Vermont Department of Health Laboratory
Organic Chemistry Program

195 Colchester Avenue, P.O. Box 1125, Burlington VT 05402-1125
(ph) 802-863-7336; (fax) 802-863-7632

Certificate of Analysis of DataMaster External Standard Solution

On 2/9/2012, an ethanol solution was prepared by Steven Merrill for use as a DataMaster External Standard solution. The solution was prepared per standard laboratory practice and assigned the lot number 12-58-100 and an expiration date of 2/9/2013.

On 2/10/2012 and 2/13/2012, the solution was analyzed against calibration Cal Version #227 and Cal Version #232. Analysis of the solution was performed using headspace gas chromatography. The instrument was calibrated prior to analyses. It was found to have met required quality assurance performance specifications and was operating properly. Quality checks throughout the analytical process demonstrated that the instrument continued to operate properly.

This solution is certified as presenting 0.100 g/210L simulated breath ethanol concentration and approved for use as a DataMaster External Standard solution.

Dated at Burlington, Vermont on Tuesday, February 14, 2012.

02/14/12

Steven Merrill

0.1 External Standard Solution 20L
Lot # 12-58-100
Prepared 02/09/2012 by SRM
Exp 02/09/2013

SRM CAL Version 227
SRM/ALB Vials
Analyzed on 02/10/2012

0.0986 srm
0.0992
0.0997
0.0996
0.1001
0.0973
0.0976
0.1003 alb
0.0986
0.1001
0.1010
0.0996
0.1004
0.0984

Ave. = 0.0993
Std Dev. = 0.0011
Range = 0.0973 - 0.1010

ALB CAL Version 232
SRM/ALB Vials
Analyzed on 02/13/2012

0.1009 srm
0.0987
0.1001
0.1012
0.1004
0.1008
0.1009
0.0995 alb
0.1004
0.1011
0.1014
0.1001
0.0990
0.0992

Ave. = 0.1003
Std Dev. = 0.0009
Range = 0.0987 - 0.1014

Total Values from Both Runs

Average	Mean
0.0973	0.0973
0.0976	0.0976
0.0984	0.0984
0.0986	0.0986
0.0986	
0.0987	0.0987
0.0990	0.0990
0.0992	0.0992
0.0992	
0.0995	0.0995
0.0996	0.0996
0.0996	
0.0997	0.0997
0.1001	0.1001
0.1001	
0.1001	
0.1001	
0.1003	0.1003
0.1004	0.1004
0.1004	
0.1004	
0.1008	0.1008
0.1009	0.1009
0.1009	
0.1010	0.1010
0.1011	0.1011
0.1012	0.1012
0.1014	0.1014

Ave. =	0.0997
Std Dev. =	0.0011
Range =	0.0973 - .1014
Mean =	0.0996
Mean Std Dev. =	0.0012
RPD (Mean to Ave.)=	0.10%

Review
2/14/12

Reviewed
2-14-12

DataMaster Simulator Solution
Lot # 12-58-100 $EtOH_{aq}$ Conc: 0.100
Range: 0.095 - 0.105
Preparation Date: 02/09/2012 Expires: 02/09/2013

OPENED:

File Name: C:\Methods\5890 Blood Methods\SimSolution.cal
Version: 227

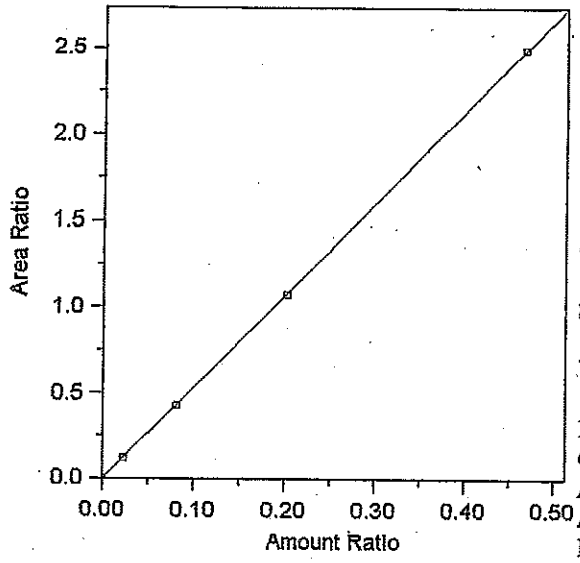
Creator:
Description:
Reason for change:

Internal standard calibration
No injection volume correction
No sample weight correction
Area reject threshold: 15000
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:	2.556 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

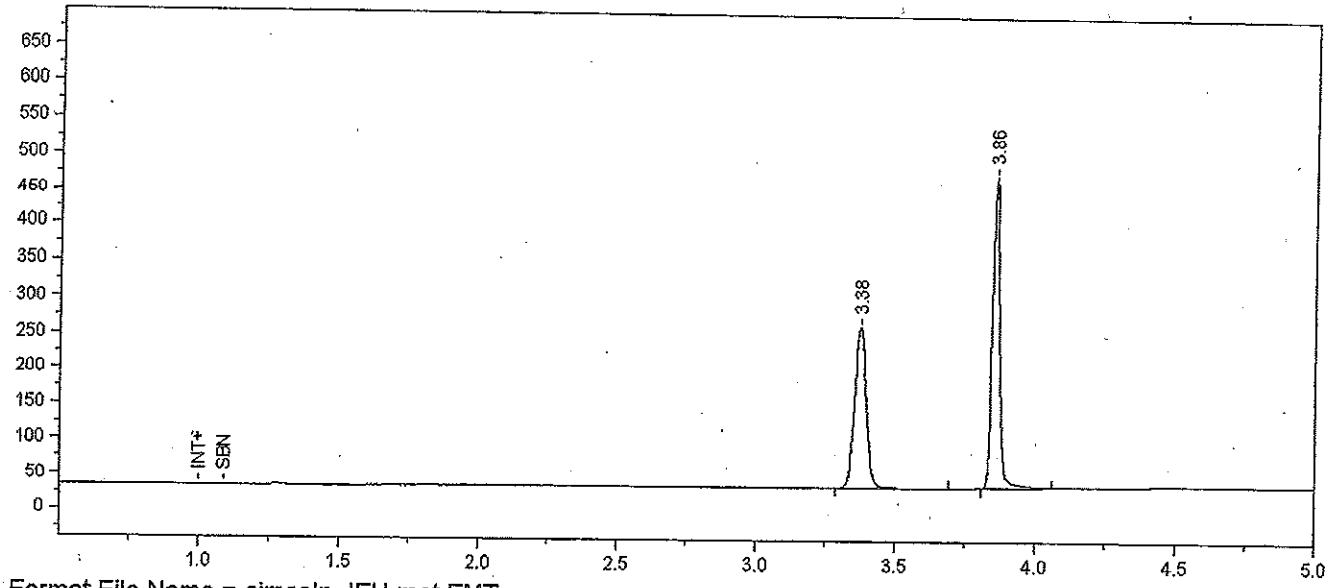
Single peak quantification by area

Y = 5.340052 X + 0

Linear fit with equal weighting, forced to origin

Coefficient of determination:	0.9999893
Average error:	0.644%
Average CF:	4.239132
RSD:	55.910%

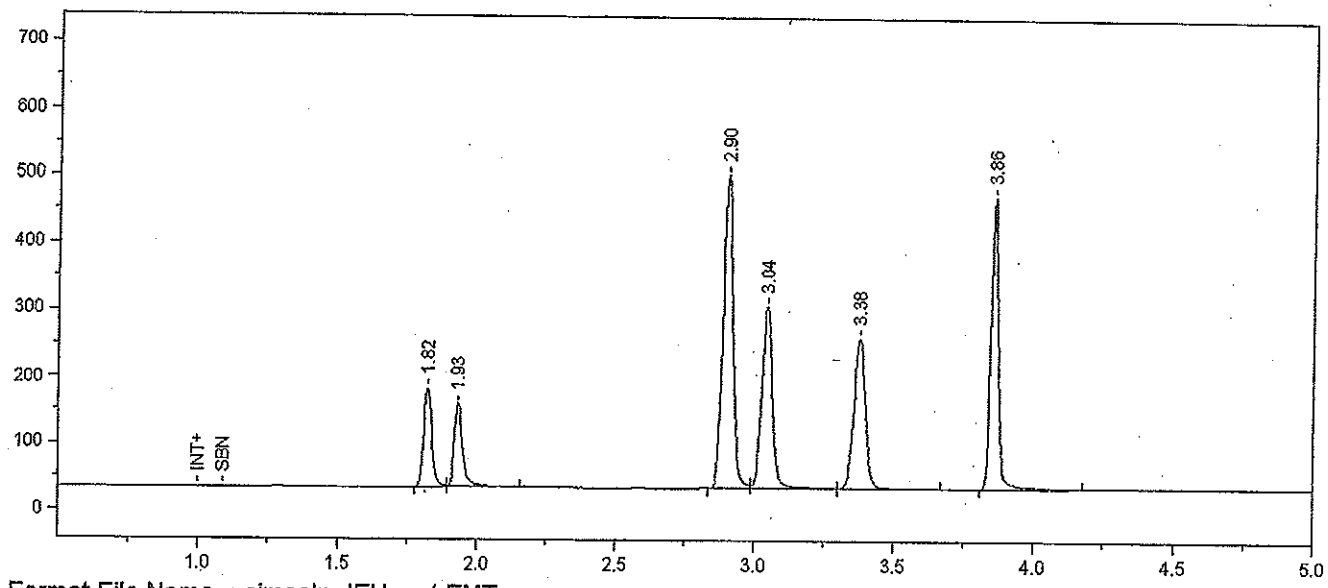
Level	Amount	Response	Cal Factor	Error, %	Amount Ratio	Response Ratio	Source	Date and time
1	0	(0)	--	0.000	0	0	Manual	4/11/2005 10:03:40 AM
2	0.0223	97597.89	4376587	-1.646	0.0223	0.1171229	C:\Blood Alc\Sim020712\Sim020712.0003.BND	2/8/2012 8:42:17 AM
3	0.0814	351164.1	4314055	-1.376	0.0814	0.428697	C:\Blood Alc\Sim020712\Sim020712.0004.BND	2/8/2012 8:42:01 AM
4	0.2016	889544.2	4412422	-0.129	0.2016	1.07517	C:\Blood Alc\Sim020712\Sim020712.0005.BND	2/8/2012 8:41:49 AM
5	0.466	2045922	4390391	0.070	0.466	2.490202	C:\Blood Alc\Sim020712\Sim020712.0006.BND	2/8/2012 8:41:02 AM



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/8/2012
Today's Time = 12:04:51 PM
Bound File Name = Sim020712.0001.RAW
Sample Name = Blank
Date Taken = 2/7/2012 2:33:19 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 227

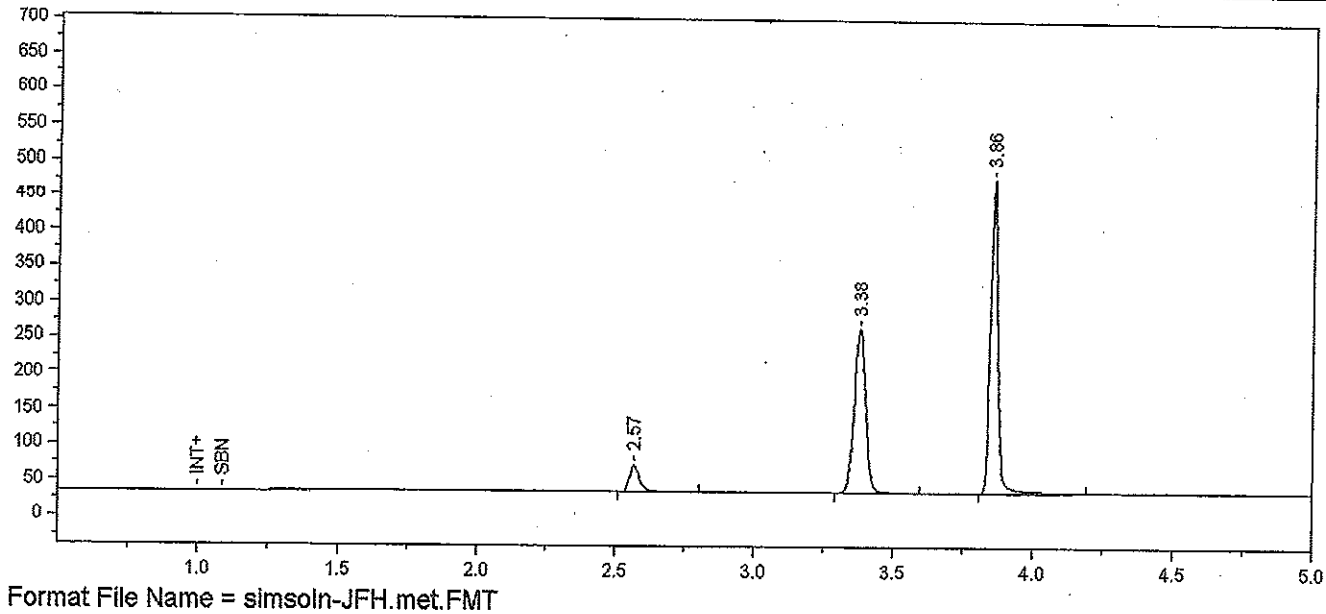
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	3.38	t-Butanol	666745	1.0136	0.8273
2	3.86	n-Propanol	815980	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/8/2012
Today's Time = 12:05:09 PM
Bound File Name = Sim020712.0002.RAW
Sample Name = TMX
Date Taken = 2/7/2012 2:52:31 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 227

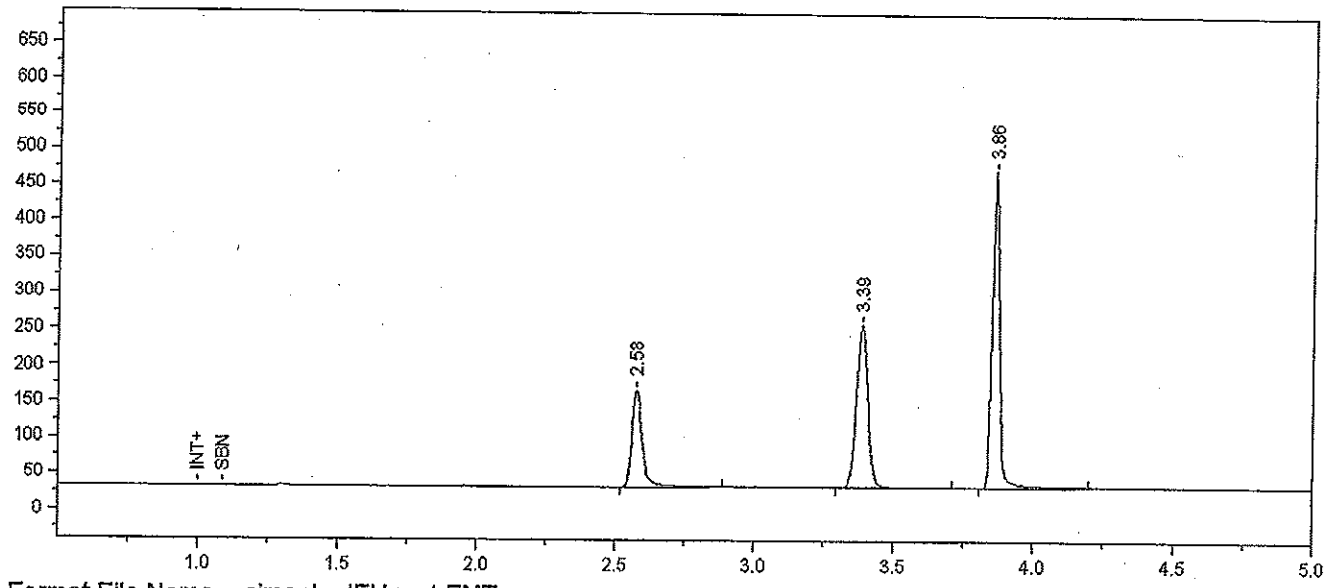
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	1.82	Acetaldehyde	289306	0.0510	0.0416
2	1.93	Methanol	254502	0.1280	0.1045
3	2.90	Acetone	1162799	0.0600	0.0490
4	3.04	Isopropanol	734897	0.0810	0.0661
5	3.38	t-Butanol	666418	1.0033	0.8189
6	3.86	n-Propanol	823983	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/8/2012
Today's Time = 12:05:24 PM
Bound File Name = Sim020712.0003.RAW
Sample Name = Std A
Date Taken = 2/7/2012 3:07:32 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 227

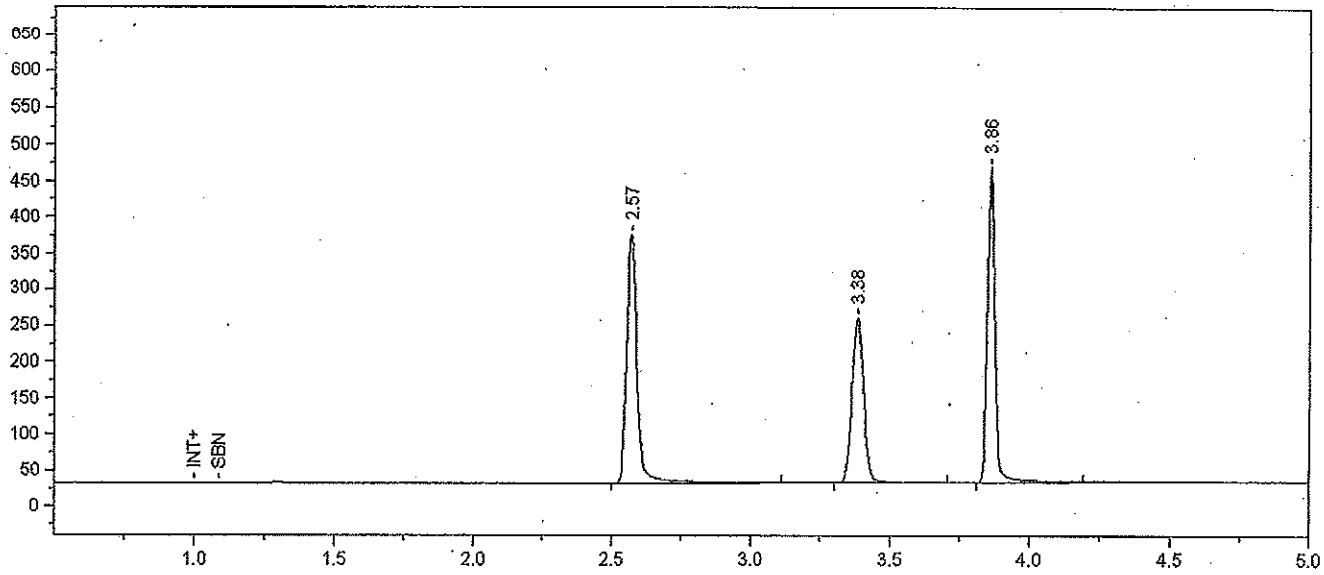
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.57	Ethanol	97598	0.0219	0.0179
2	3.38	t-Butanol	671126	0.9991	0.8155
3	3.86	n-Propanol	833295	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/8/2012
Today's Time = 12:05:40 PM
Bound File Name = Sim020712.0004.RAW
Sample Name = Std B
Date Taken = 2/7/2012 3:22:33 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 227

