0.1 Ext Std Solution 20L
Lot # 12-84-100
Prepared 09/24/2012 by KAW
Exp 09/24/2013

KAW CAL SimCal 09252012
KAW/TLC Vials
Analyzed on 9/25/2012

0.0999 kaw
0.1024
0.1003
0.1018
0.1005
0.1028
0.1000
0.1037 tlc
0.1010
0.1034
0.1007
0.1026
0.1011
0.1023

Ave. = 0.1016
Std Dev. = 0.0013
Range = 0.0999 - 0.1037

KAW CAL SimCal 09262012
KAW/TLC Vials
Analyzed on 9/26/2012

0.0998 kaw
0.1015
0.0989
0.1014
0.0998
0.1007
0.0994
0.1048 tlc
0.1028
0.1038
0.1016
0.1036
0.1009
0.1034

Ave. = 0.1016
Std Dev. = 0.0018
Range = 0.0989 - 0.1048

Total Values from Both Runs

Average	Mean
0.0999	0.0989
0.1024	0.0994
0.1003	0.0998
0.1018	
0.1005	0.0999
0.1028	0.1000
0.1000	0.1003
0.1037	0.1005
0.1010	0.1007
0.1034	
0.1007	0.1009
0.1026	0.1010
0.1011	0.1011
0.1023	0.1014
0.0998	0.1015
0.1015	0.1016
0.0989	0.1018
0.1014	0.1023
0.0998	0.1024
0.1007	0.1026
0.0994	0.1028
0.1048	
0.1028	0.1034
0.1038	
0.1016	0.1036
0.1036	0.1037
0.1009	0.1038
0.1034	0.1048

Ave. =	0.1016
Std Dev. =	0.0015
Range =	0.0989 - 0.1048
Mean =	0.1016
Mean Std Dev. =	0.0016
RPD (Mean to Ave.)=	0.10%

10/1/2012

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 9/24/2012, an ethanol solution was prepared by Kendra Wilbur for use as a DataMaster External Standard solution. The solution was prepared per standard laboratory practice and assigned the lot number 12-84-100 and an expiration date of 9/24/2013.

On 9/25/2012 and 9/26/2012, the solution was analyzed against calibration SimCal 09252012 and SimCal 09262012. 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 Monday, October 01, 2012.

Trisha Conti

Headspace Alcohol Analysis Standards Coversheet

Analyst: KRW Date: 9/26/12

Calibration Standards:

Lot ID: ES-07052012 Preparation Date: 07/05/2012 Expiration Date: 10/05/2012

	Standard A	Standard B	Standard C	Standard D	Standard E	Calibration Check (c)
% Ethanol (w/v)	0.005	0.021	0.084	0.200	0.404	0.084
Acceptance Range (± 10%)	0.006	0.023	0.093	0.219	0.444	0.093
	0.004	0.019	0.076	0.180	0.363	0.076

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	2.03		
		Ethanol	2.67		
		Acetone	3.07		
		Isopropanol	3.20		
		T- butanol	3.64		
		n-propanol	4.45		
3	Standard A		0.005	(Y) N	
4	Standard B		0.021	(Y) N	
5	Standard C		0.088	(Y) N	
6	Standard D		0.200	(Y) N	
7	Standard E		0.420	(Y) N	
8	Aqueous QC		0.079	(Y) N	AQ QC AVG = 0.079 ✓
9	Aqueous QC		0.079	(Y) N	

TLC A 10/1/2012

File Name: C:\Methods\SimCal 09252012.cal
Version: 1

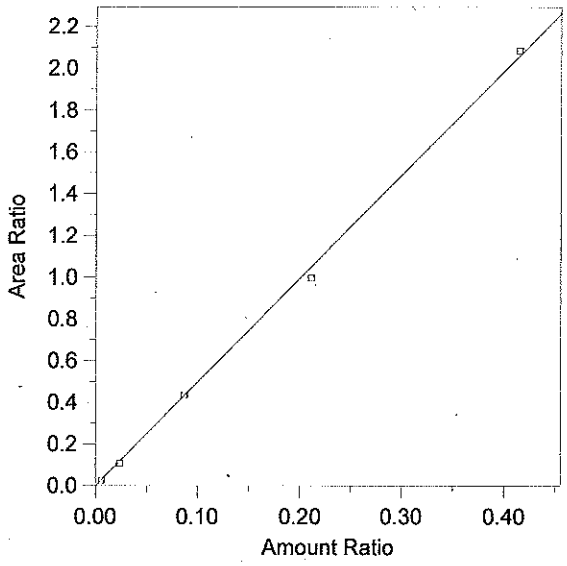
Creator:
Description:
Reason for change:

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: 2.666 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

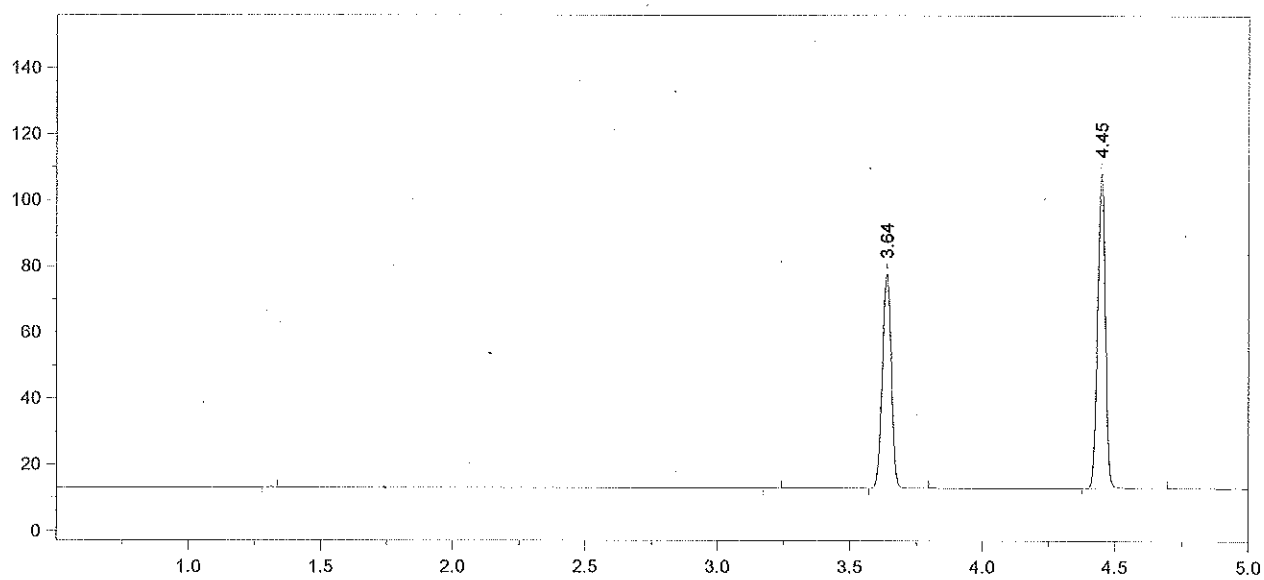
$Y = 4.969427 X + 0$

Linear fit with equal weighting, forced to origin
Coefficient of determination: 0.998772
Average error: 5.199%
Average CF: 4.755639
RSD: 5.513%

Level	Amount	Response	Cal Factor	Error, %	Amount Ratio	Response Ratio	Source	Date and time
1	(0.081)	(85146)	--	--	0.081	85146	Manual	5/11/2012 8:03:03 AM
2	0.0059	5204.355	882094.1	-9.133	0.0059	2.664173E-02	C:\Alcohol Data\SIM09252012\SIM09252012.0003.BND	9/26/2012 8:09:10 AM
3	0.0235	20096.09	855152.8	-9.659	0.0235	0.1055014	C:\Alcohol Data\SIM09252012\SIM09252012.0004.BND	9/26/2012 8:09:17 AM
4	0.0869	85113.92	979446.7	0.970	0.0869	0.4360302	C:\Alcohol Data\SIM09252012\SIM09252012.0005.BND	9/26/2012 8:09:27 AM
5	0.2107	188462.1	894457	-4.960	0.2107	0.9951279	C:\Alcohol Data\SIM09252012\SIM09252012.0006.BND	9/26/2012 8:09:35 AM
6	0.4144	386449.9	932552.8	1.272	0.4144	2.085534	C:\Alcohol Data\SIM09252012\SIM09252012.0007.BND	9/26/2012 8:09:43 AM

File Name = C:\Alcohol Data\SIM09252012\SIM09252012.SEQ
Version = 2
File Date = 9/26/2012 8:12:02 AM

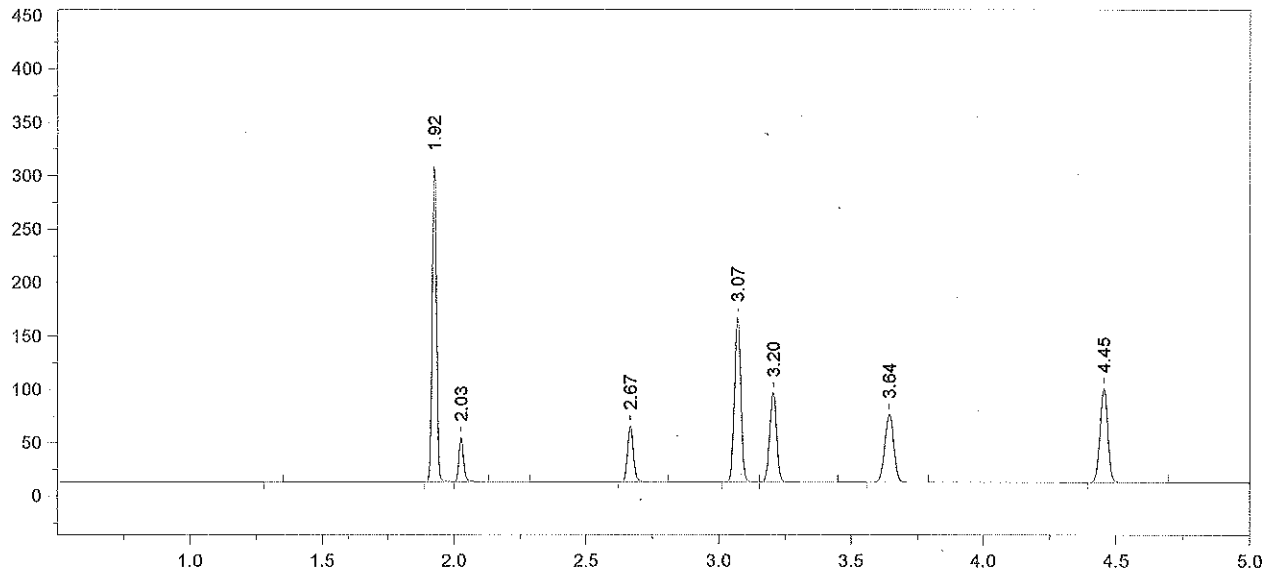
Entry #	Raw File Name	Method File Name	Sample Name	Sample Wt.	Int. Std. Amount
1	SIM09252012.0001.raw	simsoln.met	Blank	1.00	1.00
2	SIM09252012.0002.raw	simsoln.met	TMX	1.00	1.00
3	SIM09252012.0003.raw	simsoln.met	STD A	1.00	1.00
4	SIM09252012.0004.raw	simsoln.met	STD B	1.00	1.00
5	SIM09252012.0005.raw	simsoln.met	STD C	1.00	1.00
6	SIM09252012.0006.raw	simsoln.met	STD D	1.00	1.00
7	SIM09252012.0007.raw	simsoln.met	STD E	1.00	1.00
8	SIM09252012.0008.raw	simsoln.met	AQ QC	1.00	1.00
9	SIM09252012.0009.raw	simsoln.met	AQ QC	1.00	1.00
10	SIM09252012.0010.raw	simsoln.met	CCS	1.00	1.00
11	SIM09252012.0011.raw	simsoln.met	CCS	1.00	1.00
12	SIM09252012.0012.raw	simsoln.met	0.10 Ext Std KAW	1.00	1.00
13	SIM09252012.0013.raw	simsoln.met	0.10 Ext Std KAW	1.00	1.00
14	SIM09252012.0014.raw	simsoln.met	0.10 Ext Std KAW	1.00	1.00
15	SIM09252012.0015.raw	simsoln.met	0.10 Ext Std KAW	1.00	1.00
16	SIM09252012.0016.raw	simsoln.met	0.10 Ext Std KAW	1.00	1.00
17	SIM09252012.0017.raw	simsoln.met	0.10 Ext Std KAW	1.00	1.00
18	SIM09252012.0018.raw	simsoln.met	0.10 Ext Std KAW	1.00	1.00
19	SIM09252012.0019.raw	simsoln.met	CCS	1.00	1.00
20	SIM09252012.0020.raw	simsoln.met	CCS	1.00	1.00
21	SIM09252012.0021.raw	simsoln.met	0.10 Ext Std TLC	1.00	1.00
22	SIM09252012.0022.raw	simsoln.met	0.10 Ext Std TLC	1.00	1.00
23	SIM09252012.0023.raw	simsoln.met	0.10 Ext Std TLC	1.00	1.00
24	SIM09252012.0024.raw	simsoln.met	0.10 Ext Std TLC	1.00	1.00
25	SIM09252012.0025.raw	simsoln.met	0.10 Ext Std TLC	1.00	1.00
26	SIM09252012.0026.raw	simsoln.met	0.10 Ext Std TLC	1.00	1.00
27	SIM09252012.0027.raw	simsoln.met	0.10 Ext Std TLC	1.00	1.00
28	SIM09252012.0028.raw	simsoln.met	CCS	1.00	1.00
29	SIM09252012.0029.raw	simsoln.met	CCS	1.00	1.00



Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/26/2012 Today's Time = 8:14:42 AM
Bound File Name = SIM09252012.0001.RAW
Sample Name = Blank
Date Taken = 9/25/2012 4:22:58 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 09252012.cal Calibration Version = 1

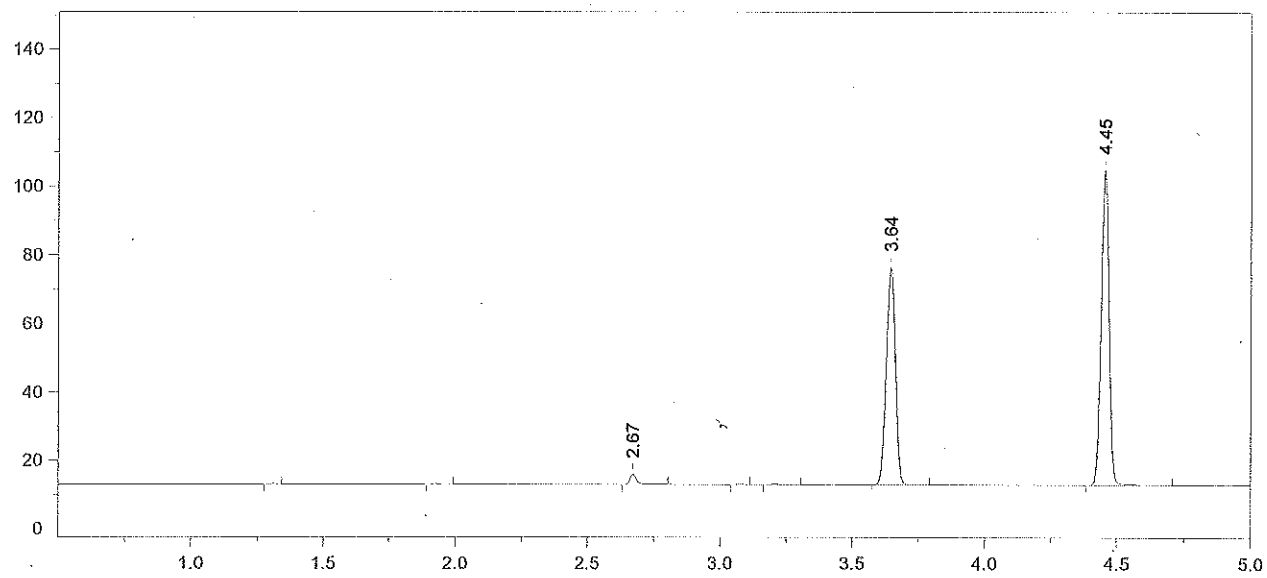
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	3.64	t-Butanol	150405	0.9676	0.7898
4	4.45	n-Propanol	201883	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/26/2012 Today's Time = 8:14:55 AM
Bound File Name = SIM09252012.0002.RAW
Sample Name = TMX
Date Taken = 9/25/2012 4:40:09 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 09252012.cal Calibration Version = 1

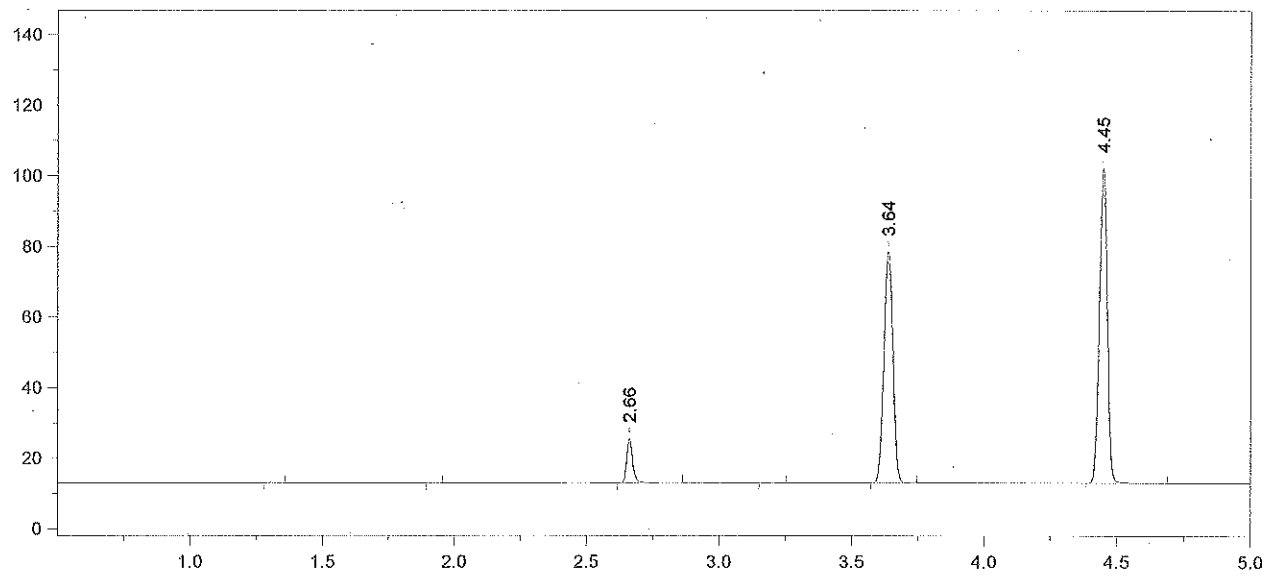
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	1.92	Acetaldehyde	340456	0.0900	0.0735
3	2.03	Methanol	51394	0.0920	0.0751
4	2.67	Ethanol	80858	0.0871	0.0711
5	3.07	Acetone	261202	0.0920	0.0751
6	3.20	Isopropanol	156767	0.1230	0.1004
7	3.64	t-Butanol	146805	1.0205	0.8329
8	4.45	n-Propanol	186840	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/26/2012 Today's Time = 8:15:04 AM
Bound File Name = SIM09252012.0003.RAW
Sample Name = STD A
Date Taken = 9/25/2012 4:53:50 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 09252012.cal Calibration Version = 1

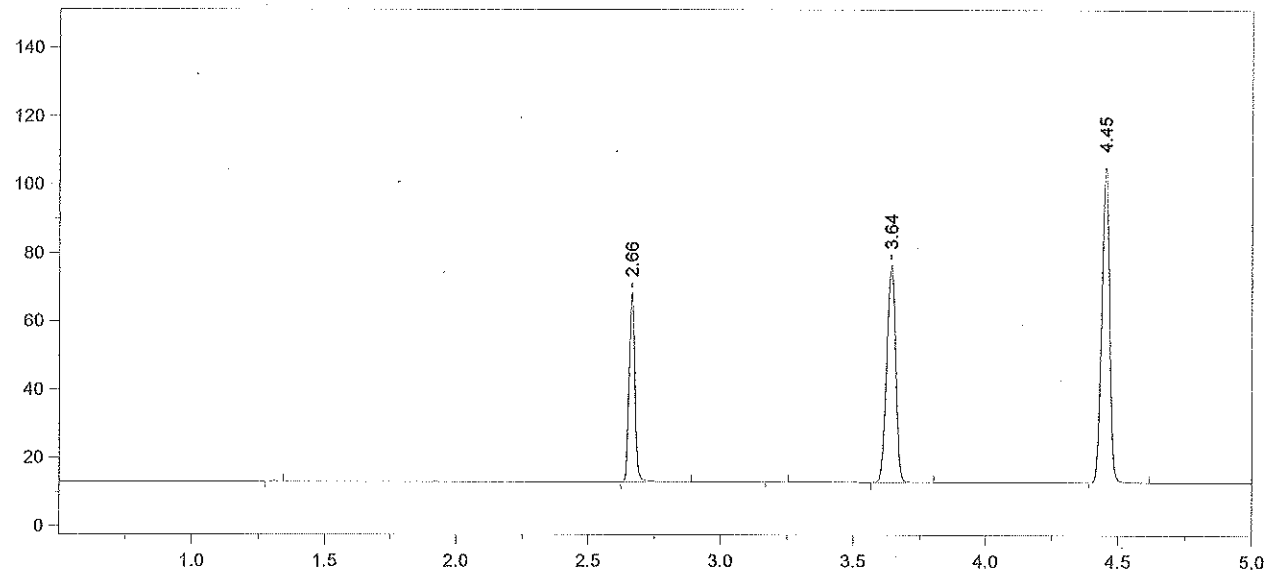
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.67	Ethanol	05204	0.0054	0.0044
6	3.64	t-Butanol	146612	0.9748	0.7956
7	4.45	n-Propanol	195346	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/26/2012 Today's Time = 8:15:14 AM
Bound File Name = SIM09252012.0004.RAW
Sample Name = STD B
Date Taken = 9/25/2012 5:11:34 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 09252012.cal Calibration Version = 1

