VERMONT FORENSIC LABORATORY

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Certificate of Analysis of DataMaster Certification Solution

On 7/10/2012, an ethanol solution was prepared by Amanda Bolduc for use as a DataMaster Certification solution. The solution was prepared per standard laboratory practice and assigned the lot number 12-83-160 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 0.157 g/210L simulated breath ethanol concentration and approved for use as a DataMaster Certification solution.

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

Amanda Bolduc

0.16 Certification Solution 2L
Lot # 12-83-160
Prepared 7/10/2012 by ALB/KW
Exp 7/10/2013

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

0.1561 alb
0.1609
0.1584
0.1625
0.1583
0.1617
0.1585
0.1616 kw
0.1590
0.1616
0.1579
0.1594
0.1562
0.1594

Ave. = 0.1594
Std Dev. = 0.0020
Range = 0.1561 - 0.1625

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

0.1523 alb
0.1579
0.1543
0.1579
0.1546
0.1570
0.1543
0.1573 kw
0.1537
0.1566
0.1535
0.1564
0.1535
0.1572

Ave. = 0.1555
Std Dev. = 0.0019
Range = 0.1523 - 0.1579

Total Values from Both Runs

Average	Mean
0.1561	0.1523
0.1609	0.1535
0.1584	
0.1625	0.1537
0.1583	0.1543
0.1617	
0.1585	0.1546
0.1616	0.1561
0.1590	0.1562
0.1616	0.1564
0.1579	0.1566
0.1594	0.1570
0.1562	0.1572
0.1594	0.1573
0.1523	0.1579
0.1579	
0.1543	
0.1579	0.1583
0.1546	0.1584
0.1570	0.1585
0.1543	0.1590
0.1573	0.1594
0.1537	
0.1566	0.1609
0.1535	0.1616
0.1564	
0.1535	0.1617
0.1572	0.1625

Ave. =	0.1574
Std Dev. =	0.0028
Range =	0.1523 - 0.1625
Mean =	0.1574
Mean Std Dev. =	0.0028
RPD (Mean to Ave.)=	0.00%

7/13/2012

Headspace Alcohol Analysis Standards Coversheet

Analyst: dlB 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~~ FN021111-03	~~0.100~~ 0.08	~~0.110~~ 0.072	~~0.090~~ 0.088 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

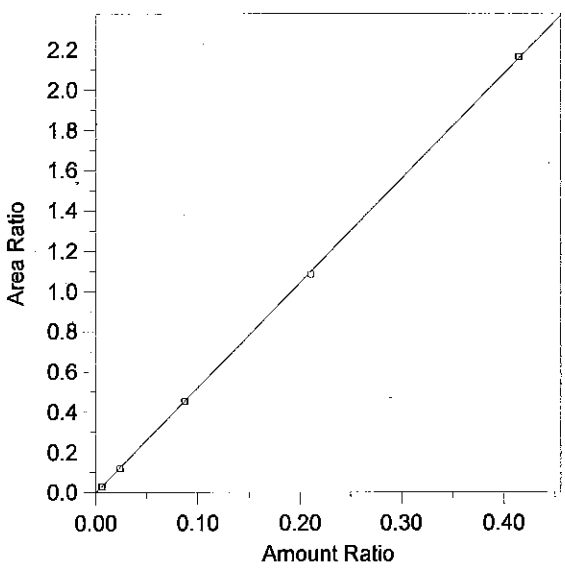
Creator:
Description:
Reason for change:

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

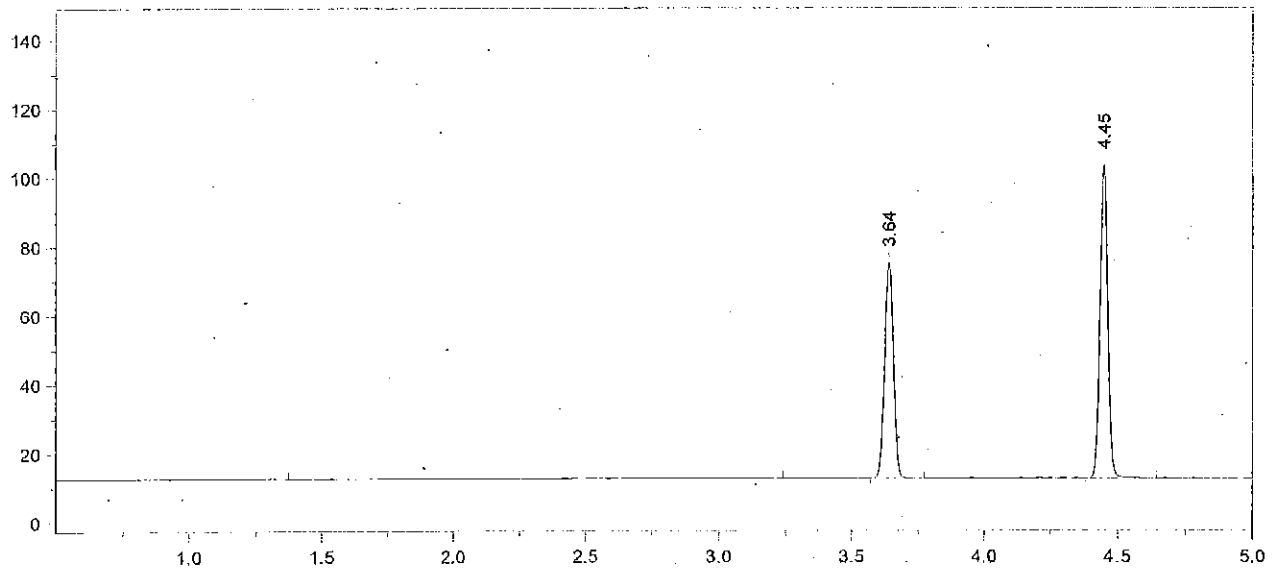
Single peak quantification by area

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%

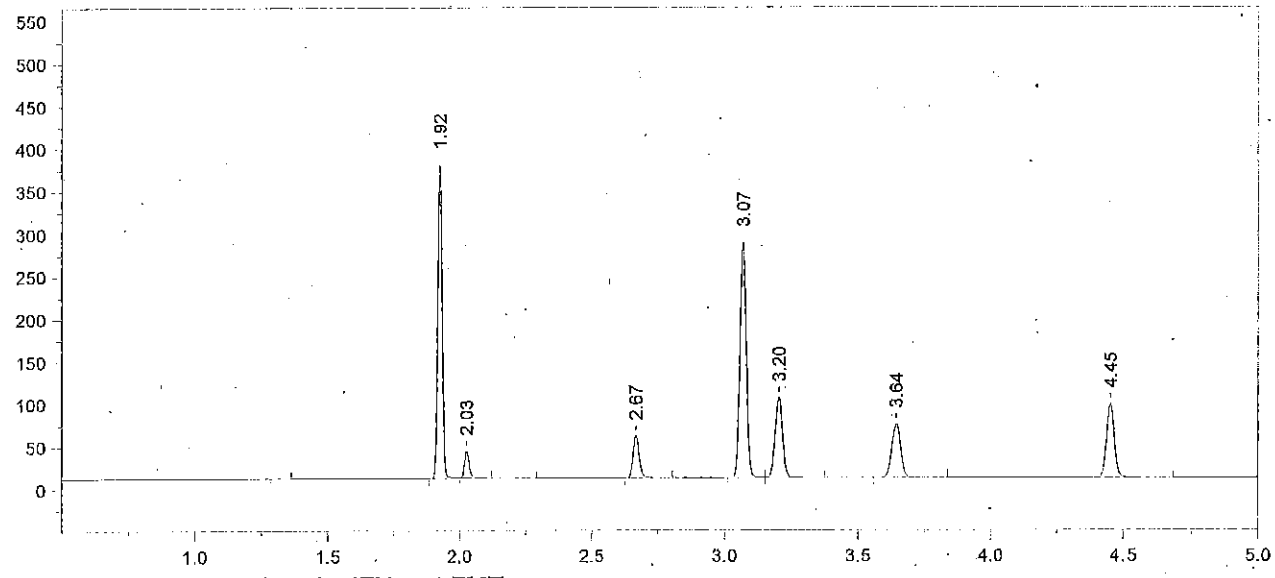
Level	Amount	Response	Cal Factor	Error, %	Amount Ratio	Response Ratio	Source	Date and time
1	(0.081)	(85146)	--	--	0.081	85146	Manual	5/11/2012 8:03:03 AM
2	0.0059	5313.044	900515.9	-7.320	0.0059	2.844629E-02	C:\Alcohol Data\SIM07102012\SIM07102012.0003.BND	7/11/2012 9:22:35 AM
3	0.0235	22009.46	936572.8	-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



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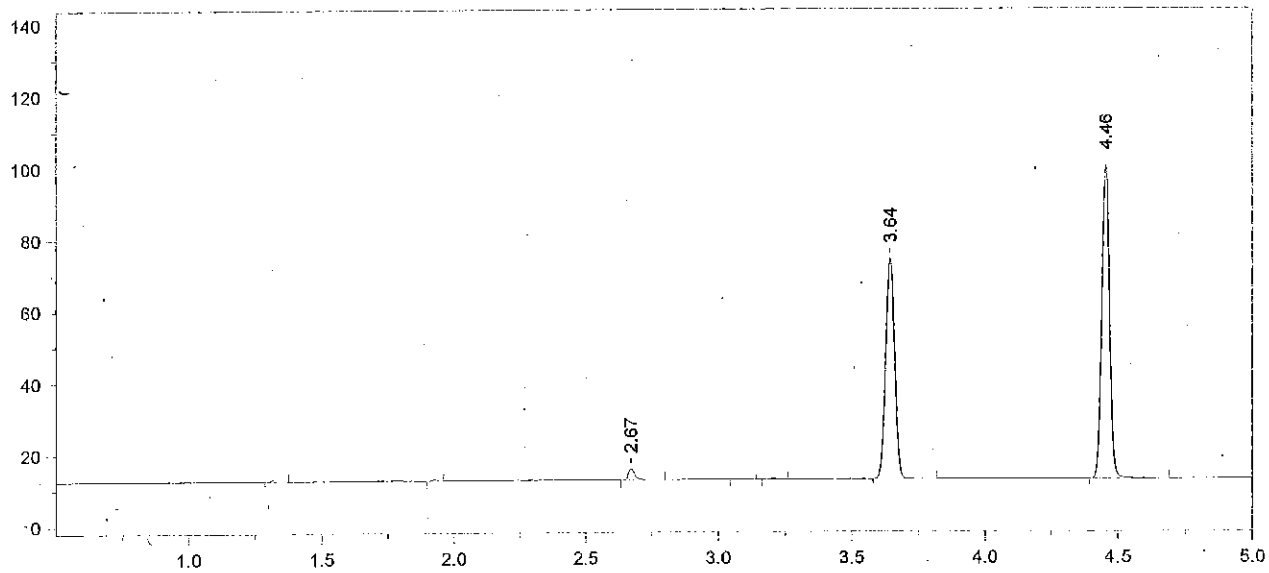
Today's Time = 9:26:36 AM
Bound File Name = SIM07102012.0002.RAW
Sample Name = TMX
Date Taken = 7/10/2012 2:54:41 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal
Calibration Version = 8

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



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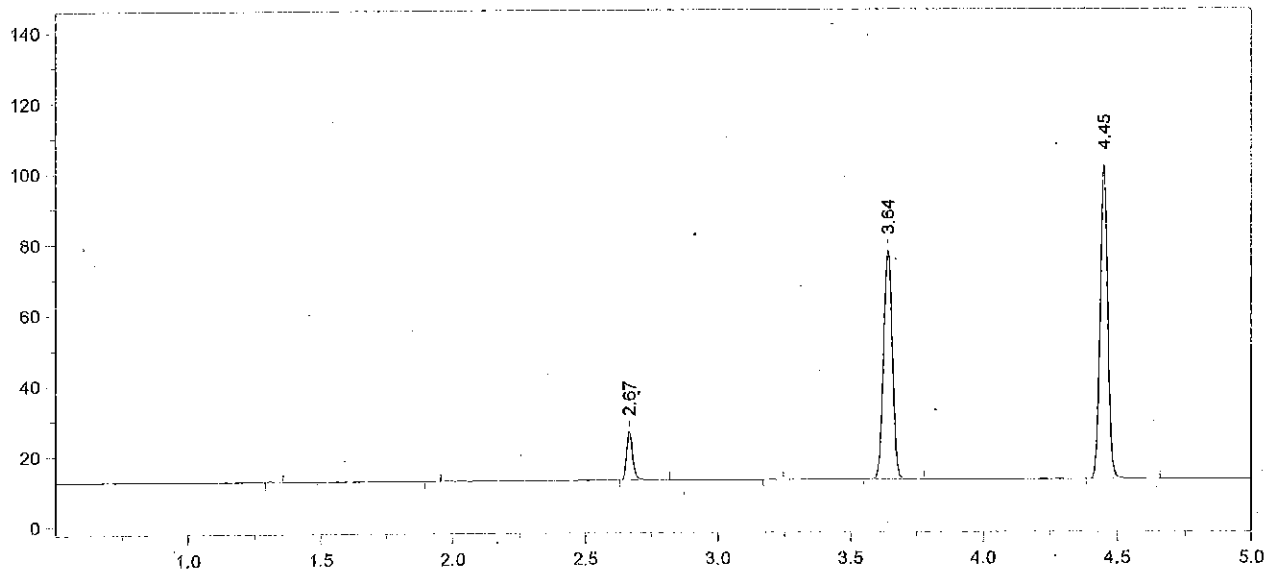
Today's Time = 9:26:47 AM
Bound File Name = SIM07102012.0003.RAW
Sample Name = STD A
Date Taken = 7/10/2012 3:08:34 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal
Calibration Version = 8

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



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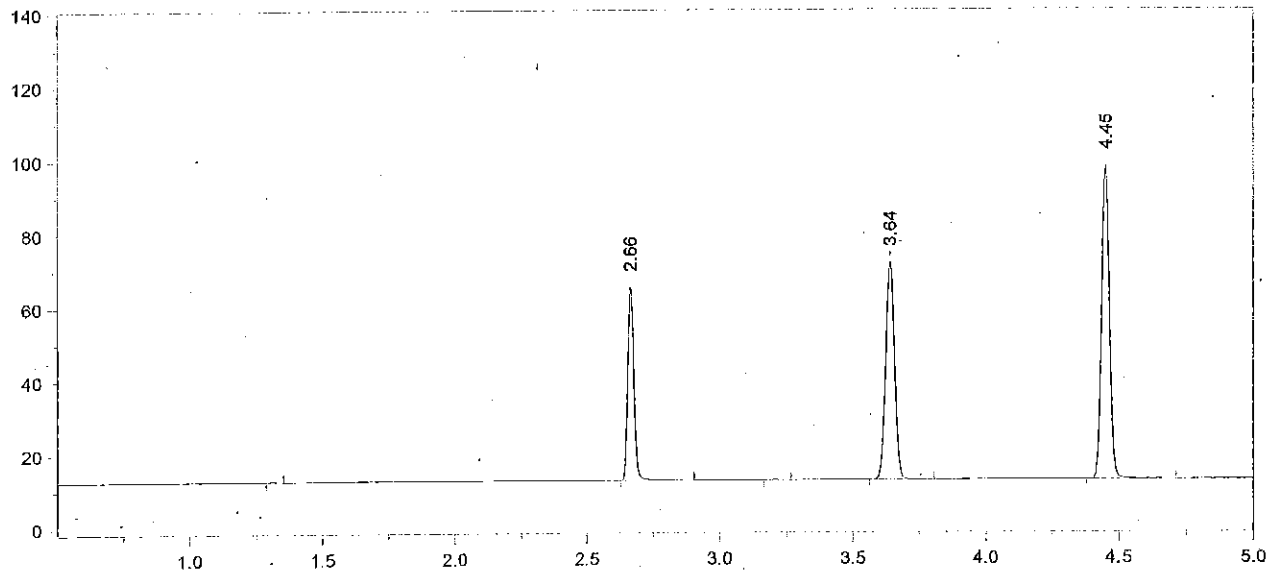
Today's Time = 9:26:57 AM
Bound File Name = SIM07102012.0004.RAW
Sample Name = STD B
Date Taken = 7/10/2012 3:26:06 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal
Calibration Version = 8

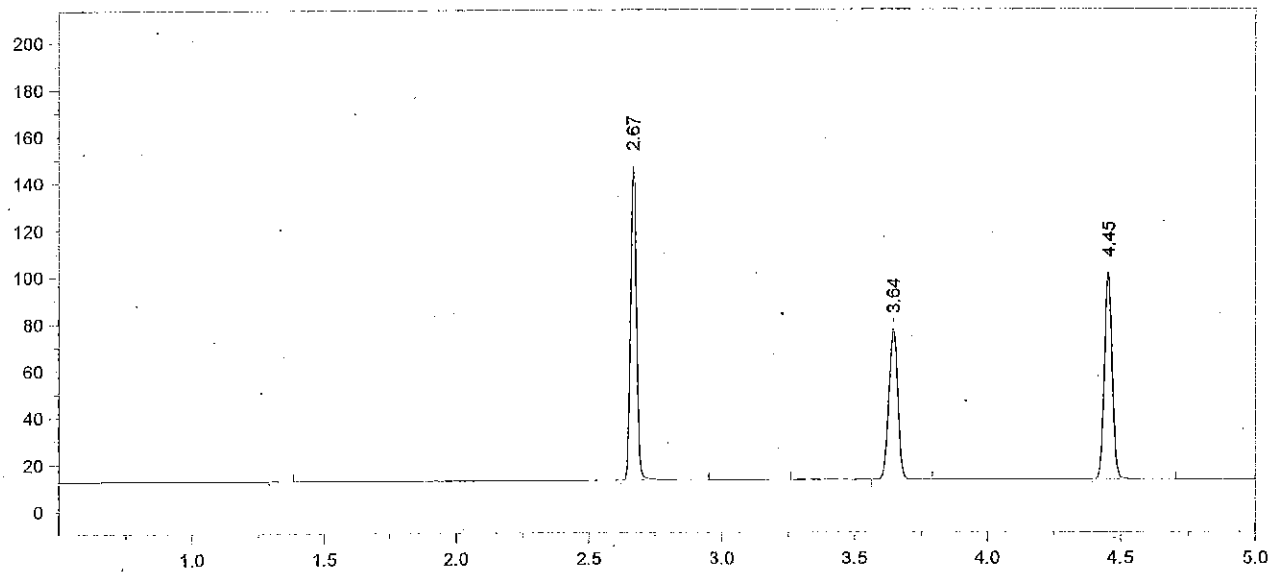
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.67	Ethanol	22009	0.0225	0.0184
5	3.64	t-Butanol	149855	1.0285	0.8395
6	4.45	n-Propanol	187755	1.0000	0.8162



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

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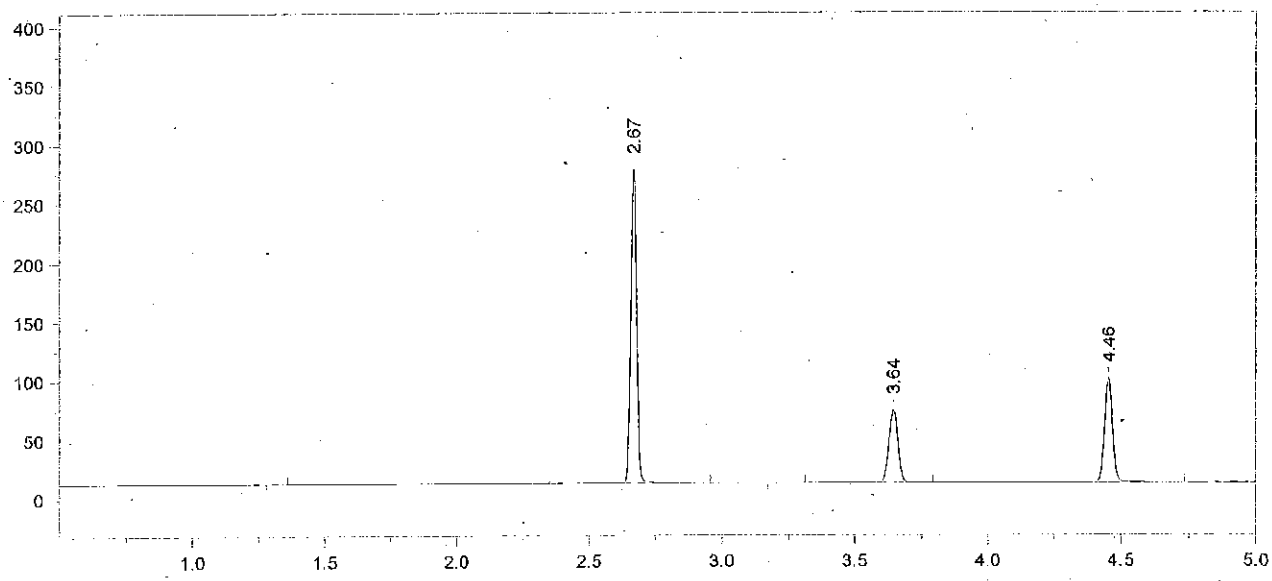
Today's Time = 9:27:13 AM
Bound File Name = SIM07102012.0006.RAW
Sample Name = STD D
Date Taken = 7/10/2012 3:57:32 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal
Calibration Version = 8