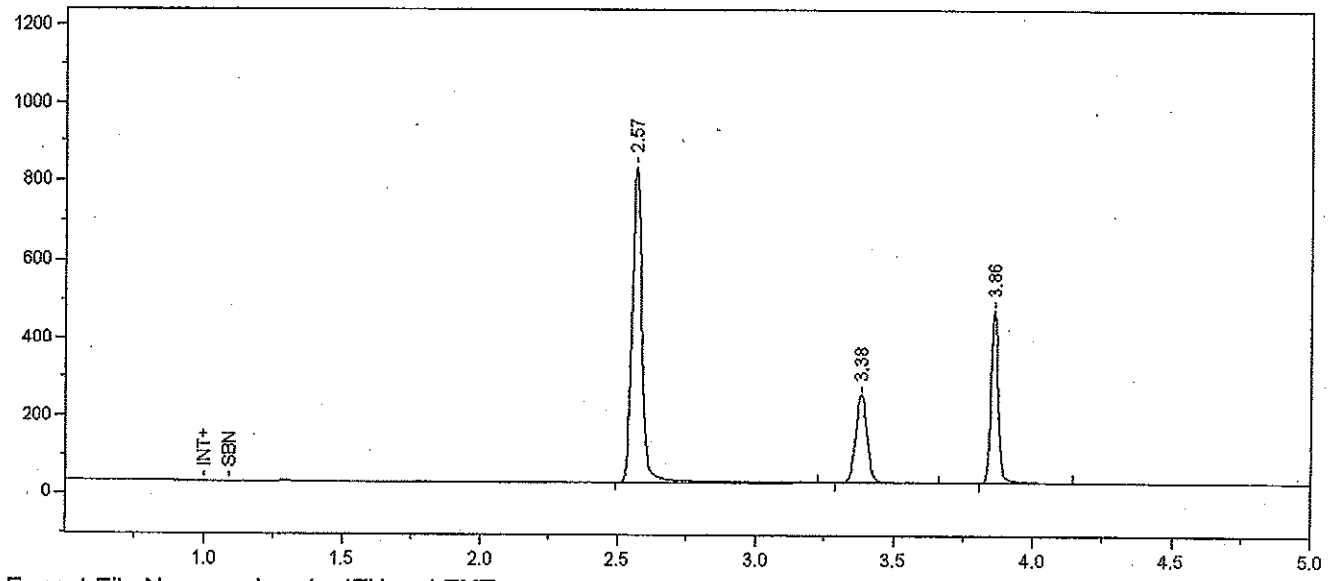
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.58	Ethanol	351164	0.0803	0.0655
2	3.39	t-Butanol	659982	0.9995	0.8158
3	3.86	n-Propanol	819143	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/8/2012
Today's Time = 12:05:54 PM
Bound File Name = Sim020712.0005.RAW
Sample Name = Std C
Date Taken = 2/7/2012 3:37:34 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 227

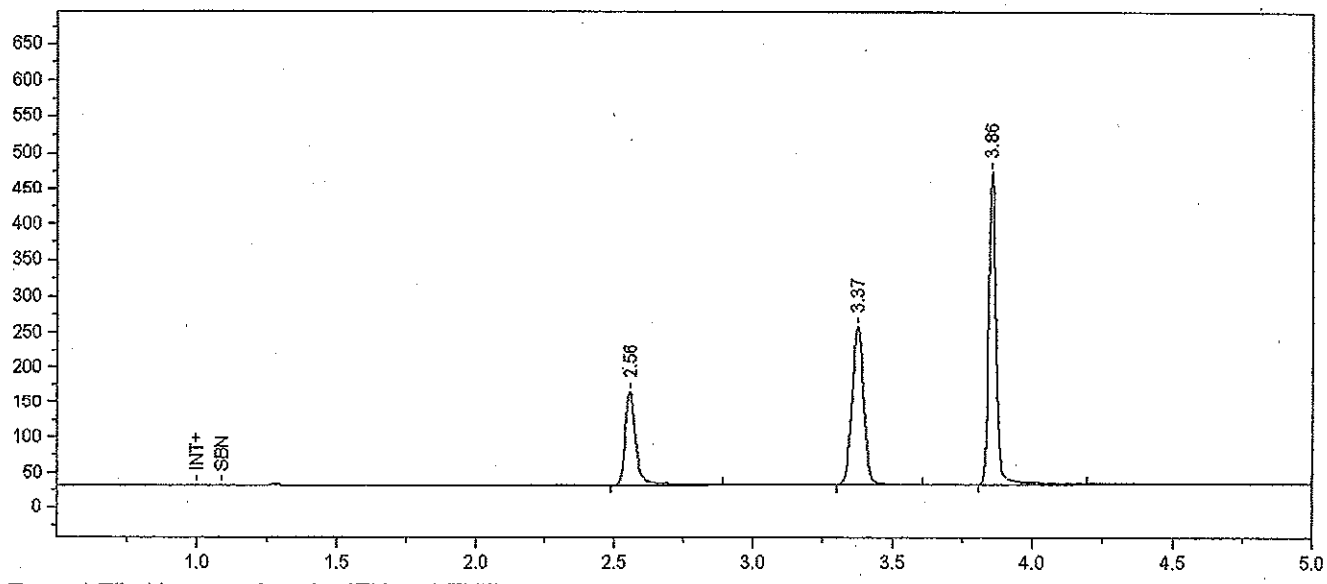
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.57	Ethanol	889544	0.2013	0.1643
2	3.38	t-Butanol	666388	0.9992	0.8155
3	3.86	n-Propanol	827352	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/8/2012
Today's Time = 12:06:09 PM
Bound File Name = Sim020712.0006.RAW
Sample Name = Std D
Date Taken = 2/7/2012 3:52:34 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 227

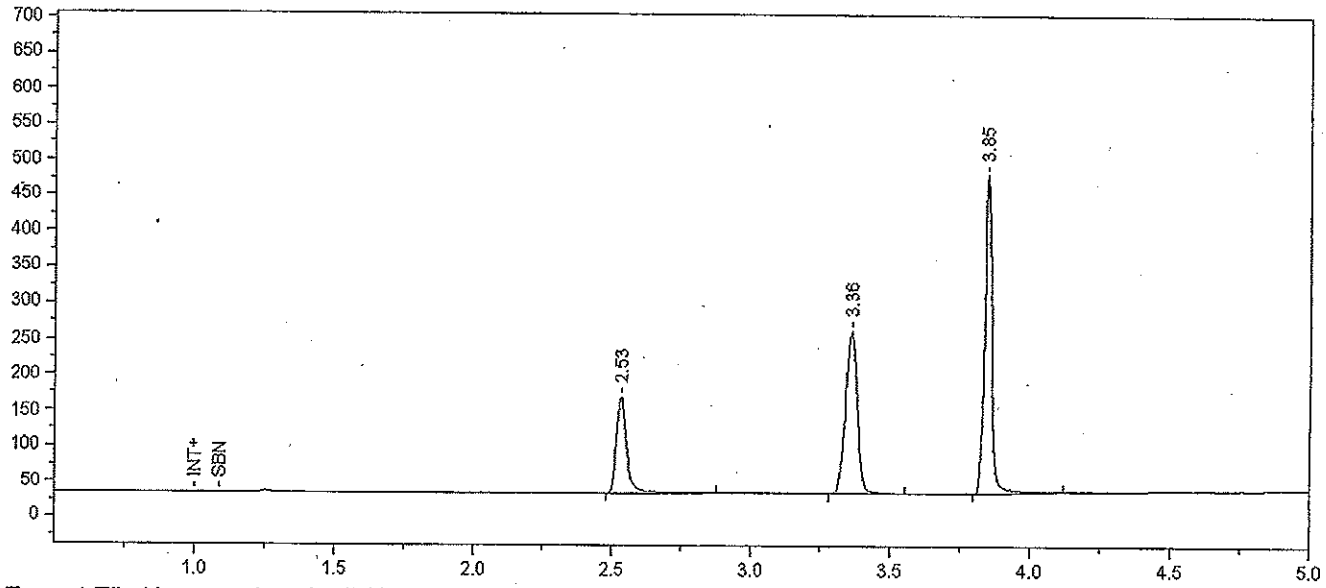
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.57	Ethanol	2045922	0.4663	0.3806
2	3.38	t-Butanol	661605	0.9990	0.8153
3	3.86	n-Propanol	821589	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/8/2012 Today's Time = 12:06:23 PM
Bound File Name = Sim020712.0007.RAW
Sample Name = AQ QC
Date Taken = 2/7/2012 4:07:41 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 227

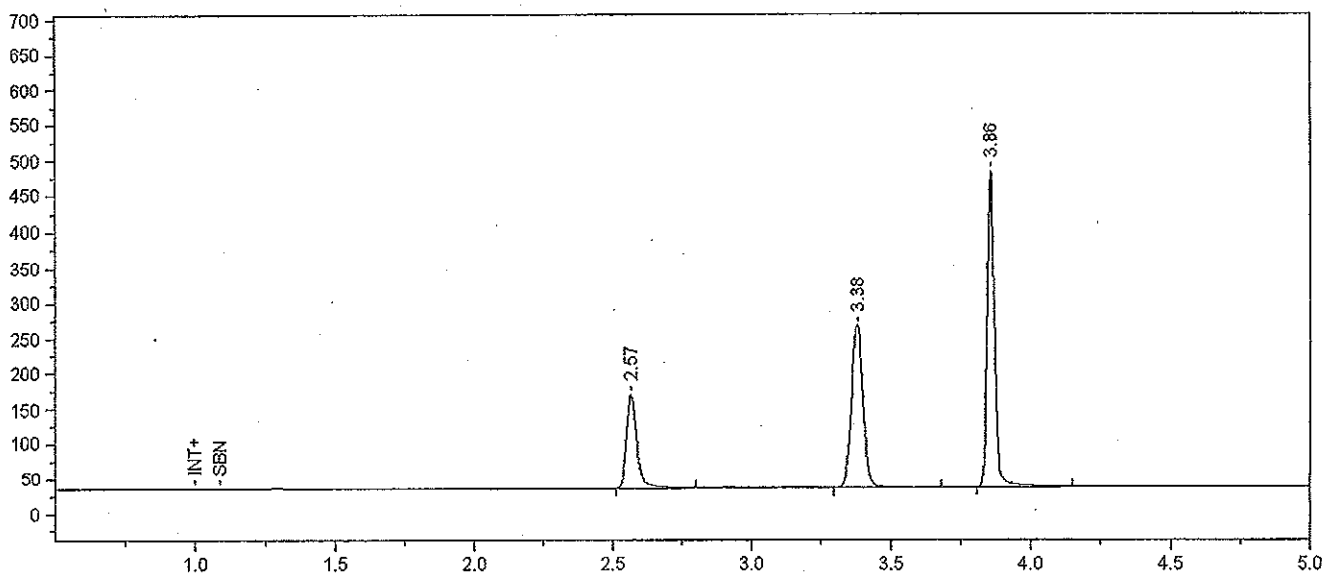
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	355948	0.0807	0.0659
2	3.37	t-Butanol	659311	0.9906	0.8085
3	3.86	n-Propanol	825663	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/13/2012
Today's Time = 8:24:24 AM
Bound File Name = Sim021012.0001.RAW
Sample Name = CCS B
Date Taken = 2/10/2012 10:34:55 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 227

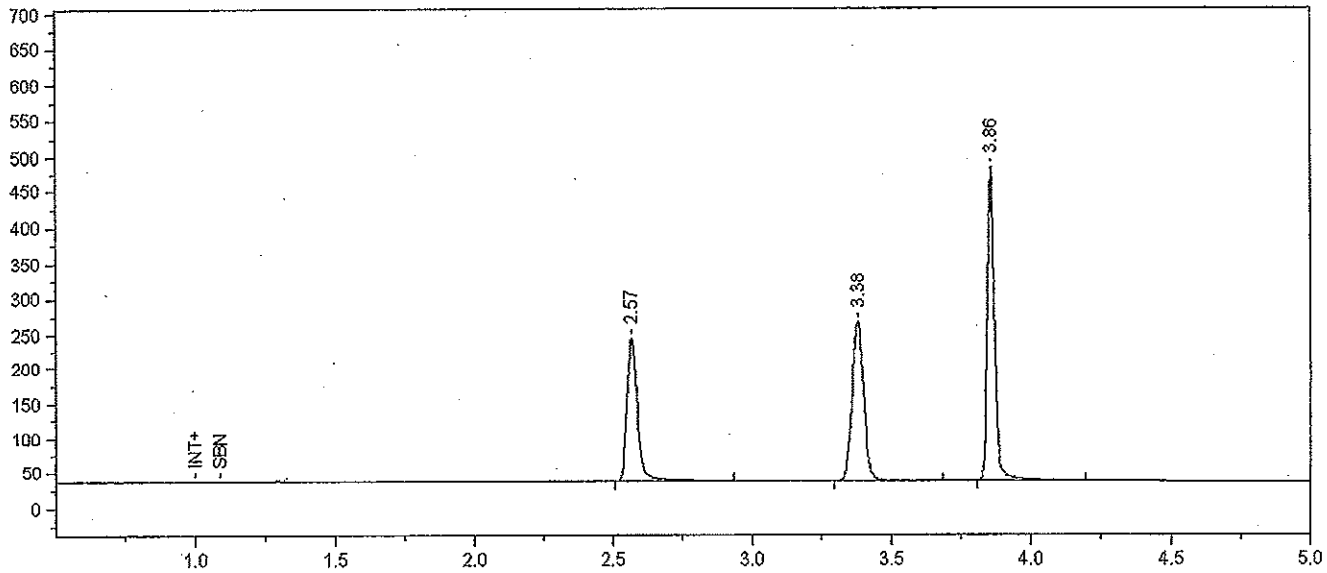
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.53	Ethanol	357314	0.0802	0.0655
2	3.36	t-Butanol	672197	0.9999	0.8161
3	3.85	n-Propanol	833939	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/13/2012 Today's Time = 8:24:46 AM
Bound File Name = Sim021012.0002.RAW
Sample Name = CCS B
Date Taken = 2/10/2012 10:49:38 AM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 227

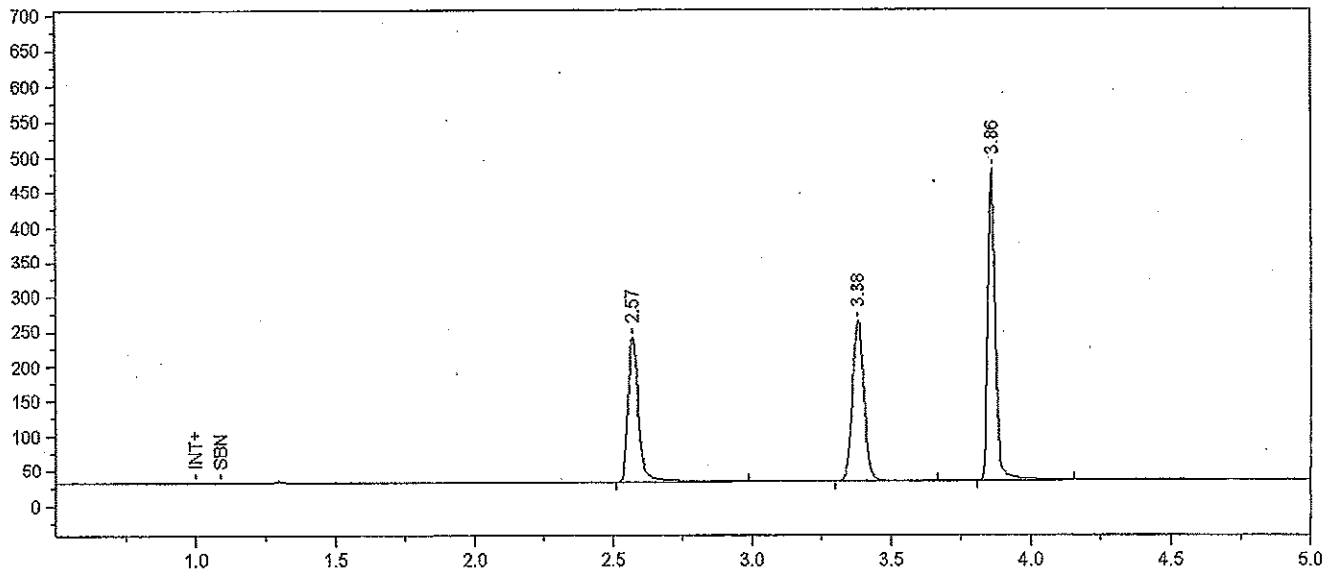
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.57	Ethanol	346380	0.0777	0.0634
2	3.38	t-Butanol	674860	1.0033	0.8189
3	3.86	n-Propanol	834426	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/13/2012 Today's Time = 8:25:07 AM
Bound File Name = Sim021012.0003.RAW
Sample Name = 0.1 Sim Sol - SRM
Date Taken = 2/10/2012 11:04:39 AM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 227

