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 Interference Solution

On 7/10/2012, an interference solution was prepared by Amanda Bolduc for use as a DataMaster Interference Check solution. The solution was prepared per standard laboratory practice and assigned the lot number 12-81-08A1 and an expiration date of 7/10/2013.

On 7/10/2012 and 7/11/2012, the solution was analyzed against calibration SimCal07102012 and SimCal07112012. 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 0.079 g/210L simulated breath ethanol 0.01% vol/vol Acetone concentration and approved for use as a DataMaster Interference Check solution.

Dated at Waterbury, Vermont on Friday, July 13, 2012.

Amanda Bolduc

0.08 EtOH + 0.1% Acetone Interference Solution 1L
Lot # 12-81-08A1
Prepared 7/10/2012 by ALB/KW
Exp 7/10/2013

ALB CAL SimCal 071012
ALB/KW Vials
Analyzed on 7/10/2012

0.079 alb
0.0801
0.0789
0.0801
0.0787
0.0807
0.0791
0.0794 kw
0.0807
0.0798
0.0785
0.0801
0.0788
0.0802

Ave. = 0.0796
Std Dev. = 0.0008
Range = .0785 - .0807

KW/ALB CAL SimCal071112
ALB/KW Vials
Analyzed on 7/11/12

0.0755 alb
0.0791
0.0780
0.0794
0.0782
0.0791
0.0786
0.0786 kw
0.0769
0.0787
0.0770
0.0782
0.0769
0.0786

Ave. = 0.0781
Std Dev. = 0.0011
Range = 0.0755 - 0.0794

Total Values from Both Runs

Average	Mean
0.079	0.0755
0.0801	0.0769
0.0789	
0.0801	0.0770
0.0787	0.0780
0.0807	0.0782
0.0791	
0.0794	0.0785
0.0807	0.0786
0.0798	
0.0785	
0.0801	0.0787
0.0788	
0.0802	0.0788
0.0755	0.0789
0.0791	0.079
0.0780	0.0791
0.0794	
0.0782	
0.0791	0.0794
0.0786	
0.0786	0.0798
0.0769	0.0801
0.0787	
0.0770	
0.0782	0.0802
0.0769	0.0807
0.0786	

Ave. =	0.0788
Std Dev. =	0.0012
Range =	0.0755 - 0.0807
Mean =	0.0787
Mean Std Dev. =	0.0013
RPD (Mean to Ave.)=	0.10%

100µl of Acetone added to 1L of 12-81-08A1
7/13/12 [illegible]

[illegible]
7/13/2012

Headspace Alcohol Analysis Standards Coversheet

Analyst: LWB Date: 7/11/12

Calibration Standards:

Lot ID: ES-05102012 Preparation Date: 05/10/2012 Expiration Date: 08/10/2012

	Standard A	Standard B	Standard C	Standard D	Standard E	Calibration Check
% Ethanol (w/v)	0.006	0.023	0.087	0.211	0.414	
Acceptance Range (± 10%)	0.007	0.025	0.096	0.232	0.455	
	0.005	0.021	0.078	0.190	0.372	

Control Sample:

Sample	Source	Lot number	Target Value	Acceptance Range	
Aqueous	Cerilliant	~~FN111711-01~~	~~0.100~~	~~0.110~~	~~0.090~~
		FN021111-03	0.080	.072	.088

7/11/12

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		0.0055	Y N	
4	Standard B		0.022	Y N	
5	Standard C		0.086	Y N	
6	Standard D		0.208	Y N	
7	Standard E		0.416	Y N	
8	Aqueous QC		0.079	Y N	
9	Aqueous QC		0.079	Y N	$\bar{x}$ = 0.079 ✓ 99%

7/13/2012

File Name: C:\Methods\SimCal 07102012.cal
Version: 8

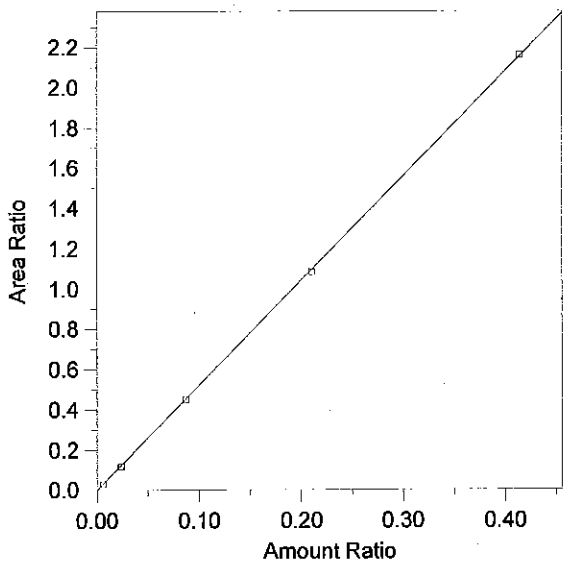
Creator:
Description:
Reason for change:

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

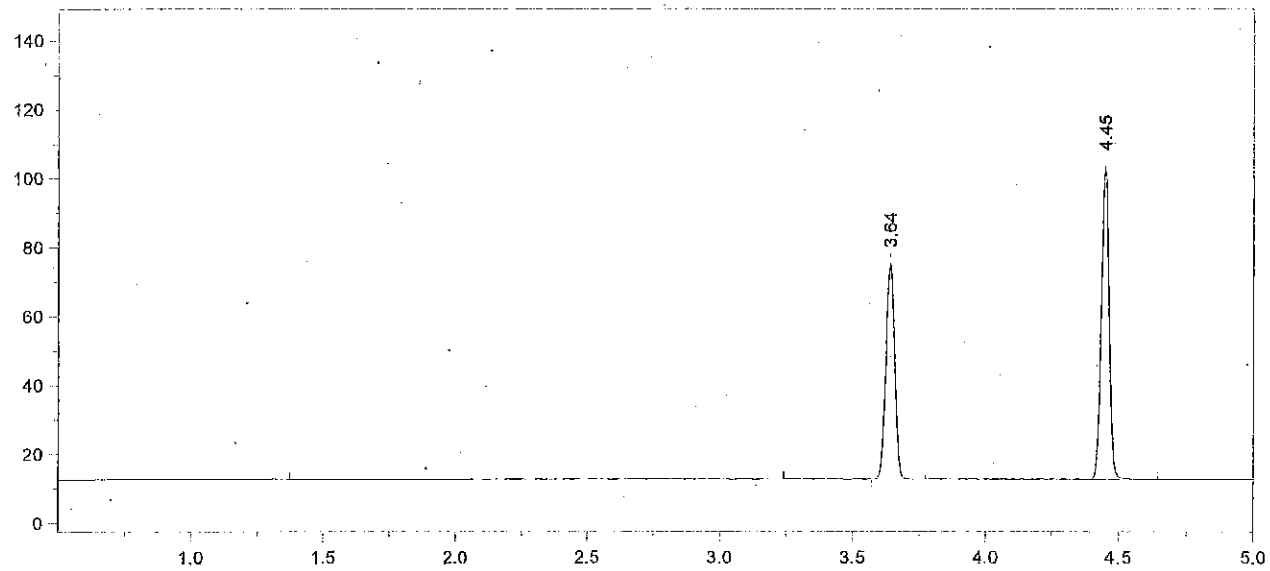
Single peak quantification by area

Y = 5.202225 X + 0

Linear fit with equal weighting, forced to origin

Coefficient of determination:	0.9999182
Average error:	2.664%
Average CF:	5.070673
RSD:	3.252%

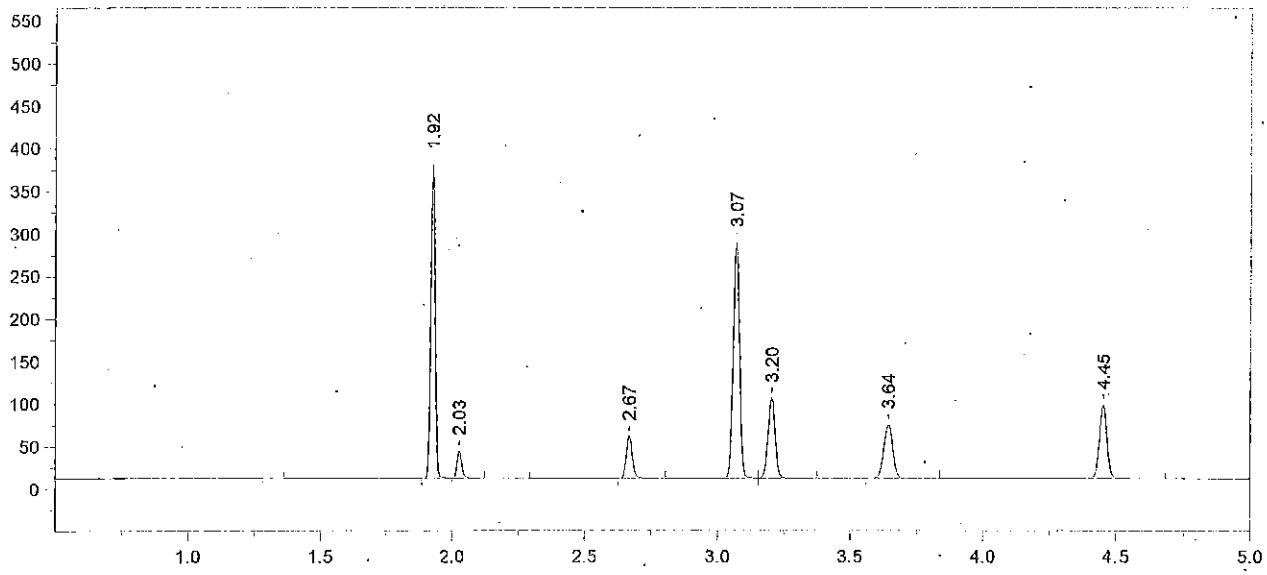
Level	Amount	Response	Cal Factor	Error, %	Amount Ratio	Response Ratio	Source	Date and time
1	(0.081)	(85146)	--	--	0.081	85146	Manual	5/11/2012 8:03:03 AM
2	0.0059	5313.044	900515.9	-7.320	0.0059	2.844629E-02	C:\Alcohol Data\SIM07102012\SIM07102012.0003.BND	7/11/2012 9:22:35 AM
3	0.0235	22009.46	936572.8	-4.113	0.0235	0.1172245	C:\Alcohol Data\SIM07102012\SIM07102012.0004.BND	7/11/2012 9:22:43 AM
4	0.0869	81310.21	935675.6	-0.362	0.0869	0.4504374	C:\Alcohol Data\SIM07102012\SIM07102012.0005.BND	7/11/2012 9:22:49 AM
5	0.2107	203151.5	964174.2	-1.186	0.2107	1.083107	C:\Alcohol Data\SIM07102012\SIM07102012.0006.BND	7/11/2012 9:22:55 AM
6	0.4144	406980.7	982096.3	0.337	0.4144	2.163073	C:\Alcohol Data\SIM07102012\SIM07102012.0007.BND	7/11/2012 9:23:01 AM



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012 Today's Time = 9:26:27 AM
Bound File Name = SIM07102012.0001.RAW
Sample Name = Blank
Date Taken = 7/10/2012 2:37:28 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal Calibration Version = 8

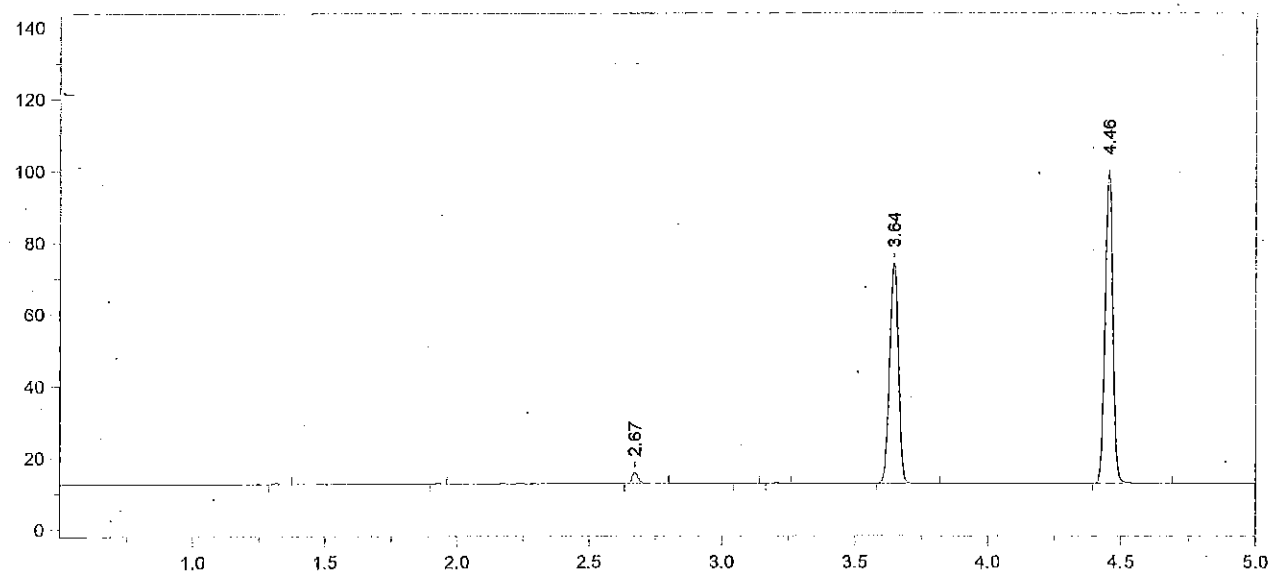
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	3.64	t-Butanol	144062	0.9639	0.7867
4	4.45	n-Propanol	192599	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012 Today's Time = 9:26:36 AM
Bound File Name = SIM07102012.0002.RAW
Sample Name = TMX
Date Taken = 7/10/2012 2:54:41 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal Calibration Version = 8

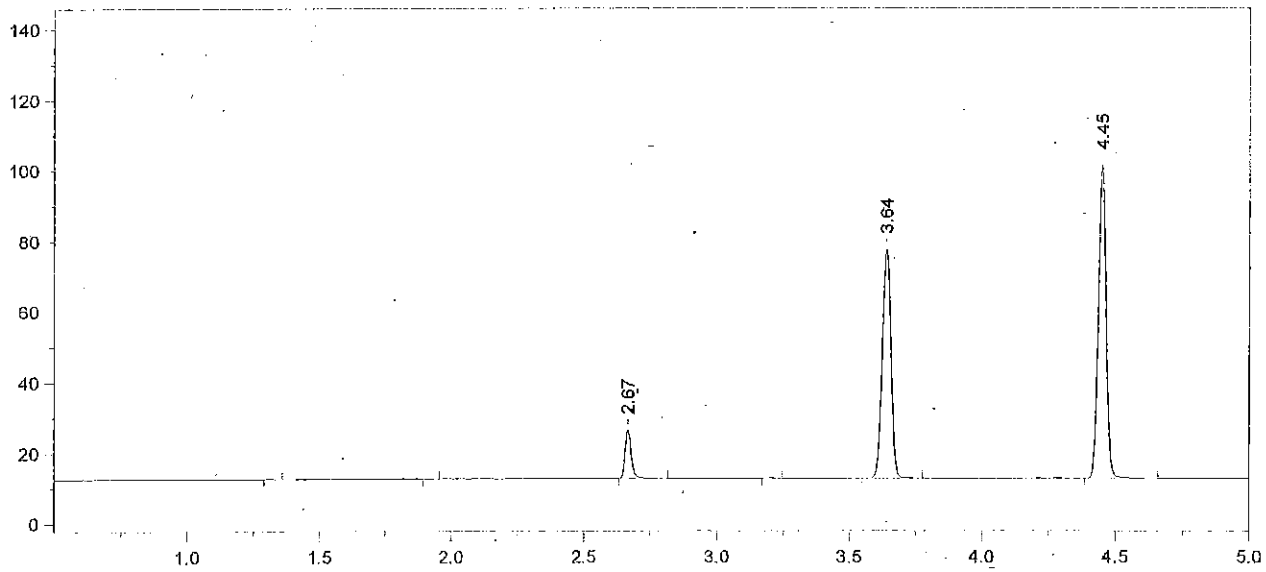
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	1.92	Acetaldehyde	423591	0.0900	0.0735
3	2.03	Methanol	39180	0.0920	0.0751
4	2.67	Ethanol	75638	0.0793	0.0647
5	3.07	Acetone	467176	0.0920	0.0751
6	3.20	Isopropanol	175480	0.1230	0.1004
7	3.64	t-Butanol	145293	1.0208	0.8332
8	4.45	n-Propanol	183407	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012 Today's Time = 9:26:47 AM
Bound File Name = SIM07102012.0003.RAW
Sample Name = STD A
Date Taken = 7/10/2012 3:08:34 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal Calibration Version = 8

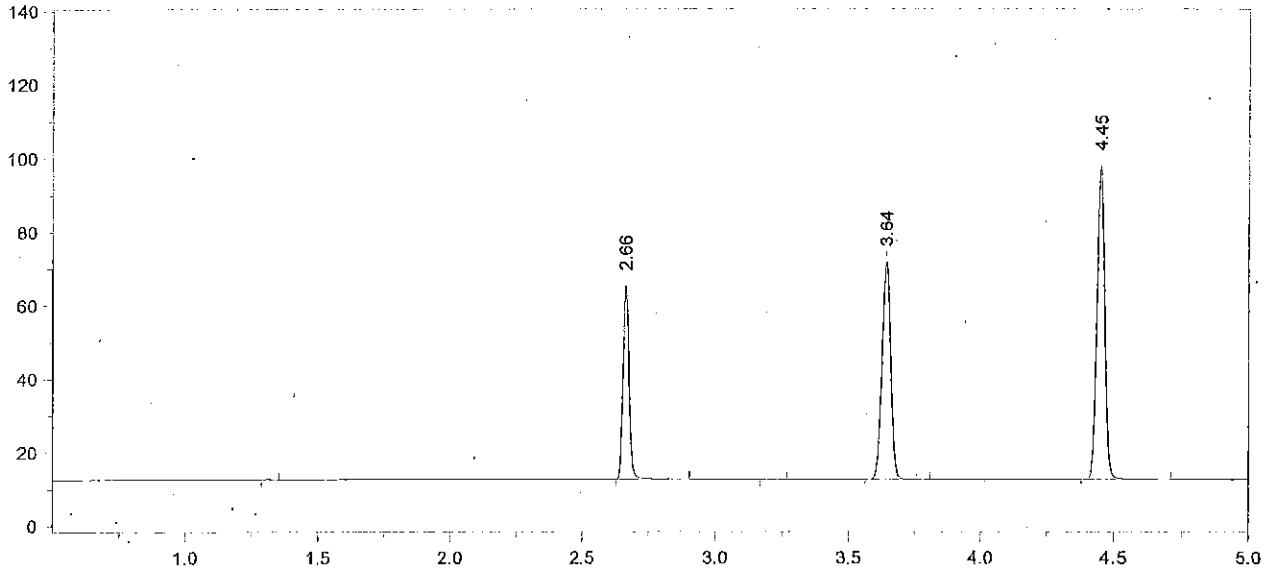
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.67	Ethanol	05313	0.0055	0.0045
6	3.64	t-Butanol	142252	0.9814	0.8011
7	4.46	n-Propanol	186775	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012
Today's Time = 9:26:57 AM
Bound File Name = SIM07102012.0004.RAW
Sample Name = STD B
Date Taken = 7/10/2012 3:26:06 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal
Calibration Version = 8

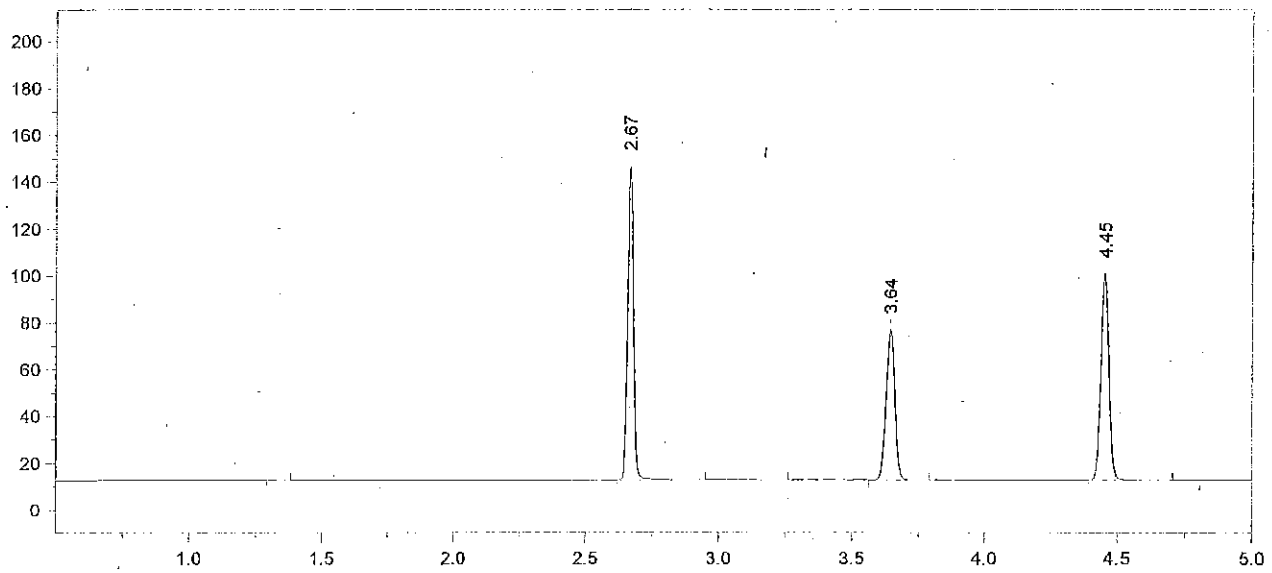
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.67	Ethanol	22009	0.0225	0.0184
5	3.64	t-Butanol	149855	1.0285	0.8395
6	4.45	n-Propanol	187755	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012 Today's Time = 9:27:05 AM
Bound File Name = SIM07102012.0005.RAW
Sample Name = STD C
Date Taken = 7/10/2012 3:39:58 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal Calibration Version = 8

