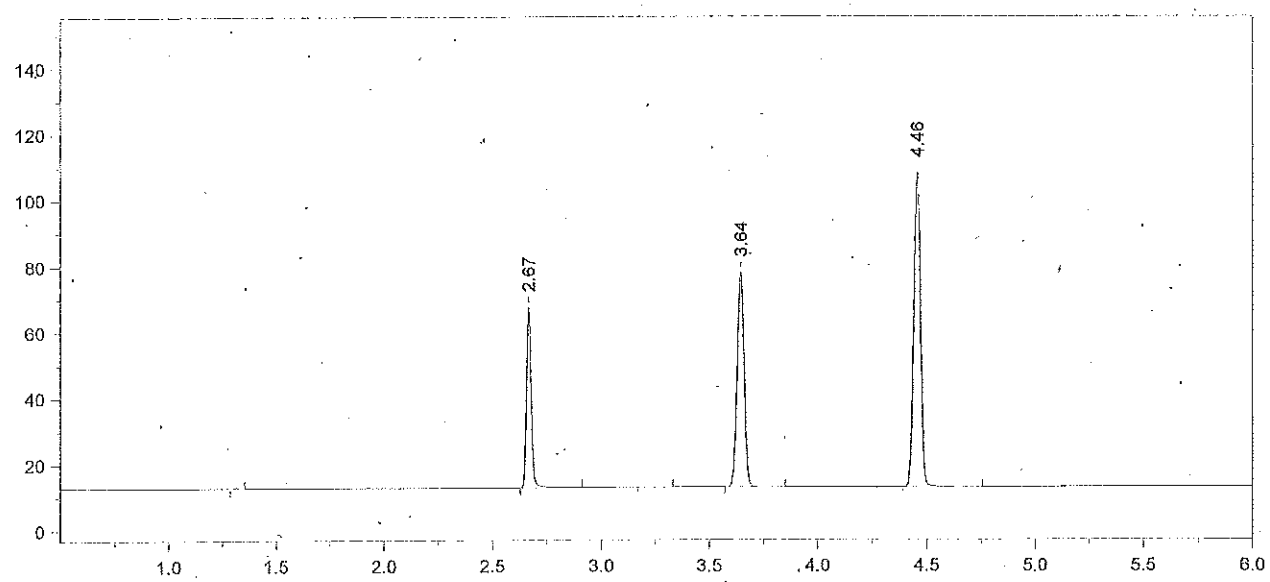
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.67	Ethanol	385916	0.4046
4	3.65	t-Butanol	135935	0.9692
5	4.46	n-Propanol	182768	1.0000



Format File Name = AlcoholVFL.FMT

Today's Date = 11/5/2012
Today's Time = 2:05:12 PM
Bound File Name = VFL11012012.0018.RAW
Sample Name = CCS
Date Taken = 11/1/2012 7:03:54 PM
VFL Headspace Alcohol
Method file = Blood Alc New VFL.MET
Calibration file = VFL 11012012.CAL
Calibration Version = 1

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	89390	0.0784
4	3.64	t-Butanol	169739	1.0121
5	4.45	n-Propanol	218539	1.0000

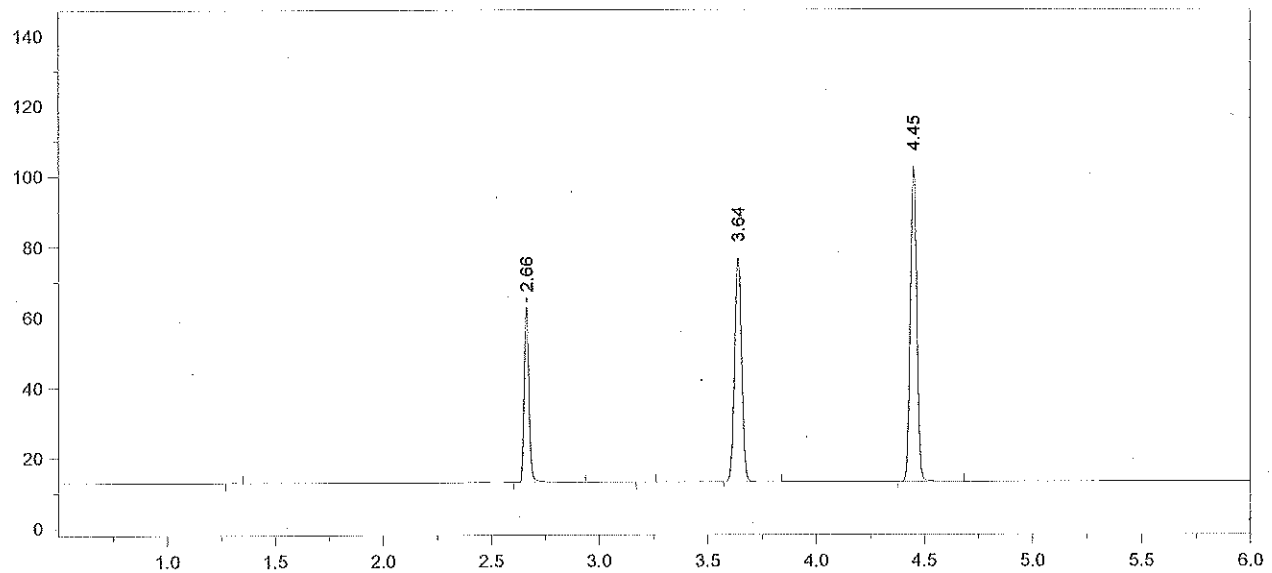


Format File Name = AlcoholVFL.FMT

Today's Date = 11/5/2012
Today's Time = 2:05:19 PM
Bound File Name = VFL11012012.0019.RAW
Sample Name = CCS
Date Taken = 11/1/2012 7:19:18 PM
VFL Headspace Alcohol
Method file = Blood Alc New VFL.MET
Calibration file = VFL 11012012.CAL
Calibration Version = 1

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.67	Ethanol	84354	0.0799
4	3.64	t-Butanol	150113	0.9666
5	4.46	n-Propanol	202371	1.0000

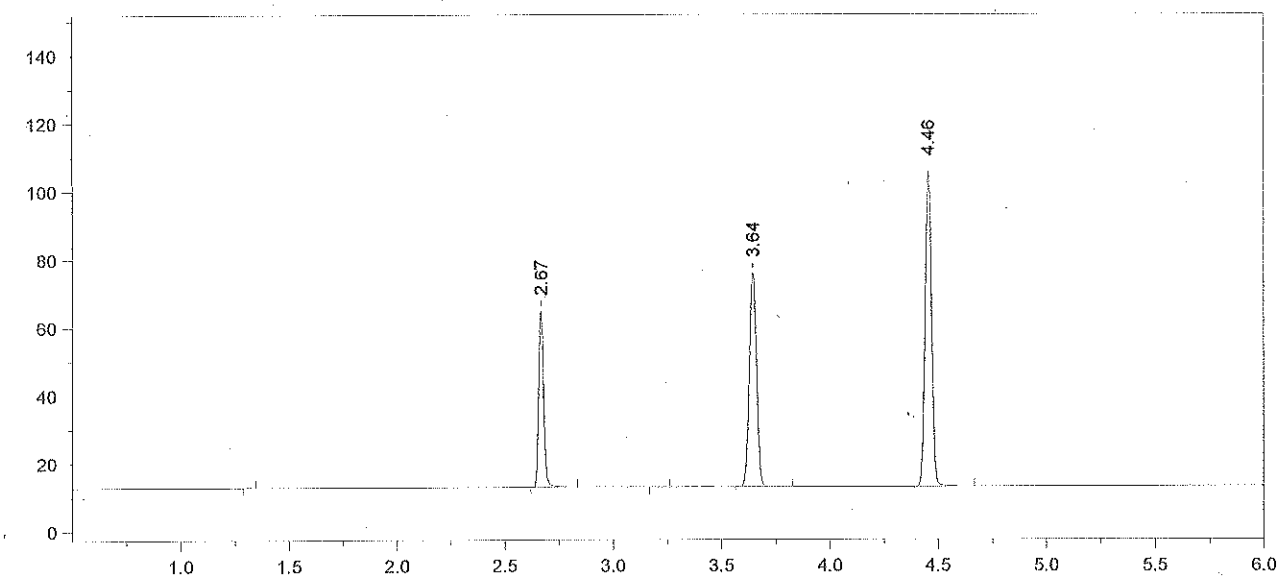
AVG CCS (VIAL # 18 & #19) = 0.079



Format File Name = AlcoholVFL.FMT

Today's Date = 11/5/2012
Today's Time = 2:05:26 PM
Bound File Name = VFL11012012.0020.RAW
Sample Name = AQ QC
Date Taken = 11/1/2012 7:35:29 PM
VFL Headspace Alcohol
Method file = Blood Alc New VFL.MET
Calibration file = VFL 11012012.CAL
Calibration Version = 1