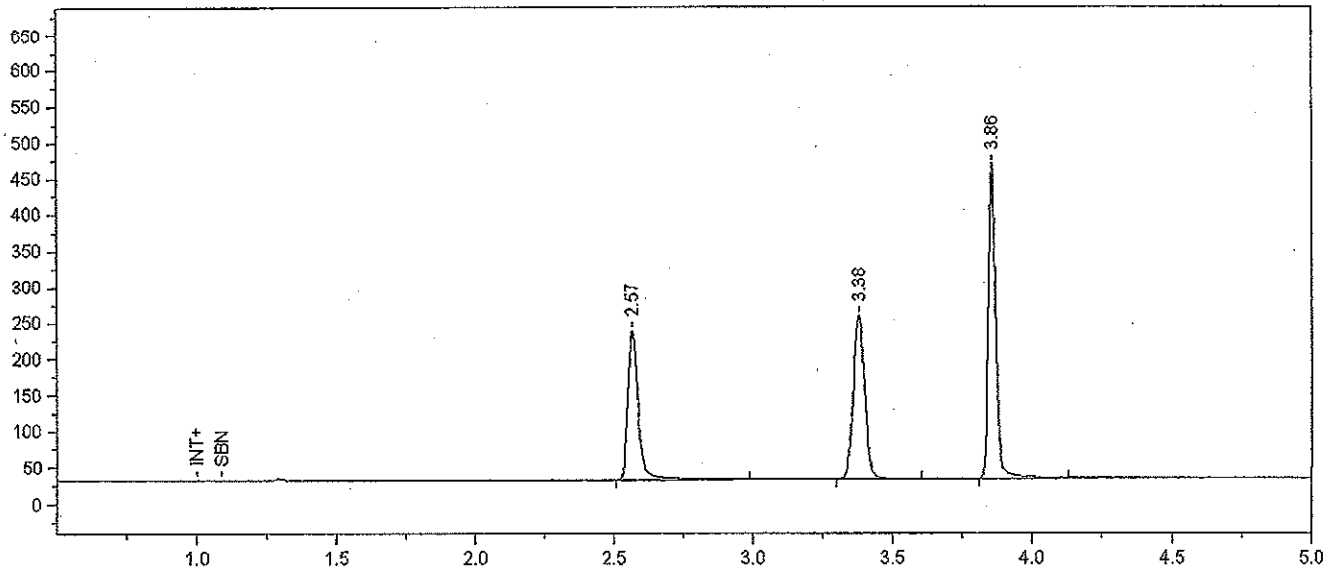
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.57	Ethanol	537633	0.1207	0.0986
2	3.38	t-Butanol	671149	0.9985	0.8150
3	3.86	n-Propanol	833802	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/13/2012 Today's Time = 8:25:21 AM
Bound File Name = Sim021012.0004.RAW
Sample Name = 0.1 Sim Sol - SRM
Date Taken = 2/10/2012 11:19:40 AM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 227

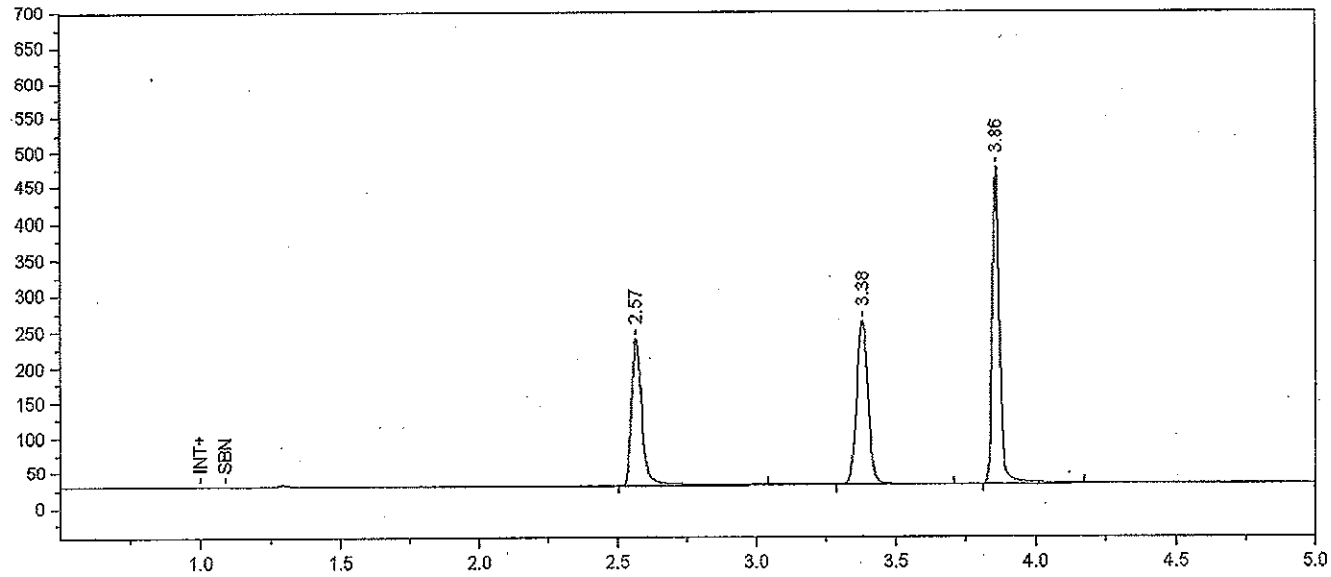
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.57	Ethanol	539005	0.1216	0.0992
2	3.38	t-Butanol	669780	1.0006	0.8167
3	3.86	n-Propanol	830348	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/13/2012
Today's Time = 8:25:36 AM
Bound File Name = Sim021012.0005.RAW
Sample Name = 0.1 Sim Sol - SRM
Date Taken = 2/10/2012 11:34:42 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 227

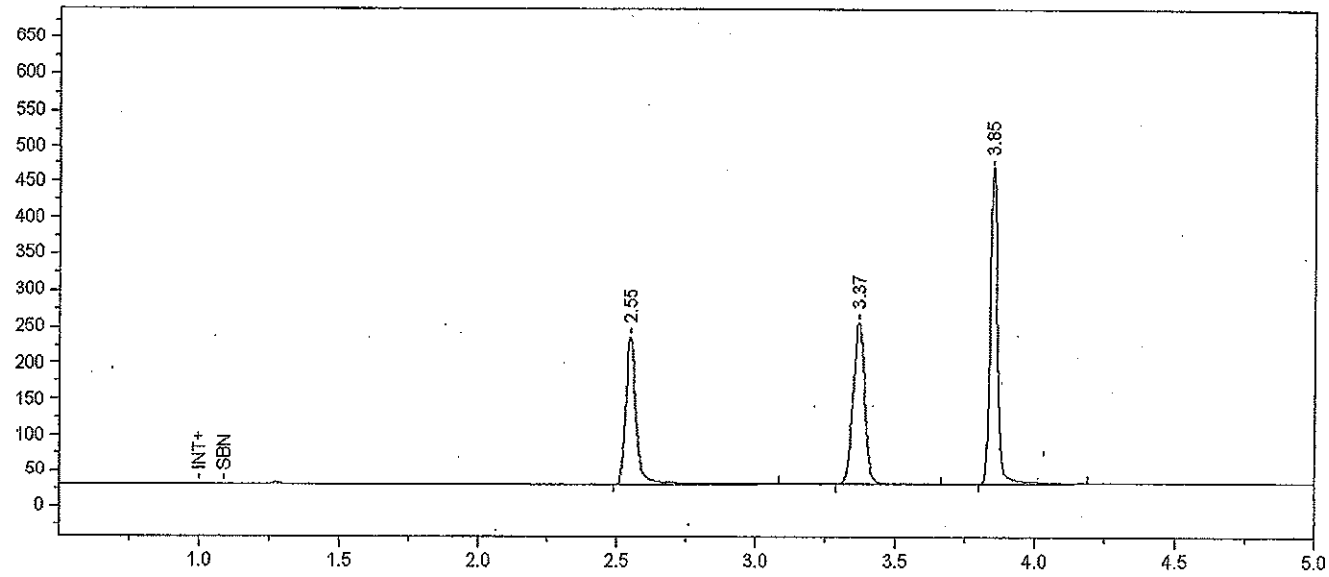
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.57	Ethanol	531169	0.1221	0.0997
2	3.38	t-Butanol	654892	0.9972	0.8139
3	3.86	n-Propanol	814650	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/13/2012
Today's Time = 8:25:58 AM
Bound File Name = Sim021012.0006.RAW
Sample Name = 0.1 Sim Sol - SRM
Date Taken = 2/10/2012 11:49:42 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 227

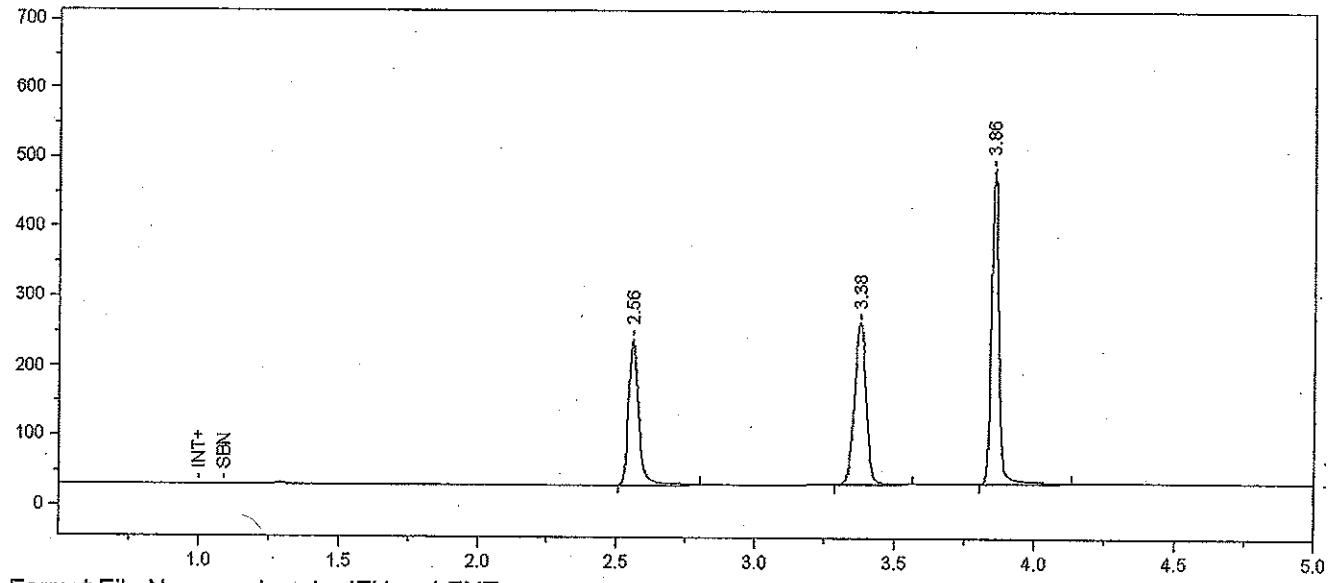
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.57	Ethanol	543325	0.1220	0.0996
2	3.38	t-Butanol	675109	1.0045	0.8198
3	3.86	n-Propanol	833764	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/13/2012
Today's Time = 8:26:16 AM
Bound File Name = Sim021012.0007.RAW
Sample Name = 0.1 Sim Sol - SRM
Date Taken = 2/10/2012 12:04:49 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 227

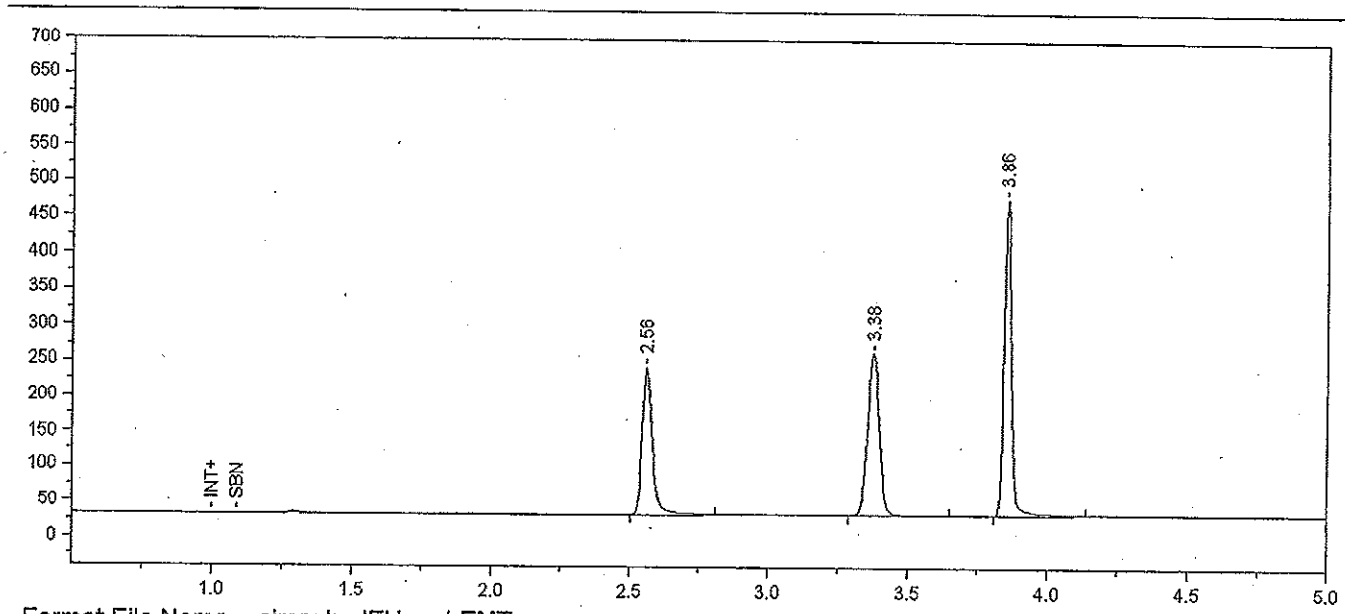
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.55	Ethanol	543196	0.1226	0.1001
2	3.37	t-Butanol	664955	0.9946	0.8118
3	3.85	n-Propanol	829401	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/13/2012
Today's Time = 7:49:46 AM
Bound File Name = Sim021012.0008.RAW
Sample Name = 0.1 Sim Sol - SRM
Date Taken = 2/10/2012 12:19:49 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 227

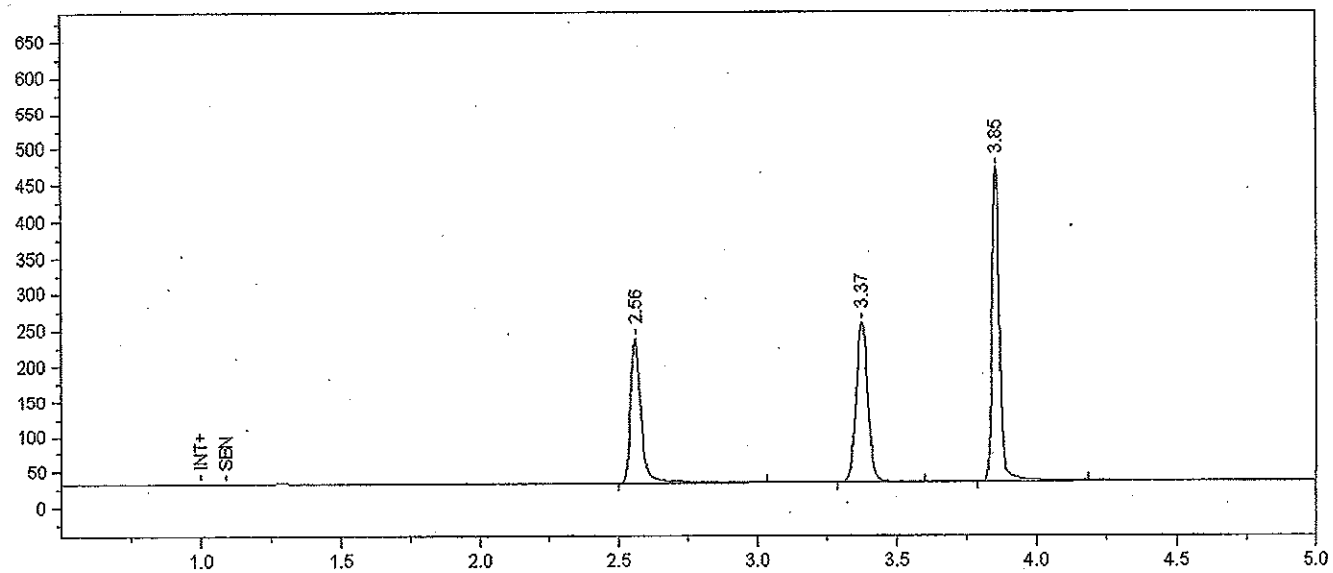
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	535090	0.1192	0.0973
2	3.38	t-Butanol	677668	1.0002	0.8164
3	3.86	n-Propanol	840495	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/13/2012
Today's Time = 7:50:04 AM
Bound File Name = Sim021012.0009.RAW
Sample Name = 0.1 Sim Sol - SRM
Date Taken = 2/10/2012 12:34:45 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 227