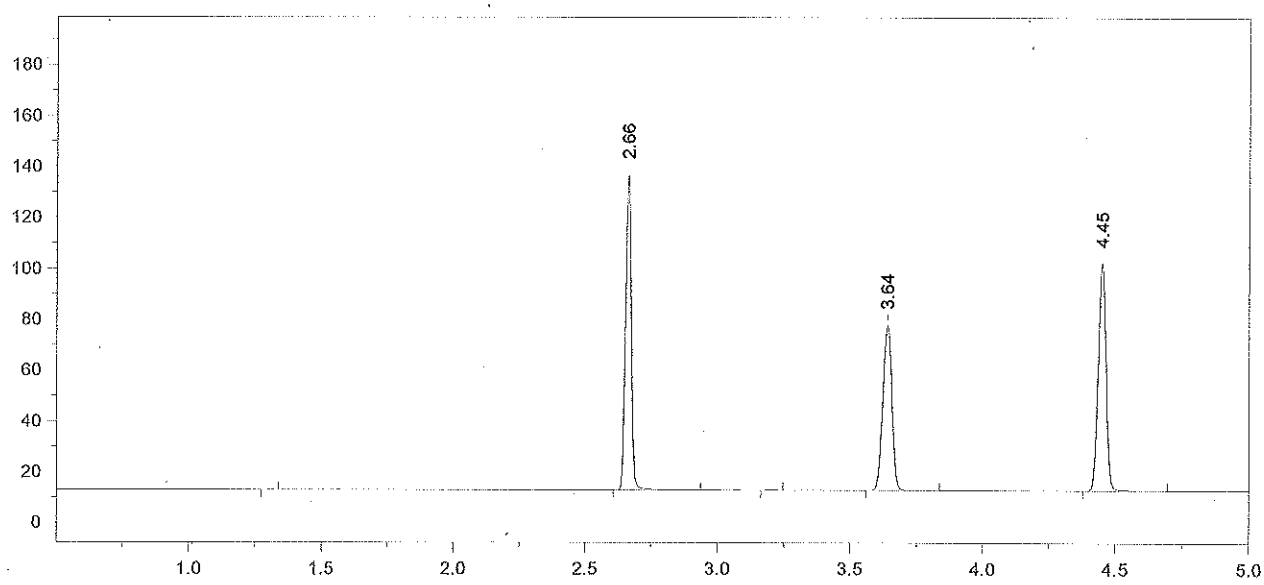
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.66	Ethanol	20096	0.0212	0.0173
5	3.64	t-Butanol	151386	1.0322	0.8425
6	4.45	n-Propanol	190482	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/26/2012 Today's Time = 8:15:23 AM
Bound File Name = SIM09252012.0005.RAW
Sample Name = STD C
Date Taken = 9/25/2012 5:24:49 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 09252012.cal Calibration Version = 1

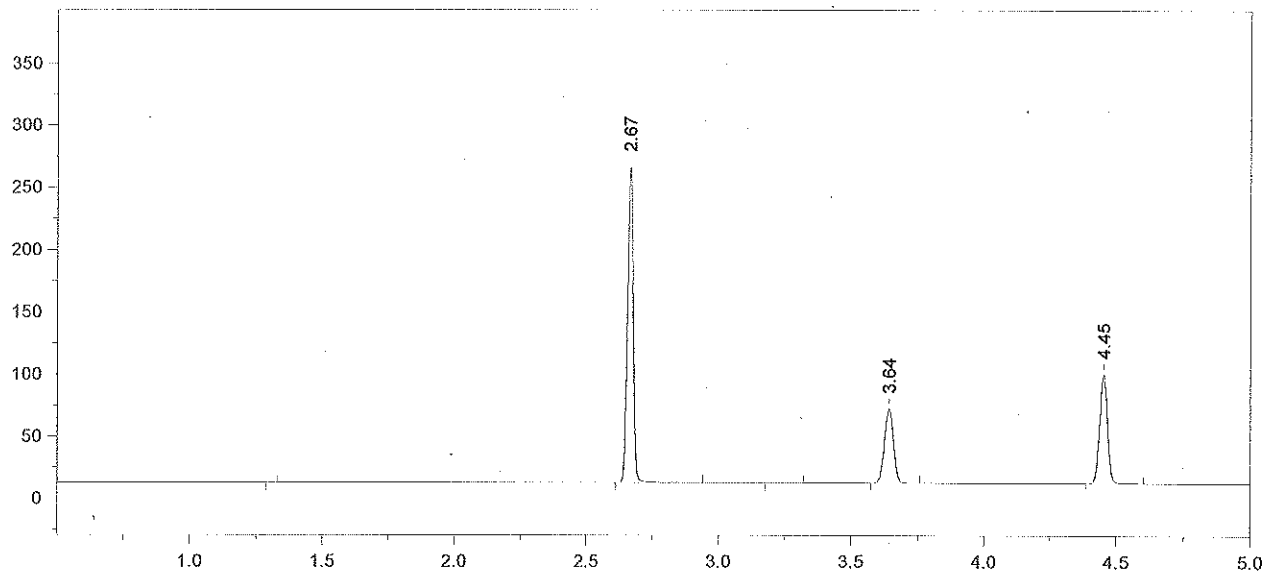
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	85114	0.0877	0.0716
4	3.64	t-Butanol	146963	0.9779	0.7981
5	4.45	n-Propanol	195202	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/26/2012 Today's Time = 8:15:32 AM
Bound File Name = SIM09252012.0006.RAW
Sample Name = STD D
Date Taken = 9/25/2012 5:42:59 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 09252012.cal Calibration Version = 1

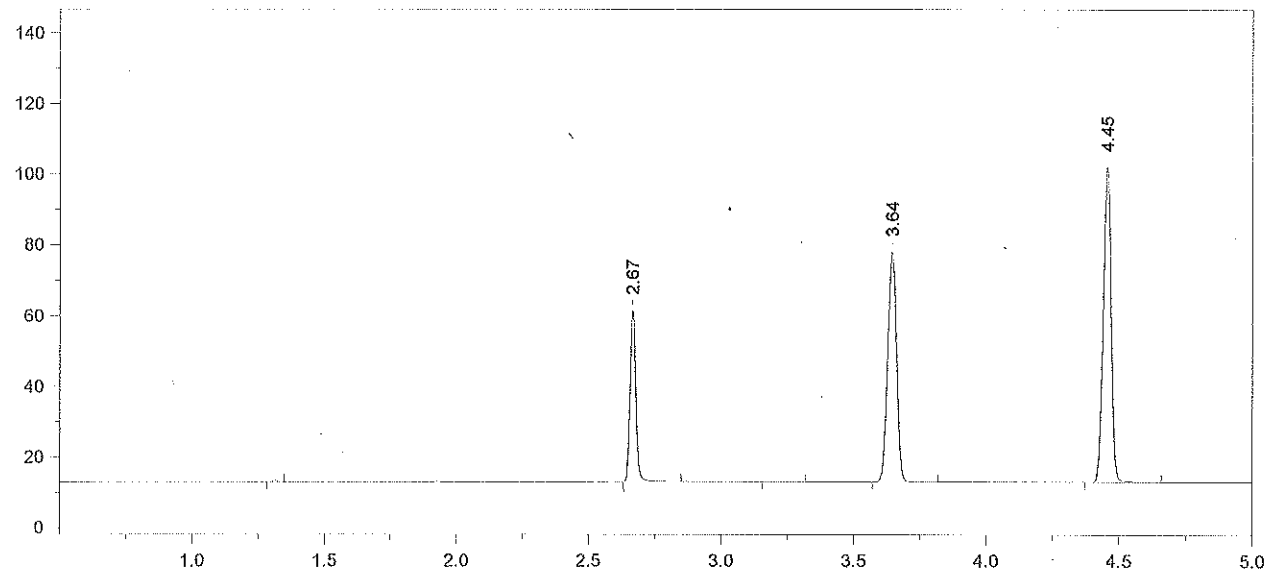
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	188462	0.2003	0.1634
4	3.64	t-Butanol	149964	1.0285	0.8394
5	4.45	n-Propanol	189385	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/26/2012 Today's Time = 8:15:41 AM
Bound File Name = SIM09252012.0007.RAW
Sample Name = STD E
Date Taken = 9/25/2012 5:56:49 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 09252012.cal Calibration Version = 1

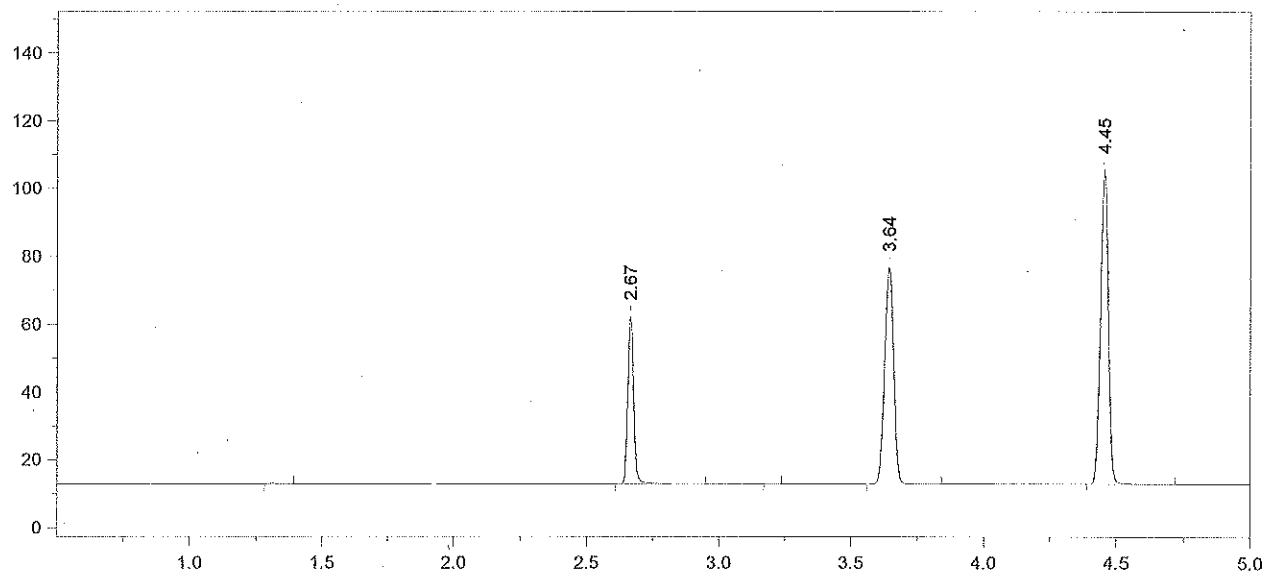
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	386450	0.4197	0.3425
4	3.64	t-Butanol	137836	0.9661	0.7886
5	4.45	n-Propanol	185300	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/26/2012 Today's Time = 8:15:50 AM
Bound File Name = SIM09252012.0008.RAW
Sample Name = AQ QC
Date Taken = 9/25/2012 6:14:22 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 09252012.cal Calibration Version = 1

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	74253	✓0.0790	0.0645
4	3.64	t-Butanol	149885	1.0294	0.8402
5	4.45	n-Propanol	189107	1.0000	0.8162

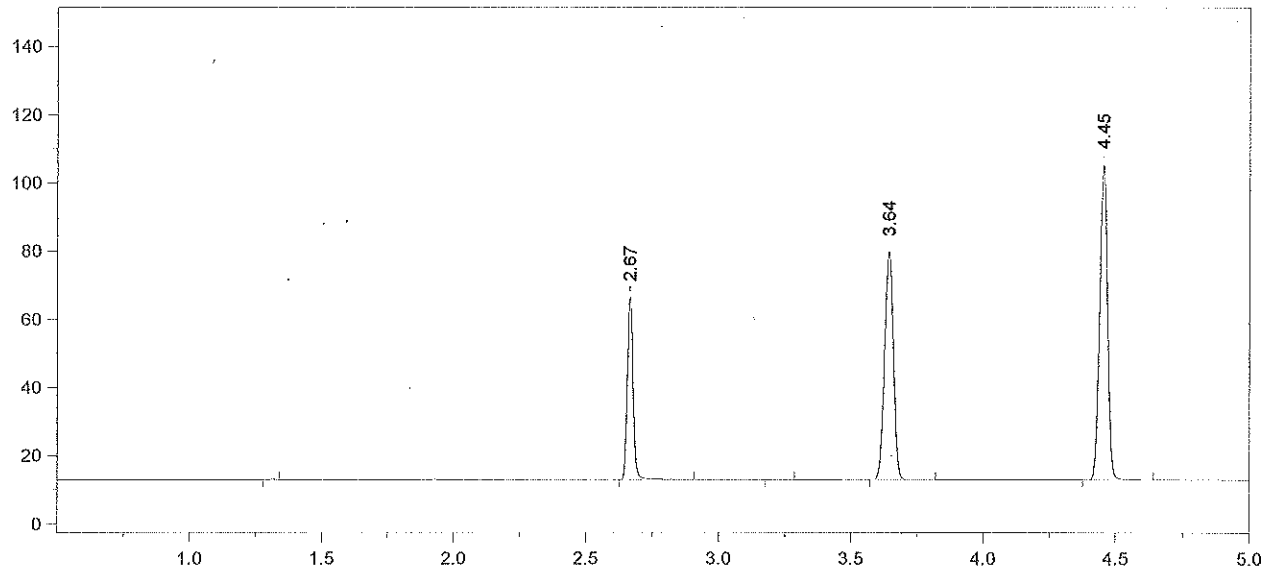


Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/26/2012 Today's Time = 8:15:59 AM
Bound File Name = SIM09252012.0009.RAW
Sample Name = AQ QC
Date Taken = 9/25/2012 6:27:36 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 09252012.cal Calibration Version = 1

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	77005	✓0.0790	0.0645
4	3.64	t-Butanol	147171	0.9742	0.7951
5	4.45	n-Propanol	196216	1.0000	0.8162

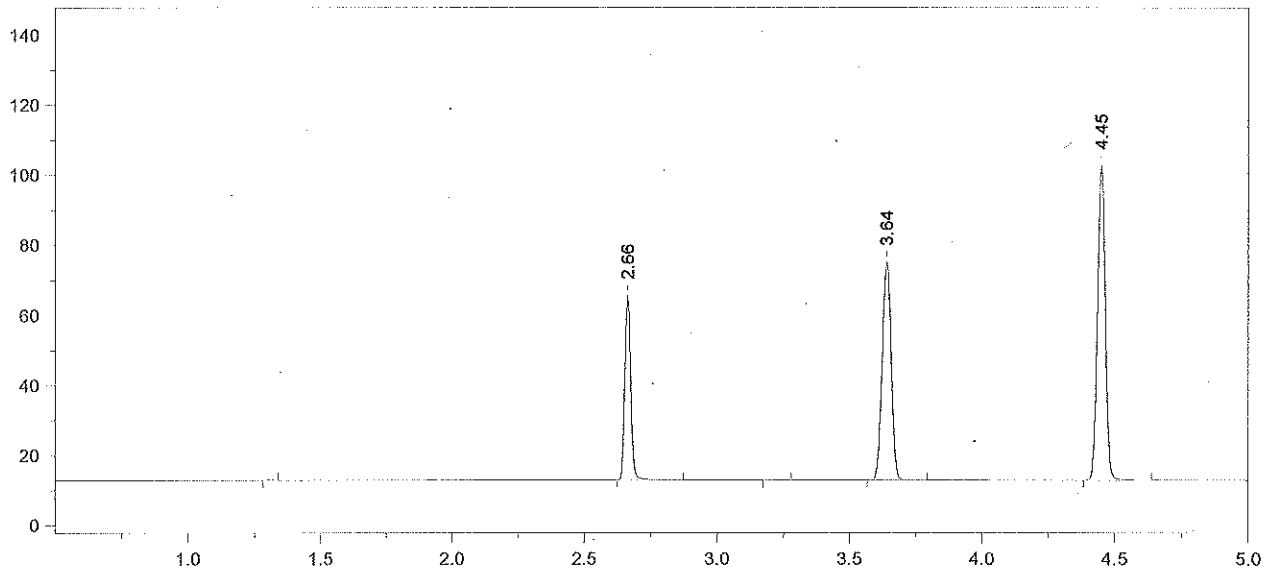
AQ QC AVG = $\frac{(0.0790 + 0.0790)}{2}$ = 0.079 (CRW)



Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/26/2012 Today's Time = 8:16:08 AM
Bound File Name = SIM09252012.0010.RAW
Sample Name = CCS
Date Taken = 9/25/2012 6:44:06 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 09252012.cal Calibration Version = 1

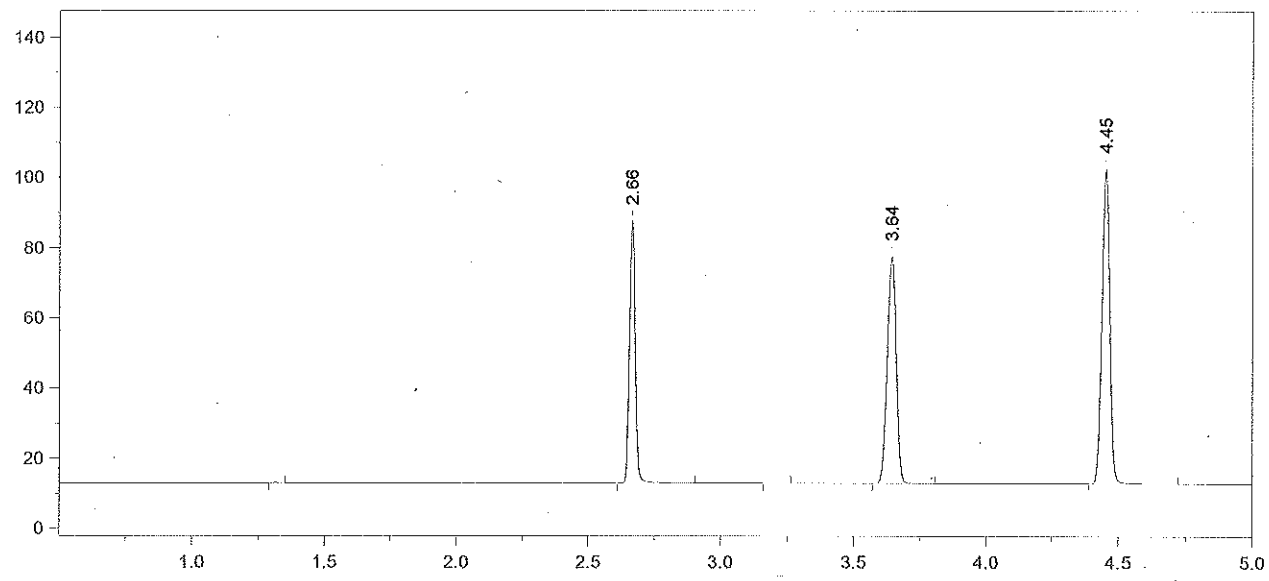
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	82681	✓0.0850	0.0694
4	3.64	t-Butanol	154282	1.0237	0.8355
5	4.45	n-Propanol	195749	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/26/2012 Today's Time = 8:16:18 AM
Bound File Name = SIM09252012.0011.RAW
Sample Name = CCS
Date Taken = 9/25/2012 6:59:40 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 09252012.cal Calibration Version = 1

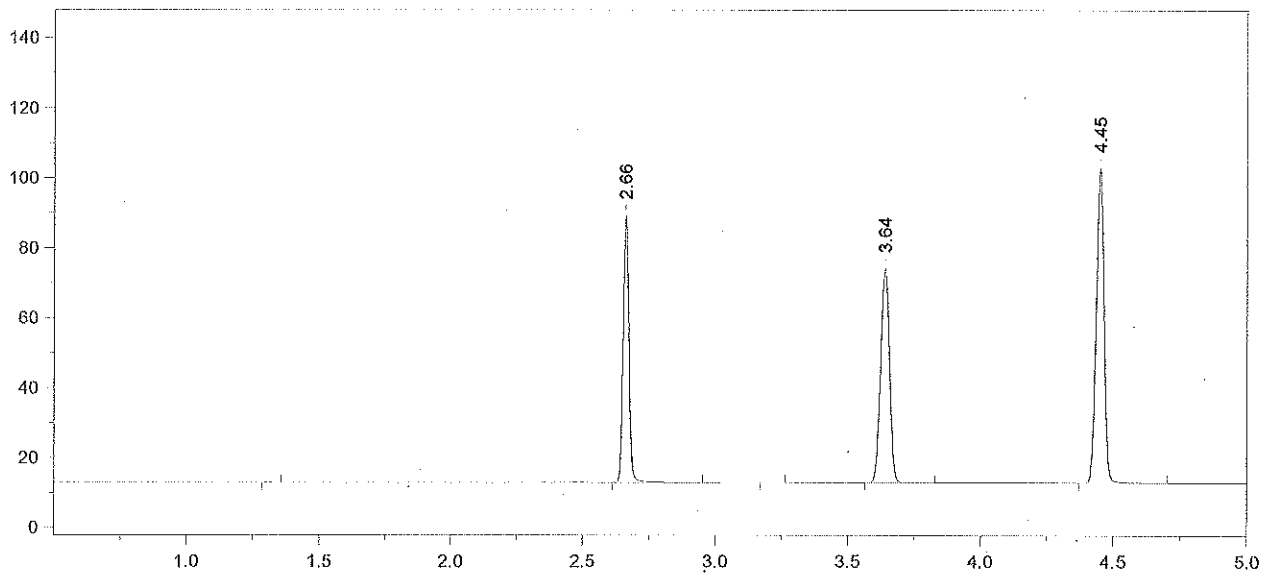
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	81413	✓0.0863	0.0704
4	3.64	t-Butanol	143818	0.9840	0.8032
5	4.45	n-Propanol	189823	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/26/2012 Today's Time = 8:16:27 AM
Bound File Name = SIM09252012.0012.RAW
Sample Name = 0.10 Ext Std KAW
Date Taken = 9/25/2012 7:15:36 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 09252012.cal Calibration Version = 1