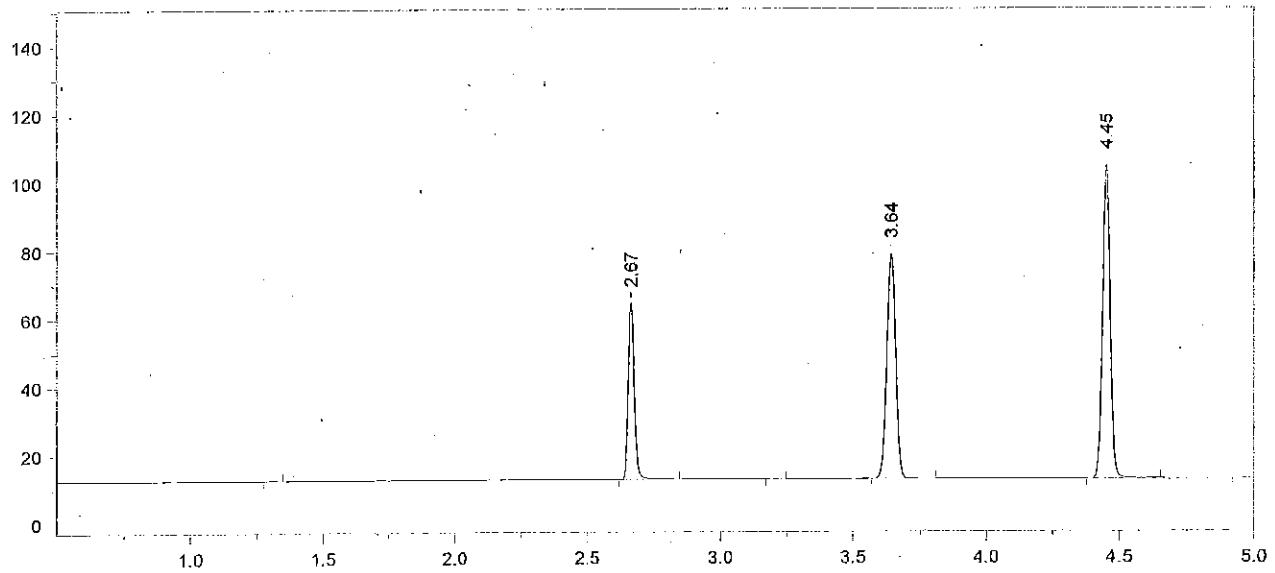
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	203152	0.2082	0.1699
4	3.64	t-Butanol	148245	1.0185	0.8313
5	4.45	n-Propanol	187564	1.0000	0.8162



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

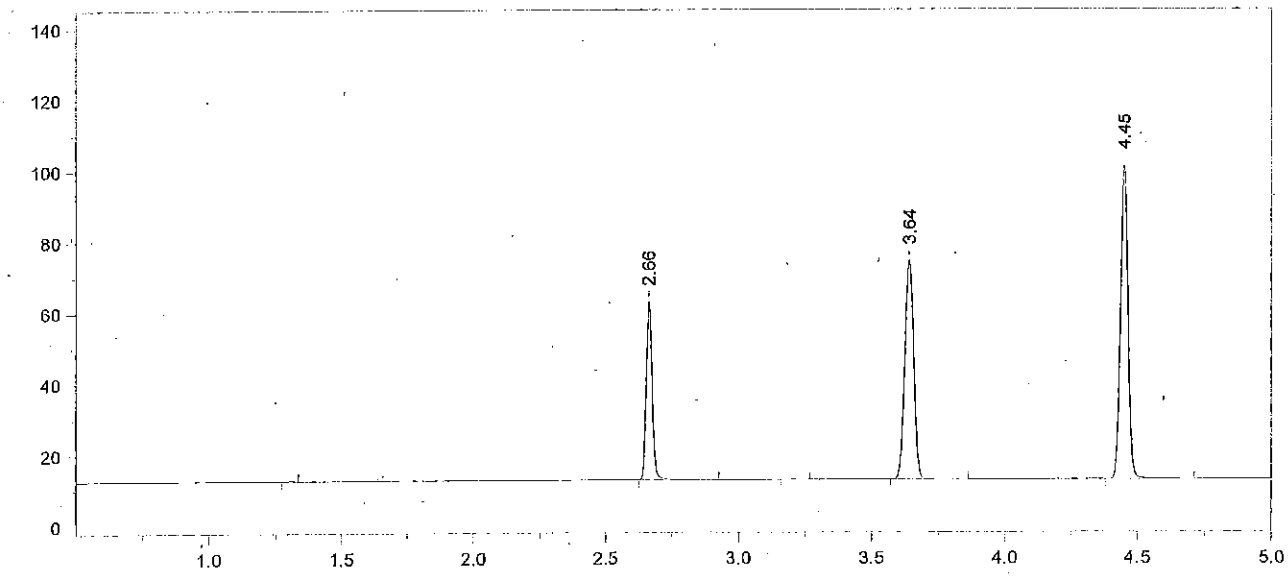
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	406981	0.4158	0.3394
4	3.64	t-Butanol	141652	0.9702	0.7919
5	4.46	n-Propanol	188149	1.0000	0.8162



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

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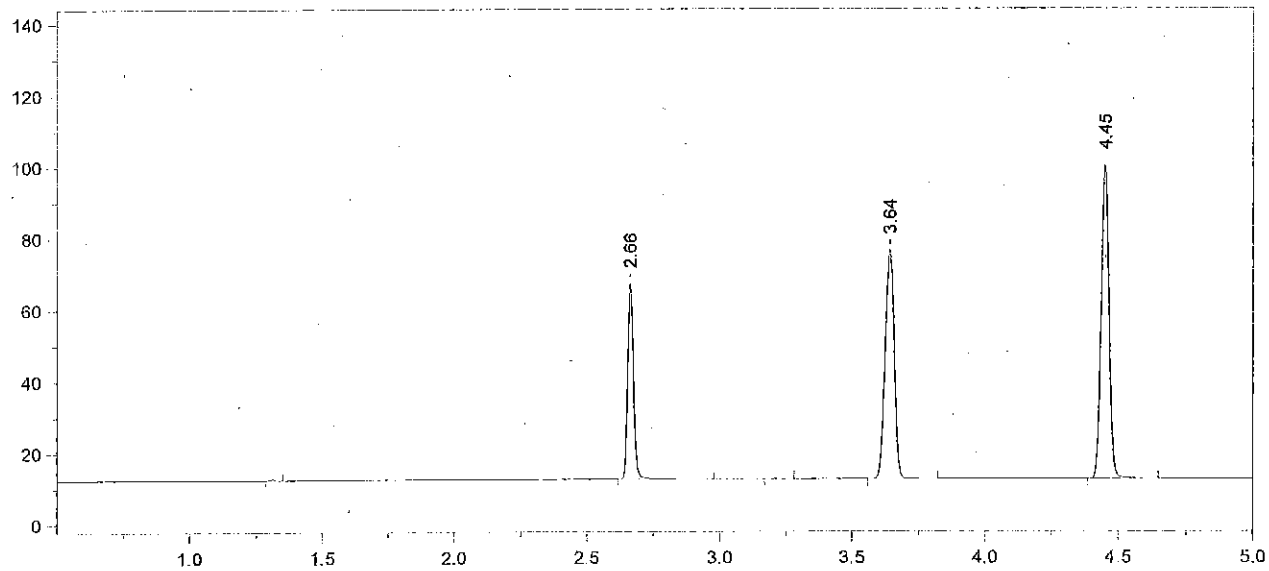
Today's Time = 9:27:42 AM
Bound File Name = SIM07102012.0009.RAW
Sample Name = AQ QC
Date Taken = 7/10/2012 4:42:42 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal
Calibration Version = 8

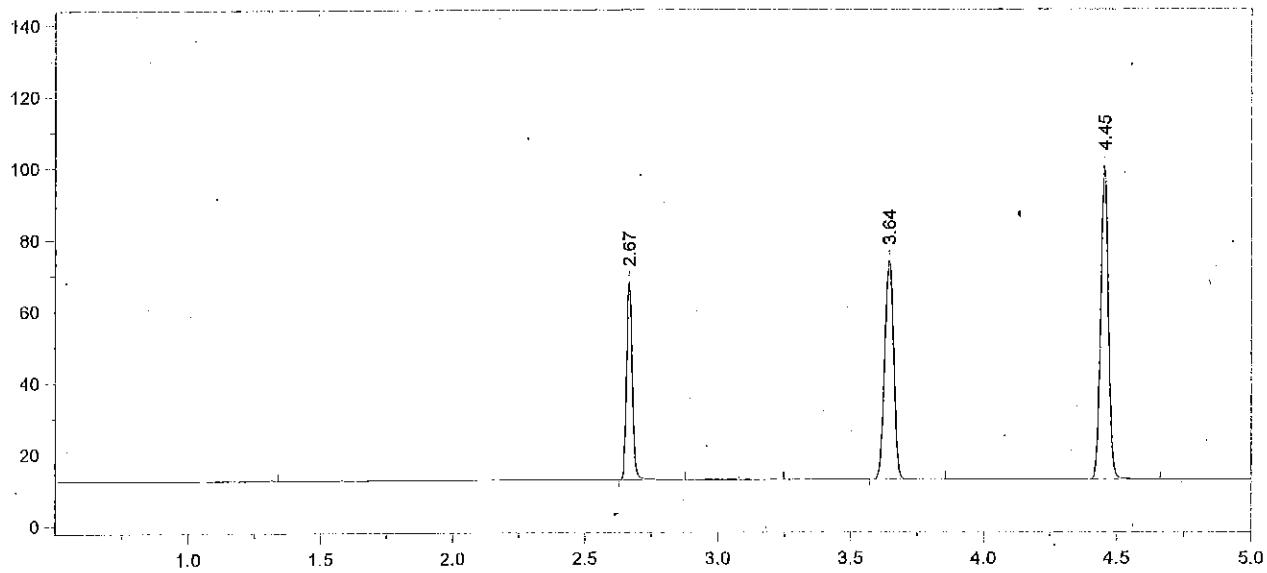
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	77430	0.0791	0.0646
4	3.64	t-Butanol	142892	0.9791	0.7991
5	4.45	n-Propanol	188063	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012
Today's Time = 9:30:15 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

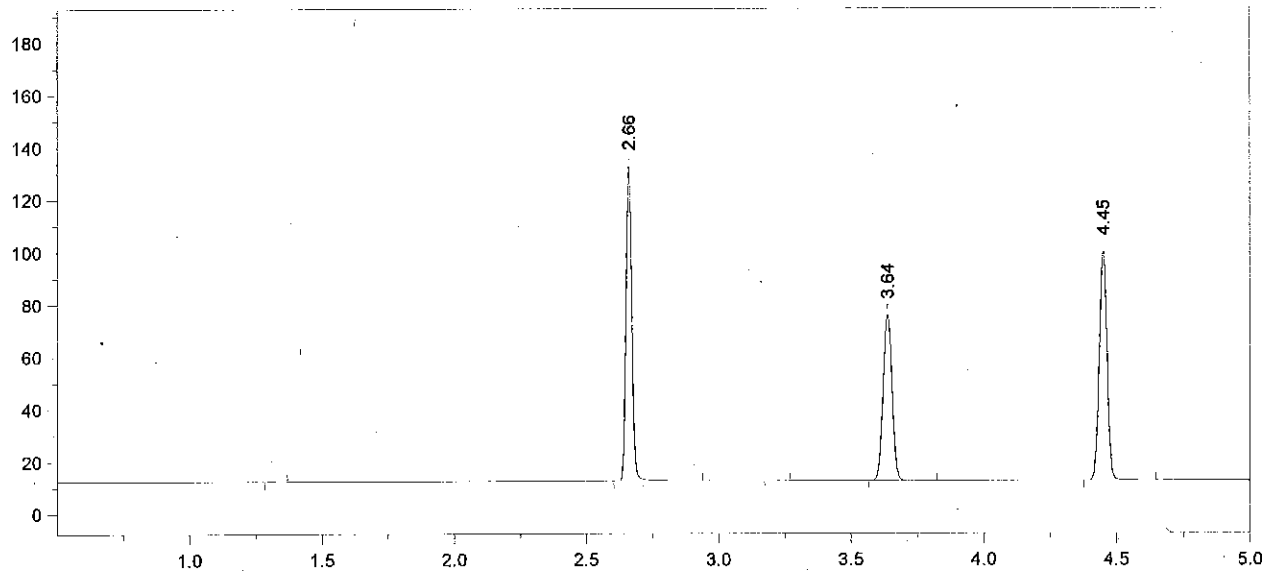
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	84076	0.0868	0.0708
4	3.64	t-Butanol	147305	1.0195	0.8321
5	4.45	n-Propanol	186198	1.0000	0.8162



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

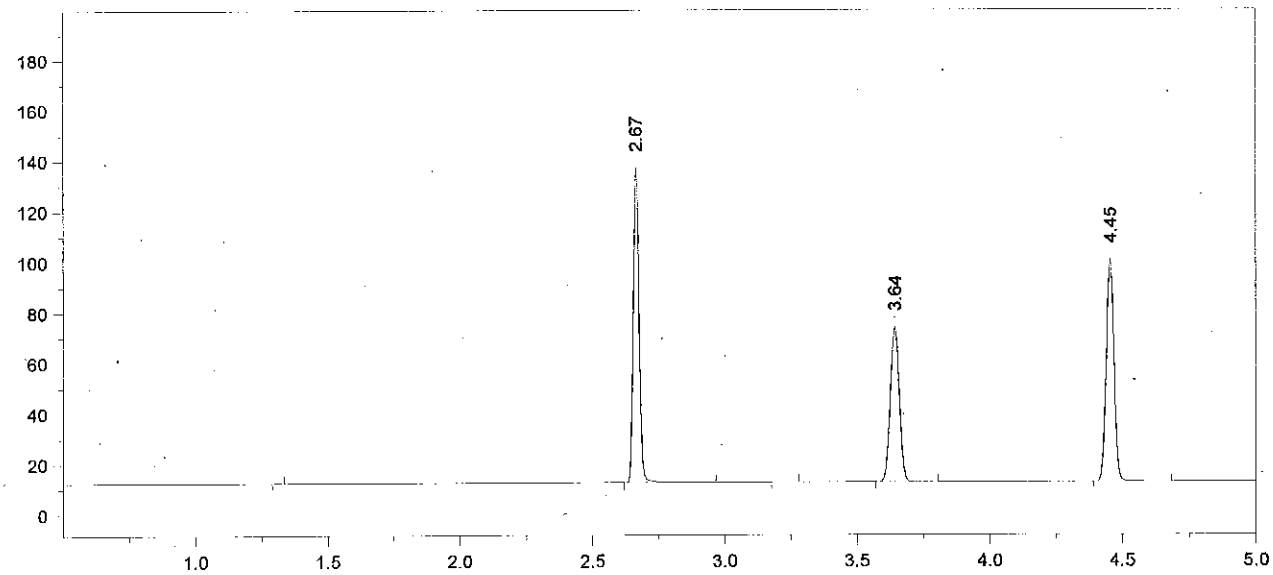
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	84922	0.0880	0.0718
4	3.64	t-Butanol	141233	0.9809	0.8006
5	4.45	n-Propanol	185536	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012
Today's Time = 9:30:30 AM
Bound File Name = SIM07102012.0030.RAW
Sample Name = .16 ALB
Date Taken = 7/10/2012 10:11:24 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal
Calibration Version = 8

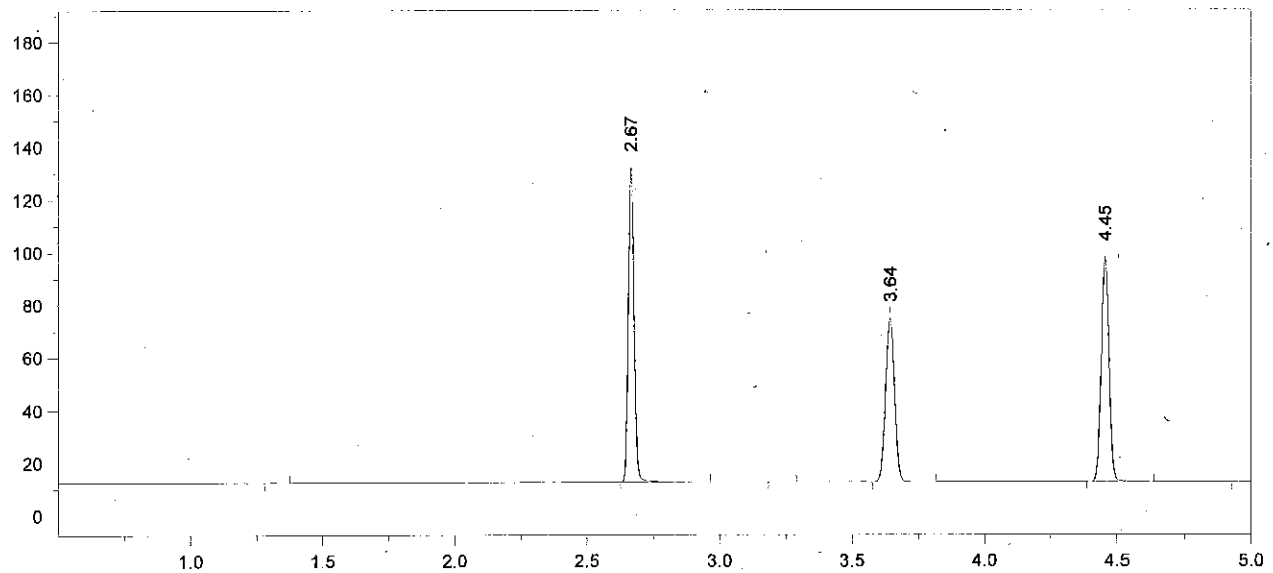
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	184044	0.1913	0.1561
4	3.64	t-Butanol	146938	1.0237	0.8355
5	4.45	n-Propanol	184966	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012
Today's Time = 9:30:37 AM
Bound File Name = SIM07102012.0031.RAW
Sample Name = .16 ALB
Date Taken = 7/10/2012 10:25:09 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal
Calibration Version = 8