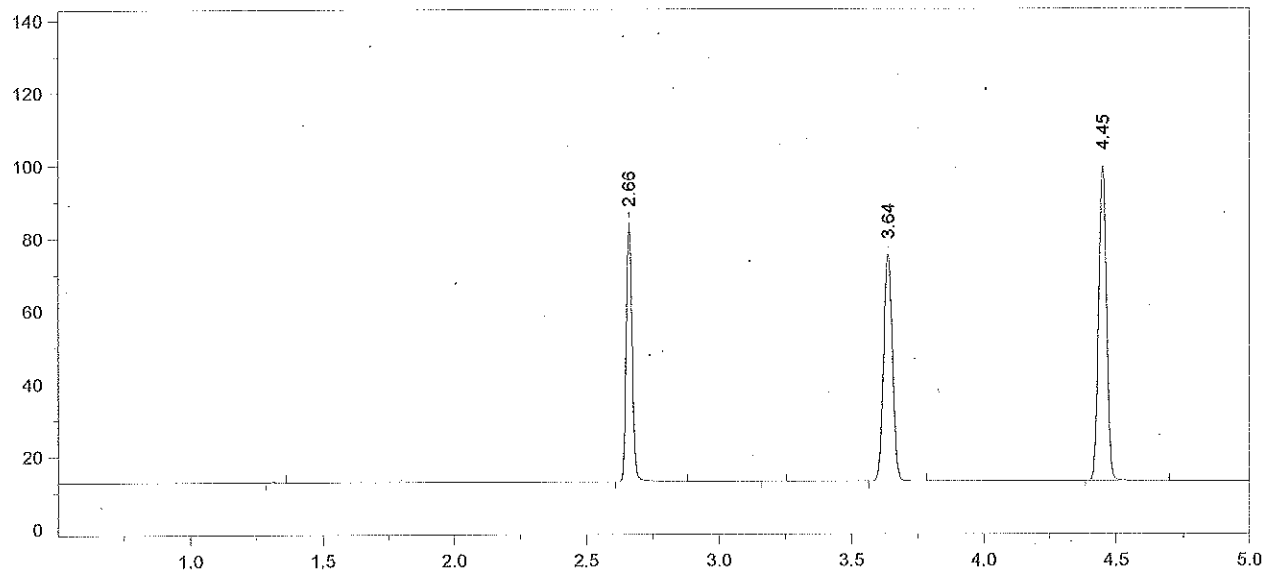
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	76966	0.0785
4	3.64	t-Butanol	146784	1.0181
5	4.45	n-Propanol	187880	1.0000



Format File Name = AlcoholVFL.FMT

Today's Date = 11/5/2012
Today's Time = 2:05:34 PM
Bound File Name = VFL11012012.0021.RAW
Sample Name = AQ QC
Date Taken = 11/1/2012 7:49:02 PM
VFL Headspace Alcohol
Method file = Blood Alc New VFL.MET
Calibration file = VFL 11012012.CAL
Calibration Version = 1

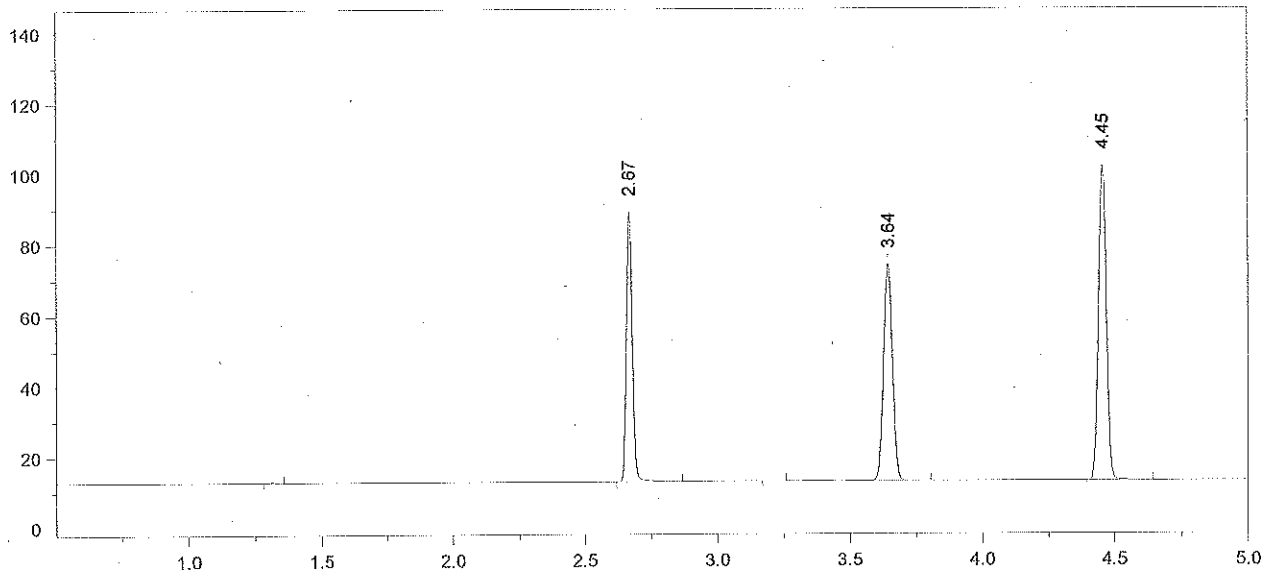
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.67	Ethanol	79796	0.0781
4	3.64	t-Butanol	145734	0.9703
5	4.46	n-Propanol	195723	1.0000



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/5/2012
Today's Time = 2:05:42 PM
Bound File Name = VFL11012012.0022.RAW
Sample Name = TLC SIM 1
Date Taken = 11/1/2012 8:06:54 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL 11012012.CAL
Calibration Version = 1

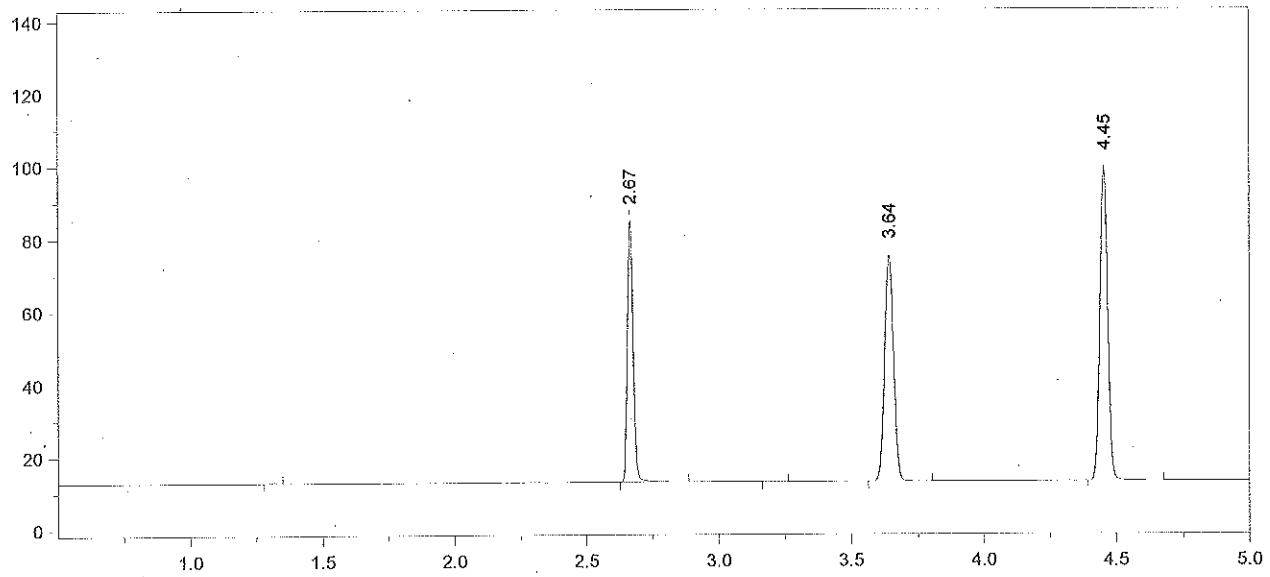
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	109635	0.1142	0.0932
4	3.64	t-Butanol	144190	1.0218	0.8340
5	4.45	n-Propanol	183882	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/5/2012
Today's Time = 2:05:49 PM
Bound File Name = VFL11012012.0023.RAW
Sample Name = TLC SIM 2
Date Taken = 11/1/2012 8:20:44 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL 11012012.CAL
Calibration Version = 1