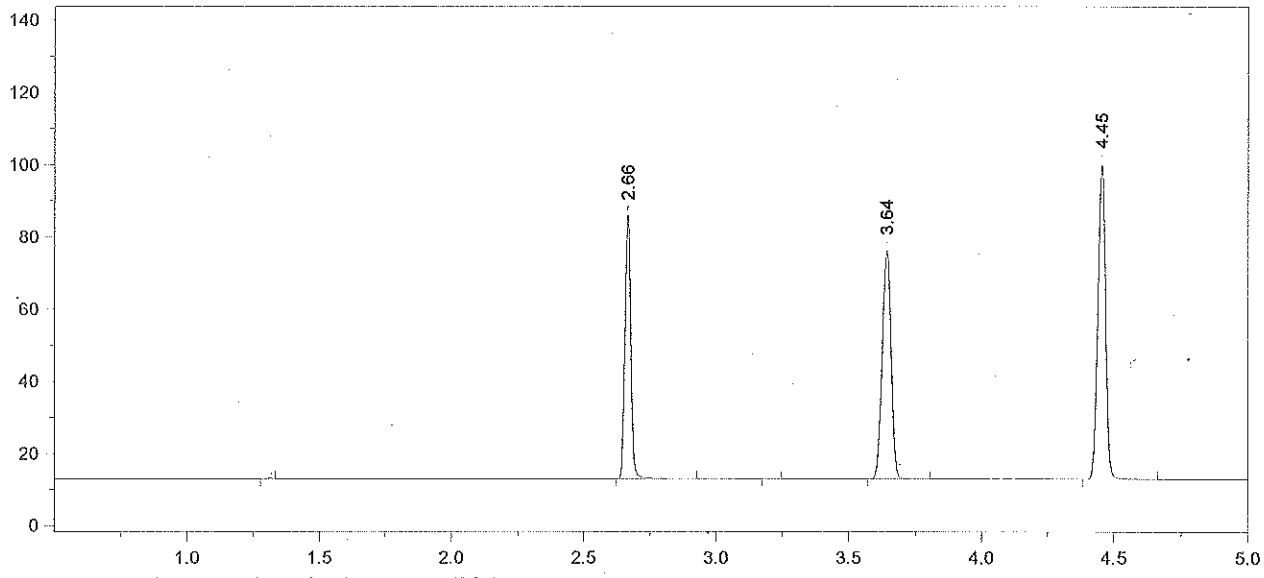
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	115295	0.1224	0.0999
4	3.64	t-Butanol	149481	1.0246	0.8363
5	4.45	n-Propanol	189489	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/26/2012 Today's Time = 8:16:36 AM
Bound File Name = SIM09252012.0013.RAW
Sample Name = 0.10 Ext Std KAW
Date Taken = 9/25/2012 7:30:04 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 09252012.cal Calibration Version = 1

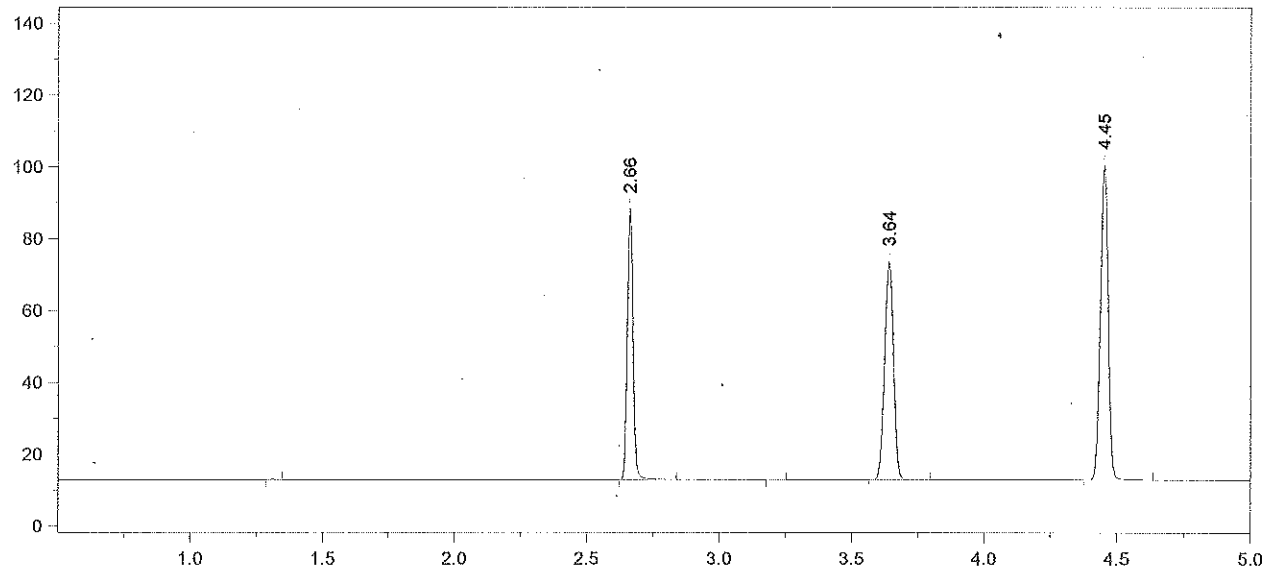
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	118042	0.1254	0.1024
4	3.64	t-Butanol	141713	0.9717	0.7931
5	4.45	n-Propanol	189420	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/26/2012 Today's Time = 8:16:45 AM
Bound File Name = SIM09252012.0014.RAW
Sample Name = 0.10 Ext Std KAW
Date Taken = 9/25/2012 7:47:00 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 09252012.cal Calibration Version = 1

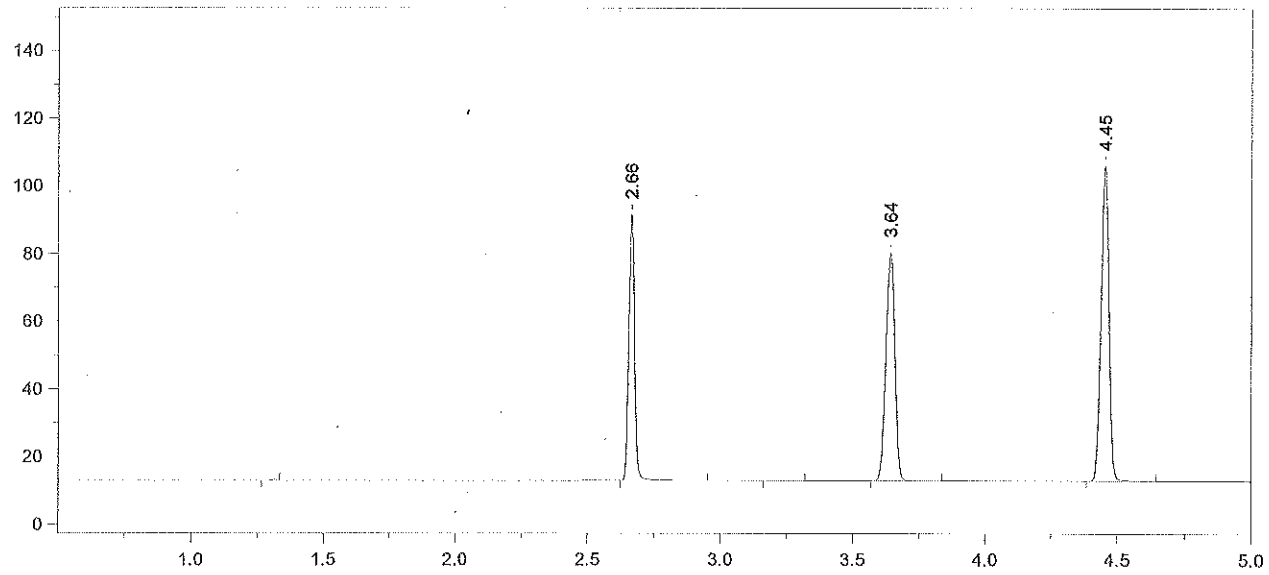
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	112867	0.1228	0.1003
4	3.64	t-Butanol	146007	1.0257	0.8372
5	4.45	n-Propanol	184878	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/26/2012 Today's Time = 8:16:55 AM
Bound File Name = SIM09252012.0015.RAW
Sample Name = 0.10 Ext Std KAW
Date Taken = 9/25/2012 8:00:14 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 09252012.cal Calibration Version = 1

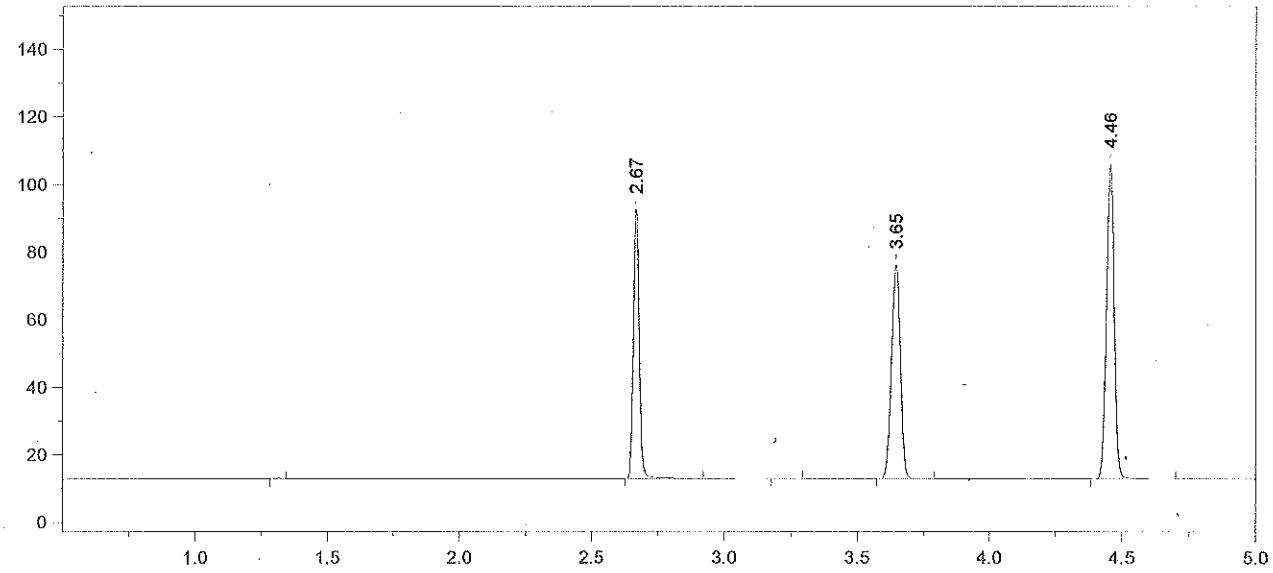
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	115195	0.1247	0.1018
4	3.64	t-Butanol	139526	0.9750	0.7958
5	4.45	n-Propanol	185870	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/26/2012 Today's Time = 8:17:05 AM
Bound File Name = SIM09252012.0016.RAW
Sample Name = 0.10 Ext Std KAW
Date Taken = 9/25/2012 8:18:25 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 09252012.cal Calibration Version = 1

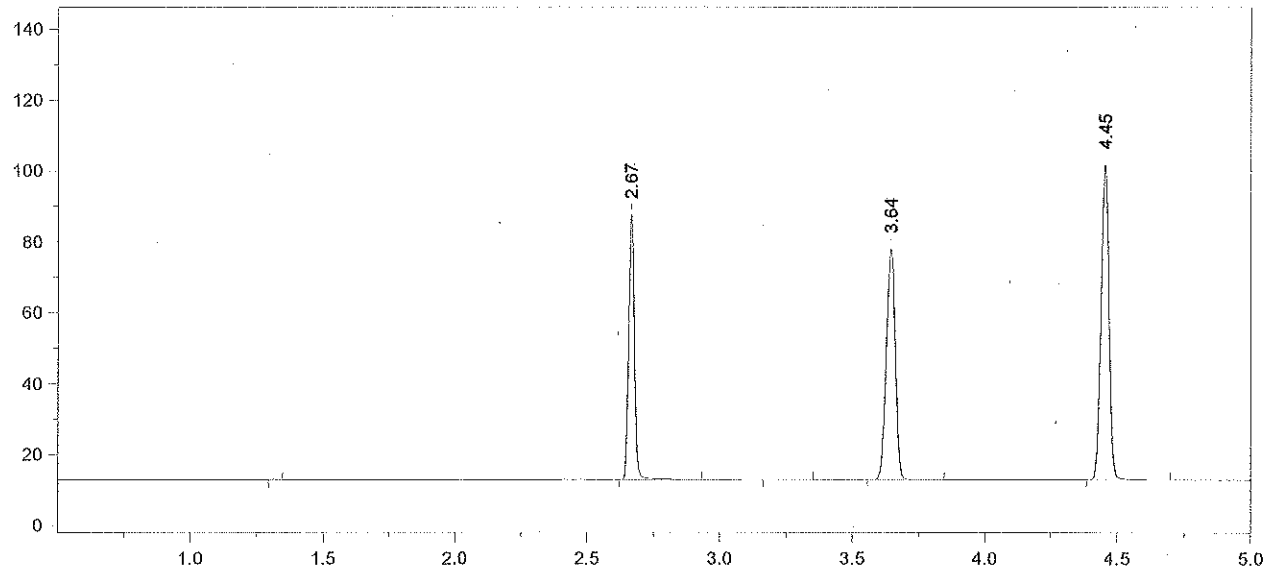
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	120759	0.1231	0.1005
4	3.64	t-Butanol	155796	1.0249	0.8365
5	4.45	n-Propanol	197437	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/26/2012 Today's Time = 8:17:14 AM
Bound File Name = SIM09252012.0017.RAW
Sample Name = 0.10 Ext Std KAW
Date Taken = 9/25/2012 8:32:13 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 09252012.cal Calibration Version = 1

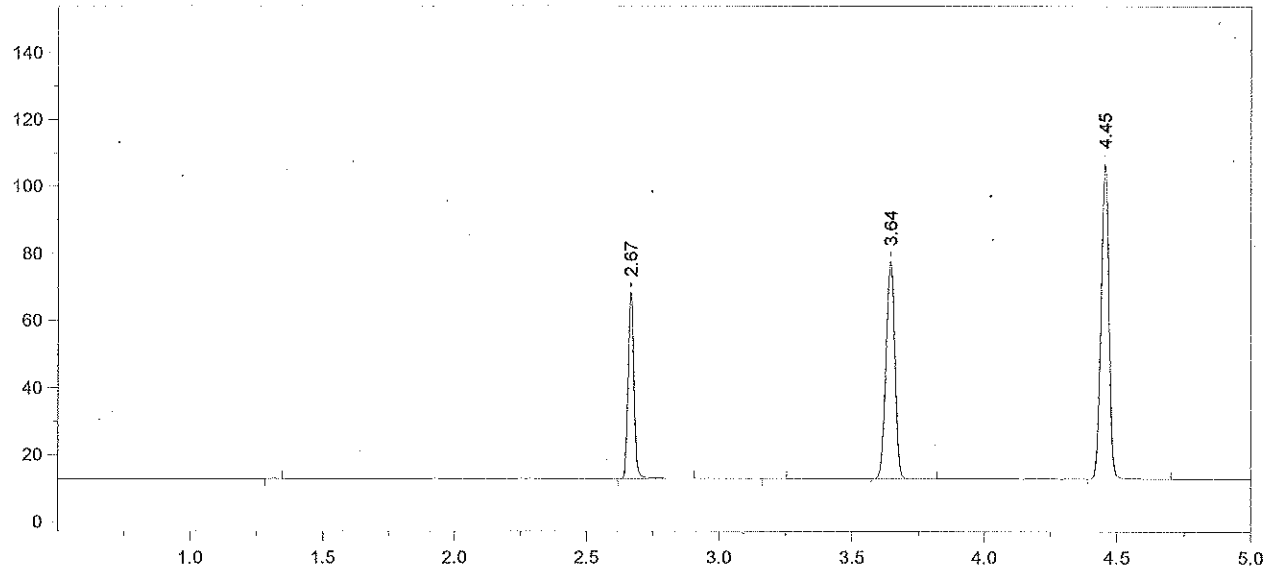
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	123423	0.1260	0.1028
4	3.65	t-Butanol	146617	0.9661	0.7885
5	4.46	n-Propanol	197111	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/26/2012 Today's Time = 8:17:23 AM
Bound File Name = SIM09252012.0018.RAW
Sample Name = 0.10 Ext Std KAW
Date Taken = 9/25/2012 8:49:49 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 09252012.cal Calibration Version = 1

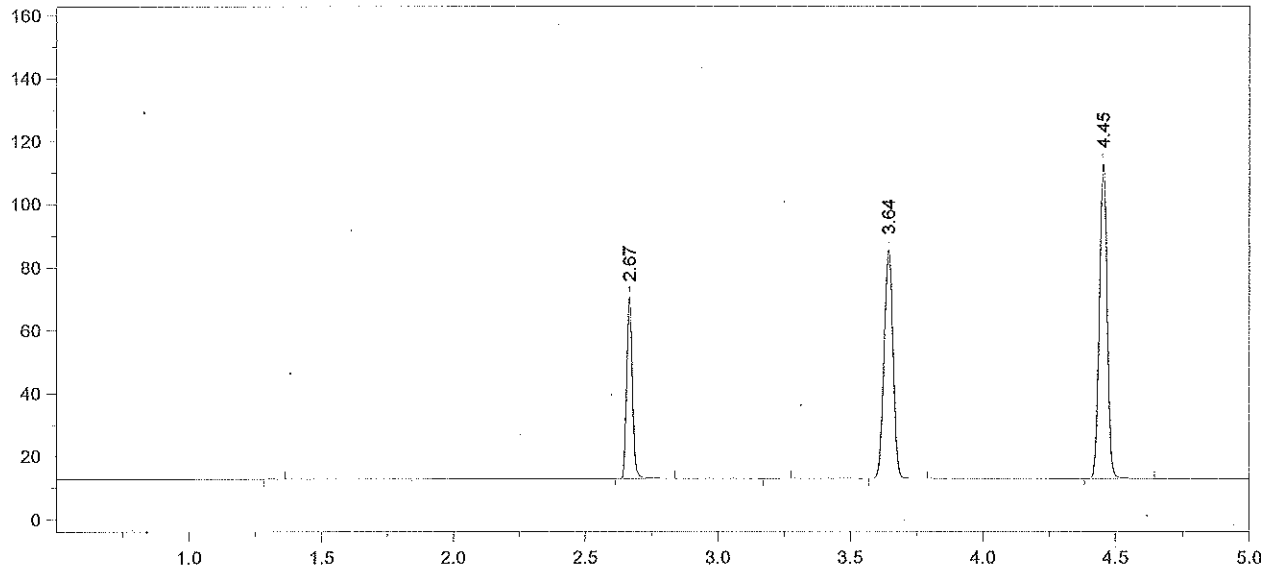
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	114875	0.1225	0.1000
4	3.64	t-Butanol	149855	1.0314	0.8418
5	4.45	n-Propanol	188704	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/26/2012 Today's Time = 8:17:32 AM
Bound File Name = SIM09252012.0019.RAW
Sample Name = CCS
Date Taken = 9/25/2012 9:03:35 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 09252012.cal Calibration Version = 1

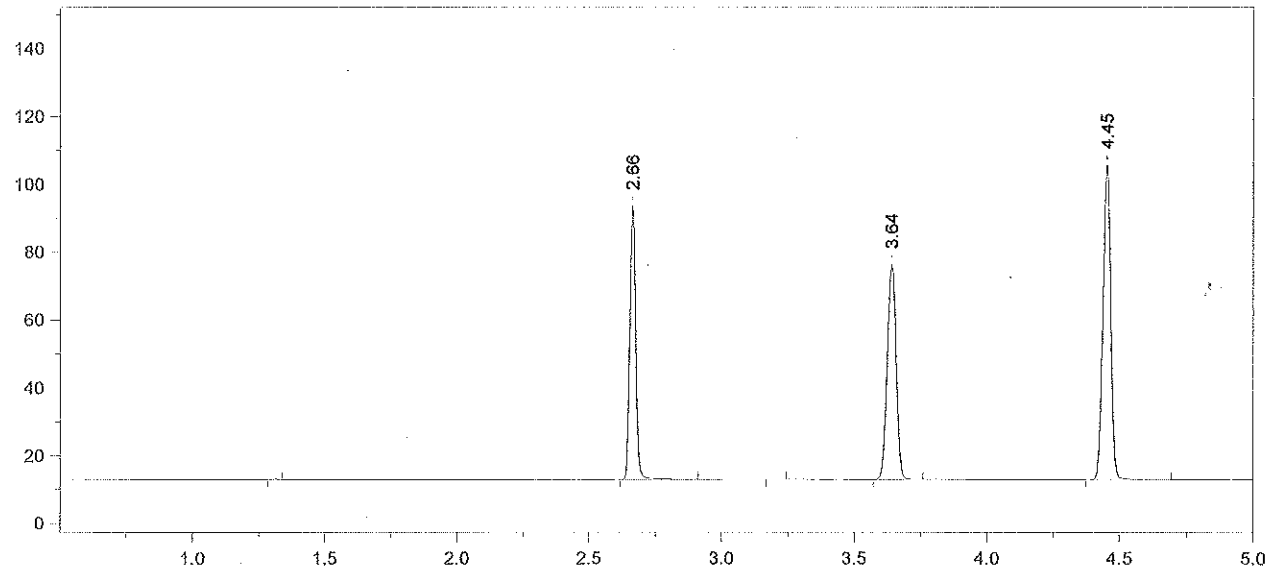
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	85647	0.0863	0.0704
4	3.64	t-Butanol	149876	0.9744	0.7953
5	4.45	n-Propanol	199775	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/26/2012 Today's Time = 8:17:42 AM
Bound File Name = SIM09252012.0020.RAW
Sample Name = CCS
Date Taken = 9/25/2012 9:19:33 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 09252012.cal Calibration Version = 1