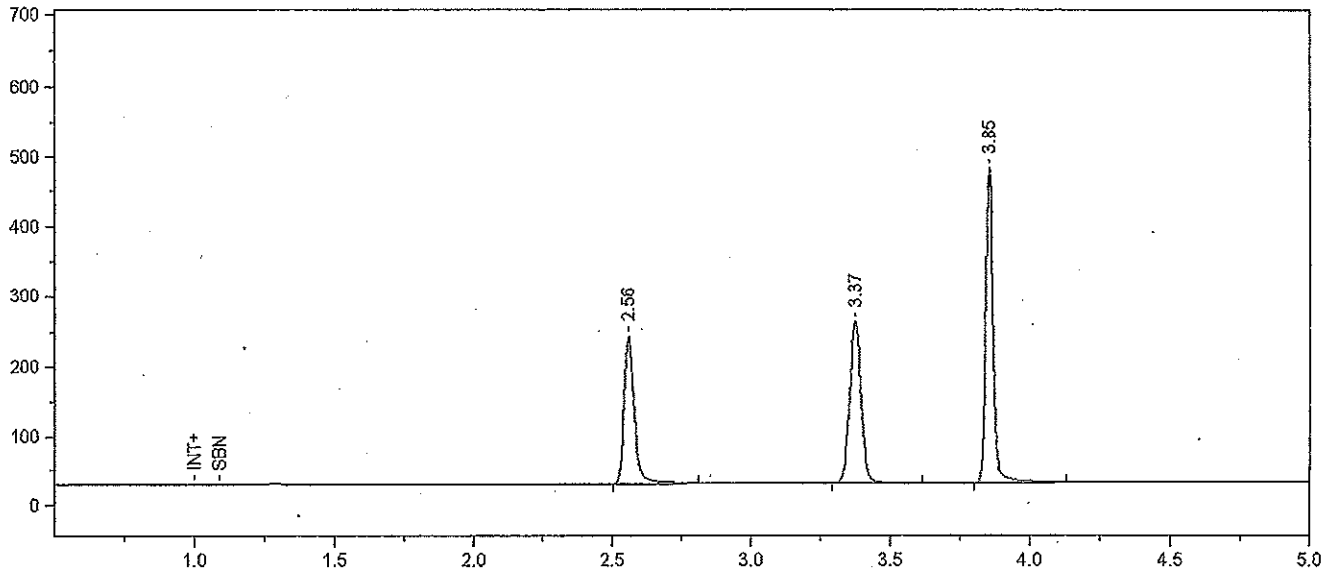
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	534949	0.1196	0.0976
2	3.38	t-Butanol	675892	1.0011	0.8171
3	3.86	n-Propanol	837529	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/13/2012 Today's Time = 7:50:27 AM
Bound File Name = Sim021012.0010.RAW
Sample Name = 0.1 Sim Sol - ALB
Date Taken = 2/10/2012 12:49:46 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 227

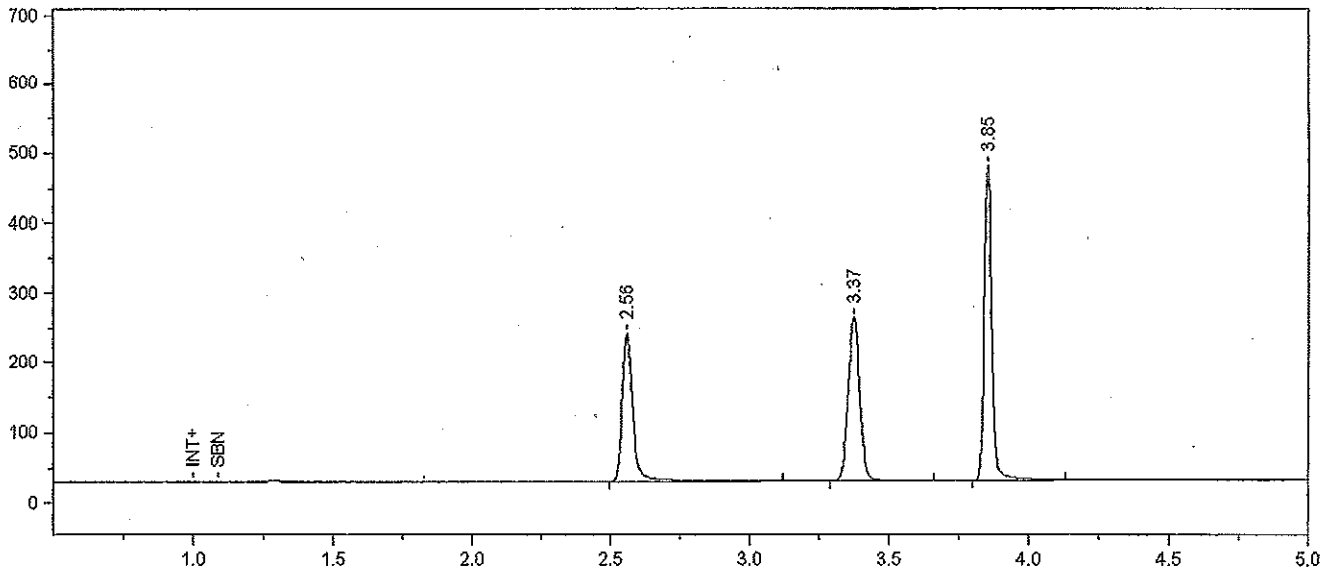
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	540216	0.1229	0.1003
2	3.37	t-Butanol	660222	0.9947	0.8119
3	3.85	n-Propanol	823348	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/13/2012 Today's Time = 7:50:42 AM
Bound File Name = Sim021012.0011.RAW
Sample Name = 0.1 Sim Sol - ALB
Date Taken = 2/10/2012 1:04:47 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 227

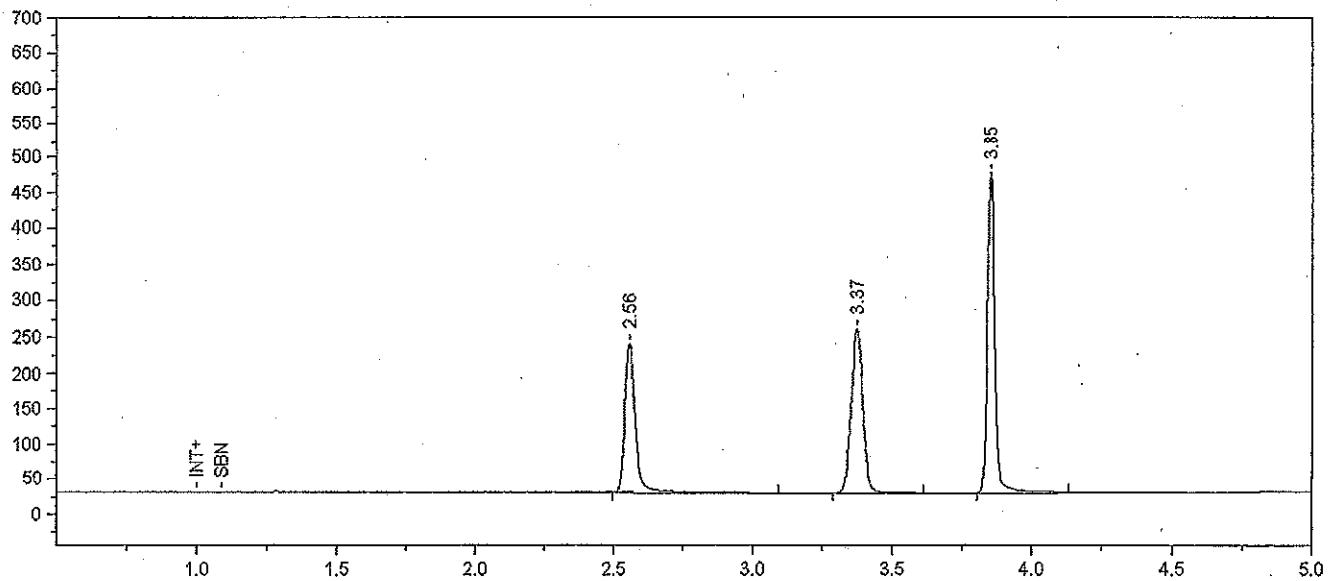
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	543836	0.1209	0.0986
2	3.37	t-Butanol	678921	0.9994	0.8157
3	3.85	n-Propanol	842683	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/13/2012 Today's Time = 7:51:04 AM
Bound File Name = Sim021012.0012.RAW
Sample Name = 0.1 Sim Sol - ALB
Date Taken = 2/10/2012 1:19:48 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 227

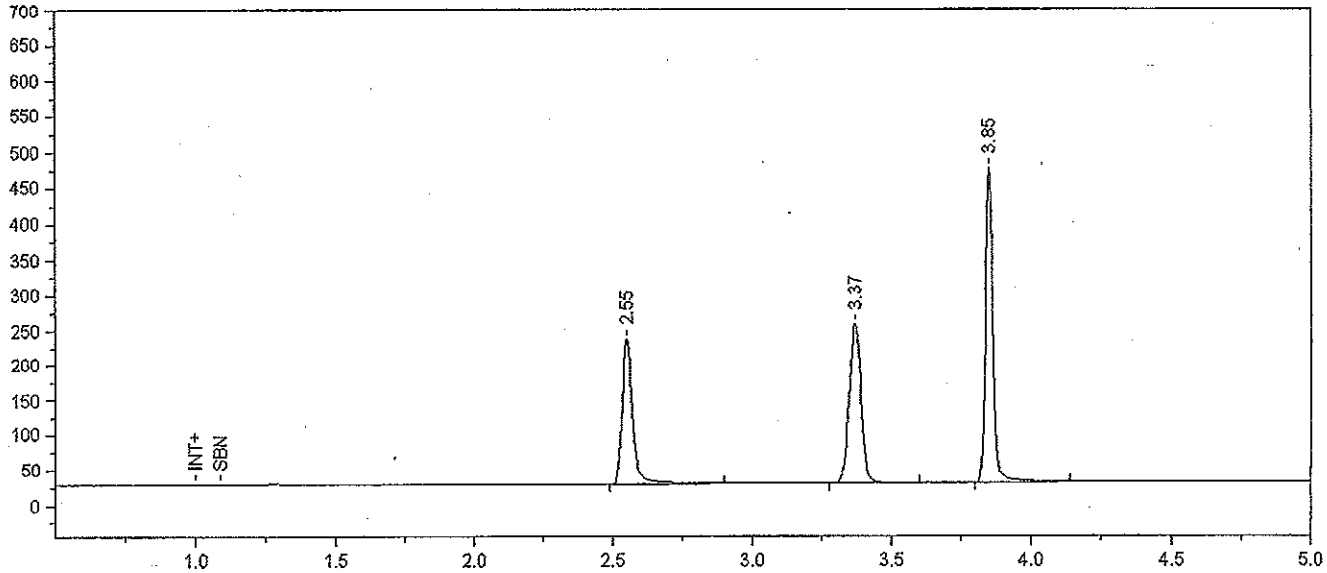
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	553778	0.1227	0.1001
2	3.37	t-Butanol	681859	1.0008	0.8168
3	3.85	n-Propanol	845185	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/13/2012 Today's Time = 7:51:25 AM
Bound File Name = Sim021012.0013.RAW
Sample Name = 0.1 Sim Sol - ALB
Date Taken = 2/10/2012 1:34:50 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 227

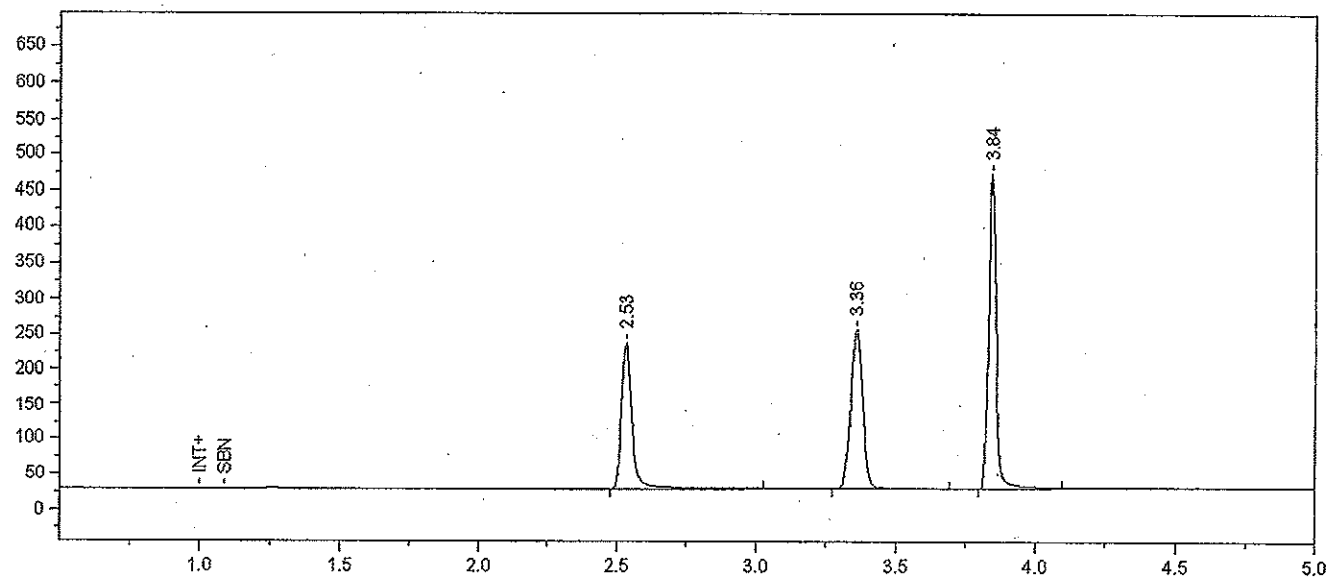
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	552273	0.1238	0.1010
2	3.37	t-Butanol	674062	1.0008	0.8168
3	3.85	n-Propanol	835529	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/13/2012 Today's Time = 7:51:47 AM
Bound File Name = Sim021012.0014.RAW
Sample Name = 0.1 Sim Sol - ALB
Date Taken = 2/10/2012 1:49:51 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 227

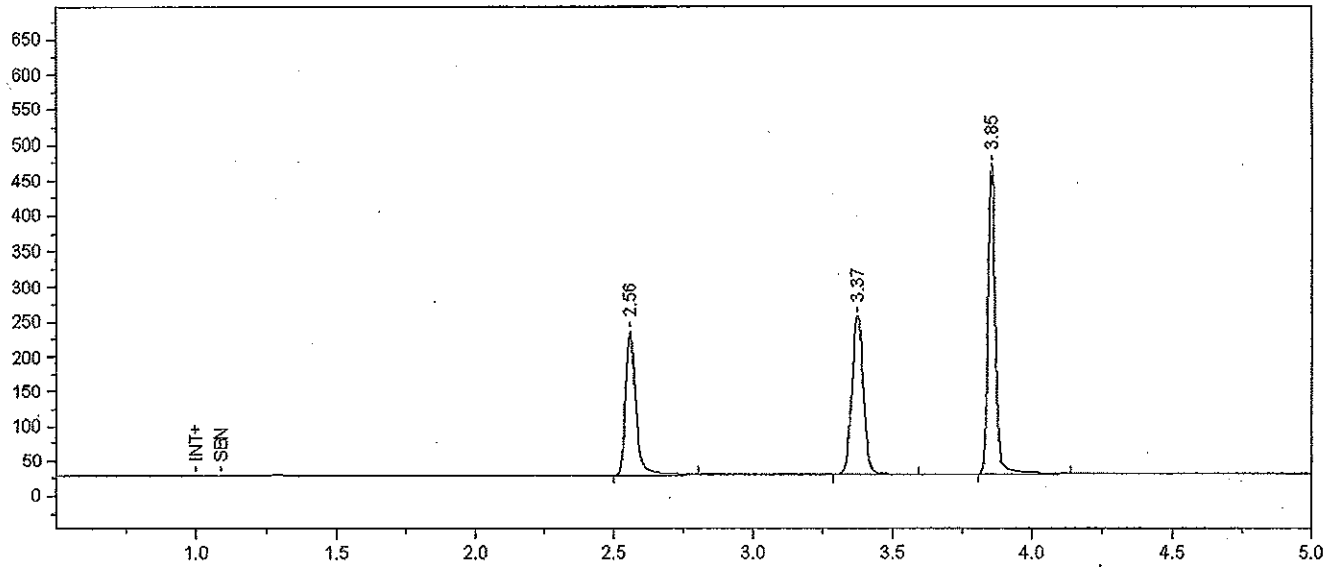
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.55	Ethanol	542946	0.1220	0.0996
2	3.37	t-Butanol	671890	1.0002	0.8164
3	3.85	n-Propanol	833336	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/13/2012
Today's Time = 7:52:06 AM
Bound File Name = Sim021012.0015.RAW
Sample Name = 0.1 Sim Sol - ALB
Date Taken = 2/10/2012 2:04:53 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 227

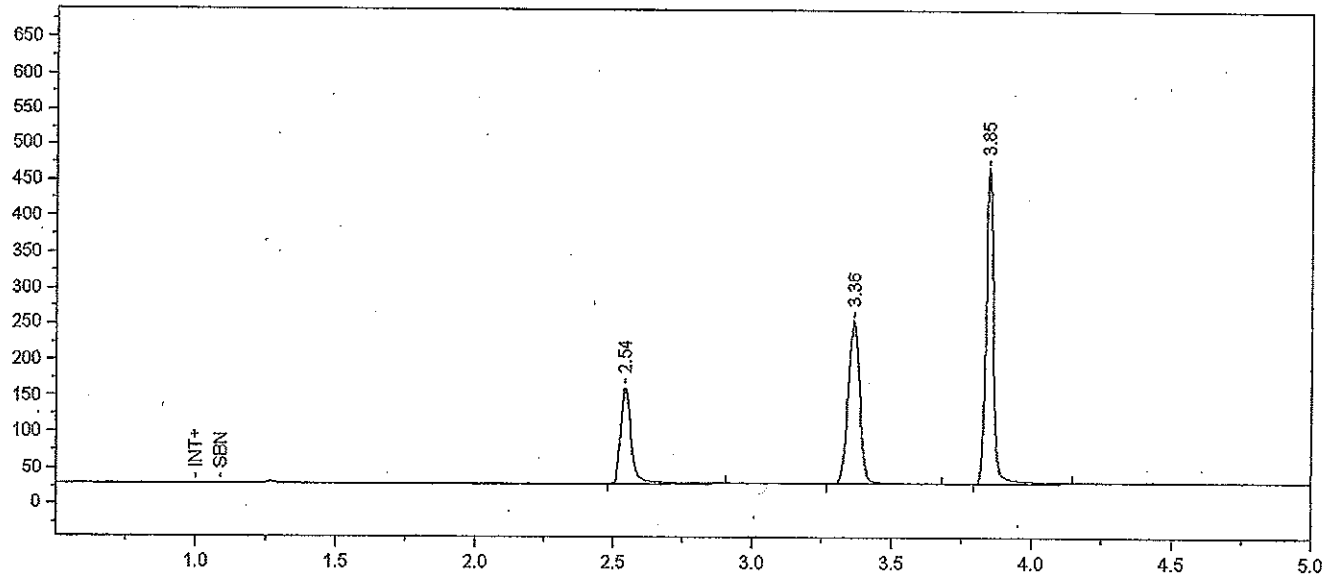
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.53	Ethanol	547528	0.1230	0.1004
2	3.36	t-Butanol	675257	1.0049	0.8202
3	3.84	n-Propanol	833577	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/13/2012 Today's Time = 7:52:26 AM
Bound File Name = Sim021012.0016.RAW
Sample Name = 0.1 Sim Sol - ALB
Date Taken = 2/10/2012 2:19:53 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 227