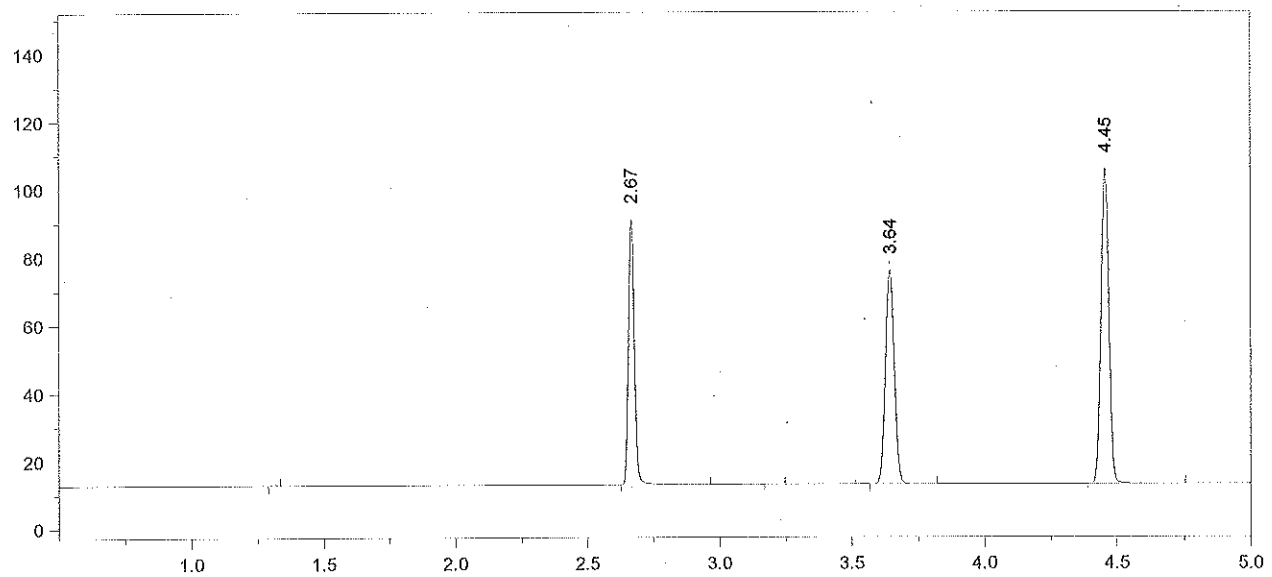
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	116456	0.1176	0.0960
4	3.64	t-Butanol	140987	0.9680	0.7901
5	4.45	n-Propanol	189795	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/5/2012
Today's Time = 2:05:57 PM
Bound File Name = VFL11012012.0024.RAW
Sample Name = TLC SIM 3
Date Taken = 11/1/2012 8:38:18 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL 11012012.CAL
Calibration Version = 1

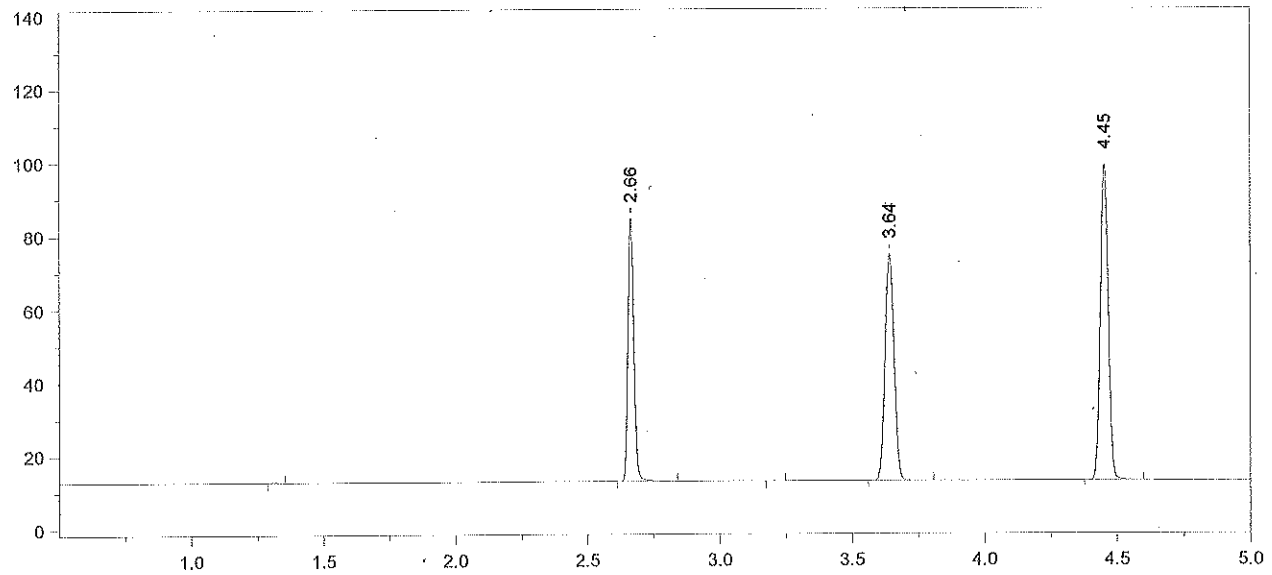
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	110440	0.1155	0.0943
4	3.64	t-Butanol	144073	1.0251	0.8367
5	4.45	n-Propanol	183145	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/5/2012
Today's Time = 2:06:05 PM
Bound File Name = VFL11012012.0025.RAW
Sample Name = TLC SIM 4
Date Taken = 11/1/2012 8:52:01 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL 11012012.CAL
Calibration Version = 1