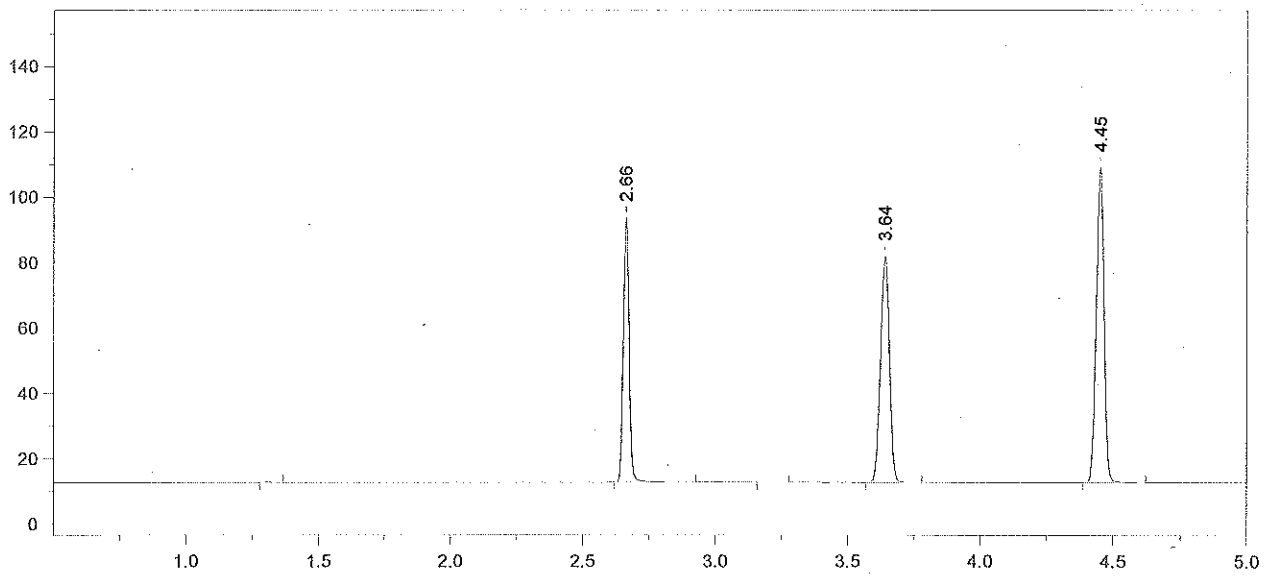
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	88306	0.0841	0.0687
4	3.64	t-Butanol	166863	1.0259	0.8373
5	4.45	n-Propanol	211258	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/26/2012 Today's Time = 8:17:51 AM
Bound File Name = SIM09252012.0021.RAW
Sample Name = 0.10 Ext Std TLC
Date Taken = 9/25/2012 9:34:56 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 09252012.cal Calibration Version = 1

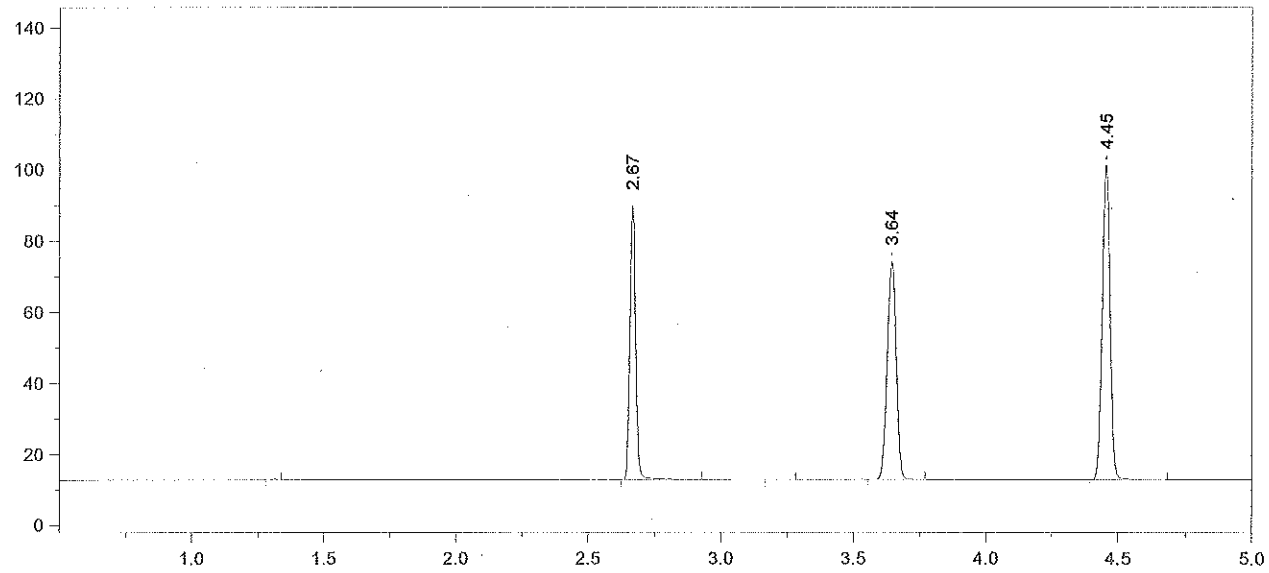
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	124078	0.1270	0.1037
4	3.64	t-Butanol	146096	0.9655	0.7880
5	4.45	n-Propanol	196538	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/26/2012 Today's Time = 8:18:00 AM
Bound File Name = SIM09252012.0022.RAW
Sample Name = 0.10 Ext Std TLC
Date Taken = 9/25/2012 9:51:02 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 09252012.cal Calibration Version = 1

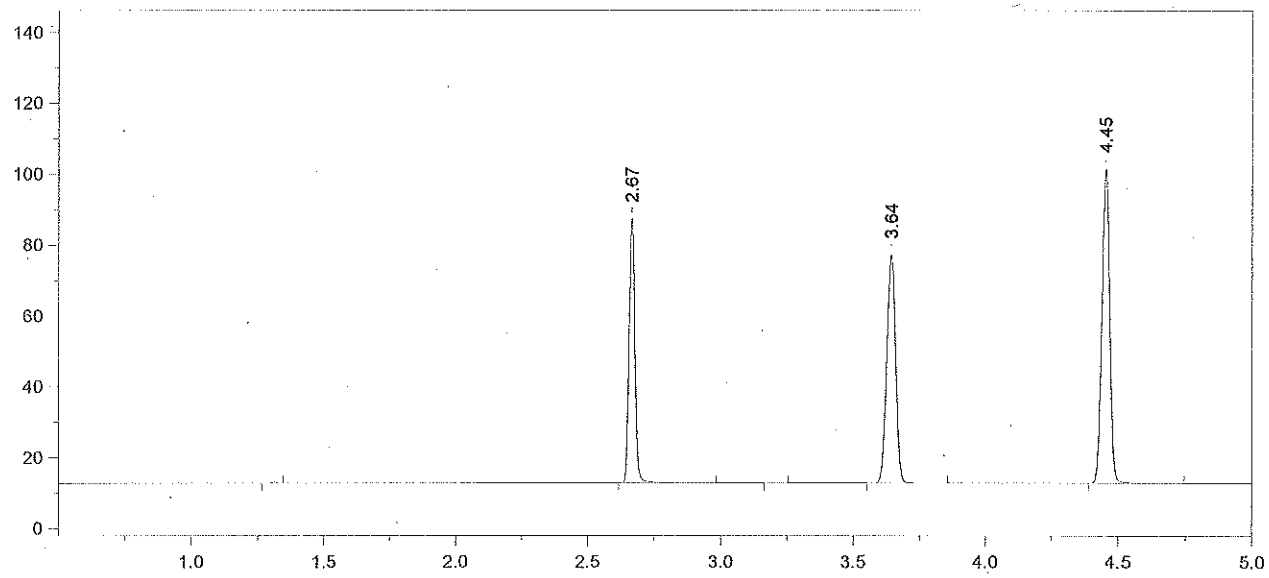
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	124584	0.1238	0.1010
4	3.64	t-Butanol	158886	1.0189	0.8316
5	4.45	n-Propanol	202544	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/26/2012 Today's Time = 8:18:09 AM
Bound File Name = SIM09252012.0023.RAW
Sample Name = 0.10 Ext Std TLC
Date Taken = 9/25/2012 10:04:43 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 09252012.cal Calibration Version = 1

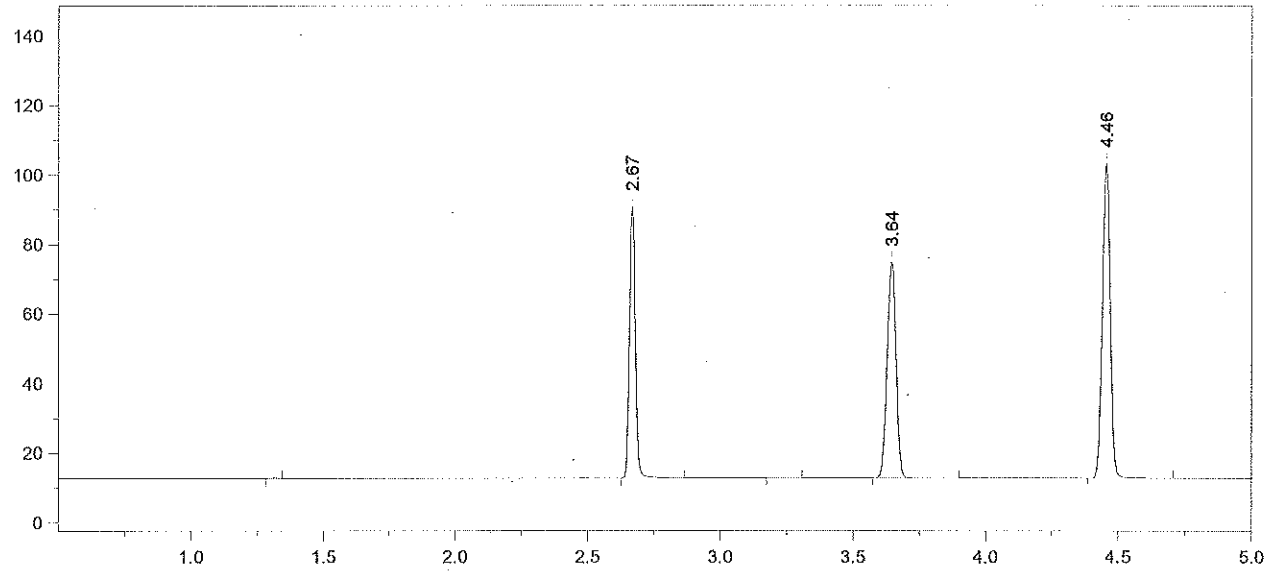
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	118174	0.1267	0.1034
4	3.64	t-Butanol	141658	0.9804	0.8002
5	4.45	n-Propanol	187665	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/26/2012 Today's Time = 8:18:18 AM
Bound File Name = SIM09252012.0024.RAW
Sample Name = 0.10 Ext Std TLC
Date Taken = 9/25/2012 10:22:27 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 09252012.cal Calibration Version = 1

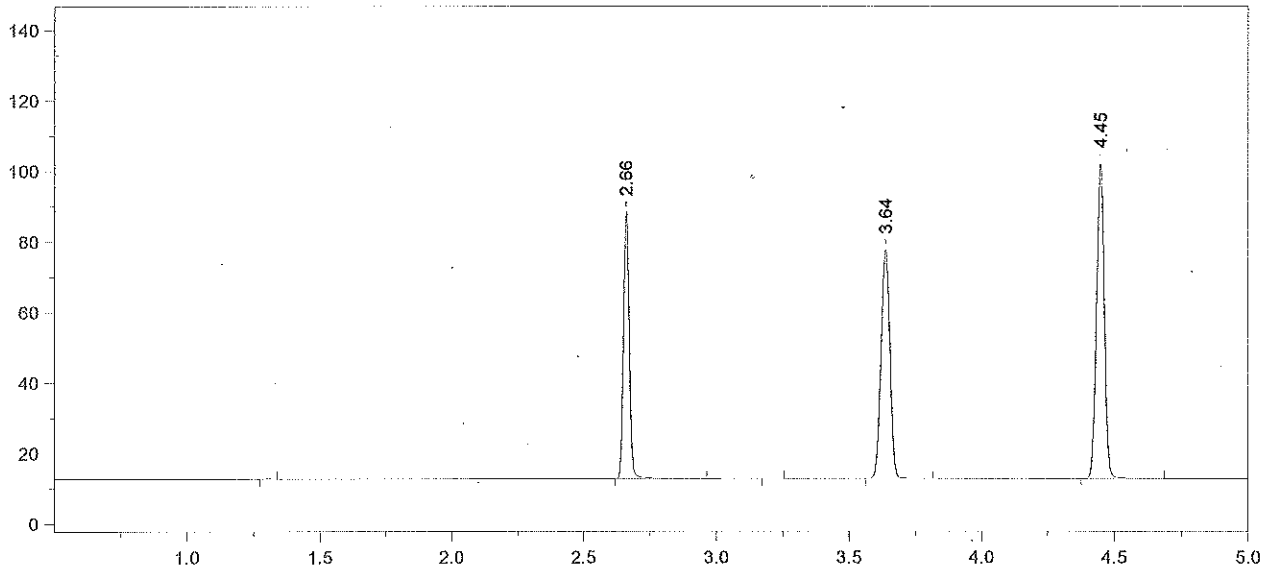
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	115236	0.1234	0.1007
4	3.64	t-Butanol	149081	1.0301	0.8407
5	4.45	n-Propanol	187977	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/26/2012 Today's Time = 8:18:28 AM
Bound File Name = SIM09252012.0025.RAW
Sample Name = 0.10 Ext Std TLC
Date Taken = 9/25/2012 10:36:10 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 09252012.cal Calibration Version = 1

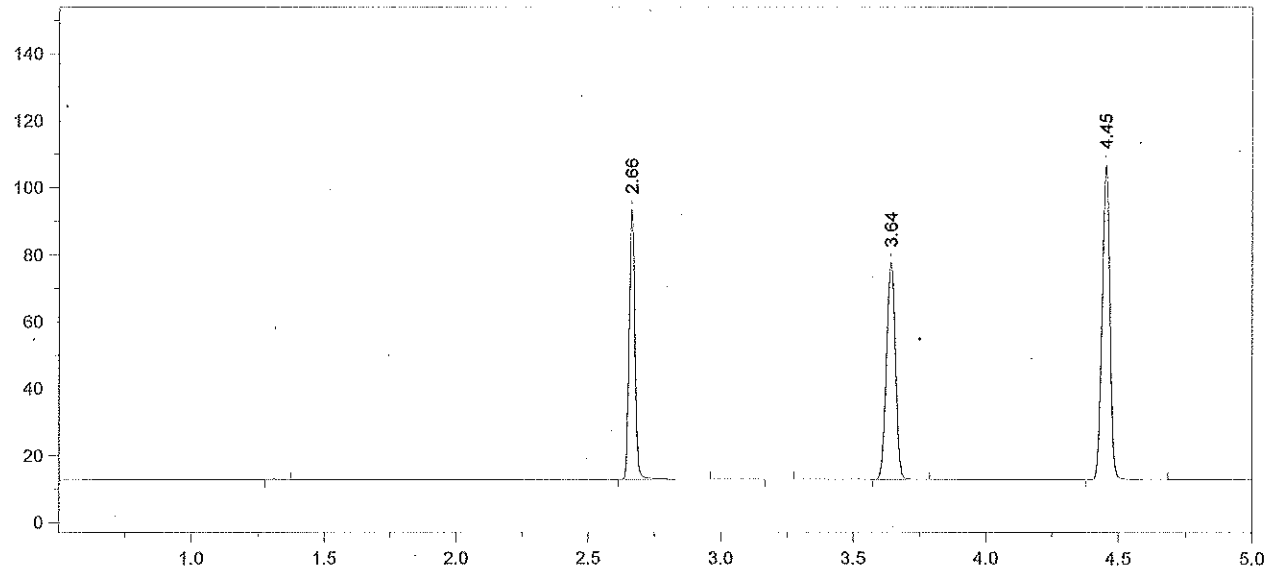
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	119897	0.1257	0.1026
4	3.64	t-Butanol	143888	0.9733	0.7944
5	4.46	n-Propanol	192004	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/26/2012 Today's Time = 8:18:37 AM
Bound File Name = SIM09252012.0026.RAW
Sample Name = 0.10 Ext Std TLC
Date Taken = 9/25/2012 10:53:51 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 09252012.cal Calibration Version = 1

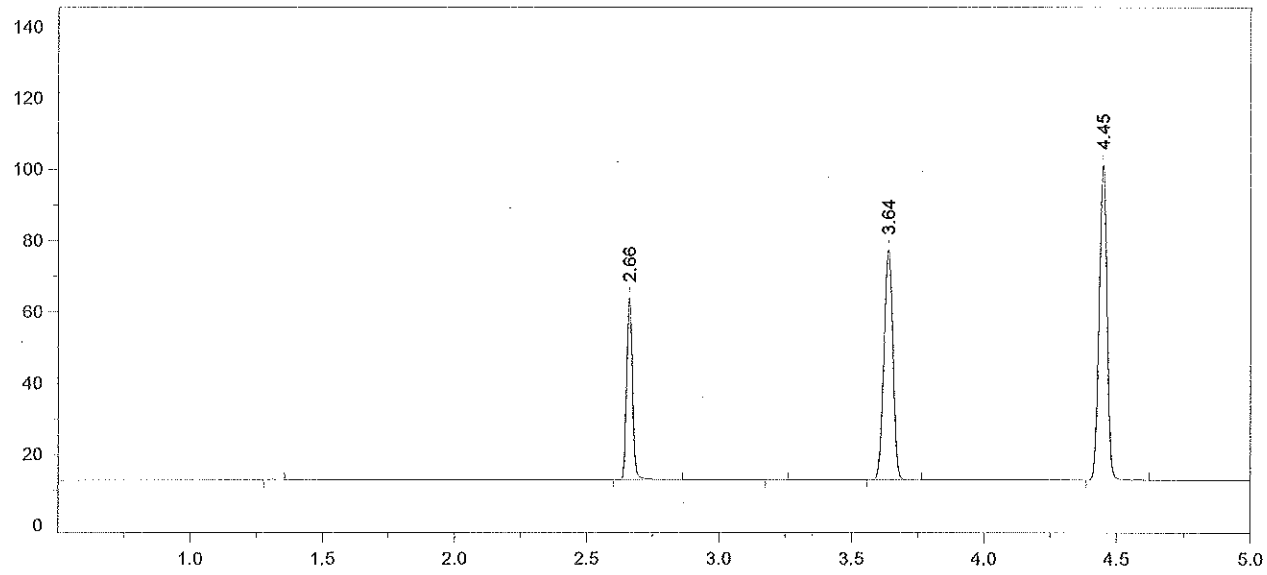
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	115953	0.1239	0.1011
4	3.64	t-Butanol	149747	1.0324	0.8426
5	4.45	n-Propanol	188397	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/26/2012 Today's Time = 8:18:46 AM
Bound File Name = SIM09252012.0027.RAW
Sample Name = 0.10 Ext Std TLC
Date Taken = 9/25/2012 11:07:04 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 09252012.cal Calibration Version = 1

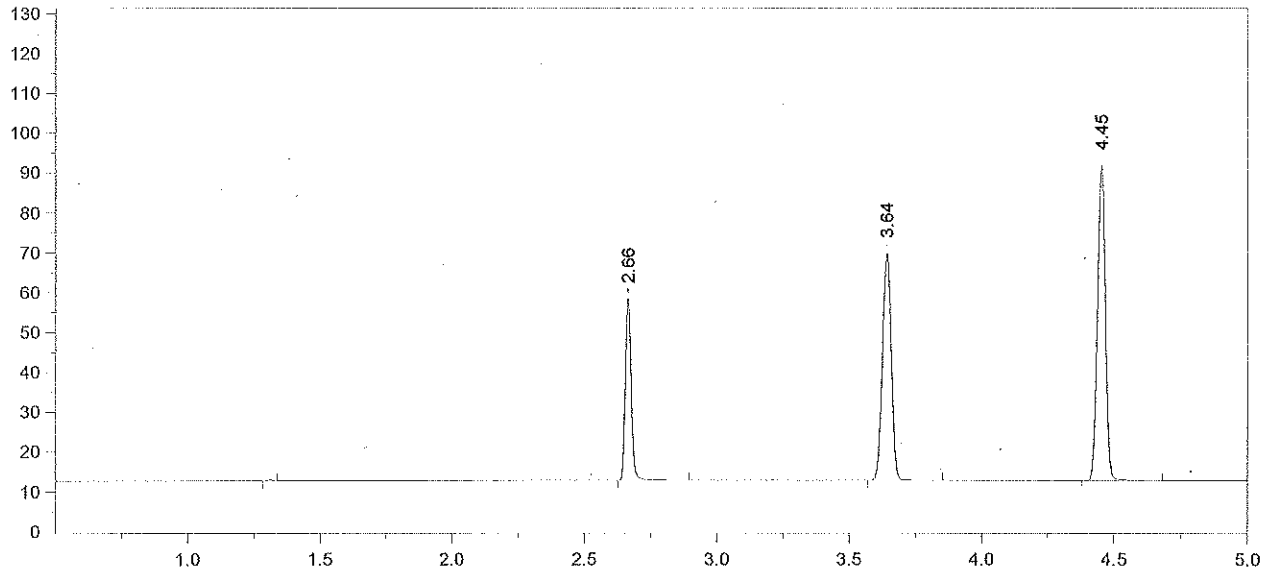
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	123690	0.1253	0.1023
4	3.64	t-Butanol	150031	0.9810	0.8007
5	4.45	n-Propanol	198635	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/26/2012 Today's Time = 8:18:55 AM
Bound File Name = SIM09252012.0028.RAW
Sample Name = CCS
Date Taken = 9/25/2012 11:25:16 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 09252012.cal Calibration Version = 1