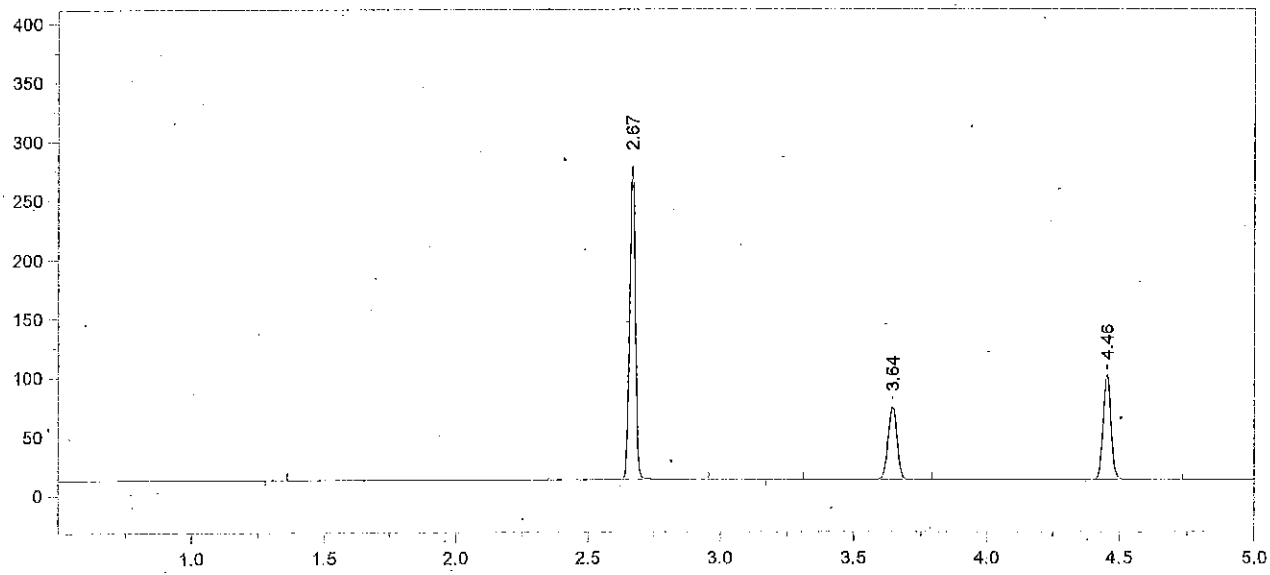
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	81310	0.0866	0.0707
4	3.64	t-Butanol	137358	0.9806	0.8003
5	4.45	n-Propanol	180514	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012 Today's Time = 9:27:13 AM
Bound File Name = SIM07102012.0006.RAW
Sample Name = STD D
Date Taken = 7/10/2012 3:57:32 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal Calibration Version = 8

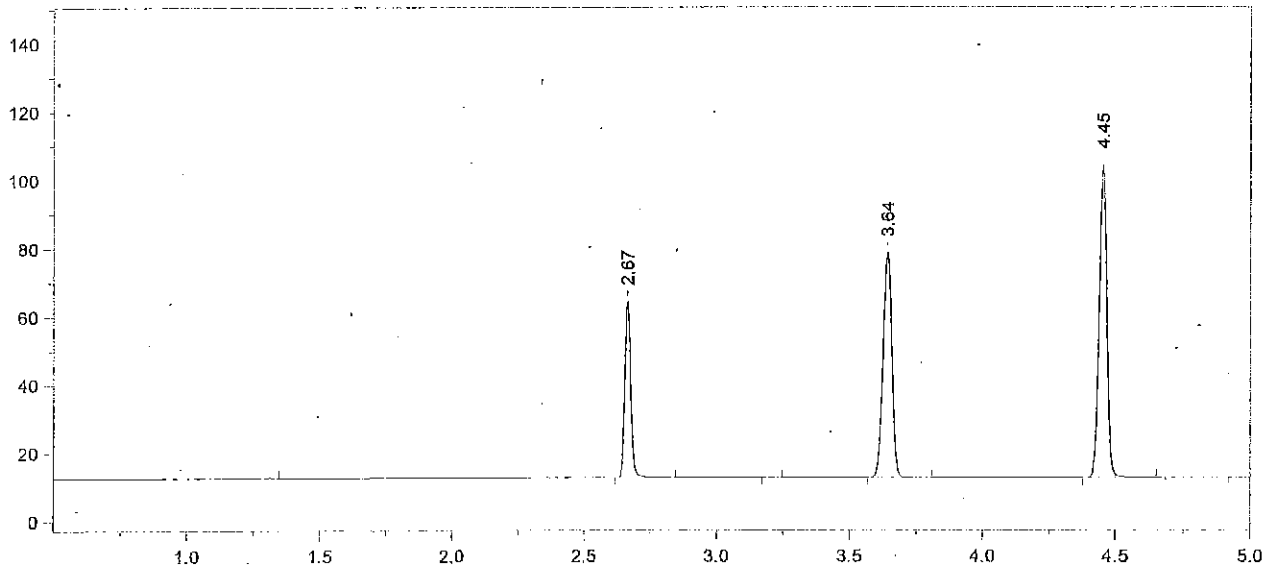
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	203152	0.2082	0.1699
4	3.64	t-Butanol	148245	1.0185	0.8313
5	4.45	n-Propanol	187564	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012
Today's Time = 9:27:23 AM
Bound File Name = SIM07102012.0007.RAW
Sample Name = STD E
Date Taken = 7/10/2012 4:10:45 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal
Calibration Version = 8

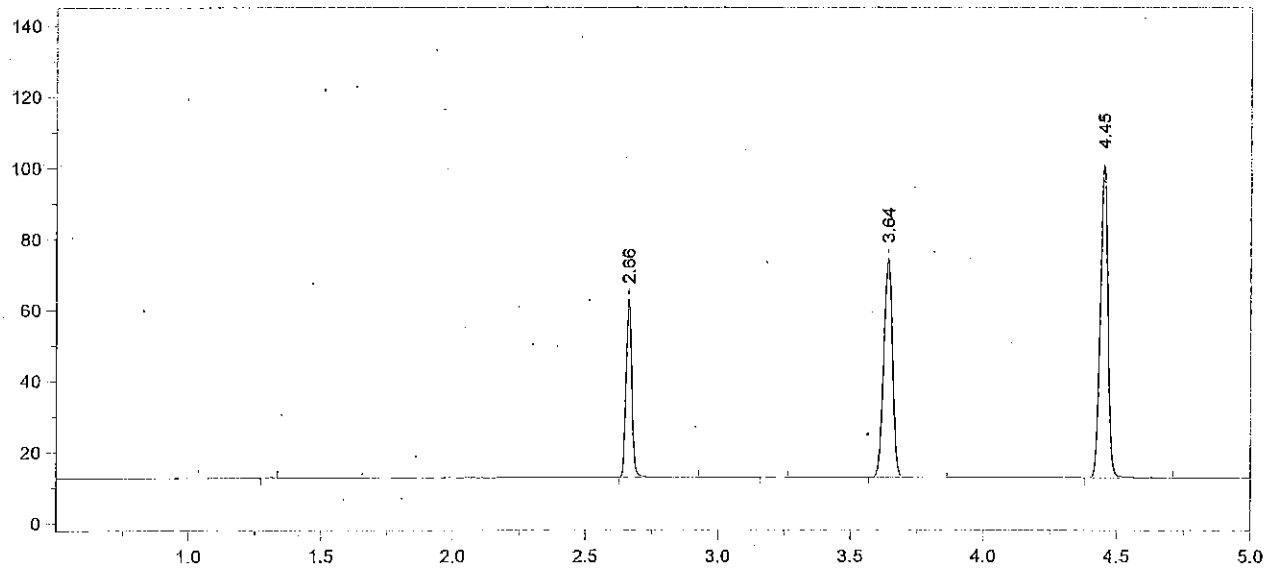
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	406981	0.4158	0.3394
4	3.64	t-Butanol	141652	0.9702	0.7919
5	4.46	n-Propanol	188149	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012
Today's Time = 9:27:32 AM
Bound File Name = SIM07102012.0008.RAW
Sample Name = AQ QC
Date Taken = 7/10/2012 4:28:59 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal
Calibration Version = 8

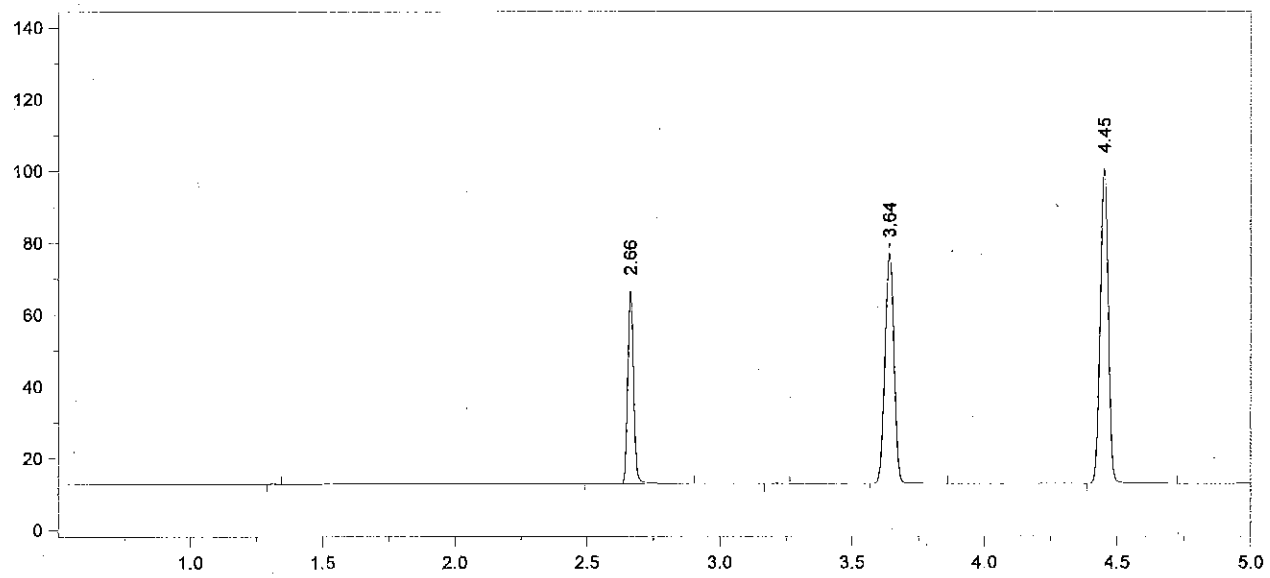
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	80009	0.0792	0.0646
4	3.64	t-Butanol	152690	1.0130	0.8268
5	4.45	n-Propanol	194231	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012 Today's Time = 9:27:42 AM
Bound File Name = SIM07102012.0009.RAW
Sample Name = AQ QC
Date Taken = 7/10/2012 4:42:42 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal Calibration Version = 8

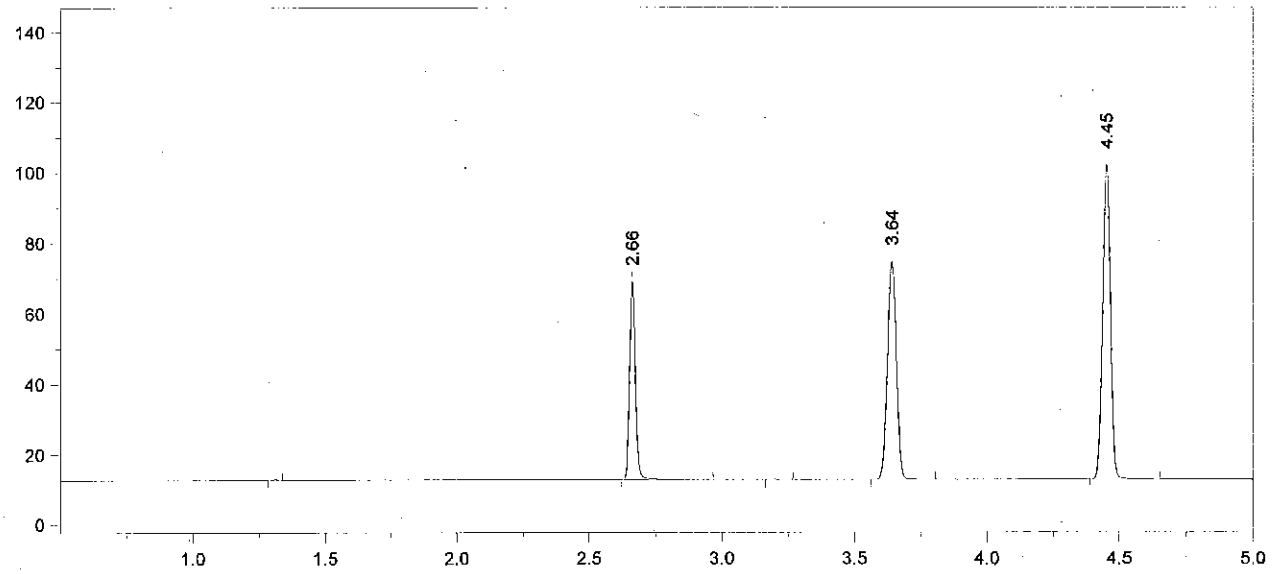
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	77430	0.0791	0.0646
4	3.64	t-Butanol	142892	0.9791	0.7991
5	4.45	n-Propanol	188063	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012 Today's Time = 9:27:49 AM
Bound File Name = SIM07102012.0010.RAW
Sample Name = CCS
Date Taken = 7/10/2012 5:00:24 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal Calibration Version = 8

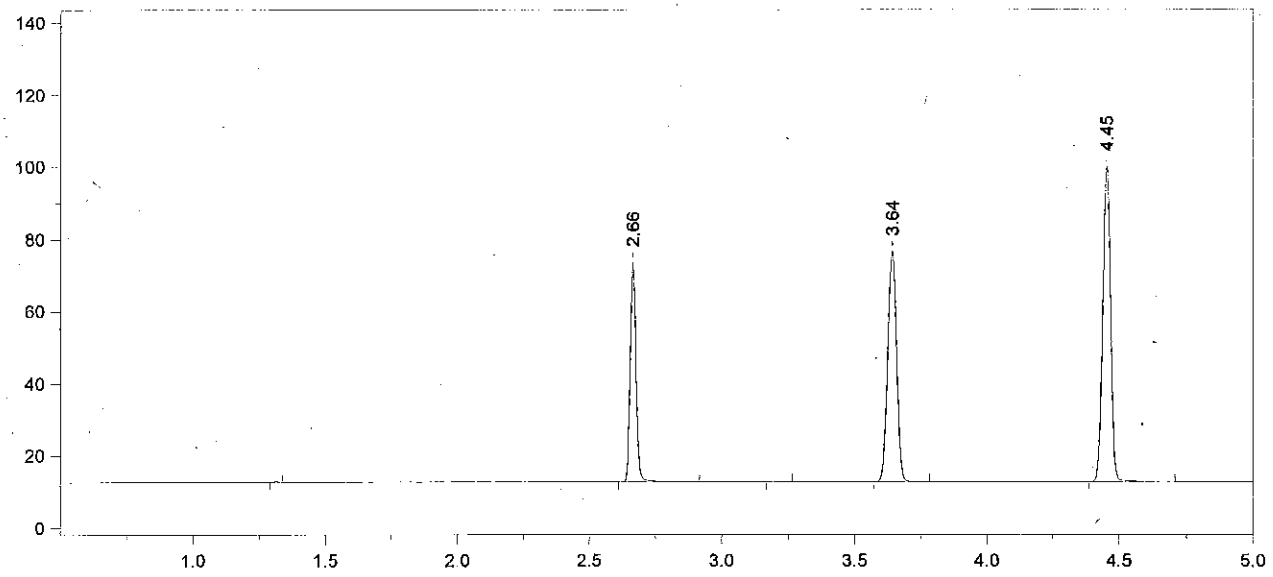
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	83047	0.0855	0.0698
4	3.64	t-Butanol	148348	1.0238	0.8357
5	4.45	n-Propanol	186712	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012 Today's Time = 9:27:58 AM
Bound File Name = SIM07102012.0011.RAW
Sample Name = CCS
Date Taken = 7/10/2012 5:14:19 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal Calibration Version = 8

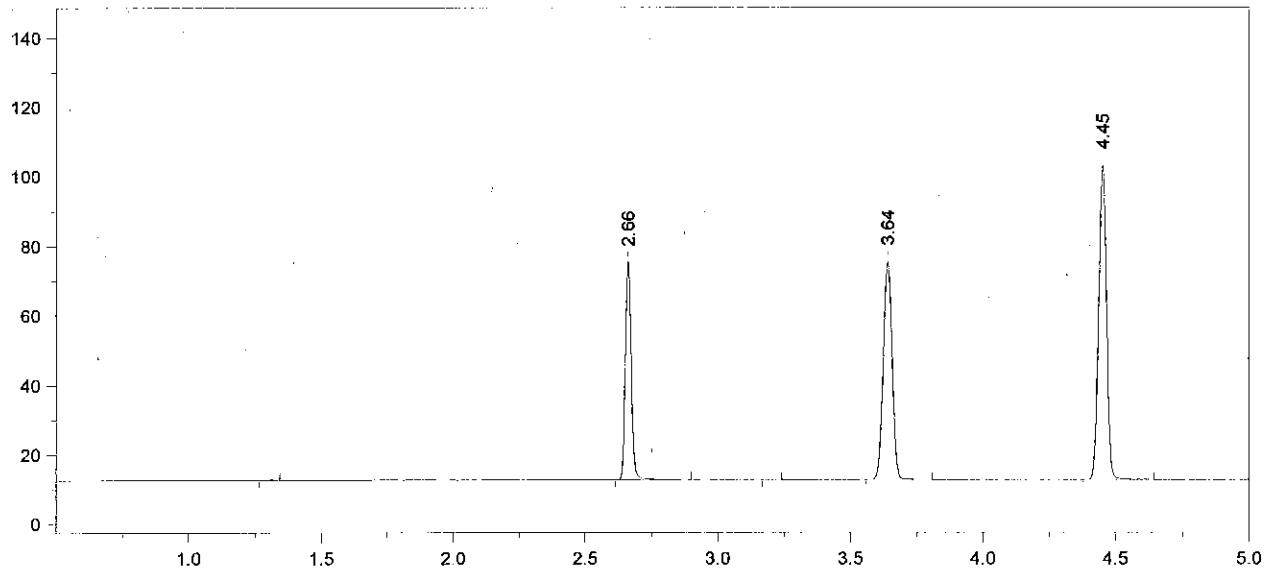
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	86773	0.0886	0.0723
4	3.64	t-Butanol	142797	0.9769	0.7974
5	4.45	n-Propanol	188353	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012 Today's Time = 9:28:06 AM
Bound File Name = SIM07102012.0012.RAW
Sample Name = .08 ALB
Date Taken = 7/10/2012 5:31:48 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal Calibration Version = 8

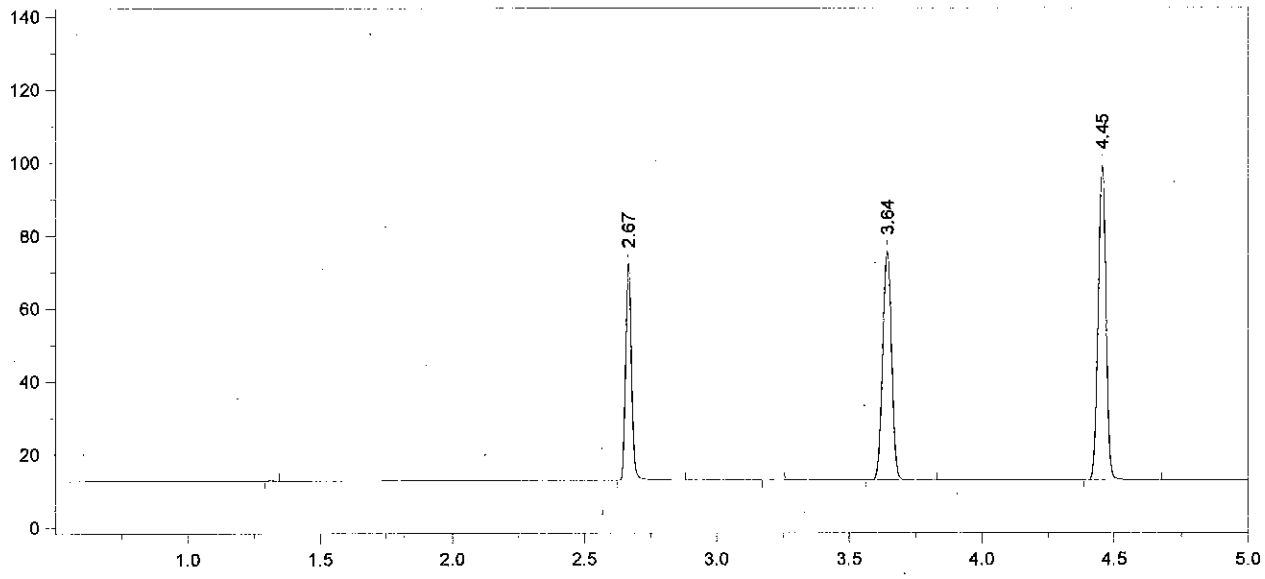
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	93410	0.0968	0.0790
4	3.64	t-Butanol	147505	1.0251	0.8367
5	4.45	n-Propanol	185421	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012 Today's Time = 9:28:14 AM
Bound File Name = SIM07102012.0013.RAW
Sample Name = .08 ALB
Date Taken = 7/10/2012 5:45:01 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal Calibration Version = 8