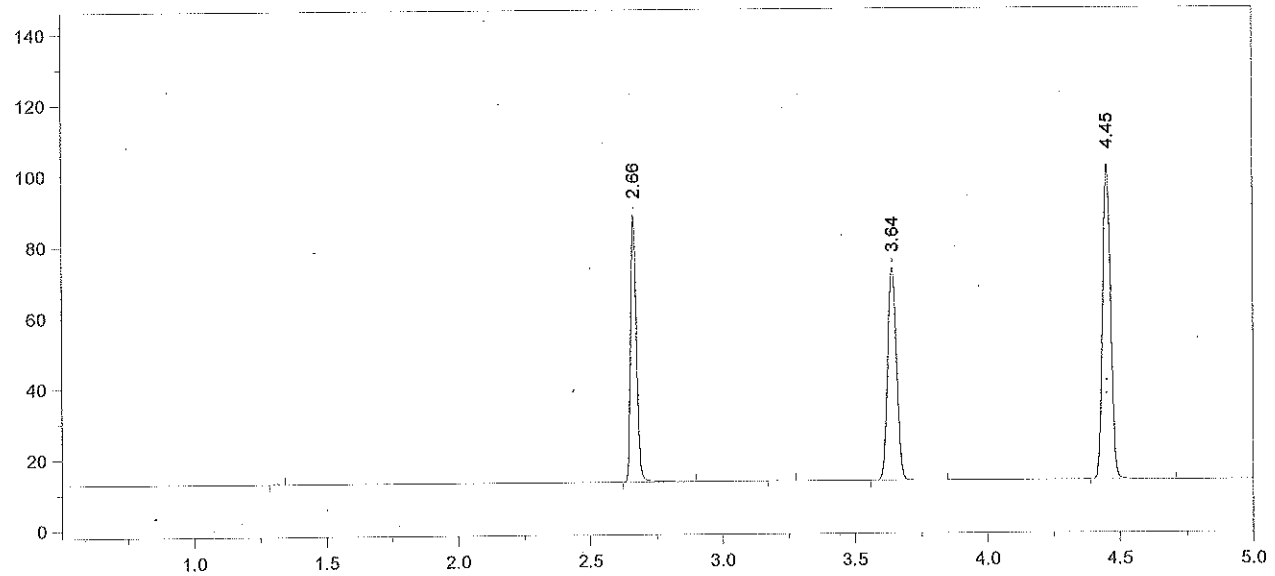
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	120265	0.1175	0.0959
4	3.64	t-Butanol	145018	0.9638	0.7867
5	4.45	n-Propanol	196068	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/5/2012
Today's Time = 2:06:13 PM
Bound File Name = VFL11012012.0026.RAW
Sample Name = TLC SIM 5
Date Taken = 11/1/2012 9:09:45 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL 11012012.CAL
Calibration Version = 1

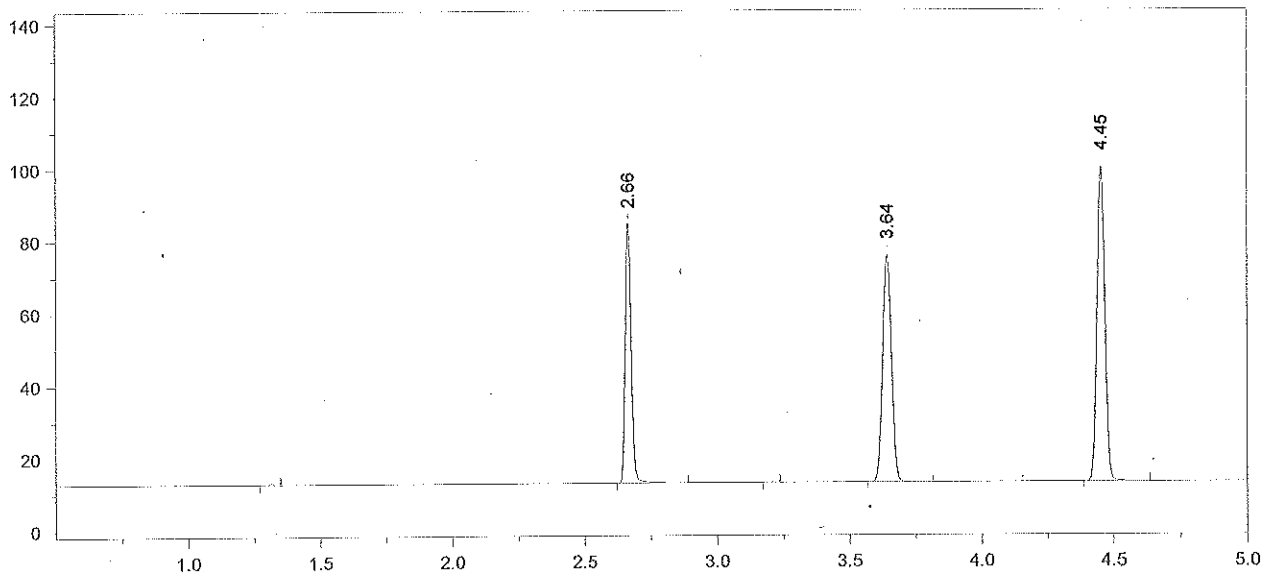
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	109852	0.1158	0.0945
4	3.64	t-Butanol	142529	1.0216	0.8338
5	4.45	n-Propanol	181804	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/5/2012
Today's Time = 2:06:22 PM
Bound File Name = VFL11012012.0027.RAW
Sample Name = TLC SIM 6
Date Taken = 11/1/2012 9:23:28 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL 11012012.CAL
Calibration Version = 1

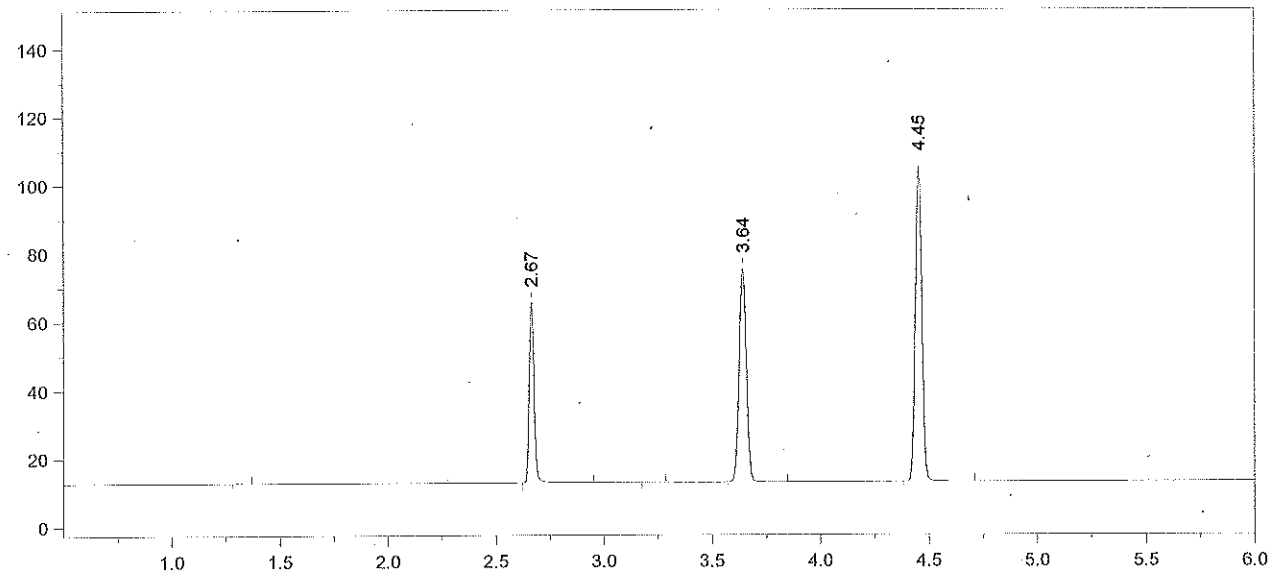
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	116027	0.1178	0.0961
4	3.64	t-Butanol	139191	0.9606	0.7841
5	4.45	n-Propanol	188809	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/5/2012
Today's Time = 2:06:30 PM
Bound File Name = VFL11012012.0028.RAW
Sample Name = TLC SIM 7
Date Taken = 11/1/2012 9:41:09 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL 11012012.CAL
Calibration Version = 1