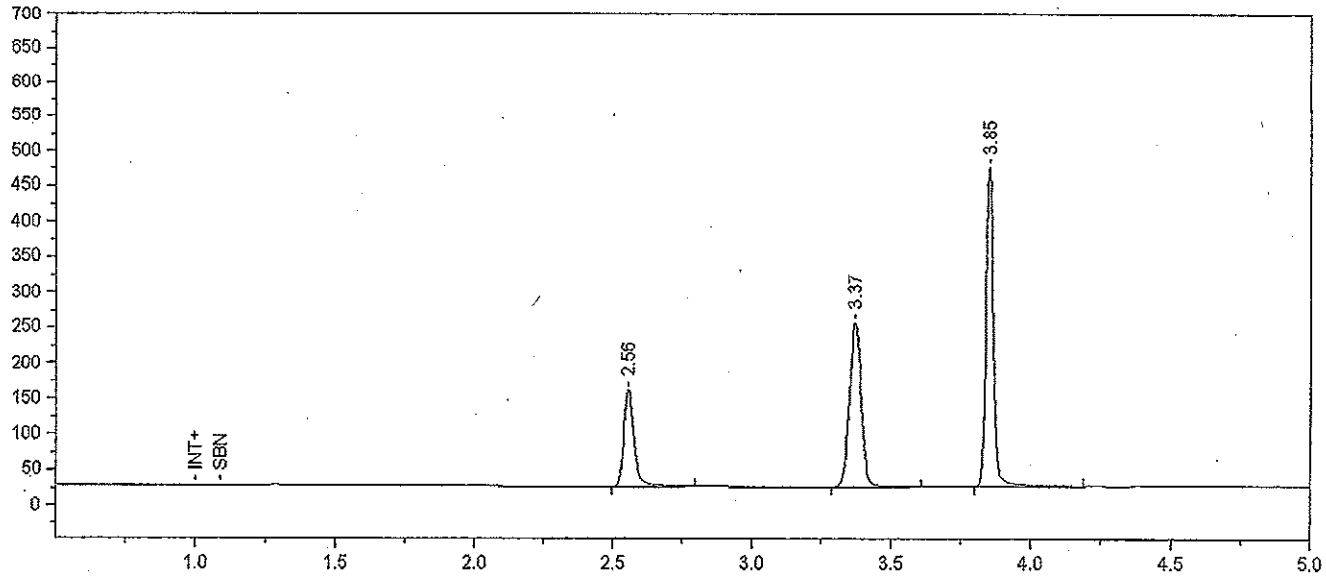
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	535101	0.1205	0.0984
2	3.37	t-Butanol	669433	0.9989	0.8153
3	3.85	n-Propanol	831338	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/13/2012
Today's Time = 7:52:54 AM
Bound File Name = Sim021012.0017.RAW
Sample Name = CCS B
Date Taken = 2/10/2012 2:34:54 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 227

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.54	Ethanol	353018	0.0799	0.0652
2	3.36	t-Butanol	664833	0.9969	0.8137
3	3.85	n-Propanol	827287	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/13/2012 Today's Time = 7:53:16 AM
Bound File Name = Sim021012.0018.RAW
Sample Name = CCS B
Date Taken = 2/10/2012 2:49:54 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 227

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	350237	0.0778	0.0635
2	3.37	t-Butanol	675689	0.9941	0.8114
3	3.85	n-Propanol	843158	1.0000	0.8162

File Name: C:\Methods\5890 Blood Methods\SimSolution.cal
Version: 232

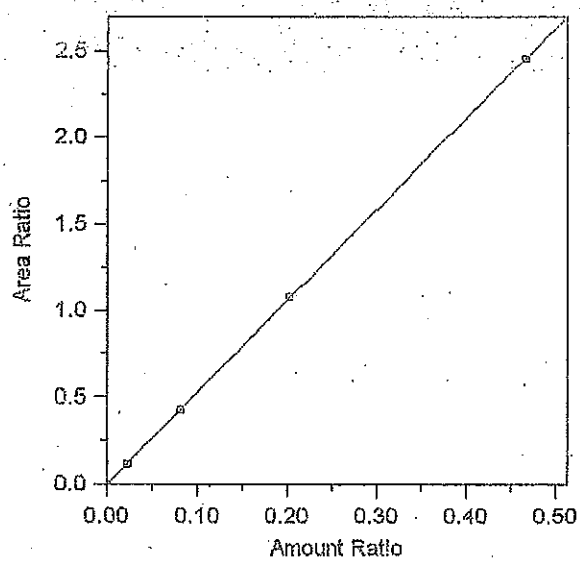
Creator:
Description:
Reason for change:

Internal standard calibration
No injection volume correction
No sample weight correction
Area reject threshold: 15000
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:	2.565 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

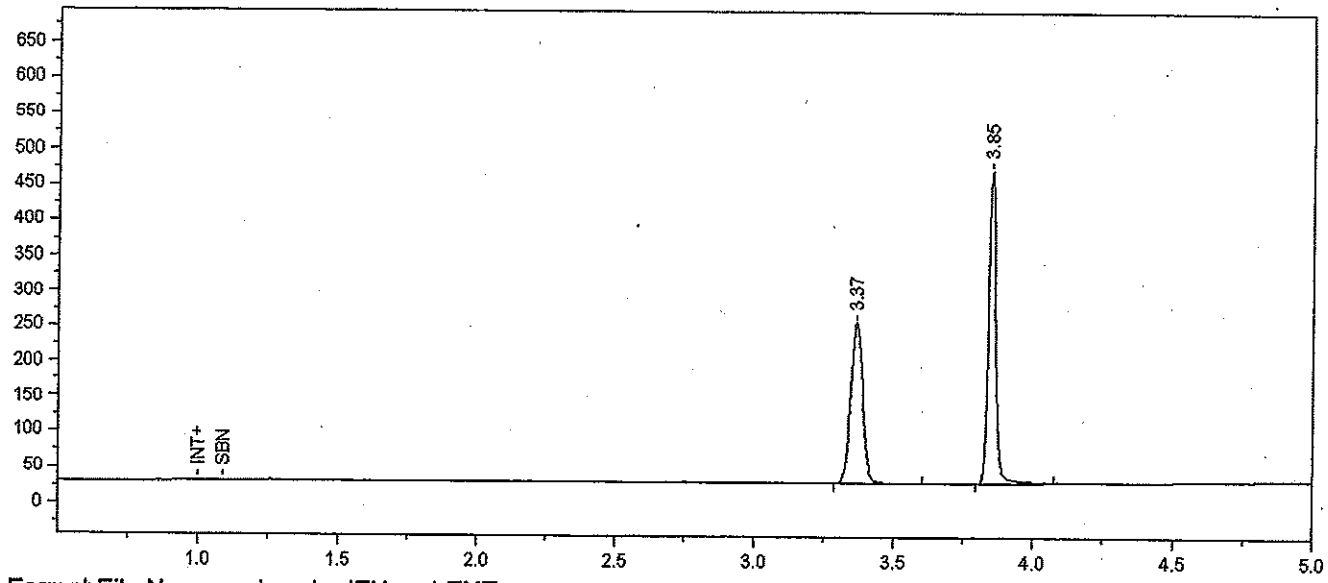
Single peak quantification by area

Y = 5.283177 X + 0

Linear fit with equal weighting, forced to origin

Coefficient of determination:	0.9999518
Average error:	0.550%
Average CF:	4.222361
RSD:	55.910%

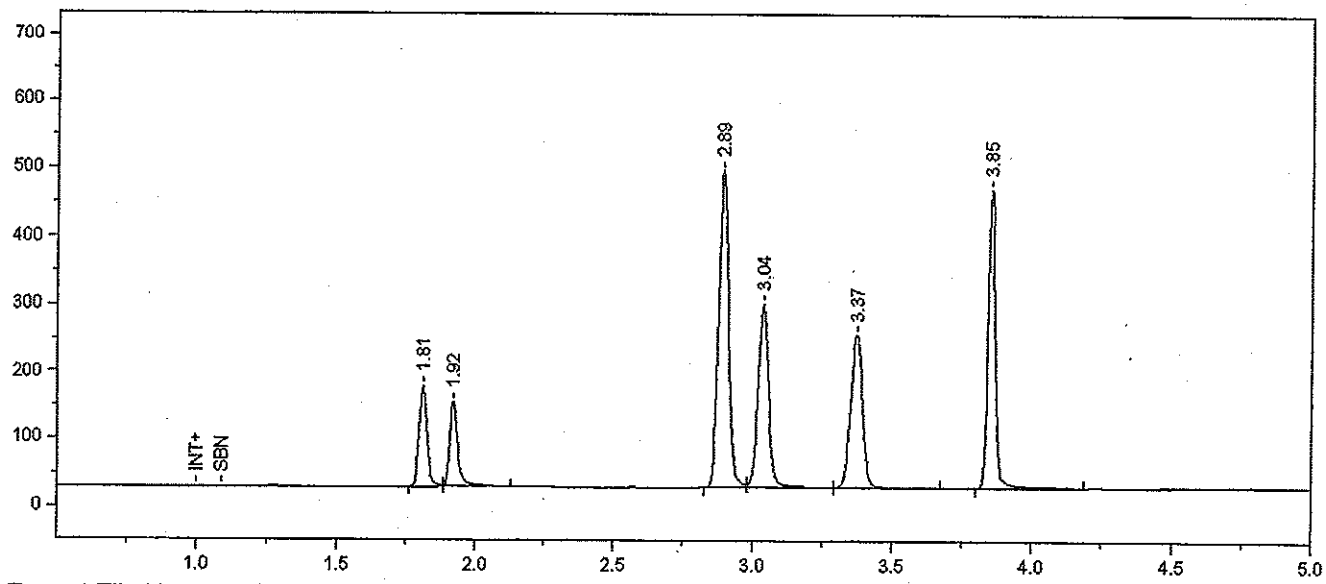
Level	Amount	Response	Cal Factor	Error, %	Amount Ratio	Response Ratio	Source	Date and time
1	0	(0)	--	0.000	0	0	Manual	4/11/2005 10:03:40 AM
2	0.0223	97731.25	4382568	-0.445	0.0223	0.11729	C:\Blood Alc\Sim021312\Sim021312.0003.BND	2/13/2012 9:55:28 AM
3	0.0814	352425	4329546	-0.937	0.0814	0.4260215	C:\Blood Alc\Sim021312\Sim021312.0004.BND	2/13/2012 10:10:31 AM
4	0.2016	888663.6	4408054	1.177	0.2016	1.077629	C:\Blood Alc\Sim021312\Sim021312.0005.BND	2/13/2012 10:25:36 AM
5	0.466	2029388	4354910	-0.191	0.466	2.457264	C:\Blood Alc\Sim021312\Sim021312.0006.BND	2/13/2012 10:40:33 AM



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/14/2012
Today's Time = 8:08:09 AM
Bound File Name = Sim021312.0001.RAW
Sample Name = Blank
Date Taken = 2/13/2012 9:25:48 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 232

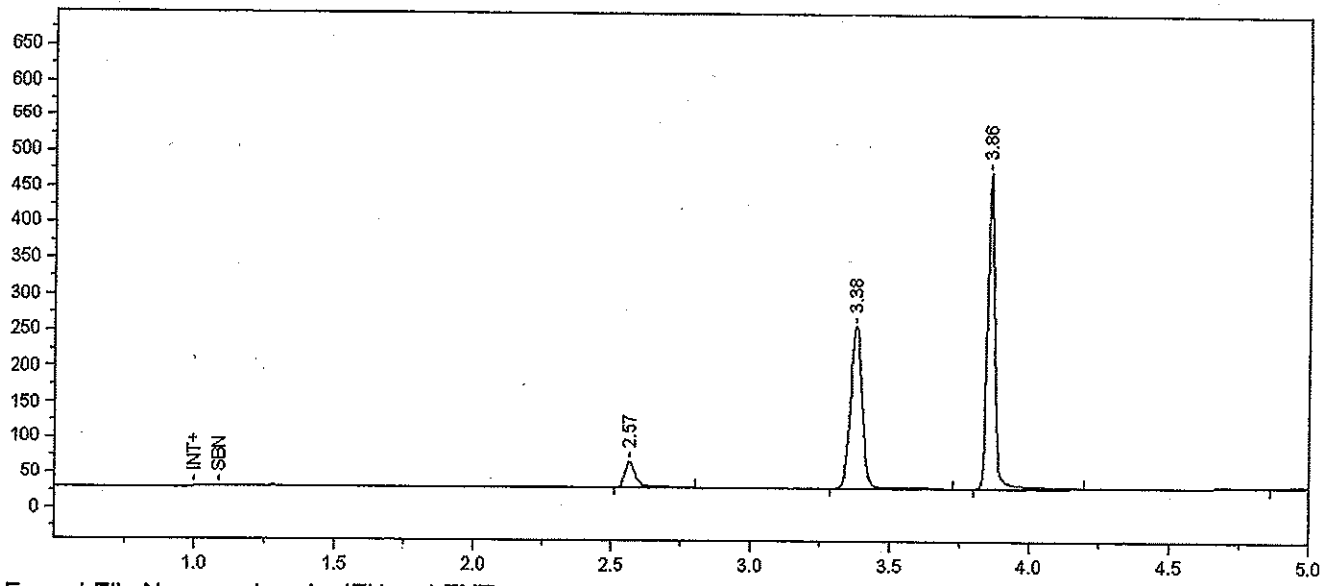
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	3.37	t-Butanol	672852	1.0072	0.8221
2	3.85	n-Propanol	825739	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/14/2012
Today's Time = 8:09:16 AM
Bound File Name = Sim021312.0002.RAW
Sample Name = TMX
Date Taken = 2/13/2012 9:40:25 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 232

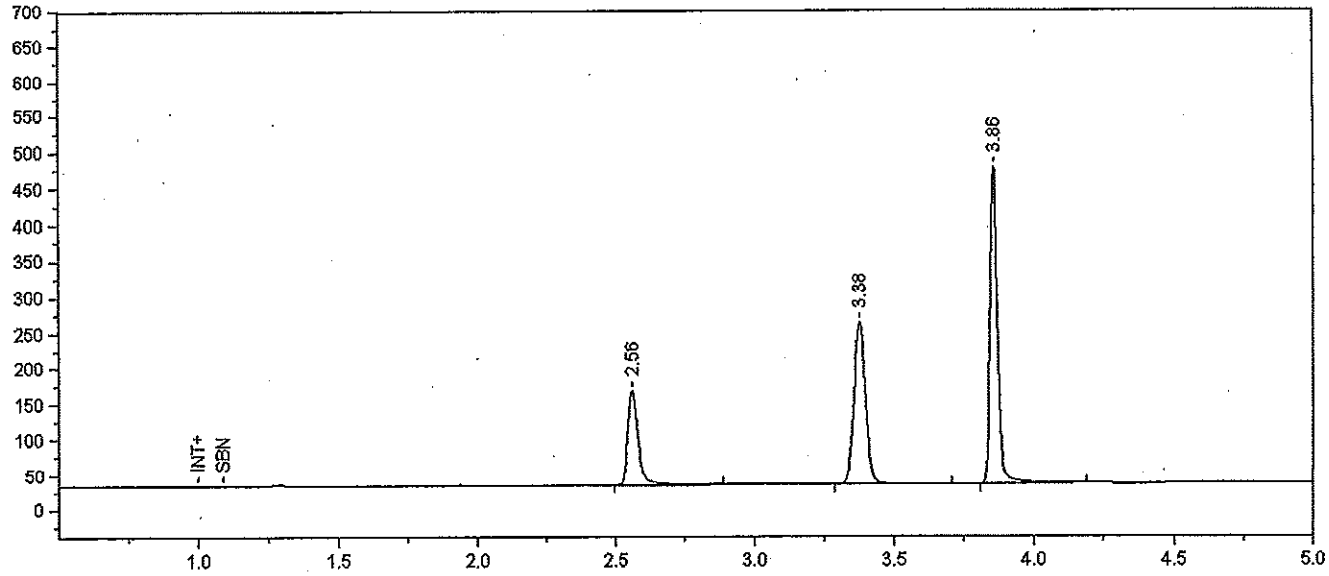
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	1.81	Acetaldehyde	292563	0.0510	0.0416
2	1.92	Methanol	253203	0.1280	0.1045
3	2.89	Acetone	1164807	0.0600	0.0490
4	3.04	Isopropanol	737403	0.0810	0.0661
5	3.37	t-Butanol	675137	1.0048	0.8201
6	3.85	n-Propanol	830519	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/14/2012
Today's Time = 8:09:20 AM
Bound File Name = Sim021312.0003.RAW
Sample Name = Std A
Date Taken = 2/13/2012 9:55:26 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 232