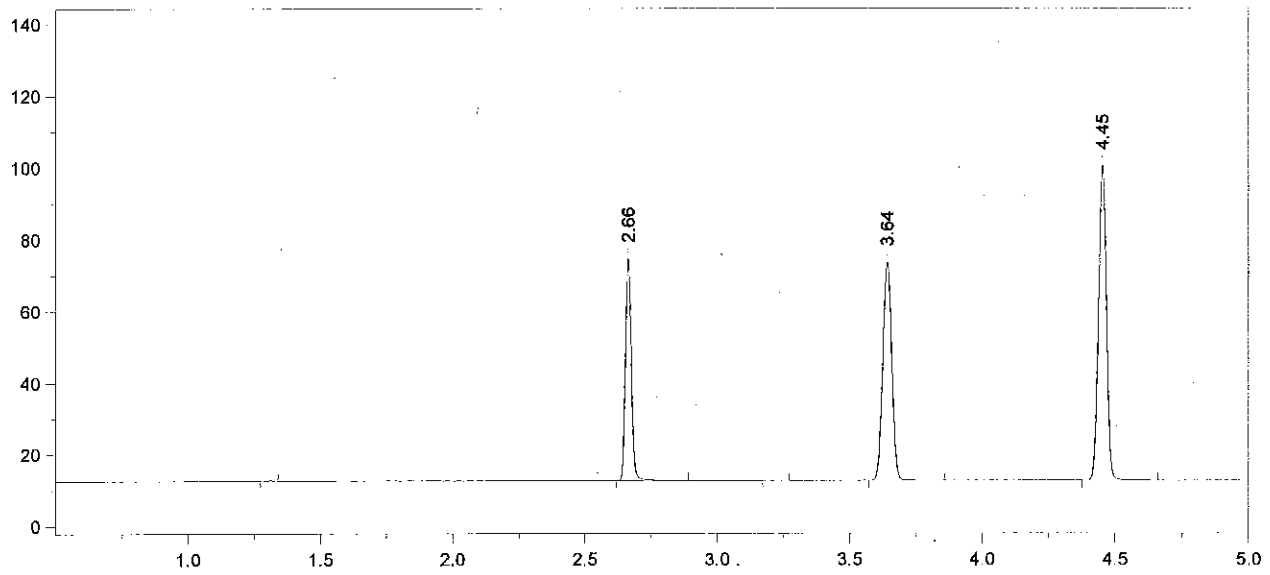
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	97593	0.0982	0.0801
4	3.64	t-Butanol	145294	0.9796	0.7995
5	4.45	n-Propanol	191132	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012 Today's Time = 9:28:25 AM
Bound File Name = SIM07102012.0014.RAW
Sample Name = .08 ALB
Date Taken = 7/10/2012 6:03:12 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal Calibration Version = 8

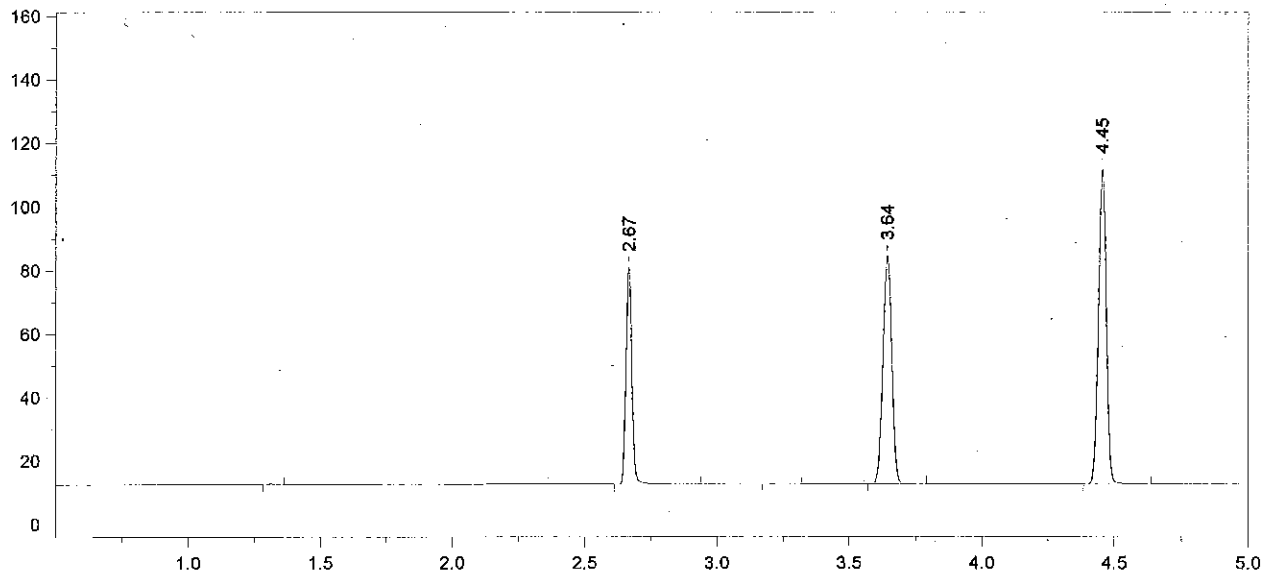
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	91799	0.0966	0.0789
4	3.64	t-Butanol	145283	1.0253	0.8368
5	4.45	n-Propanol	182602	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012 Today's Time = 9:28:35 AM
Bound File Name = SIM07102012.0015.RAW
Sample Name = .08 ALB
Date Taken = 7/10/2012 6:16:28 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal Calibration Version = 8

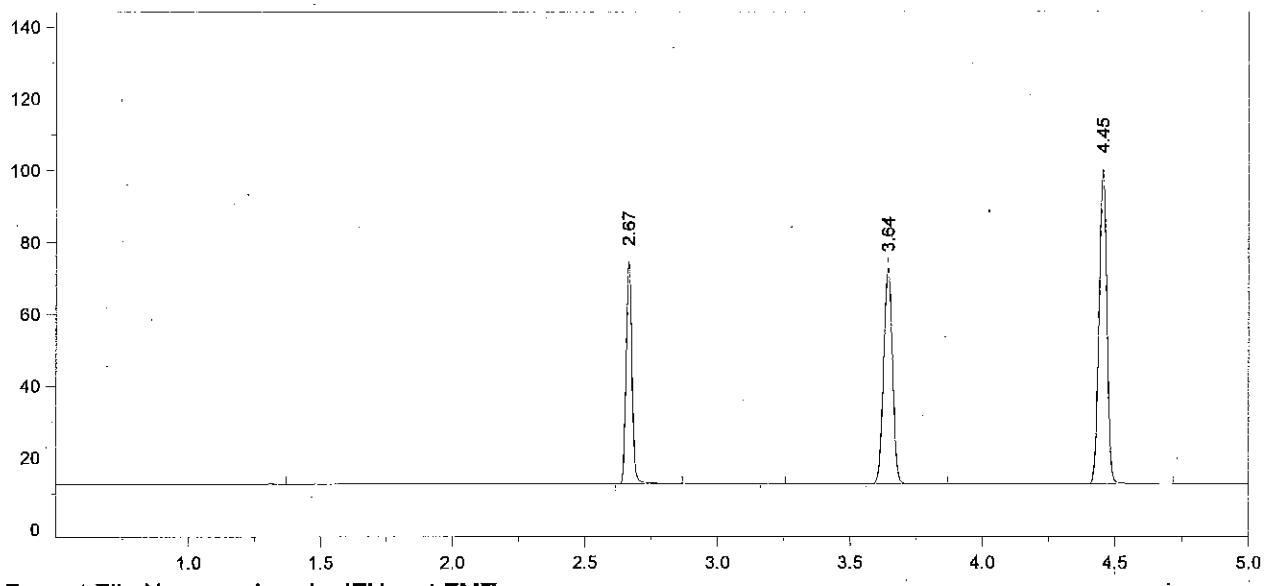
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	95065	0.0981	0.0801
4	3.64	t-Butanol	140914	0.9747	0.7956
5	4.45	n-Propanol	186291	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012 Today's Time = 9:28:42 AM
Bound File Name = SIM07102012.0016.RAW
Sample Name = .08 ALB
Date Taken = 7/10/2012 6:32:54 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal Calibration Version = 8

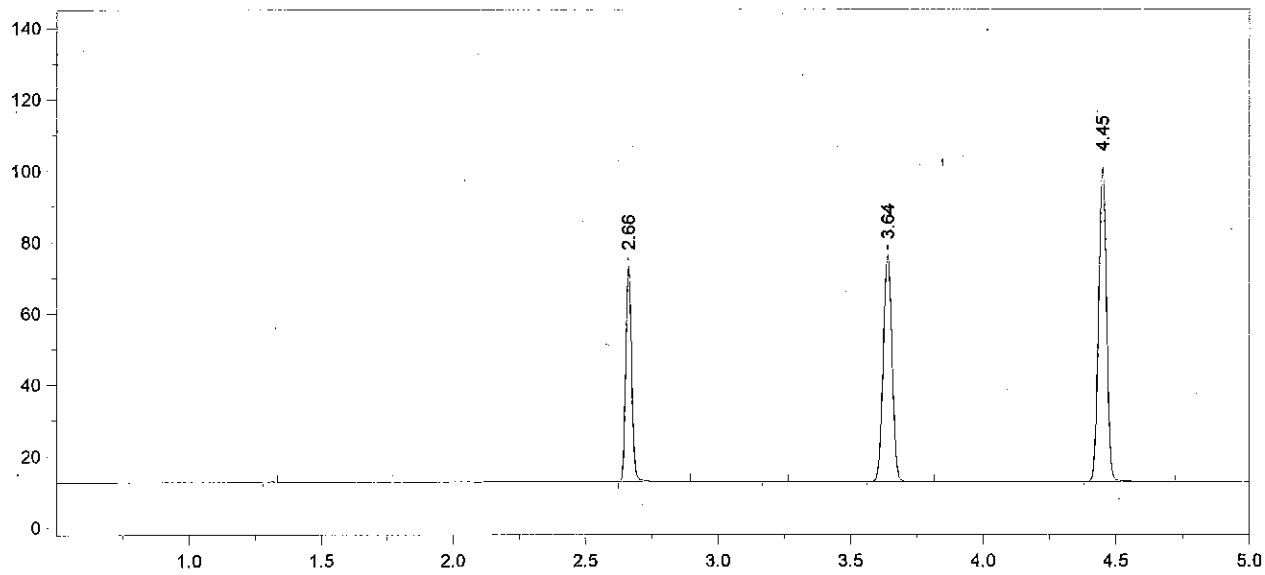
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	104813	0.0965	0.0787
4	3.64	t-Butanol	165347	1.0202	0.8327
5	4.45	n-Propanol	208856	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012 Today's Time = 9:28:50 AM
Bound File Name = SIM07102012.0017.RAW
Sample Name = .08 ALB
Date Taken = 7/10/2012 6:47:52 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal Calibration Version = 8

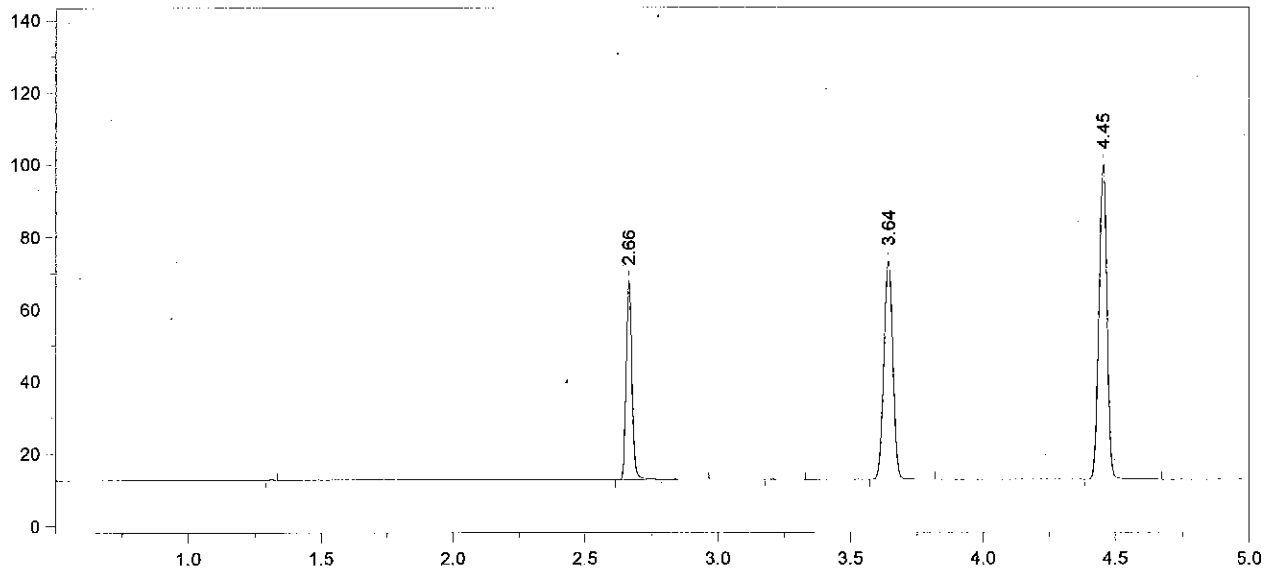
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	95214	0.0989	0.0807
4	3.64	t-Butanol	138772	0.9663	0.7887
5	4.45	n-Propanol	185059	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012 Today's Time = 9:28:58 AM
Bound File Name = SIM07102012.0018.RAW
Sample Name = .08 ALB
Date Taken = 7/10/2012 7:04:28 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal Calibration Version = 8

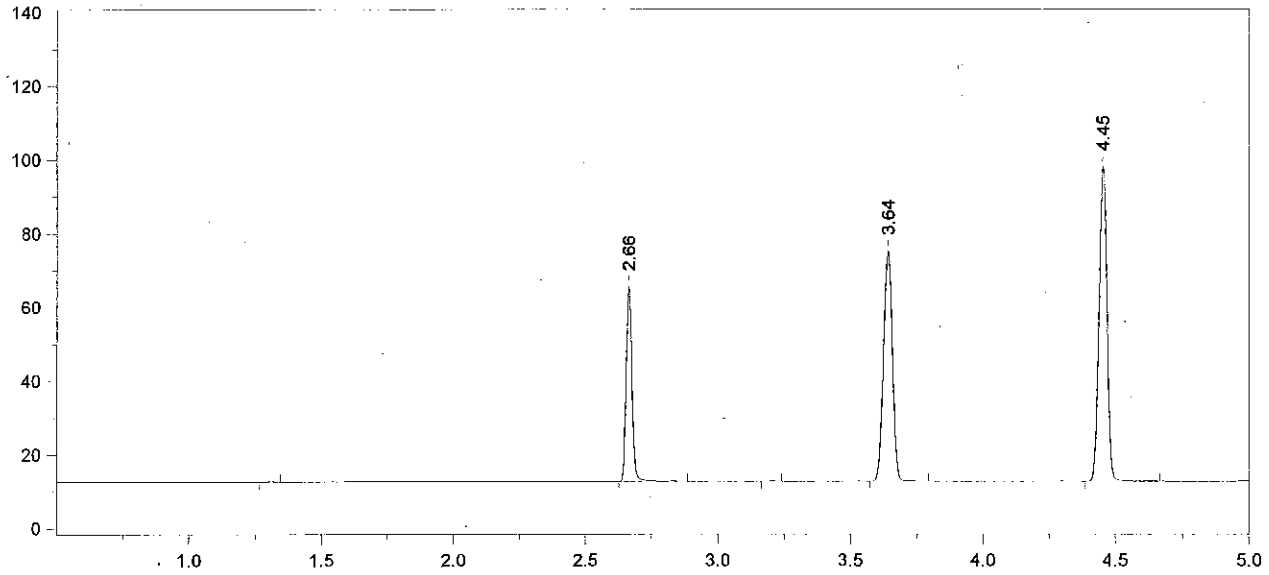
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	93901	0.0969	0.0791
4	3.64	t-Butanol	146463	1.0130	0.8268
5	4.45	n-Propanol	186317	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012 Today's Time = 9:29:06 AM
Bound File Name = SIM07102012.0019.RAW
Sample Name = CCS
Date Taken = 7/10/2012 7:18:16 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal Calibration Version = 8

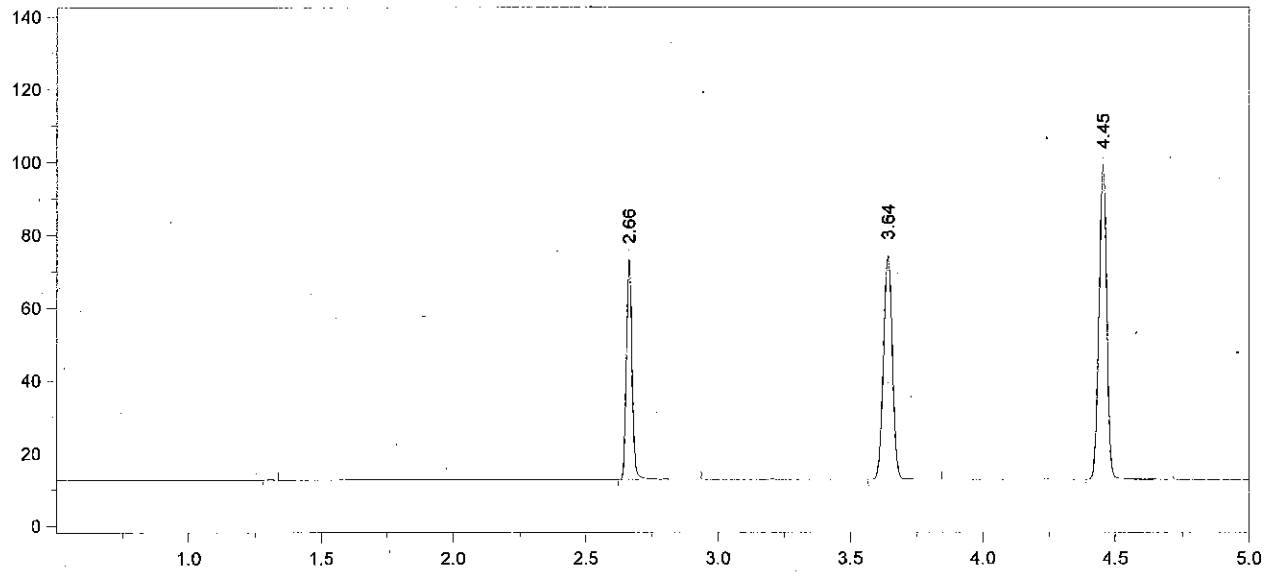
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	85510	0.0891	0.0728
4	3.64	t-Butanol	139694	0.9761	0.7967
5	4.45	n-Propanol	184412	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012 Today's Time = 9:29:13 AM
Bound File Name = SIM07102012.0020.RAW
Sample Name = CCS
Date Taken = 7/10/2012 7:35:55 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal Calibration Version = 8

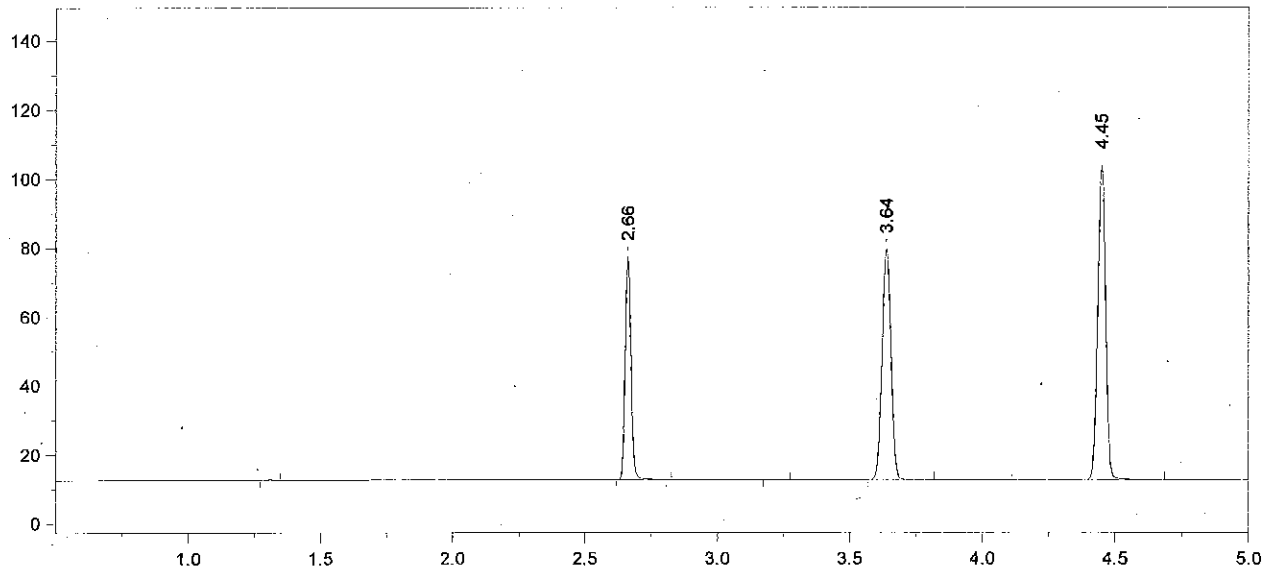
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	81546	0.0862	0.0703
4	3.64	t-Butanol	144627	1.0245	0.8362
5	4.45	n-Propanol	181919	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012 Today's Time = 9:29:21 AM
Bound File Name = SIM07102012.0021.RAW
Sample Name = .08 KW
Date Taken = 7/10/2012 7:49:56 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal Calibration Version = 8

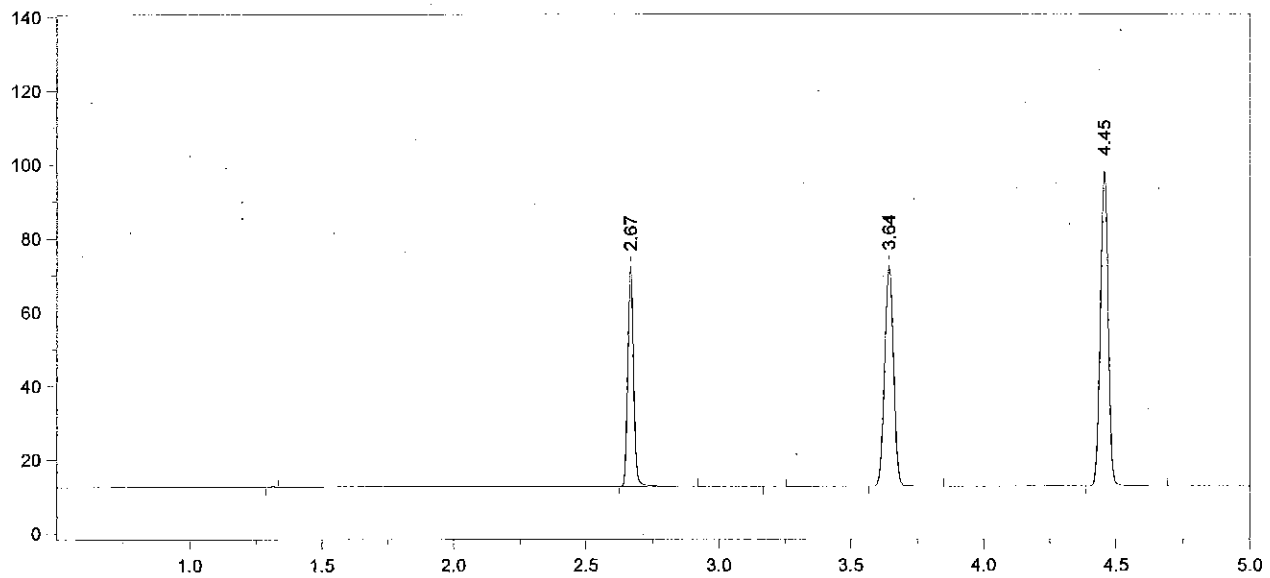
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	92797	0.0972	0.0794
3	3.64	t-Butanol	141408	0.9932	0.8107
4	4.45	n-Propanol	183469	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012 Today's Time = 9:29:28 AM
Bound File Name = SIM07102012.0022.RAW
Sample Name = .08 KW
Date Taken = 7/10/2012 8:07:20 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal Calibration Version = 8