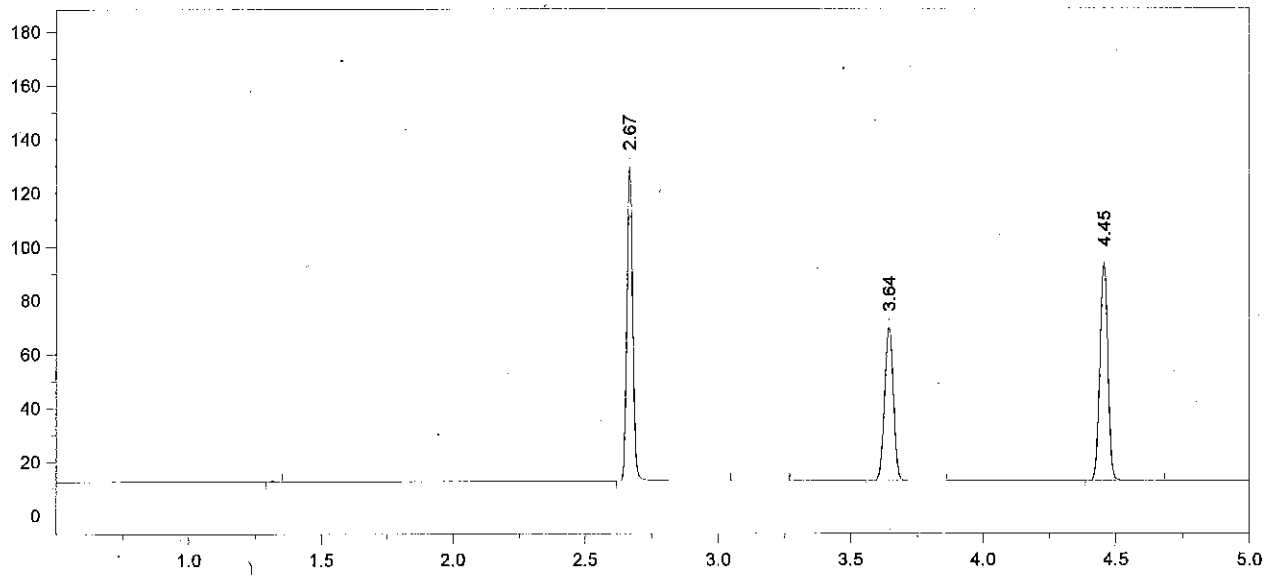
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	190895	0.1971	0.1609
4	3.64	t-Butanol	141590	0.9801	0.8000
5	4.45	n-Propanol	186163	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012
Today's Time = 9:30:45 AM
Bound File Name = SIM07102012.0032.RAW
Sample Name = .16 ALB
Date Taken = 7/10/2012 10:42:53 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	182017	0.1941	0.1584
4	3.64	t-Butanol	143810	1.0282	0.8392
5	4.45	n-Propanol	180237	1.0000	0.8162



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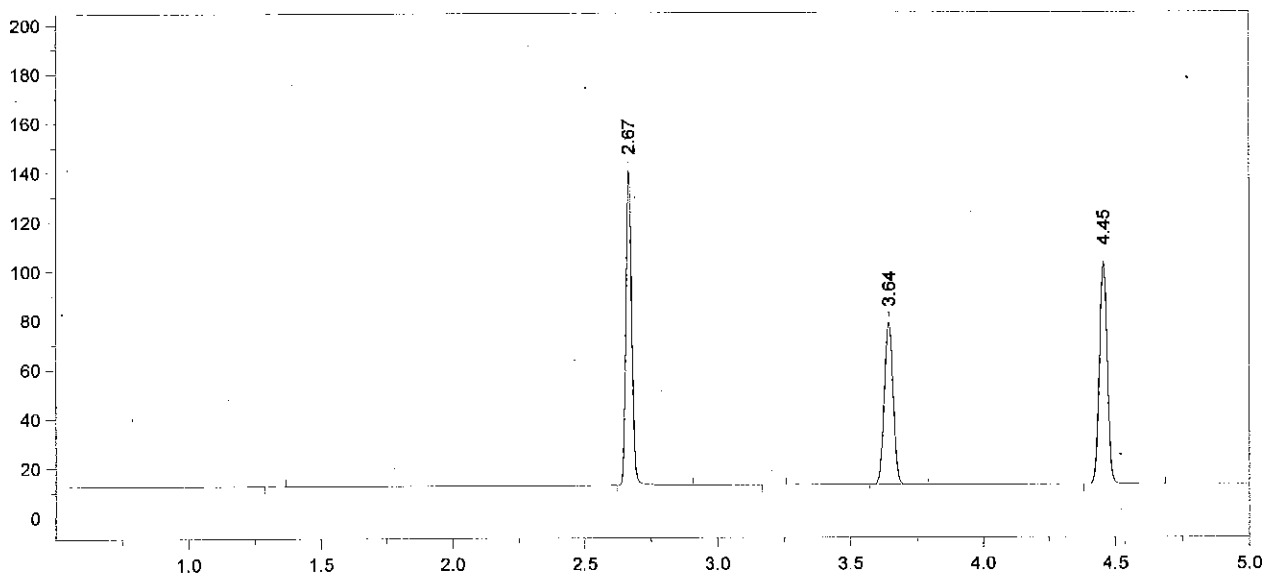
Today's Date = 7/11/2012
Today's Time = 9:30:53 AM
Bound File Name = SIM07102012.0033.RAW
Sample Name = .16 ALB
Date Taken = 7/10/2012 10:56:41 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal
Calibration Version = 8

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	178279	0.1992	0.1625
4	3.64	t-Butanol	132261	0.9904	0.8084
5	4.45	n-Propanol	172080	1.0000	0.8162



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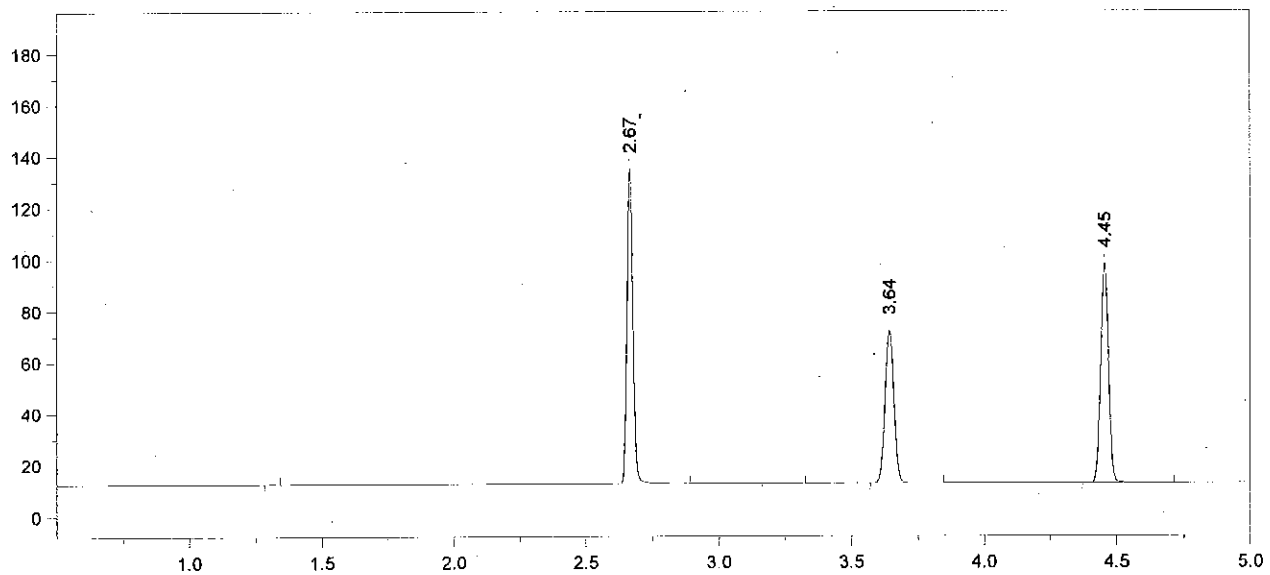
Today's Date = 7/11/2012
Today's Time = 9:31:01 AM
Bound File Name = SIM07102012.0034.RAW
Sample Name = .16 ALB
Date Taken = 7/10/2012 11:14:20 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal
Calibration Version = 8

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	193431	0.1940	0.1583
4	3.64	t-Butanol	151701	1.0197	0.8323
5	4.45	n-Propanol	191707	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

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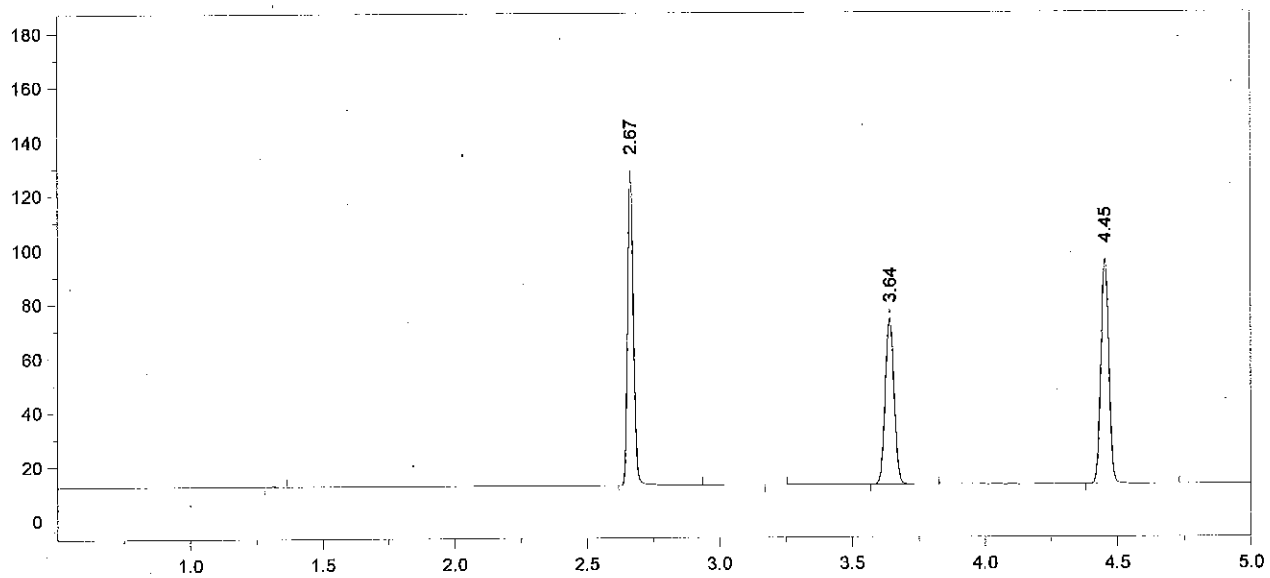
Today's Time = 9:31:09 AM
Bound File Name = SIM07102012.0035.RAW
Sample Name = .16 ALB
Date Taken = 7/10/2012 11:27:35 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal
Calibration Version = 8

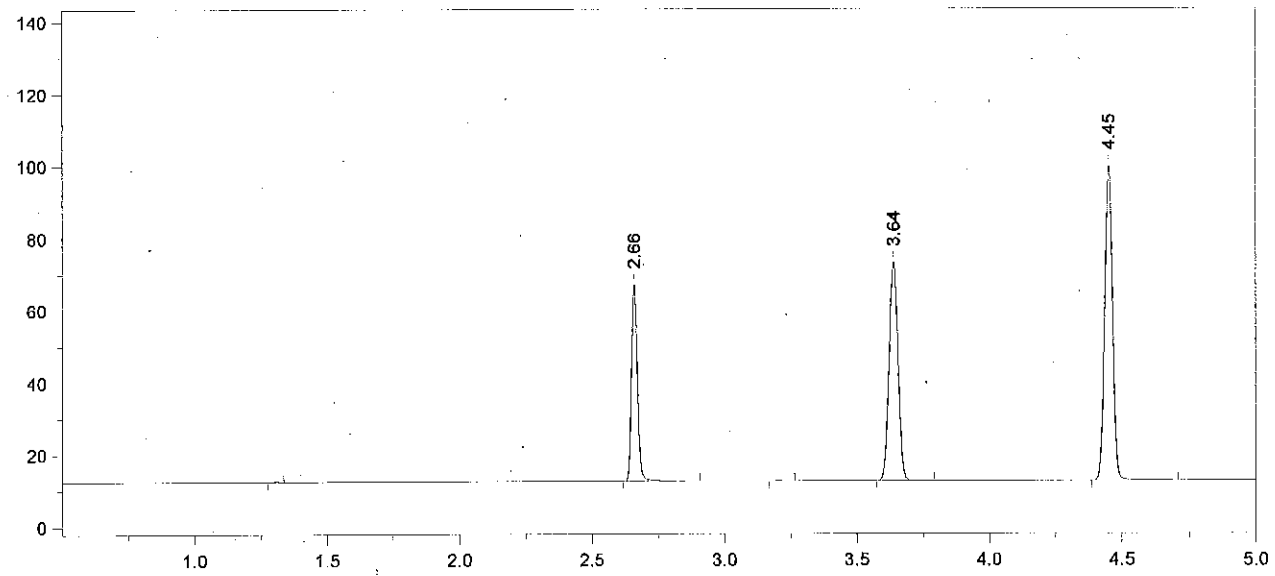
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	185930	0.1981	0.1617
4	3.64	t-Butanol	136882	0.9776	0.7979
5	4.45	n-Propanol	180424	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012
Today's Time = 9:31:17 AM
Bound File Name = SIM07102012.0036.RAW
Sample Name = .16 ALB
Date Taken = 7/10/2012 11:45:45 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal
Calibration Version = 8

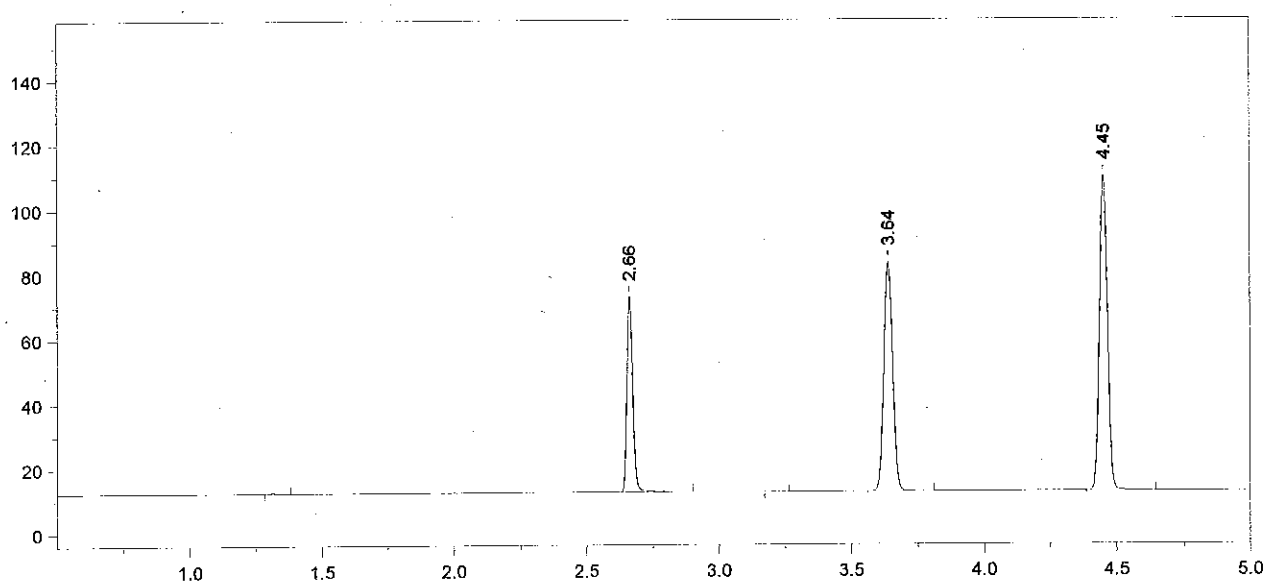
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	178223	0.1942	0.1585
4	3.64	t-Butanol	140946	1.0295	0.8403
5	4.45	n-Propanol	176417	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012
Today's Time = 9:31:24 AM
Bound File Name = SIM07102012.0037.RAW
Sample Name = CCS
Date Taken = 7/10/2012 11:59:28 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal
Calibration Version = 8

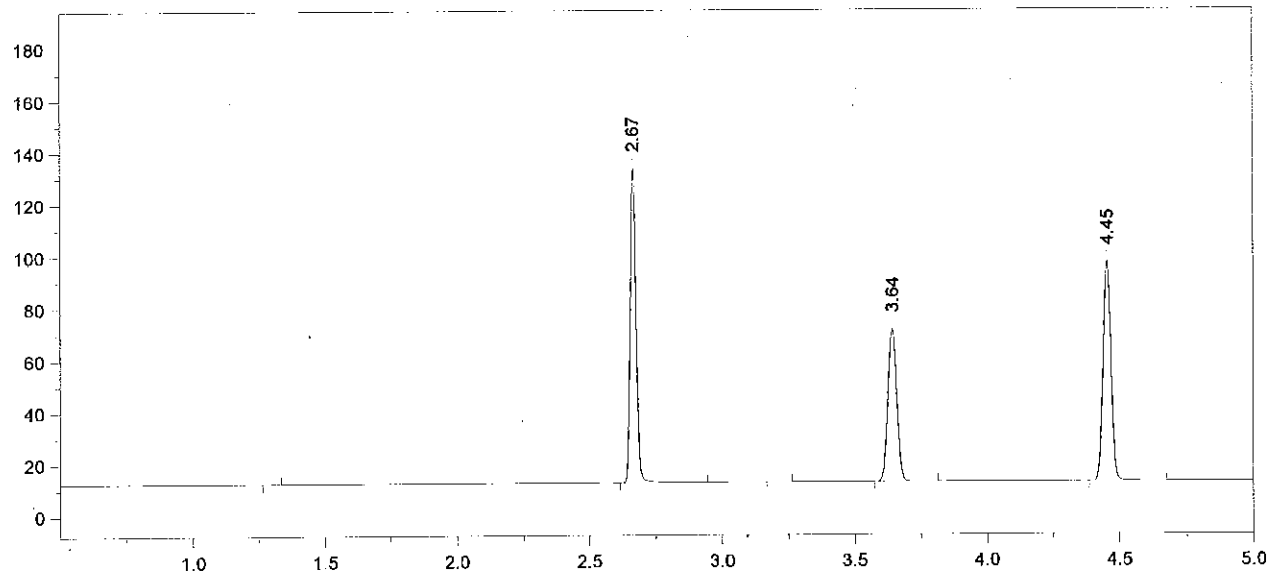
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	84683	0.0884	0.0722
4	3.64	t-Butanol	139869	0.9789	0.7990
5	4.45	n-Propanol	184125	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012
Today's Time = 9:31:31 AM
Bound File Name = SIM07102012.0038.RAW
Sample Name = CCS
Date Taken = 7/11/2012 12:15:31 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal
Calibration Version = 8

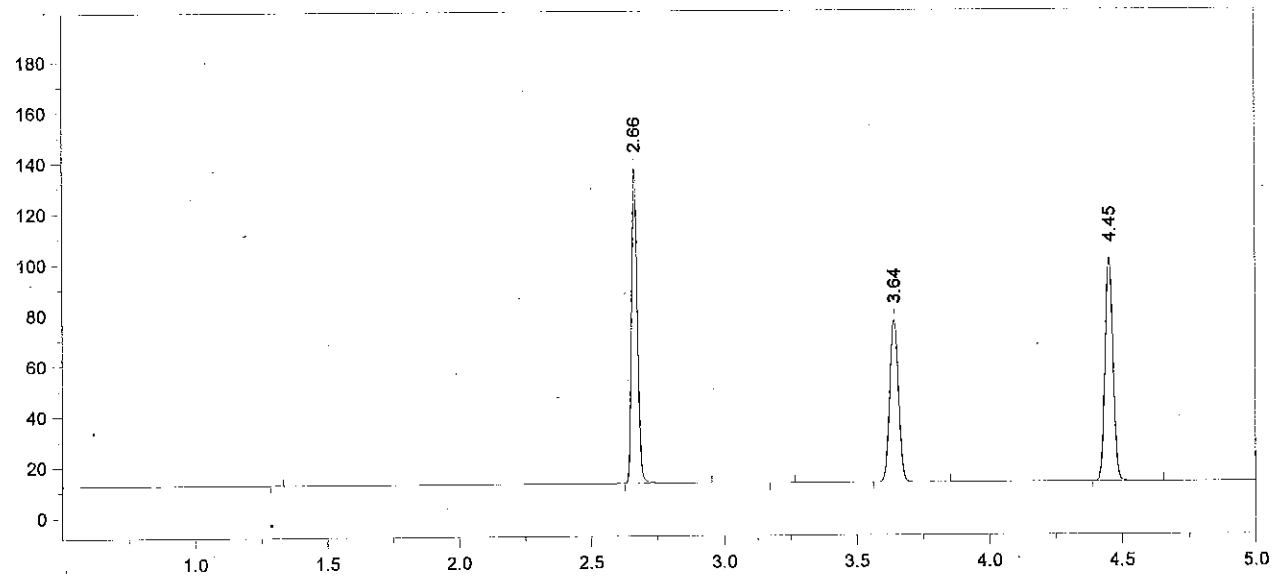
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	92740	0.0863 ✓	0.0705
4	3.64	t-Butanol	163420	1.0199	0.8325
5	4.45	n-Propanol	206475	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012
Today's Time = 9:31:39 AM
Bound File Name = SIM07102012.0039.RAW
Sample Name = .16 KW
Date Taken = 7/11/2012 12:30:57 AM
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	184764	0.1980	0.1616
4	3.64	t-Butanol	136240	0.9787	0.7988
5	4.45	n-Propanol	179392	1.0000	0.8162