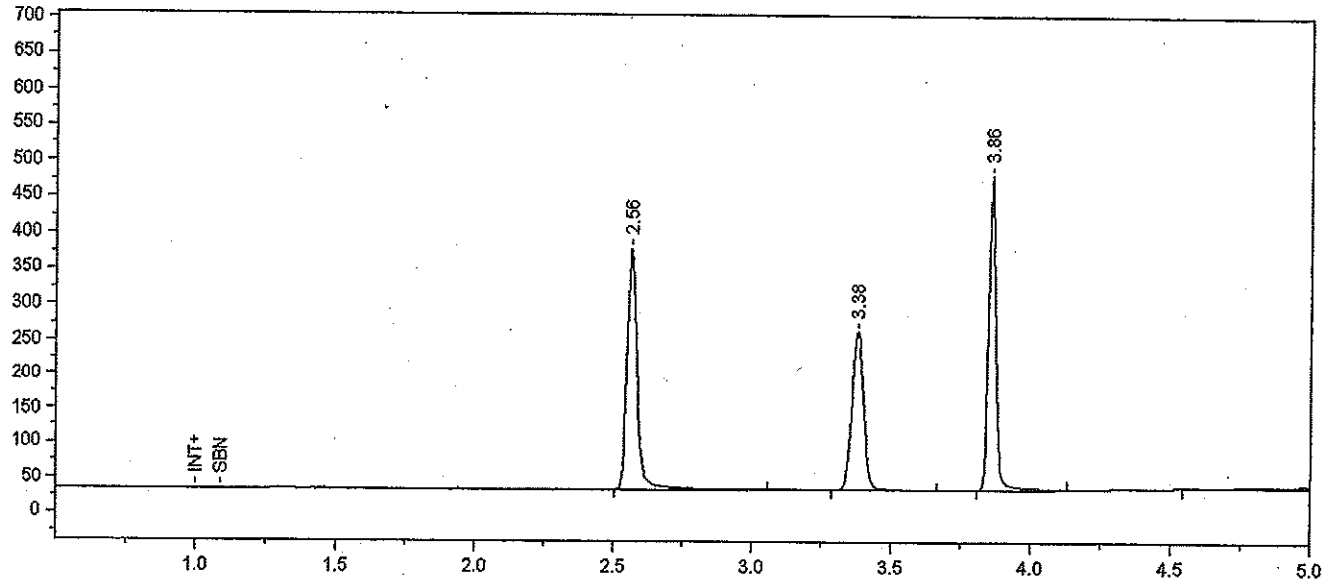
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.57	Ethanol	97731	0.0222	0.0181
2	3.38	t-Butanol	673796	0.9995	0.8158
3	3.86	n-Propanol	833244	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/14/2012 Today's Time = 8:09:25 AM
Bound File Name = Sim021312.0004.RAW
Sample Name = Std B
Date Taken = 2/13/2012 10:10:28 AM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 232

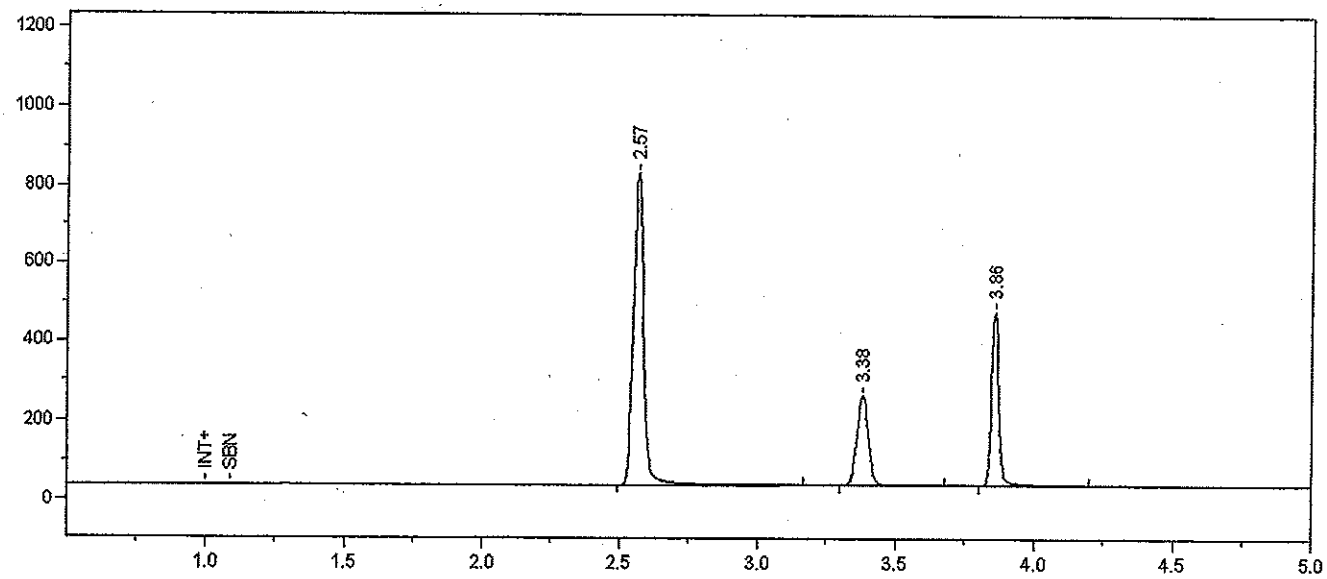
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	352425	0.0806	0.0658
2	3.38	t-Butanol	670341	1.0016	0.8175
3	3.86	n-Propanol	827247	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/14/2012
Today's Time = 8:09:30 AM
Bound File Name = Sim021312.0005.RAW
Sample Name = Std C
Date Taken = 2/13/2012 10:25:29 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 232

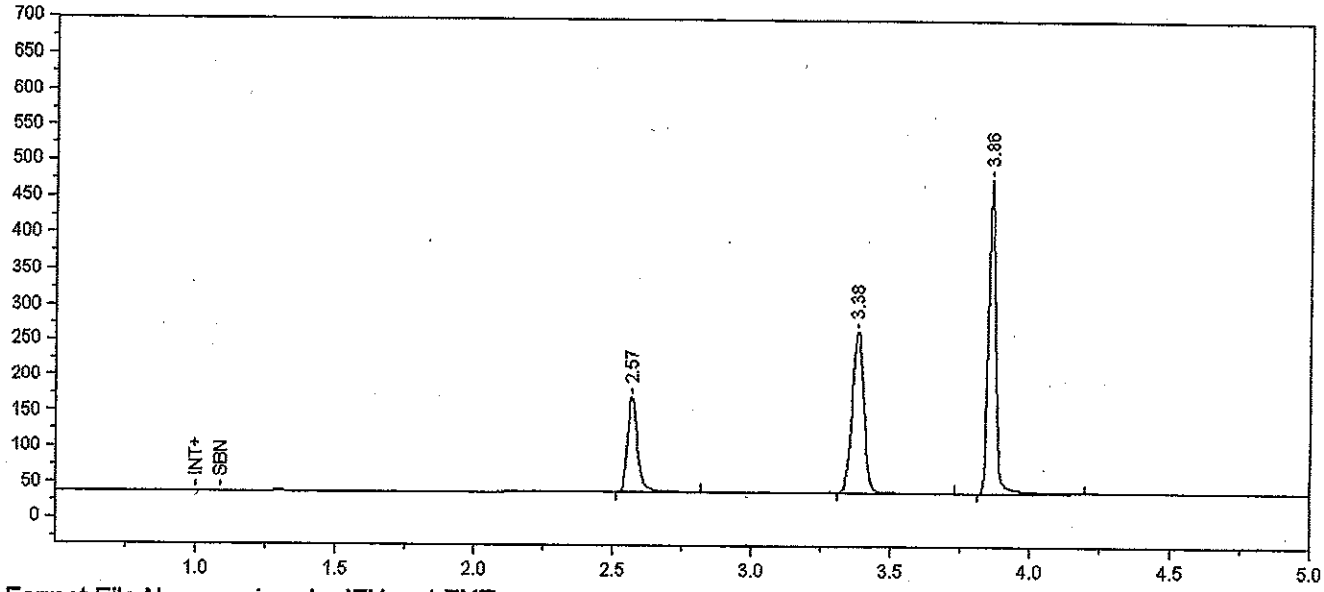
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	888664	0.2040	0.1665
2	3.38	t-Butanol	669511	1.0035	0.8191
3	3.86	n-Propanol	824647	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/14/2012
Today's Time = 8:09:35 AM
Bound File Name = Sim021312.0006.RAW
Sample Name = Std D
Date Taken = 2/13/2012 10:40:28 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 232

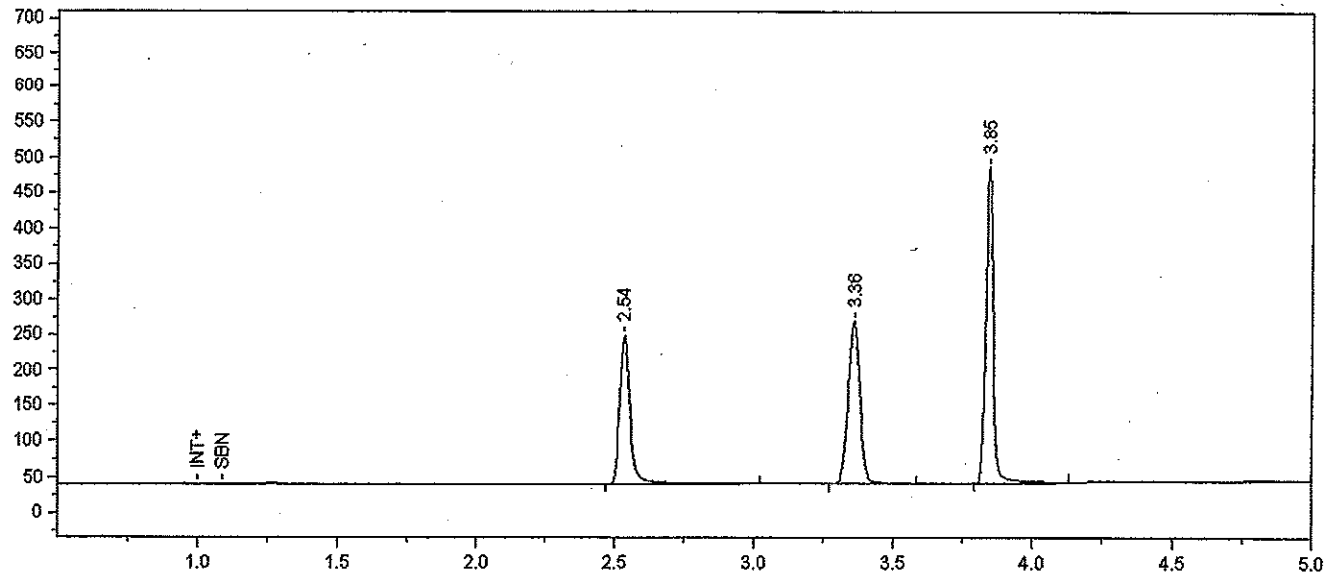
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.57	Ethanol	2029388	0.4651	0.3796
2	3.38	t-Butanol	661816	0.9905	0.8085
3	3.86	n-Propanol	825873	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/14/2012
Today's Time = 8:09:40 AM
Bound File Name = Sim021312.0007.RAW
Sample Name = AQ QC
Date Taken = 2/13/2012 10:55:35 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 232

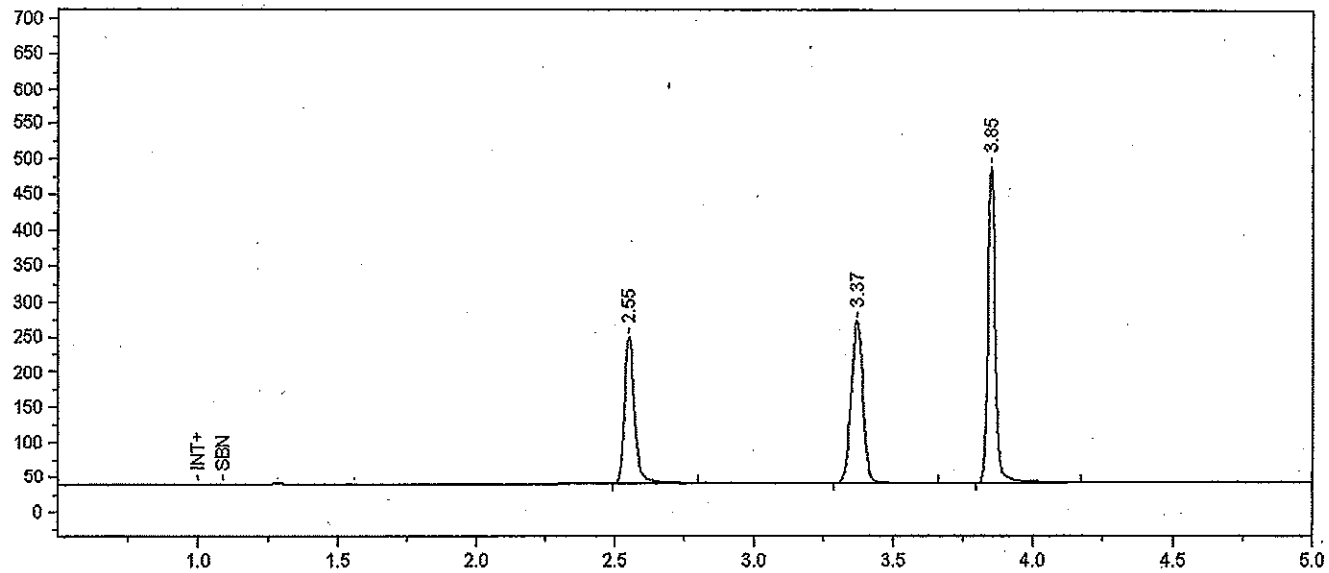
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.57	Ethanol	345606	0.0795	0.0649
2	3.38	t-Butanol	663882	0.9971	0.8139
3	3.86	n-Propanol	822959	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/14/2012 Today's Time = 8:09:44 AM
Bound File Name = Sim021312.0008.RAW
Sample Name = 0.1 Sim Sol - SRM
Date Taken = 2/13/2012 2:52:32 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 232

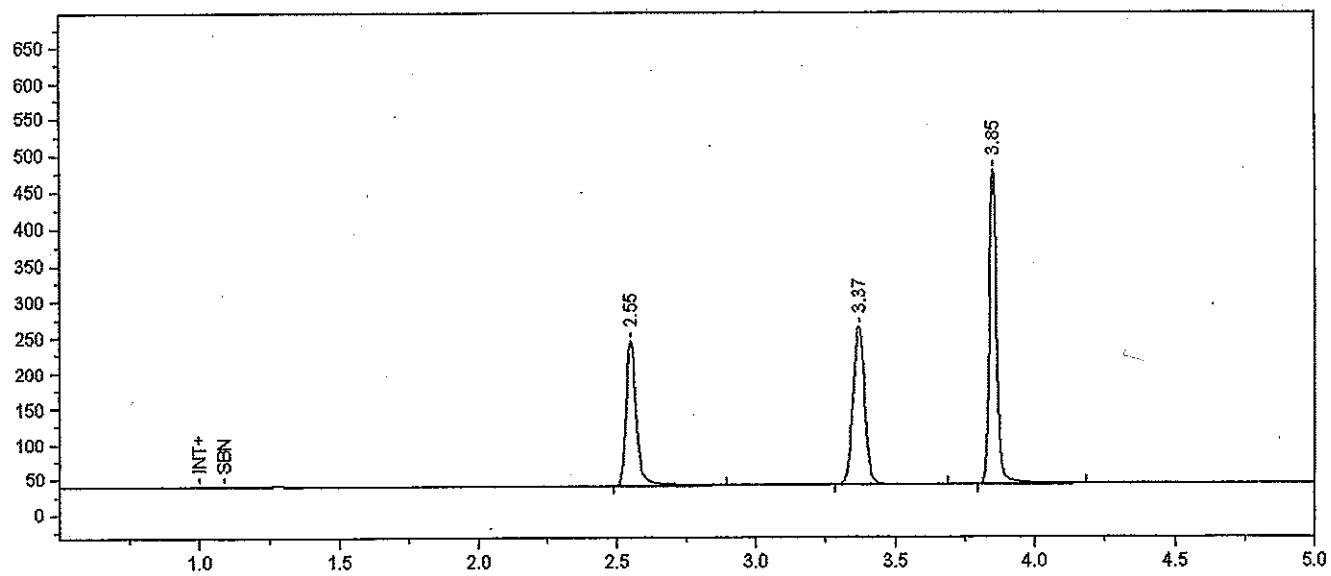
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.54	Ethanol	546575	0.1236	0.1009
2	3.36	t-Butanol	672296	0.9929	0.8104
3	3.85	n-Propanol	836937	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/14/2012 Today's Time = 8:09:49 AM
Bound File Name = Sim021312.0009.RAW
Sample Name = 0.1 Sim Sol - SRM
Date Taken = 2/13/2012 3:07:21 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 232

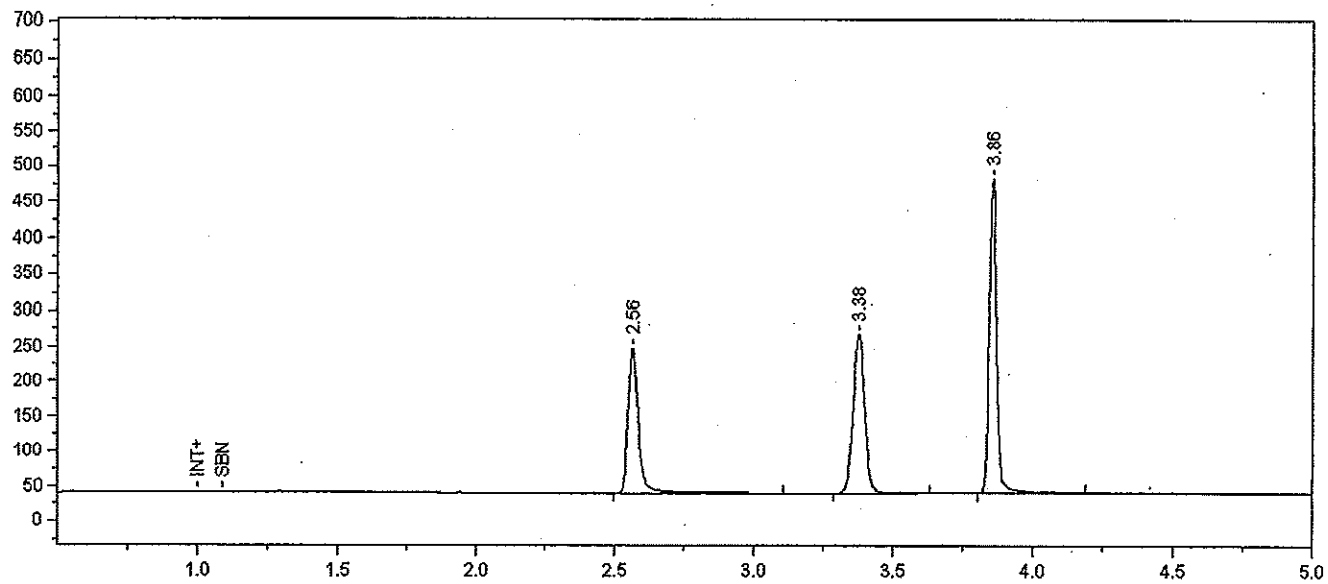
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.55	Ethanol	537427	0.1209	0.0987
2	3.37	t-Butanol	676404	0.9936	0.8110
3	3.85	n-Propanol	841430	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/14/2012
Today's Time = 8:09:54 AM
Bound File Name = Sim021312.0010.RAW
Sample Name = 0.1 Sim Sol - SRM
Date Taken = 2/13/2012 3:22:22 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 232