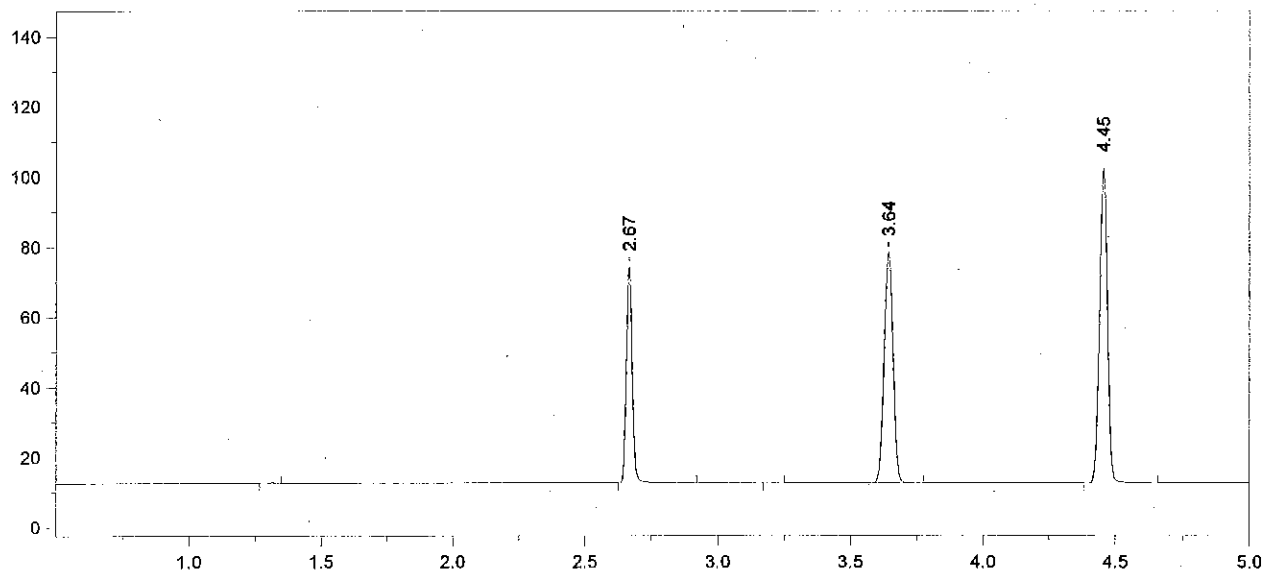
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	99518	0.0989	0.0807
4	3.64	t-Butanol	154183	1.0270	0.8382
5	4.45	n-Propanol	193465	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012 Today's Time = 9:29:36 AM
Bound File Name = SIM07102012.0023.RAW
Sample Name = .08 KW
Date Taken = 7/10/2012 8:20:33 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal Calibration Version = 8

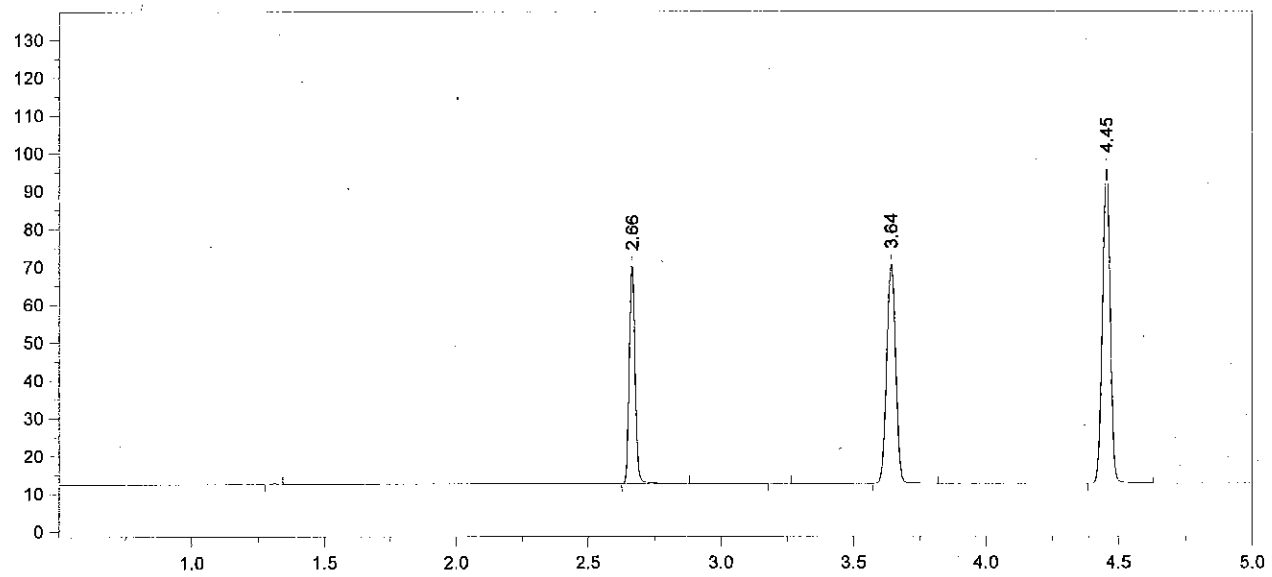
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	91622	0.0977	0.0798
4	3.64	t-Butanol	137726	0.9848	0.8038
5	4.45	n-Propanol	180217	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012 Today's Time = 9:29:43 AM
Bound File Name = SIM07102012.0024.RAW
Sample Name = .08 KW
Date Taken = 7/10/2012 8:38:44 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal Calibration Version = 8

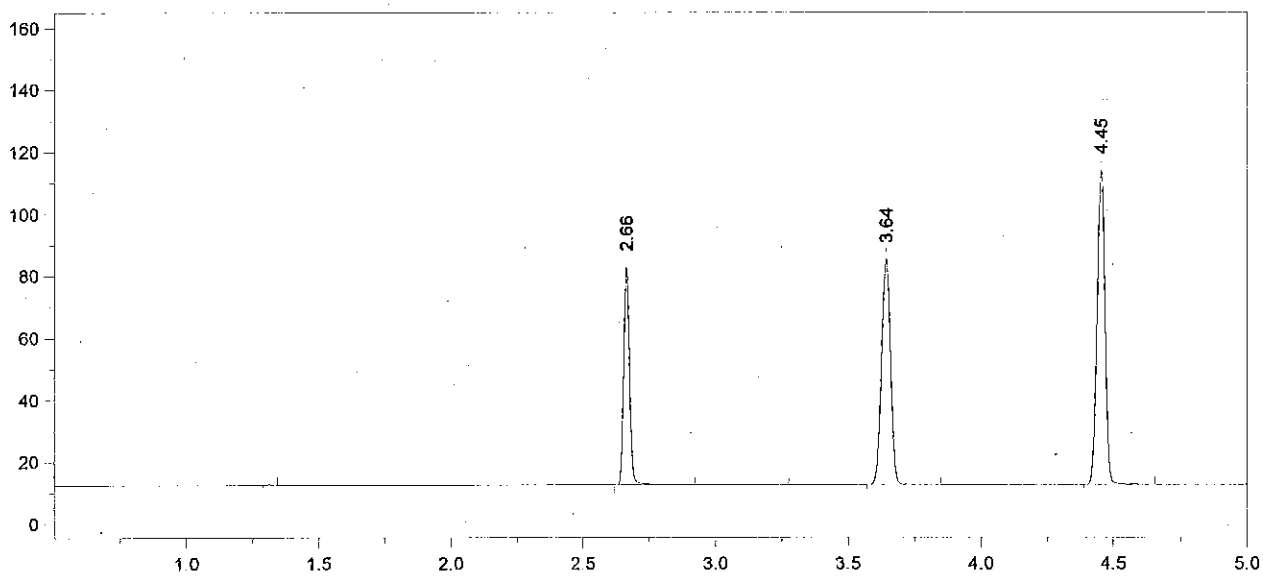
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	95116	0.0962	0.0785
4	3.64	t-Butanol	151866	1.0300	0.8407
5	4.45	n-Propanol	189993	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012 Today's Time = 9:29:51 AM
Bound File Name = SIM07102012.0025.RAW
Sample Name = .08 KW
Date Taken = 7/10/2012 8:51:59 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal Calibration Version = 8

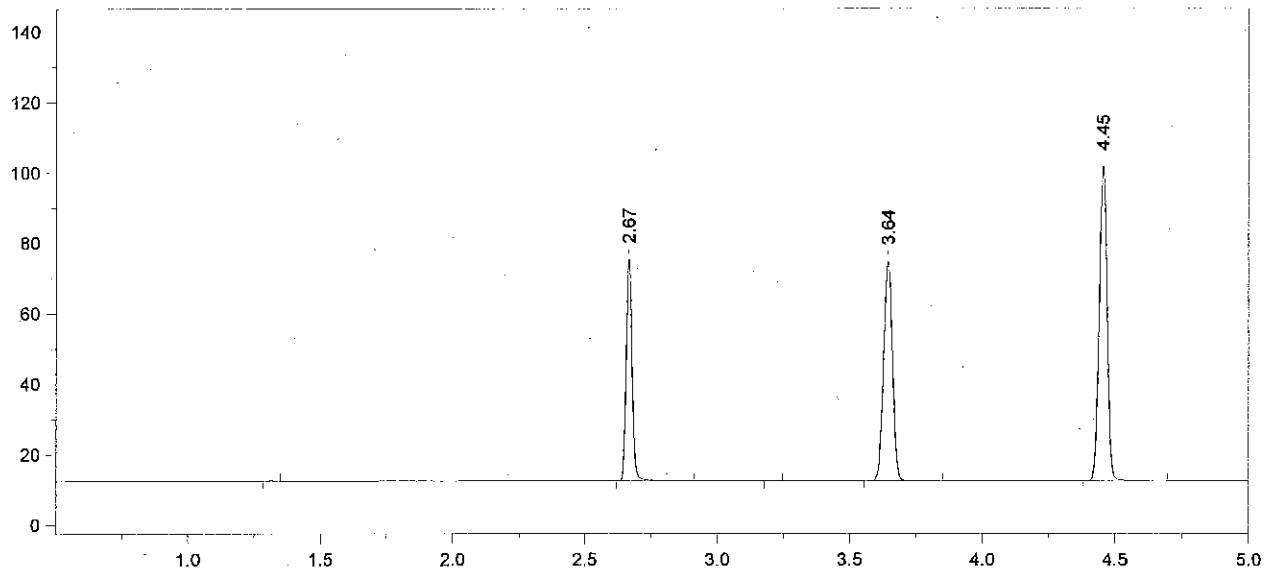
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	89311	0.0981	0.0801
4	3.64	t-Butanol	133774	0.9854	0.8043
5	4.45	n-Propanol	174937	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012 Today's Time = 9:29:59 AM
Bound File Name = SIM07102012.0026.RAW
Sample Name = .08 KW
Date Taken = 7/10/2012 9:08:25 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal Calibration Version = 8

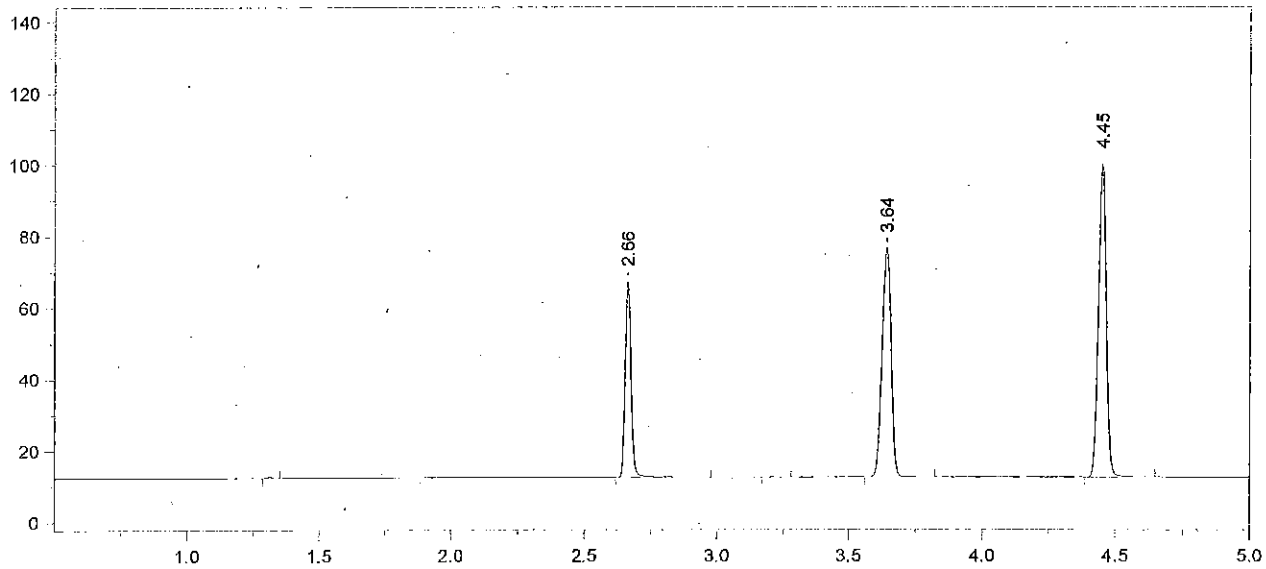
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	108126	0.0965	0.0788
4	3.64	t-Butanol	168247	1.0070	0.8219
5	4.45	n-Propanol	215294	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012 Today's Time = 9:30:06 AM
Bound File Name = SIM07102012.0027.RAW
Sample Name = .08 KW
Date Taken = 7/10/2012 9:23:58 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal Calibration Version = 8

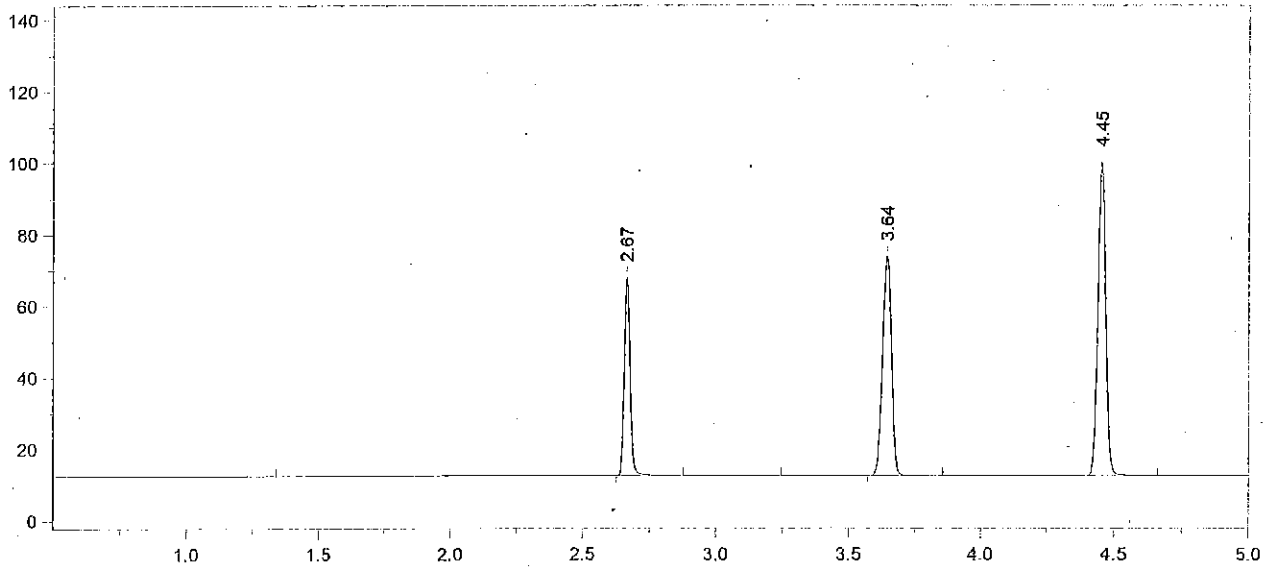
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	96950	0.0983	0.0802
4	3.64	t-Butanol	143773	0.9773	0.7977
5	4.45	n-Propanol	189574	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012
Today's Time = 9:30:15 AM
Bound File Name = SIM07102012.0028.RAW
Sample Name = CCS
Date Taken = 7/10/2012 9:40:00 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal
Calibration Version = 8

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	84076	0.0868	0.0708
4	3.64	t-Butanol	147305	1.0195	0.8321
5	4.45	n-Propanol	186198	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012 Today's Time = 9:30:22 AM
Bound File Name = SIM07102012.0029.RAW
Sample Name = CCS
Date Taken = 7/10/2012 9:54:31 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal Calibration Version = 8

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	84922	0.0880	0.0718
4	3.64	t-Butanol	141233	0.9809	0.8006
5	4.45	n-Propanol	185536	1.0000	0.8162

Headspace Alcohol Analysis Standards Coversheet

Analyst: KW Date: 7/12/2012

Calibration Standards:

Lot ID: ES-05102012 Preparation Date: 05/10/2012 Expiration Date: 08/10/2012

	Standard A	Standard B	Standard C	Standard D	Standard E	Calibration Check
% Ethanol (w/v)	0.006	0.023	0.087	0.211	0.414	
Acceptance Range (± 10%)	0.007	0.025	0.096	0.232	0.455	
	0.005	0.021	0.078	0.190	0.372	

Control Sample:

Sample	Source	Lot number	Target Value	Acceptance Range	
Aqueous	Cerilliant	~~FN111711-01~~	~~0.100~~	~~0.110~~	~~0.090~~ KW
		FN021111-03	0.08	0.072	0.088 7/12/12

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		0.0055	(Y) N	✓
4	Standard B		0.022	(Y) N	✓
5	Standard C		0.085	(Y) N	✓
6	Standard D		0.206	(Y) N	✓
7	Standard E		0.417	(Y) N	✓
8	Aqueous QC		0.077	(Y) N	✓ AVG = 0.078 ✓
9	Aqueous QC		0.078	(Y) N	✓

7/13/2012

File Name: C:\Methods\SimCal 07112012.cal
Version: 2

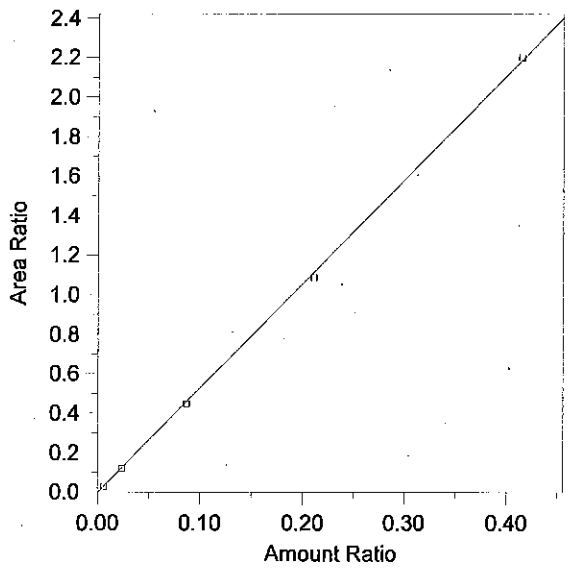
Creator:
Description:
Reason for change:

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:	2.668 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 = 5.277935 X + 0

Linear fit with equal weighting, forced to origin

Coefficient of determination:	0.9996979
Average error:	3.311%
Average CF:	5.117666
RSD:	2.879%

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	5543.012	939493.6	-6.591	0.0059	2.908727E-02	C:\Alcohol Data\SIM07112012\SIM07062012.0068.BND	7/12/2012 8:43:52 AM
3	0.0235	22368.3	951842.6	-4.856	0.0235	0.1180083	C:\Alcohol Data\SIM07112012\SIM07062012.0069.BND	7/12/2012 8:43:58 AM
4	0.0869	83245.19	957942.3	-2.207	0.0869	0.4485321	C:\Alcohol Data\SIM07112012\SIM07062012.0070.BND	7/12/2012 8:44:05 AM
5	0.2107	205693.4	976238.3	-2.216	0.2107	1.087422	C:\Alcohol Data\SIM07112012\SIM07062012.0071.BND	7/12/2012 8:44:10 AM
6	0.4144	402026	970139.9	0.687	0.4144	2.202197	C:\Alcohol Data\SIM07112012\SIM07062012.0072.BND	7/12/2012 8:44:17 AM

File Name = C:\Alcohol Data\SIM07112012\SIM07112012.SEQ
Version = 2
File Date = 7/12/2012 8:41:31 AM