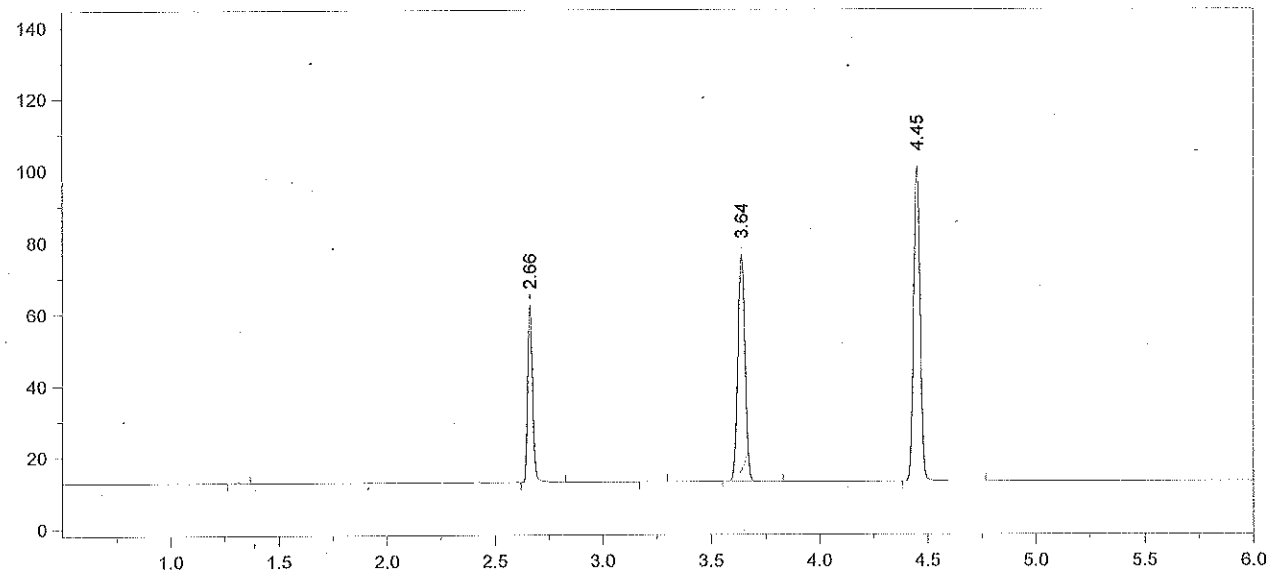
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	110786	0.1149	0.0938
4	3.64	t-Butanol	144828	1.0219	0.8341
5	4.45	n-Propanol	184681	1.0000	0.8162



Format File Name = AlcoholVFL.FMT

Today's Date = 11/5/2012
Today's Time = 2:06:38 PM
Bound File Name = VFL11012012.0029.RAW
Sample Name = CCS
Date Taken = 11/1/2012 9:55:02 PM
VFL Headspace Alcohol
Method file = Blood Alc New VFL.MET
Calibration file = VFL 11012012.CAL
Calibration Version = 1

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.67	Ethanol	82324	0.0808
4	3.64	t-Butanol	144505	0.9647
5	4.45	n-Propanol	195200	1.0000

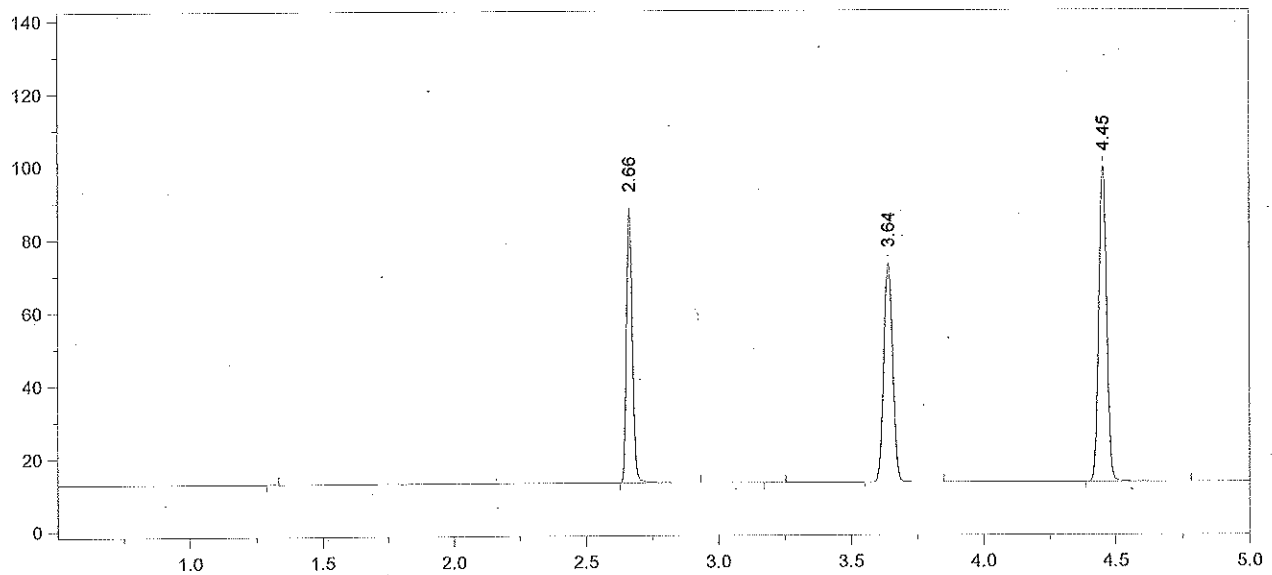


Format File Name = AlcoholVFL.FMT

Today's Date = 11/5/2012
Today's Time = 2:06:47 PM
Bound File Name = VFL11012012.0030.RAW
Sample Name = CCS
Date Taken = 11/1/2012 10:12:36 PM
VFL Headspace Alcohol
Method file = Blood Alc New VFL.MET
Calibration file = VFL 11012012.CAL
Calibration Version = 1

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	76262	0.0784
4	3.64	t-Butanol	146236	1.0229
5	4.45	n-Propanol	186298	1.0000

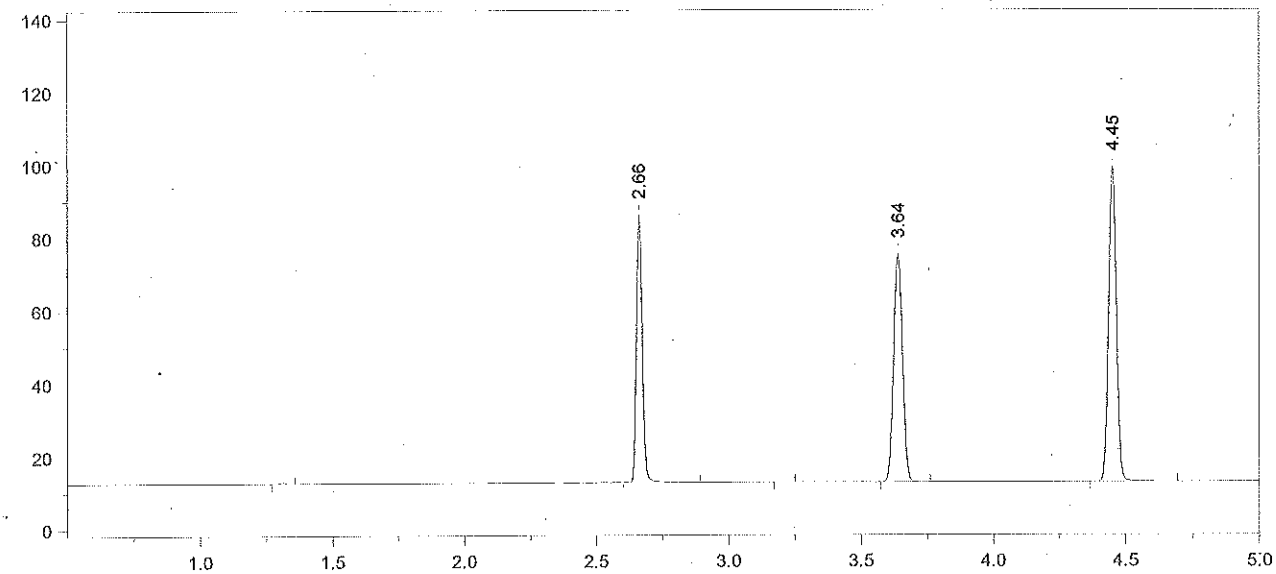
CCS AVG (VIAL # 29 & #30) = 0.079



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/5/2012
Today's Time = 2:06:54 PM
Bound File Name = VFL11012012.0031.RAW
Sample Name = ALB SIM 1
Date Taken = 11/1/2012 10:26:22 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL 11012012.CAL
Calibration Version = 1