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	79228	0.0847	0.0691
4	3.64	t-Butanol	149065	1.0287	0.8397
5	4.45	n-Propanol	188200	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/26/2012 Today's Time = 8:19:04 AM
Bound File Name = SIM09252012.0029.RAW
Sample Name = CCS
Date Taken = 9/25/2012 11:39:01 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 09252012.cal Calibration Version = 1

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	71275	0.0856	0.0698
3	3.64	t-Butanol	131353	1.0177	0.8306
4	4.45	n-Propanol	167639	1.0000	0.8162

Headspace Alcohol Analysis Standards Coversheet

Analyst: KAW Date: 9/27/12

Calibration Standards:

Lot ID: ES-07052012 Preparation Date: 07/05/2012 Expiration Date: 10/05/2012

	Standard A	Standard B	Standard C	Standard D	Standard E	Calibration Check (C)
% Ethanol (w/v)	0.005	0.021	0.084	0.200	0.404	0.084
Acceptance Range (± 10%)	0.006	0.023	0.093	0.219	0.444	0.093
	0.004	0.019	0.076	0.180	0.363	0.076

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	2.66		
		Acetone	3.07		
		Isopropanol	3.20		
		T- butanol	3.64		
		n-propanol	4.45		
3	Standard A		0.005	(Y) N	
4	Standard B		0.021	(Y) N	
5	Standard C		0.089	(Y) N	
6	Standard D		0.202	(Y) N	
7	Standard E		0.418	(Y) N	
8	Aqueous QC		0.080	(Y) N	AQ QC AVG = 0.080 ✓
9	Aqueous QC		0.081	(Y) N	

10/1/2012

File Name: C:\Methods\SimCal 09262012.cal
Version: 1

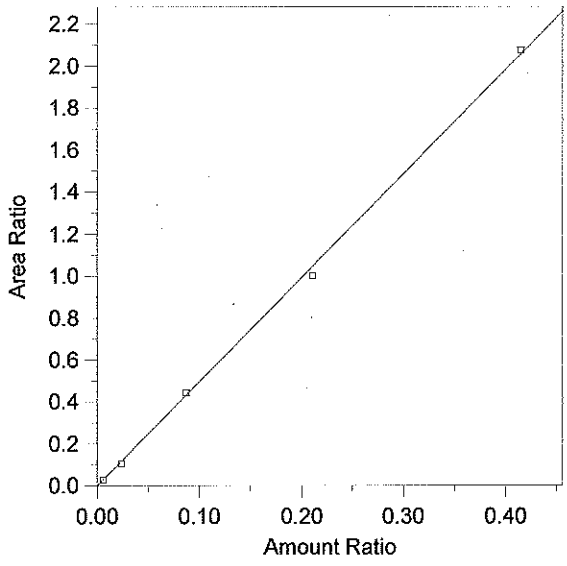
Creator:
Description:
Reason for change:

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

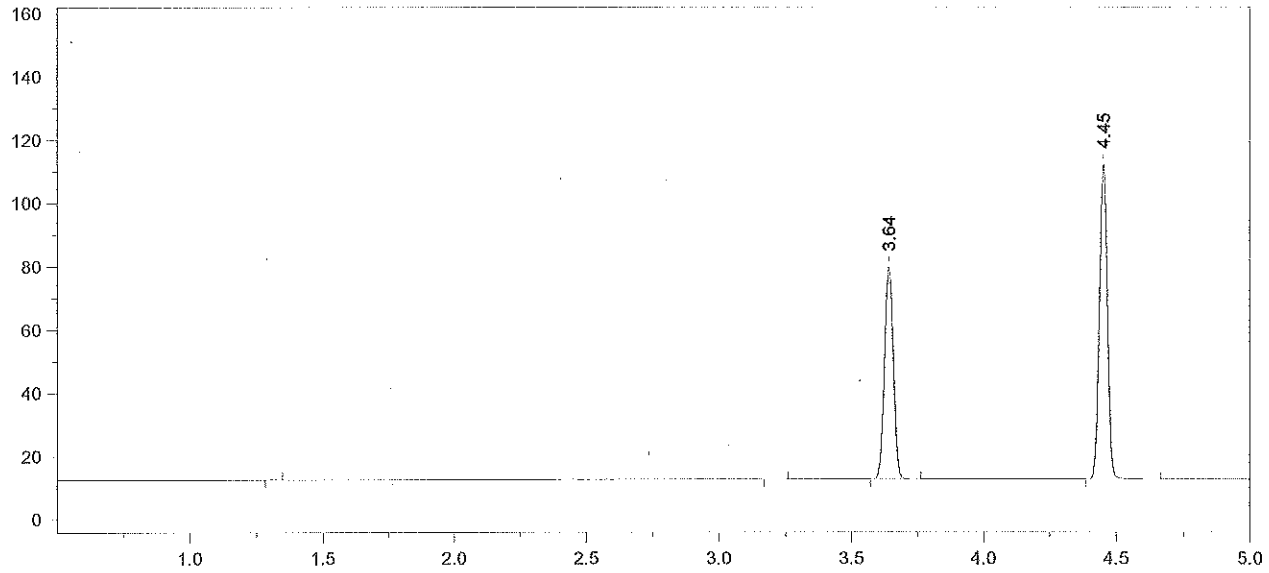
$Y = 4.95691\ X + 0$

Linear fit with equal weighting, forced to origin
Coefficient of determination: 0.9990898
Average error: 4.592%
Average CF: 4.80758
RSD: 5.092%

Level	Amount	Response	Cal Factor	Error, %	Amount Ratio	Response Ratio	Source	Date and time
1	(0.081)	(85146)	--	--	0.081	85146	Manual	5/11/2012 8:03:03 AM
2	0.0059	5370.464	910248.1	-5.724	0.0059	2.757161E-02	C:\Alcohol Data\SIM09262012\SIM09262012.0003.BND	9/27/2012 9:34:12 AM
3	0.0235	20036.4	852612.8	-9.107	0.0235	0.1058786	C:\Alcohol Data\SIM09262012\SIM09262012.0004.BND	9/27/2012 9:34:19 AM
4	0.0869	84219.63	969155.7	2.968	0.0869	0.44354	C:\Alcohol Data\SIM09262012\SIM09262012.0005.BND	9/27/2012 9:34:27 AM
5	0.2107	192637.2	914272.4	-4.179	0.2107	1.00077	C:\Alcohol Data\SIM09262012\SIM09262012.0006.BND	9/27/2012 9:34:34 AM
6	0.4144	410136.7	989712.1	0.980	0.4144	2.074283	C:\Alcohol Data\SIM09262012\SIM09262012.0007.BND	9/27/2012 9:34:43 AM

File Name = C:\Alcohol Data\SIM09262012\SIM09262012.SEQ
Version = 1
File Date = 9/26/2012 8:13:56 AM

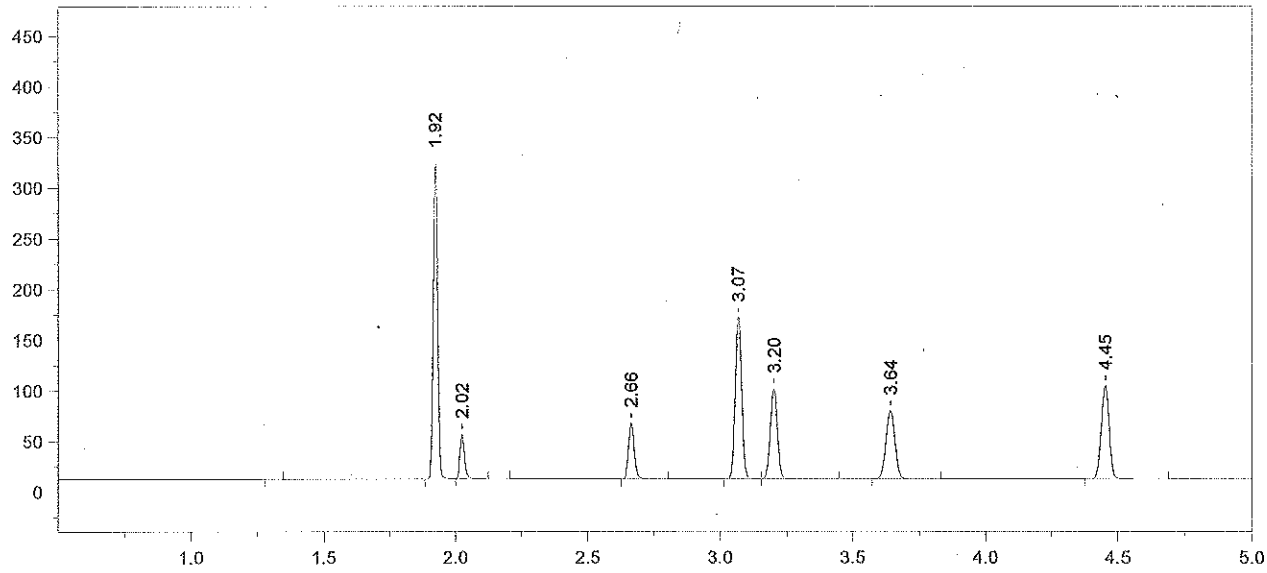
Entry #	Raw File Name	Method File Name	Sample Name	Sample Wt.	Int. Std. Amount
1	SIM09262012.0001.raw	simsoln.met	Blank	1.00	1.00
2	SIM09262012.0002.raw	simsoln.met	TMX	1.00	1.00
3	SIM09262012.0003.raw	simsoln.met	STD A	1.00	1.00
4	SIM09262012.0004.raw	simsoln.met	STD B	1.00	1.00
5	SIM09262012.0005.raw	simsoln.met	STD C	1.00	1.00
6	SIM09262012.0006.raw	simsoln.met	STD D	1.00	1.00
7	SIM09262012.0007.raw	simsoln.met	STD E	1.00	1.00
8	SIM09262012.0008.raw	simsoln.met	AQ QC	1.00	1.00
9	SIM09262012.0009.raw	simsoln.met	AQ QC	1.00	1.00
10	SIM09262012.0010.raw	simsoln.met	CCS	1.00	1.00
11	SIM09262012.0011.raw	simsoln.met	CCS	1.00	1.00
12	SIM09262012.0012.raw	simsoln.met	0.10 Ext Std KAW	1.00	1.00
13	SIM09262012.0013.raw	simsoln.met	0.10 Ext Std KAW	1.00	1.00
14	SIM09262012.0014.raw	simsoln.met	0.10 Ext Std KAW	1.00	1.00
15	SIM09262012.0015.raw	simsoln.met	0.10 Ext Std KAW	1.00	1.00
16	SIM09262012.0016.raw	simsoln.met	0.10 Ext Std KAW	1.00	1.00
17	SIM09262012.0017.raw	simsoln.met	0.10 Ext Std KAW	1.00	1.00
18	SIM09262012.0018.raw	simsoln.met	0.10 Ext Std KAW	1.00	1.00
19	SIM09262012.0019.raw	simsoln.met	CCS	1.00	1.00
20	SIM09262012.0020.raw	simsoln.met	CCS	1.00	1.00
21	SIM09262012.0021.raw	simsoln.met	0.10 Ext Std TLC	1.00	1.00
22	SIM09262012.0022.raw	simsoln.met	0.10 Ext Std TLC	1.00	1.00
23	SIM09262012.0023.raw	simsoln.met	0.10 Ext Std TLC	1.00	1.00
24	SIM09262012.0024.raw	simsoln.met	0.10 Ext Std TLC	1.00	1.00
25	SIM09262012.0025.raw	simsoln.met	0.10 Ext Std TLC	1.00	1.00
26	SIM09262012.0026.raw	simsoln.met	0.10 Ext Std TLC	1.00	1.00
27	SIM09262012.0027.raw	simsoln.met	0.10 Ext Std TLC	1.00	1.00
28	SIM09262012.0028.raw	simsoln.met	CCS	1.00	1.00
29	SIM09262012.0029.raw	simsoln.met	CCS	1.00	1.00



Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/27/2012 Today's Time = 9:43:31 AM
Bound File Name = SIM09262012.0001.RAW
Sample Name = Blank
Date Taken = 9/26/2012 10:04:55 AM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 09262012.cal Calibration Version = 1

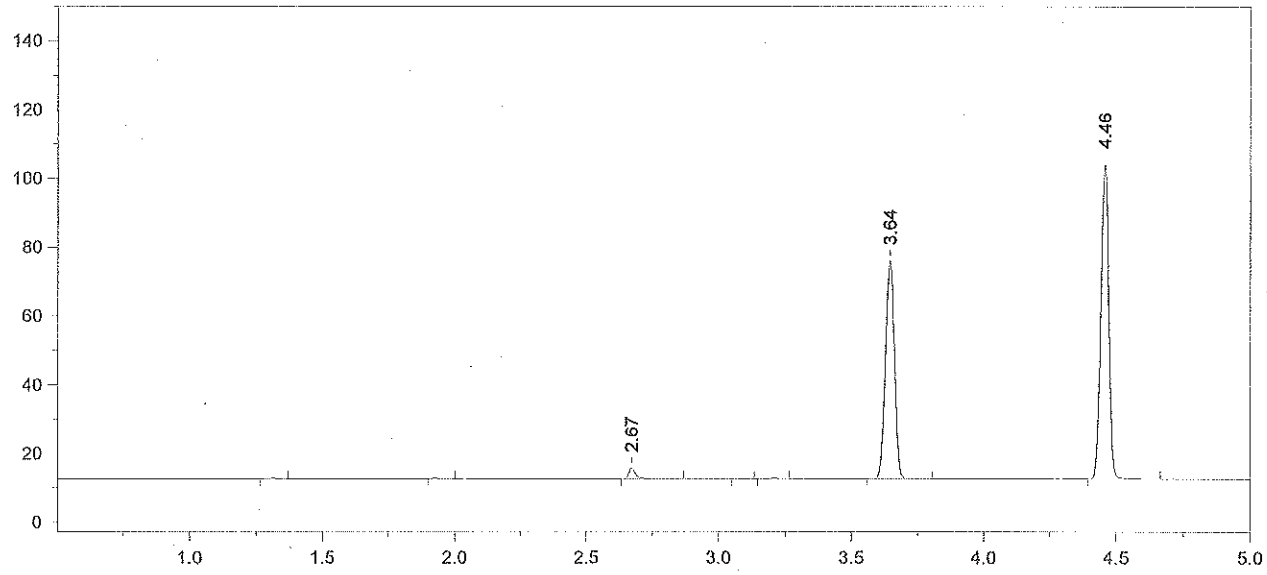
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	3.64	t-Butanol	155415	0.9577	0.7817
4	4.45	n-Propanol	211549	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/27/2012 Today's Time = 9:43:38 AM
Bound File Name = SIM09262012.0002.RAW
Sample Name = TMX
Date Taken = 9/26/2012 10:22:14 AM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 09262012.cal Calibration Version = 1

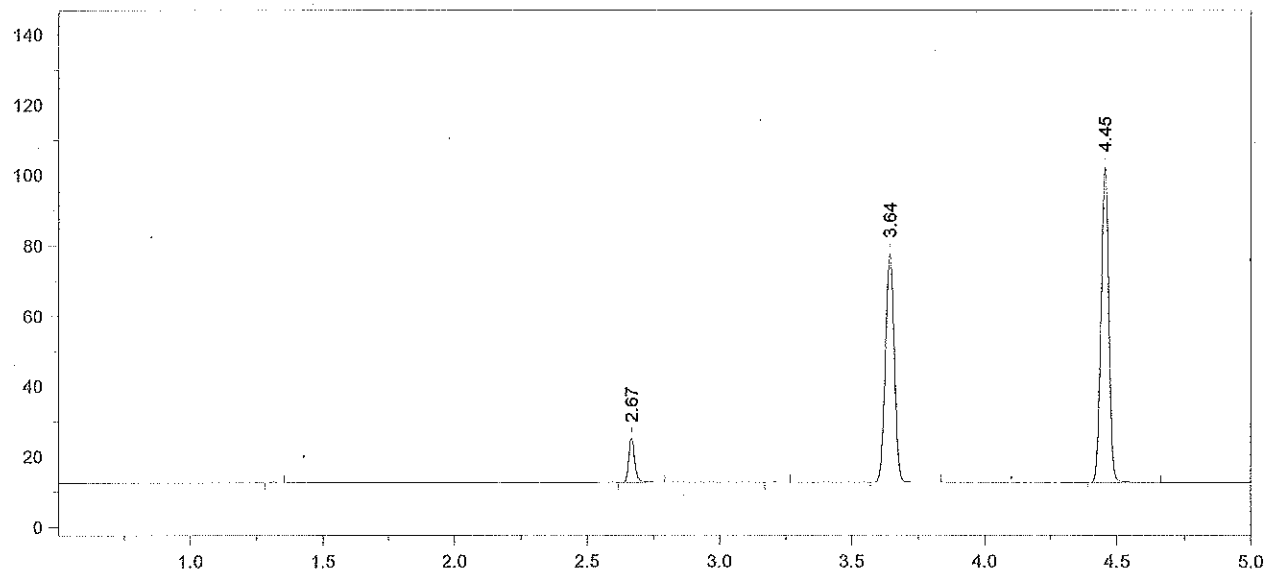
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	1.92	Acetaldehyde	355199	0.0900	0.0735
3	2.02	Methanol	53329	0.0920	0.0751
4	2.66	Ethanol	84753	0.0872	0.0712
5	3.07	Acetone	273144	0.0920	0.0751
6	3.20	Isopropanol	165689	0.1230	0.1004
7	3.64	t-Butanol	155179	1.0323	0.8425
8	4.45	n-Propanol	195976	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/27/2012 Today's Time = 9:43:46 AM
Bound File Name = SIM09262012.0003.RAW
Sample Name = STD A
Date Taken = 9/26/2012 10:36:02 AM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 09262012.cal Calibration Version = 1

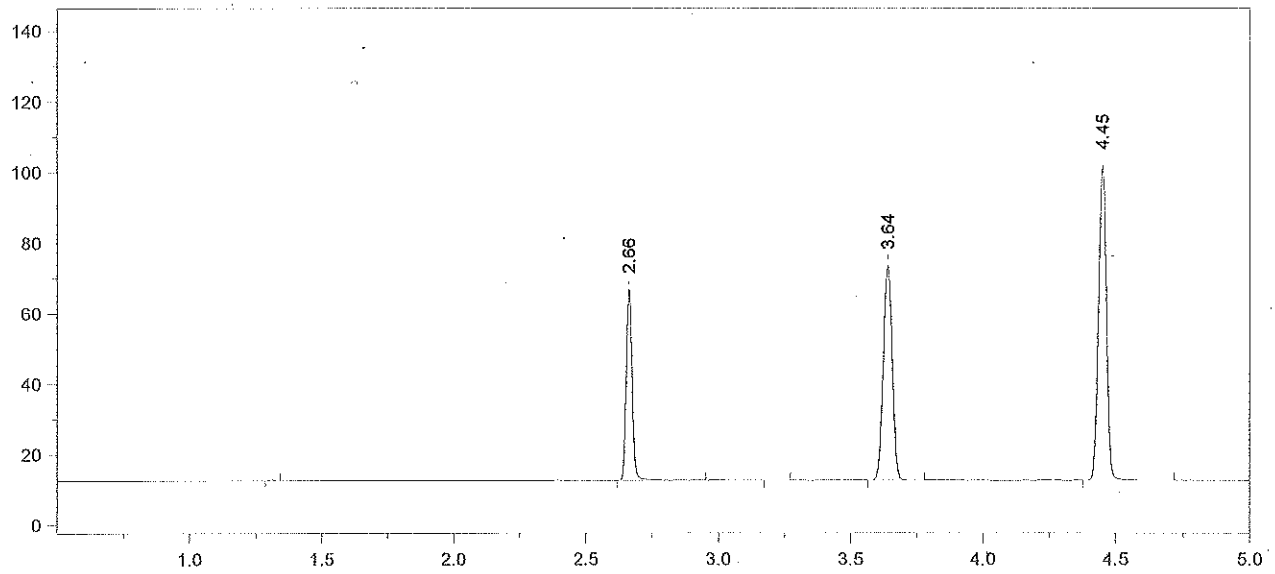
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.67	Ethanol	05370	0.0056	0.0045
6	3.64	t-Butanol	146542	0.9808	0.8005
7	4.46	n-Propanol	194782	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/27/2012 Today's Time = 9:43:53 AM
Bound File Name = SIM09262012.0004.RAW
Sample Name = STD B
Date Taken = 9/26/2012 10:53:41 AM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 09262012.cal Calibration Version = 1