Entry #	Raw File Name	Method File Name	Sample Name	Sample Wt.	Int. Std. Amount
1	SIM07062012.0066.raw	simsoln.met	Blank	1.00	1.00
2	SIM07062012.0067.raw	simsoln.met	TMX	1.00	1.00
3	SIM07062012.0068.raw	simsoln.met	STD A	1.00	1.00
4	SIM07062012.0069.raw	simsoln.met	STD B	1.00	1.00
5	SIM07062012.0070.raw	simsoln.met	STD C	1.00	1.00
6	SIM07062012.0071.raw	simsoln.met	STD D	1.00	1.00
7	SIM07062012.0072.raw	simsoln.met	STD E	1.00	1.00
8	SIM07062012.0073.raw	simsoln.met	AQ QC	1.00	1.00
9	SIM07062012.0074.raw	simsoln.met	AQ QC	1.00	1.00
10	SIM07062012.0075.raw	simsoln.met	CCS	1.00	1.00
11	SIM07062012.0076.raw	simsoln.met	CCS	1.00	1.00
12	SIM07062012.0077.raw	simsoln.met	.08 ALB	1.00	1.00
13	SIM07062012.0078.raw	simsoln.met	.08 ALB	1.00	1.00
14	SIM07062012.0079.raw	simsoln.met	.08 ALB	1.00	1.00
15	SIM07062012.0080.raw	simsoln.met	.08 ALB	1.00	1.00
16	SIM07062012.0081.raw	simsoln.met	.08 ALB	1.00	1.00
17	SIM07062012.0082.raw	simsoln.met	.08 ALB	1.00	1.00
18	SIM07062012.0083.raw	simsoln.met	.08 ALB	1.00	1.00
19	SIM07062012.0084.raw	simsoln.met	CCS	1.00	1.00
20	SIM07062012.0085.raw	simsoln.met	CCS	1.00	1.00
21	SIM07062012.0086.raw	simsoln.met 85	.08 KW	1.00	1.00
22	SIM07062012.0087.raw	simsoln.met 86	.08 KW	1.00	1.00
23	SIM07062012.0088.raw	simsoln.met 87	.08 KW	1.00	1.00
24	SIM07062012.0089.raw	simsoln.met 88	.08 KW	1.00	1.00
25	SIM07062012.0090.raw	simsoln.met 89	.08 KW	1.00	1.00
26	SIM07062012.0091.raw	simsoln.met 90	.08 KW	1.00	1.00
27	SIM07062012.0092.raw	simsoln.met 91	.08 KW	1.00	1.00
28	SIM07062012.0093.raw	simsoln.met 92	CCS	1.00	1.00
29	SIM07062012.0094.raw	simsoln.met 93	CCS	1.00	1.00
30	SIM07062012.0095.raw	simsoln.met 94	.16 ALB	1.00	1.00
31	SIM07062012.0096.raw	simsoln.met 95	.16 ALB	1.00	1.00
32	SIM07062012.0097.raw	simsoln.met 96	.16 ALB	1.00	1.00
33	SIM07062012.0098.raw	simsoln.met 97	.16 ALB	1.00	1.00
34	SIM07062012.0099.raw	simsoln.met 98	.16 ALB	1.00	1.00
35	SIM07062012.0100.raw	simsoln.met 99	.16 ALB	1.00	1.00
36	SIM07062012.0101.raw	simsoln.met 100	.16 ALB	1.00	1.00
37	SIM07062012.0102.raw	simsoln.met 101	CCS	1.00	1.00
38	SIM07062012.0103.raw	simsoln.met 102	CCS	1.00	1.00
39	SIM07062012.0104.raw	simsoln.met 103	.16 KW	1.00	1.00
40	SIM07062012.0105.raw	simsoln.met 104	.16 KW	1.00	1.00
41	SIM07062012.0106.raw	simsoln.met 105	.16 KW	1.00	1.00
42	SIM07062012.0107.raw	simsoln.met 106	.16 KW	1.00	1.00
43	SIM07062012.0108.raw	simsoln.met 107	.16 KW	1.00	1.00
44	SIM07062012.0109.raw	simsoln.met 108	.16 KW	1.00	1.00
45	SIM07062012.0110.raw	simsoln.met 109	.16 KW	1.00	1.00
46	SIM07062012.0111.raw	simsoln.met 110	CCS	1.00	1.00
47	SIM07062012.0112.raw	simsoln.met 111	CCS	1.00	1.00
48	SIM07062012.0113.raw	simsoln.met 112	.40 ALB	1.00	1.00
49	SIM07062012.0114.raw	simsoln.met 113	.40 ALB	1.00	1.00
50	SIM07062012.0115.raw	simsoln.met 114	.40 ALB	1.00	1.00
51	SIM07062012.0116.raw	simsoln.met 115	.40 ALB	1.00	1.00
52	SIM07062012.0117.raw	simsoln.met 116	.40 ALB	1.00	1.00
53	SIM07062012.0118.raw	simsoln.met 117	.40 ALB	1.00	1.00
54	SIM07062012.0119.raw	simsoln.met 118	.40 ALB	1.00	1.00
55	SIM07062012.0120.raw	simsoln.met 119	CCS	1.00	1.00
56	SIM07062012.0121.raw	simsoln.met 120	CCS	1.00	1.00
57	SIM07062012.0122.raw	simsoln.met 121	.40 KW	1.00	1.00
58	SIM07062012.0123.raw	simsoln.met 122	.40 KW	1.00	1.00
59	SIM07062012.0124.raw	simsoln.met 123	.40 KW	1.00	1.00
60	SIM07062012.0125.raw	simsoln.met 124	.40 KW	1.00	1.00
61	SIM07062012.0126.raw	simsoln.met 125	.40 KW	1.00	1.00
62	SIM07062012.0127.raw	simsoln.met 126	.40 KW	1.00	1.00

SAMPLE DATA NOT RETAINED ∴ ALL SUBSEQUENT DATA FILES ARE ONE ENTRY OFF. I.E. ENTRY #27 IS ACTUALLY #28. TLC 7/13/12

Entry #	Raw File Name	Method File Name	Sample Name	Sample Wt.	Int. Std. Amount
63	SIM07062012.0128.raw	simsoln.met 127	.40 KW	1.00	1.00
64	SIM07062012.0129.raw	simsoln.met 128	CCS	1.00	1.00
65	SIM07062012.0130.raw	simsoln.met 129	CCS	1.00	1.00

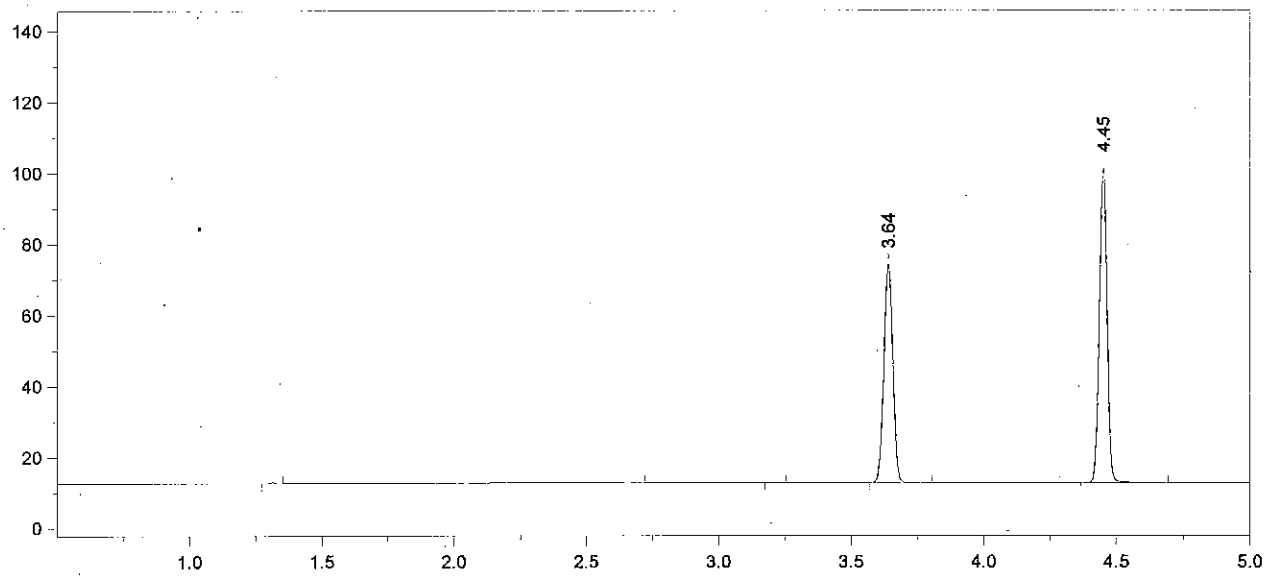
Chrom Perfect Data Log Results

File

Date/Time	Action	File Name	Version	Level	FromFile	Sample Name	Method Name	App Name	User Name
7/11/2012 4:32:34 PM	14 (write bound data files)	C:\Alcohol Data...	0	0				Traffic	
7/11/2012 4:49:57 PM	10 (write raw data files)	C:\Alcohol Data...	1	0		CCS	C:\Methods\sim...	Data Acquisition	
7/11/2012 4:50:02 PM	14 (write bound data files)	C:\Alcohol Data...	0	0				Traffic	
7/11/2012 5:03:49 PM	10 (write raw data files)	C:\Alcohol Data...	1	0		CCS	C:\Methods\sim...	Data Acquisition	
7/11/2012 5:03:56 PM	14 (write bound data files)	C:\Alcohol Data...	0	0				Traffic	
7/11/2012 5:19:43 PM	10 (write raw data files)	C:\Alcohol Data...	1	0		CCS	C:\Methods\sim...	Data Acquisition	
7/11/2012 5:19:48 PM	14 (write bound data files)	C:\Alcohol Data...	0	0				Traffic	
7/11/2012 5:35:06 PM	10 (write raw data files)	C:\Alcohol Data...	1	0		CCS	C:\Methods\sim...	Data Acquisition	
7/11/2012 5:35:15 PM	14 (write bound data files)	C:\Alcohol Data...	0	0				Traffic	
7/11/2012 5:51:10 PM	10 (write raw data files)	C:\Alcohol Data...	1	0		CCS	C:\Methods\sim...	Data Acquisition	
7/11/2012 5:51:19 PM	14 (write bound data files)	C:\Alcohol Data...	0	0				Traffic	
7/11/2012 6:05:31 PM	10 (write raw data files)	C:\Alcohol Data...	1	0		CCS	C:\Methods\sim...	Data Acquisition	
7/11/2012 6:05:41 PM	14 (write bound data files)	C:\Alcohol Data...	0	0				Traffic	
7/11/2012 6:22:37 PM	10 (write raw data files)	C:\Alcohol Data...	1	0		CCS	C:\Methods\sim...	Data Acquisition	
7/11/2012 6:22:47 PM	14 (write bound data files)	C:\Alcohol Data...	0	0				Traffic	
7/11/2012 6:36:22 PM	10 (write raw data files)	C:\Alcohol Data...	1	0		CCS	C:\Methods\sim...	Data Acquisition	
7/11/2012 6:36:27 PM	14 (write bound data files)	C:\Alcohol Data...	0	0				Traffic	
7/11/2012 6:52:18 PM	10 (write raw data files)	C:\Alcohol Data...	1	0		CCS	C:\Methods\sim...	Data Acquisition	
7/11/2012 6:52:23 PM	14 (write bound data files)	C:\Alcohol Data...	0	0				Traffic	
7/11/2012 7:07:42 PM	10 (write raw data files)	C:\Alcohol Data...	1	0		CCS	C:\Methods\sim...	Data Acquisition	
7/11/2012 7:07:47 PM	14 (write bound data files)	C:\Alcohol Data...	0	0				Traffic	
7/11/2012 7:23:50 PM	10 (write raw data files)	C:\Alcohol Data...	1	0		CCS	C:\Methods\sim...	Data Acquisition	
7/11/2012 7:23:53 PM	14 (write bound data files)	C:\Alcohol Data...	0	0				Traffic	
7/11/2012 7:38:16 PM	10 (write raw data files)	C:\Alcohol Data...	1	0		CCS	C:\Methods\sim...	Data Acquisition	
7/11/2012 7:38:23 PM	14 (write bound data files)	C:\Alcohol Data...	0	0				Traffic	
7/11/2012 8:08:55 PM	10 (write raw data files)	C:\Alcohol Data...	1	0		CCS	C:\Methods\sim...	Data Acquisition	
7/11/2012 8:09:04 PM	14 (write bound data files)	C:\Alcohol Data...	0	0				Traffic	
7/11/2012 8:26:39 PM	10 (write raw data files)	C:\Alcohol Data...	1	0		CCS	C:\Methods\sim...	Data Acquisition	
7/11/2012 8:26:44 PM	14 (write bound data files)	C:\Alcohol Data...	0	0				Traffic	
7/11/2012 8:40:25 PM	10 (write raw data files)	C:\Alcohol Data...	1	0		CCS	C:\Methods\sim...	Data Acquisition	
7/11/2012 8:40:30 PM	14 (write bound data files)	C:\Alcohol Data...	0	0				Traffic	
7/11/2012 8:58:06 PM	10 (write raw data files)	C:\Alcohol Data...	1	0		CCS	C:\Methods\sim...	Data Acquisition	
7/11/2012 8:58:12 PM	14 (write bound data files)	C:\Alcohol Data...	0	0				Traffic	
7/11/2012 9:12:38 PM	10 (write raw data files)	C:\Alcohol Data...	1	0		CCS	C:\Methods\sim...	Data Acquisition	
7/11/2012 9:12:46 PM	14 (write bound data files)	C:\Alcohol Data...	0	0				Traffic	
7/11/2012 9:29:30 PM	10 (write raw data files)	C:\Alcohol Data...	1	0		CCS	C:\Methods\sim...	Data Acquisition	
7/11/2012 9:29:38 PM	14 (write bound data files)	C:\Alcohol Data...	0	0				Traffic	
7/11/2012 9:43:10 PM	10 (write raw data files)	C:\Alcohol Data...	1	0		CCS	C:\Methods\sim...	Data Acquisition	
7/11/2012 9:43:14 PM	14 (write bound data files)	C:\Alcohol Data...	0	0				Traffic	
7/11/2012 10:00:55 PM	10 (write raw data files)	C:\Alcohol Data...	1	0		CCS	C:\Methods\sim...	Data Acquisition	
7/11/2012 10:01:00 PM	14 (write bound data files)	C:\Alcohol Data...	0	0				Traffic	
7/11/2012 10:14:44 PM	10 (write raw data files)	C:\Alcohol Data...	1	0		CCS	C:\Methods\sim...	Data Acquisition	
7/11/2012 10:14:48 PM	14 (write bound data files)	C:\Alcohol Data...	0	0				Traffic	
7/11/2012 10:32:19 PM	10 (write raw data files)	C:\Alcohol Data...	1	0		CCS	C:\Methods\sim...	Data Acquisition	
7/11/2012 10:32:23 PM	14 (write bound data files)	C:\Alcohol Data...	0	0				Traffic	
7/11/2012 10:46:07 PM	10 (write raw data files)	C:\Alcohol Data...	1	0		CCS	C:\Methods\sim...	Data Acquisition	
7/11/2012 10:46:11 PM	14 (write bound data files)	C:\Alcohol Data...	0	0				Traffic	

Start | HT3 TekLin... | Chrom Perf... | Chrom Perf... | Chrom Perf... | Chrom Perf... | C:\Methods... | Chrom Perf... | Chrom Per... | 10:56 AM

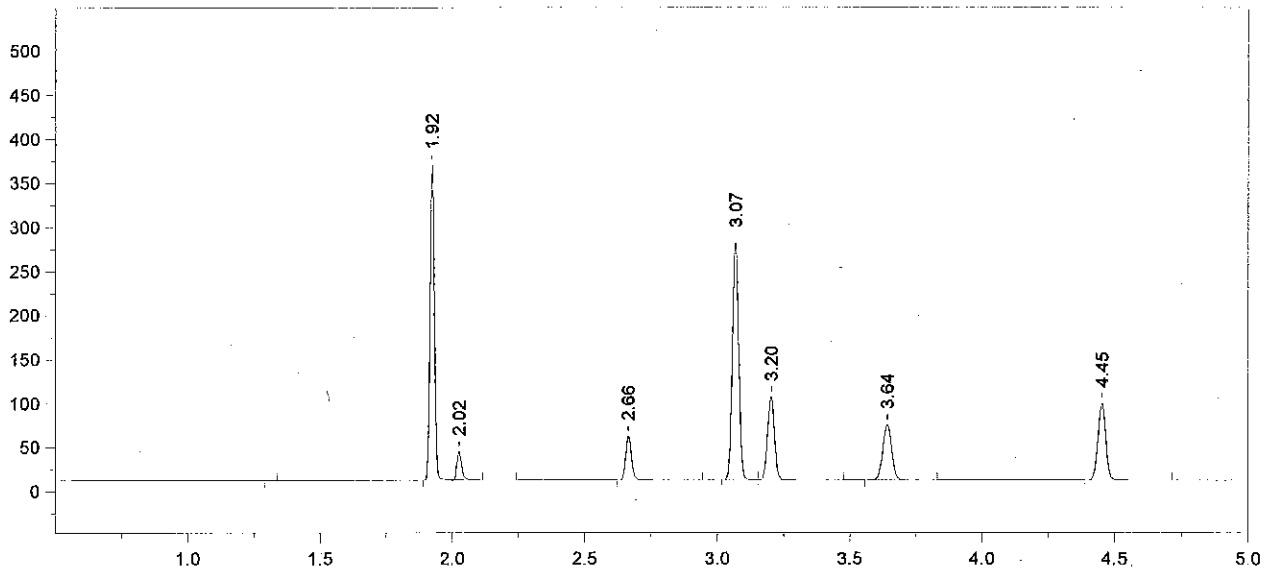
Should have been a sample taken at ~1:53 7/11/12 AB



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012
Today's Time = 8:48:11 AM
Bound File Name = SIM07062012.0066.RAW
Sample Name = ~~CES~~ KW 7/12/12 Blank
Date Taken = 7/11/2012 2:58:32 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal
Calibration Version = 2

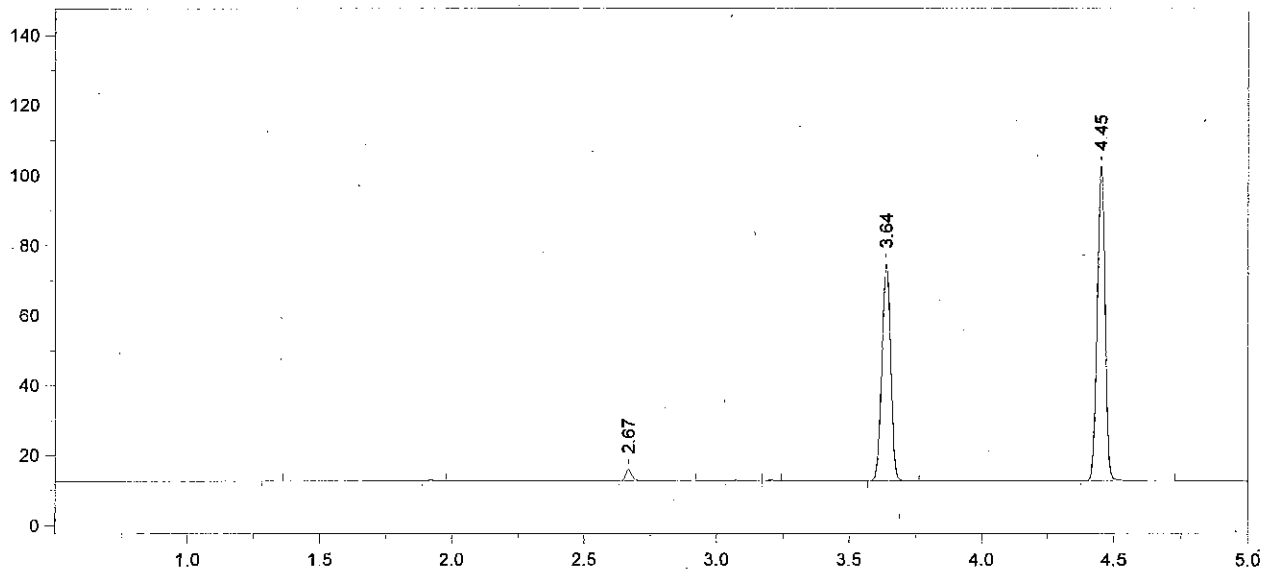
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
4	3.64	t-Butanol	141969	0.9758	0.7965
5	4.45	n-Propanol	188596	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012 Today's Time = 8:48:18 AM
Bound File Name = SIM07062012.0067.RAW
Sample Name = ~~CCS~~ KW 7/12/12 TMX
Date Taken = 7/11/2012 3:15:43 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal Calibration Version = 2

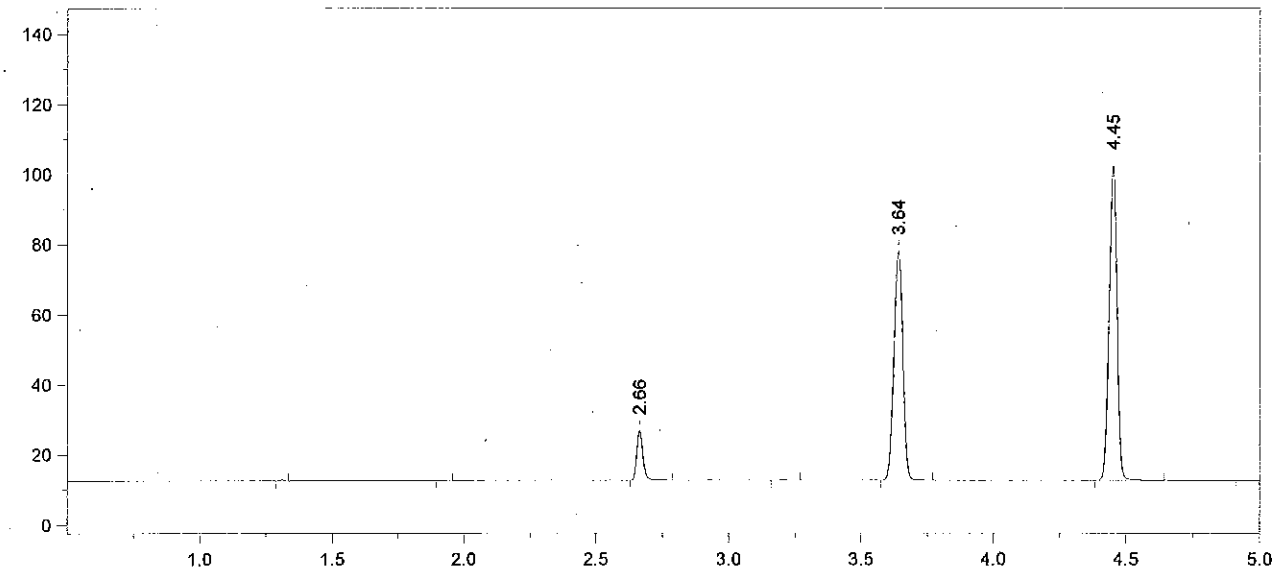
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	1.92	Acetaldehyde	407078	0.0900	0.0735
3	2.02	Methanol	39583	0.0920	0.0751
4	2.66	Ethanol	77220	0.0793	0.0647
5	3.07	Acetone	457711	0.0920	0.0751
6	3.20	Isopropanol	175717	0.1230	0.1004
7	3.64	t-Butanol	144763	1.0171	0.8301
8	4.45	n-Propanol	184509	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012
Today's Time = 8:48:25 AM
Bound File Name = SIM07062012.0068.RAW
Sample Name = ~~CCS~~ KW 7/12/12 STD A
Date Taken = 7/11/2012 3:29:28 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal
Calibration Version = 2