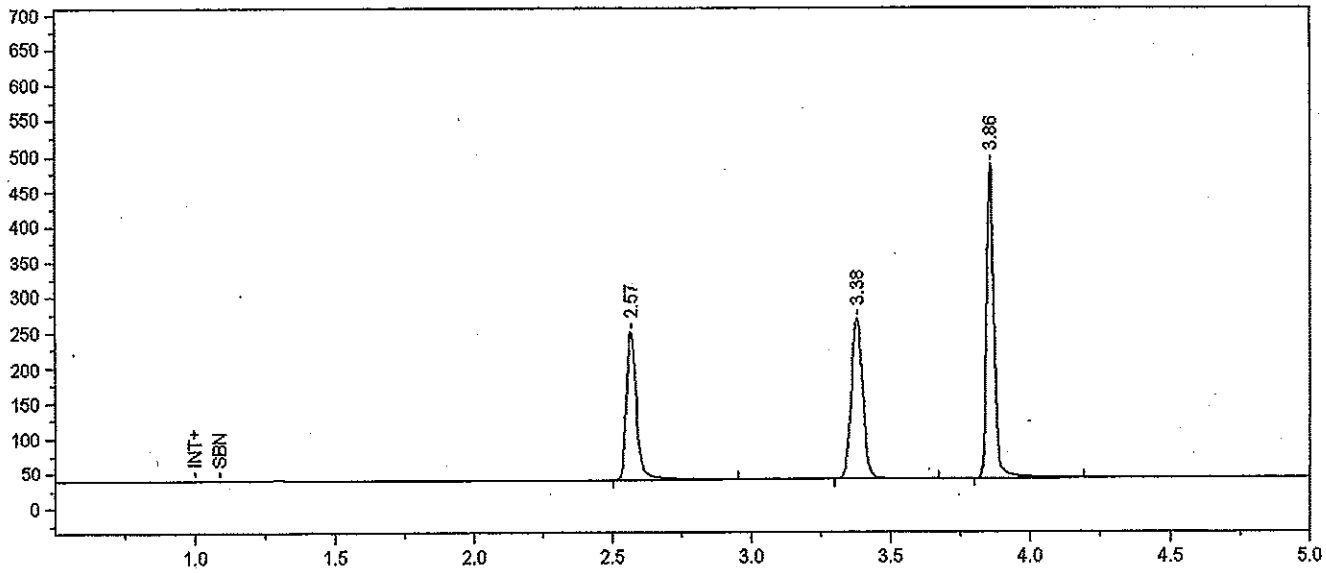
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.55	Ethanol	531272	0.1227	0.1001
2	3.37	t-Butanol	655601	0.9886	0.8069
3	3.85	n-Propanol	819683	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/14/2012
Today's Time = 8:09:59 AM
Bound File Name = Sim021312.0011.RAW
Sample Name = 0.1 Sim Sol - SRM
Date Taken = 2/13/2012 3:37:23 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 232

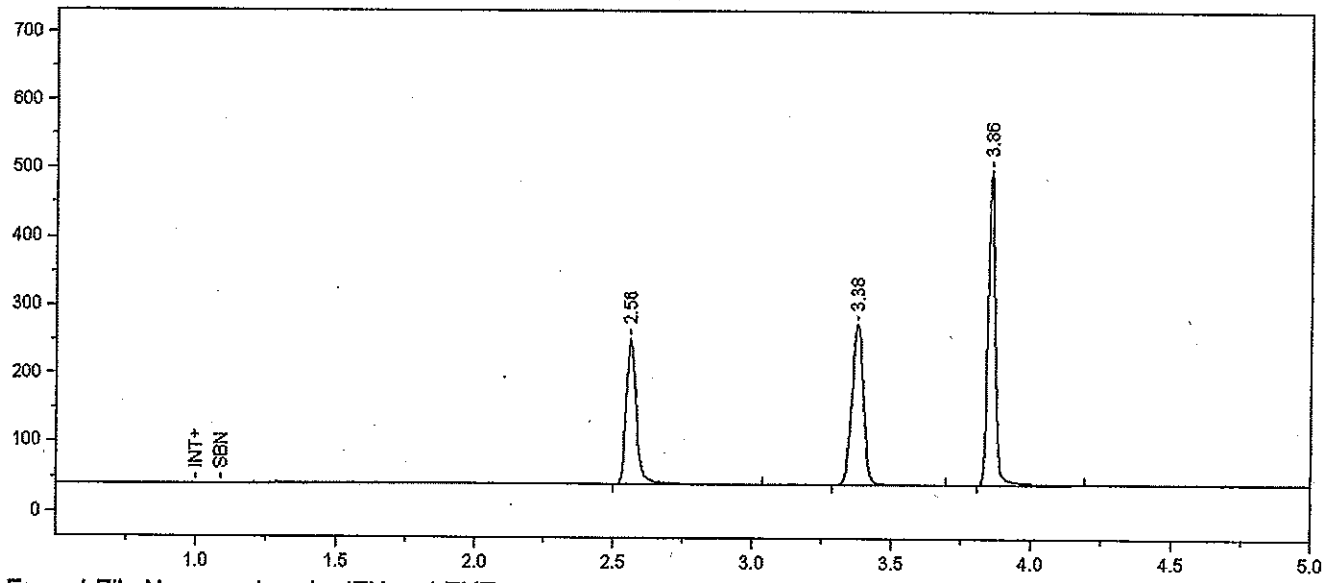
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	540956	0.1240	0.1012
2	3.38	t-Butanol	660470	0.9884	0.8067
3	3.86	n-Propanol	825983	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/14/2012 Today's Time = 8:10:04 AM
Bound File Name = Sim021312.0012.RAW
Sample Name = 0.1 Sim Sol - SRM
Date Taken = 2/13/2012 3:52:24 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 232

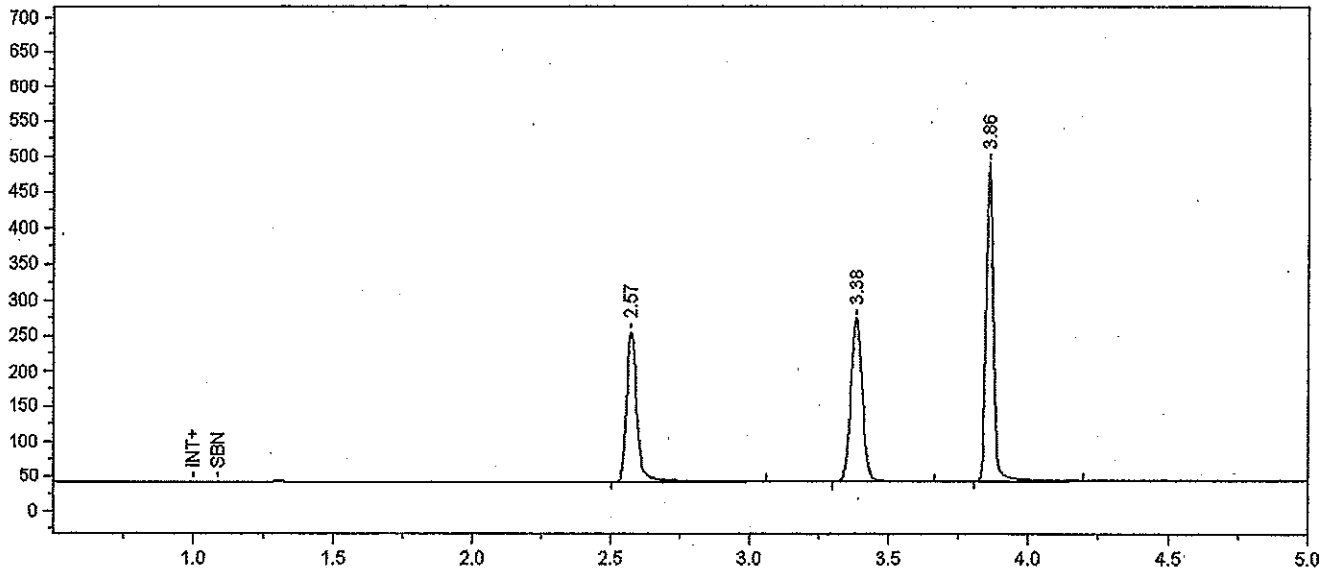
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.57	Ethanol	539735	0.1230	0.1004
2	3.38	t-Butanol	665271	0.9897	0.8078
3	3.86	n-Propanol	830888	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/14/2012
Today's Time = 8:10:09 AM
Bound File Name = Sim021312.0013.RAW
Sample Name = 0.1 Sim Sol - SRM
Date Taken = 2/13/2012 4:07:24 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 232

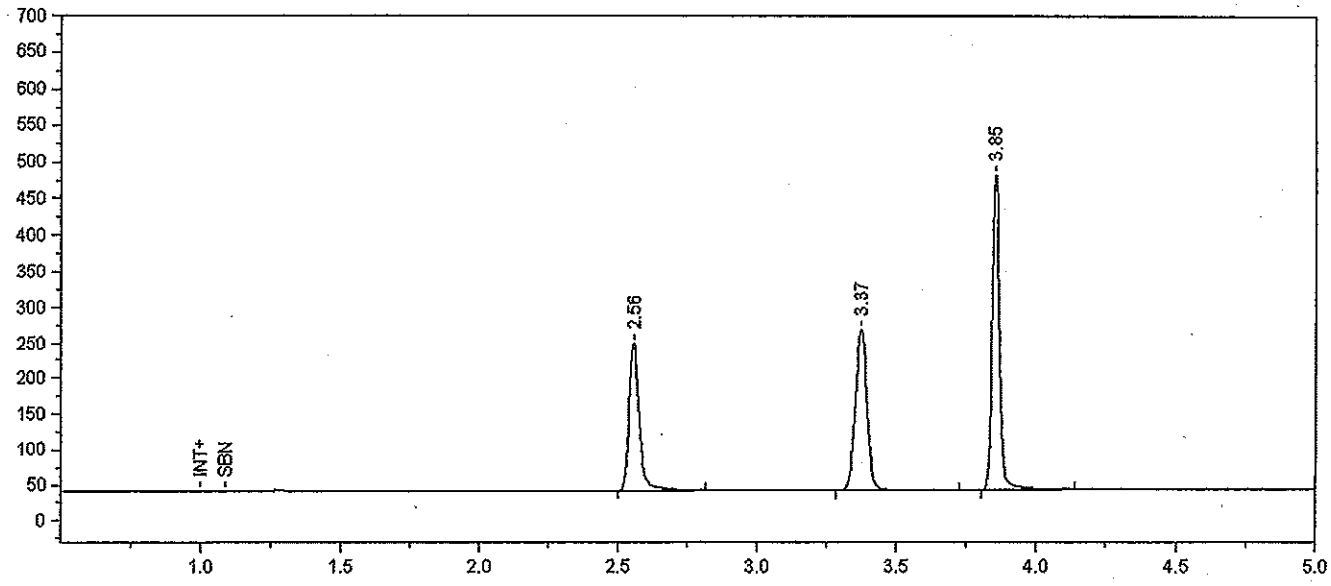
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	555420	0.1235	0.1008
2	3.38	t-Butanol	684351	0.9940	0.8113
3	3.86	n-Propanol	850999	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/14/2012
Today's Time = 8:10:14 AM
Bound File Name = Sim021312.0014.RAW
Sample Name = 0.1 Sim Sol - SRM
Date Taken = 2/13/2012 4:22:31 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 232

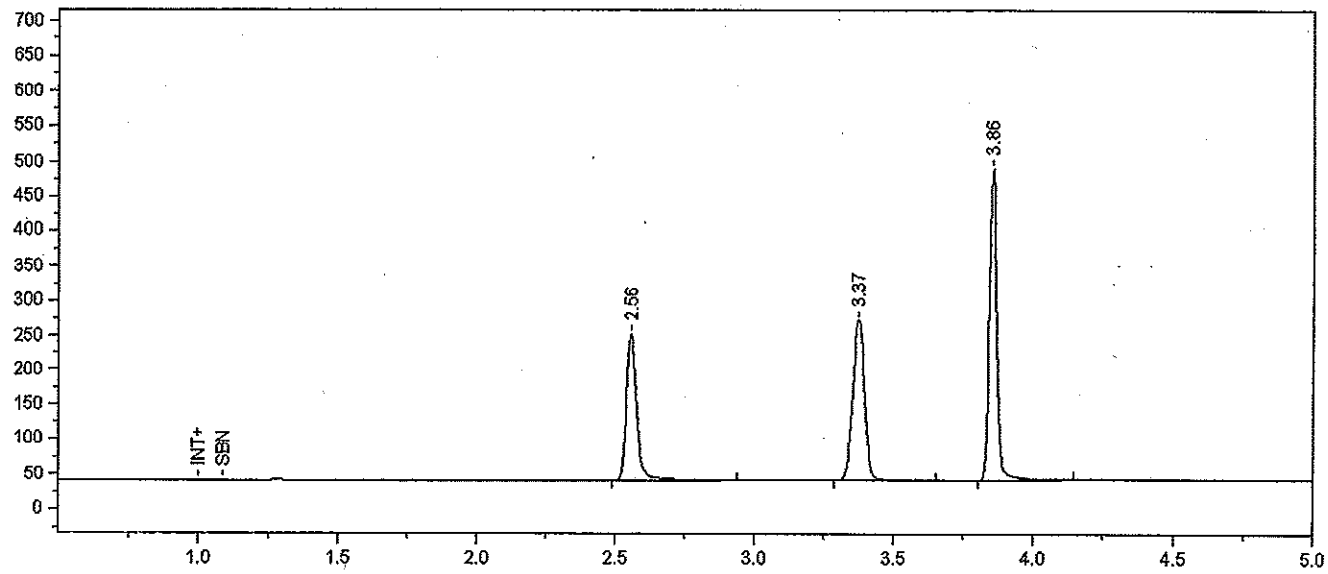
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.57	Ethanol	549692	0.1236	0.1009
2	3.38	t-Butanol	677527	0.9949	0.8120
3	3.86	n-Propanol	841764	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/14/2012
Today's Time = 8:10:18 AM
Bound File Name = Sim021312.0015.RAW
Sample Name = 0.1 Sim Sol - ALB
Date Taken = 2/13/2012 4:35:03 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 232

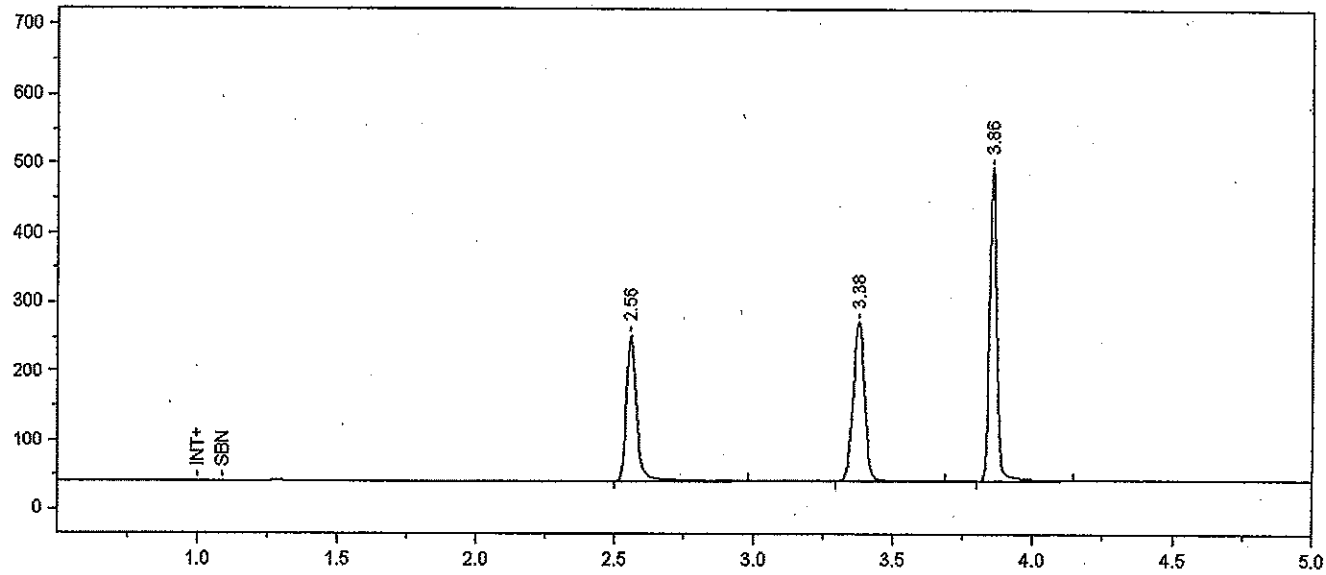
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	529626	0.1219	0.0995
2	3.37	t-Butanol	664794	0.9994	0.8157
3	3.85	n-Propanol	822244	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/14/2012
Today's Time = 8:10:23 AM
Bound File Name = Sim021312.0016.RAW
Sample Name = 0.1 Sim Sol - ALB
Date Taken = 2/13/2012 4:52:28 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 232