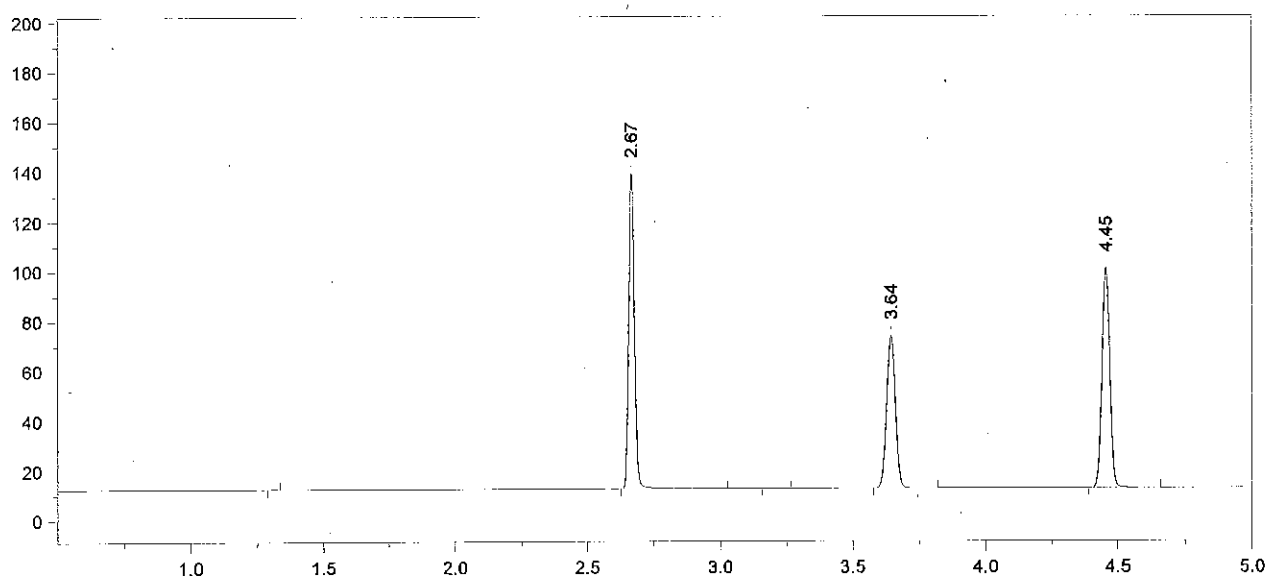


Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012
Today's Time = 9:31:47 AM
Bound File Name = SIM07102012.0040.RAW
Sample Name = .16 KW
Date Taken = 7/11/2012 12:45:20 AM
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	189978	0.1948	0.1590
4	3.64	t-Butanol	148580	1.0212	0.8335
5	4.45	n-Propanol	187492	1.0000	0.8162

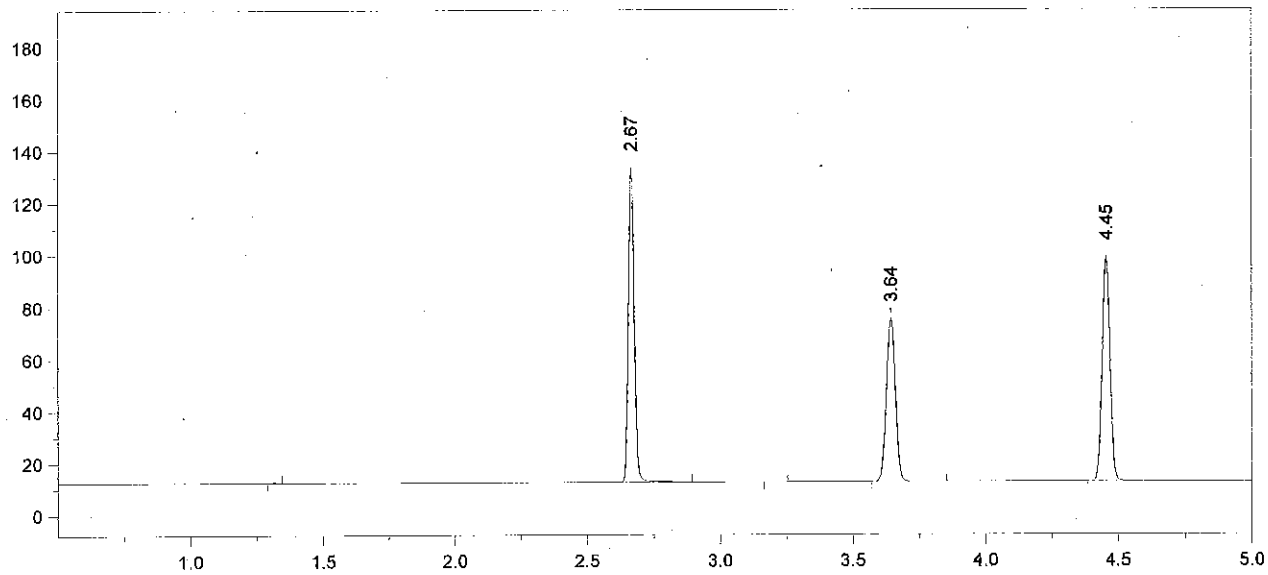
Chrom Perfect Chromatogram Report



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012
Today's Time = 9:31:55 AM
Bound File Name = SIM07102012.0041.RAW
Sample Name = .16 KW
Date Taken = 7/11/2012 1:01:11 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal
Calibration Version = 8

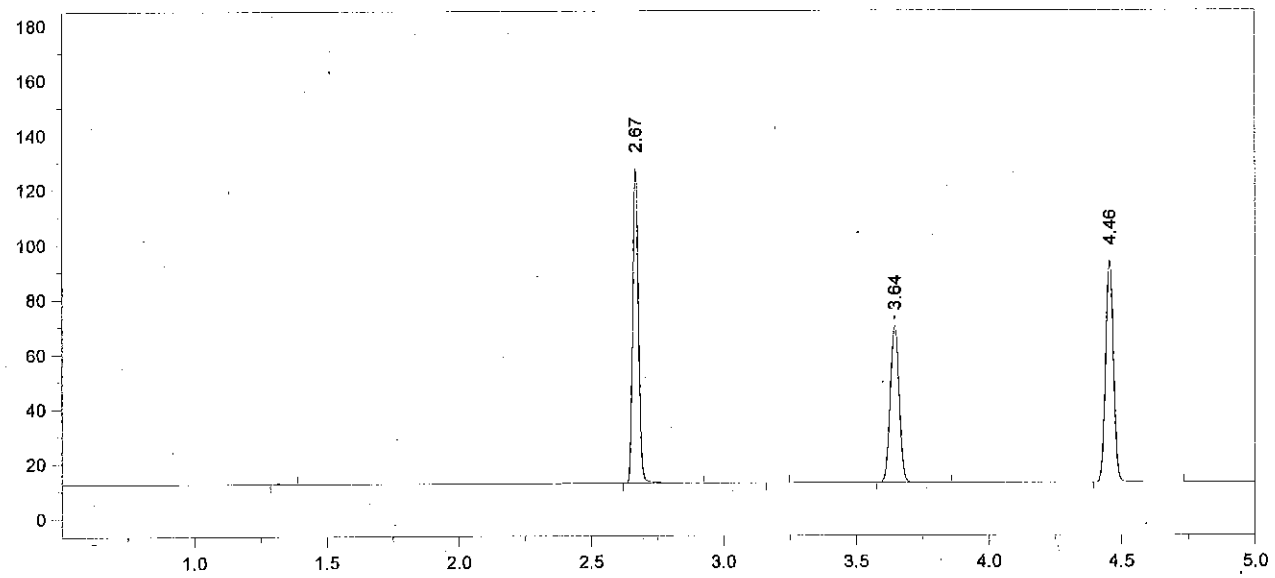
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	192314	0.1980	0.1616
4	3.64	t-Butanol	141267	0.9749	0.7957
5	4.45	n-Propanol	186735	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012
Today's Time = 9:32:03 AM
Bound File Name = SIM07102012.0042.RAW
Sample Name = .16 KW
Date Taken = 7/11/2012 1:17:17 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal
Calibration Version = 8

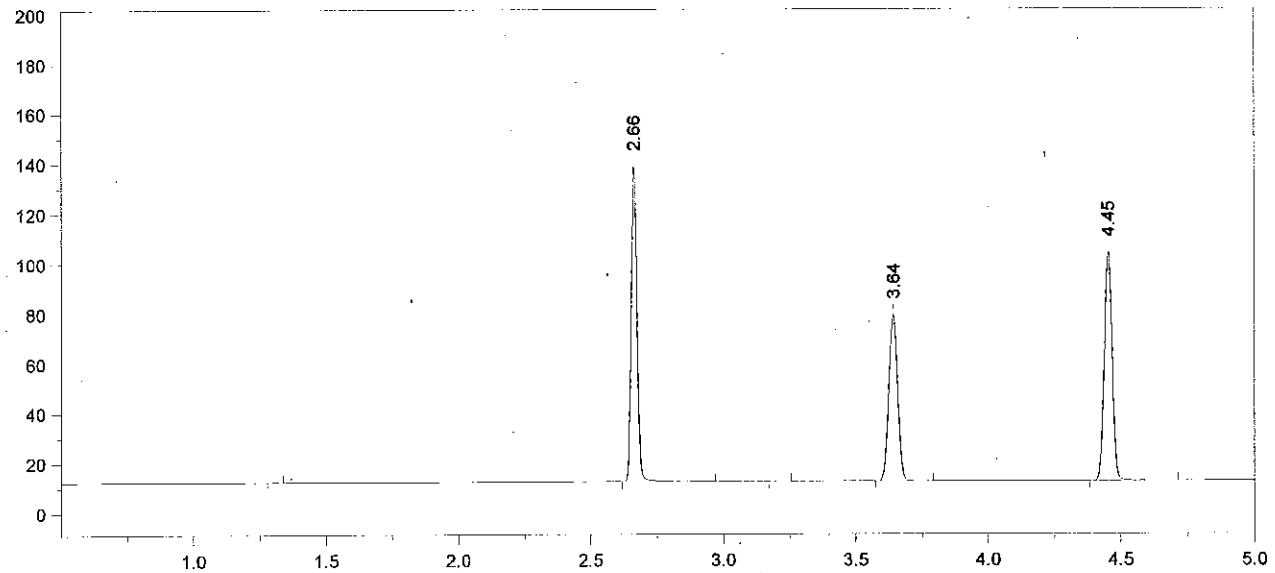
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	183736	0.1935	0.1579
4	3.64	t-Butanol	144815	1.0223	0.8344
5	4.45	n-Propanol	182547	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012
Today's Time = 9:32:10 AM
Bound File Name = SIM07102012.0043.RAW
Sample Name = .16 KW
Date Taken = 7/11/2012 1:30:55 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal
Calibration Version = 8

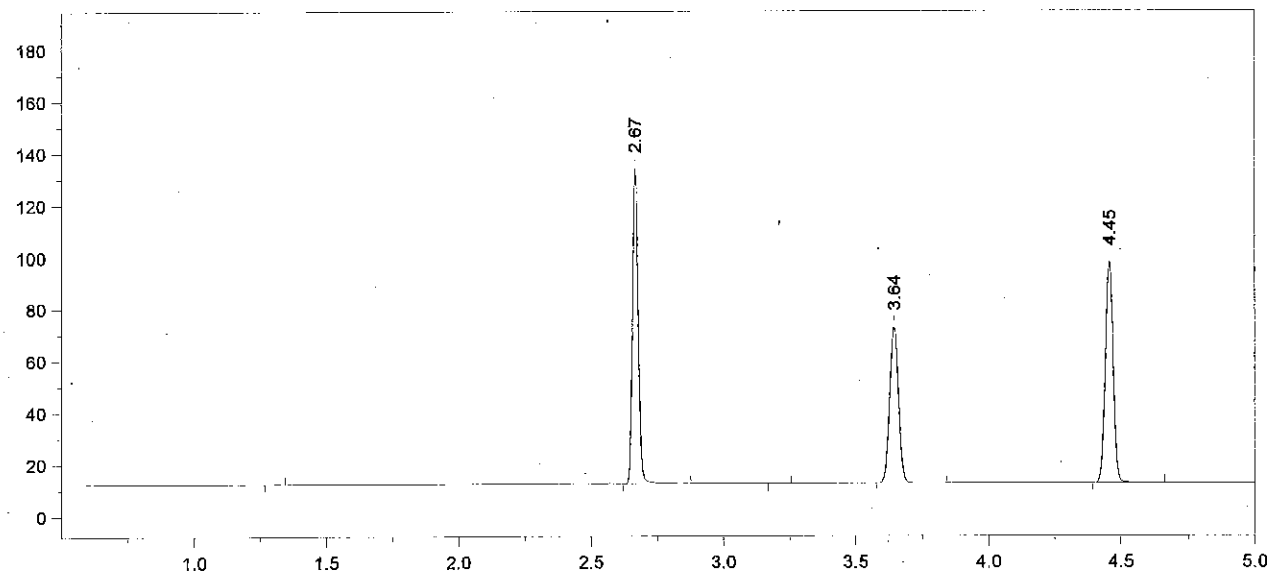
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	175158	0.1953	0.1594
4	3.64	t-Butanol	132327	0.9893	0.8075
5	4.46	n-Propanol	172364	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012
Today's Time = 9:32:18 AM
Bound File Name = SIM07102012.0044.RAW
Sample Name = .16 KW
Date Taken = 7/11/2012 1:48:44 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal
Calibration Version = 8

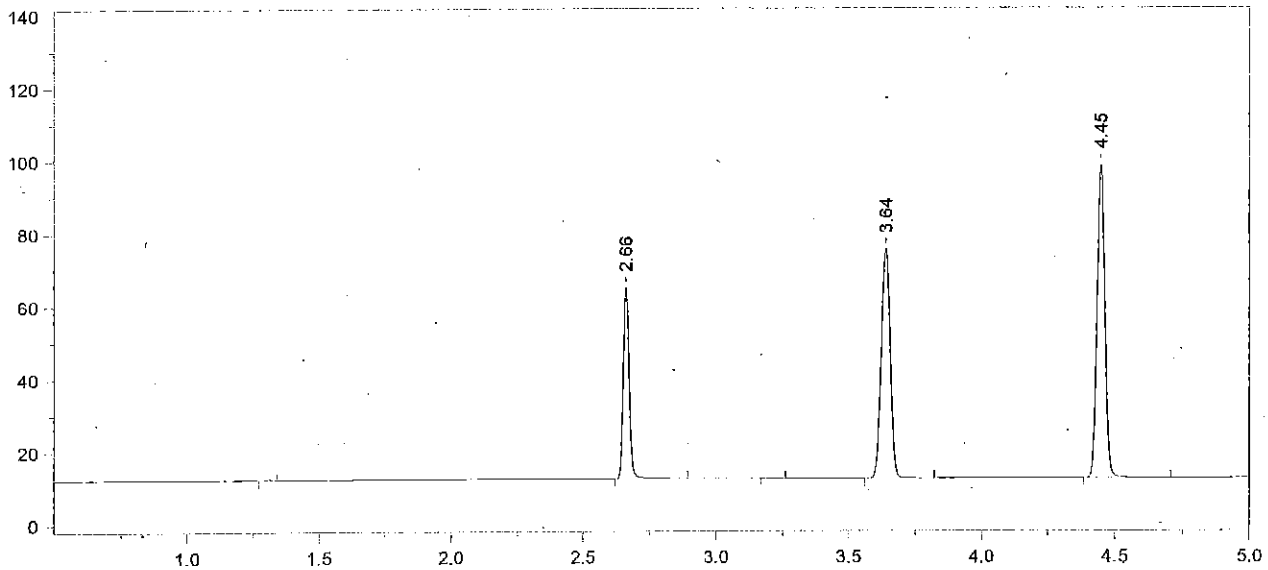
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	192642	0.1913	0.1562
4	3.64	t-Butanol	154128	1.0262	0.8376
5	4.45	n-Propanol	193537	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012
Today's Time = 9:32:26 AM
Bound File Name = SIM07102012.0045.RAW
Sample Name = .16 KW
Date Taken = 7/11/2012 2:02:37 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07102012.cal
Calibration Version = 8

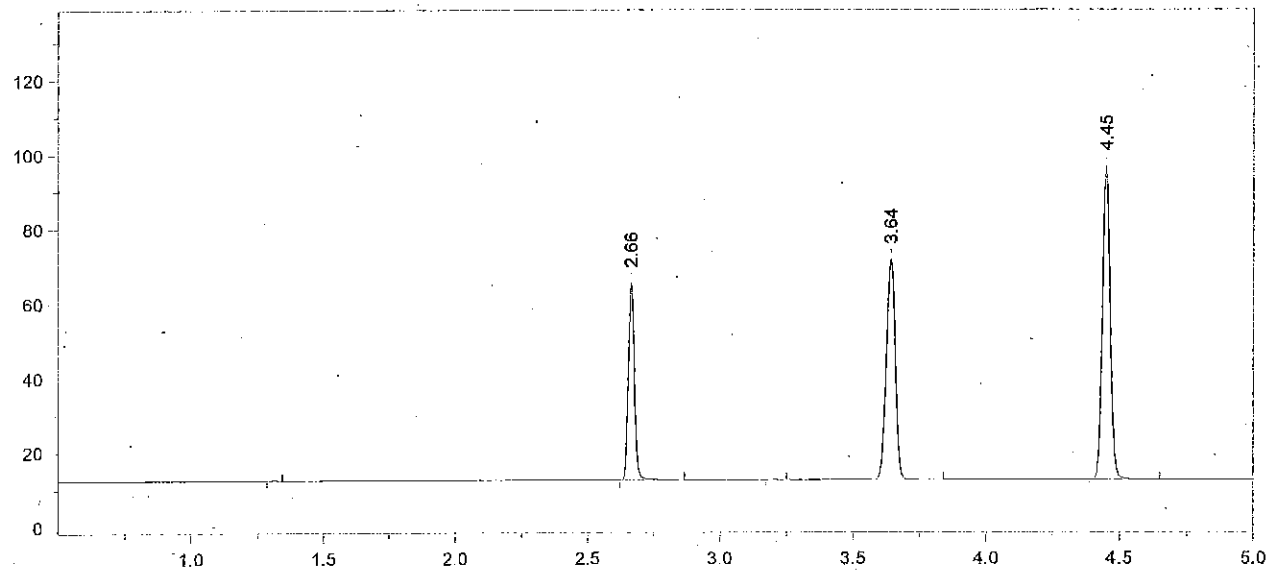
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	184291	0.1952	0.1594
4	3.64	t-Butanol	140027	0.9945	0.8117
5	4.45	n-Propanol	181447	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012
Today's Time = 9:32:33 AM
Bound File Name = SIM07102012.0046.RAW
Sample Name = CCS
Date Taken = 7/11/2012 2:20:08 AM
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	81762	0.0864	0.0705
4	3.64	t-Butanol	145424	1.0299	0.8406
5	4.45	n-Propanol	181957	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/11/2012 Today's Time = 9:32:41 AM
Bound File Name = SIM07102012.0047.RAW
Sample Name = CCS
Date Taken = 7/11/2012 2:33:52 AM 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	81887	0.0881	0.0719
4	3.64	t-Butanol	136850	0.9865	0.8052
5	4.45	n-Propanol	178753	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:				
		Acetaldehyde	1.92	N/A ✓	
		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 ✓	

LLGA 7/13/2012

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

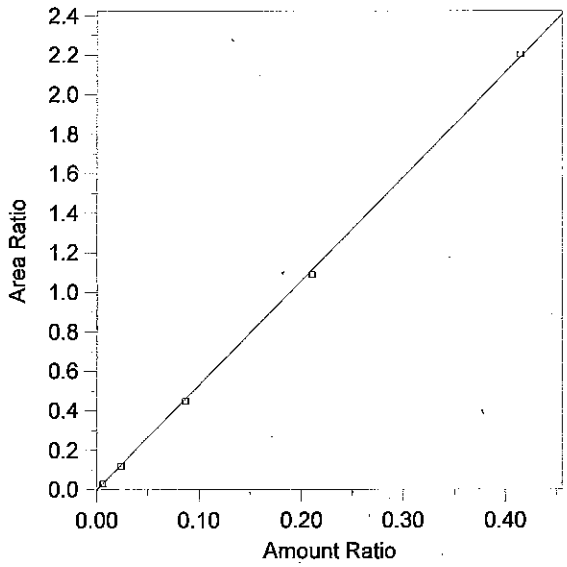
Creator:
Description:
Reason for change:

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

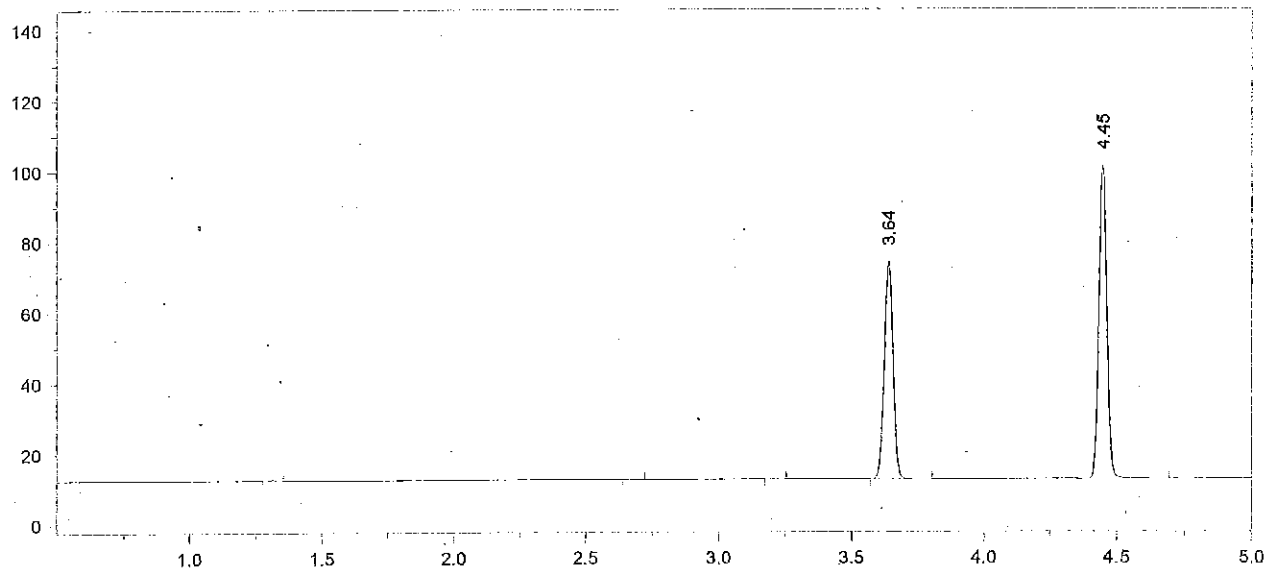
File Name = C:\Alcohol Data\SIM07112012\SIM07112012.SEQ
Version = 2
File Date = 7/12/2012 8:41:31 AM

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	.08 KW	1.00	1.00
22	SIM07062012.0087.raw	simsoln.met	.08 KW	1.00	1.00
23	SIM07062012.0088.raw	simsoln.met	.08 KW	1.00	1.00
24	SIM07062012.0089.raw	simsoln.met	.08 KW	1.00	1.00
25	SIM07062012.0090.raw	simsoln.met	.08 KW	1.00	1.00
26	SIM07062012.0091.raw	simsoln.met	.08 KW	1.00	1.00
27	SIM07062012.0092.raw	simsoln.met	.08 KW	1.00	1.00
28	SIM07062012.0093.raw	simsoln.met	CCS	1.00	1.00
29	SIM07062012.0094.raw	simsoln.met	CCS	1.00	1.00
30	SIM07062012.0095.raw	simsoln.met	.16 ALB	1.00	1.00
31	SIM07062012.0096.raw	simsoln.met	.16 ALB	1.00	1.00
32	SIM07062012.0097.raw	simsoln.met	.16 ALB	1.00	1.00
33	SIM07062012.0098.raw	simsoln.met	.16 ALB	1.00	1.00
34	SIM07062012.0099.raw	simsoln.met	.16 ALB	1.00	1.00
35	SIM07062012.0100.raw	simsoln.met	.16 ALB	1.00	1.00
36	SIM07062012.0101.raw	simsoln.met	.16 ALB	1.00	1.00
37	SIM07062012.0102.raw	simsoln.met	CCS	1.00	1.00
38	SIM07062012.0103.raw	simsoln.met	CCS	1.00	1.00
39	SIM07062012.0104.raw	simsoln.met	.16 KW	1.00	1.00
40	SIM07062012.0105.raw	simsoln.met	.16 KW	1.00	1.00
41	SIM07062012.0106.raw	simsoln.met	.16 KW	1.00	1.00
42	SIM07062012.0107.raw	simsoln.met	.16 KW	1.00	1.00
43	SIM07062012.0108.raw	simsoln.met	.16 KW	1.00	1.00
44	SIM07062012.0109.raw	simsoln.met	.16 KW	1.00	1.00
45	SIM07062012.0110.raw	simsoln.met	.16 KW	1.00	1.00
46	SIM07062012.0111.raw	simsoln.met	CCS	1.00	1.00
47	SIM07062012.0112.raw	simsoln.met	CCS	1.00	1.00
48	SIM07062012.0113.raw	simsoln.met	.40 ALB	1.00	1.00
49	SIM07062012.0114.raw	simsoln.met	.40 ALB	1.00	1.00
50	SIM07062012.0115.raw	simsoln.met	.40 ALB	1.00	1.00
51	SIM07062012.0116.raw	simsoln.met	.40 ALB	1.00	1.00
52	SIM07062012.0117.raw	simsoln.met	.40 ALB	1.00	1.00
53	SIM07062012.0118.raw	simsoln.met	.40 ALB	1.00	1.00
54	SIM07062012.0119.raw	simsoln.met	.40 ALB	1.00	1.00
55	SIM07062012.0120.raw	simsoln.met	CCS	1.00	1.00
56	SIM07062012.0121.raw	simsoln.met	CCS	1.00	1.00
57	SIM07062012.0122.raw	simsoln.met	.40 KW	1.00	1.00
58	SIM07062012.0123.raw	simsoln.met	.40 KW	1.00	1.00
59	SIM07062012.0124.raw	simsoln.met	.40 KW	1.00	1.00
60	SIM07062012.0125.raw	simsoln.met	.40 KW	1.00	1.00
61	SIM07062012.0126.raw	simsoln.met	.40 KW	1.00	1.00
62	SIM07062012.0127.raw	simsoln.met	.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 7/13/2012

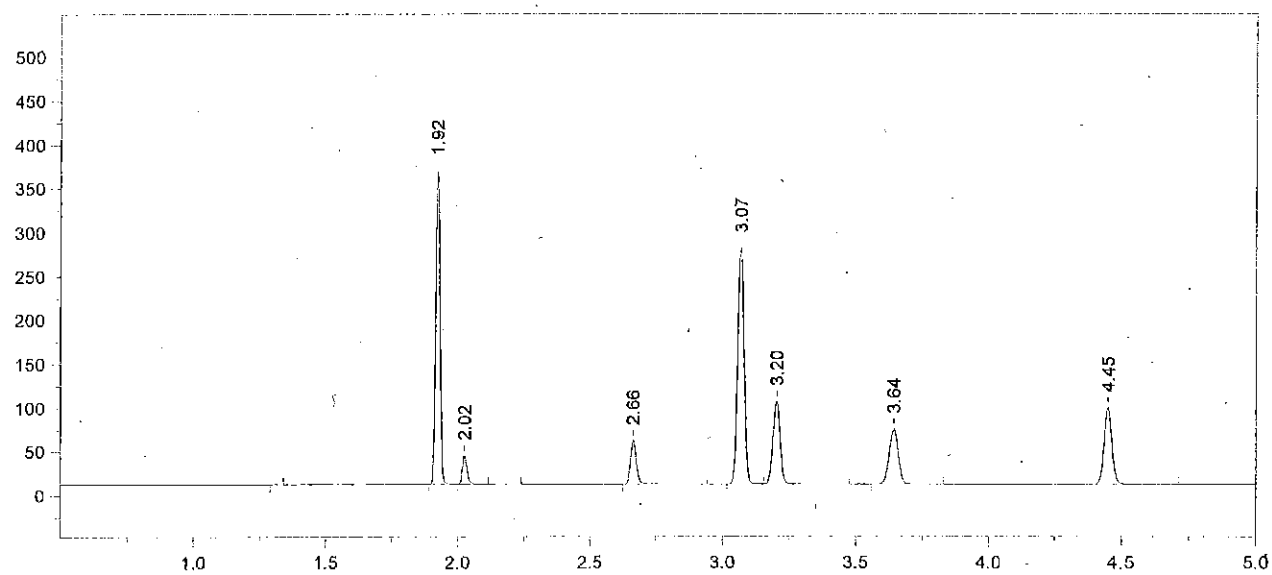
Entry #	Raw File Name	Method File Name	Sample Name	Sample Wt.	Int. Std. Amount
63	SIM07062012.0128.raw	simsoln.met	.40 KW	1.00	1.00
64	SIM07062012.0129.raw	simsoln.met	CCS	1.00	1.00
65	SIM07062012.0130.raw	simsoln.met	CCS	1.00	1.00



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

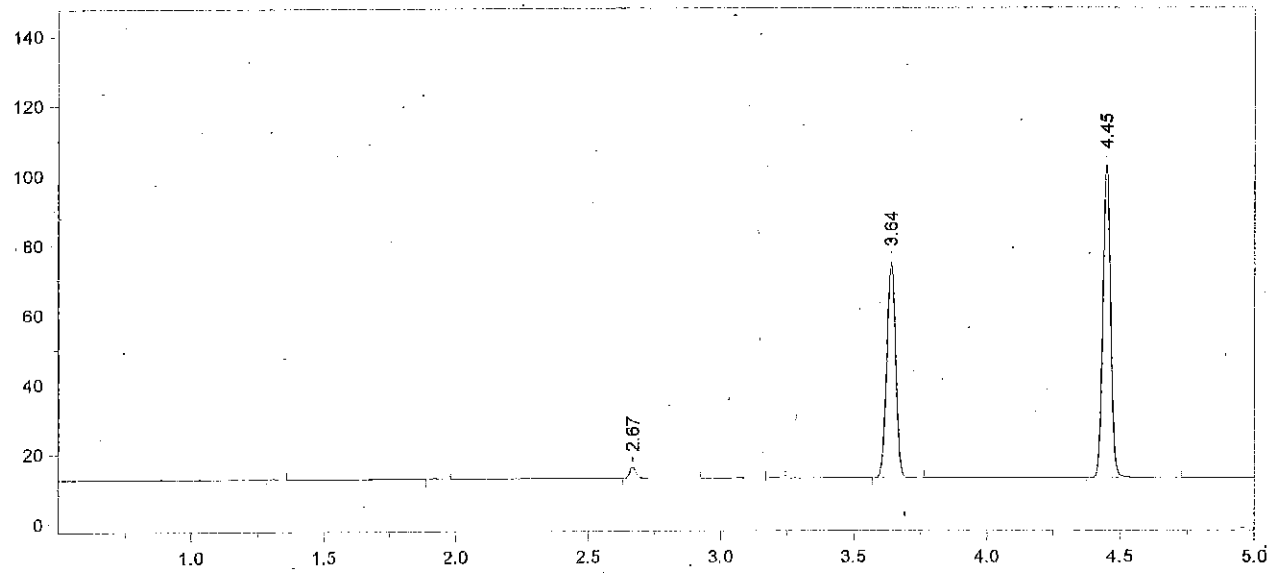
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
4	3.64	t-Butanol	141969	0.9758	0.7965
5	4.45	n-Propanol	188596	1.0000	0.8162



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

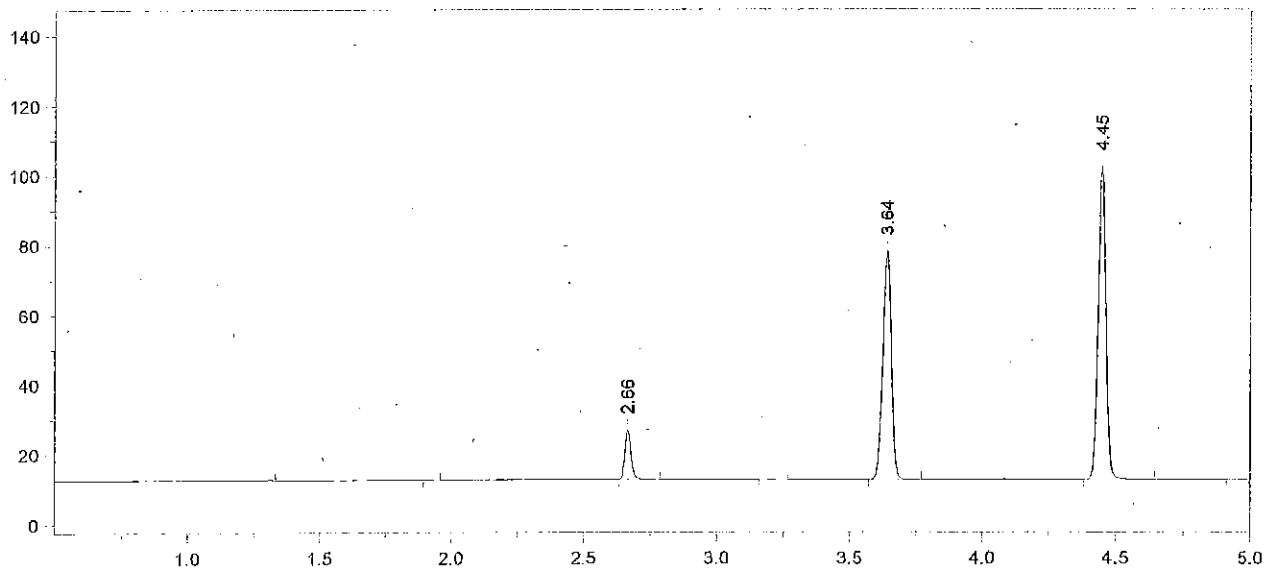
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	1.92	Acetaldehyde	407078	0.0900	0.0735
3	2.02	Methanol	39583	0.0920	0.0751
4	2.66	Ethanol	77220	0.0793	0.0647
5	3.07	Acetone	457711	0.0920	0.0751
6	3.20	Isopropanol	175717	0.1230	0.1004
7	3.64	t-Butanol	144763	1.0171	0.8301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

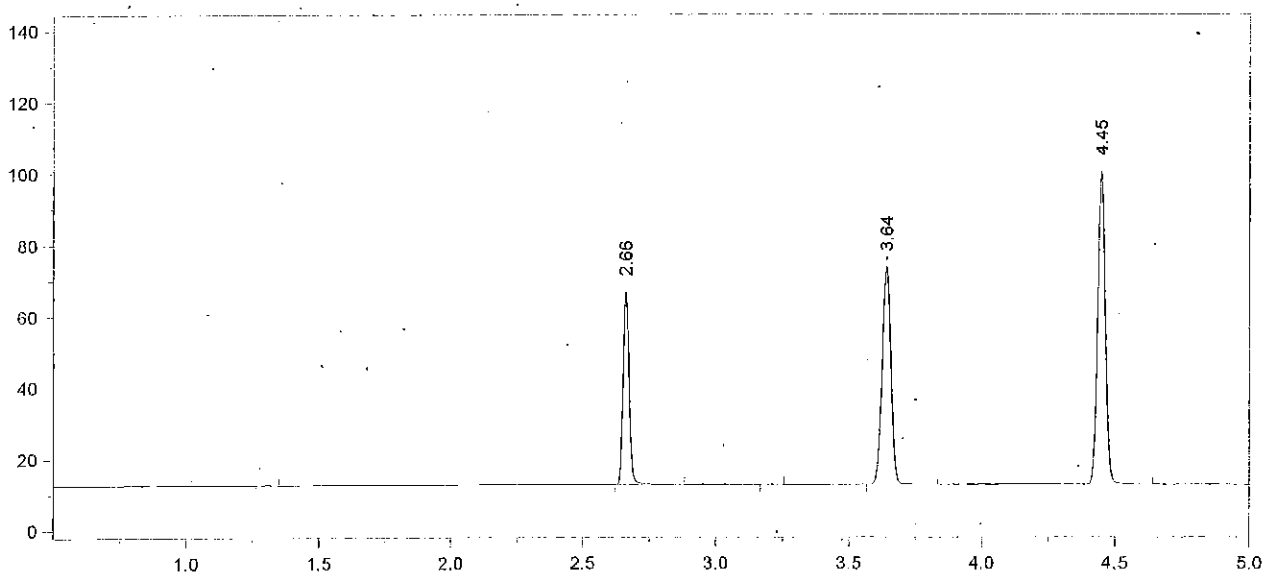
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.67	Ethanol	05543	0.0055	0.0045
6	3.64	t-Butanol	142575	0.9699	0.7916
7	4.45	n-Propanol	190565	1.0000	0.8162



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 = ~~CCS~~ 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

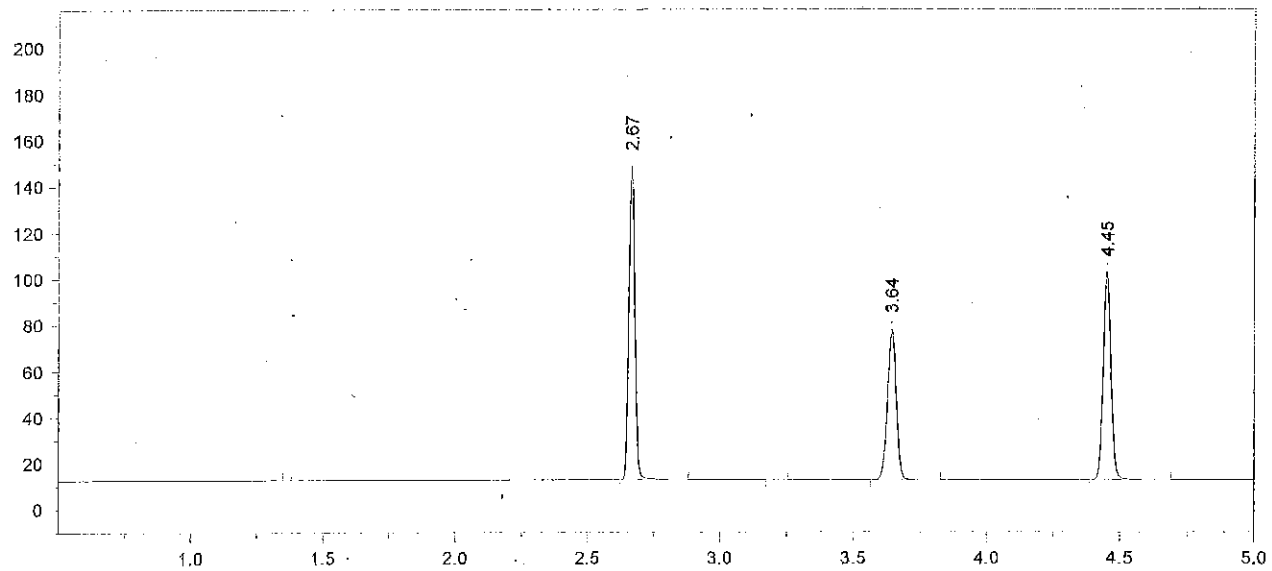
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
3	2.66	Ethanol	22368	0.0224	0.0182
5	3.64	t-Butanol	150750	1.0310	0.8415
6	4.45	n-Propanol	189549	1.0000	0.8162