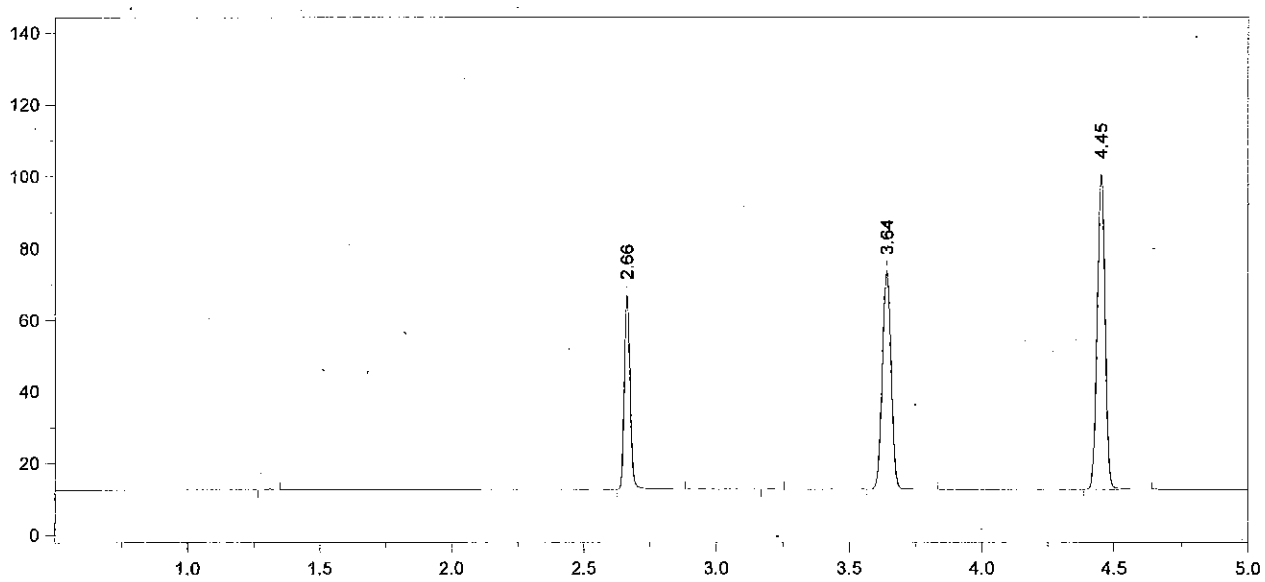
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.67	Ethanol	05543	0.0055	0.0045
6	3.64	t-Butanol	142575	0.9699	0.7916
7	4.45	n-Propanol	190565	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012 Today's Time = 8:48:31 AM
Bound File Name = SIM07062012.0069.RAW
Sample Name = ~~CES~~ KW 7/12/12 STD B
Date Taken = 7/11/2012 3:47:04 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal Calibration Version = 2

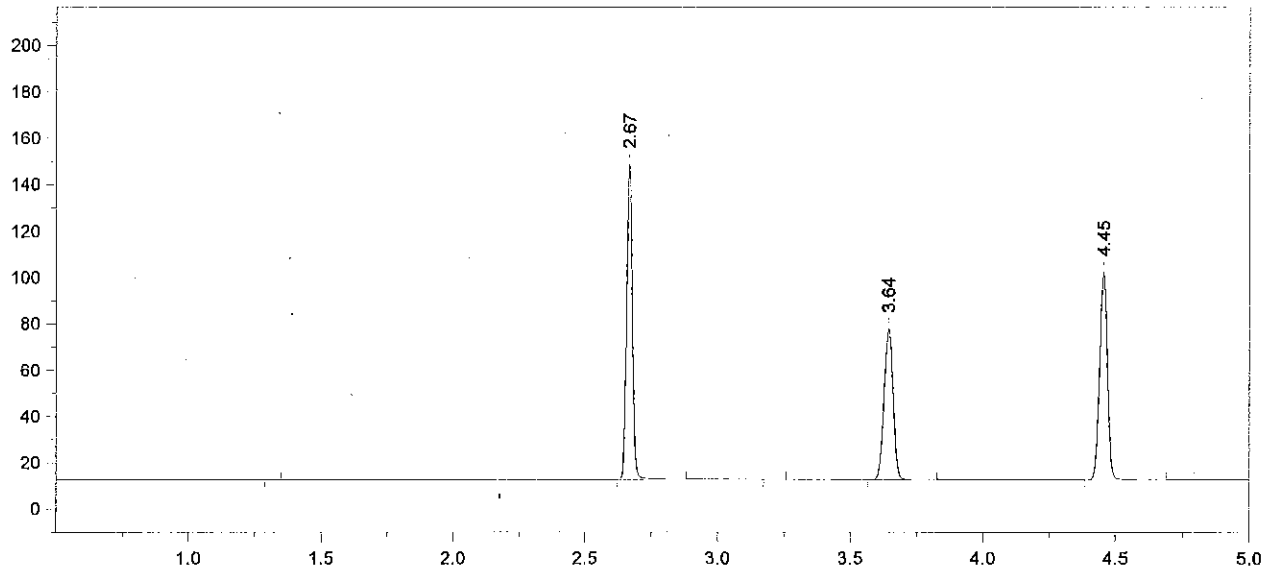
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.66	Ethanol	22368	0.0224	0.0182
5	3.64	t-Butanol	150750	1.0310	0.8415
6	4.45	n-Propanol	189549	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012 Today's Time = 8:48:37 AM
Bound File Name = SIM07062012.0070.RAW
Sample Name = ~~CCS~~ KW 7/12/12 STDC
Date Taken = 7/11/2012 4:00:20 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal Calibration Version = 2

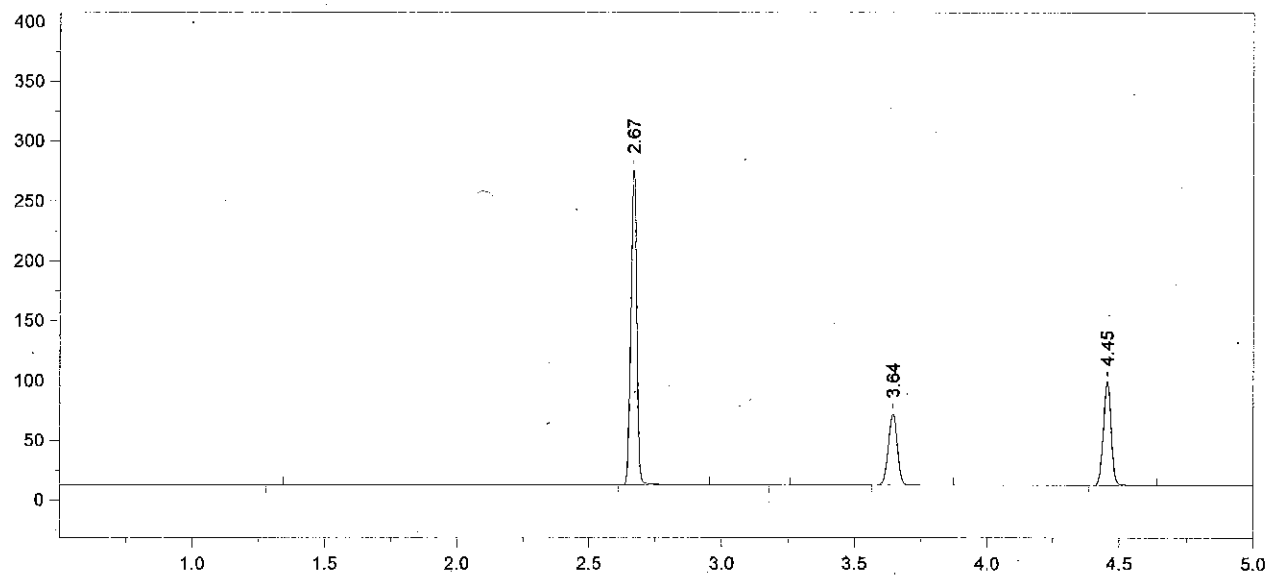
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	83245	0.0850	0.0694
4	3.64	t-Butanol	140552	0.9817	0.8013
5	4.45	n-Propanol	185595	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012
Today's Time = 8:48:44 AM
Bound File Name = SIM07062012.0071.RAW
Sample Name = ~~CES~~ KW 7/12/12 STD D
Date Taken = 7/11/2012 4:18:28 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal
Calibration Version = 2

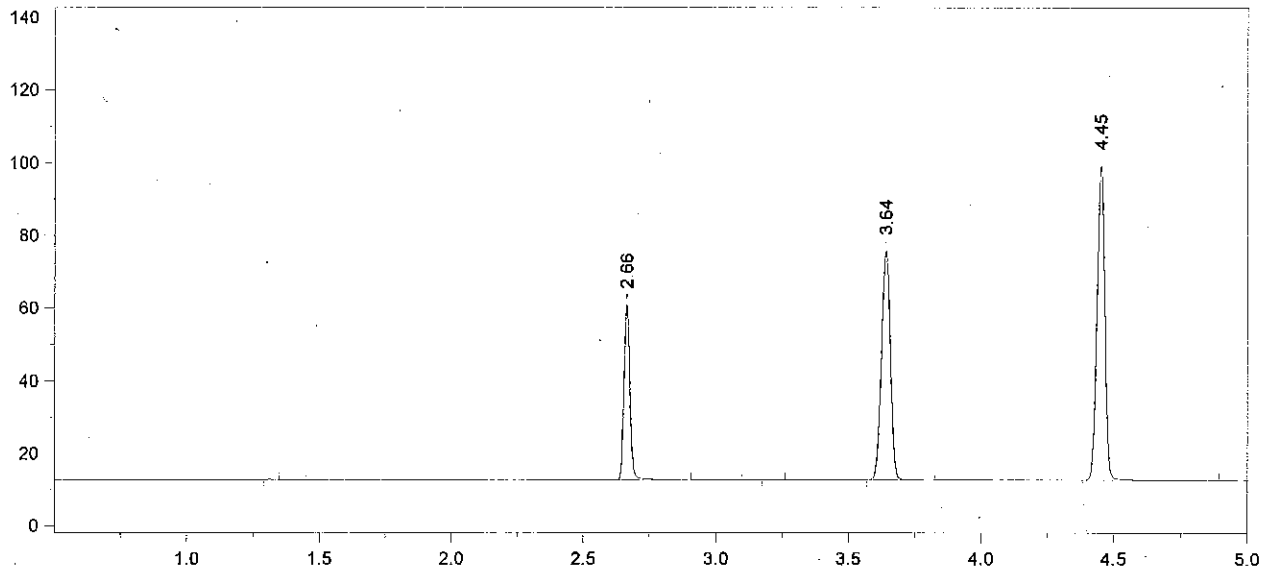
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	205693	0.2060	0.1682
4	3.64	t-Butanol	149729	1.0261	0.8375
5	4.45	n-Propanol	189157	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012 Today's Time = 8:48:50 AM
Bound File Name = SIM07062012.0072.RAW
Sample Name = ~~CCS~~ KW 7/12/12 STDE
Date Taken = 7/11/2012 4:32:29 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal Calibration Version = 2

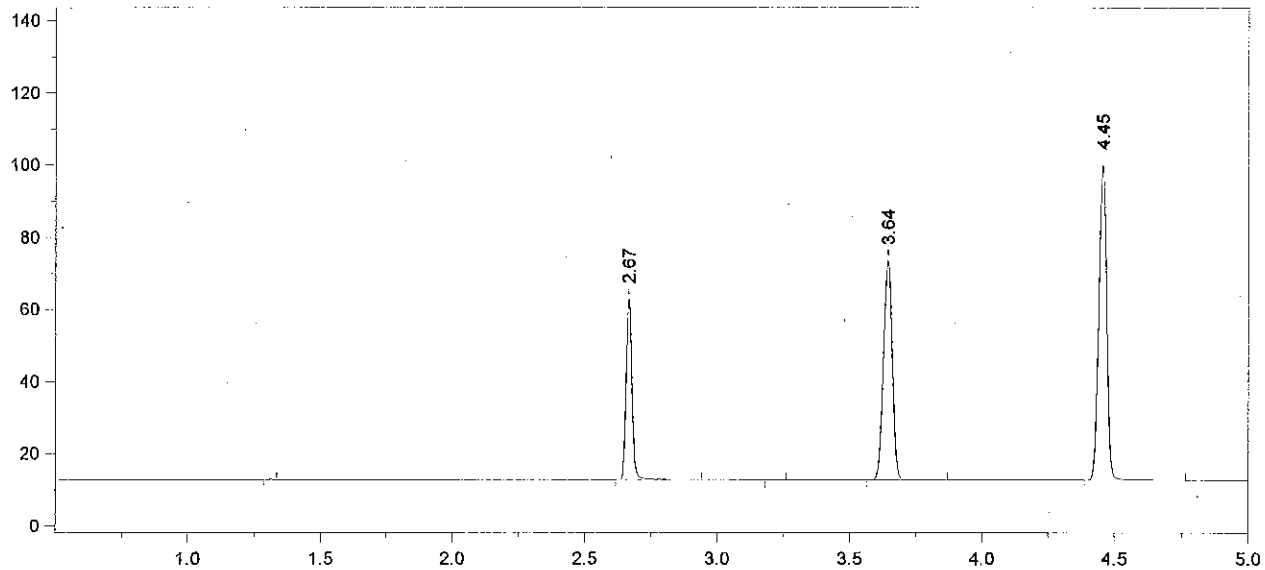
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	402026	0.4172	0.3406
4	3.64	t-Butanol	137213	0.9743	0.7952
5	4.45	n-Propanol	182557	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012
Today's Time = 8:48:56 AM
Bound File Name = SIM07062012.0073.RAW
Sample Name = ~~CES~~ KW 7/12/12 AQ.QC
Date Taken = 7/11/2012 4:49:56 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal
Calibration Version = 2

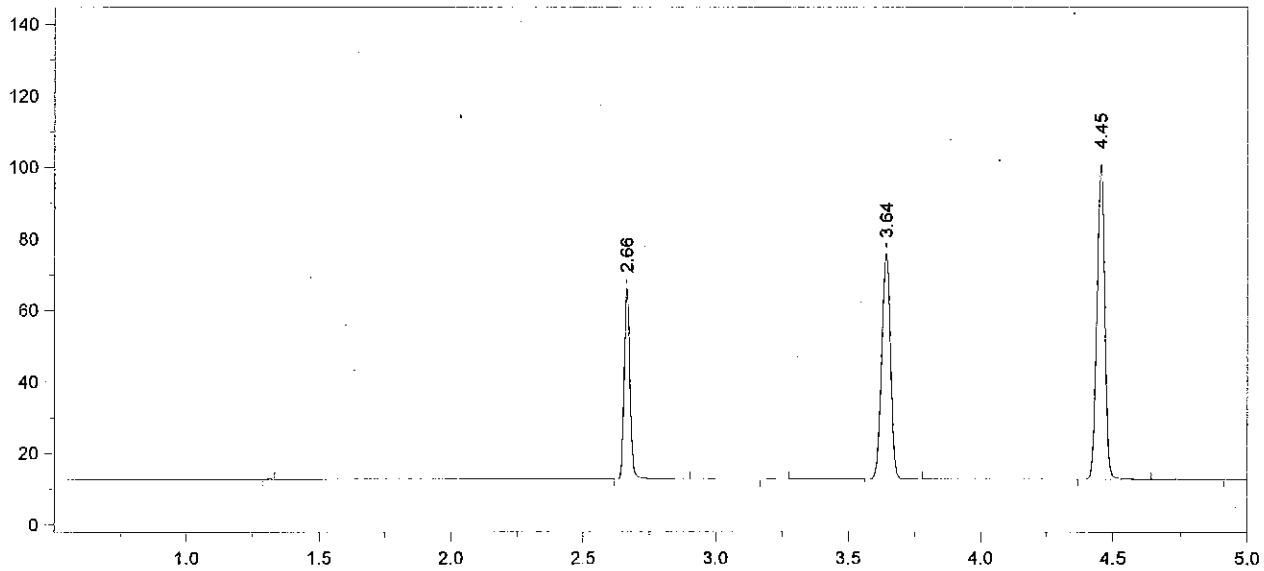
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	74597	0.0771	0.0629
4	3.64	t-Butanol	145335	1.0279	0.8390
5	4.45	n-Propanol	183282	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012
Today's Time = 8:49:03 AM
Bound File Name = SIM07062012.0074.RAW
Sample Name = ~~CCS~~ KW 7/12/12 AQ QC
Date Taken = 7/11/2012 5:03:48 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal
Calibration Version = 2

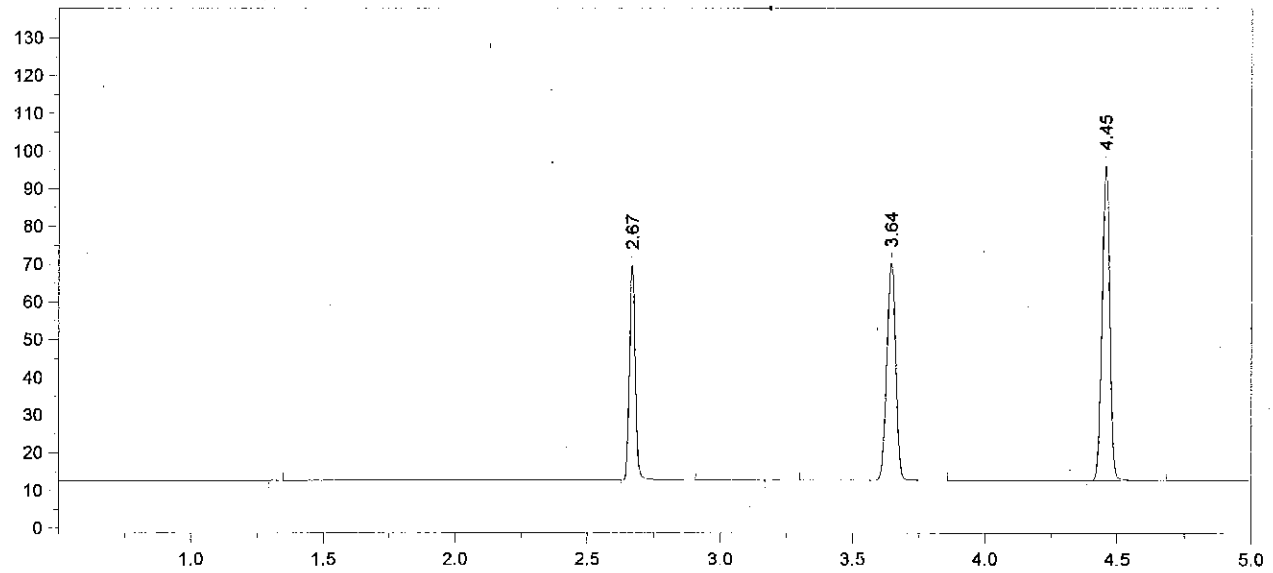
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	77193	0.0786	0.0641
4	3.64	t-Butanol	140393	0.9779	0.7981
5	4.45	n-Propanol	186111	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012 Today's Time = 8:49:09 AM
Bound File Name = SIM07062012.0075.RAW
Sample Name = CCS
Date Taken = 7/11/2012 5:19:42 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal Calibration Version = 2

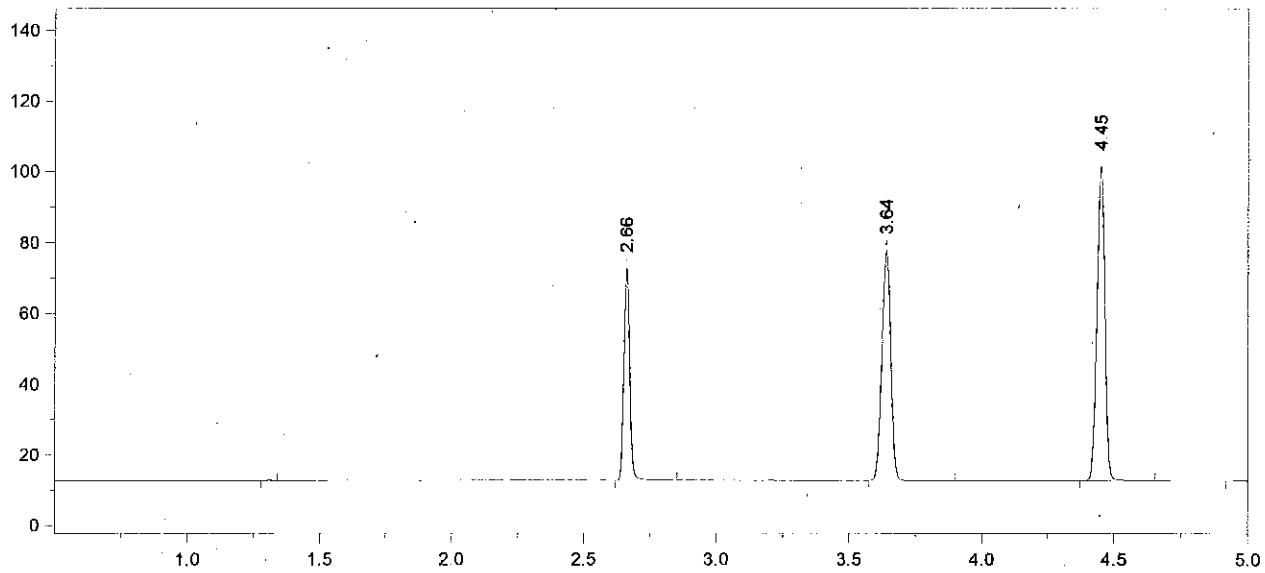
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	82997	0.0846 ✓	0.0691
4	3.64	t-Butanol	145816	1.0171	0.8301
5	4.45	n-Propanol	185845	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012 Today's Time = 8:49:18 AM
Bound File Name = SIM07062012.0076.RAW
Sample Name = CCS
Date Taken = 7/11/2012 5:35:05 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal Calibration Version = 2