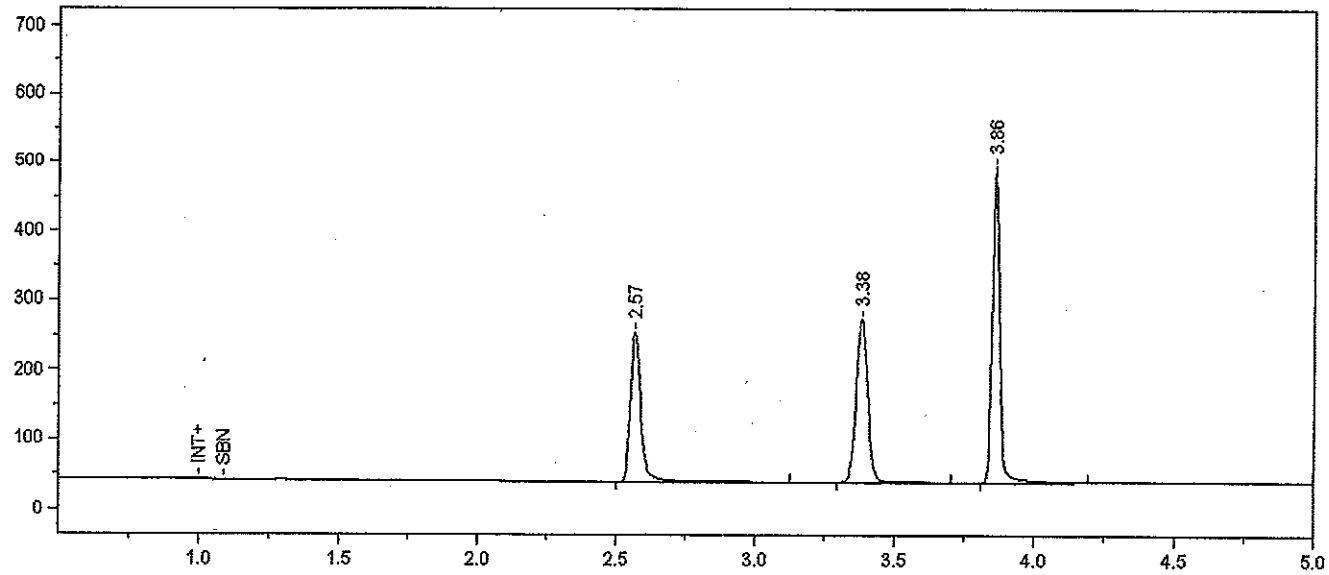
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	546673	0.1230	0.1004
2	3.37	t-Butanol	680305	0.9995	0.8158
3	3.86	n-Propanol	841313	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/14/2012
Today's Time = 8:10:28 AM
Bound File Name = Sim021312.0017.RAW
Sample Name = 0.1 Sim Sol - ALB
Date Taken = 2/13/2012 5:07:29 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 232

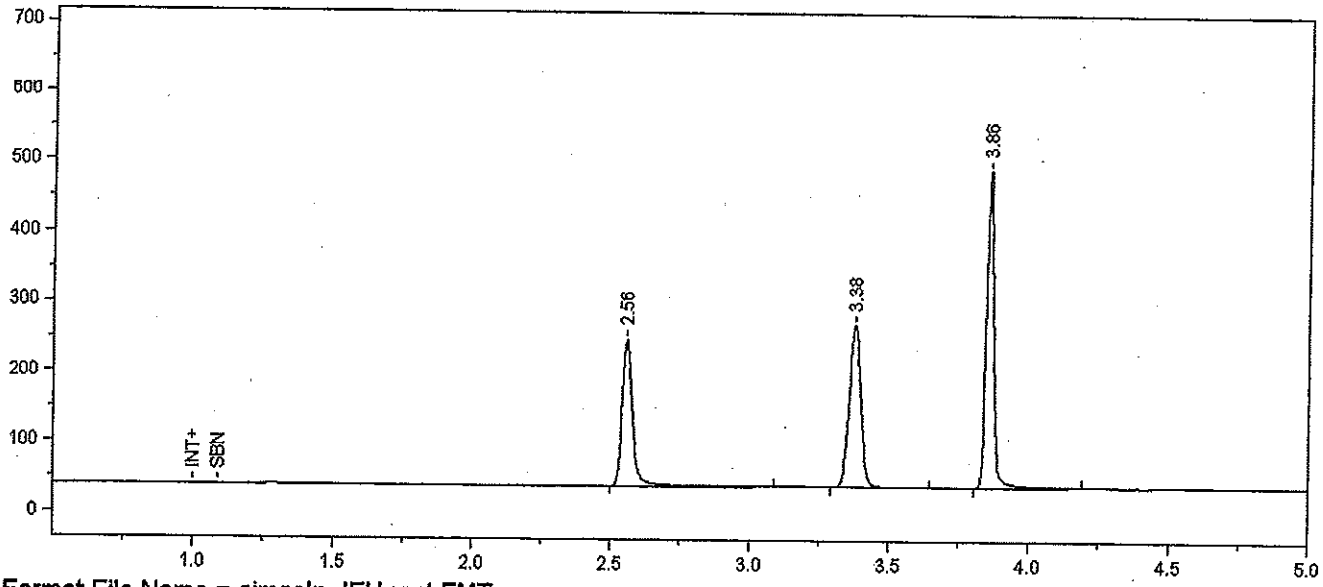
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	550157	0.1239	0.1011
2	3.38	t-Butanol	677209	0.9960	0.8130
3	3.86	n-Propanol	840400	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/14/2012
Today's Time = 8:10:33 AM
Bound File Name = Sim021312.0018.RAW
Sample Name = 0.1 Sim Sol - ALB
Date Taken = 2/13/2012 5:22:30 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 232

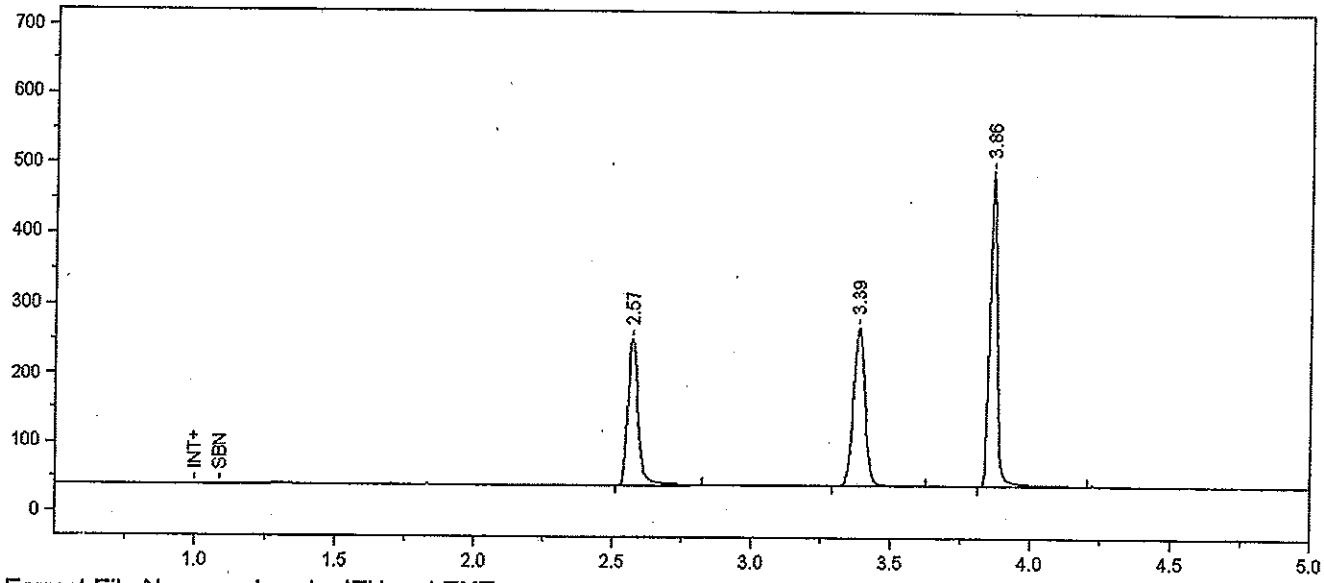
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.57	Ethanol	560248	0.1243	0.1014
2	3.38	t-Butanol	684812	0.9921	0.8097
3	3.86	n-Propanol	853220	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/14/2012
Today's Time = 8:10:38 AM
Bound File Name = Sim021312.0019.RAW
Sample Name = 0.1 Sim Sol - ALB
Date Taken = 2/13/2012 5:37:31 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 232

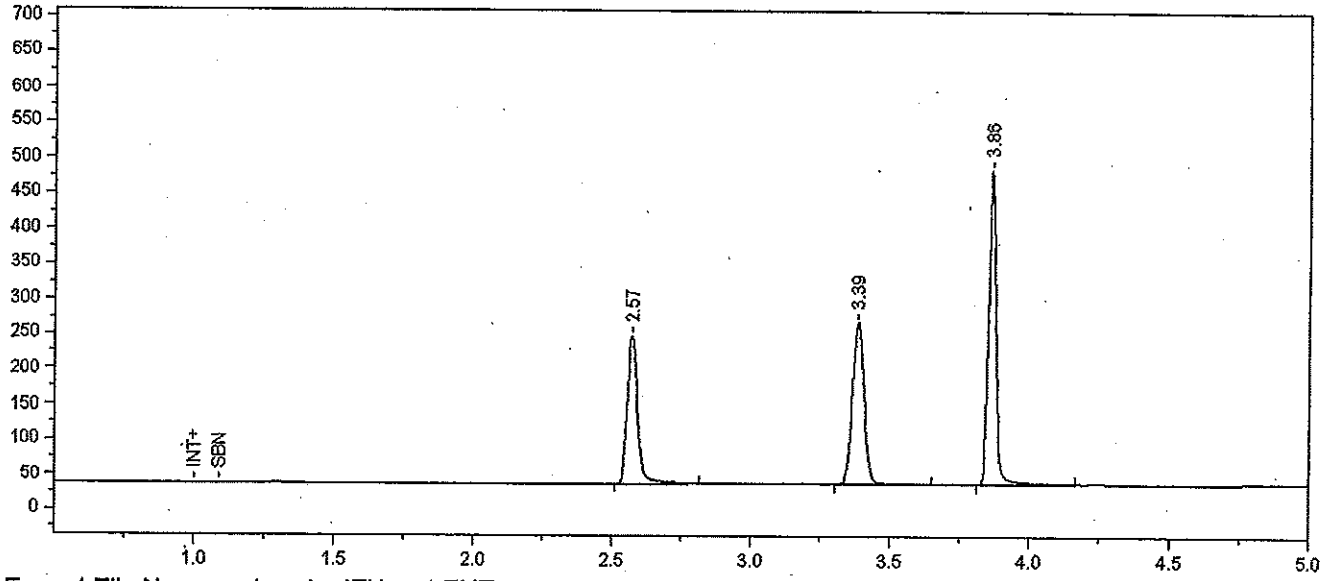
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.56	Ethanol	549974	0.1226	0.1001
2	3.38	t-Butanol	680691	0.9911	0.8090
3	3.86	n-Propanol	848890	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/14/2012
Today's Time = 8:10:43 AM
Bound File Name = Sim021312.0020.RAW
Sample Name = 0.1 Sim Sol - ALB
Date Taken = 2/13/2012 5:52:34 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 232

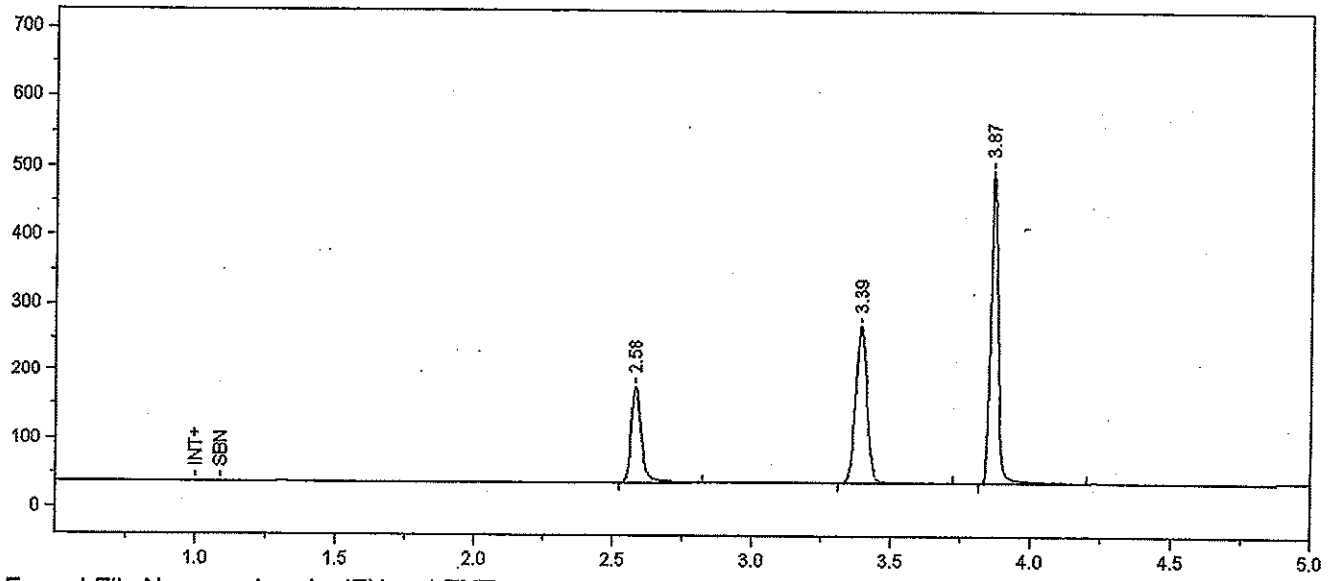
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.57	Ethanol	539418	0.1213	0.0990
2	3.39	t-Butanol	672724	0.9876	0.8061
3	3.86	n-Propanol	841968	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/14/2012
Today's Time = 8:10:48 AM
Bound File Name = Sim021312.0021.RAW
Sample Name = 0.1 Sim Sol - ALB
Date Taken = 2/13/2012 6:07:35 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 232

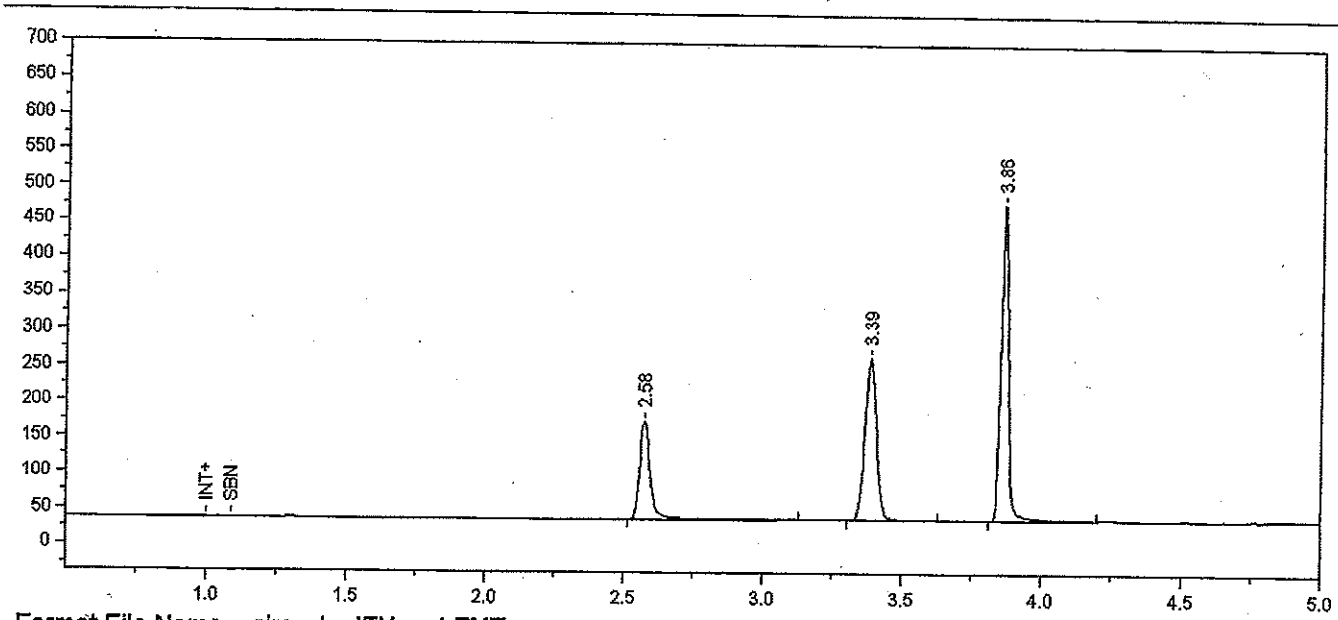
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.57	Ethanol	536540	0.1215	0.0992
2	3.39	t-Butanol	673824	0.9964	0.8132
3	3.86	n-Propanol	835916	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/14/2012
Today's Time = 8:10:52 AM
Bound File Name = Sim021312.0022.RAW
Sample Name = CCS B
Date Taken = 2/13/2012 6:22:36 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 232

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.58	Ethanol	359813	0.0802	0.0654
2	3.39	t-Butanol	679244	0.9883	0.8066
3	3.87	n-Propanol	849551	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 2/14/2012
Today's Time = 8:10:57 AM
Bound File Name = Sim021312.0023.RAW
Sample Name = CCS B
Date Taken = 2/13/2012 6:37:37 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 232

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.58	Ethanol	360596	0.0826	0.0674
2	3.39	t-Butanol	660024	0.9869	0.8055
3	3.86	n-Propanol	826622	1.0000	0.8162