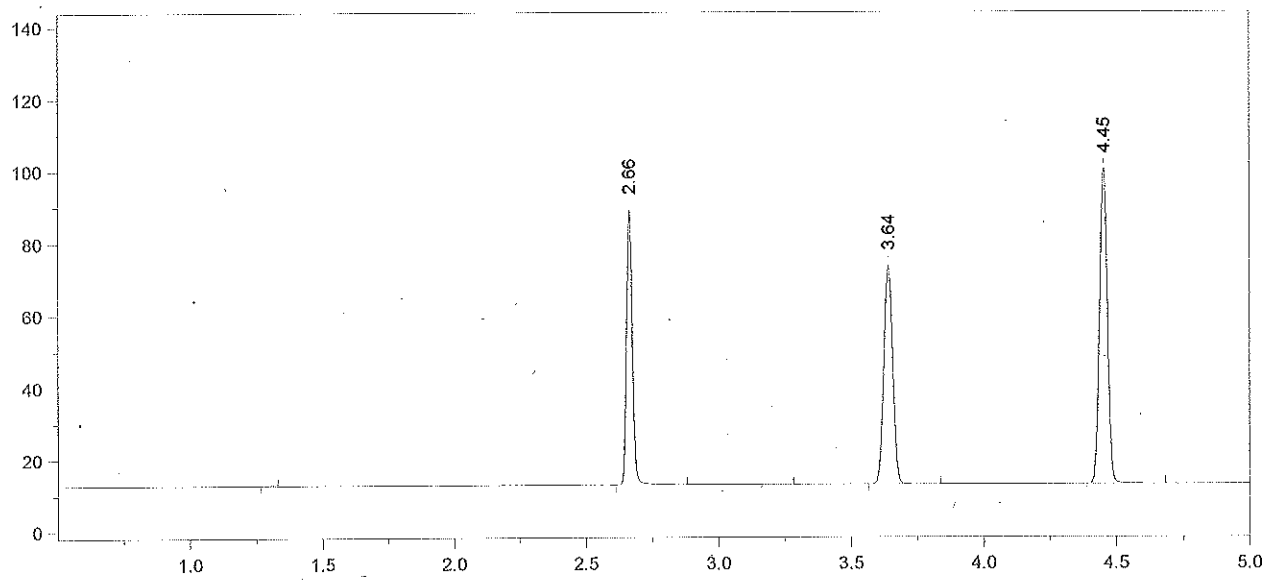
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	115699	0.1202	0.0981
4	3.64	t-Butanol	138965	0.9816	0.8012
5	4.45	n-Propanol	184474	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/5/2012
Today's Time = 2:07:02 PM
Bound File Name = VFL11012012.0032.RAW
Sample Name = ALB SIM 2
Date Taken = 11/1/2012 10:44:05 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL 11012012.CAL
Calibration Version = 1

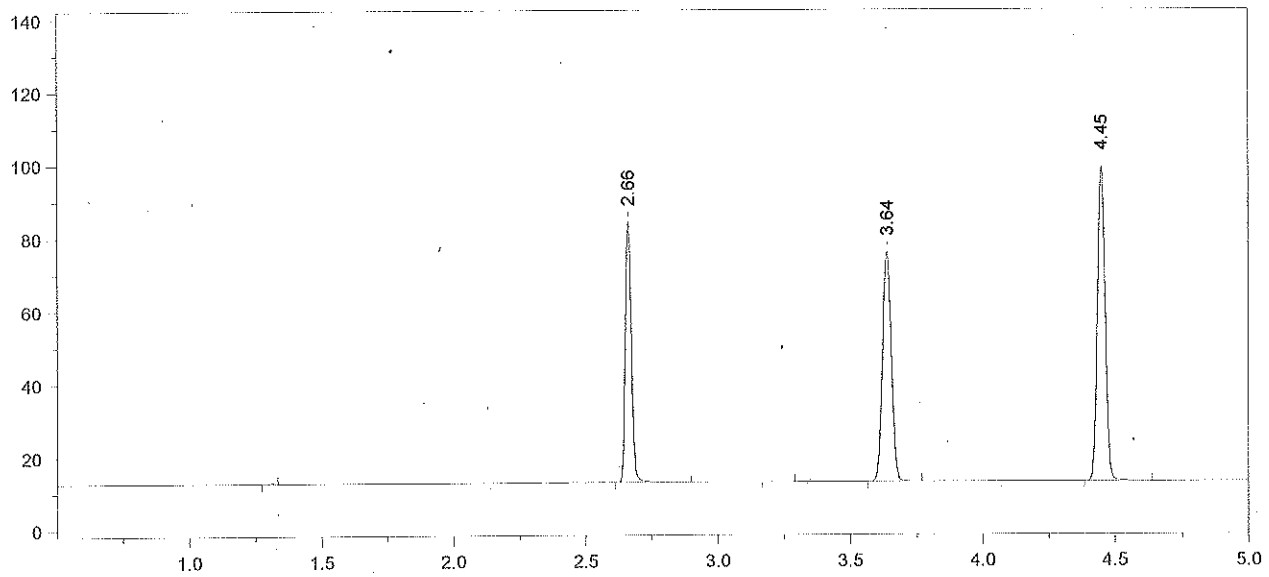
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	112491	0.1181	0.0964
4	3.64	t-Butanol	144116	1.0290	0.8399
5	4.45	n-Propanol	182504	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/5/2012
Today's Time = 2:07:10 PM
Bound File Name = VFL11012012.0033.RAW
Sample Name = ALB SIM 3
Date Taken = 11/1/2012 10:57:46 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL 11012012.CAL
Calibration Version = 1

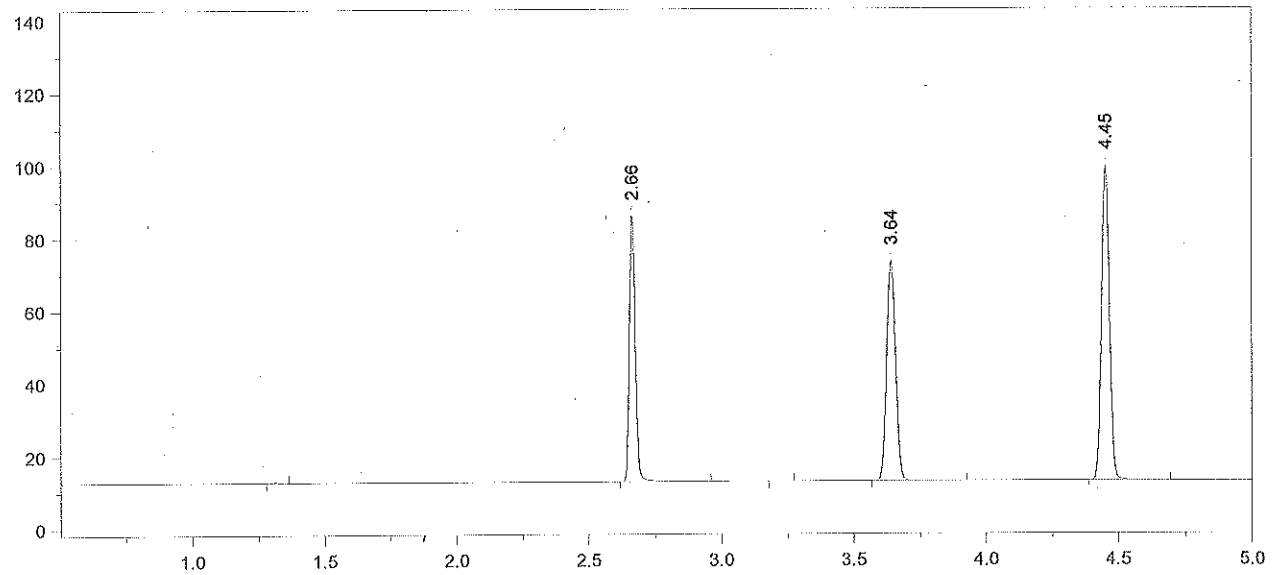
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	116359	0.1203	0.0982
4	3.64	t-Butanol	139812	0.9829	0.8023
5	4.45	n-Propanol	185351	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/5/2012
Today's Time = 2:07:18 PM
Bound File Name = VFL11012012.0034.RAW
Sample Name = ALB SIM 4
Date Taken = 11/1/2012 11:15:32 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL 11012012.CAL
Calibration Version = 1