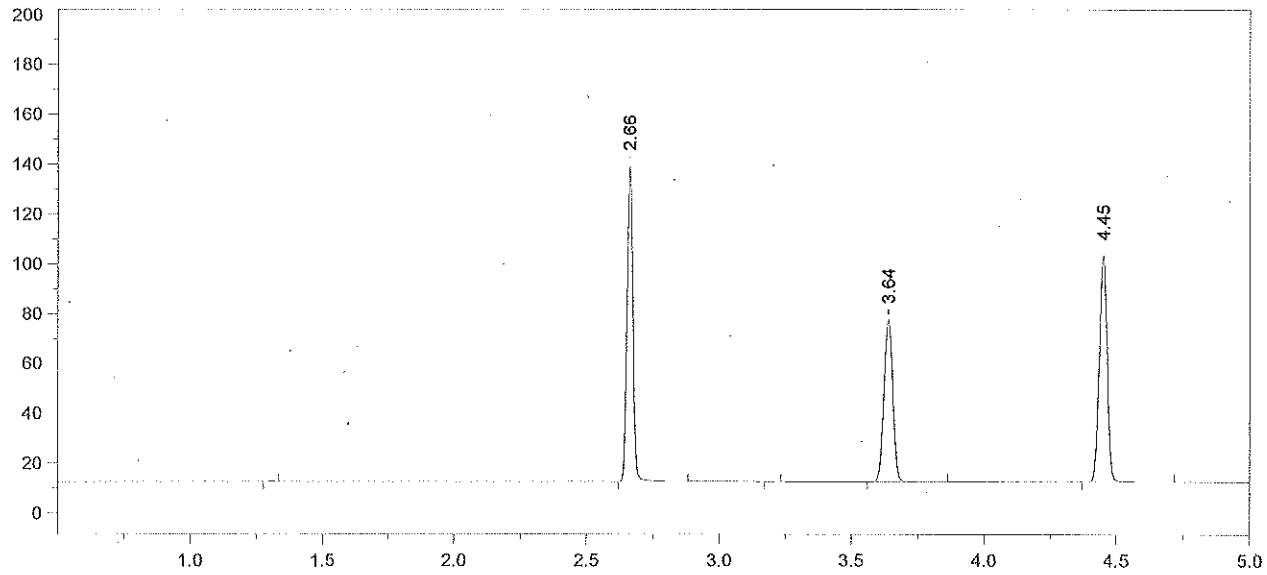
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	20036	0.0214	0.0174
4	3.64	t-Butanol	149710	1.0313	0.8418
5	4.45	n-Propanol	189239	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/27/2012 Today's Time = 9:44:02 AM
Bound File Name = SIM09262012.0005.RAW
Sample Name = STD C
Date Taken = 9/26/2012 11:07:34 AM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 09262012.cal Calibration Version = 1

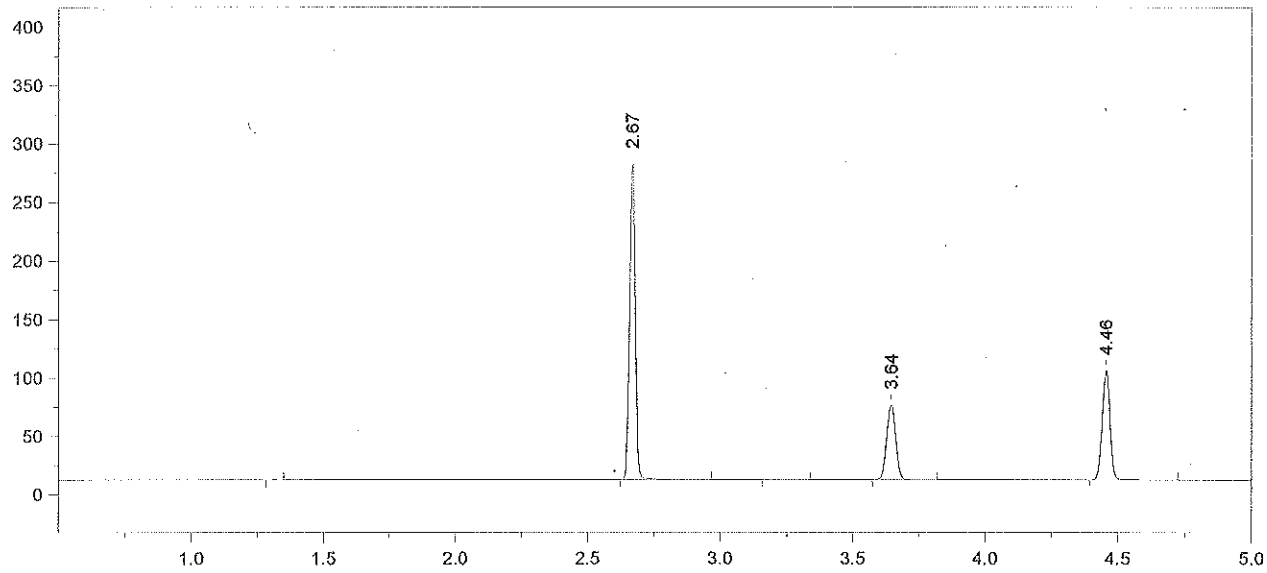
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	84220	0.0895	0.0730
4	3.64	t-Butanol	140271	0.9630	0.7860
5	4.45	n-Propanol	189881	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/27/2012 Today's Time = 9:44:10 AM
Bound File Name = SIM09262012.0006.RAW
Sample Name = STD D
Date Taken = 9/26/2012 11:23:25 AM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 09262012.cal Calibration Version = 1

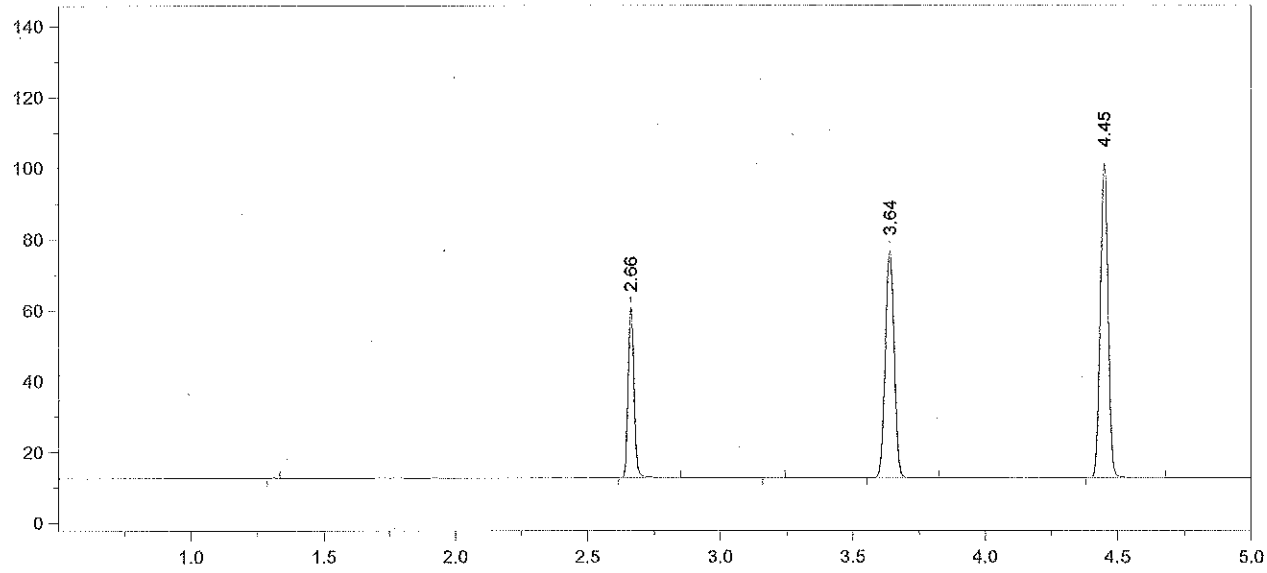
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	192637	0.2019	0.1648
4	3.64	t-Butanol	150257	1.0176	0.8306
5	4.45	n-Propanol	192489	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/27/2012 Today's Time = 9:44:18 AM
Bound File Name = SIM09262012.0007.RAW
Sample Name = STD E
Date Taken = 9/26/2012 11:38:20 AM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 09262012.cal Calibration Version = 1

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	410137	0.4185	0.3415
4	3.64	t-Butanol	147877	0.9750	0.7958
5	4.46	n-Propanol	197725	1.0000	0.8162

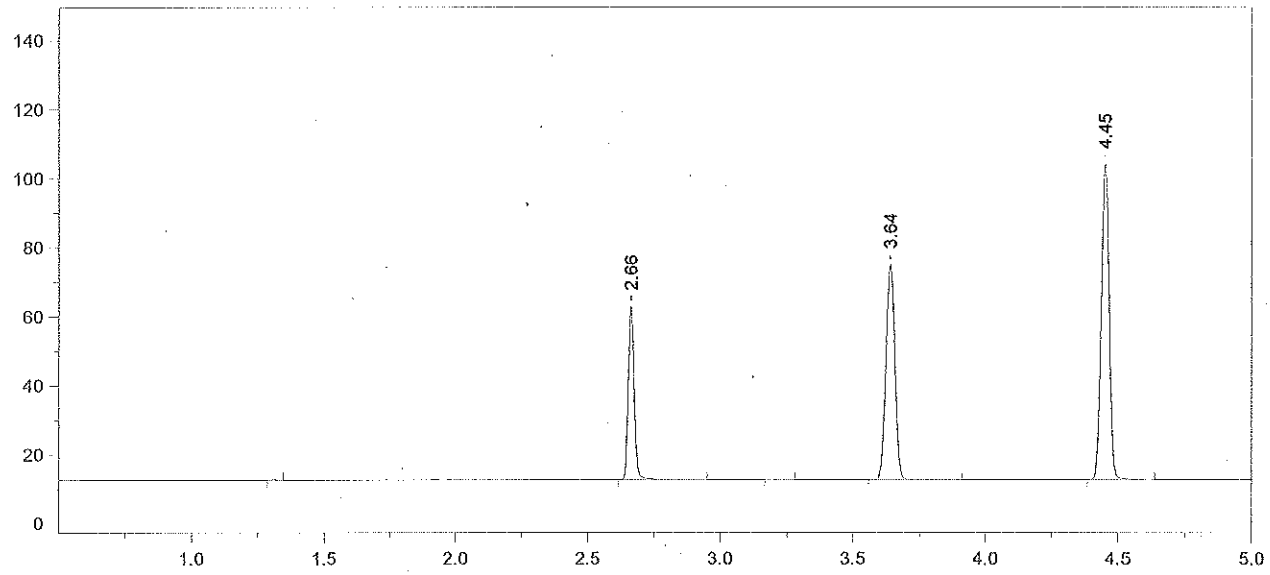


Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/27/2012 Today's Time = 9:44:26 AM
Bound File Name = SIM09262012.0008.RAW
Sample Name = AQ QC
Date Taken = 9/26/2012 11:54:57 AM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 09262012.cal Calibration Version = 1

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	74489	0.0802	0.0654
4	3.64	t-Butanol	148000	1.0291	0.8399
5	4.45	n-Propanol	187485	1.0000	0.8162

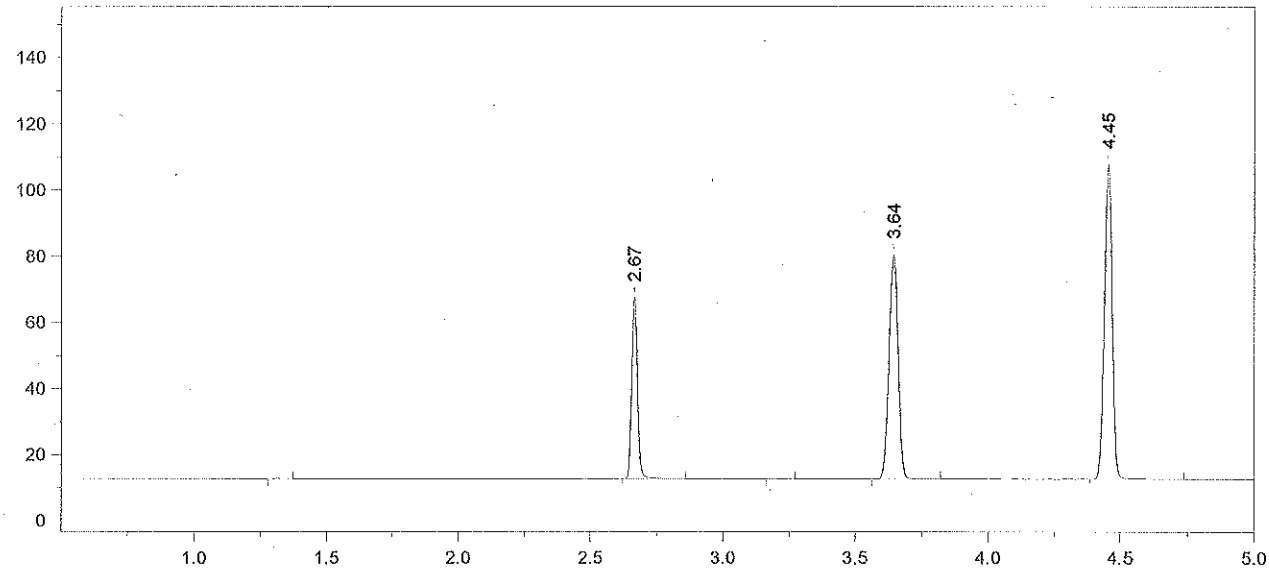
$$\text{AQ QC AVG} = \frac{(0.0802 + 0.0808)}{2} = 0.080$$



Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/27/2012 Today's Time = 9:44:34 AM
Bound File Name = SIM09262012.0009.RAW
Sample Name = AQ QC
Date Taken = 9/26/2012 12:08:42 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 09262012.cal Calibration Version = 1

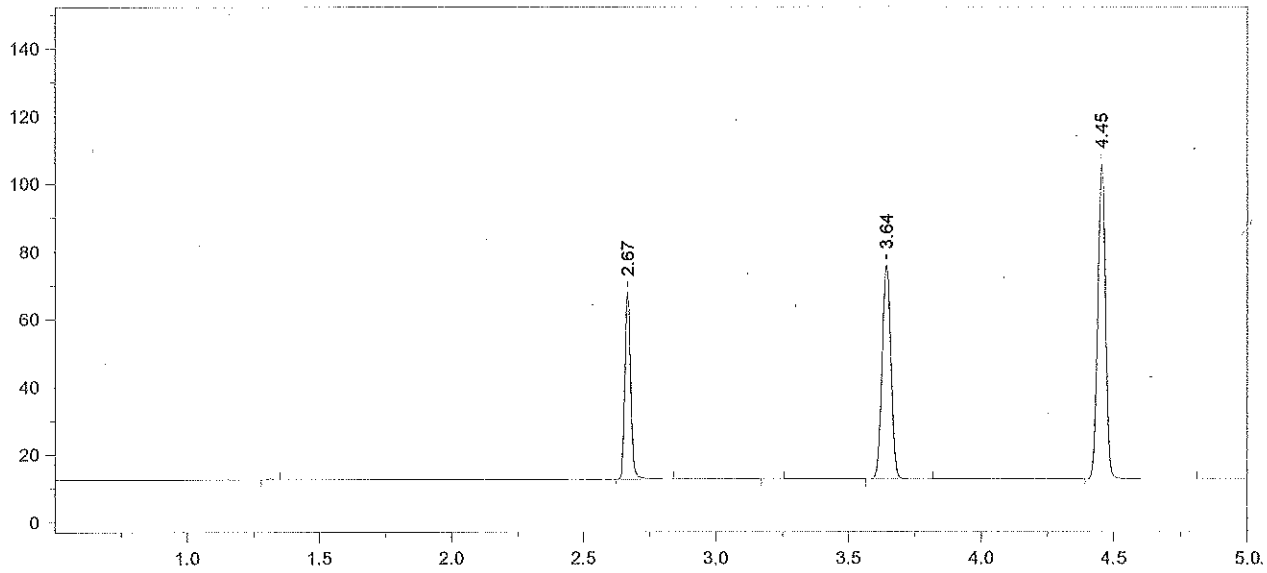
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	77720	0.0808	0.0659
4	3.64	t-Butanol	144534	0.9710	0.7925
5	4.45	n-Propanol	194046	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/27/2012 Today's Time = 9:44:43 AM
Bound File Name = SIM09262012.0010.RAW
Sample Name = CCS
Date Taken = 9/26/2012 12:26:23 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 09262012.cal Calibration Version = 1

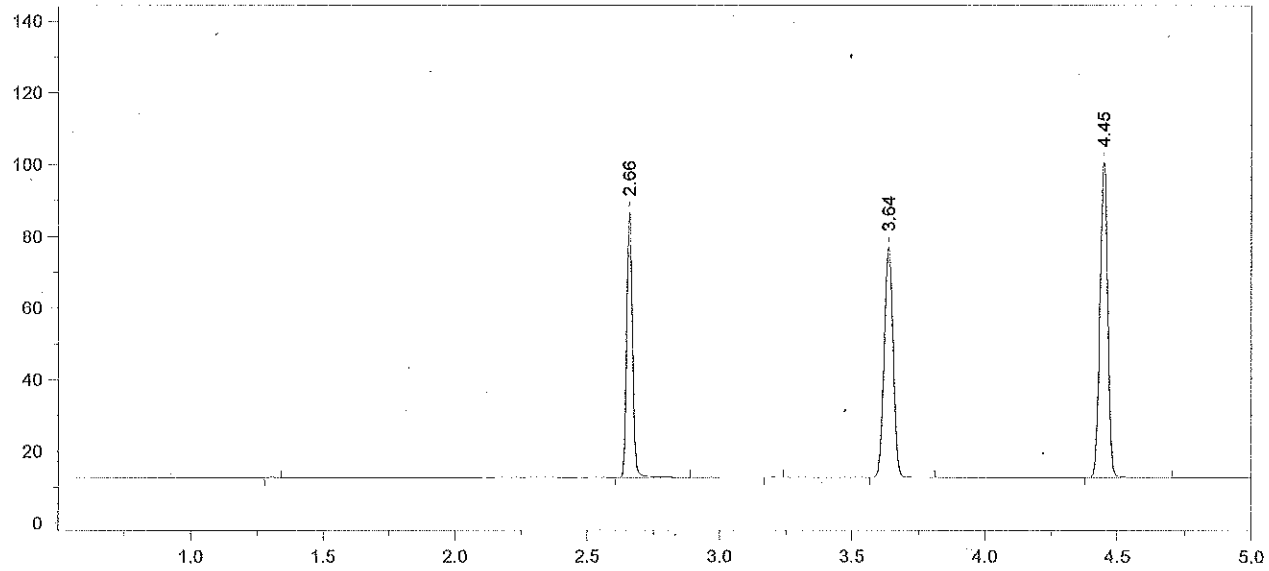
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	84578	0.0850	0.0693
4	3.64	t-Butanol	156602	1.0165	0.8297
5	4.45	n-Propanol	200833	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/27/2012 Today's Time = 9:44:51 AM
Bound File Name = SIM09262012.0011.RAW
Sample Name = CCS
Date Taken = 9/26/2012 12:40:14 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 09262012.cal Calibration Version = 1

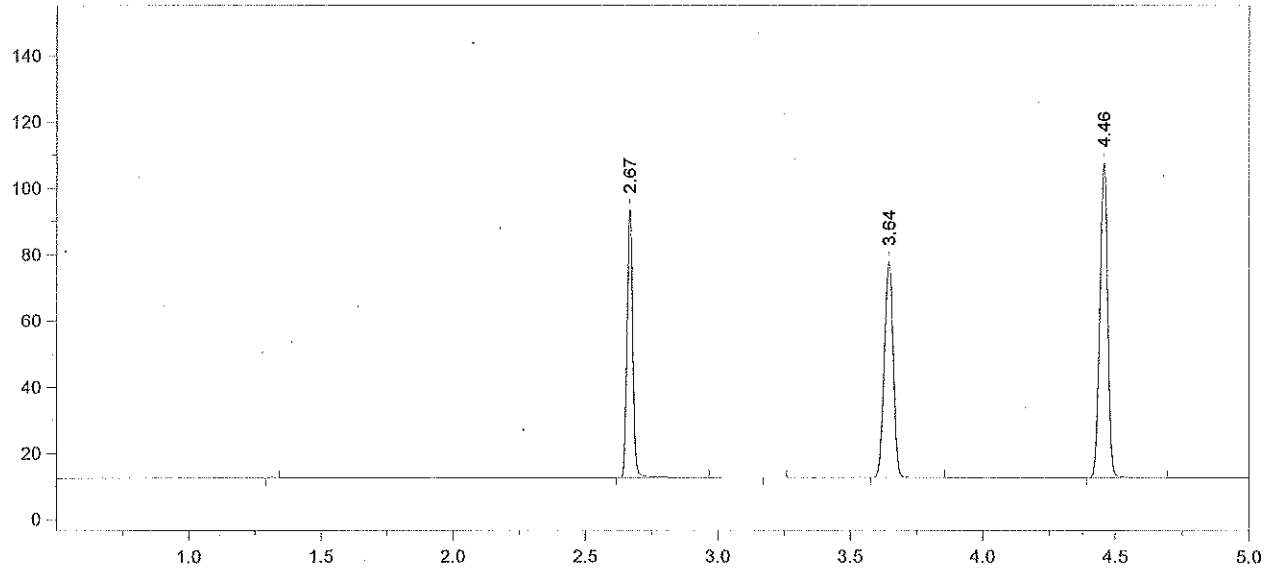
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	84884	0.0869	0.0709
4	3.64	t-Butanol	146140	0.9666	0.7889
5	4.45	n-Propanol	197101	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/27/2012 Today's Time = 9:44:58 AM
Bound File Name = SIM09262012.0012.RAW
Sample Name = 0.10 Ext Std KAW
Date Taken = 9/26/2012 12:57:51 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 09262012.cal Calibration Version = 1