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

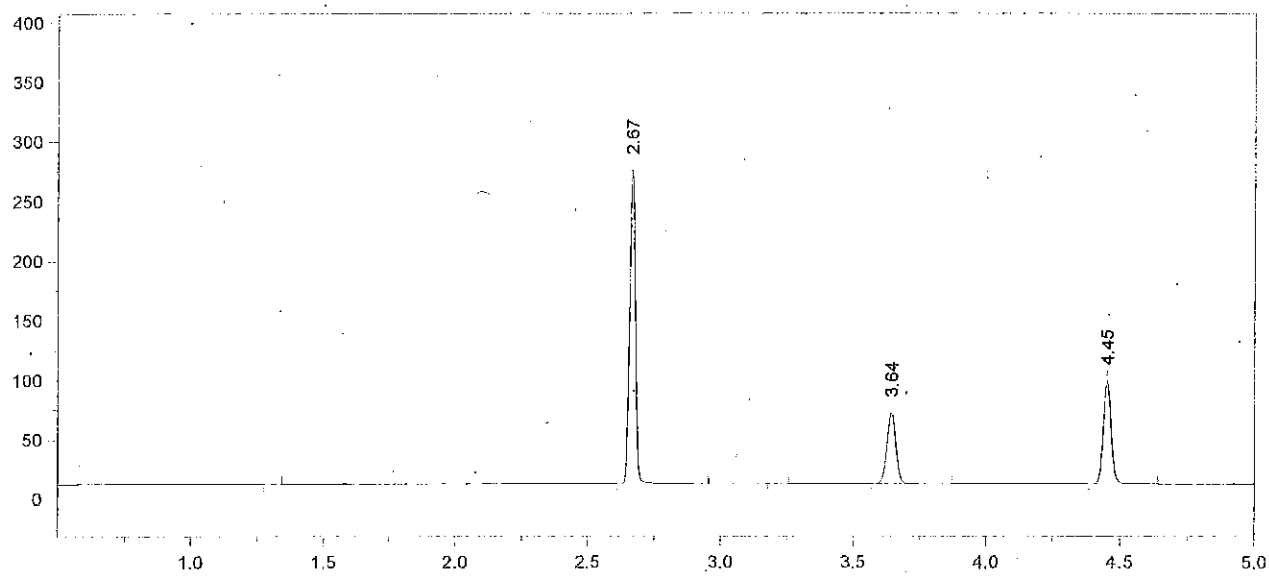


Format File Name = simsoln-JFH.met.FMT

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

Chrom Perfect Chromatogram Report

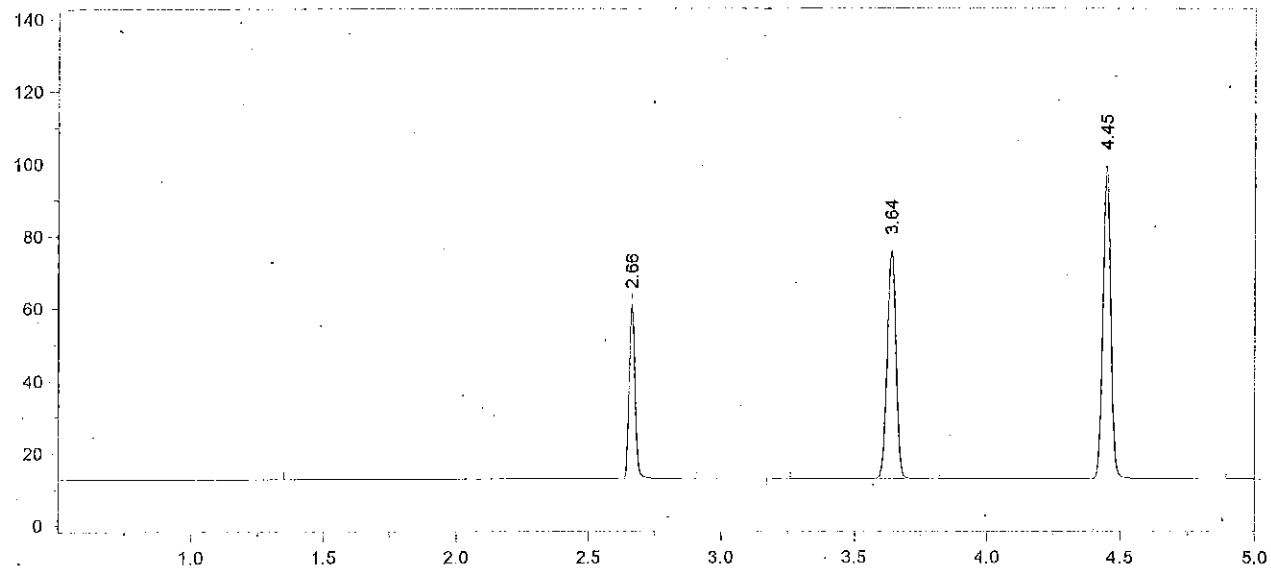


Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012 Today's Time = 8:48:50 AM
Bound File Name = SIM07062012.0072.RAW
Sample Name = ~~GCS~~ 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

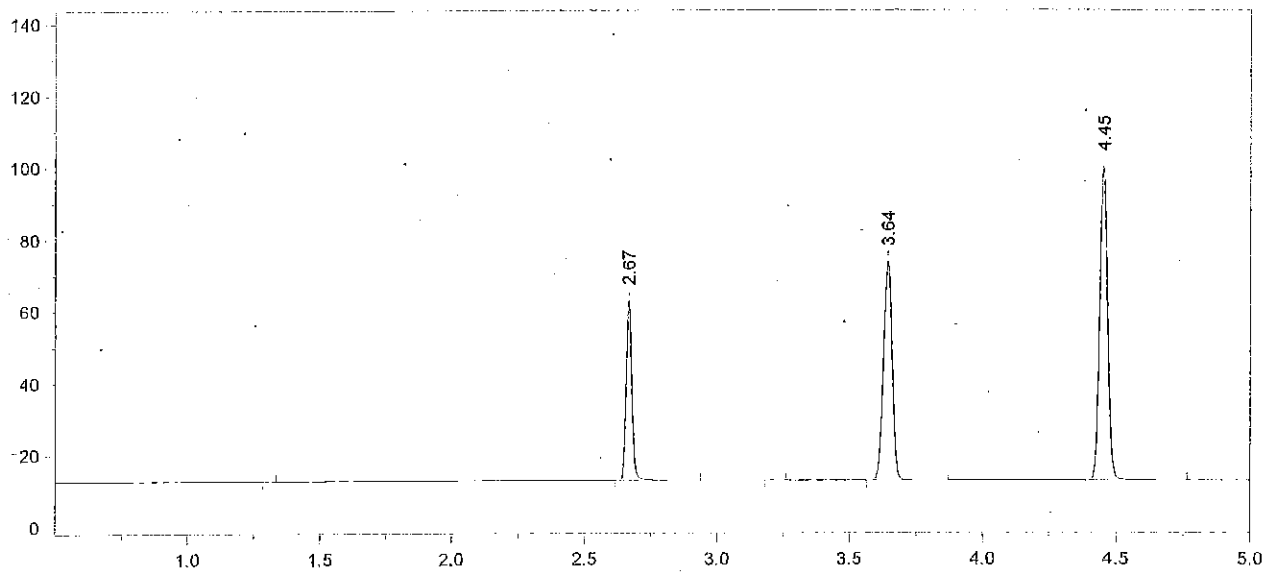
Chrom Perfect Chromatogram Report



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 = ~~CCS~~ 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

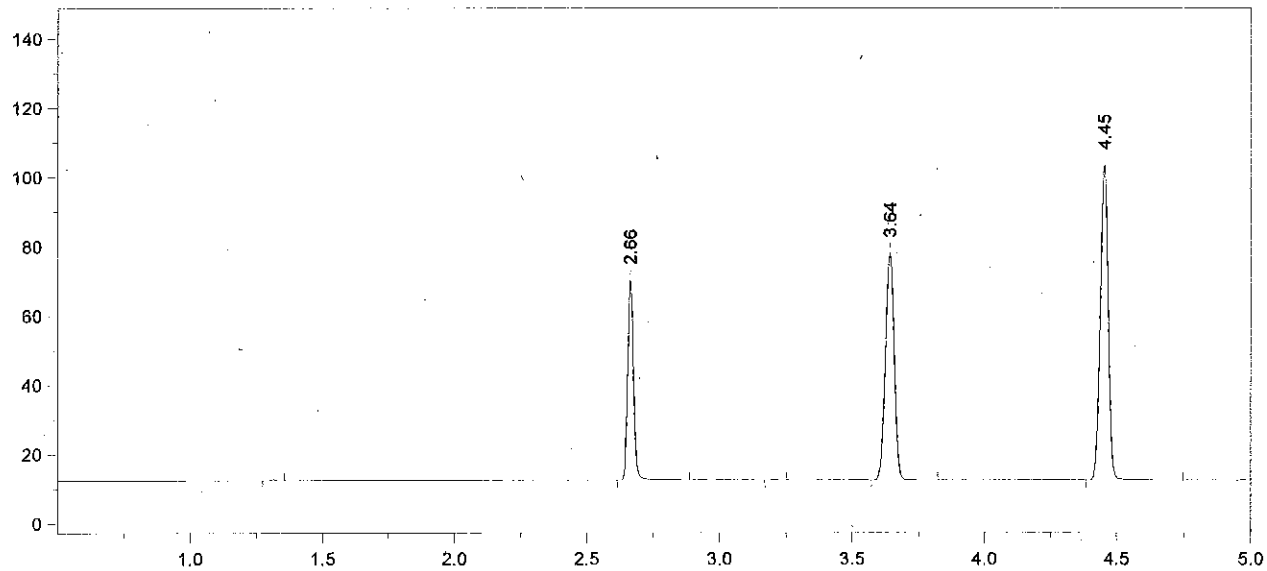
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	74597	0.0771	0.0629
4	3.64	t-Butanol	145335	1.0279	0.8390
5	4.45	n-Propanol	183282	1.0000	0.8162



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

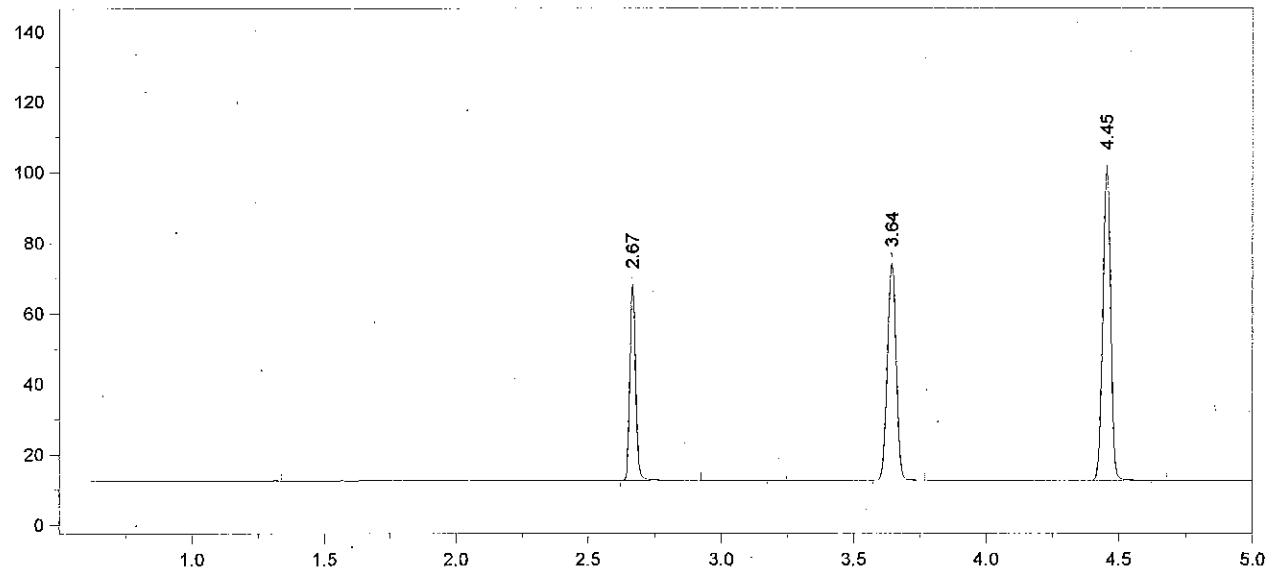
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	77193	0.0786	0.0641
4	3.64	t-Butanol	140393	0.9779	0.7981
5	4.45	n-Propanol	186111	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012 Today's Time = 8:51:19 AM
Bound File Name = SIM07062012.0092.RAW
Sample Name = ~~CCS KW 7/12/12 ~~ 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

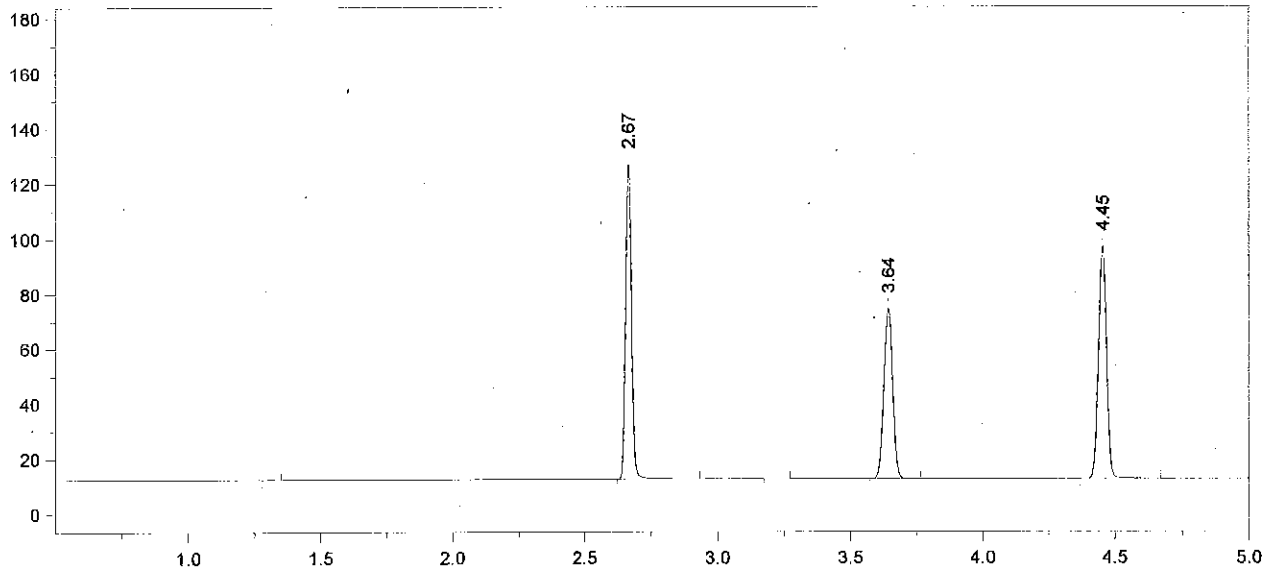
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	88765	0.0874	0.0713
4	3.64	t-Butanol	151622	1.0211	0.8334
5	4.45	n-Propanol	192490	1.0000	0.8162



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



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012
Today's Time = 8:51:36 AM
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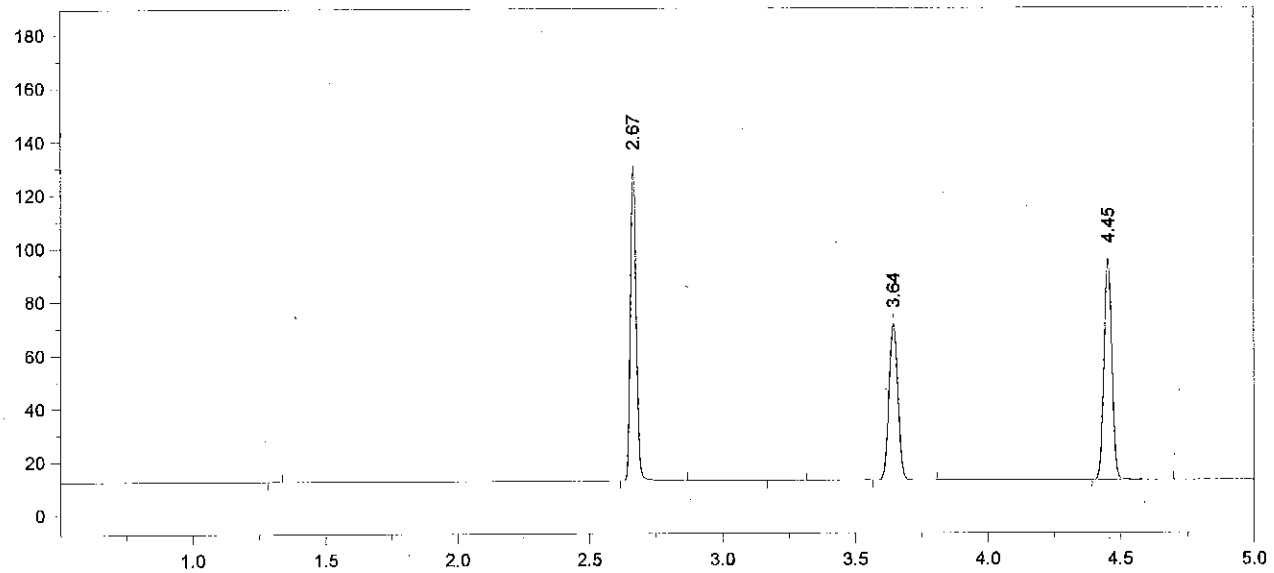
Sample Name = ~~CGS~~ KW 7/12/12 .16 AUB
Date Taken = 7/11/2012 10:32:18 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal
Calibration Version = 2

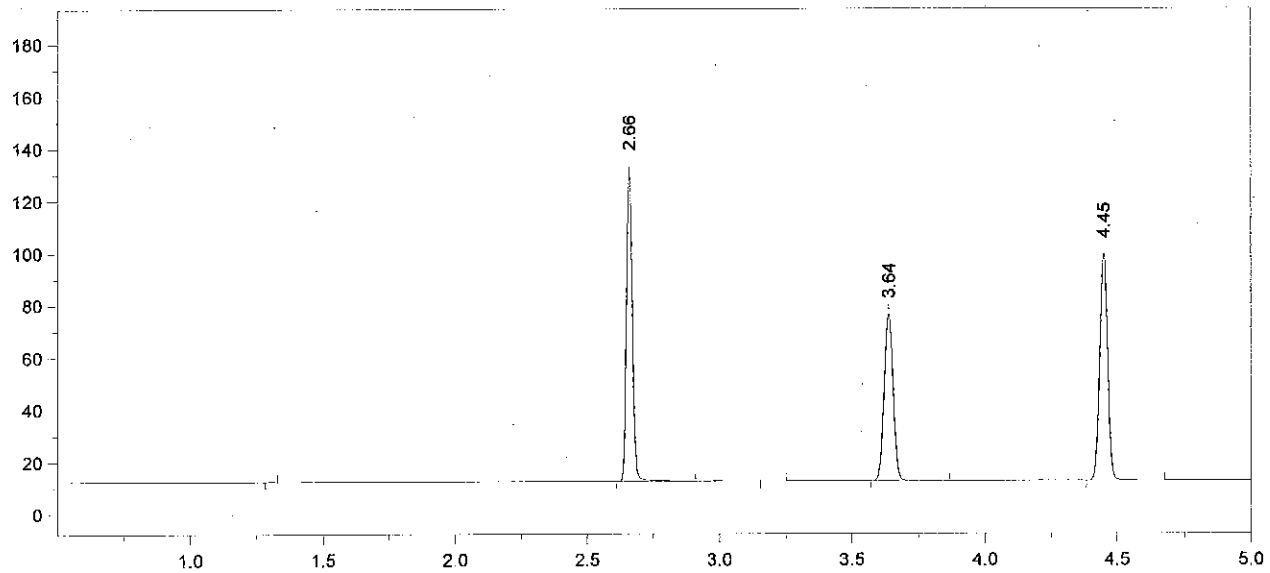
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	175664	0.1866	0.1523
4	3.64	t-Butanol	142238	1.0338	0.8438
5	4.45	n-Propanol	178356	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012
Today's Time = 8:51:48 AM
Bound File Name = SIM07062012.0095.RAW
Sample Name = ~~SOS~~ KW 7/12/12 .16 ALB
Date Taken = 7/11/2012 10:46:06 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal
Calibration Version = 2