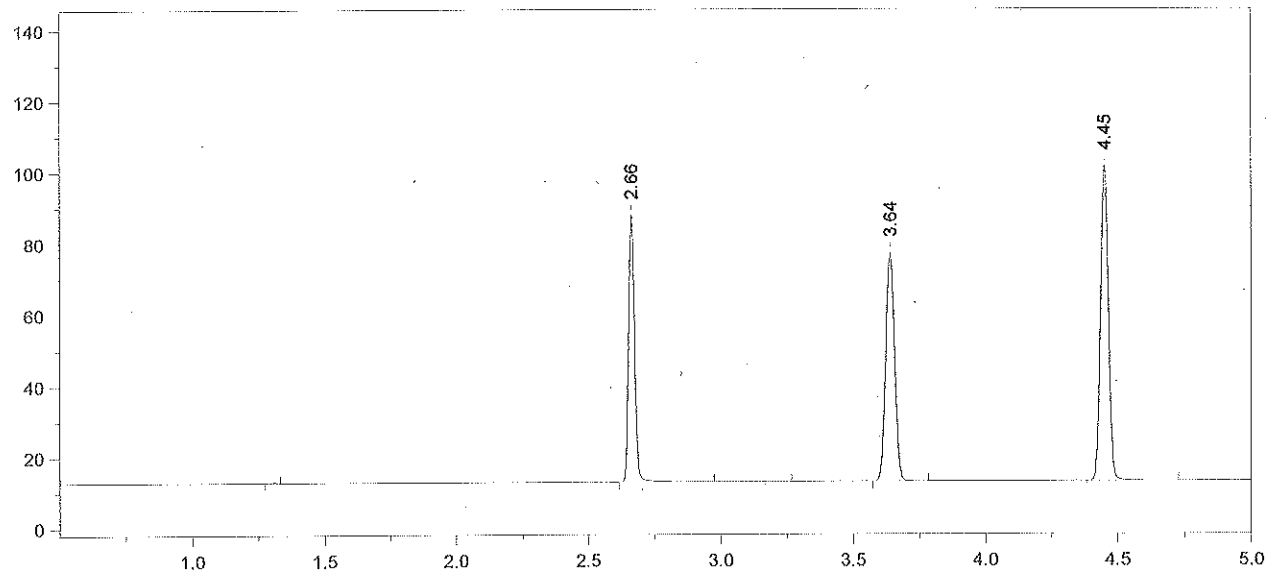
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	111112	0.1163	0.0949
4	3.64	t-Butanol	145401	1.0351	0.8448
5	4.45	n-Propanol	183054	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/5/2012
Today's Time = 2:07:25 PM
Bound File Name = VFL11012012.0035.RAW
Sample Name = ALB SIM 5
Date Taken = 11/1/2012 11:29:10 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL 11012012.CAL
Calibration Version = 1

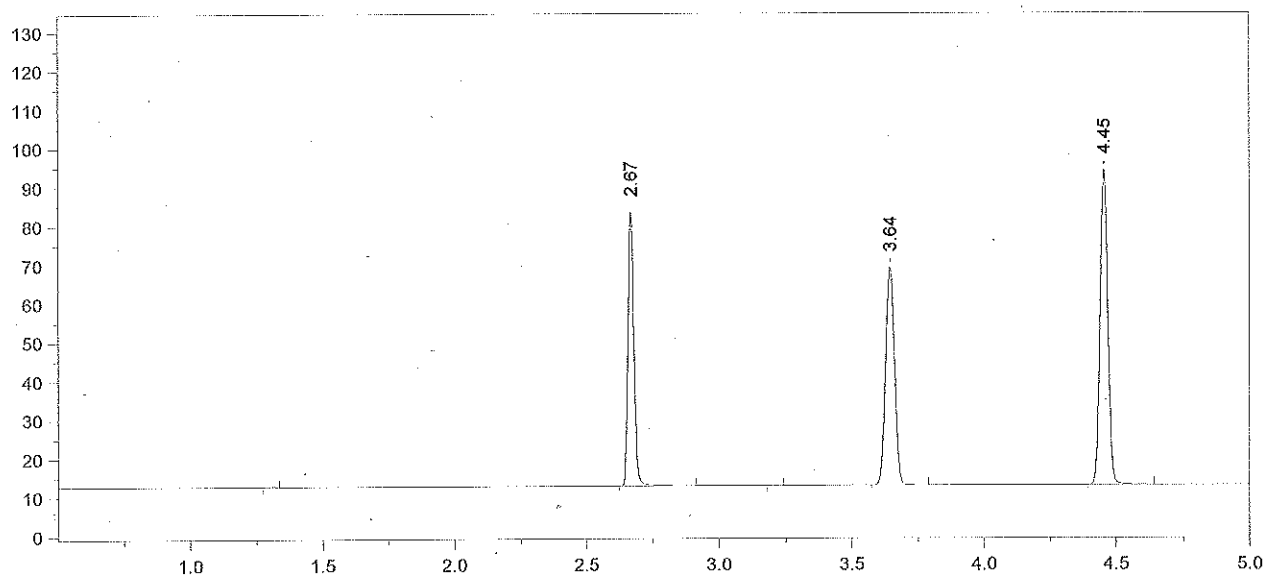
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	113316	0.1184	0.0966
4	3.64	t-Butanol	139826	0.9932	0.8106
5	4.45	n-Propanol	183458	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/5/2012
Today's Time = 2:07:32 PM
Bound File Name = VFL11012012.0036.RAW
Sample Name = ALB SIM 6
Date Taken = 11/1/2012 11:45:16 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL 11012012.CAL
Calibration Version = 1

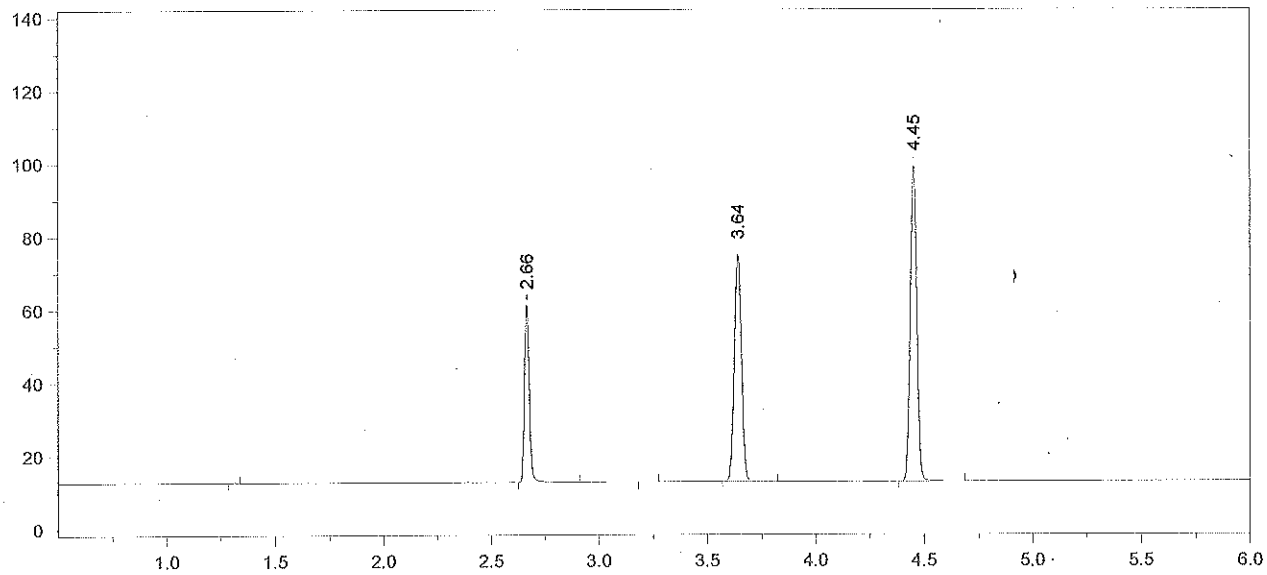
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	115115	0.1181	0.0964
4	3.64	t-Butanol	147631	1.0300	0.8407
5	4.45	n-Propanol	186775	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/5/2012
Today's Time = 2:07:40 PM
Bound File Name = VFL11012012.0037.RAW
Sample Name = ALB SIM 7
Date Taken = 11/2/2012 12:00:52 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL 11012012.CAL
Calibration Version = 1