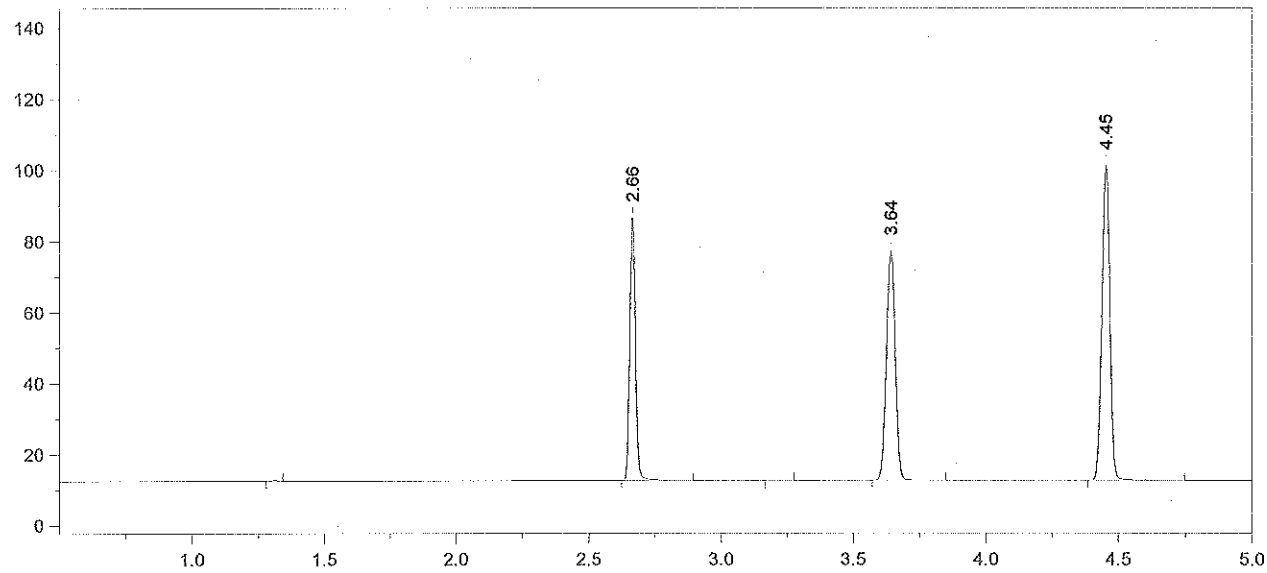
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	113917	0.1223	0.0998
4	3.64	t-Butanol	148313	1.0289	0.8398
5	4.45	n-Propanol	187925	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/27/2012 Today's Time = 9:45:07 AM
Bound File Name = SIM09262012.0013.RAW
Sample Name = 0.10 Ext Std KAW
Date Taken = 9/26/2012 1:11:49 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 09262012.cal Calibration Version = 1

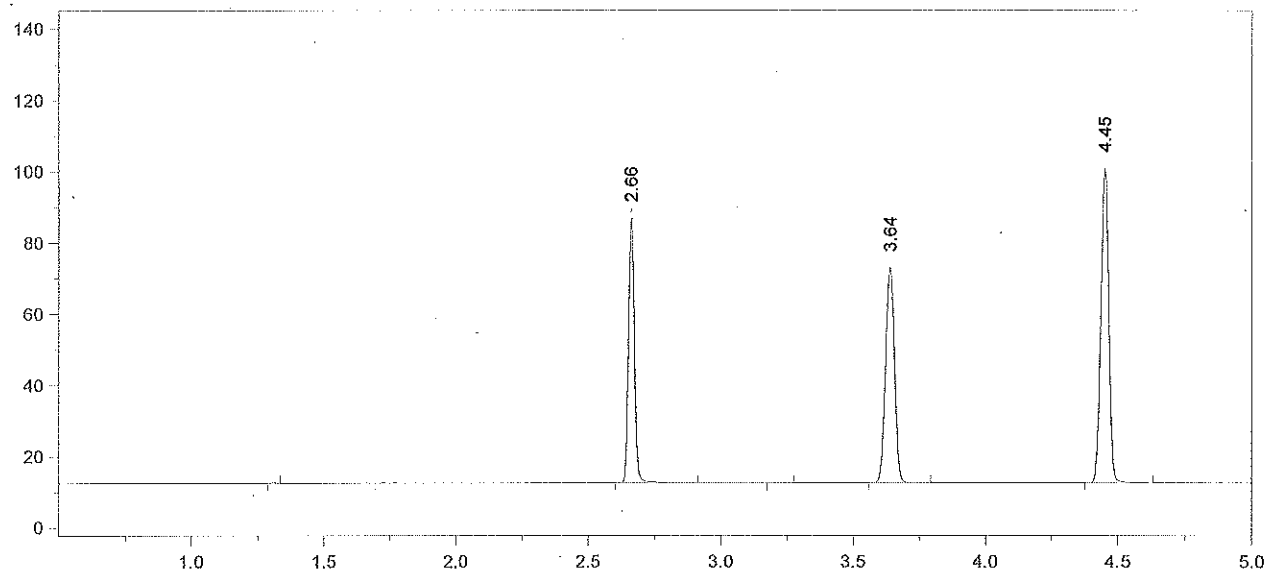
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	124232	0.1243	0.1015
4	3.64	t-Butanol	151092	0.9769	0.7973
5	4.46	n-Propanol	201628	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/27/2012 Today's Time = 9:45:15 AM
Bound File Name = SIM09262012.0014.RAW
Sample Name = 0.10 Ext Std KAW
Date Taken = 9/26/2012 1:29:15 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 09262012.cal Calibration Version = 1

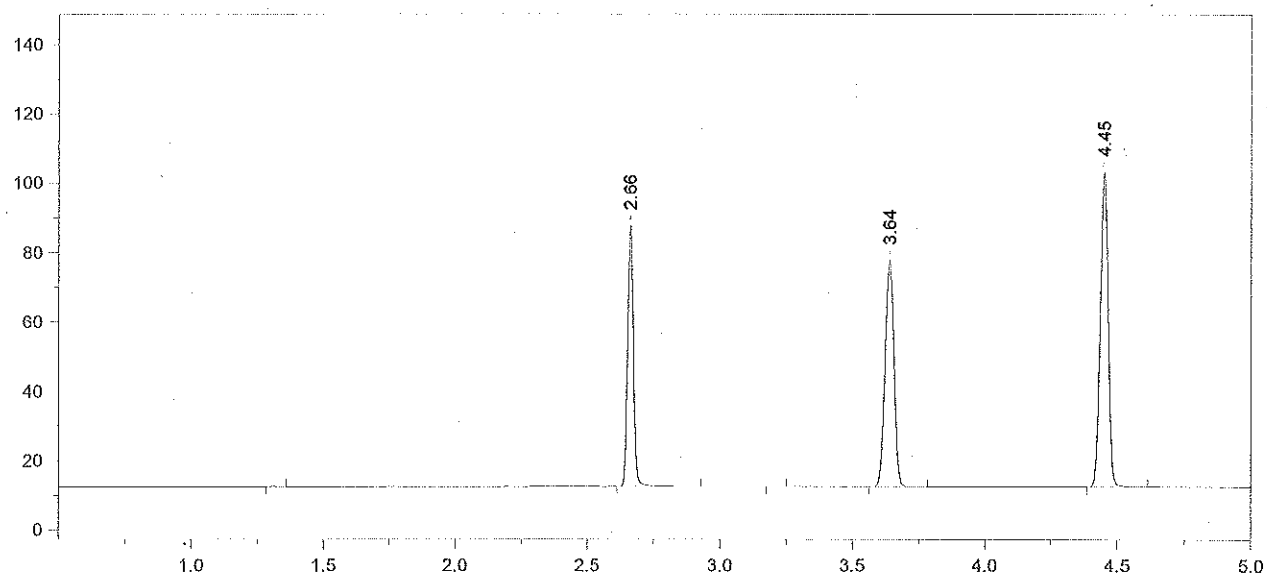
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	112958	0.1211	0.0989
4	3.64	t-Butanol	148740	1.0306	0.8411
5	4.45	n-Propanol	188152	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/27/2012 Today's Time = 9:45:23 AM
Bound File Name = SIM09262012.0015.RAW
Sample Name = 0.10 Ext Std KAW
Date Taken = 9/26/2012 1:43:00 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 09262012.cal Calibration Version = 1

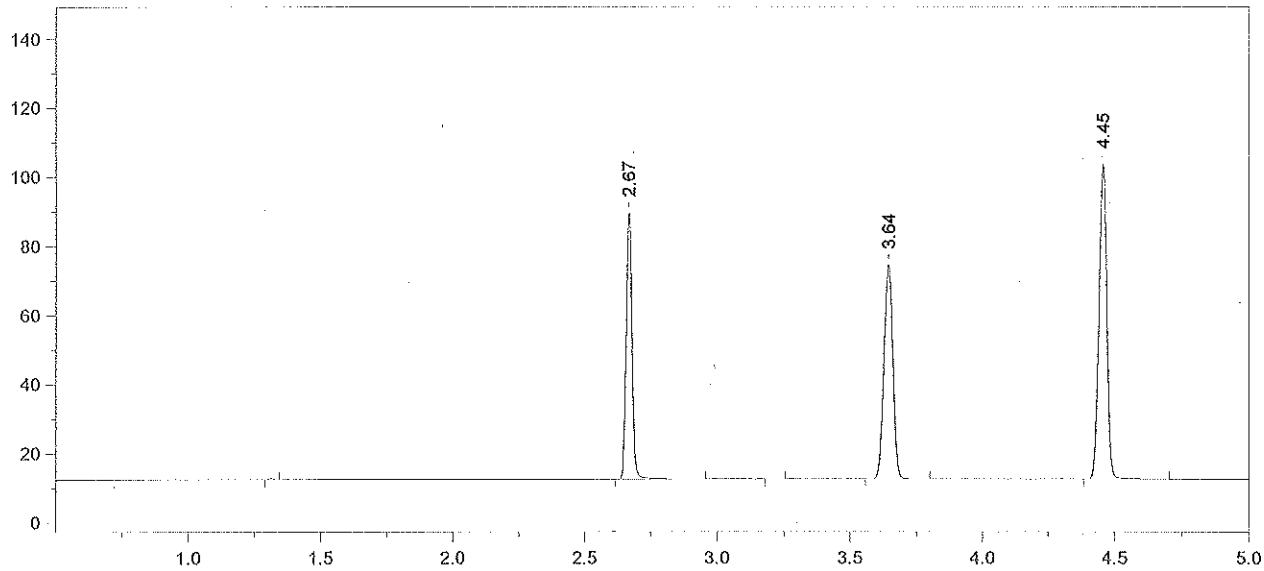
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	114825	0.1242	0.1014
4	3.64	t-Butanol	139380	0.9740	0.7950
5	4.45	n-Propanol	186545	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/27/2012 Today's Time = 9:45:31 AM
Bound File Name = SIM09262012.0016.RAW
Sample Name = 0.10 Ext Std KAW
Date Taken = 9/26/2012 2:00:40 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 09262012.cal Calibration Version = 1

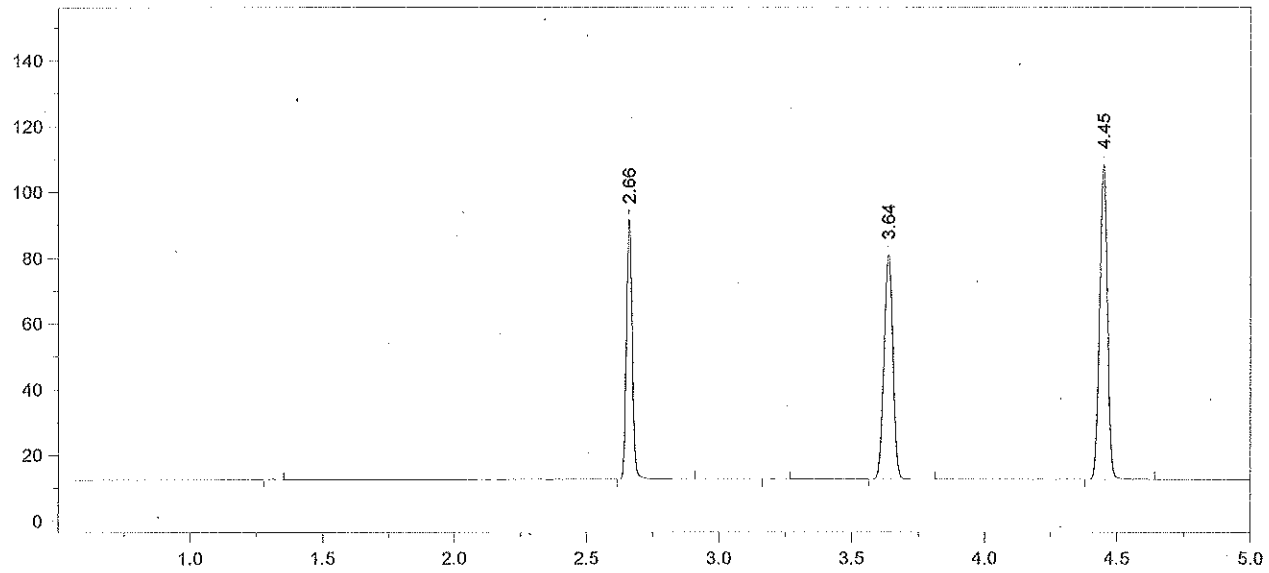
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	115914	0.1223	0.0998
4	3.64	t-Butanol	150276	1.0247	0.8363
5	4.45	n-Propanol	191189	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/27/2012 Today's Time = 9:45:40 AM
Bound File Name = SIM09262012.0017.RAW
Sample Name = 0.10 Ext Std KAW
Date Taken = 9/26/2012 2:13:54 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 09262012.cal Calibration Version = 1

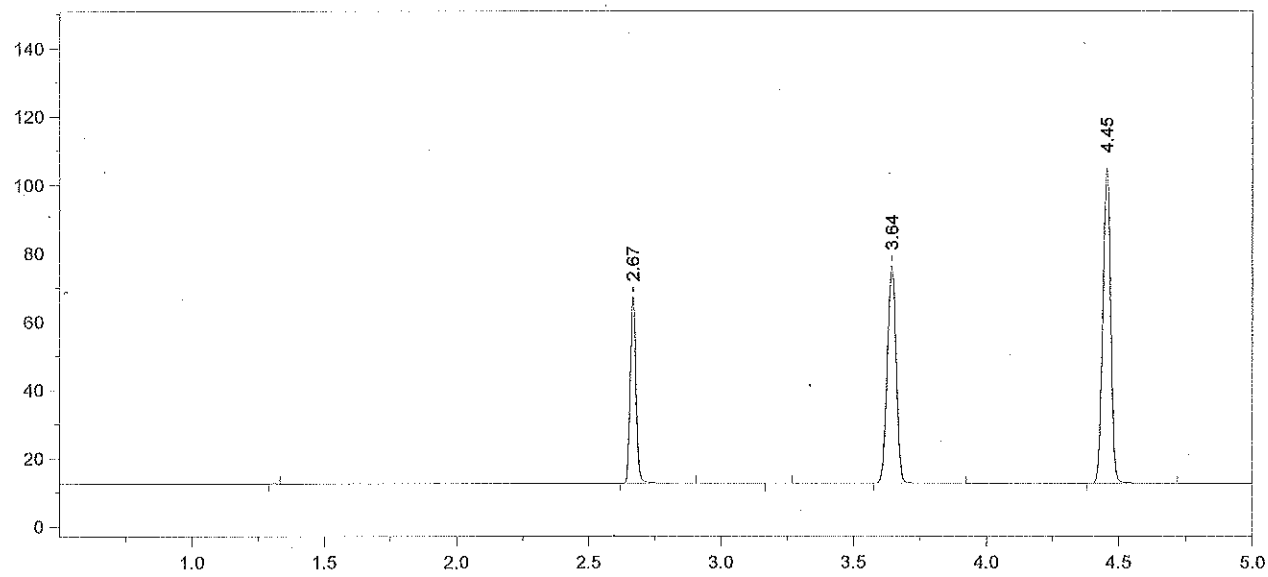
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	118056	0.1234	0.1007
4	3.64	t-Butanol	143165	0.9672	0.7895
5	4.45	n-Propanol	192958	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/27/2012 Today's Time = 9:45:48 AM
Bound File Name = SIM09262012.0018.RAW
Sample Name = 0.10 Ext Std KAW
Date Taken = 9/26/2012 2:32:03 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 09262012.cal Calibration Version = 1

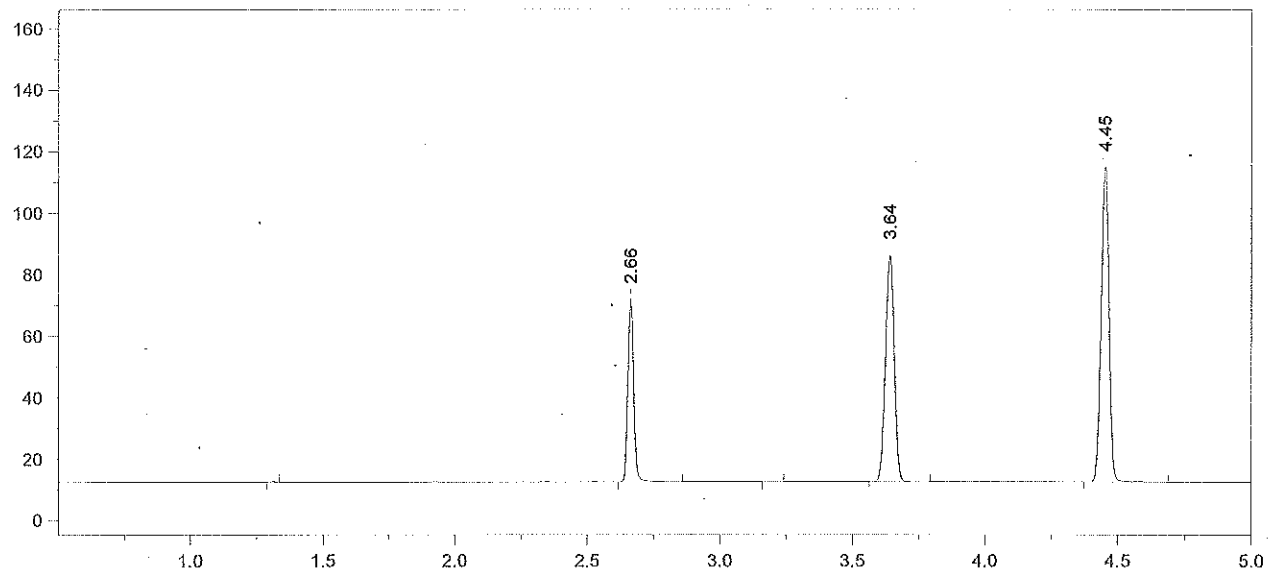
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	121604	0.1218	0.0994
4	3.64	t-Butanol	158010	1.0231	0.8350
5	4.45	n-Propanol	201344	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/27/2012 Today's Time = 9:45:56 AM
Bound File Name = SIM09262012.0019.RAW
Sample Name = CCS
Date Taken = 9/26/2012 2:45:51 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 09262012.cal Calibration Version = 1

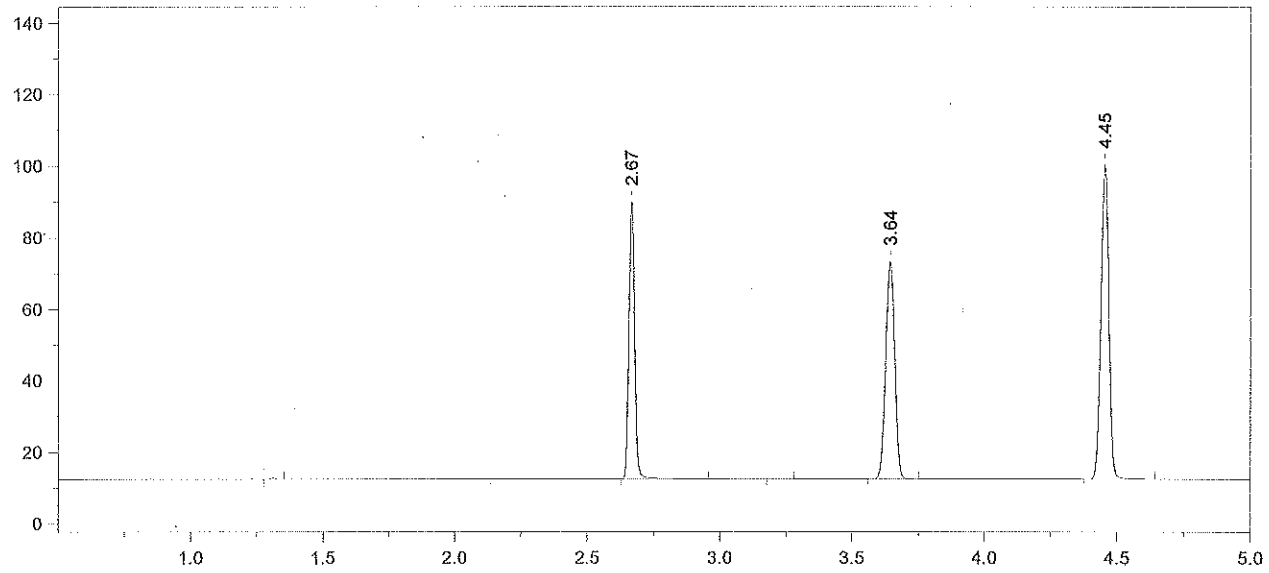
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	83966	0.0864	0.0706
4	3.64	t-Butanol	146832	0.9768	0.7973
5	4.45	n-Propanol	195956	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/27/2012 Today's Time = 9:46:04 AM
Bound File Name = SIM09262012.0020.RAW
Sample Name = CCS
Date Taken = 9/26/2012 3:01:45 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 09262012.cal Calibration Version = 1