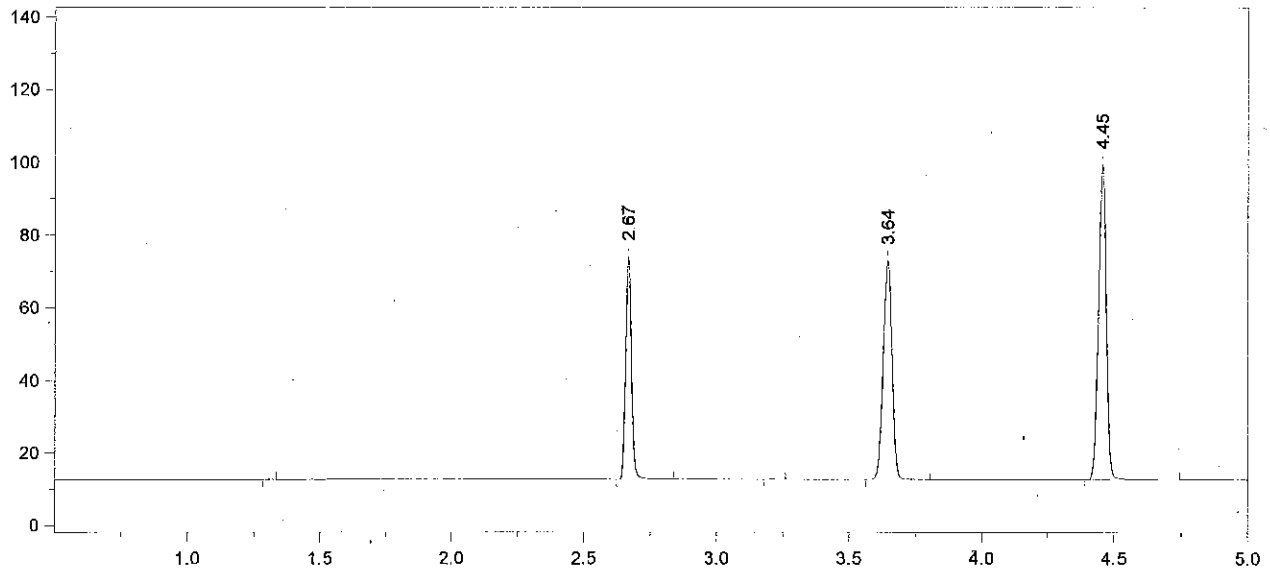
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	87486	0.0935 ✓	0.0763
4	3.64	t-Butanol	133275	0.9741	0.7950
5	4.45	n-Propanol	177365	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012 Today's Time = 8:49:25 AM
Bound File Name = SIM07062012.0077.RAW
Sample Name = ~~CES~~ KW 7/12/12 .08 ALB
Date Taken = 7/11/2012 5:51:09 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal Calibration Version = 2

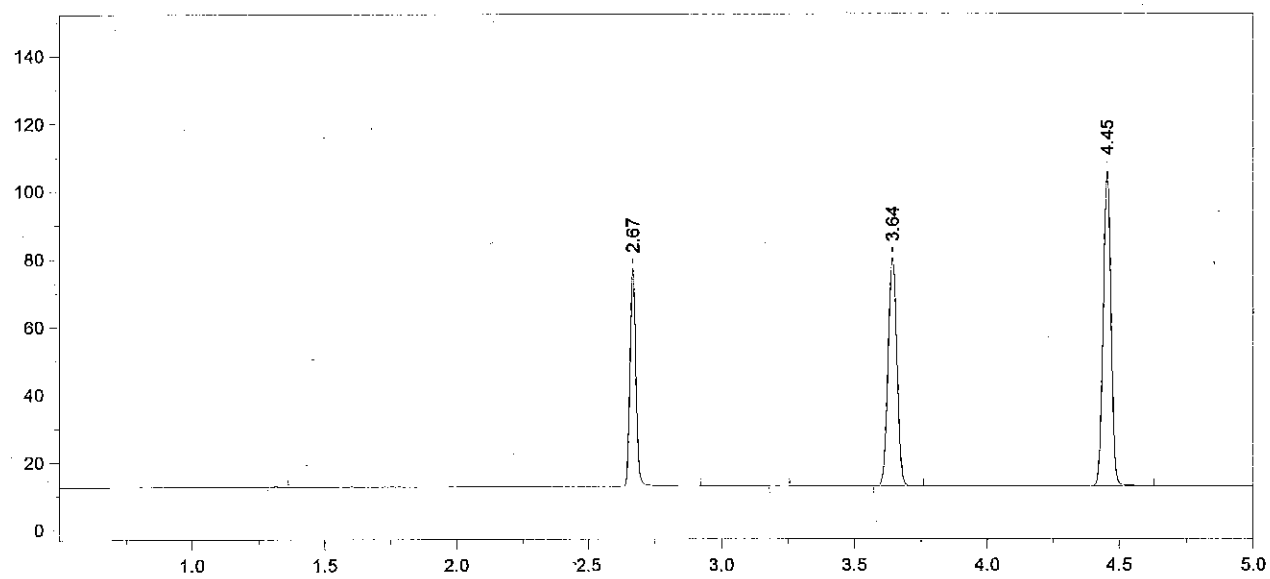
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	92287	0.0926	0.0755
3	3.64	t-Butanol	149746	1.0275	0.8386
4	4.45	n-Propanol	188924	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012
Today's Time = 8:49:32 AM
Bound File Name = SIM07062012.0078.RAW
Sample Name = ~~CGS~~ KW 7/12/12 .08 ALB
Date Taken = 7/11/2012 6:05:29 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal
Calibration Version = 2

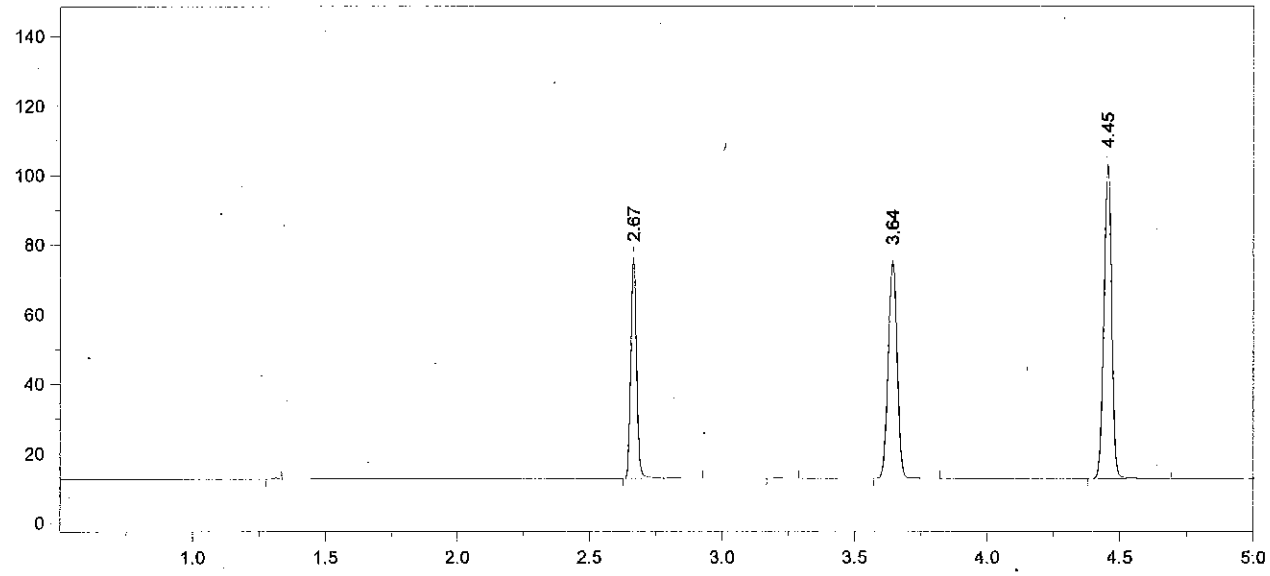
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	93743	0.0969	0.0791
4	3.64	t-Butanol	139074	0.9836	0.8028
5	4.45	n-Propanol	183290	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012
Today's Time = 8:49:39 AM
Bound File Name = SIM07062012.0079.RAW
Sample Name = ~~SES~~ KW 7/12/12 .08 ALB
Date Taken = 7/11/2012 6:22:36 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal
Calibration Version = 2

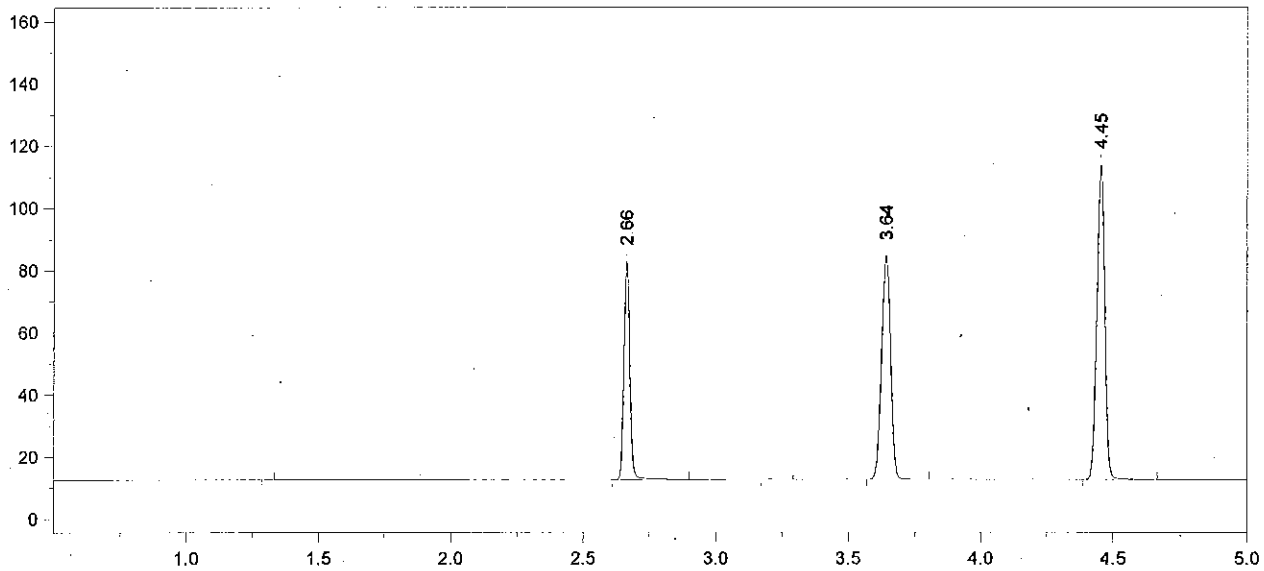
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	98848	0.0955	0.0780
4	3.64	t-Butanol	155223	1.0266	0.8379
5	4.45	n-Propanol	196010	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012
Today's Time = 8:49:46 AM
Bound File Name = SIM07062012.0080.RAW
Sample Name = ~~585~~ KW 7/12/12 .08 ALB
Date Taken = 7/11/2012 6:36:21 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal
Calibration Version = 2

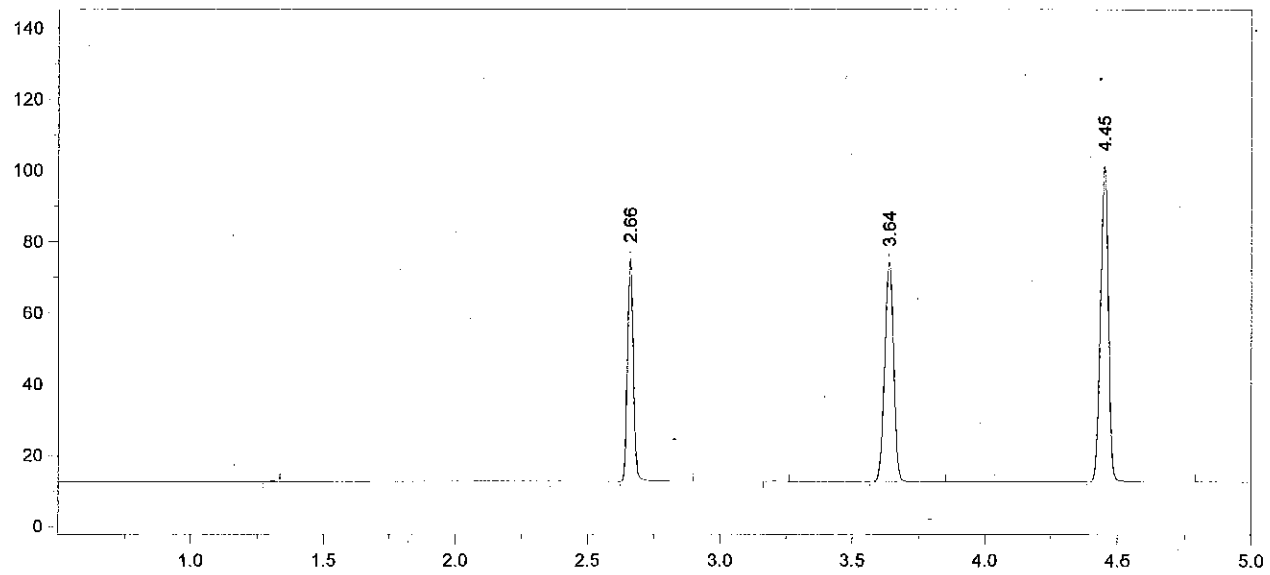
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	97971	0.0972	0.0794
4	3.64	t-Butanol	144661	0.9823	0.8018
5	4.45	n-Propanol	190897	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012 Today's Time = 8:49:54 AM
Bound File Name = SIM07062012.0081.RAW
Sample Name = ~~SES~~ KW 7/12/12 .08 ALB
Date Taken = 7/11/2012 6:52:17 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal Calibration Version = 2

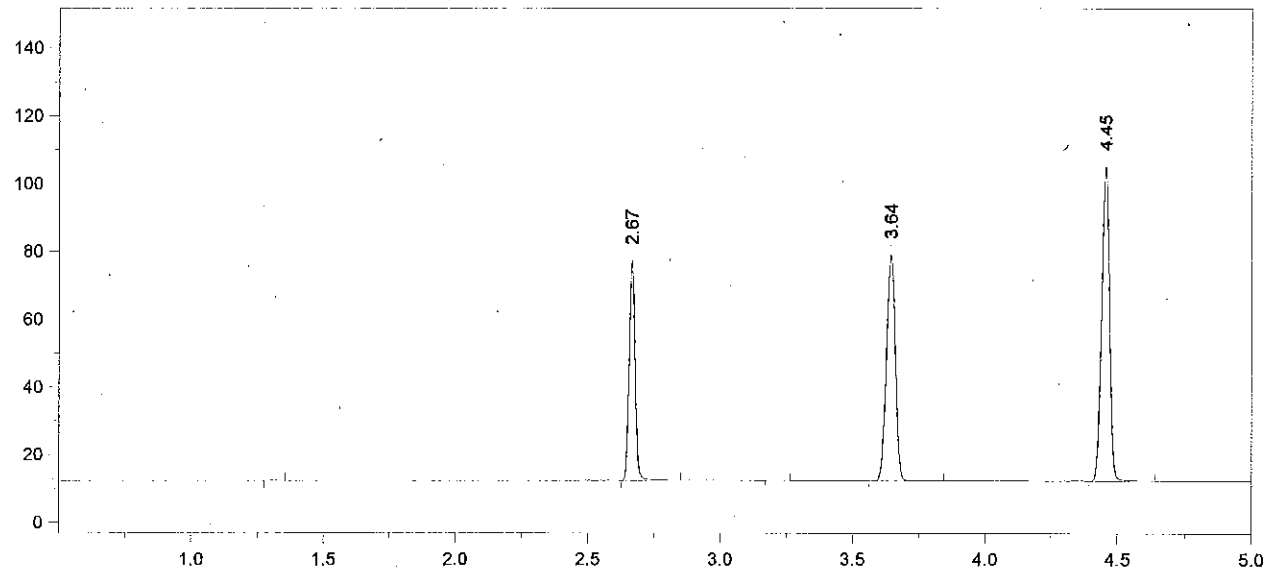
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	108266	0.0958	0.0782
4	3.64	t-Butanol	166478	1.0078	0.8225
5	4.45	n-Propanol	214144	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012
Today's Time = 8:50:01 AM
Bound File Name = SIM07062012.0082.RAW
Sample Name = ~~CES~~ KW 7/12/12 .08 ALB
Date Taken = 7/11/2012 7:07:41 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal
Calibration Version = 2

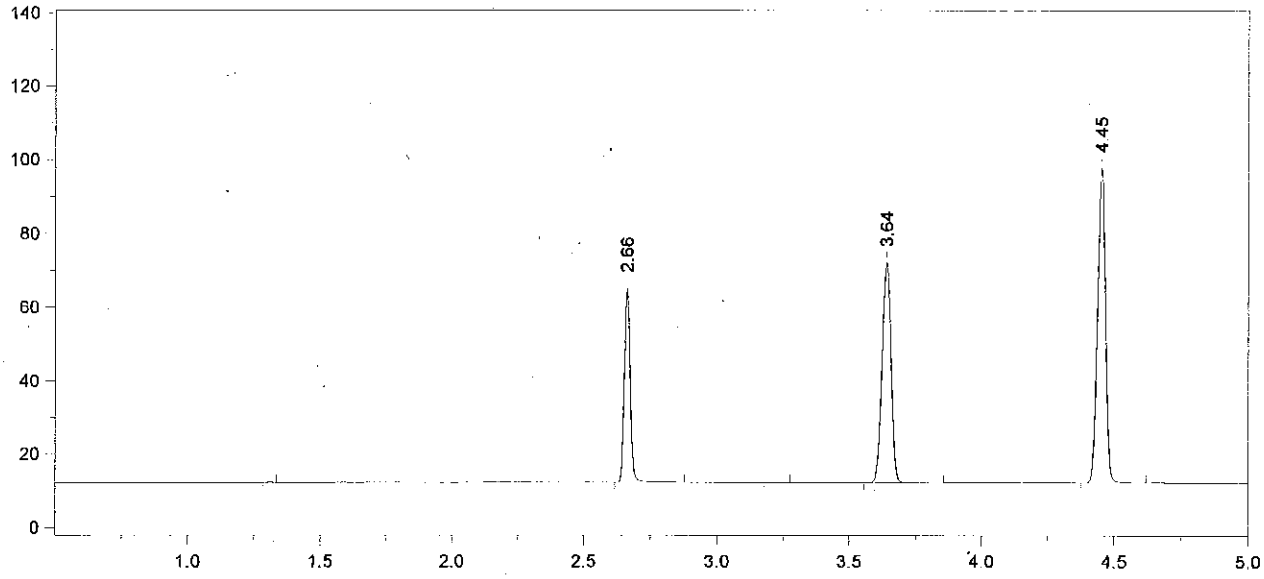
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	96318	0.0969	0.0791
4	3.64	t-Butanol	142474	0.9806	0.8003
5	4.45	n-Propanol	188352	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012
Today's Time = 8:50:09 AM
Bound File Name = SIM07062012.0083.RAW
Sample Name = ~~C05~~ KW 7/12/12 .08 ALB
Date Taken = 7/11/2012 7:23:49 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal
Calibration Version = 2

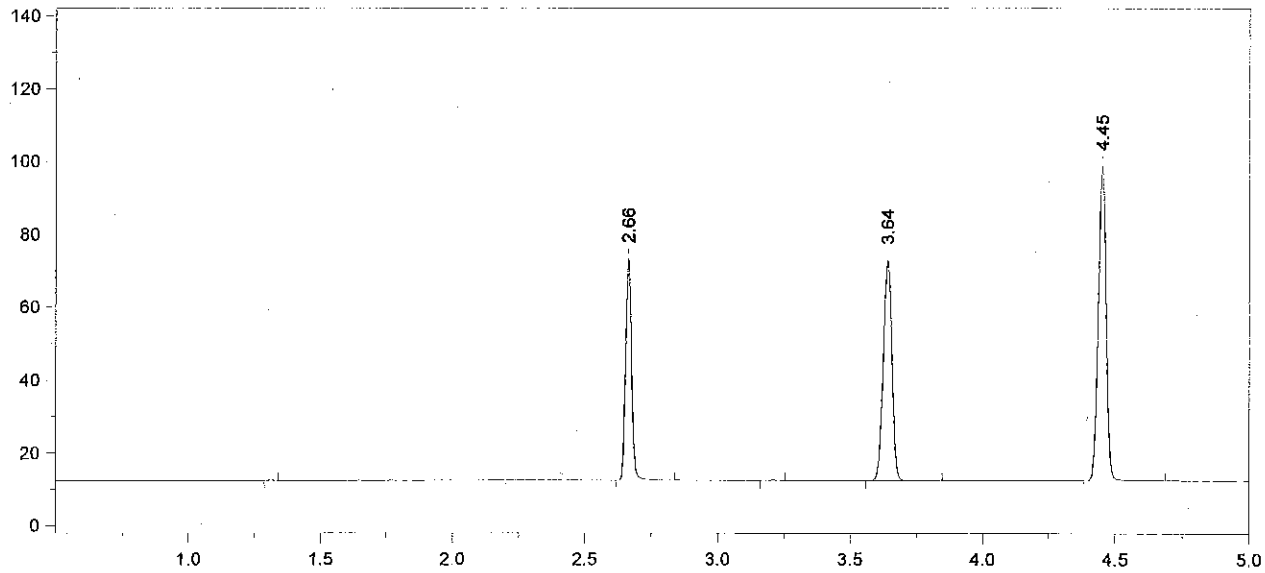
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	100005	0.0963	0.0786
4	3.64	t-Butanol	153944	1.0139	0.8276
5	4.45	n-Propanol	196818	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012
Today's Time = 8:50:17 AM
Bound File Name = SIM07062012.0084.RAW
Sample Name = CCS
Date Taken = 7/11/2012 7:38:15 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal
Calibration Version = 2