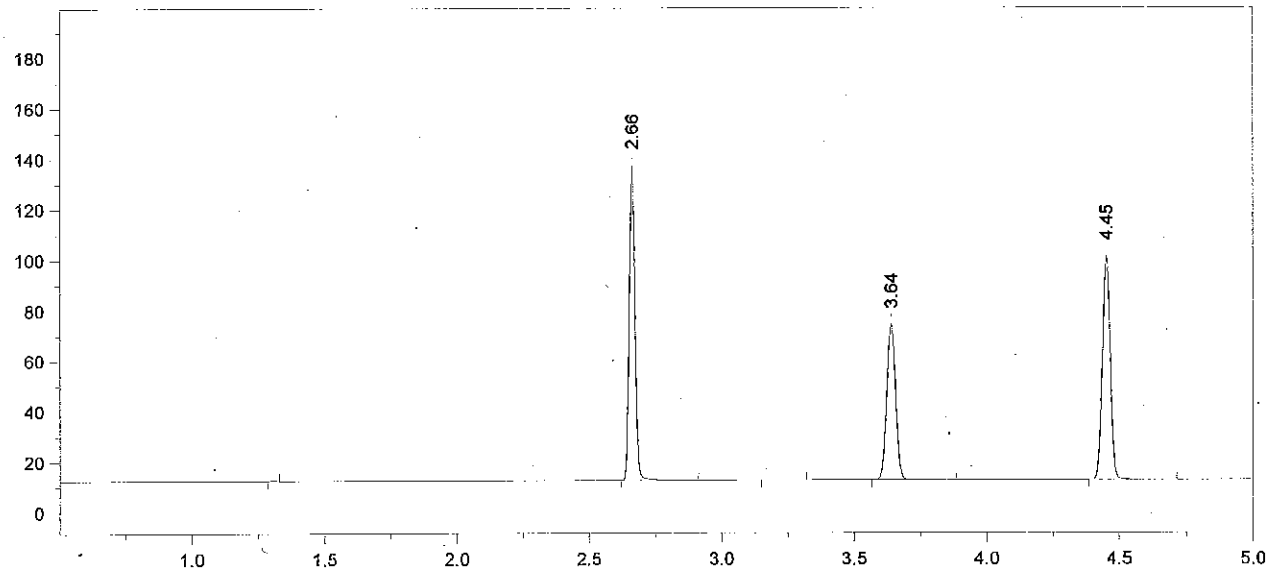
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	179123	0.1935	0.1579
4	3.64	t-Butanol	134858	0.9967	0.8135
5	4.45	n-Propanol	175393	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012
Today's Time = 8:51:56 AM
Bound File Name = SIM07062012.0096.RAW
Sample Name = ~~SES~~ KW 7/12/12 .16 ALB
Date Taken = 7/11/2012 11:03:45 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal
Calibration Version = 2

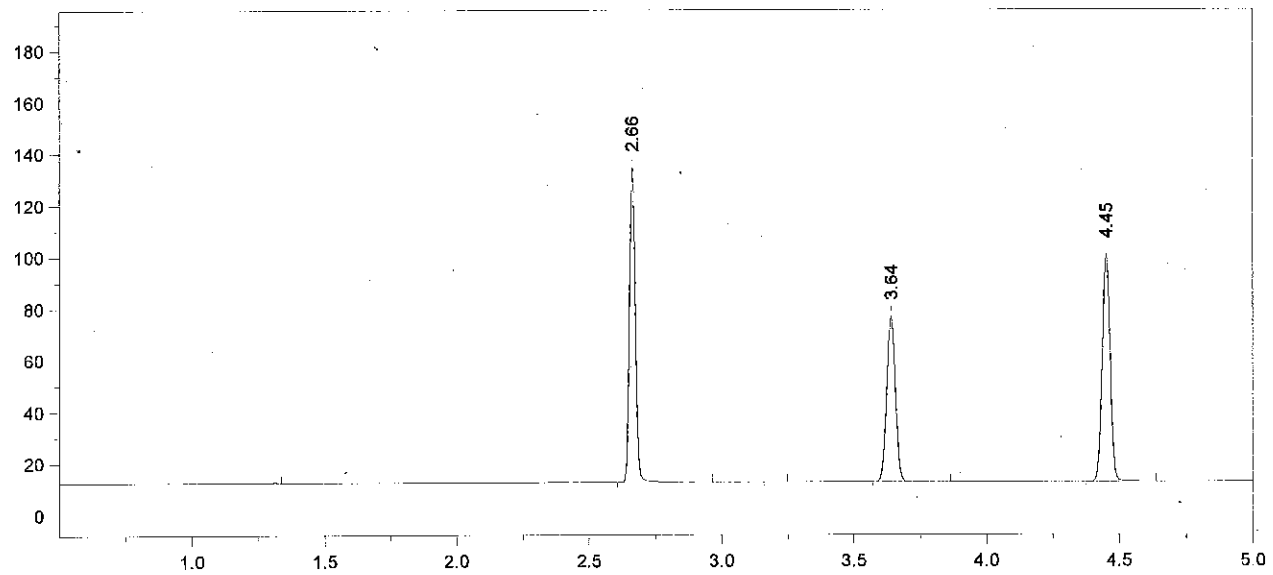
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	183946	0.1890	0.1543
4	3.64	t-Butanol	147547	1.0372	0.8466
5	4.45	n-Propanol	184402	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012
Today's Time = 8:52:04 AM
Bound File Name = SIM07062012.0097.RAW
Sample Name = ~~ces~~ KW 7/12/12 ALB .16
Date Taken = 7/11/2012 11:17:36 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal
Calibration Version = 2

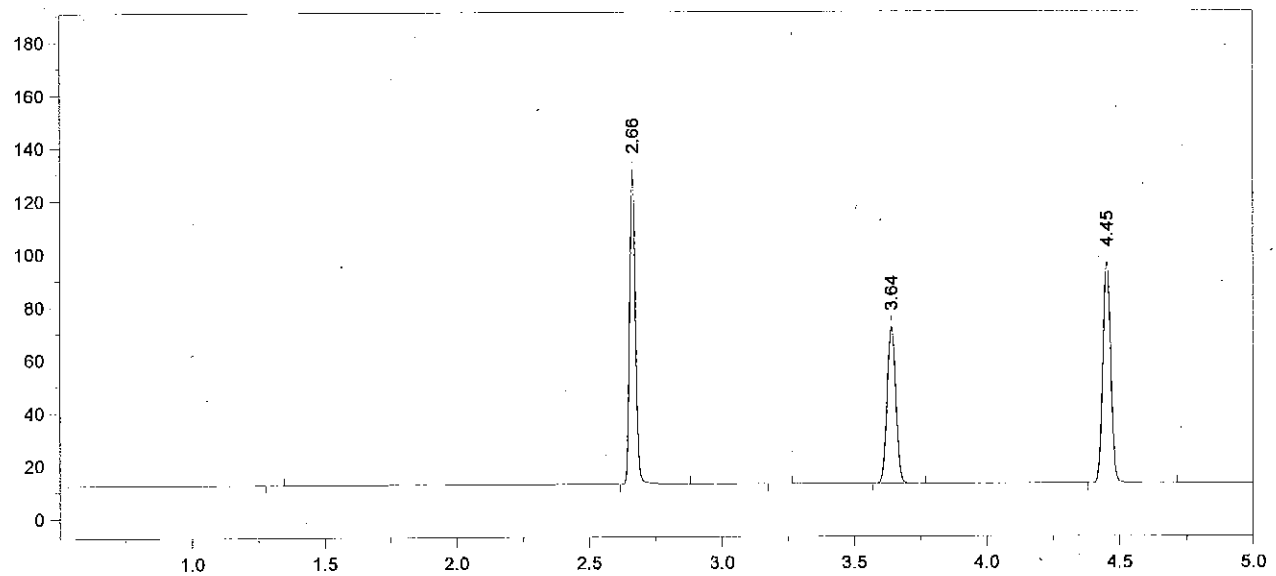
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	190655	0.1935	0.1579
4	3.64	t-Butanol	142394	0.9886	0.8069
5	4.45	n-Propanol	186714	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012
Today's Time = 8:52:12 AM
Bound File Name = SIM07062012.0098.RAW
Sample Name = ~~CES~~ KW 7/12/12 :16 AUB
Date Taken = 7/11/2012 11:35:14 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal
Calibration Version = 2

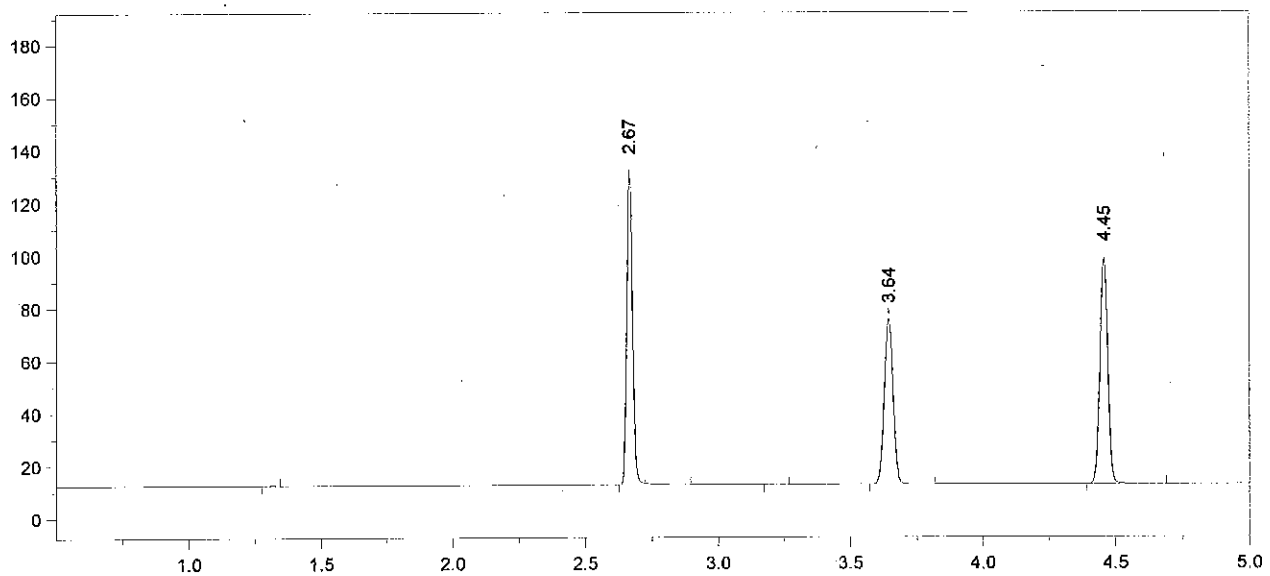
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	185614	0.1894	0.1546
4	3.64	t-Butanol	147555	1.0303	0.8410
5	4.45	n-Propanol	185642	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012
Today's Time = 8:52:20 AM
Bound File Name = SIM07062012.0099.RAW
Sample Name = ~~CES~~ KW 7/12/12 .16 ALB
Date Taken = 7/11/2012 11:49:02 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	180847	0.1924	0.1570
4	3.64	t-Butanol	136730	0.9951	0.8122
5	4.45	n-Propanol	178122	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012
Today's Time = 8:52:28 AM
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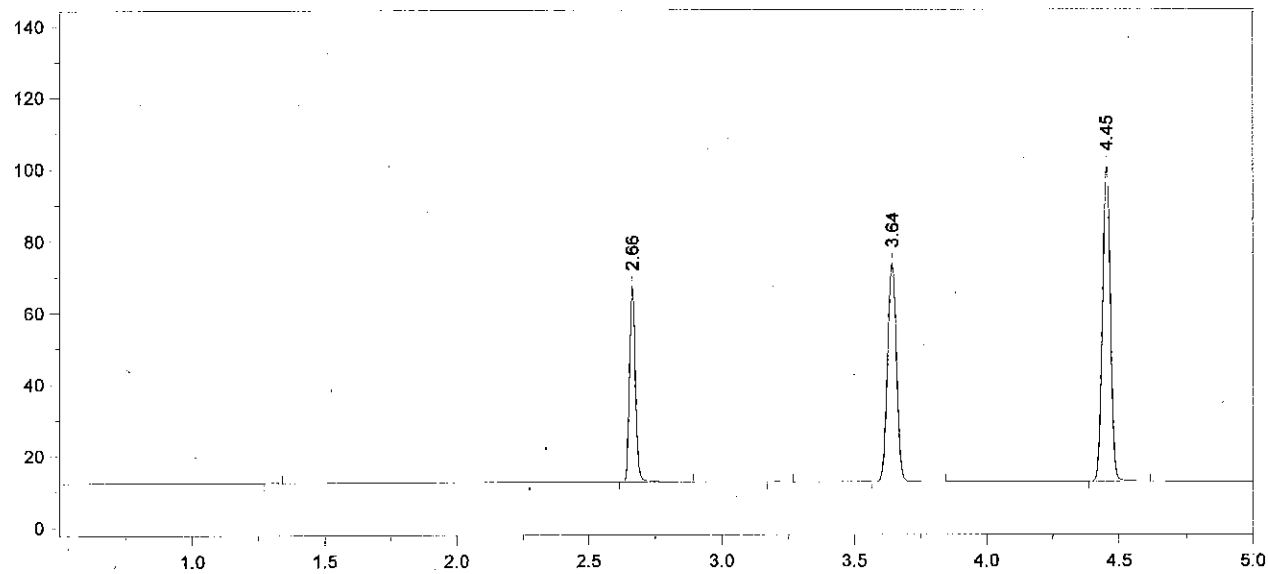
Sample Name = ~~CES~~ KW 7/12/12 .16 ALB
Date Taken = 7/12/2012 12:04:58 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal
Calibration Version = 2

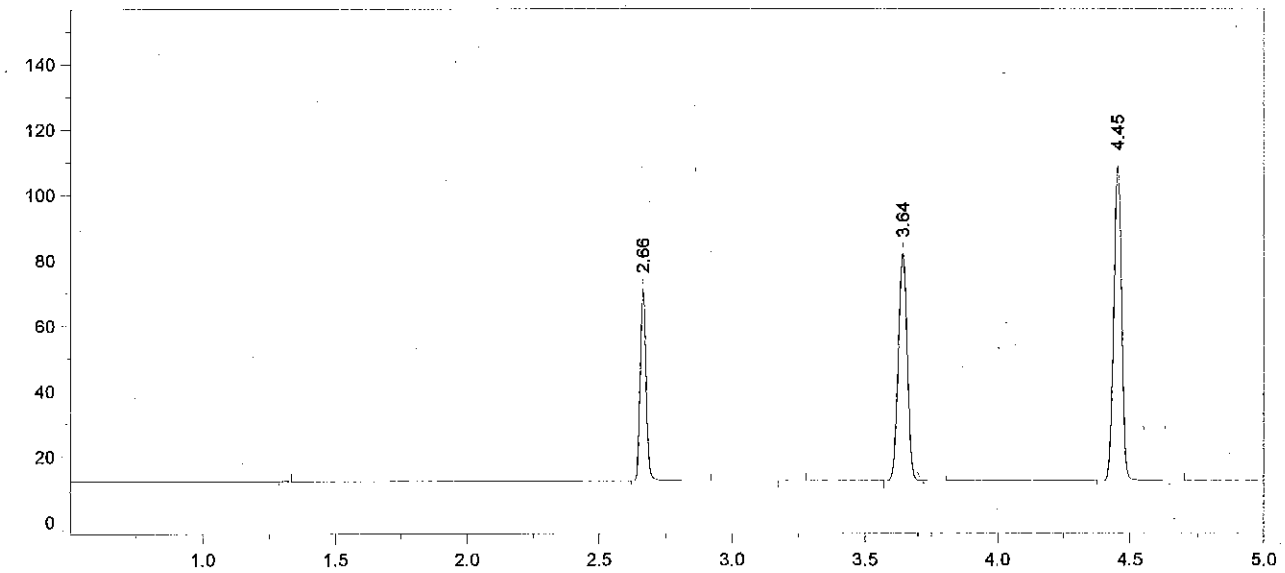
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	182044	0.1890	0.1543
4	3.64	t-Butanol	145035	1.0302	0.8408
5	4.45	n-Propanol	182504	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012 Today's Time = 8:52:35 AM
Bound File Name = SIM07062012.0101.RAW
Sample Name = ~~CCS~~ KW 7/12/12 ~~16 ALB~~ CCS
Date Taken = 7/12/2012 12:20:21 AM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal Calibration Version = 2

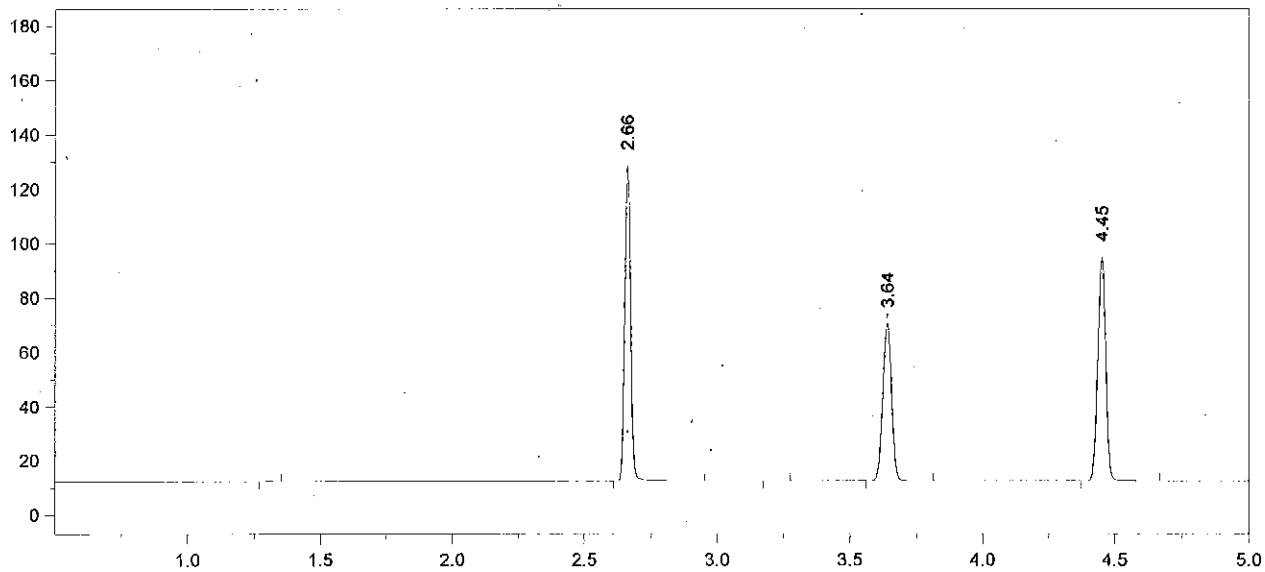
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	84902	0.0864 ✓	0.0705
4	3.64	t-Butanol	141213	0.9835	0.8027
5	4.45	n-Propanol	186124	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012
Today's Time = 8:52:42 AM
Bound File Name = SIM07062012.0102.RAW
Sample Name = CCS
Date Taken = 7/12/2012 12:34:47 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal
Calibration Version = 2

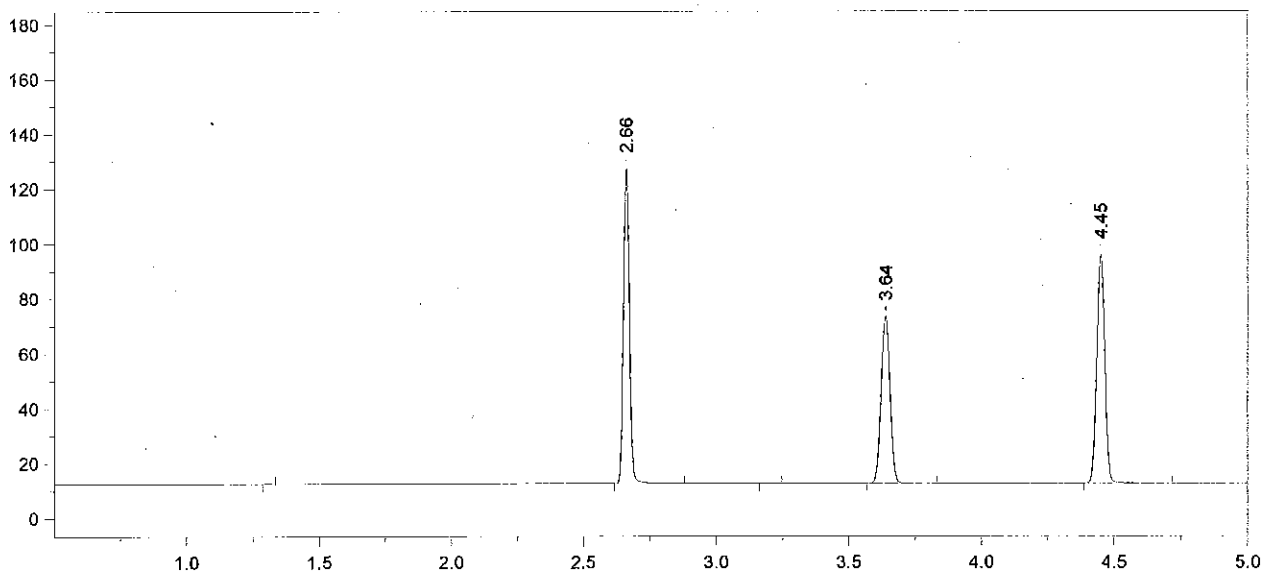
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	90600	0.0841 ✓	0.0687
4	3.64	t-Butanol	161266	1.0243	0.8361
5	4.45	n-Propanol	204085	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012
Today's Time = 8:52:49 AM
Bound File Name = SIM07062012.0103.RAW
Sample Name = ~~CCS~~ KW 7/12/12 .116 KW
Date Taken = 7/12/2012 12:50:06 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal
Calibration Version = 2