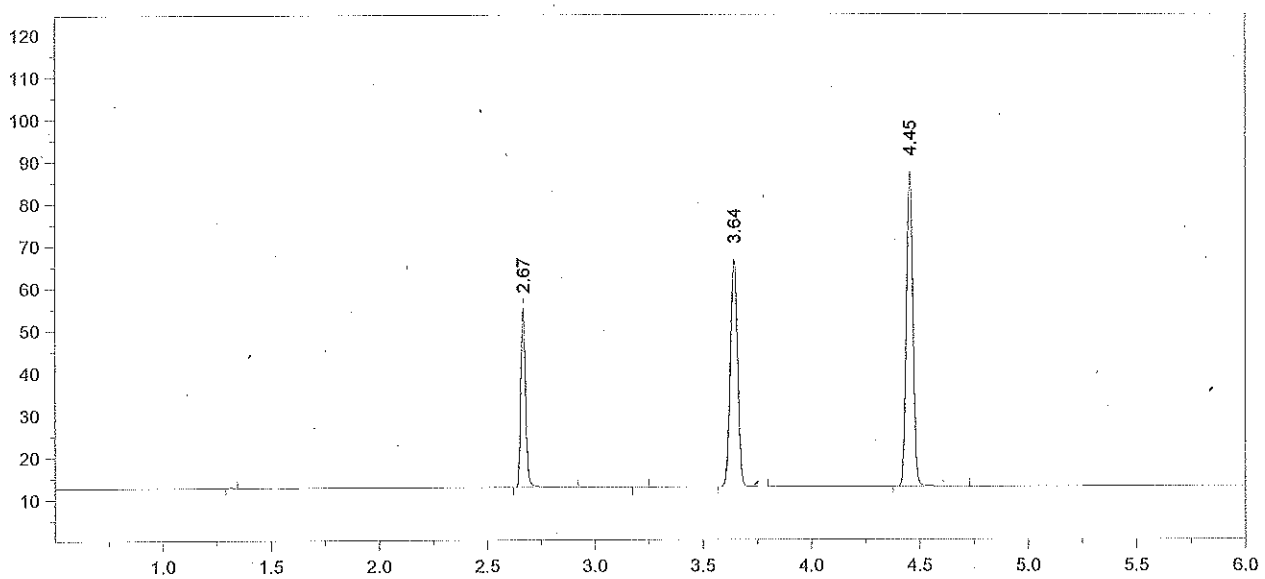
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	108527	0.1211	0.0988
4	3.64	t-Butanol	129708	0.9843	0.8034
5	4.45	n-Propanol	171721	1.0000	0.8162



Format File Name = AlcoholVFL.FMT

Today's Date = 11/5/2012
Today's Time = 2:07:48 PM
Bound File Name = VFL11012012.0038.RAW
Sample Name = CCS
Date Taken = 11/2/2012 12:16:50 AM
VFL Headspace Alcohol
Method file = Blood Alc New VFL.MET
Calibration file = VFL 11012012.CAL
Calibration Version = 1

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	75512	0.0790
4	3.64	t-Butanol	143894	1.0242
5	4.45	n-Propanol	183076	1.0000



Format File Name = AlcoholVFL.FMT

Today's Date = 11/5/2012
Today's Time = 2:07:56 PM
Bound File Name = VFL11012012.0039.RAW
Sample Name = CCS
Date Taken = 11/2/2012 12:31:24 AM
VFL Headspace Alcohol
Method file = Blood Alc New VFL.MET
Calibration file = VFL 11012012.CAL
Calibration Version = 1

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.67	Ethanol	65809	0.0797
4	3.64	t-Butanol	123859	1.0205
5	4.45	n-Propanol	158152	1.0000

CCS AVG (VIAL # 38 & # 39) = 0.079

ACCURACY & PRECISION REPORT

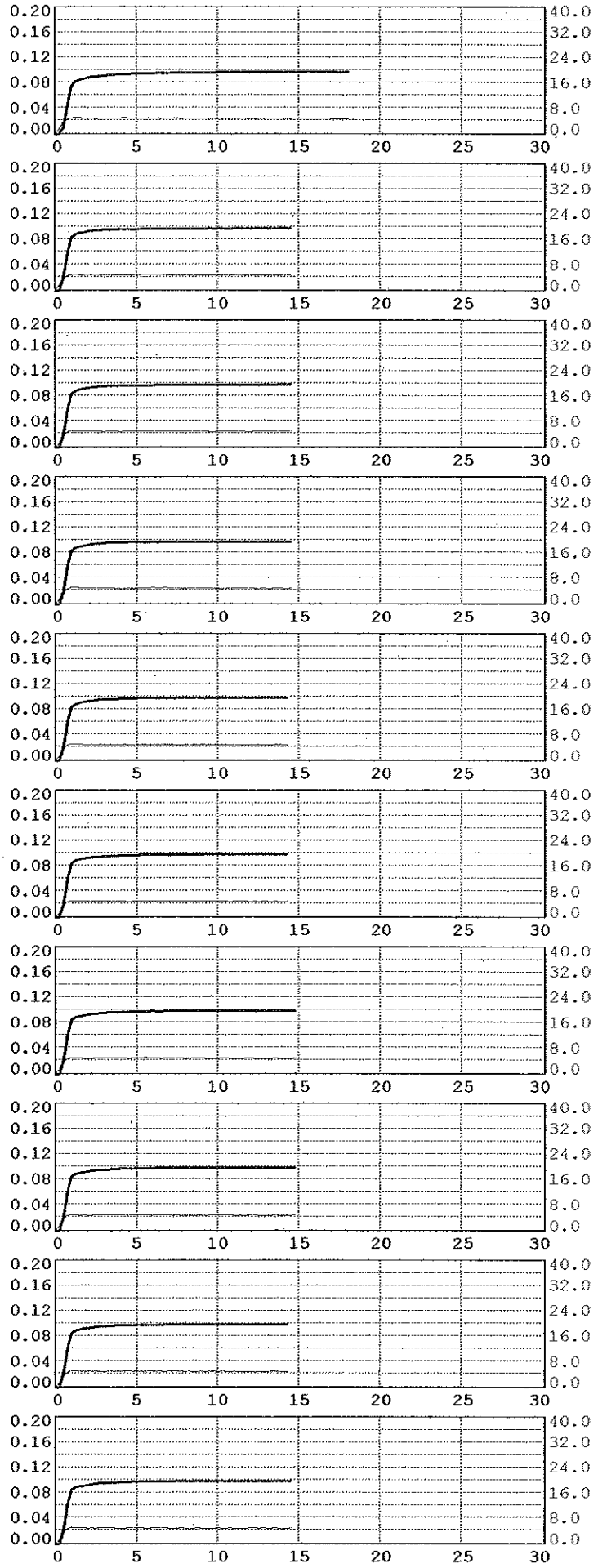
STATE OF VERMONT

DataMater DMT: 100147
Location: VFL

Date: 11/06/2012
Time: 12:41:59

SUPERVISOR NAME:
ROBERT DRISCOLL

SOLUTION LOT #: XXXX
SOLUTION CONCENTRATION: 0.100

BLANK TEST	0.000	12:42
CALIBRATION CHECK	PASSED	12:42
SIMULATOR VAPOR 33.8°C	0.098	12:43
SIMULATOR VAPOR 33.9°C	0.099	12:44
SIMULATOR VAPOR 33.9°C	0.099	12:45
SIMULATOR VAPOR 33.9°C	0.099	12:46
SIMULATOR VAPOR 33.9°C	0.099	12:47
SIMULATOR VAPOR 33.8°C	0.100	12:48
SIMULATOR VAPOR 33.9°C	0.100	12:49
SIMULATOR VAPOR 33.9°C	0.100	12:51
SIMULATOR VAPOR 33.8°C	0.100	12:52
SIMULATOR VAPOR 33.9°C	0.100	12:53
BLANK TEST	0.000	12:54

Average = 0.099
Std Dev = 0.000