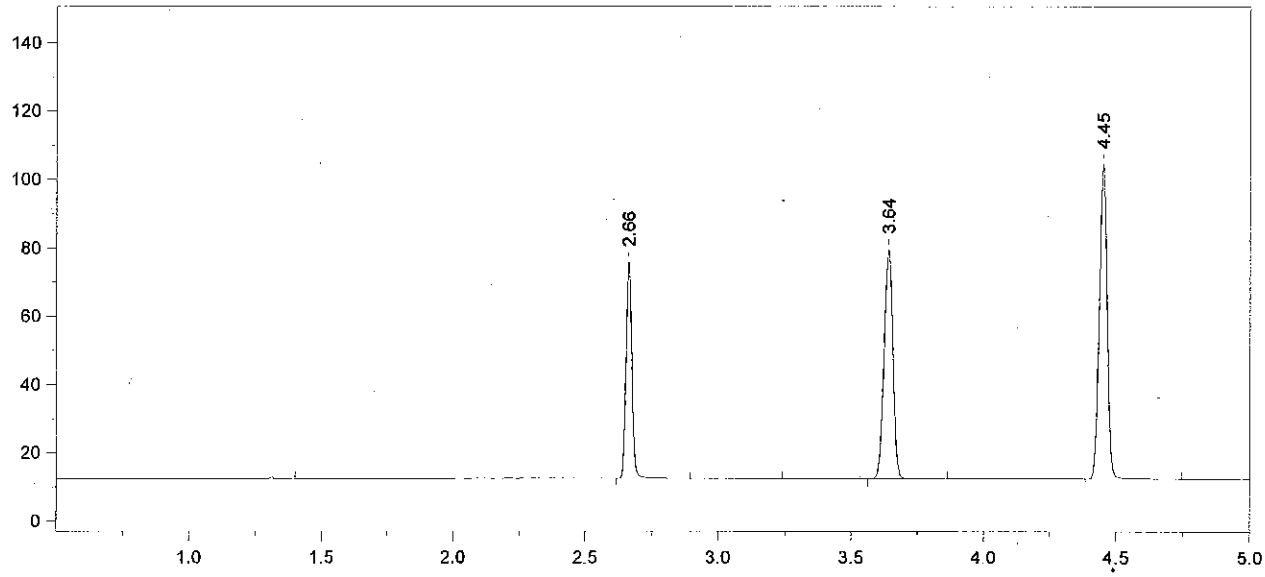
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	81677	0.0859 ✓	0.0701
4	3.64	t-Butanol	138162	0.9946	0.8118
5	4.45	n-Propanol	180071	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012 Today's Time = 8:50:25 AM
Bound File Name = SIM07062012.0085.RAW
Sample Name = ~~ccs~~ 0.08 KW 7/12/12 ab
Date Taken = 7/11/2012 8:08:54 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal Calibration Version = 2

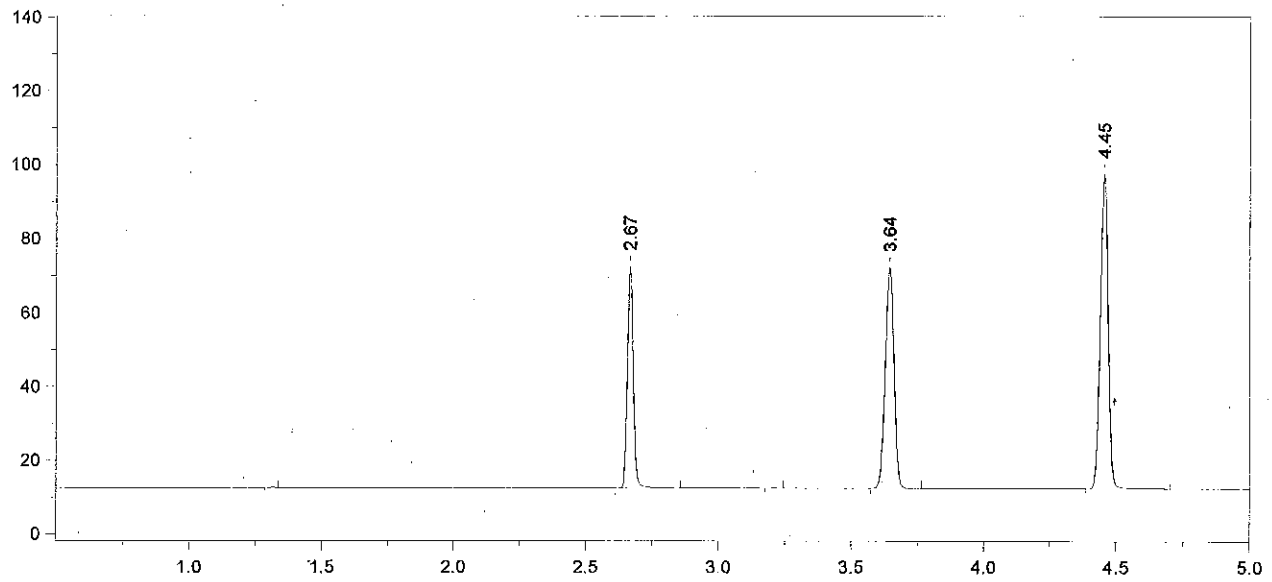
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	93260	0.0963	0.0786
4	3.64	t-Butanol	139263	0.9843	0.8034
5	4.45	n-Propanol	183403	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012 Today's Time = 8:50:32 AM
Bound File Name = SIM07062012.0086.RAW
Sample Name = ~~.05~~ KW 7/12/12 .08 KW
Date Taken = 7/11/2012 8:26:38 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal Calibration Version = 2

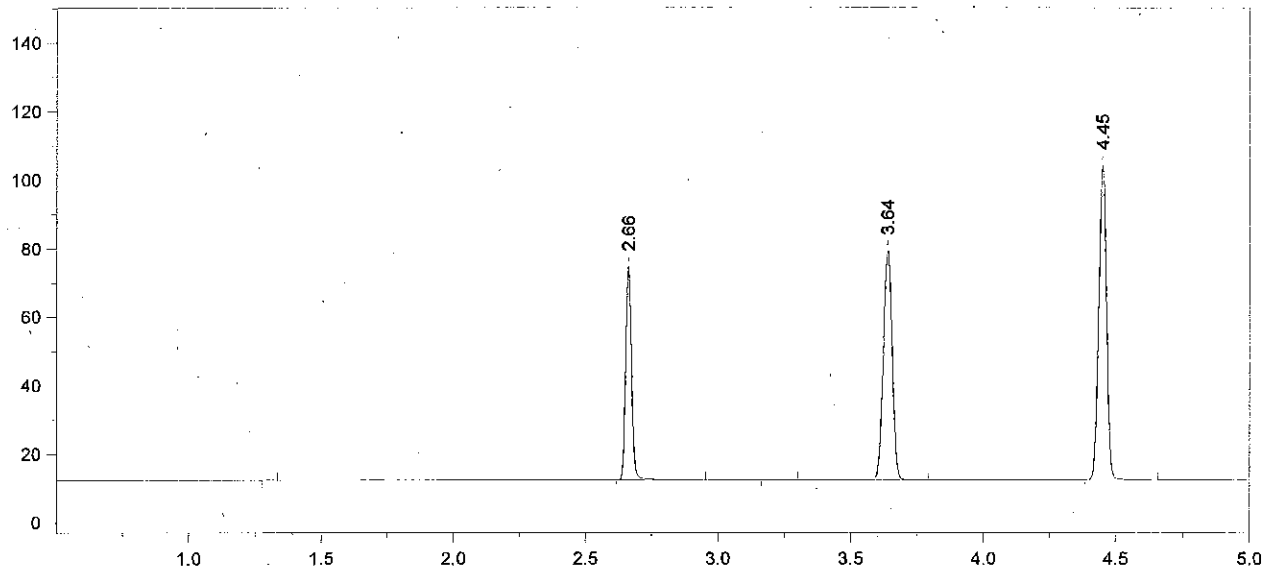
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	96773	0.0942	0.0769
4	3.64	t-Butanol	154598	1.0291	0.8400
5	4.45	n-Propanol	194732	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012
Today's Time = 8:50:40 AM
Bound File Name = SIM07062012.0087.RAW
Sample Name = ~~C05~~ KW 7/12/12 .08 KW
Date Taken = 7/11/2012 8:40:24 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal
Calibration Version = 2

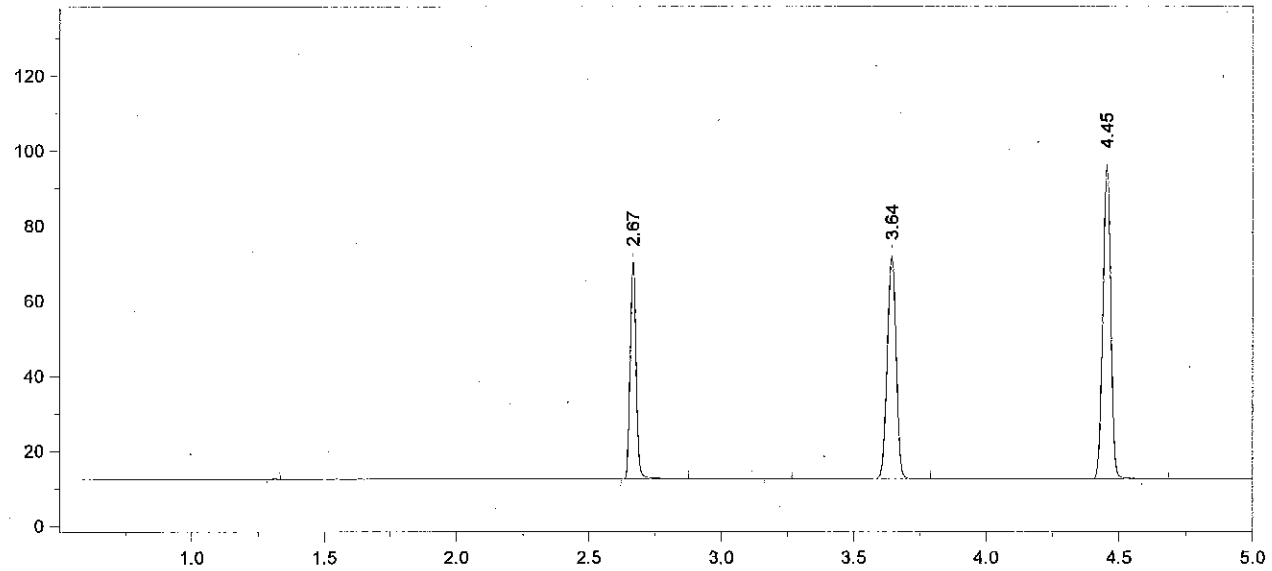
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	92114	0.0964	0.0787
4	3.64	t-Butanol	137435	0.9839	0.8031
5	4.45	n-Propanol	181068	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012
Today's Time = 8:50:47 AM
Bound File Name = SIM07062012.0088.RAW
Sample Name = ~~.05~~ KW 7/12/12 .08 KW
Date Taken = 7/11/2012 8:58:05 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal
Calibration Version = 2

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	96575	0.0943	0.0770
4	3.64	t-Butanol	154767	1.0343	0.8442
5	4.45	n-Propanol	193977	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012
Today's Time = 8:50:56 AM
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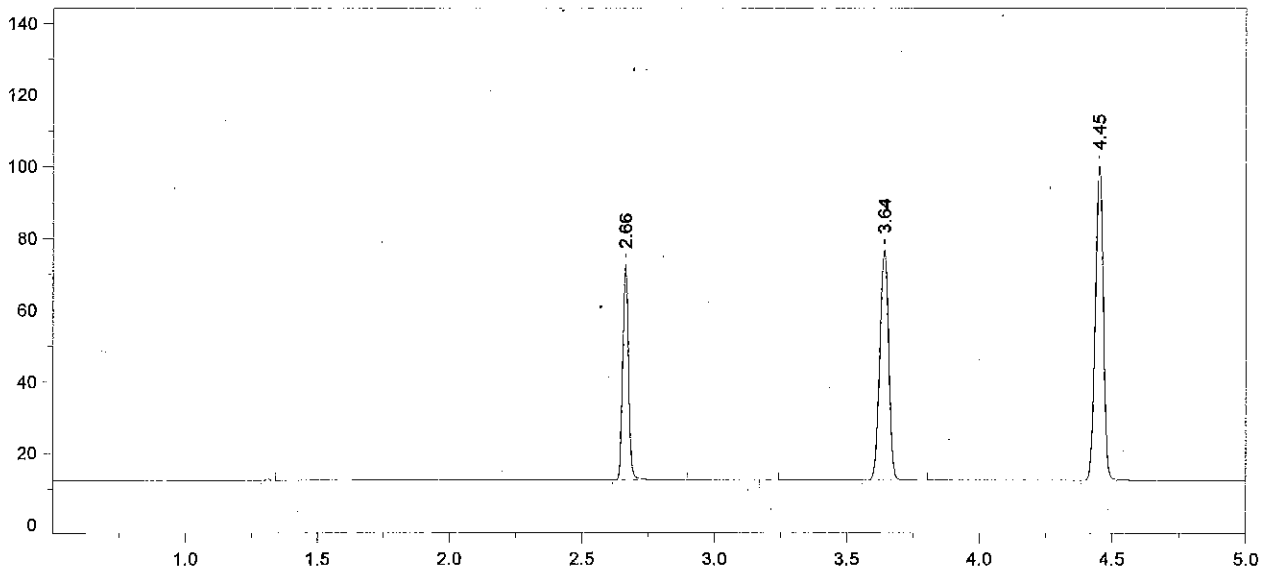
Sample Name = ~~.005~~ KW 7/12/12 .08 KW
Date Taken = 7/11/2012 9:12:36 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal
Calibration Version = 2

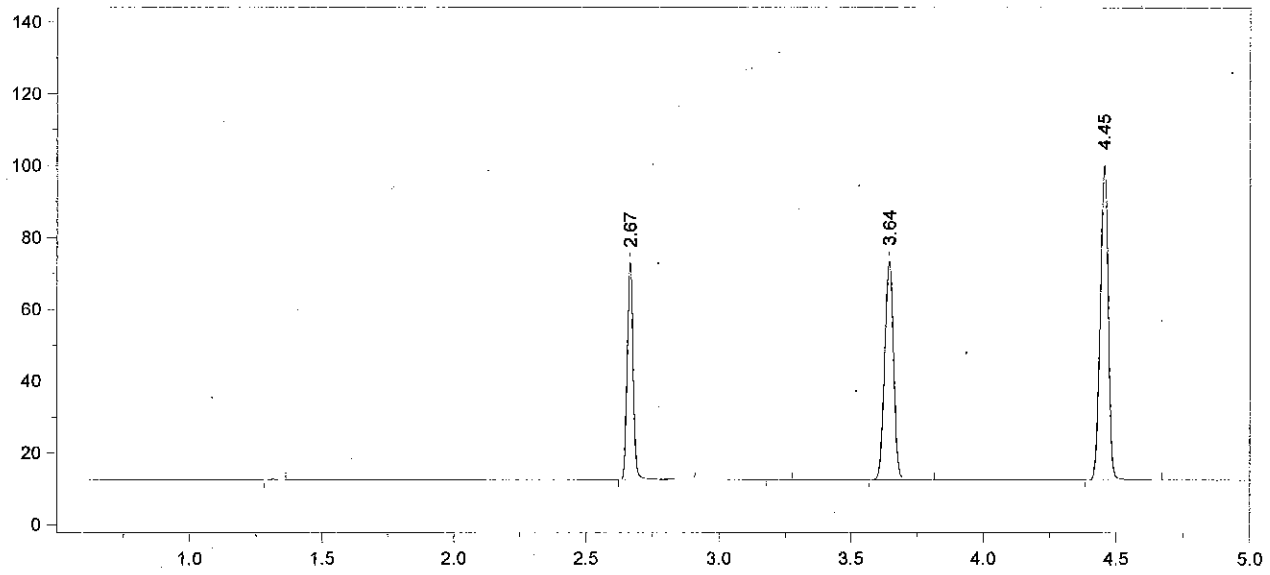
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	89441	0.0958	0.0782
4	3.64	t-Butanol	137184	1.0054	0.8206
5	4.45	n-Propanol	176873	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012
Today's Time = 8:51:03 AM
Bound File Name = SIM07062012.0090.RAW RCS
Sample Name = ~~C05~~ KW 7/12/12 ~~0.08 KW~~ 0.08 KW
Date Taken = 7/11/2012 9:29:29 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal
Calibration Version = 2

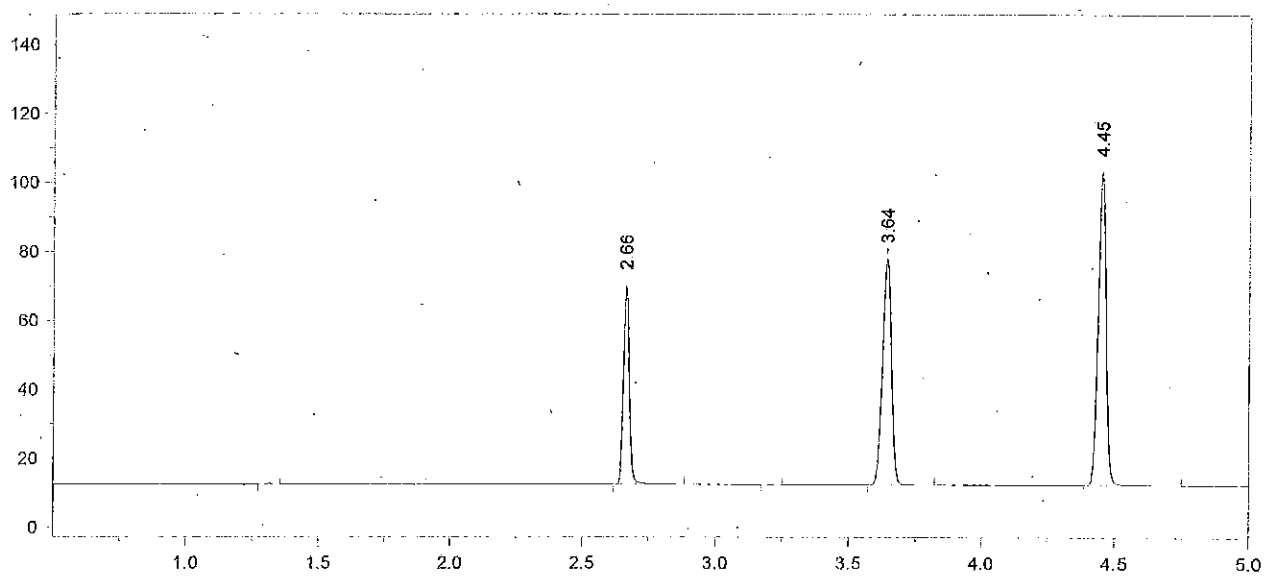
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	92510	0.0942	0.0769
4	3.64	t-Butanol	148510	1.0348	0.8446
5	4.45	n-Propanol	186033	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012
Today's Time = 8:51:11 AM
Bound File Name = SIM07062012.0091.RAW
Sample Name = ~~CO5~~ KW 7/12/12 .08 KW
Date Taken = 7/11/2012 9:43:09 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal
Calibration Version = 2

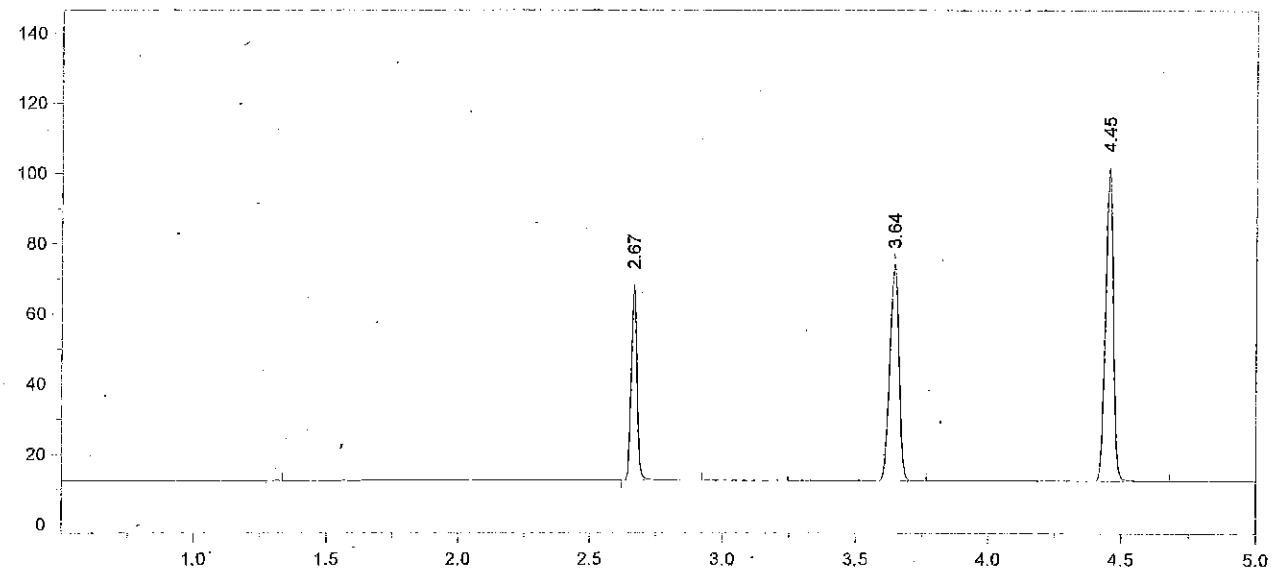
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	94004	0.0963	0.0786
4	3.64	t-Butanol	140489	0.9844	0.8034
5	4.45	n-Propanol	185009	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012 Today's Time = 8:51:19 AM
Bound File Name = SIM07062012.0092.RAW
Sample Name = ~~CCS~~ KW 7/12/12 ~~4.08 KW~~ CCS
Date Taken = 7/11/2012 10:00:54 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal Calibration Version = 2

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	88765	0.0874 ✓	0.0713
4	3.64	t-Butanol	151622	1.0211	0.8334
5	4.45	n-Propanol	192490	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012 Today's Time = 8:51:27 AM
Bound File Name = SIM07062012.0093.RAW
Sample Name = CCS
Date Taken = 7/11/2012 10:14:41 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal Calibration Version = 2

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	85868	0.0860	0.0702
4	3.64	t-Butanol	142379	0.9761	0.7967
5	4.45	n-Propanol	189082	1.0000	0.8162