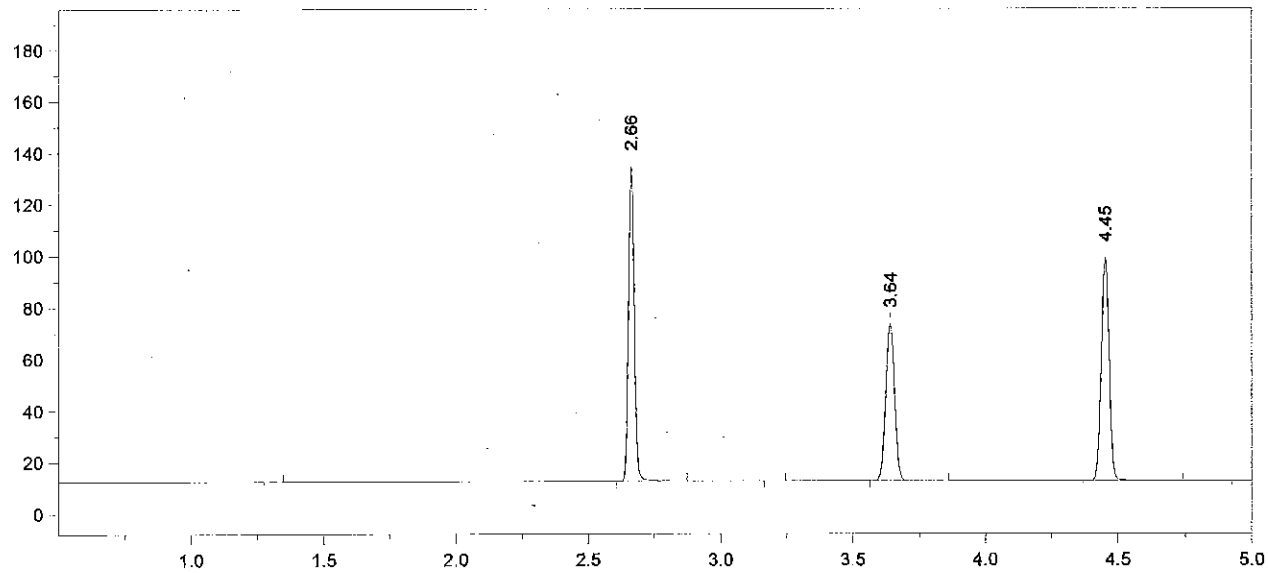
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	178133	0.1928	0.1573
4	3.64	t-Butanol	133580	0.9889	0.8072
5	4.45	n-Propanol	175098	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012
Today's Time = 8:52:56 AM
Bound File Name = SIM07062012.0104.RAW
Sample Name = ~~CES~~ KW 7/12/12 .16 KW
Date Taken = 7/12/2012 1:06:42 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal
Calibration Version = 2

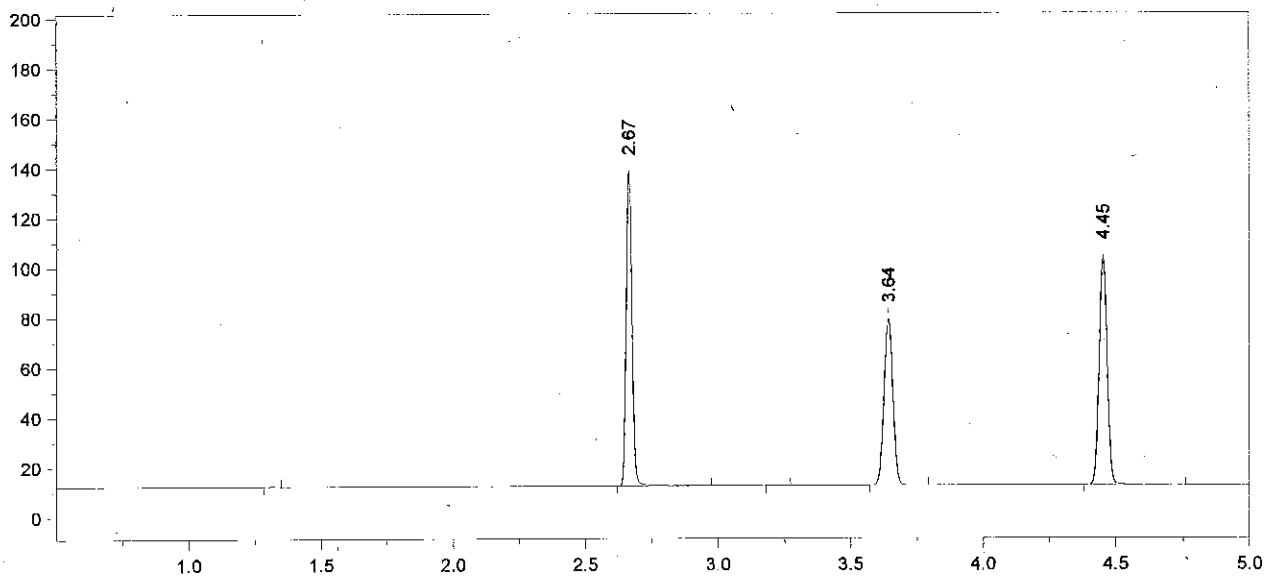
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	176136	0.1884	0.1537
4	3.64	t-Butanol	140843	1.0305	0.8411
5	4.45	n-Propanol	177178	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012
Today's Time = 8:53:03 AM
Bound File Name = SIM07062012.0105.RAW
Sample Name = ~~C05~~ KW 7/12/12 .16 KW
Date Taken = 7/12/2012 1:20:32 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal
Calibration Version = 2

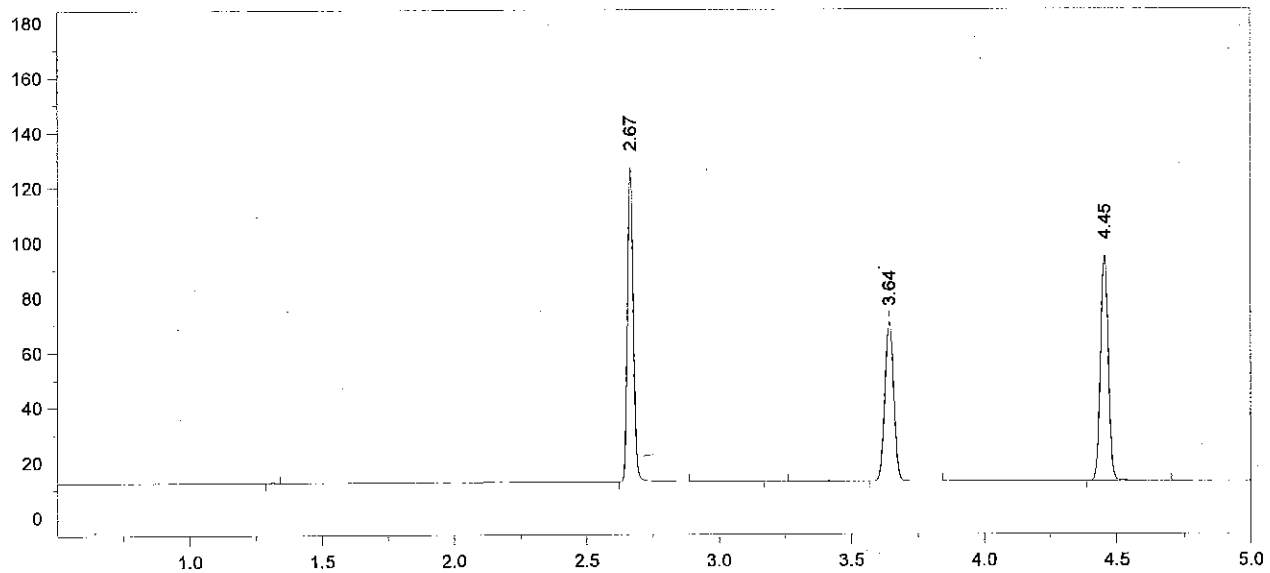
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	185886	0.1919	0.1566
4	3.64	t-Butanol	140830	0.9946	0.8118
5	4.45	n-Propanol	183542	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012
Today's Time = 8:53:12 AM
Bound File Name = SIM07062012.0106.RAW
Sample Name = ~~C05~~ KW 7/12/12 .16 KW
Date Taken = 7/12/2012 1:38:06 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal
Calibration Version = 2

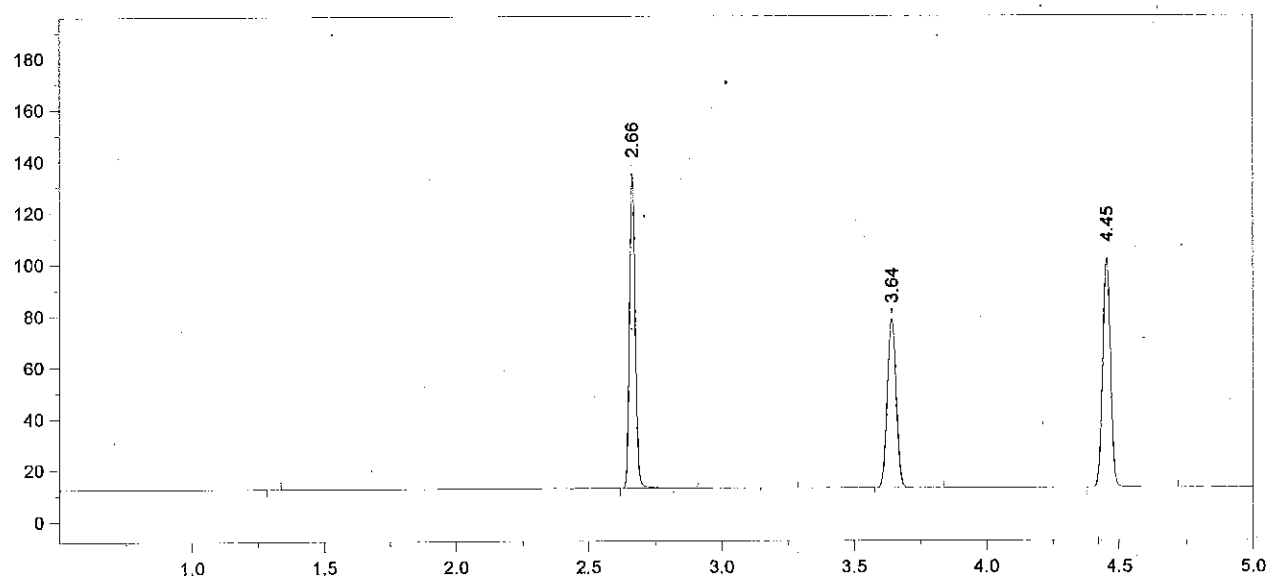
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	193045	0.1881	0.1535
4	3.64	t-Butanol	153952	1.0261	0.8375
5	4.45	n-Propanol	194499	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012
Today's Time = 8:53:20 AM
Bound File Name = SIM07062012.0107.RAW
Sample Name = ~~GCS~~ KW 7/12/12 .16 KW
Date Taken = 7/12/2012 1:51:51 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal
Calibration Version = 2

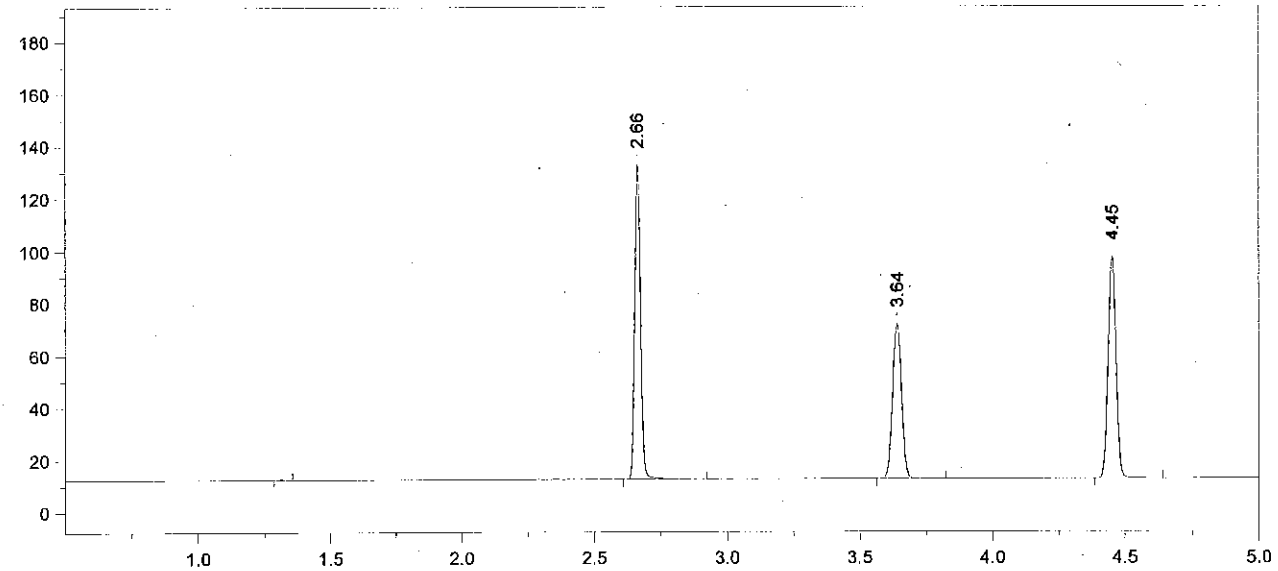
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.67	Ethanol	175715	0.1916	0.1564
4	3.64	t-Butanol	134118	1.0007	0.8167
5	4.45	n-Propanol	173741	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012
Today's Time = 8:53:28 AM
Bound File Name = SIM07062012.0108.RAW
Sample Name = ~~OCS~~ KW 7/12/12 .16 KW
Date Taken = 7/12/2012 2:09:30 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal
Calibration Version = 2

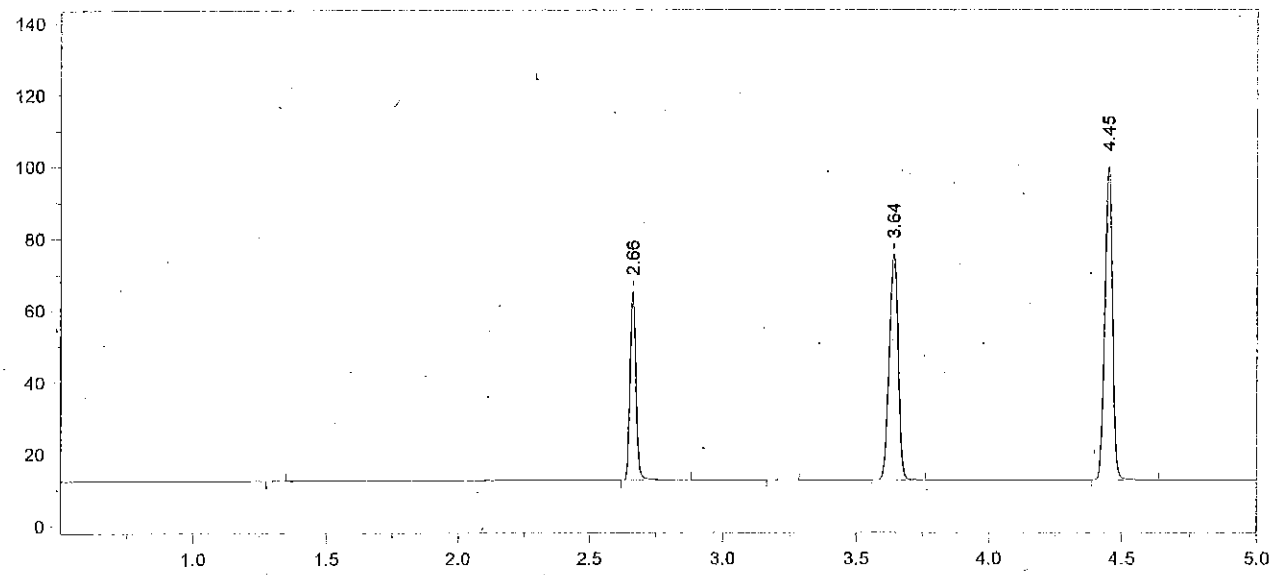
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	187736	0.1881	0.1535
4	3.64	t-Butanol	152035	1.0423	0.8507
5	4.45	n-Propanol	189082	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012
Today's Time = 8:53:35 AM
Bound File Name = SIM07062012.0109.RAW
Sample Name = ~~CCS~~ KW 7/12/12 .16 KW
Date Taken = 7/12/2012 2:23:16 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimCal 07112012.cal
Calibration Version = 2

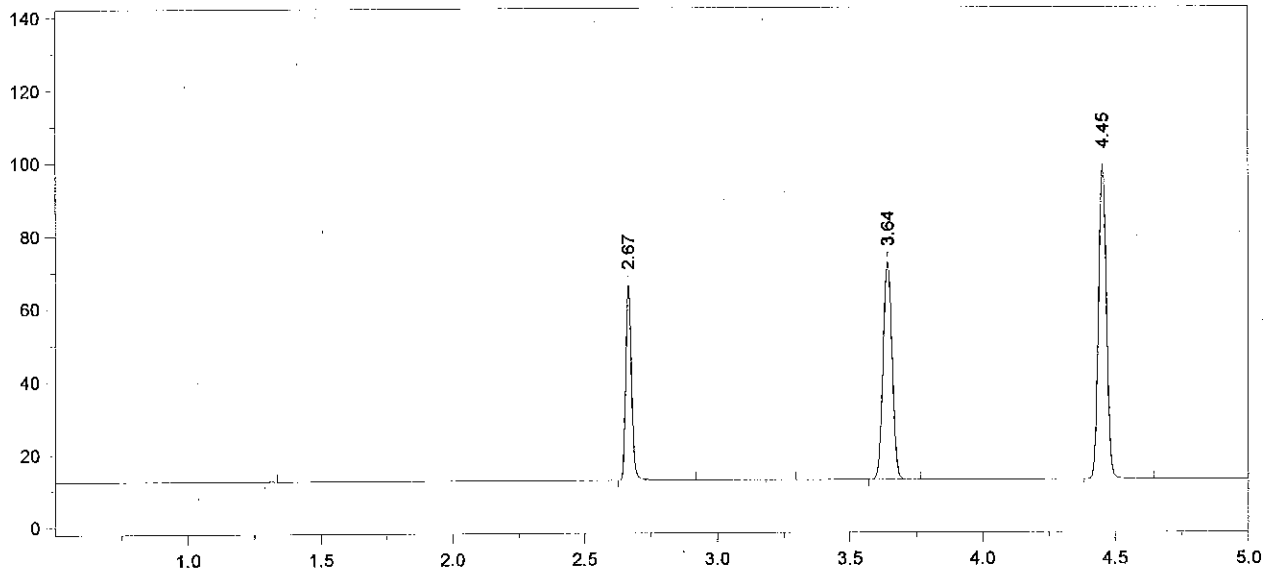
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	182859	0.1926	0.1572
3	3.64	t-Butanol	137437	0.9904	0.8084
4	4.45	n-Propanol	179882	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012
Today's Time = 8:53:43 AM
Bound File Name = SIM07062012.0110.RAW
Sample Name = ~~CCS~~ KW 7/12/12 ~~t-10~~ KW CCS
Date Taken = 7/12/2012 2:39:14 AM
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	81074	0.0839 ✓	0.0685
4	3.64	t-Butanol	144935	1.0264	0.8377
5	4.45	n-Propanol	183055	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 7/12/2012
Today's Time = 8:53:51 AM
Bound File Name = SIM07062012.0111.RAW
Sample Name = CCS
Date Taken = 7/12/2012 2:54:43 AM
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	82922	0.0862	0.0703
4	3.64	t-Butanol	138130	0.9821	0.8016
5	4.45	n-Propanol	182329	1.0000	0.8162