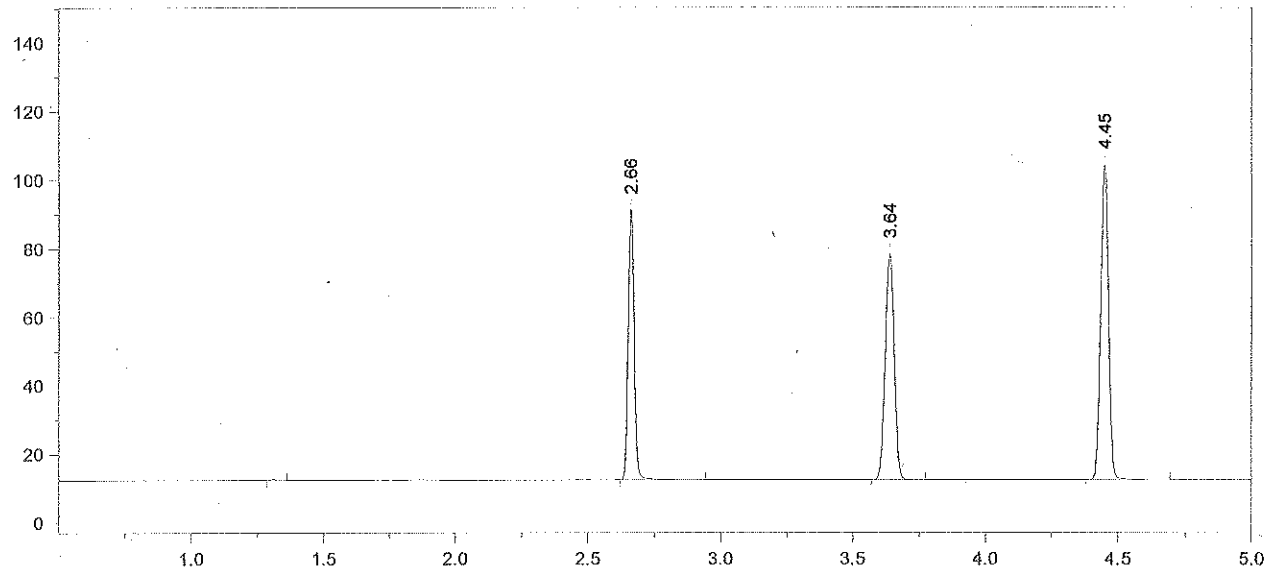
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	91058	0.0844	0.0689
4	3.64	t-Butanol	170056	1.0182	0.8311
5	4.45	n-Propanol	217728	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/27/2012 Today's Time = 9:46:12 AM
Bound File Name = SIM09262012.0021.RAW
Sample Name = 0.10 Ext Std TLC
Date Taken = 9/26/2012 3:17:23 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 09262012.cal Calibration Version = 1

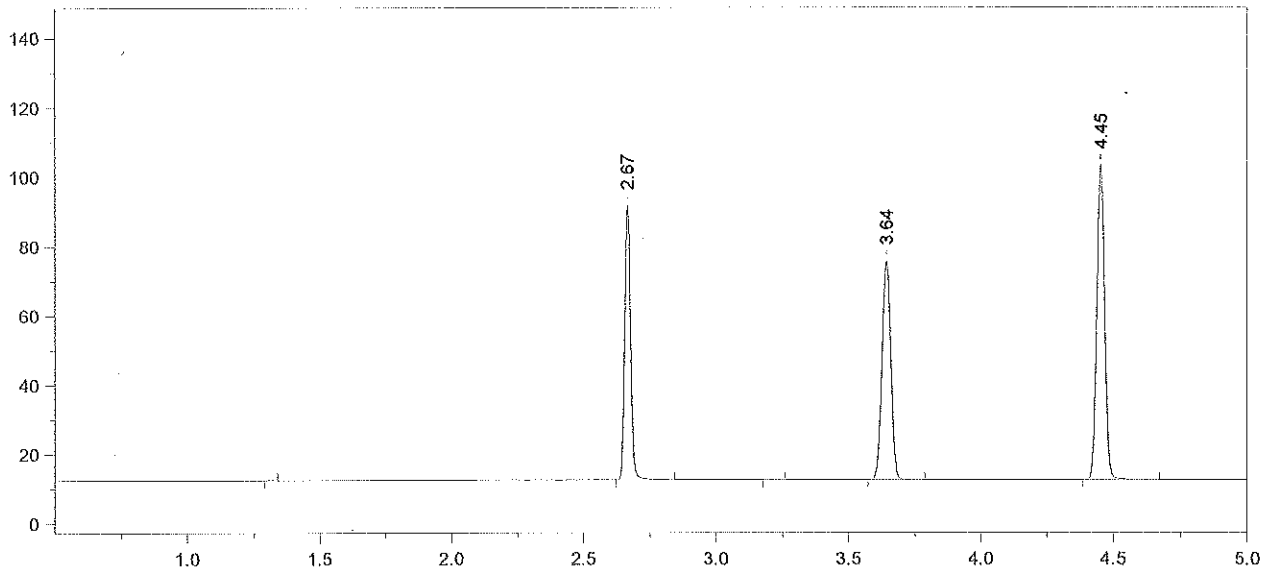
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	118946	0.1284	0.1048
4	3.64	t-Butanol	140122	0.9773	0.7977
5	4.45	n-Propanol	186903	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/27/2012 Today's Time = 9:46:20 AM
Bound File Name = SIM09262012.0022.RAW
Sample Name = 0.10 Ext Std TLC
Date Taken = 9/26/2012 3:31:36 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 09262012.cal Calibration Version = 1

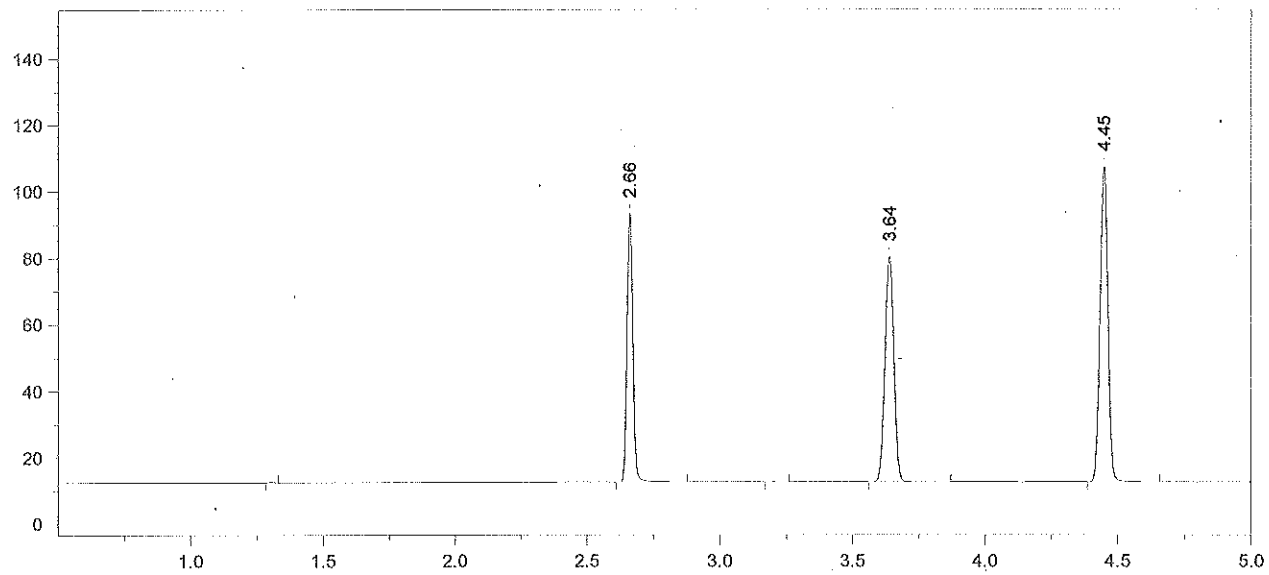
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	122011	0.1259	0.1028
3	3.64	t-Butanol	151939	1.0131	0.8269
4	4.45	n-Propanol	195518	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/27/2012 Today's Time = 9:46:29 AM
Bound File Name = SIM09262012.0023.RAW
Sample Name = 0.10 Ext Std TLC
Date Taken = 9/26/2012 3:47:40 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 09262012.cal Calibration Version = 1

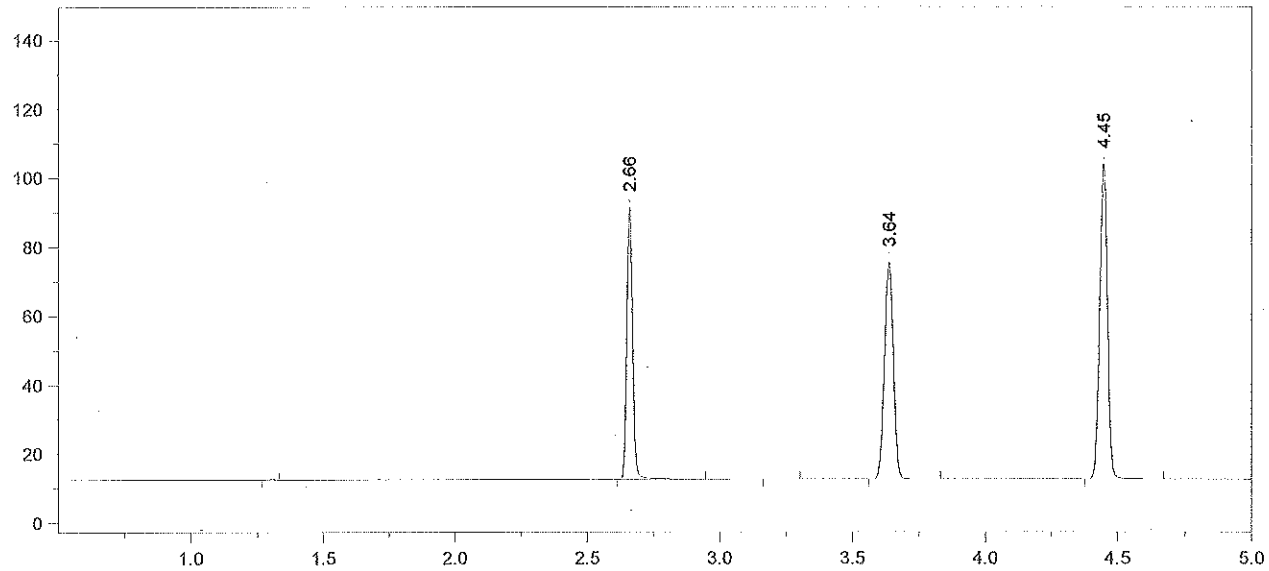
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	121495	0.1271	0.1038
4	3.64	t-Butanol	145182	0.9818	0.8014
5	4.45	n-Propanol	192771	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/27/2012 Today's Time = 9:46:37 AM
Bound File Name = SIM09262012.0024.RAW
Sample Name = 0.10 Ext Std TLC
Date Taken = 9/26/2012 4:03:46 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 09262012.cal Calibration Version = 1

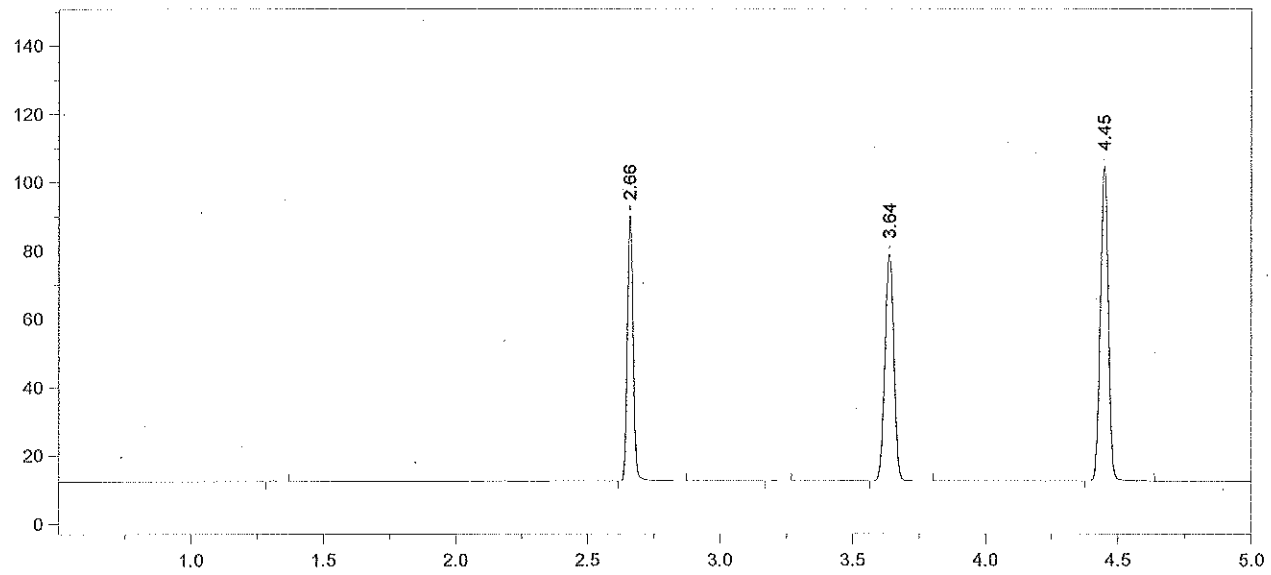
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	123672	0.1245	0.1016
4	3.64	t-Butanol	157186	1.0226	0.8346
5	4.45	n-Propanol	200394	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/27/2012 Today's Time = 9:46:45 AM
Bound File Name = SIM09262012.0025.RAW
Sample Name = 0.10 Ext Std TLC
Date Taken = 9/26/2012 4:18:19 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 09262012.cal Calibration Version = 1

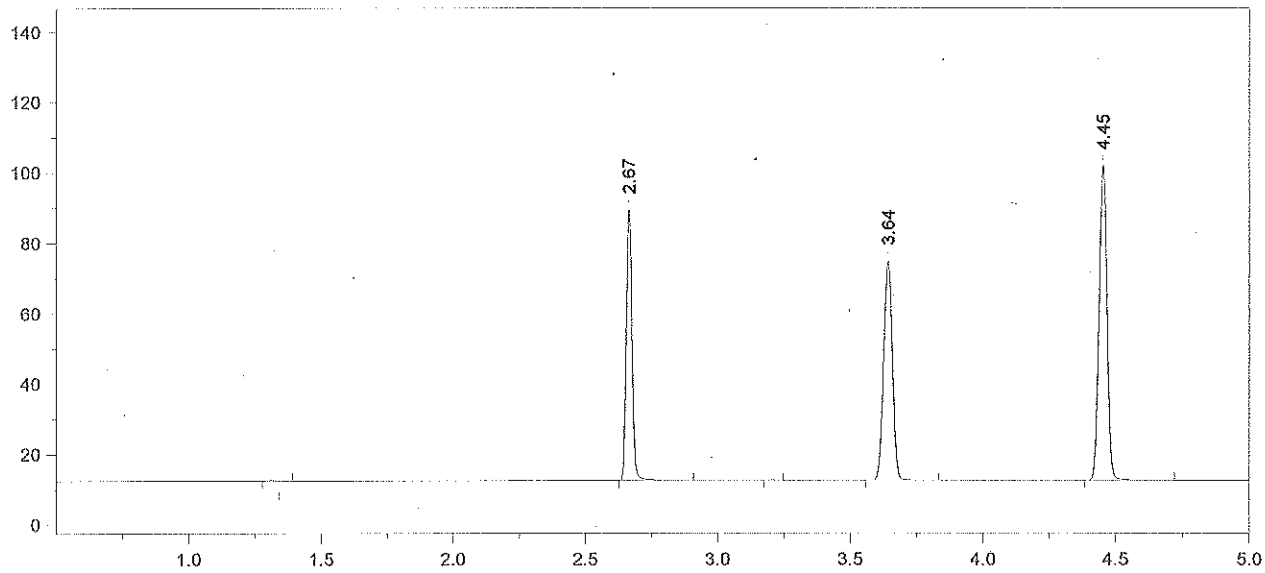
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	121424	0.1270	0.1036
4	3.64	t-Butanol	144487	0.9764	0.7969
5	4.45	n-Propanol	192918	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/27/2012 Today's Time = 9:46:53 AM
Bound File Name = SIM09262012.0026.RAW
Sample Name = 0.10 Ext Std TLC
Date Taken = 9/26/2012 4:35:10 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 09262012.cal Calibration Version = 1

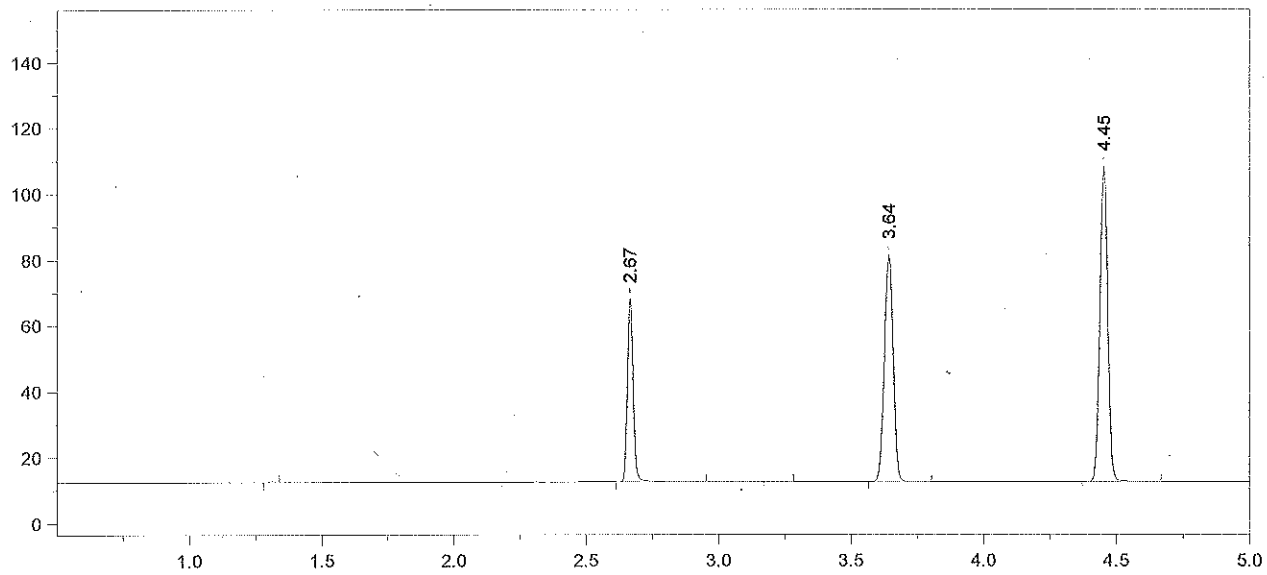
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	119288	0.1236	0.1009
4	3.64	t-Butanol	153951	1.0308	0.8413
5	4.45	n-Propanol	194707	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/27/2012 Today's Time = 9:47:01 AM
Bound File Name = SIM09262012.0027.RAW
Sample Name = 0.10 Ext Std TLC
Date Taken = 9/26/2012 4:49:26 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 09262012.cal Calibration Version = 1

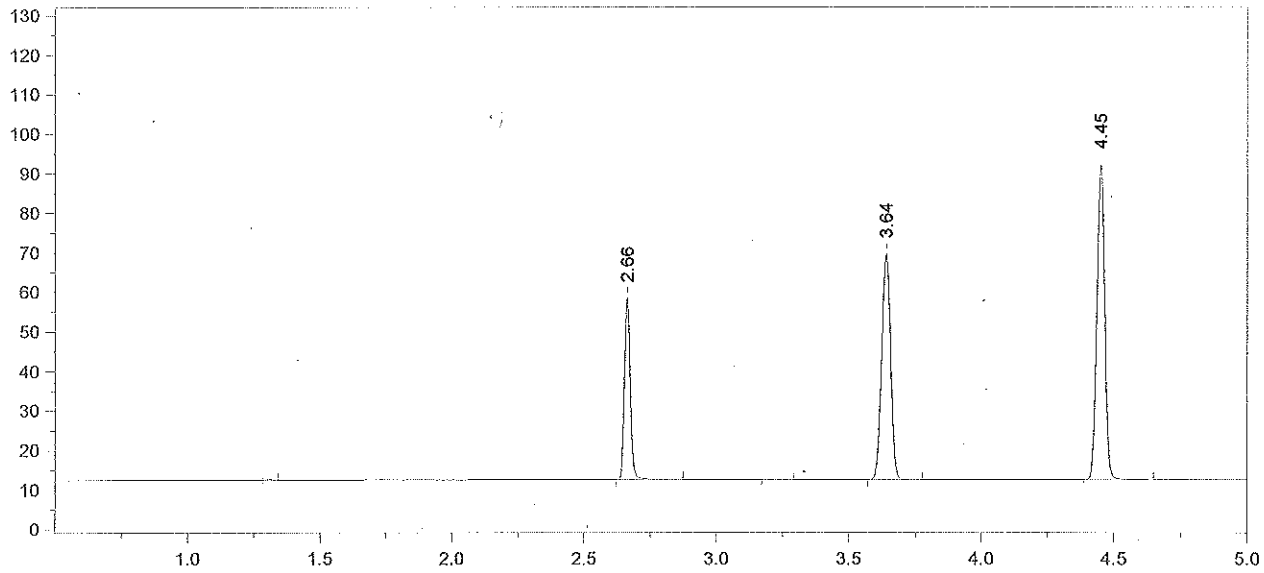
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	119233	0.1267	0.1034
4	3.64	t-Butanol	143796	0.9875	0.8060
5	4.45	n-Propanol	189833	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/27/2012 Today's Time = 9:47:09 AM
Bound File Name = SIM09262012.0028.RAW
Sample Name = CCS
Date Taken = 9/26/2012 5:06:35 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 09262012.cal Calibration Version = 1

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	86220	0.0858	0.0700
4	3.64	t-Butanol	158095	1.0166	0.8298
5	4.45	n-Propanol	202726	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 9/27/2012 Today's Time = 9:47:17 AM
Bound File Name = SIM09262012.0029.RAW
Sample Name = CCS
Date Taken = 9/26/2012 5:20:25 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 09262012.cal Calibration Version = 1

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	71187	0.0854	0.0697
4	3.64	t-Butanol	131396	1.0188	0.8315
5	4.45	n-Propanol	168131	1.0000	0.8162